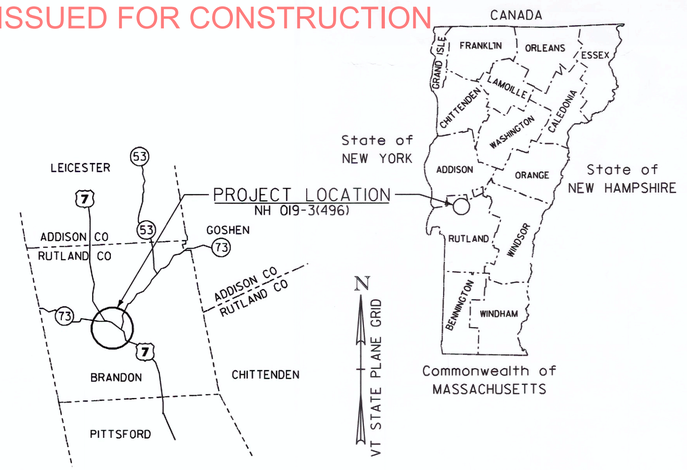
ISSUED FOR CONSTRUCTION

U.S. 7 FROM	BEGIN PROJECT TO VT 73 EAST	VT 73 EAST TO VT 73 WEST	VT 73 WEST TO END PROJECT
2005 ADT	9,000	11,200	8,500
2025 ADT	12,200	15,300	11,500
2025 ADTT	2,100	2,200	1,900
2025 DHV	1,300	1,600	1,200
% D	53% NB	53% NB	53% SB
2025 %T	16%	15%	14%
20 YR ESALS	10,681,000	11,061,000	8,925,000
40 YR ESALS	27,990,000	30,337,000	23,447,000
DESIGN SPEED = 50 KM/HR (30 MPH) POSTED SPEED = 40 KM/HR (25 MPH)			

BITUMINOUS CONCRETE PAVEMENT SUPERPAVE MIXTURE DESIGN CRITERIA	
DESIGN LIFE ESAL'S (DESIGN LANE)	5,862,300
DESIGN NUMBER OF GYRATIONS	80
PERFORMANCE GRADED ASPHALT BINDER	SEE SECTION 490 GENERAL SPECIAL PROVISIONS

PROPOSED IMPROVEMENT
TOWN OF BRANDON
COUNTY OF RUTLAND
US ROUTE 7 (PRINCIPAL ARTERIAL)

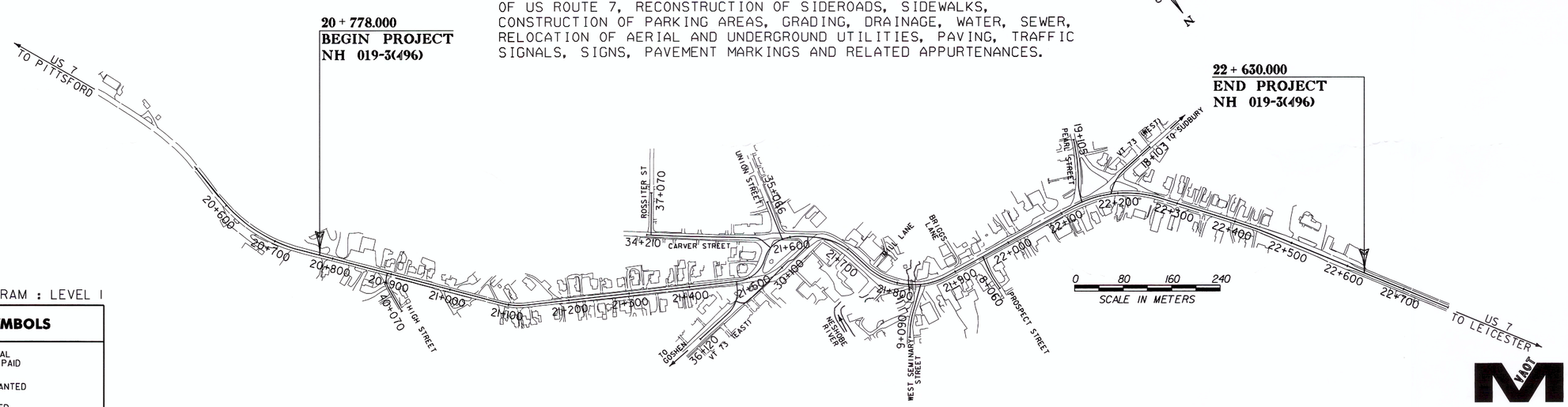


PROJECT LOCATION:
BEGINNING AT A POINT ON US ROUTE 7 APPROXIMATELY 5.373 KM NORTHERLY OF THE PITTSFORD/BRANDON TOWN LINE AND EXTENDING NORTHERLY THROUGH BRANDON VILLAGE 1.852 KM TO A POINT JUST NORTH OF THE VERMONT ROUTE 73 (WEST) INTERSECTION WITH US ROUTE 7.

LENGTH OF ROADWAY	1852.00 METERS
LENGTH OF PROJECT	1852.00 METERS

PROJECT DESCRIPTION:
WORK TO BE PERFORMED INCLUDES THE REMOVAL AND DISPOSAL OF THE CONCRETE ROAD, WIDENING AND FULL DEPTH RECONSTRUCTION OF US ROUTE 7, RECONSTRUCTION OF SIDEROADS, SIDEWALKS, CONSTRUCTION OF PARKING AREAS, GRADING, DRAINAGE, WATER, SEWER, RELOCATION OF AERIAL AND UNDERGROUND UTILITIES, PAVING, TRAFFIC SIGNALS, SIGNS, PAVEMENT MARKINGS AND RELATED APPURTENANCES.

VT STATE PLANE GRID N



QUALITY ASSURANCE PROGRAM : LEVEL I

CONVENTIONAL SYMBOLS

- DENOTES TREE OR STUMP REMOVAL (DASHED SIGNIFIES WOODS TREES PAID AS CLEARING/GRUBBING)
- DENOTES TREES TO BE TRANSPLANTED
- DENOTES TREES TO BE PROTECTED DURING CONSTRUCTION

COUNTY LINE
TOWN LINE
FENCE LINE
STONE WALL
TRAVELED WAY
GUARD RAIL
SURVEY LINE
CULVERT
POWER POLE
TELEPHONE POLE
TREES
EXISTING R.O.W.
PROPERTY LINE
R.O.W. TAKING LINE
SLOPE RIGHTS SR SR SR
TOP OF CUT
TOE OF SLOPE
(DASHED SLOPE LINES SIGNIFY TEMPORARY SLOPE LIMITS FOR TRAFFIC CONTROL)

SURVEYED BY : VTRANS
SURVEYED DATE : 5-99 (INITIAL) UPDATED 2003-2005

DATUM
VERTICAL NAVD 88
HORIZONTAL NAD 83/92

CONSULTING ENGINEERS

STATE OF VERMONT CHRISTOPHER R. BEAN No. 5529 REGISTERED PROFESSIONAL ENGINEER

STATE OF VERMONT ROBERT F. MECHKO 6977 PROFESSIONAL ENGINEER
(SHEETS 323-345)

STATE OF VERMONT JOHN P. BYATT NO. 8478 Structural LICENSED PROFESSIONAL ENGINEER
(SHEETS 468-473)

CONSTRUCTION IS TO BE CARRIED ON IN ACCORDANCE WITH THESE PLANS AND THE STANDARD SPECIFICATIONS FOR CONSTRUCTION DATED 2011, APPROVED BY THE FEDERAL HIGHWAY ADMINISTRATION ON JULY 20, 2011 FOR USE ON THIS PROJECT, INCLUDING ALL SUBSEQUENT REVISIONS AND SUCH REVISED SPECIFICATIONS AND SPECIAL PROVISIONS AS ARE INCORPORATED IN THESE PLANS.

VAOT Metric
UNLESS NOTED OTHERWISE
STATIONS ARE IN KILOMETERS
ELEVATIONS ARE IN METERS
DIMENSIONS ARE IN MILLIMETERS

TOWN OF BRANDON
APPROVED _____ DATE 2/23/17

PROJECT NAME : BRANDON
PROJECT NUMBER : NH 019-3(496)

SHEET 1 OF 601 SHEETS

ISSUED FOR CONSTRUCTION

VAOT Metric

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591-592	CROSS SECTIONS - WEST SEMINARY STREET
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STRUCTURES DETAIL SHEETS

SD-501.00	CONCRETE DETAILS AND NOTES

INDEX OF STANDARD PLANS

STD	DATE	DESCRIPTION
B-5	06/01/1994	EMBANKMENT ON EARTH SLOPE, EMBANKMENT ON ROCK SLOPE, MUCK EXCAVATION, TYPICAL SLOPE ROUNDING
B-71	07/08/2005	STANDARDS FOR RESIDENTIAL AND COMMERCIAL DRIVES
C-3A	03/10/2008	SIDEWALK RAMPS
C-3B	03/10/2008	SIDEWALK RAMPS AND MEDIAN ISLANDS
C-10	02/11/2008	CURBING
D-3	06/01/1994	TREATED GUTTERS
D-4	08/13/2007	CORRUGATED PIPE END SECTION, ARCH END SECTION, AND ELBOW, GRANULAR MATERIAL AT METAL CULVERT LOCATIONS, TYPICAL WATERFALL FOR CULVERTS
D-6	06/01/1994	REINFORCED CONCRETE DROP INLET WITH GRATE FOR USE IN DITCHES
D-9	06/01/1994	REINFORCED CONCRETE DROP INLET WITH VERTICAL CURB, REINFORCED CONCRETE DROP INLET THROAT ADAPTER
D-10	06/01/1994	TOP FOR A DROP INLET WITH BITUMINOUS CONCRETE CURB, TOP FOR A DROP INLET GRANITE SLOPE EDGING
D-11	06/01/1994	STEEL GRATE, CAST IRON GRATE TYPE A, CAST IRON COVER
D-15	06/01/1994	PRECAST REINFORCED CONCRETE CATCH BASIN W/CAST IRON GRATE, PRECAST REINFORCED CONCRETE MANHOLE W/ CAST IRON COVER, CAST IRON GRATE WITH FRAME, TYPE D, CAST IRON GRATE WITH FRAME, TYPE E
D-16	06/01/1994	PRECAST REINFORCED CONCRETE CURB DROP INLET WITH CAST IRON GRATE, CAST IRON GRATE, TYPE B, CAST IRON GRATE, TYPE C, UNDERDRAIN RISER, REINFORCED CONCRETE PIPE END SECTION, ENERGY DISSIPATOR FOR CULVERT
D-30	08/13/2007	UNDERDRAIN CONSTRUCTION DETAILS
D-33	03/12/2007	REINFORCED CONCRETE STRAIGHT HEADWALL
E-121	08/08/1995	STANDARD SIGN PLACEMENT CONVENTIONAL ROAD
E-136B	08/08/1995	STATE ROUTE MARKER SIGN DETAILS
E-145A	12/23/1994	REGULATORY SIGN DETAILS - LANE USE CONTROL SIGNS TWO AND FOUR LANE APPROACHES
E-163	5/20/1999	TUBULAR STEEL SIGN POST
E-170	11/04/1999	TRAFFIC CONTROL SIGNALS PEDESTAL POST MOUNTED
E-171A	08/09/1995	TRAFFIC CONTROL SIGNALS GENERAL NOTES & DETAILS
E-171B	08/09/1995	TRAFFIC CONTROL SIGNALS MISC. DETAILS
E-171C	08/09/1995	TRAFFIC CONTROL SIGNALS CANTILEVER MOUNTING DETAILS PED. PUSH BUTTON ACCESSIBILITY DETAIL
E-191	02/01/1999	PAVEMENT MARKING DETAILS
E-192	10/12/2000	PAVEMENT MARKING DETAILS
E-193	08/18/1995	PAVEMENT MARKING DETAILS
F-1	06/01/1994	WOVEN WIRE FENCE WITH WOOD POSTS, WOVEN WIRE FENCE WITH STEEL POSTS, WOOD BRACE FOR WOVEN WIRE FENCE STEEL BRACE FOR WOVEN WIRE FENCE, DRIVE GATE FOR WOVEN WIRE FENCE, WALK GATE FOR WOVEN WIRE FENCE
G-1	11/10/2015	STEEL BEAM GUARDRAIL WITH STEEL POSTS, STEEL BEAM GUARDRAIL WITH WOOD POSTS
G-1bM	06/13/1997	BOX BEAM GUARD RAIL
G-1d	02/10/2014	STEEL BEAM GUARDRAIL APPROACH END TERMINAL, STEEL BEAM GUARDRAIL TRAILING END TERMINAL, ANCHOR FOR STEEL BEAM GUARDRAIL, STEEL BEAM MEDIAN BARRIER
G-4	06/01/1994	PLANK RAIL, GUIDE POSTS, WOOD MARKER POSTS, STEEL MARKER POSTS
J-2	06/01/1994	STANDARD CONCRETE STEPS METAL HAND RAILING
S-364A	02/02/2017	BRIDGE RAILING, GALVANIZED 3 RAIL BOX BEAM
S-364B	02/02/2017	GUARDRAIL APPROACH SECTION, GALVANIZED 3 RAIL BOX BEAM
S-364C	02/02/2017	GUARDRAIL APPROACH SECTION, GALVANIZED 3 RAIL BOX BEAM
S-364D	02/02/2017	GUARDRAIL APPROACH SECTION, GALVANIZED 3 RAIL BOX BEAM
T-1	04/25/2016	TRAFFIC CONTROL GENERAL NOTES
T-2	04/25/2016	TRAFFIC SIGN GENERAL NOTES
T-10	08/06/2012	CONVENTIONAL ROADS CONSTRUCTION APPROACH SIGNING
T-28	08/06/2012	CONSTRUCTION SIGN DETAILS
T-30	08/06/2012	CONSTRUCTION SIGN DETAILS
T-35	08/06/2012	CONSTRUCTION ZONE LONGITUDINAL DROP-OFFS
T-36	08/06/2012	CONSTRUCTION ZONE LONGITUDINAL DROP-OFFS FOR PAVING
T-44	04/09/2014	MILEMARKER DETAILS STATE AND TOWN HIGHWAYS
T-45	01/02/2013	SQUARE TUBE SIGN POST AND ANCHOR
T-56	10/26/2015	STANDARD SIGN PLACEMENT
T-70	04/25/2016	VERMONT REGULATORY SIGN DETAILS
T-81	02/12/2016	VERMONT WARNING SIGN DETAILS
T-92	10/26/2015	ROUTE MARKER FRAME DETAILS
T-133	07/25/2016	LIGHT POLE FOUNDATION DETAILS

CLD 02-0448 MODEL:1

INDEX OF SHEETS

PROJECT NAME: BRANDON
PROJECT NUMBER: NH 019-3(496)

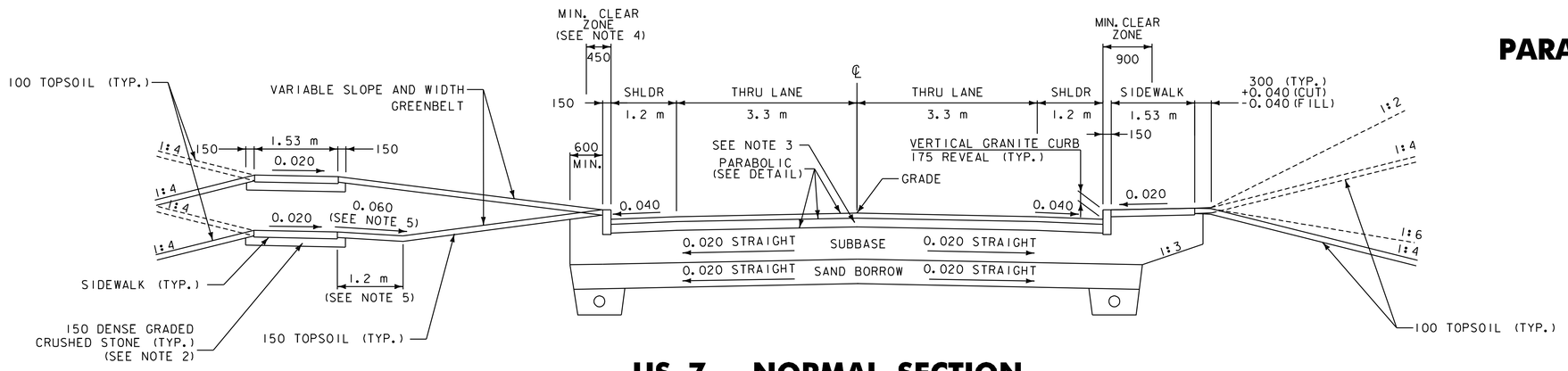
FILE NAME: zb008s6-index.dgn
PROJECT LEADER: C. BEAN
DESIGNED BY: M. HALEY

PLOT DATE: 2/23/2017
DRAWN BY: M. HALEY
CHECKED BY: D. MUNRO

ISSUED FOR CONSTRUCTION

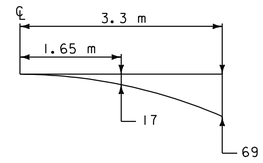
MATERIAL ITEM	THICKNESS TOLERANCE
PAVEMENT (TOTAL DEPTH ALL LAYERS)	+/- 5
SUBBASE	+/- 30
SAND BORROW	+/- 30

90 BITUMINOUS CONCRETE PAVEMENT (TYPE IIIS) (PG 70-28) (2 - 45 mm LIFTS)
160 BITUMINOUS CONCRETE PAVEMENT (TYPE IS) (PG 70-28) (2 - 80 mm LIFTS)
590 SUBBASE OF DENSE GRADED CRUSHED STONE
450 SAND BORROW



US 7 - NORMAL SECTION

NOT TO SCALE

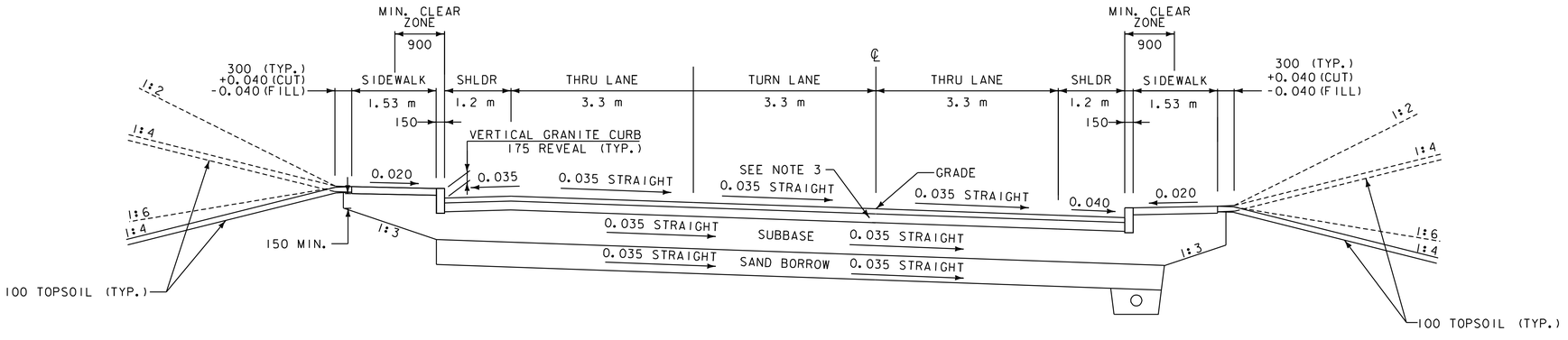


ONE 3.3 m LANE

PARABOLIC DETAIL (US 7)

NOTES:

1. FOR ALL TYPICAL SECTIONS AND DETAILS WITH REFERENCE TO TOPSOIL, REFER TO EROSION PREVENTION AND SEDIMENT CONTROL DETAILS FOR SEEDING FORMULAS AND REQUIRED TURF ESTABLISHMENT ITEMS.
2. 150 MIN. DENSE GRADED CRUSHED STONE UNDER ALL SIDEWALKS UNLESS NOTED OTHERWISE ON THE PLANS OR AS DIRECTED BY THE ENGINEER.
3. AN ESTIMATED QUANTITY OF SOLID ROCK EXCAVATION HAS BEEN INCLUDED FOR REMOVAL OF EXISTING PORTLAND CEMENT CONCRETE ROAD BED (SEE EARTHWORKS SHEETS).
4. IN CURBED AREAS, CLEAR ZONE INDICATES MINIMUM HORIZONTAL OFFSET TO OBSTRUCTIONS FROM FACE OF CURB. MINIMUM OFFSET OF 450 mm INCREASED TO 900 mm AT INTERSECTIONS AND WHERE SIDEWALK IS ADJACENT TO ROADWAY.
5. UNLESS NOTED OTHERWISE ON PLANS OR CROSS SECTIONS, PROPOSED DITCHES IN GREEN BELTS AS IDENTIFIED ON DRAINAGE PLANS SHALL BE CONSTRUCTED AT A 1.2 m OFFSET FROM INSIDE EDGE OF PROPOSED SIDEWALK.



US 7 - MAXIMUM BANKED SECTION 0.035

NOT TO SCALE

CLD 02-0448 MODEL:1

TYPICAL SECTION

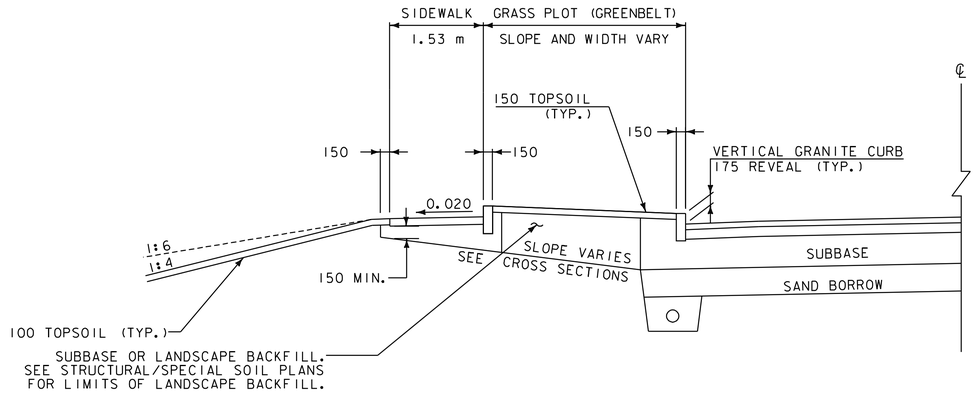
PROJECT NAME: BRANDON
PROJECT NUMBER: NH 019-3(496)

FILE NAME: zb008s6-typ.dgn
PROJECT LEADER: C. BEAN
DESIGNED BY: D. MUNRO
PLOT DATE: 2/23/2017
DRAWN BY: S. GOODWIN
CHECKED BY: P. SHEDD
SHEET 3 OF 601

ISSUED FOR CONSTRUCTION

VAOT Metric

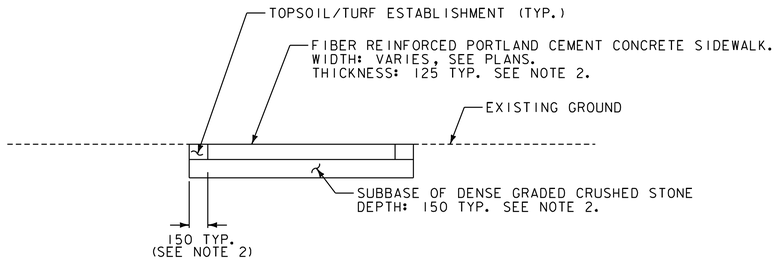
MATERIAL ITEM	THICKNESS TOLERANCE
PAVEMENT (TOTAL DEPTH ALL LAYERS)	+/- 5
SUBBASE	+/- 30
SAND BORROW	+/- 30



SPECIAL GRASS PLOT DETAIL

21+302.8 - 21+399.5 LT
21+426.6 - 21+462.0 LT

NOT TO SCALE

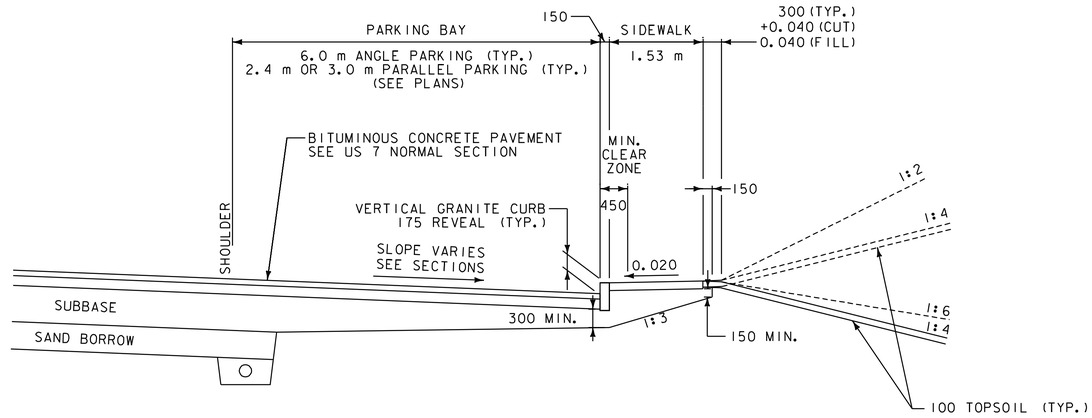


NOTES:

1. THIS DETAIL APPLIES TO AREAS ADJACENT TO EXISTING TREES TO BE PROTECTED AND WHERE ROOTS ARE ENCOUNTERED WITHIN AREA OF SIDEWALK CONSTRUCTION. CONTRACTOR SHALL NOTIFY ENGINEER WHEN THESE CONDITIONS ARE ENCOUNTERED. PROJECT CERTIFIED CONSULTING ARBORIST SHALL SPECIFY REQUIRED LIMITS OF FIBER REINFORCED SIDEWALK.
2. PROJECT CERTIFIED CONSULTING ARBORIST SHALL DETERMINE NEED FOR FIBER REINFORCED SIDEWALK, SPECIFY AMOUNT OF ROOT PRUNING IF REQUIRED, AND SPECIFY THICKNESS OF SIDEWALK AND DEPTH OF SUBBASE AT EACH LOCATION.
3. REFER TO SUBSECTION 656.10 OF THE SPECIFICATIONS AND SPECIAL PROVISIONS FOR ADDITIONAL INFORMATION REGARDING TREE PROTECTION.
4. AN ESTIMATED QUANTITY OF 900.675 SPECIAL PROVISION (FIBER REINFORCED PORTLAND CEMENT SIDEWALK, 125 mm) HAS BEEN INCLUDED FOR THIS WORK. SUBBASE, TOPSOIL AND TURF ESTABLISHMENT ITEMS WILL BE PAID FOR UNDER APPROPRIATE PAY ITEMS.

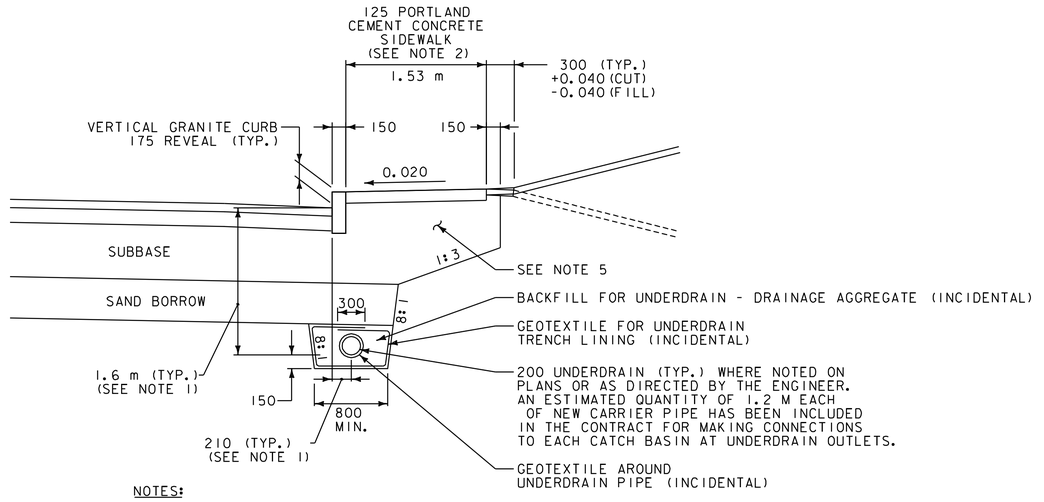
FIBER REINFORCED SIDEWALK DETAIL

NOT TO SCALE



US 7 ON-STREET PARKING DETAIL

NOT TO SCALE



NOTES:

1. UNDERDRAIN DEPTH AND OFFSET MAY VARY AS SHOWN ON THE CROSS SECTIONS OR AS DIRECTED BY THE ENGINEER.
2. 200 PORTLAND CEMENT CONCRETE SIDEWALK SHALL BE USED AT ALL COMMERCIAL DRIVES.
3. ALL SIDEWALKS SHALL HAVE A MAXIMUM OF 2% CROSS SLOPE.
4. WHEN SIDEWALK IS CONSTRUCTED ADJACENT TO CURB, ASPHALT TREATED FELT SHALL BE PLACED BETWEEN THE SIDEWALK AND CURB FOR THE FULL DEPTH OF THE SIDEWALK. ALL MATERIAL AND WORK TO INSTALL TREATED FELT SHALL BE INCIDENTAL TO THE SIDEWALK PAY ITEM.
5. SUBBASE REPLACED BY STRUCTURAL SOIL UNDER SIDEWALK AT SPECIFIC LOCATIONS AS SHOWN ON THE STRUCTURAL/ SPECIAL SOIL PLANS. SEE MISCELLANEOUS DETAILS.

UNDERDRAIN AND SIDEWALK DETAIL

NOT TO SCALE

TYPICAL SECTION

PROJECT NAME: BRANDON
PROJECT NUMBER: NH 019-3(496)

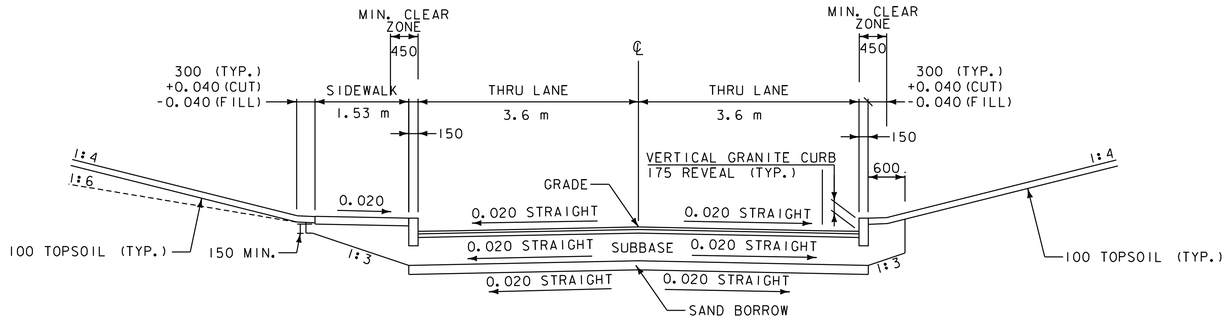
FILE NAME: zb008s6-typ.dgn
PROJECT LEADER: C. BEAN
DESIGNED BY: D. MUNRO
PLOT DATE: 2/23/2017
DRAWN BY: S. GOODWIN
CHECKED BY: P. SHEDD
SHEET 4 OF 601

CLD 02-0448 MODEL: 2

ISSUED FOR CONSTRUCTION

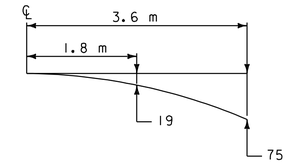
MATERIAL ITEM	THICKNESS TOLERANCE
PAVEMENT (TOTAL DEPTH ALL LAYERS)	+/- 5
SUBBASE	+/- 30
SAND BORROW	+/- 30

40 BITUMINOUS CONCRETE PAVEMENT (TYPE IVS) (PG 70-28)
60 BITUMINOUS CONCRETE PAVEMENT (TYPE IIS) (PG 70-28)
450 SUBBASE OF DENSE GRADED CRUSHED STONE
150 SAND BORROW



HIGH STREET

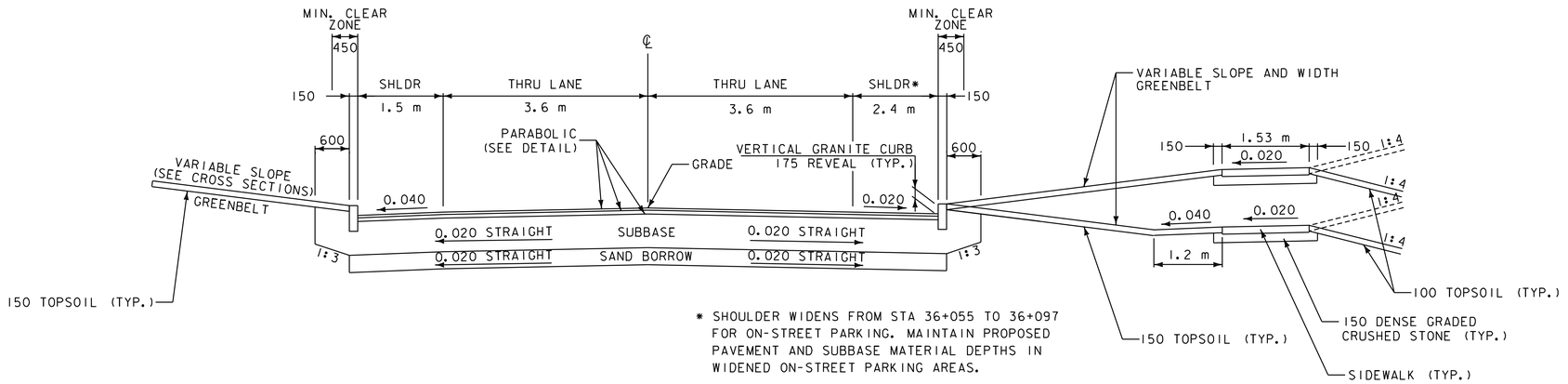
NOT TO SCALE



ONE 3.6 m LANE

PARABOLIC DETAIL (VERMONT 73 EAST)

40 BITUMINOUS CONCRETE PAVEMENT (TYPE IIIS) (PG 70-28)
65 BITUMINOUS CONCRETE PAVEMENT (TYPE IS) (PG 70-28)
590 SUBBASE OF DENSE GRADED CRUSHED STONE
300 SAND BORROW



* SHOULDER WIDENS FROM STA 36+055 TO 36+097 FOR ON-STREET PARKING. MAINTAIN PROPOSED PAVEMENT AND SUBBASE MATERIAL DEPTHS IN WIDENED ON-STREET PARKING AREAS.

VERMONT 73 EAST

NOT TO SCALE

TYPICAL SECTION

PROJECT NAME: BRANDON
PROJECT NUMBER: NH 019-3(496)

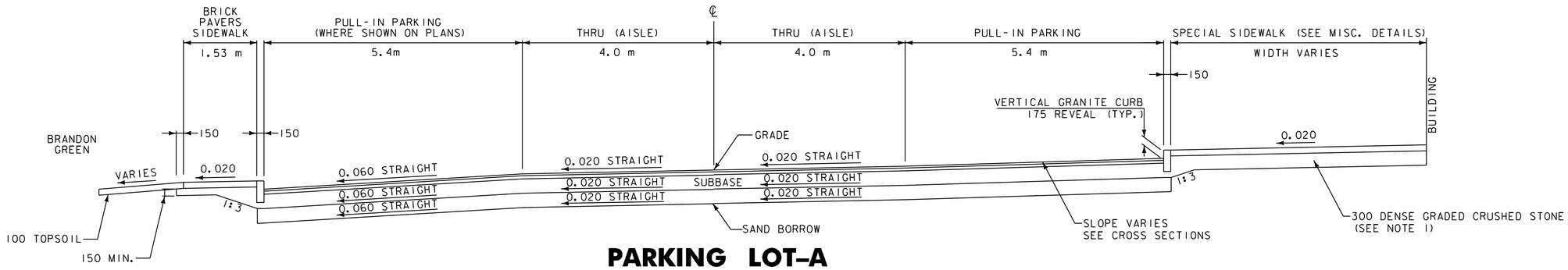
FILE NAME: zb008s6-typ.dgn
PROJECT LEADER: C. BEAN
DESIGNED BY: D. MUNRO
PLOT DATE: 2/23/2017
DRAWN BY: S. GOODWIN
CHECKED BY: P. SHEDD
SHEET 5 OF 601

CLD 02-0448 MODEL: 3

ISSUED FOR CONSTRUCTION

MATERIAL ITEM	THICKNESS TOLERANCE
PAVEMENT (TOTAL DEPTH ALL LAYERS)	+/- 5
SUBBASE	+/- 30
SAND BORROW	+/- 30

40 BITUMINOUS CONCRETE PAVEMENT (TYPE IVS) (PG 70-28)
60 BITUMINOUS CONCRETE PAVEMENT (TYPE IIS) (PG 70-28)
300 SUBBASE OF DENSE GRADED CRUSHED STONE
300 SAND BORROW



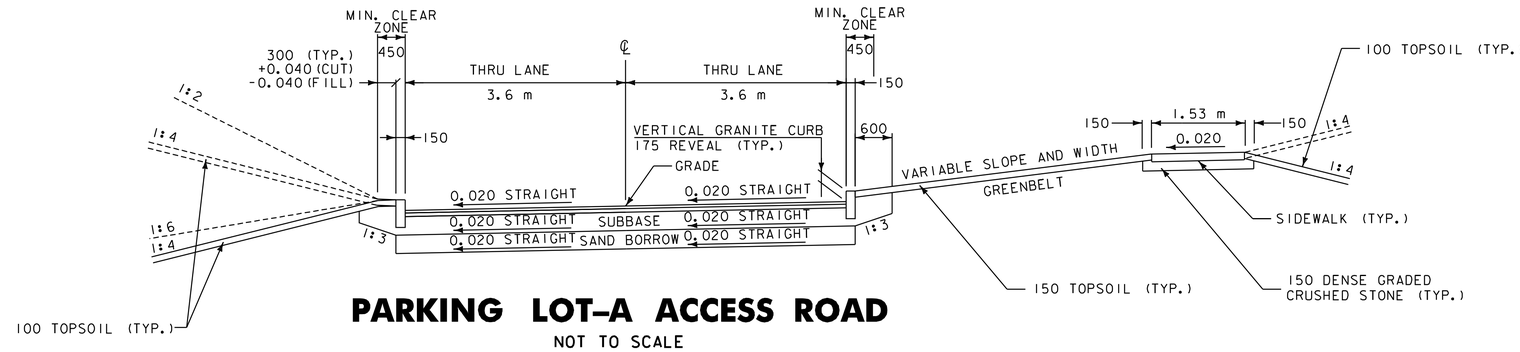
PARKING LOT-A

NOT TO SCALE

40 BITUMINOUS CONCRETE PAVEMENT (TYPE IVS) (PG 70-28)
60 BITUMINOUS CONCRETE PAVEMENT (TYPE IIS) (PG 70-28)
300 SUBBASE OF DENSE GRADED CRUSHED STONE
300 SAND BORROW

NOTES:

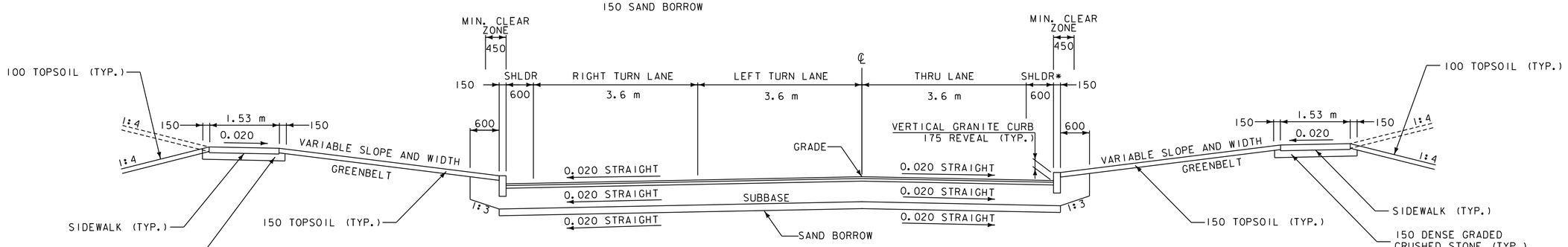
1. SUBBASE REPLACED BY STRUCTURAL SOIL UNDER SIDEWALK AT SPECIFIC LOCATIONS AS SHOWN ON THE STRUCTURAL/ SPECIAL SOIL PLANS. SEE MISCELLANEOUS DETAILS.



PARKING LOT-A ACCESS ROAD

NOT TO SCALE

40 BITUMINOUS CONCRETE PAVEMENT (TYPE IVS) (PG 70-28)
60 BITUMINOUS CONCRETE PAVEMENT (TYPE IIS) (PG 70-28)
450 SUBBASE OF DENSE GRADED CRUSHED STONE
150 SAND BORROW



CARVER STREET

NOT TO SCALE

* SHOULDER WIDENS FROM STA 34+030 TO 34+065 FOR ON-STREET PARKING. MAINTAIN PROPOSED PAVEMENT AND SUBBASE MATERIAL DEPTHS IN WIDENED ON-STREET PARKING AREAS.

TYPICAL SECTION

PROJECT NAME:	BRANDON
PROJECT NUMBER:	NH 019-3(496)
FILE NAME: zb008s6-typ.dgn	PLOT DATE: 2/23/2017
PROJECT LEADER: C. BEAN	DRAWN BY: S. GOODWIN
DESIGNED BY: D. MUNRO	CHECKED BY: P. SHEDD
	SHEET 6 OF 601

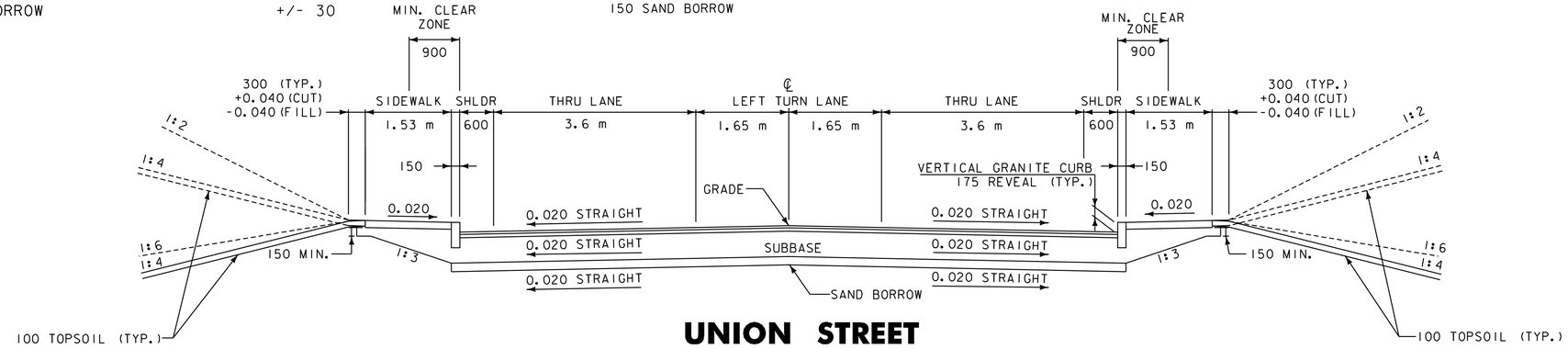
CLD 02-0448 MODEL: 4

ISSUED FOR CONSTRUCTION

VAOT Metric

MATERIAL ITEM	THICKNESS TOLERANCE
PAVEMENT (TOTAL DEPTH ALL LAYERS)	+/- 5
SUBBASE	+/- 30
SAND BORROW	+/- 30

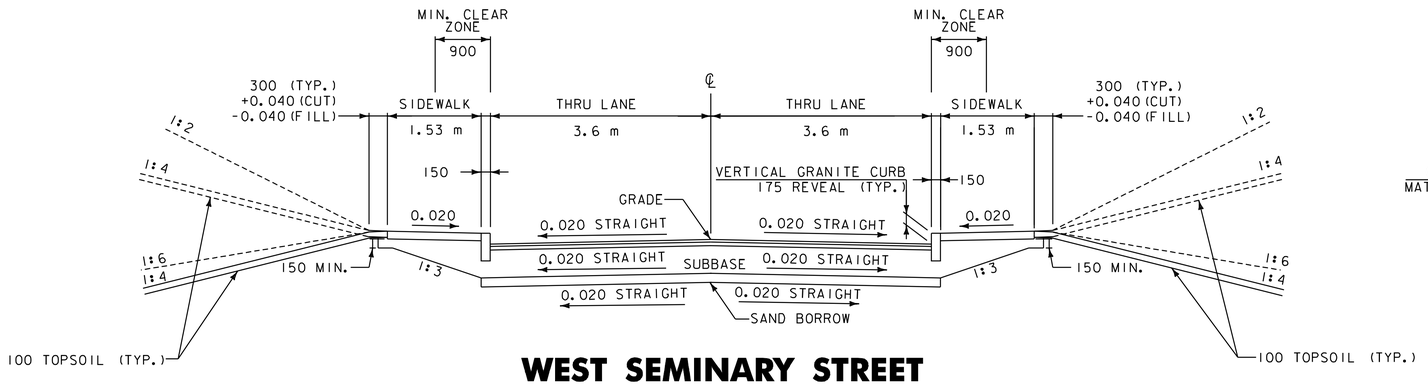
40 BITUMINOUS CONCRETE PAVEMENT (TYPE IVS) (PG 70-28)
60 BITUMINOUS CONCRETE PAVEMENT (TYPE IIS) (PG 70-28)
450 SUBBASE OF DENSE GRADED CRUSHED STONE
150 SAND BORROW



UNION STREET

NOT TO SCALE

40 BITUMINOUS CONCRETE PAVEMENT (TYPE IVS) (PG 70-28)
60 BITUMINOUS CONCRETE PAVEMENT (TYPE IIS) (PG 70-28)
450 SUBBASE OF DENSE GRADED CRUSHED STONE
150 SAND BORROW



WEST SEMINARY STREET

NOT TO SCALE

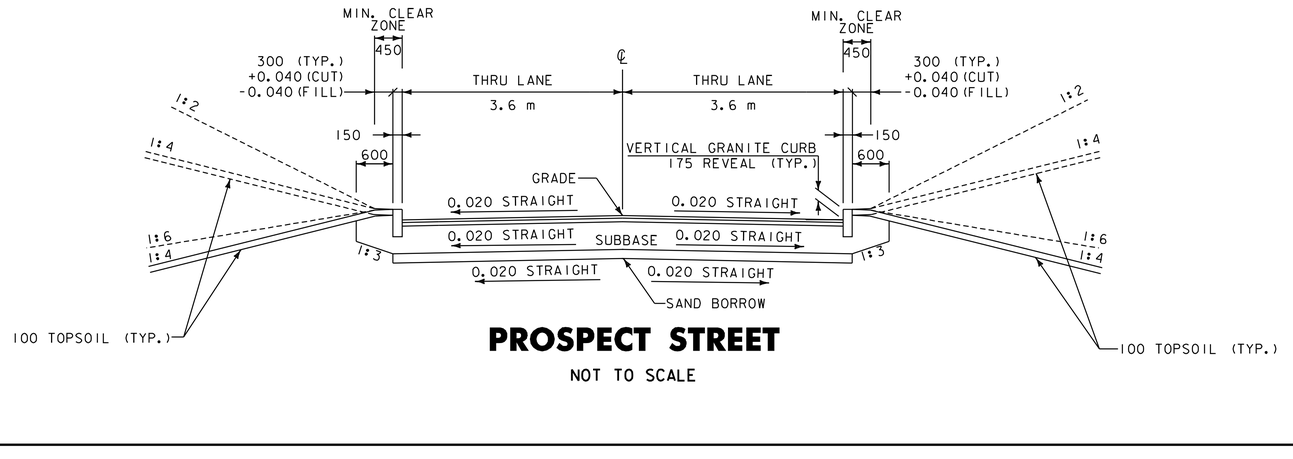
BITUMINOUS CONCRETE SIDEWALK DETAIL

WEST SEMINARY STREET
(STA 9+077.0 - 9+097.3 RT)

UNION STREET
(STA 35+109.5 - 35+114.0 LT)

NOT TO SCALE

40 BITUMINOUS CONCRETE PAVEMENT (TYPE IVS) (PG 70-28)
60 BITUMINOUS CONCRETE PAVEMENT (TYPE IIS) (PG 70-28)
450 SUBBASE OF DENSE GRADED CRUSHED STONE
150 SAND BORROW



PROSPECT STREET

NOT TO SCALE

TYPICAL SECTION

PROJECT NAME:	BRANDON
PROJECT NUMBER:	NH 019-3(496)

FILE NAME: zb008s6-typ.dgn		PLOT DATE:	2/23/2017
PROJECT LEADER:	C. BEAN	DRAWN BY:	S. GOODWIN
DESIGNED BY:	D. MUNRO	CHECKED BY:	P. SHEDD
		SHEET 7	OF 601

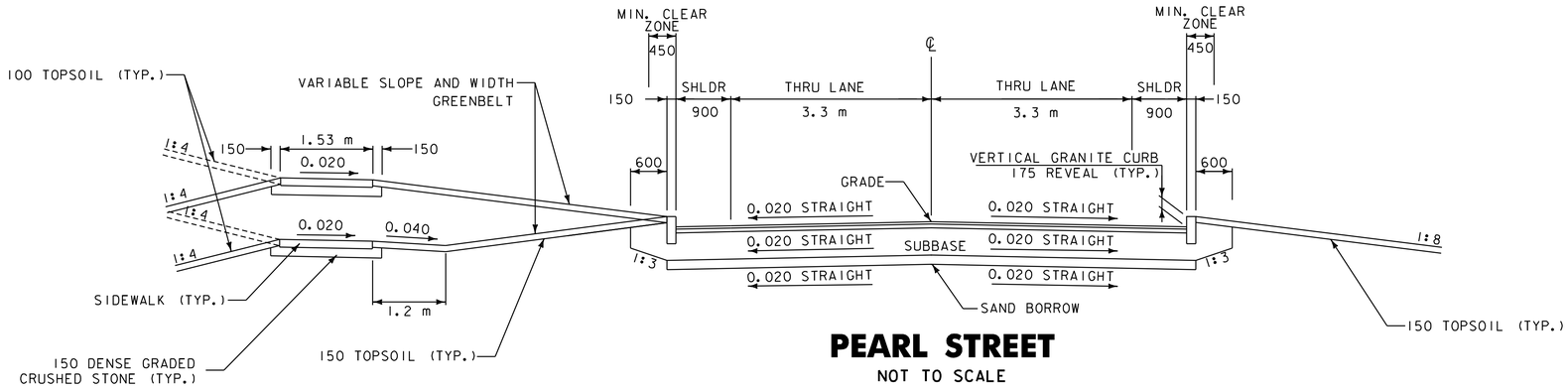
CLD 02-0448 MODEL: 5

ISSUED FOR CONSTRUCTION

VAOT Metric

MATERIAL ITEM	THICKNESS TOLERANCE
PAVEMENT (TOTAL DEPTH ALL LAYERS)	+/- 5
SUBBASE	+/- 30
SAND BORROW	+/- 30

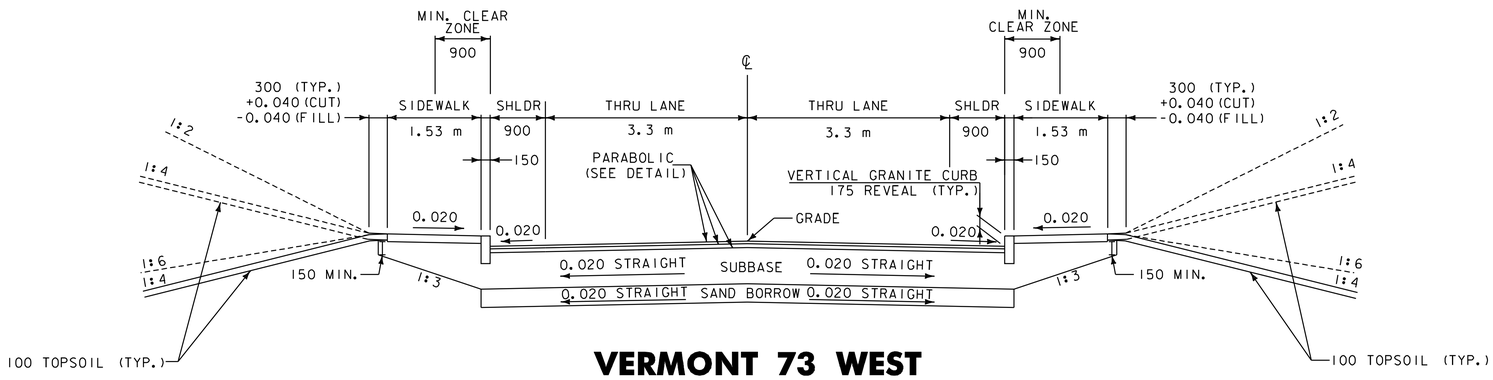
40 BITUMINOUS CONCRETE PAVEMENT (TYPE IVS) (PG 70-28)
60 BITUMINOUS CONCRETE PAVEMENT (TYPE IIS) (PG 70-28)
450 SUBBASE OF DENSE GRADED CRUSHED STONE
150 SAND BORROW



PEARL STREET

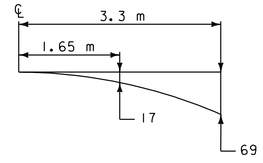
NOT TO SCALE

40 BITUMINOUS CONCRETE PAVEMENT (TYPE IIIS) (PG 70-28)
65 BITUMINOUS CONCRETE PAVEMENT (TYPE IS) (PG 70-28)
590 SUBBASE OF DENSE GRADED CRUSHED STONE
300 SAND BORROW



VERMONT 73 WEST

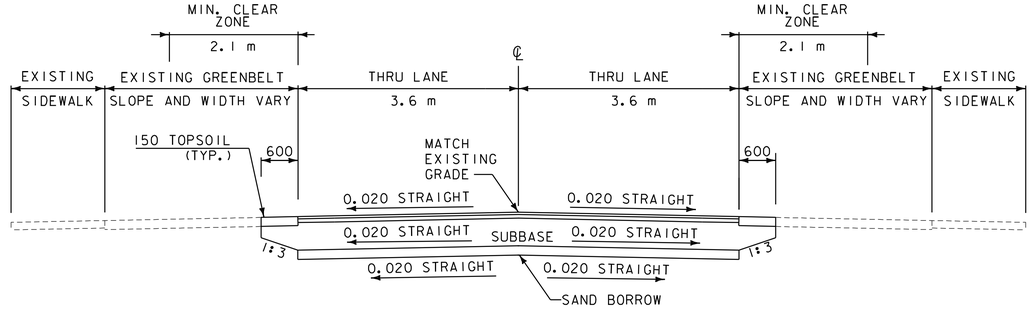
NOT TO SCALE



ONE 3.3 m LANE

PARABOLIC DETAIL (VERMONT 73 WEST)

40 BITUMINOUS CONCRETE PAVEMENT (TYPE IVS) (PG 70-28)
60 BITUMINOUS CONCRETE PAVEMENT (TYPE IIS) (PG 70-28)
450 SUBBASE OF DENSE GRADED CRUSHED STONE
150 SAND BORROW



ROSSITER STREET

NOT TO SCALE

TYPICAL SECTION

PROJECT NAME: BRANDON
PROJECT NUMBER: NH 019-3(496)

FILE NAME: zb008s6-typ.dgn
PROJECT LEADER: C. BEAN
DESIGNED BY: D. MUNRO
PLOT DATE: 2/23/2017
DRAWN BY: S. GOODWIN
CHECKED BY: P. SHEDD
SHEET 8 OF 601

CLD 02-0448 MODEL: 6

ISSUED FOR CONSTRUCTION

VAOT Metric

PROJECT GENERAL NOTES:

1. COORDINATION WITH OTHER PROJECTS:
THE CONTRACTOR IS MADE AWARE OF THE FOLLOWING PROJECTS IN TOWN THAT MAY ALSO BE UNDER CONSTRUCTION DURING THE CONSTRUCTION OF THIS PROJECT. REFER TO SUBSECTION 105.08 OF THE SPECIFICATIONS.
 - NESHOBE RIVER BRIDGE NO. 114 (BHF 019-3(58))
 - CHAMPLAIN STREET PUMP STATION UPGRADE CONTRACT NO. 1
 - NESHOBE RIVER OVERFLOW CULVERT

2. PROGRESSION OF WORK:
IT IS THE OWNERS EXPECTATION THAT THE CONTRACTOR WILL FOCUS WORK IN SEVERAL SPECIFIC SEGMENTS THAT CAN BE COMPLETED WITHIN A CONSTRUCTION SEASON WITH THE EXCEPTION OF FINAL WEARING COURSE PAVEMENT, LANDSCAPE FEATURES, AND FINAL TURF ESTABLISHMENT. ADDITIONALLY, THE PLANS INDICATE A SPECIFIC SEQUENCE OF CONSTRUCTION IN THE DOWNTOWN AREA TO ALLOW FOR THE INSTALLATION OF UNDERGROUND UTILITIES AS ONE OF THE FIRST CONSTRUCTION PHASES AND TO MINIMIZE TEMPORARY LOSS OF PARKING AND DISRUPTION TO BUSINESSES. THE PROPOSED CONSTRUCTION SCHEDULE MUST ADDRESS THESE ASPECTS. REFER TO TRAFFIC CONTROL NOTES AND SUBSECTION 107.17 OF THE SPECIFICATIONS FOR ADDITIONAL INFORMATION.

3. CONCRETE ROADBED:
THE CONTRACTOR IS MADE AWARE OF THE PRESENCE OF PORTLAND CEMENT CONCRETE (PCC) ROADBED ON US 7 BENEATH EXISTING BITUMINOUS CONCRETE PAVEMENT THROUGHOUT THE LENGTH OF THE PROJECT. REMOVAL OF THE EXISTING CONCRETE ROADBED AND BITUMINOUS CONCRETE PAVEMENT DIRECTLY OVER THE PCC ROADBED SHALL BE PAID FOR UNDER ITEM 203.16 SOLID ROCK EXCAVATION. REFER TO EARTHWORKS SHEETS.

4. REMOVAL OF PORTLAND CEMENT CONCRETE SIDEWALK, PADS, AND WALLS:
EARTHWORK SHEETS IDENTIFY KNOWN AREAS WHERE REMOVAL OF PORTLAND CEMENT CONCRETE SIDEWALK, DRIVEWAYS, PADS, OR WALLS ARE REQUIRED. A QUANTITY OF ITEM 203.16 SOLID ROCK EXCAVATION HAS BEEN ESTIMATED FOR THIS WORK. HOWEVER, THE CONTRACTOR SHALL COORDINATE WITH THE ENGINEER TO DETERMINE IF THE REMOVAL OF THESE ITEMS AND OTHER SIMILAR CONCRETE ITEMS LOCATED DURING CONSTRUCTION MEET THE REQUIREMENTS FOR ITEM 203.16 OR SHALL BE REMOVED INCIDENTAL TO ITEM 203.15 COMMON EXCAVATION.

5. LEDGE/BORING LOGS:
DEPICTION OF BEDROCK AS SHOWN ON ROADWAY CROSS SECTIONS IS APPROXIMATE ONLY. THE BEDROCK PROFILES SHOWN ON THE CROSS-SECTIONS ARE OBTAINED FROM INTERPOLATIONS AND EXTRAPOLATIONS OF BEDROCK ELEVATIONS OBSERVED AT THE TEST BOREHOLE LOCATIONS, SEISMIC REFRACTION SURVEY LINES AND THE SURVEYED ELEVATIONS OF BEDROCK OUTCROPS, AND THEREFORE, MAY NOT REPRESENT THE ACTUAL BEDROCK ELEVATIONS. INFORMATION ON ACTUAL SUBSURFACE CONDITIONS EXISTS ONLY AT THE ACTUAL LOCATION OF TEST BOREHOLES AND SEISMIC LINES. SUBSURFACE CONDITIONS AND GROUNDWATER LEVELS AT OTHER LOCATIONS MAY DIFFER FROM CONDITIONS FOUND AT THESE LOCATIONS. THE BOREHOLE LOCATION AND ABBREVIATED SUBSURFACE INFORMATION ARE SHOWN ON THE CROSS-SECTIONS. DETAILED SUBSURFACE DESCRIPTIONS ARE INCLUDED IN THE BOREHOLE LOGS. THE CONTRACTOR SHALL MAKE HIS OWN INTERPRETATION OF BEDROCK PROFILES BASED ON THIS INFORMATION AND OTHER INFORMATION COLLECTED SEPARATELY.

6. CONTAMINATED SOIL:
ESTIMATED QUANTITIES OF ITEM 900.608 SPECIAL PROVISION (EXCAVATION OF PETROLEUM CONTAMINATED SOILS CLASS I), ITEM 900.608 SPECIAL PROVISION (EXCAVATION OF PETROLEUM CONTAMINATED SOILS CLASS II) AND ITEM 900.608 SPECIAL PROVISION (EXCAVATION OF PETROLEUM CONTAMINATED SOILS CLASS III) HAVE BEEN INCLUDED. BORINGS INDICATE THE LIKELIHOOD OF ENCOUNTERING CONTAMINATED SOILS DURING CONSTRUCTION ADJACENT TO EXISTING GASOLINE STATIONS AND IN THE VICINITY OF BRIGGS LANE. CONTAMINATED SOILS AND GROUNDWATER MAY BE ENCOUNTERED AT OTHER LOCATIONS. REFER TO THE SPECIAL PROVISION ITEM FOR ADDITIONAL INFORMATION REGARDING IDENTIFICATION AND CLASSIFICATION OF CONTAMINATED SOILS, NOTIFICATION REQUIREMENTS AND REQUIREMENTS FOR REMEDIATION AND DISPOSAL.

7. CONSTRUCTION VIBRATIONS:
THE CONTRACTOR IS MADE AWARE OF THE CONCERN FOR DAMAGE TO ABUTTING PROPERTIES AS A RESULT OF VIBRATIONS DURING CONSTRUCTION. THE CONTRACTOR SHALL COORDINATE WITH THE ENGINEER TO IDENTIFY BUILDINGS ALONG THE PROJECT FOR INSPECTION AND/OR MONITORING PER ITEM 900.645 SPECIAL PROVISION (BUILDING INSPECTIONS / VIBRATION MONITORING). ALL CONDITIONS OF SUBSECTIONS 107.11 AND 107.12 OF THE SPECIFICATIONS SHALL ALSO APPLY.

8. DRIVEWAYS:
REFER TO DRIVE ENTRANCE DETAIL IN THESE PLANS AND STANDARD PLAN B-71 FOR DRIVEWAY CONSTRUCTION REQUIREMENTS. RECONSTRUCTED DRIVEWAYS ARE IDENTIFIED ON THE ROADWAY LAYOUTS AS RESIDENTIAL (RES.) OR COMMERCIAL (COMM.). AVERAGE WIDTH (AT THROAT) AND PROPOSED SURFACE TREATMENT (PAVED, GRAVEL OR CONCRETE) ARE ALSO IDENTIFIED FOR EACH DRIVEWAY ON THE ROADWAY LAYOUTS. ITEM 900.675 SPECIAL PROVISION (HAND-PLACED BITUMINOUS CONCRETE MATERIAL, DRIVES) AND ITEM 401.10 AGGREGATE SURFACE COURSE SHALL BE USED FOR PAVED AND GRAVEL DRIVES, RESPECTIVELY. REFER TO PORTLAND CEMENT CONCRETE DRIVE DETAIL FOR CONCRETE DRIVES. ITEM 301.15 SUBBASE OF GRAVEL SHALL BE PROVIDED FOR DRIVEWAY SUBBASE AS SHOWN ON STANDARD PLAN B-71 FOR RESIDENTIAL OR COMMERCIAL DRIVES AS APPLICABLE.

9. TACK COAT:
EMULSIFIED ASPHALT IS TO BE APPLIED AT THE RATE OF 0.12 L/m2 BETWEEN SUCCESSIVE COURSES OF PAVEMENT AND 0.25 L/m2 ON COLD PLANED SURFACES OR AS DIRECTED BY THE ENGINEER.

10. SLOPE ROUNDING:
ALL CUT SLOPES TO BE ROUNDED IN ACCORDANCE WITH STANDARD PLAN B-5.

11. TEMPORARY LIGHTING:
TEMPORARY LIGHTING SHALL BE PROVIDED AT ANY LOCATION WHERE THE EXISTING ROADWAY LIGHTING WILL BE REMOVED PRIOR TO INSTALLATION OF THE PERMANENT ROADWAY LIGHTING. IT IS ANTICIPATED AT MINIMUM, THAT TEMPORARY LIGHTING WILL BE REQUIRED ON FRANKLIN, CENTER, PARK, UNION AND CARVER STREETS WHERE THE OVERHEAD UTILITIES ARE BEING PLACED UNDERGROUND, AND AT PEARL, CHAMPLAIN AND GROVE STREETS ADJACENT TO CRESCENT PARK. OTHER AREAS REQUIRED DUE TO CONTRACTOR'S PROPOSED OPERATIONS AND SCHEDULE SHALL BE INCLUDED IN THIS ITEM. EXISTING STREET LIGHTING SHALL REMAIN IN PLACE UNTIL THE TEMPORARY LIGHTING HAS BEEN APPROVED AND INSTALLED, AND IS OPERATIONAL. TEMPORARY LIGHTING SHALL BE MAINTAINED THROUGHOUT CONSTRUCTION UNTIL THE PERMANENT STREET LIGHTING IS INSTALLED AND OPERATIONAL. CONTRACTOR IS RESPONSIBLE FOR DESIGN, INSTALLATION, PROTECTION, MAINTENANCE, AND REMOVAL. SEE SPECIAL PROVISION (TEMPORARY LIGHTING).

12. EXISTING UTILITIES:
PRIOR TO ANY EXCAVATION, THE CONTRACTOR SHALL CONTACT DIG-SAFE AT 1-888-DIG-SAFE. SEE SUBSECTION 107.13 OF THE SPECIFICATIONS. THE CONTRACTOR SHALL ALSO CONTACT ALL UTILITY COMPANIES OWNING UTILITIES, EITHER OVERHEAD OR IN THE GROUND, WITHIN THE CONSTRUCTION AREA, AND SHALL COORDINATE WITH THE OWNERS OF SAID UTILITIES. CONTACT INFORMATION FOR UTILITY COMPANY REPRESENTATIVES HAS BEEN PROVIDED WITHIN THE CONTRACT DOCUMENTS. THE CONTRACTOR SHALL TAKE ADEQUATE PRECAUTIONS TO PROTECT ALL EXISTING UTILITIES. RELOCATION OF ANY UTILITY, IF REQUIRED, SHALL BE ONLY AS DIRECTED BY THE OWNER OF SAID UTILITY. UTILITIES THAT ARE DAMAGED AS A RESULT OF THE CONTRACTOR'S OPERATIONS SHALL BE REPLACED AT THE CONTRACTOR'S EXPENSE. THE CONTRACTOR SHALL BE RESPONSIBLE FOR MAKING ALL ARRANGEMENTS FOR ANCHORING, SUPPORTING, AND/OR RELOCATING AND PROTECTING ALL UTILITIES DURING CONSTRUCTION.

THE CONTRACTOR IS MADE AWARE OF THE PRESENCE OF EXISTING UNDERGROUND CONCRETE ENCASED FIBEROPTIC TELEPHONE LINES THROUGHOUT THE PROJECT LIMITS WHICH SHALL BE AVOIDED/PROTECTED DURING CONSTRUCTION. THE APPROXIMATE LOCATION OF THESE UTILITIES HAS BEEN SHOWN ON PLANS AND CROSS SECTIONS (IDENTIFIED AS "RETAINED UNDERGROUND TELEPHONE" OR "RUT" ON THE PLANS). THE EXACT LOCATIONS SHOULD BE VERIFIED AS DESCRIBED BELOW.

THE LOCATIONS, SIZES, AND TYPES OF EXISTING UTILITIES ARE SHOWN ON THE PLANS AND CROSS SECTIONS AS AN APPROXIMATE REPRESENTATION ONLY. THE OWNER OR DESIGN ENGINEER HAVE NOT INDEPENDENTLY VERIFIED THIS INFORMATION AS SHOWN ON THE PLANS. THE UTILITY INFORMATION SHOWN DOES NOT GUARANTEE THE ACTUAL EXISTENCE, SERVICEABILITY, OR OTHER DATA CONCERNING THE UTILITIES, NOR DOES IT GUARANTEE AGAINST THE POSSIBILITY THAT ADDITIONAL UTILITIES MAY BE PRESENT THAT ARE NOT SHOWN ON THE PLANS. PRIOR TO ORDERING MATERIALS AND BEGINNING CONSTRUCTION, THE CONTRACTOR SHALL VERIFY AND DETERMINE THE EXACT LOCATIONS, SIZES, AND ELEVATIONS OF THE POINTS OF CONNECTIONS TO EXISTING UTILITIES AND SHALL CONFIRM THAT THERE ARE NO INTERFERENCES WITH EXISTING UTILITIES AND THE PROPOSED UTILITY ROUTES. ANY REQUIRED CHANGES TO THE ALIGNMENT AND/OR DEPTH OF PROPOSED UTILITY INSTALLATION TO AVOID EXISTING UTILITIES THAT ARE FOUND TO VARY FROM THAT AS SHOWN ON THESE PLANS, SHALL BE INCIDENTAL TO THE APPLICABLE PAY ITEM FOR THE NEW UTILITY AND SHALL NOT BE A CAUSE FOR ADDITIONAL PAYMENT.

EXPLORATORY EXCAVATION SHALL BE PAID FOR UNDER ITEM 204.22 TRENCH EXCAVATION OF EARTH, EXPLORATORY.

13. UNITED STATES POSTAL SERVICE:
USPS MAIL DELIVERY WITHIN THE PROJECT LIMITS INCLUDES RURAL DELIVERY BY VEHICLE, AS WELL AS FOOT DELIVERY TO A MAJORITY OF THE CORRIDOR. PRIOR TO CLOSURE OF ANY EXISTING SIDEWALK, CONTRACTOR SHALL CONTACT THE BRANDON POSTMASTER TODD B. FINDLEY, 32 CONANT SQUARE, BRANDON, VERMONT (TEL.: (802)247-6666) IN ORDER TO ARRANGE POSTAL CARRIER ROUTES TO EACH PROPERTY AFFECTED BY THE SIDEWALK CLOSURE. THIS WORK SHALL BE INCIDENTAL TO THE CONTRACT. SEE ALSO SPECIAL PROVISION (REMOVE AND RESET USPS MAILBOX) FOR REQUIREMENTS IN THE RURAL DELIVERY AREAS.

14. TREE PROTECTION:
THE CONTRACTOR IS MADE AWARE THAT PAY ITEM 656.85 TREE PROTECTION SHALL INCLUDE CERTIFIED CONSULTING ARBORIST SERVICES DURING CONSTRUCTION. THE CONTRACTOR SHALL COORDINATE WITH ARBORIST DURING LAYOUT AND INSTALLATION OF TREE PROTECTION ZONE FENCING. THE EXACT LIMITS OF TREE PROTECTION ZONE FENCING IS NOT SHOWN ON THE PLANS. THE CONTRACTOR SHALL COORDINATE WITH THE ARBORIST AND THE ENGINEER TO INSTALL TREE PROTECTION ZONE FENCING PER THE TREE PROTECTION DETAIL IN THE PLANS AND PER SUBSECTION 656.10 OF THE SPECIFICATIONS FOR TREES DENOTED AS "PROTECT TREES" ON THE PLANS. THE ARBORIST SHOULD ALSO BE CONSULTED ON APPROPRIATE MEASURES TO PROTECT ROOTS WHEN ENCOUNTERED DURING EXCAVATION ACTIVITIES. AN ESTIMATED QUANTITY OF PAY ITEM 900.675 SPECIAL PROVISION (FIBER REINFORCED PORTLAND CONCRETE SIDEWALK, 125 mm) HAS BEEN INCLUDED FOR USE NEAR "PROTECT TREES" WHEN APPROVED FOR USE BY THE ARBORIST AND THE ENGINEER.

15. MARBLE CURB:
A QUANTITY OF ITEM 616.40 REMOVING AND RESETTING CURB HAS BEEN INCLUDED WITH THE PROJECT FOR REMOVING EXISTING MARBLE CURB ON THE PROJECT AND RESETTING IT AT LOCATIONS NOTED ON THE PLANS, MISCELLANEOUS DETAILS AND SUMMARIZED ON THE ITEM DETAIL SHEETS FOR PROVIDING MARBLE EDGING, BANDING, STEPPING STONES AND INSETS WITHIN LANDSCAPED AREAS ADJACENT TO THE FOUNTAINS AND AT PROPOSED TREE WELLS. ALL CUTTING REQUIRED FOR INSTALLATION OF RESET CURB, AS CALLED FOR ON THE PLANS, SHALL BE INCIDENTAL TO ITEM 616.40. AN ESTIMATED QUANTITY OF ITEM 616.41 REMOVAL OF EXISTING CURB HAS BEEN INCLUDED FOR THE UNUSED EXISTING MARBLE CURB TO BE SALVAGED TO THE TOWN OF BRANDON. CONTRACTOR SHALL COORDINATE WITH THE ENGINEER TO DETERMINE DELIVERY LOCATION AND QUANTITY OF CURB TO BE SALVAGED. ANY EXISTING CURB THAT IS REMOVED AND NOT REUSED ON THE PROJECT OR SALVAGED TO THE TOWN SHALL BE DISPOSED OF BY THE CONTRACTOR AND THIS WORK SHALL BE INCIDENTAL TO THE CONTRACT. AN ESTIMATED QUANTITY OF ITEM 900.640 SPECIAL PROVISION (MARBLE EDGING) HAS BEEN INCLUDED FOR PROVIDING NEW MARBLE EDGING AT LOCATIONS DETERMINED BY THE ENGINEER WHEN EXISTING MARBLE CURB IS NOT AVAILABLE OR CANNOT BE SALVAGED AND RESET DUE TO ITS CONDITION. ITEM 900.640 SPECIAL PROVISION (MARBLE EDGING) SHALL ONLY BE USED IF/WHEN THERE IS AN INADEQUATE SUPPLY OF EXISTING MARBLE CURB AND MUST BE APPROVED FOR USE BY THE ENGINEER. SEE SPECIAL PROVISIONS MARBLE HARDSCAPE FOR MORE INFORMATION.

16. PRIVATE SIGNS:
PRIVATE SIGNS LOCATED WITHIN THE RIGHT-OF-WAY ARE LABELLED "REMOVED BY OWNER" ON THE SIGNING AND PAVEMENT MARKING PLANS. FOR THOSE PRIVATE SIGNS AND SIGN POSTS OR SUPPORTS NOT REMOVED PRIOR TO THE START OF CONSTRUCTION, THE CONTRACTOR SHALL COORDINATE WITH THE PROPERTY OWNER TO VERIFY THAT THEY INTEND TO REMOVE THE SIGN ASSEMBLY. THIS COORDINATION EFFORT SHALL BE INCIDENTAL TO THE CONTRACT. IF IT BECOMES NECESSARY FOR THE CONTRACTOR TO REMOVE PRIVATE SIGNS IDENTIFIED AS "REMOVE BY OWNER" ON THE PLANS, THE CONTRACTOR SHALL COORDINATE WITH THE ENGINEER TO APPROVE THE REMOVAL AND DETERMINE A SALVAGE LOCATION. THIS WORK WOULD BE PAID UNDER ITEM 675.50 REMOVING SIGNS, BY CHANGE ORDER.

17. PROJECT AMENITIES:
PROJECT AMENITIES, SUCH AS BENCHES, BIKE RACKS, TREE GRATES, TRASH RECEPTACLES, ETC., SHALL BE MODELS AS NOTED ON THE PLANS AND IN THE SPECIAL PROVISIONS. PRIOR TO ORDERING ANY OF THE AMENITY ITEMS, THE MODEL NUMBERS, COLOR AND FINISH SHALL BE VERIFIED WITH THE TOWN OF BRANDON. IF A DIFFERENT MODEL IS PROPOSED, CONTRACTOR SHALL PROVIDE MATERIAL PRICES FOR THE MODEL SPECIFIED IN THE PLANS AND SPECIAL PROVISIONS AS WELL AS MATERIAL PRICES FOR THE PROPOSED MODEL FOR EVALUATION OF COST CHANGE. BID PRICE WILL ONLY BE MODIFIED BY THE DIFFERENCE IN THE MODEL PRICING FROM SUPPLIER. NO COST CHANGE WILL BE ALLOWED FOR INSTALLATION, UNLESS CONTRACTOR CAN PROVIDE SUBSTANTIVE DOCUMENTATION OF INCREASE IN COST OF INSTALLATION OF THE PROPOSED AND ACCEPTED MODEL OVER THAT SPECIFIED IN THE PLANS AND SPECIAL PROVISIONS.

18. EXISTING ORNAMENTAL LIGHTS:
THE TOWN RESERVES THE RIGHT TO REQUEST SALVAGE FOR COMPONENTS OF THE EXISTING STREET LIGHT ASSEMBLIES DESIGNATED FOR REMOVAL IN THE PLANS. PRIOR TO REMOVAL OF EXISTING STREET LIGHT ASSEMBLIES, CONTRACTOR SHALL COORDINATE WITH ENGINEER AND TOWN TO DETERMINE WHICH COMPONENTS OF THE EXISTING STREET LIGHT ASSEMBLIES (IF ANY) WILL BE SALVAGED. CONTRACTOR SHALL CAREFULLY REMOVE AND SALVAGE THESE COMPONENTS TO A LOCATION DESIGNATED BY THE ENGINEER. SALVAGE SHALL BE INCIDENTAL TO ITEM 679.24 REMOVE STREET LIGHT ASSEMBLY. ALL PORTIONS NOT DESIGNATED TO BE SALVAGED SHALL BECOME THE PROPERTY OF THE CONTRACTOR, AND SHALL BE REMOVED FROM THE PROJECT AND PROPERLY DISPOSED OF BY THE CONTRACTOR.

19. STRUCTURE RELOCATION AND RECONSTRUCTION:
THE CONTRACT INCLUDES RELOCATION AND / OR RECONSTRUCTION OF A NUMBER OF STRUCTURES, INCLUDING MONUMENTS, GAZEBO AND FOUNTAINS. CONTRACTOR SHALL TAKE EXTREME CAUTION WHEN OPERATING AROUND, OR HANDLING EXISTING MATERIALS FROM THESE STRUCTURES. STRUCTURES TO BE RELOCATED OR RECONSTRUCTED MAY NEED TO BE TEMPORARILY STORED TO FACILITATE CONSTRUCTION OPERATIONS AND TRAFFIC CONTROL. STORAGE LOCATIONS AND DURATION OF STORAGE SHALL BE CLEARLY IDENTIFIED ON WORKING DRAWINGS AND SHALL BE SUFFICIENTLY PROTECTED FROM DAMAGE FROM CONSTRUCTION VEHICLES, TRAFFIC AND VANDALISM. SUCH PROTECTION SHALL BE INCIDENTAL TO THE APPROPRIATE CONTRACT ITEM. SEE SPECIAL PROVISIONS FOR ADDITIONAL INFORMATION. THE MONUMENT AND FOUNTAINS ARE HISTORIC STRUCTURES. PRIOR TO ANY WORK AT THESE LOCATIONS, THE CONTRACTOR SHALL BE RESPONSIBLE FOR HIRING QUALIFIED PERSONNEL TO COMPLETE PHOTO DOCUMENTATION IN ACCORDANCE WITH ARCHIVAL REQUIREMENTS AS SPECIFIED IN THE SPECIAL PROVISIONS. THIS WORK SHALL BE INCIDENTAL TO THE APPROPRIATE CONTRACT ITEM.

PROJECT NOTES

PROJECT NAME: BRANDON
PROJECT NUMBER: NH 019-3(496)

FILE NAME: zb008s6-projnotes.dgn
PROJECT LEADER: C. BEAN
DESIGNED BY: D. MUNRO
PLOT DATE: 2/23/2017
DRAWN BY: W. GORDON
CHECKED BY: D. MUNRO
SHEET 9 OF 601

CLD 02-0448 MODEL:1

ISSUED FOR CONSTRUCTION

VAOT Metric

PROJECT GENERAL NOTES (CONT.):

20. PROPERTY CORNER MONUMENTATION: THE CONTRACTOR IS MADE AWARE THAT IT IS HIS RESPONSIBILITY TO REESTABLISH IMPACTED PROPERTY CORNER MONUMENTATION AS NOTED IN CHARTS ON THE RIGHT-OF-WAY (ROW) LAYOUTS. ONLY IMPACTED MONUMENTATION LOCATED ON OR OUTSIDE OF THE ROW SHALL BE REPLACED AS NOTED ON THE CHARTS. IMPACTED MONUMENTATION INSIDE OF THE ROW SHALL BE REMOVED AND PROPERLY DISPOSED OF AND THIS WORK SHALL BE CONSIDERED INCIDENTAL TO THE CONTRACT. EXISTING PROPERTY LINE MONUMENTATION LOCATED BEYOND THE LIMITS OF CONSTRUCTION SHALL BE RETAINED. FOR MONUMENTATION TO BE REMOVED AND REPLACED AS DESCRIBED ABOVE:

    -THE WORK SHALL BE PERFORMED BY OR UNDER SUPERVISION OF A LICENSED SURVEYOR IN THE STATE OF VERMONT AND/OR PER STATE STATUTES.

    -FOR THOSE SITUATIONS WHERE THE INTERSECTION OF THE PROPERTY LINE WITH THE EXISTING ROW CAN BE DETERMINED FROM OTHER EXISTING MONUMENTATION, THE CONTRACTOR SHALL REMOVE AND PROPERLY DISPOSE OF THE IMPACTED MONUMENTATION AND PROVIDE A NEW BOUNDARY MARKER AT THE INTERSECTION UTILIZING BAR REINFORCEMENT PER SECTION 619 OF THE SPECIFICATIONS. EXISTING MONUMENTATION SHALL NOT BE RESET AT THE NEW LOCATION. NOTE THAT THE STATION AND OFFSET FOR THE PROPOSED MONUMENTATION AS PROVIDED IN THE CHARTS ON THE ROW LAYOUTS IS APPROXIMATE ONLY. THE CONTRACTOR AND/OR SURVEYOR SHALL DETERMINE THE ACTUAL LOCATION OF THE PROPERTY LINE INTERSECTION WITH THE ROW WHEN SETTING THE NEW MONUMENTATION.

    -FOR THOSE SITUATIONS WHERE THE INTERSECTION OF THE PROPERTY LINE WITH THE EXISTING ROW CANNOT BE ACCURATELY DETERMINED, THE CONTRACTOR/SURVEYOR SHALL DOCUMENT THE LOCATION OF THE EXISTING MONUMENTATION AND SHALL REMOVE, STOCKPILE AND ULTIMATELY RESET THE MONUMENTATION AT THE ORIGINAL LOCATION PER SUBSECTION 619.03(d).

    -IN EITHER CASE, THE MATERIALS AND ALL WORK SHALL BE PAID UNDER ITEM 619.20 REMOVING AND RESETTING PROPERTY MARKERS.

21. ROW BOUNDARY MONUMENTATION: THE CONTRACTOR IS MADE AWARE THAT IT IS HIS RESPONSIBILITY TO REESTABLISH IMPACTED ROW BOUNDARY MONUMENTATION AND TO ESTABLISH MONUMENTATION FOR NEW ROW TAKE AREAS AS DEPICTED ON THE ROW LAYOUTS AND SUMMARIZED IN THE SPECIAL PROVISIONS.

    -THE WORK SHALL BE PERFORMED BY OR UNDER SUPERVISION OF A LICENSED SURVEYOR IN THE STATE OF VERMONT AND/OR PER STATE STATUTES.

    -EXISTING MONUMENTATION IMPACTED BY CONSTRUCTION MAY BE REUSED IF THE REMOVED CONDITION IS ACCEPTABLE AS DETERMINED BY THE ENGINEER. OTHERWISE, THE EXISTING MONUMENTATION WILL BE PROPERLY DISPOSED OF AND THIS WORK SHALL BE CONSIDERED INCIDENTAL TO THE CONTRACT.

    -BOUNDARY MARKER SHALL CONSIST OF 100 mm X 100 mm SQUARE GRANITE POST 900 mm IN LENGTH AND SHALL BE SET 150 mm ABOVE FINISH GRADE ELEVATION OR AS DIRECTED BY THE ENGINEER. WHEN THE BOUND COULD BE STRUCK BY MOWING OR SIDEWALK PLOWING EQUIPMENT, THE BOUND SHALL BE SET FLUSH WITH THE FINISH GROUND.

    -ALL MATERIALS AND WORK TO EITHER REMOVE AND RESET EXISTING MONUMENTATION OR SET NEW MONUMENTATION SHALL BE PAID UNDER ITEM 619.10 BOUNDARY MARKERS.

BLASTING FOR TRENCH EXCAVATION OF ROCK:

1. THESE BLASTING NOTES APPLY TO LOCATIONS WHERE CONTRACTOR SELECTS BLASTING AS METHOD OF TRENCH EXCAVATION OF ROCK EITHER INSTEAD OF OR IN ADDITION TO OTHER METHODS OF LEDGE REMOVAL INCLUDING HAMMERING.

2. REFER TO SUBSECTIONS 107.11 AND 107.12 OF THE SPECIFICATIONS.

3. PRE-BLAST ACTIVITIES, BLASTING, AND BLAST MONITORING SERVICES INCLUDING SEISMOLOGIST, AS DEFINED IN THESE NOTES AND ON SUBSEQUENT PLANS, SHALL BE INCIDENTAL TO ITEM 204.21, TRENCH EXCAVATION OF ROCK.

4. AFTER CONTRACT AWARD, THE CONTRACTOR SHALL SUBMIT THE QUALIFICATIONS OF A PROPOSED INDEPENDENT SEISMOLOGIST. THE SEISMOLOGIST SHALL BE RESPONSIBLE FOR PRODUCING AND IMPLEMENTING THE PREBLAST SURVEY REPORT, BLAST VIBRATION MONITORING PLAN, AND POST-BLAST LOG(S).

5. PRE-DRILLING:
   BEFORE PRODUCTION DRILLING AND BLASTING IS CONDUCTED, THE BLASTER WILL ADVANCE DRILL STEM TO ESTIMATE THE LEDGE SURFACE. THIS WORK SHALL BE PERFORMED IN THE PRESENCE OF THE ENGINEER.

6. PAYMENT FOR TRENCH EXCAVATION OF ROCK (ITEM 204.21) SHALL BE BASED ON THE STANDARD SPECIFICATIONS DESCRIPTION, REGARDLESS OF ADDITIONAL ROCK REMOVAL REQUIRED FOR SAFETY AND INSTALLATION REQUIREMENTS.

7. PREBLAST SURVEY REPORT:
   -THE CONTRACTOR SHALL CONDUCT A SURVEY OF ALL STRUCTURES WITHIN A 150 m LIMIT OF PROPOSED BLASTING LOCATIONS. TWO WEEKS PRIOR TO THE START OF BLASTING, SUBMIT TO THE ENGINEER FOR REVIEW A REPORT DESCRIBING THE RESULTS OF THIS SURVEY, INCLUDING ALL INFORMATION PERTINENT TO ANY DEFECTIVE CONDITIONS OF THE STRUCTURES SURVEYED, SUCH AS CRACKS, FOUNDATION PROBLEMS, WELL FUNCTION PROBLEMS, OR THE LIKE.

   -THE PREBLAST SURVEY REPORT SHALL INCLUDE PHOTOGRAPHIC OR VIDEO DATA WITH A WRITTEN OR RECORDED COMMENTARY WITH THE WRITTEN REPORT.

   -IF PROPERTY OWNERS WITHIN THE 150 m LIMIT REFUSE ENTRY, THE CONTRACTOR SHALL DOCUMENT DISCUSSION IN THE PREBLAST SURVEY REPORT.

   -CONTRACTOR SHALL PROVIDE COPIES OF THE REPORT TO THE ENGINEER AND PROPERTY OWNER.

8. THE CONTRACTOR AND SEISMOLOGIST SHALL REVIEW PROPOSED LEDGE BREAKING OPERATIONS WITH THE ENGINEER. LEDGE BLASTING LOCATIONS MUST BE APPROVED BY THE ENGINEER.

9. BLAST VIBRATION MONITORING PLAN:
   TWO WEEKS PRIOR TO THE START OF BLASTING, THE CONTRACTOR SHALL SUBMIT TO THE ENGINEER FOR REVIEW A DETAILED BLAST VIBRATION PLAN TO ADDRESS SEISMIC VIBRATIONS PRODUCED BY EACH BLAST. THE BLAST VIBRATION MONITORING PLAN SHALL INCLUDE, BUT NOT BE LIMITED TO:

   -DESCRIPTION AND IDENTIFICATION OF THE SEISMOGRAPH. SEISMOGRAPH SHALL PRODUCE DIGITAL ELECTRONIC OUTPUT OF VIBRATIONS, RECORDED IN PEAK PARTICLES VELOCITY IN INCHES/SECOND, OCCURRING ALONG THREE MUTUALLY PERPENDICULAR AXES TO THE GROUND LEVEL. THE RECORDING DEVICE SHALL BE CAPABLE OF MEASURING AND RECORDING PARTICLE VELOCITIES FROM 0.5 TO 125 MILLIMETERS/SECOND (0.02 TO 5.00 INCHES/SECOND).

   -PLANNED MONITORING LOCATIONS.

   -PROVISIONS FOR A TEST BLAST OR OTHER NECESSARY PROCEDURES FOR ESTABLISHING BLASTING PROCEDURES SUCH THAT BLAST VIBRATIONS COMPLY WITH THE SPECIFIED LIMITS.

   -PLANNED BLASTING PROCEDURES, EXPLOSIVE TYPE, PLANNED STEMMING, ANTICIPATED BLASTING PATTERN, DELAY, EXPLOSIVE QUANTITY PER DELAY, METHODS OF ADJUSTING BLASTING TECHNIQUES TO REDUCE SEISMIC VIBRATIONS, AND ANTICIPATED PROTECTION PLAN FOR LIFE AND PROPERTY ADJACENT TO BLASTING OPERATIONS.

10. POST-BLAST LOG:
    THE FOLLOWING INFORMATION SHALL BE RECORDED AND SUBMITTED TO THE ENGINEER EACH DAY:

    -NAME OF CONTRACTOR OR SUBCONTRACTOR RESPONSIBLE FOR THE BLASTING OPERATION.

    -NAME AND SIGNATURE OF APPROVED SEISMOLOGIST OR SEISMOGRAPH OPERATOR, IF OTHER THAN THE APPROVED SEISMOLOGIST.

    -NAME AND LICENSE NUMBER OF BLASTER.

    -PREVAILING WEATHER CONDITIONS AT THE TIME OF THE SHOT, MAKING PARTICULAR REFERENCE TO CLOUD CONDITIONS AND TEMPERATURE, AND RELATIVE HUMIDITY RANGE.

    -SHOT LOCATION (STATIONING AND SKETCH), DATE AND TIME OF DAY OF THE SHOT. NUMBER OF HOLES, BURDEN, AND PATTERN. DIAMETER AND DEPTH OF HOLES.

    -SPECIFICATIONS OF EXPLOSIVES BEING USED, WHETHER IN PRODUCTION HOLES OR IN PRESPLIT PORTIONS OF THE SHOT, OR BOTH. TOTAL WEIGHT OF EXPLOSIVES USED. MAXIMUM WEIGHT OF EXPLOSIVES PER DELAY.

    -SKETCH OF THE WIRING CIRCUIT USED, TYPE OF CAPS AND DELAY PERIOD USED.

    -DEPTH OF SAND BLANKET OR EXTENT OF BLASTING MAT, IF USED.

    -SEISMOGRAPH OUTPUT (INCHES/SECOND) OF EACH BLAST.

    -SEISMOGRAPH MAKE, MODEL AND SERIAL NUMBER, LOCATION AND DISTANCE (IN FEET) FROM SHOT.

    -REVIEW OF CONTRACTOR'S SUBMITTALS BY THE ENGINEER WILL NOT RELIEVE THE CONTRACTOR OF RESPONSIBILITIES FOR THE ACCURACY, ADEQUACY, AND SAFETY OF BLASTING. THE CONTRACTOR SHALL BE SOLELY AND COMPLETELY RESPONSIBLE FOR THE SAFETY OF ALL PERSONS AND PROPERTY DURING THE PERFORMANCE OF THE WORK.

11. THE CONTRACTOR SHALL RETAIN AND PAY FOR ANY INDEPENDENT SEISMIC CONSULTANT FOR MONITORING NOISE AND VIBRATION IF AND WHEN REQUESTED BY ADJACENT UTILITY OWNERS. THE CONTRACTOR SHALL SUBMIT A QUALIFICATIONS PACKAGE FOR THE SELECTED SEISMIC CONSULTANT FOR REVIEW AND APPROVAL BY THE ENGINEER AND UTILITY OWNER(S).

12. WHEN THE USE OF EXPLOSIVES IS NECESSARY FOR THE PROSECUTION OF THE WORK, THE CONTRACTOR SHALL EXERCISE THE UTMOST CARE NOT TO ENDANGER LIFE OR PROPERTY, INCLUDING NEW WORK. THE CONTRACTOR WILL BE RESPONSIBLE FOR ALL DAMAGE RESULTING FROM THE USE OF EXPLOSIVES.

13. NOTIFICATION:

    -THE BRANDON FIRE CHIEF, OR HIS AUTHORIZED REPRESENTATIVE, SHALL BE NOTIFIED DAILY OF SCHEDULED BLASTS. ALL PERSONS WITHIN THE DANGER ZONE OF BLASTING OPERATIONS SHALL BE WARNED AND NO BLASTING SHALL BE DONE UNTIL THE ZONE IS CLEARED. SUFFICIENT FLAGGERS SHALL BE STATIONED OUTSIDE THE DANGER ZONE TO STOP ALL APPROACHING TRAFFIC DURING BLASTING OPERATIONS.

    -WRITTEN NOTICE OF THE BLASTING OPERATIONS SHALL BE GIVEN TO ALL PARTIES OWNING OR OPERATING SUBSURFACE UTILITIES 72 HOURS BEFORE COMMENCING BLASTING OPERATIONS. IN AREAS WHERE ROCK IS TO BE EXCAVATED AND UTILITIES OR STRUCTURES ARE SUBJECT TO STRUCTURAL OR ARCHITECTURAL DAMAGE, CONTROLLED BLASTING METHODS AND BLAST MONITORING MAY BE NECESSARY.

14. BLASTING CRITERIA:
    THE MAXIMUM PEAK PARTICLE VELOCITY (PPV) AS MEASURED AT THE CLOSEST STRUCTURE SHALL NOT EXCEED THE FOLLOWING:

    -12.5 mm/SECOND (0.5 INCHES/SECOND) FOR FREQUENCIES LESS THAN 20 HZ;

    -25 mm/SECOND (1.0 INCHES/SECOND) FOR FREQUENCIES BETWEEN 20 AND 40 HZ;

    -50 mm/SECOND (2.0 INCHES/SECOND) FOR FREQUENCIES GREATER THAN 40 HZ. THE MAXIMUM PPV SHALL CONSIST OF THE VECTOR SUM OF THE THREE PERPENDICULAR AXES PPV AT AN INSTANT IN TIME SELECTED TO YIELD THE MAXIMUM VALUE FROM THE BLAST RECORD.

15. PROSECUTION:
    -CONDUCT BLASTING WITH A MINIMUM OF EXPLOSIVES AND SO AS TO LEAVE THE ROCK NOT TO BE EXCAVATED UNSHATTERED. TAKE CARE TO AVOID CRACKING ROCK ON WHICH ANY STRUCTURE WILL BE BUILT AND TO PREVENT INJURY TO EXISTING STRUCTURES. ROCK SHALL BE WELL COVERED WITH MATS.

    -ALL BLASTING SHALL BE COMPLETED WITHIN A DISTANCE OF 20 m BEFORE ANY PORTION OF NEW WORK IS INSTALLED OR ANY PIPE IS LAID.

    -EXPLOSIVES SHALL BE USED ONLY DURING DAYLIGHT HOURS, SHALL BE HANDLED ONLY BY COMPETENT WORKMEN, AND PARTICULAR CARE SHALL BE TAKEN TO ENSURE THAT NO UNEXPLODED CHARGES REMAIN IN THE WORK.

    -BLASTING OPERATIONS SHALL BE PERFORMED IN A MANNER WHICH WILL MINIMIZE NOISE AND VIBRATIONS. THE CONTRACTOR SHALL USE BLASTING PROCEDURES, COVERS (IN EXPOSED AREAS), PROVIDING EFFECTIVE SUPPRESSION OF NOISE AND VIBRATION, AND EMPLOY OTHER ABATEMENT MEASURES NECESSARY FOR THE PROTECTION OF EMPLOYEES AND THE PUBLIC.

16. AFTER INITIAL BLASTING, WHETHER FROM GROUND SURFACE OR WITHIN THE EXCAVATION, ALL LOOSE ROCK SHOULD BE COMPLETELY REMOVED. IF LOOSE ROCK IS OBSERVED BEHIND OR BENEATH A LATERAL SUPPORT WALL, THAT LOOSE ROCK SHALL BE REMOVED, AND MEASURES TAKEN TO PROTECT THE SAFETY OF THE EXCAVATION AND MINIMIZE ASSOCIATED GROUND LOSS FROM THE SURROUNDING AREA.

17. IF ROCK IS EXCAVATED BEYOND THE LIMITS OF PAYMENT, THE EXCESS EXCAVATION SHALL BE BACKFILLED AND COMPACTED WITH SAND BORROW (ITEM 203.31) AT NO ADDITIONAL COST TO OWNER.

CLD 02-0448 MODEL: 2

PROJECT NOTES

PROJECT NAME: BRANDON
PROJECT NUMBER: NH 019-3(496)

FILE NAME: zb008s6-projnotes.dgn
PROJECT LEADER: C. BEAN
DESIGNED BY: D. MUNRO
PLOT DATE: 2/23/2017
DRAWN BY: W. GORDON
CHECKED BY: D. MUNRO
SHEET 10 OF 601

ISSUED FOR CONSTRUCTION

QUANTITY SHEET 1

VAOT Metric

SUMMARY OF ESTIMATED QUANTITIES

ROADWAY	ROADWAY (NO FED/STATE PART.)	TRAINING	LANDSCAPING	EROSION CONTROL	UTILITIES - SEWER	FULL C.E. ITEMS	UTILITIES - WATER	UTILITIES
1								
~~23~~ 8								
~~6~~ 0								
~~4~~ 19								
~~2~~ 6								
1								
48000								
4500								
9								
500								
11100					75			
14000								
330					800		250	
60					130		120	
3170								
1640								
3050								
1750								
190								
19500								25
40								
13100								
1								
15000								
1								
1								
1								
1								
100								
8070								
4								
19								
3								
24								
50								
90					180			

TOTALS

GRAND TOTAL	FINAL
1	
~~23~~ 8	
~~6~~ 0	
~~4~~ 19	
~~2~~ 6	
1	
48000	
4500	
9	
500	
11175	
14000	
1380	
310	
3170	
1640	
3050	
1750	
190	
19525	
40	
13100	
1	
15000	
1	
1	
1	
1	
100	
8070	
4	
19	
3	
24	
50	
270	

DESCRIPTIONS

UNIT	ITEMS	ITEM NUMBER	ROUND
LS	CLEARING AND GRUBBING, INCLUDING INDIVIDUAL TREES AND STUMPS	201.10	-
EACH	REMOVING MEDIUM TREES	201.15	-
EACH	REMOVING LARGE TREES	201.16	-
EACH	REMOVING MEDIUM STUMPS	201.20	-
EACH	REMOVING LARGE STUMPS	201.21	-
EACH	DEMOLITION AND DISPOSAL OF BUILDING	202.10	-
CM	COMMON EXCAVATION	203.15	256.8
CM	SOLID ROCK EXCAVATION	203.16	EST.
CM	EXCAVATION OF SURFACES AND PAVEMENTS	203.28	0.4
CM	EARTH BORROW	203.30	EST.
CM	SAND BORROW	203.31	83.2
CM	TRENCH EXCAVATION OF EARTH	204.20	45
CM	TRENCH EXCAVATION OF ROCK	204.21	71.1
CM	TRENCH EXCAVATION OF EARTH, EXPLORATORY (N.A.B.I.)	204.22	-
CM	STRUCTURE EXCAVATION	204.25	5.5
CM	GRANULAR BACKFILL FOR STRUCTURES	204.30	10.8
SM	COLD PLANING, BITUMINOUS PAVEMENT	210.10	17.5
CM	SUBBASE OF GRAVEL	301.15	17.5
CM	SUBBASE OF CRUSHED GRAVEL, FINE GRADED	301.26	2.2
CM	SUBBASE OF DENSE GRADED CRUSHED STONE	301.35	126.5
CM	AGGREGATE SURFACE COURSE	401.10	9.3
KG	EMULSIFIED ASPHALT	404.65	17.6
LU	PRICE ADJUSTMENT, ASPHALT CEMENT (N.A.B.I.)	406.50	-
T	SUPERPAVE BITUMINOUS CONCRETE PAVEMENT	490.30	25.9
LU	AIR VOIDS PAY ADJUSTMENT (N.A.B.I.)	490.31	-
LU	MAT DENSITY PAY ADJUSTMENT (N.A.B.I.)	490.32	-
LU	SURFACE TOLERANCE PAY ADJUSTMENT (N.A.B.I.)	490.33	-
LU	LONGITUDINAL JOINT COMPACTION PAY ADJUSTMENT (N.A.B.I.)	490.34	-
CM	CONCRETE, HIGH PERFORMANCE CLASS B	501.34	-
KG	REINFORCING STEEL, LEVEL I	507.11	55
M	DRILLING AND GROUTING DOWELS	507.16	-
L	WATER REPELLENT, SILANE	514.10	0.87
SM	SHEET MEMBRANE WATERPROOFING, TORCH APPLIED	519.20	-
M	BRIDGE RAILING, GALVANIZED 3 RAIL BOX BEAM (COATED BLACK)	525.335	-
CM	CONCRETE, CLASS B	541.25	4.6
CM	CONTROLLED DENSITY (FLOWABLE) FILL	541.45	EST.

DETAILED SUMMARY OF QUANTITIES

QUANTITIES	UNIT	ITEMS
		SAND BORROW
9461.4	CM	US ROUTE 7
62.7	CM	CARVER STREET
40.4	CM	HIGH STREET
519.4	CM	LOT A
102.0	CM	PEARL STREET
28.2	CM	PROSPECT STREET
28.7	CM	ROSSITER STREET
59.8	CM	UNION STREET
408.8	CM	VT ROUTE 73 EAST
251.5	CM	VT ROUTE 73 WEST
57.9	CM	WEST SEMINARY STREET
71.0	CM	SEWER
83.2	CM	ROUNDING
11175.0	CM	TOTAL
		TRENCH EXCAVATION OF EARTH
12999.4	CM	DRAINAGE DETAIL SHEET
905.6	CM	ITEM DETAIL SHEET (UNDERDRAIN)
95.0	CM	ROUNDING
14000.0	CM	TOTAL
		TRENCH EXCAVATION OF ROCK
314.9	CM	DRAINAGE DETAIL SHEET
6.8	CM	ITEM DETAIL SHEET (UNDERDRAIN)
232.9	CM	WATER
754.3	CM	SEWER
71.1	CM	ROUNDING
1380.0	CM	TOTAL
		STRUCTURE EXCAVATION
255.0	CM	RETAINING WALL #1
284.0	CM	RETAINING WALL #2
68.0	CM	RETAINING WALL #3
1520.0	CM	DRAINAGE DETAIL SHEET
80.9	CM	UTILITY (VAULTS)
219.1	CM	STORMWATER TREATMENT STRUCTURE #1
234.9	CM	STORMWATER TREATMENT STRUCTURE #2
200.6	CM	STORMWATER TREATMENT STRUCTURE #3
302.0	CM	STORMWATER TREATMENT STRUCTURE #4
5.5	CM	ROUNDING
3170.0	CM	TOTAL
		GRANULAR BACKFILL FOR STRUCTURES
90.0	CM	RETAINING WALL #1
164.0	CM	RETAINING WALL #2
41.0	CM	RETAINING WALL #3
923.1	CM	DRAINAGE DETAIL SHEET
30.3	CM	UTILITY (VAULTS)
116.8	CM	STORMWATER TREATMENT STRUCTURE #1
107.8	CM	STORMWATER TREATMENT STRUCTURE #2
84.6	CM	STORMWATER TREATMENT STRUCTURE #3
71.6	CM	STORMWATER TREATMENT STRUCTURE #4
10.8	CM	ROUNDING
1640.0	CM	TOTAL
		COLD PLANING, BITUMINOUS PAVEMENT
673.5	SM	US ROUTE 7
269.7	SM	CARVER STREET
117.4	SM	HIGH STREET
56.3	SM	PEARL STREET
126.7	SM	PROSPECT STREET
250.3	SM	ROSSITER STREET
109.9	SM	UNION STREET
226.1	SM	VT ROUTE 73 EAST
76.0	SM	VT ROUTE 73 WEST
377.2	SM	WEST SEMINARY STREET
749.5	SM	DRIVES
17.5	SM	ROUNDING
3050.0	SM	TOTAL

REV	DATE	DESCRIPTION
1	3/31/2017	REVISED REMOVING TREE/STUMP QUANTITIES TO REFLECT ADVANCED CUTTING

PROJECT NAME: BRANDON

PROJECT NUMBER: NH 019-3(496)

FILE NAME: zb008s6-qss.dgn
PROJECT LEADER: C. BEAN
DESIGNED BY: W. GORDON

PLOT DATE: 3/31/2017
DRAWN BY: W. GORDON
CHECKED BY: D. MUNRO
SHEET 11 OF 601

CLD 02-0448 MODEL: I

ISSUED FOR CONSTRUCTION

QUANTITY SHEET 2

Metric

SUMMARY OF ESTIMATED QUANTITIES

ROADWAY	ROADWAY (NO FED/STATE PART.)	TRAINING	LANDSCAPING	EROSION CONTROL	UTILITIES - SEWER	FULL C.E. ITEMS	UTILITIES - WATER	UTILITIES
38								
38								
38								
38								
10								
10								
84								
84								
84								
84								
4								
4								
820								
820								
820								
820								
10								
10								
73								
73								
73								
73								
67								
67								

TOTALS

GRAND TOTAL	FINAL
38	
38	
38	
38	
10	
10	
84	
84	
84	
84	
4	
4	
820	
820	
820	
820	
10	
10	
73	
73	
73	
73	
67	
67	

DESCRIPTIONS

UNIT	ITEMS	ITEM NUMBER	ROUND
	BEGIN OPTION AA		
M	300 CAAP 1.52 (68 X 12)	601.0205	2.1
M	300 PCCSP 1.63 (68 X 12)	601.0405	2.1
M	300 RCP CLASS III	601.0805	2.1
M	300 CPEP(SL)	601.2605	2.1
	END OPTION AA		
	BEGIN OPTION BB		
M	300 CAAP 1.52 (68 X 12)	601.0205	1.1
M	300 PCCSP 1.63 (68 X 12)	601.0405	1.1
	END OPTION BB		
	BEGIN OPTION CC		
M	375 CAAP 1.52 (68 X 12)	601.0210	3.6
M	375 PCCSP 1.63 (68 X 12)	601.0410	3.6
M	375 RCP CLASS III	601.0810	3.6
M	375 CPEP(SL)	601.2610	3.6
	END OPTION CC		
	BEGIN OPTION DD		
M	375 CAAP 1.52 (68 X 12)	601.0210	0.4
M	375 PCCSP 1.63 (68 X 12)	601.0410	0.4
	END OPTION DD		
	BEGIN OPTION EE		
M	450 CAAP 1.52 (68 X 12)	601.0215	15.4
M	450 PCCSP 1.63 (68 X 12)	601.0415	15.4
M	450 RCP CLASS III	601.0815	15.4
M	450 CPEP(SL)	601.2615	15.4
	END OPTION EE		
	BEGIN OPTION FF		
M	450 CAAP 1.52 (68 X 12)	601.0215	-
M	450 PCCSP 1.63 (68 X 12)	601.0415	-
	END OPTION FF		
	BEGIN OPTION GG		
M	600 CAAP 1.52 (68 X 12)	601.0225	3.8
M	600 PCCSP 1.63 (68 X 12)	601.0425	3.8
M	600 RCP CLASS III	601.0825	3.8
M	600 CPEP(SL)	601.2620	3.8
	END OPTION GG		
	BEGIN OPTION HH		
M	600 CAAP 1.52 (68 X 12)	601.0225	2.3
M	600 PCCSP 1.63 (68 X 12)	601.0425	2.3
	END OPTION HH		

DETAILED SUMMARY OF QUANTITIES

QUANTITIES	UNIT	ITEMS
		SUBBASE OF CRUSHED GRAVEL, FINE GRADED
151.0	CM	BRICK WALKWAYS
15.8	CM	FOUNTAINS
21.0	CM	LIGHTING PADS / JUNCTION BOXES
2.2	CM	ROUNDING
190.0	CM	TOTAL
		SUBBASE OF DENSE GRADED CRUSHED STONE
15446.4	CM	US ROUTE 7
327.0	CM	CARVER STREET
187.0	CM	HIGH STREET
620.6	CM	LOT A
400.0	CM	PEARL STREET
117.1	CM	PROSPECT STREET
106.3	CM	ROSSITER STREET
269.9	CM	UNION STREET
938.1	CM	VT ROUTE 73 EAST
658.5	CM	VT ROUTE 73 WEST
239.0	CM	WEST SEMINARY STREET
15.7	CM	UTILITY (VAULTS / EQUIP.)
20.4	CM	STORMWATER TREATMENT STRUCTURE #1
13.5	CM	STORMWATER TREATMENT STRUCTURE #2
15.5	CM	STORMWATER TREATMENT STRUCTURE #3
23.6	CM	STORMWATER TREATMENT STRUCTURE #4
126.5	CM	ROUNDING
19525.0	CM	TOTAL
		SUPERPAVE BITUMINOUS CONCRETE PAVEMENT
		US ROUTE 7
4660.0	TON	TYPE IIIS
8138.1	TON	TYPE IS
		CARVER STREET
107.0	TON	TYPE IVS
121.4	TON	TYPE IIS
		HIGH STREET
55.9	TON	TYPE IVS
67.0	TON	TYPE IIS
		LOT A
175.3	TON	TYPE IVS
262.8	TON	TYPE IIS
		PEARL STREET
85.4	TON	TYPE IVS
120.2	TON	TYPE IIS
		PROSPECT STREET
44.6	TON	TYPE IVS
48.5	TON	TYPE IIS
		ROSSITER STREET
46.8	TON	TYPE IVS
53.5	TON	TYPE IIS
		UNION STREET
67.0	TON	TYPE IVS
84.7	TON	TYPE IIS
		VT ROUTE 73 EAST
187.4	TON	TYPE IIIS
269.3	TON	TYPE IS
		VT ROUTE 73 WEST
99.1	TON	TYPE IIIS
149.3	TON	TYPE IS
		WEST SEMINARY STREET
73.9	TON	TYPE IVS
56.9	TON	TYPE IIS
8556.7	TON	SUBTOTAL TYPE IS
815.0	TON	SUBTOTAL TYPE IIS
4946.5	TON	SUBTOTAL TYPE IIIS
655.9	TON	SUBTOTAL TYPE IVS
25.9	TON	ROUNDING
15000.0	TON	TOTAL

PROJECT NAME: BRANDON
PROJECT NUMBER: NH 019-3(496)

FILE NAME: zb008s6-qss.dgn
PROJECT LEADER: C. BEAN
DESIGNED BY: W. GORDON

PLOT DATE: 2/23/2017
DRAWN BY: W. GORDON
CHECKED BY: D. MUNRO
SHEET 12 OF 601

CLD 02-0448 MODEL: 2

ISSUED FOR CONSTRUCTION

QUANTITY SHEET 3

Metric

SUMMARY OF ESTIMATED QUANTITIES

ROADWAY	ROADWAY (NO FED/STATE PART.)	TRAINING	LANDSCAPING	EROSION CONTROL	UTILITIES - SEWER	FULL C.E. ITEMS	UTILITIES - WATER	UTILITIES
14								
14								
14								
14								
54								
54								
28								
28								
4								
1.5								
3								
3								
138								
138								
55								
7								
735								
735								
55								
320								
320								
710								
710								

TOTALS

GRAND TOTAL	FINAL
14	
14	
14	
14	
54	
54	
28	
28	
4	
1.5	
3	
3	
138	
138	
55	
7	
735	
735	
55	
320	
320	
710	
710	

DESCRIPTIONS

UNIT	ITEMS	ITEM NUMBER	ROUND
	BEGIN OPTION II		
M	750 CAAP 1.91 (68 X 12)	601.0236	0.4
M	750 PCCSP 2.01 (68 X 12)	601.0436	0.4
M	750 RCP CLASS III	601.0835	0.4
M	750 CPEP(SL)	601.2625	0.4
	END OPTION II		
	BEGIN OPTION JJ		
M	750 CAAP 1.91 (68 X 12)	601.0236	2.7
M	750 PCCSP 2.01 (68 X 12)	601.0436	2.7
	END OPTION JJ		
	BEGIN OPTION KK		
M	900 CAAP 1.91 (68 X 12)	601.0246	1.5
M	900 PCCSP 2.01 (68 X 12)	601.0446	1.5
	END OPTION KK		
M	300 PCCSP 1.63 (68 X 12)	601.0405	0.4
M	750 PCCSP 2.01 (68 X 12)	601.0436	0.3
	BEGIN OPTION LL		
M	300 RCP CLASS III	601.0805	0.7
M	300 CPEP(SL)	601.2605	0.7
	END OPTION LL		
	BEGIN OPTION MM		
M	375 RCP CLASS III	601.0810	3.9
M	375 CPEP(SL)	601.2610	3.9
	END OPTION MM		
M	375 RCP CLASS IV	601.0811	1.2
M	450 RCP CLASS III	601.0815	0.5
	BEGIN OPTION NN		
M	450 RCP CLASS III	601.0815	15.8
M	450 CPEP(SL)	601.2615	15.8
	END OPTION NN		
M	450 RCP CLASS IV	601.0816	2.3
	BEGIN OPTION OO		
M	600 RCP CLASS III	601.0825	7
M	600 CPEP(SL)	601.2620	7
	END OPTION OO		
	BEGIN OPTION PP		
M	750 RCP CLASS III	601.0835	16.6
M	750 CPEP(SL)	601.2625	16.6
	END OPTION PP		

DETAILED SUMMARY OF QUANTITIES

QUANTITIES	UNIT	ITEMS
		CONCRETE, HIGH PERFORMANCE CLASS B
72.0	CM	RETAINING WALL #2
23.0	CM	RETAINING WALL #3
5.0	CM	CONCRETE DRIVES
0.0	CM	ROUNDING
100.0	CM	TOTAL
		REINFORCING STEEL, LEVEL I
3825.0	KG	RETAINING WALL #2
1350.0	KG	RETAINING WALL #3
1820.5	KG	DRAINAGE DETAIL SHEET (HEADWALLS)
117.7	KG	CONCRETE STEPS
901.8	KG	CONCRETE DRIVES
55.0	KG	ROUNDING
8070.0	KG	TOTAL
		CONCRETE, CLASS B
22.4	CM	DRAINAGE DETAIL SHEET (HEADWALLS)
23.0	CM	CONCRETE STEPS
4.6	CM	ROUNDING
50.0	CM	TOTAL
		TEMPORARY EROSION MATTING
492.0	SM	DITCHES
1160.0	SM	SLOPES
8.0	SM	ROUNDING
1660.0	SM	TOTAL

PROJECT NAME: BRANDON
PROJECT NUMBER: NH 019-3(496)

FILE NAME: zb008s6-qss.dgn
PROJECT LEADER: C. BEAN
DESIGNED BY: W. GORDON

PLOT DATE: 2/23/2017
DRAWN BY: W. GORDON
CHECKED BY: D. MUNRO
SHEET 13 OF 601

CLD 02-0448 MODEL: 3

ISSUED FOR CONSTRUCTION

QUANTITY SHEET 4

Metric

SUMMARY OF ESTIMATED QUANTITIES

ROADWAY	ROADWAY (NO FED/STATE PART.)	TRAINING	LANDSCAPING	EROSION CONTROL	UTILITIES - SEWER	FULL C.E. ITEMS	UTILITIES - WATER	UTILITIES
24								
24								
38								
46								
22								
84								
24								
2								
2								
2								
2								
6								
1								
1								
1								
1								
1								
1								
1								
1								
48								

TOTALS

GRAND TOTAL	FINAL
24	
24	
38	
46	
22	
84	
24	
2	
2	
2	
2	
6	
1	
1	
1	
1	
1	
1	
1	
1	
48	

DESCRIPTIONS

UNIT	ITEMS	ITEM NUMBER	ROUND
	BEGIN OPTION QQ		
M	900 RCP CLASS III	601.0845	1.6
M	900 CPEP(SL)	601.2630	1.6
	END OPTION QQ		
M	900 RCP CLASS IV	601.0846	0.8
M	1050 RCP CLASS III	601.0850	0.8
M	1500 RCP CLASS IV	601.0866	0.5
M	300 CPEP(SL)	601.2605	1.2
M	450 CPEP(SL)	601.2615	0.8
	BEGIN OPTION RR		
EACH	300 CAAP ELBOW 1.52 (68 X 12)	601.5205	-
EACH	300 PCCSP ELBOW 1.63 (68 X 12)	601.5405	-
	END OPTION RR		
	BEGIN OPTION SS		
EACH	600 CAAP ELBOW 1.52(68 X 12)	601.5225	-
EACH	600 PCCSP ELBOW 1.63 (68 X 12)	601.5425	-
	END OPTION SS		
EACH	300 CPEP ELBOW	601.5802	-
	BEGIN OPTION TT		
EACH	450 CSPES 1.63 (68 X 12)	601.6015	-
EACH	450 CAAPES 1.52 (68 X 12)	601.6215	-
	END OPTION TT		
	BEGIN OPTION UU		
EACH	900 CSPES 2.01 (68 X 12)	601.6046	-
EACH	900 CAAPES 1.91 (68 X 12)	601.6246	-
	END OPTION UU		
	BEGIN OPTION VV		
EACH	450 RCPES CLASS III	601.6815	-
EACH	450 CPEPES	601.7015	-
	END OPTION VV		
	BEGIN OPTION WW		
EACH	600 RCPES CLASS III	601.6825	-
EACH	600 CPEPES	601.7020	-
	END OPTION WW		
	BEGIN OPTION XX		
EACH	750 RCPES CLASS III	601.6835	-
EACH	750 CPEPES	601.7025	-
	END OPTION XX		
EACH	300 CPEPES	601.7005	-
M	CLEANING CULV. PIPE, IN-PLACE [0 TO 600 MM, INCL.]	601.995	-

DETAILED SUMMARY OF QUANTITIES

QUANTITIES	UNIT	ITEMS

PROJECT NAME: BRANDON
PROJECT NUMBER: NH 019-3(496)

FILE NAME: zb008s6-qss.dgn
PROJECT LEADER: C. BEAN
DESIGNED BY: W. GORDON

PLOT DATE: 2/23/2017
DRAWN BY: W. GORDON
CHECKED BY: D. MUNRO
SHEET 14 OF 601

CLD 02-0448 MODEL: 4

ISSUED FOR CONSTRUCTION

QUANTITY SHEET 5

Metric

SUMMARY OF ESTIMATED QUANTITIES

ROADWAY	ROADWAY (NO FED/STATE PART.)	TRAINING	LANDSCAPING	EROSION CONTROL	UTILITIES - SEWER	FULL C.E. ITEMS	UTILITIES - WATER	UTILITIES
210								
13								
10								
~~102~~ 100								2
43								
9								
2								
2								
2								
4								
2								
1								
2								
1								
3								
					2			
					47			
90								
2200								
65								
60								
43								
350								
20								
20								
40								
15								
20								
20								
7500								
13								
30								
100								
113								
4710								

TOTALS

GRAND TOTAL	FINAL
210	
13	
10	
~~102~~ 100	
43	
9	
2	
2	
2	
4	
2	
1	
2	
1	
3	
2	
47	
90	
2200	
65	
60	
43	
350	
20	
20	
40	
15	
20	
20	
7500	
13	
30	
100	
113	
4710	

DESCRIPTIONS

UNIT	ITEMS	ITEM NUMBER	ROUND
CM	DRY MASONRY (FIELDSTONE WALL)	602.20	1
SM	STONE MASONRY FACING	602.25	1
CM	REBUILT STONE MASONRY	602.35	1.6
EACH	PRECAST REINFORCED CONCRETE CATCH BASIN WITH CAST IRON GRATE (1200 mm DIA.)	604.20	-
EACH	PRECAST REINFORCED CONCRETE CATCH BASIN WITH CAST IRON GRATE (1500 mm DIA.)	604.20	-
EACH	PRECAST REINFORCED CONCRETE CATCH BASIN WITH CAST IRON GRATE (1800 mm DIA.)	604.20	-
EACH	PRECAST REINFORCED CONCRETE CATCH BASIN WITH CAST IRON GRATE (2100 mm DIA.)	604.20	-
EACH	PRECAST REINFORCED CONCRETE CATCH BASIN WITH CAST IRON GRATE (2400 mm DIA.)	604.20	-
EACH	PRECAST REINFORCED CONCRETE MANHOLE WITH CAST IRON COVER (1200 mm DIA.)	604.21	-
EACH	PRECAST REINFORCED CONCRETE MANHOLE WITH CAST IRON COVER (1500 mm DIA.)	604.21	-
EACH	PRECAST REINFORCED CONCRETE MANHOLE WITH CAST IRON COVER (1800 mm DIA.)	604.21	-
EACH	PRECAST REINFORCED CONCRETE MANHOLE WITH CAST IRON COVER (2100 mm DIA.)	604.21	-
EACH	PRECAST REINFORCED CONCRETE MANHOLE WITH CAST IRON COVER (2400 mm DIA.)	604.21	-
EACH	CHANGING ELEVATION OF DROP INLETS, CATCH BASINS, OR MANHOLES	604.40	-
EACH	REHAB. DROP INLETS, CATCH BASINS, OR MANHOLES, CLASS II	604.415	-
EACH	CHANGING ELEVATION OF SEWER MANHOLES	604.42	-
EACH	CAST IRON COVER WITH FRAME, SEWER	604.56	-
M	150 MM UNDERDRAIN PIPE	605.10	1.7
M	200 MM UNDERDRAIN PIPE	605.11	31.8
M	150 MM UNDERDRAIN CARRIER PIPE	605.20	EST.
M	200 MM UNDERDRAIN CARRIER PIPE	605.21	EST.
EACH	UNDERDRAIN FLUSHING BASIN	605.95	-
HR	ROADWAY PATROL MAINTENANCE	607.10	EST.
HR	BULLDOZER RENTAL, TYPE I	608.10	EST.
HR	POWER GRADER RENTAL	608.15	EST.
HR	ALL PURPOSE EXCAVATOR RENTAL, TYPE I	608.25	EST.
HR	POWER BROOM RENTAL, TYPE I	608.30	EST.
HR	TRUCK RENTAL	608.37	EST.
HR	LOADER RENTAL, TYPE I	608.40	EST.
CM	DUST CONTROL WITH WATER	609.10	EST.
T	DUST AND ICE CONTROL WITH CALCIUM CHLORIDE	609.15	EST.
CM	STONE FILL, TYPE I	613.10	1.6
CM	STONE FILL, TYPE II	613.11	1.3
M	GRANITE SLOPE EDGING	616.20	0.8
M	VERTICAL GRANITE CURB	616.21	21.8

DETAILED SUMMARY OF QUANTITIES

QUANTITIES	UNIT	ITEMS

REV	DATE	DESCRIPTION
2	4/6/2017	REVISED QUANTITY FOR ITEM 604.20.

PROJECT NAME: BRANDON
PROJECT NUMBER: NH 019-3(496)

FILE NAME: zb008s6-qss.dgn
PROJECT LEADER: C. BEAN
DESIGNED BY: W. GORDON

PLOT DATE: 4/6/2017
DRAWN BY: W. GORDON
CHECKED BY: D. MUNRO
SHEET 15 OF 601

CLD 02-0448 MODEL: 5

ISSUED FOR CONSTRUCTION

QUANTITY SHEET 6

Metric

SUMMARY OF ESTIMATED QUANTITIES									TOTALS		DESCRIPTIONS				DETAILED SUMMARY OF QUANTITIES		
	ROADWAY	ROADWAY (NO FED/STATE PART.)	TRAINING	LANDSCAPING	EROSION CONTROL	UTILITIES - SEWER	FULL C.E. ITEMS	UTILITIES - WATER	UTILITIES	GRAND TOTAL	FINAL	UNIT	ITEMS	ITEM NUMBER	ROUND	QUANTITIES	UNIT	ITEMS
	270									270		M	REMOVING AND RESETTING CURB	616.40	1.7			
	380									380		M	REMOVAL OF EXISTING CURB (SALVAGE MARBLE CURB TO TOWN)	616.41	EST.			
	2									2		T	BITUMINOUS CONCRETE GUTTERS AND TRAFFIC ISLANDS	616.47	0.1			
	1									1		EACH	RELOCATE MAILBOX, SINGLE SUPPORT	617.10	-			
	6570									6570		SM	PORTLAND CEMENT CONCRETE SIDEWALK, 125 MM	618.10	21.9			
	450									450		SM	PORTLAND CEMENT CONCRETE SIDEWALK, 200 MM	618.11	10.8			
	27									27		T	BITUMINOUS CONCRETE SIDEWALK	618.15	0.6			
	44									44		SM	DETECTABLE WARNING SURFACE	618.30	0.6			
	50									50		EACH	BOUNDARY MARKERS	619.10	-			
	6									6		EACH	YIELDING MARKER POSTS	619.17	-			
	20									20		EACH	REMOVING AND RESETTING PROPERTY MARKERS	619.20	EST.			
	15									15		M	WOVEN WIRE FENCE WITH STEEL POSTS	620.25	2.5			
	6									6		EACH	STEEL BRACE FOR WOVEN WIRE FENCE	620.40	-			
	1									1		EACH	WOOD BRACE FOR WOVEN WIRE FENCE	620.41	-			
	32									32		M	REMOVING AND RESETTING FENCE	620.50	0.4			
	28									28		M	REMOVAL OF EXISTING FENCE	620.55	1.1			
	7									7		M	STEEL BEAM GUARDRAIL, GALVANIZED	621.20	0.7			
	2.2									2.2		M	BOX BEAM GUARDRAIL (COATED BLACK)	621.30	-			
	1									1		EACH	GUARDRAIL APPROACH SECTION, GALVANIZED 3 RAIL BOX BEAM (COATED BLACK)	621.725	-			
	14									14		M	REMOVE AND RESET GUARDRAIL	621.75	-			
	7									7		M	REMOVAL AND DISPOSAL OF GUARDRAIL	621.80	0.7			
	3									3		EACH	REMOVAL AND DISPOSAL OF GUIDE POSTS	621.81	-			
							2	33		35		CM	INSULATION BOARD	622.10	0.9			
	8									8		M	PVC SEWER PIPE (100 mm)	628.35	0.4			
	24									24		M	PVC SEWER PIPE (150 mm)	628.35	1.5			
	10									10		M	PVC SEWER PIPE (200 mm)	628.35	0.6			
	3									3		M	PVC SEWER PIPE (300 mm)	628.35	0.6			
						1				1		LS	TRANSFER TO NEW SYSTEM, SANITARY SEWER	628.42	-			
							129			129		EACH	EXTENSION SERVICE BOX AND CURB STOP (25 mm)	629.25	-			
							5			5		EACH	EXTENSION SERVICE BOX AND CURB STOP (50 mm)	629.25	-			
							26			26		EACH	GATE VALVE WITH VALVE BOX (100 mm)	629.27	-			
							33			33		EACH	GATE VALVE WITH VALVE BOX (150 mm)	629.27	-			
							12			12		EACH	GATE VALVE WITH VALVE BOX (200 mm)	629.27	-			
							8			8		EACH	GATE VALVE WITH VALVE BOX (300 mm)	629.27	-			
							15			15		EACH	REMOVE HYDRANT	629.30	-			
							139			139		EACH	CORPORATION STOP (25 mm)	629.39	-			
							5			5		EACH	CORPORATION STOP (50 mm)	629.39	-			
							1			1		LS	TRANSFER TO NEW SYSTEM, WATER SYSTEM	629.42	-			
	1900									1900		HR	UNIFORMED TRAFFIC OFFICERS	630.10	EST.			
	9400									9400		HR	FLAGGERS	630.15	EST.			

PROJECT NAME: BRANDON
PROJECT NUMBER: NH 019-3(496)

FILE NAME: zb008s6-qss.dgn
PROJECT LEADER: C. BEAN
DESIGNED BY: W. GORDON

PLOT DATE: 2/23/2017
DRAWN BY: W. GORDON
CHECKED BY: D. MUNRO
SHEET 16 OF 601

CLD 02-0448 MODEL: 6

ISSUED FOR CONSTRUCTION

QUANTITY SHEET 7

Metric

SUMMARY OF ESTIMATED QUANTITIES									TOTALS		DESCRIPTIONS				DETAILED SUMMARY OF QUANTITIES		
ROADWAY	ROADWAY (NO FED/STATE PART.)	TRAINING	LANDSCAPING	EROSION CONTROL	UTILITIES - SEWER	FULL C.E. ITEMS	UTILITIES - WATER	UTILITIES	GRAND TOTAL	FINAL	UNIT	ITEMS	ITEM NUMBER	ROUND	QUANTITIES	UNIT	ITEMS
						1			1		LS	FIELD OFFICE, ENGINEERS	631.10	-			
						1			1		LS	TESTING EQUIPMENT, CONCRETE	631.16	-			
						1			1		LS	TESTING EQUIPMENT, BITUMINOUS	631.17	-			
						6000			6000		DL	FIELD OFFICE TELEPHONE (N.A.B.I.)	631.26	-			
		1040							1040		HR	EMPLOYEE TRAINEESHIP	634.10	-			
1									1		LS	MOBILIZATION/DEMOBILIZATION	635.11	-			
6									6		EACH	PORTABLE CHANGEABLE MESSAGE SIGN	641.15	-			
2									2		EACH	PORTABLE ARROW BOARD	641.16	-			
5800									5800		M	DURABLE 100 MM WHITE LINE, RECESSED POLYUREA	646.406	6.9			
5650									5650		M	DURABLE 100 MM YELLOW LINE, RECESSED POLYUREA	646.416	16.4			
90									90		M	DURABLE 200 MM YELLOW LINE, RECESSED POLYUREA	646.456	1.4			
100									100		M	DURABLE 600 MM STOP BAR, RECESSED POLYUREA	646.486	4.9			
109									109		EACH	DURABLE LETTER OR SYMBOL, RECESSED POLYUREA	646.496	-			
300									300		M	DURABLE CROSSWALK MARKING, RECESSED POLYUREA	646.506	4			
10250									10250		M	TEMPORARY 100 MM WHITE LINE	646.600	45			
9600									9600		M	TEMPORARY 100 MM YELLOW LINE	646.610	14.3			
130									130		M	TEMPORARY 600 MM STOP BAR	646.680	3.1			
131									131		EACH	TEMPORARY LETTER OR SYMBOL	646.690	-			
445									445		M	TEMPORARY CROSSWALK MARKING	646.700	1.6			
4150									4150		EACH	LINE STRIPING TARGETS	646.76	1			
370									370		SM	GEOTEXTILE UNDER STONE FILL	649.31	8.3			
				10					10		SM	GEOTEXTILE FOR SILT FENCE	649.51	3.1			
				60					60		SM	GEOTEXTILE FOR SILT FENCE, WOVEN WIRE REINFORCED	649.515	2			
				165					165		KG	SEED	651.15	4.6			
				1000					1000		KG	FERTILIZER	651.18	1.9			
				8.1					8.1		T	AGRICULTURAL LIMESTONE	651.20	0.08			
				8.1					8.1		T	HAY MULCH	651.25	0.08			
1600									1600		CM	TOPSOIL	651.35	33.2			
				1					1		LS	EPSC PLAN	652.10	-			
				650					650		HR	MONITORING EPSC PLAN	652.20	EST.			
				1					1		LU	MAINTENANCE OF EPSC PLAN (N.A.B.I.)	652.30	-			
				1660					1660		SM	TEMPORARY EROSION MATTING	653.20	8			
				25					25		CM	TEMPORARY STONE CHECK DAM, TYPE I	653.25	2.2			
				167					167		EACH	INLET PROTECTION DEVICE, TYPE I	653.40	-			
				1					1		EACH	FILTER BAG	653.45	-			
				80					80		M	BARRIER FENCE	653.50	9.5			
				3310					3310		M	PROJECT DEMARCATION FENCE	653.55	2.1			
			1						1		EACH	EVERGREEN TREES (SELECT BLUE SPRUCE)	656.20	-			
			1						1		EACH	EVERGREEN TREES (WHITE SPRUCE)	656.20	-			
			80						80		EACH	EVERGREEN SHRUBS (EVERLOW YEW)	656.25	-			

PROJECT NAME: BRANDON
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FILE NAME: zb008s6-qss.dgn
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DESIGNED BY: W. GORDON

PLOT DATE: 2/23/2017
DRAWN BY: W. GORDON
CHECKED BY: D. MUNRO
SHEET 17 OF 601

CLD 02-0448 MODEL: 7

ISSUED FOR CONSTRUCTION

QUANTITY SHEET 8

Metric

SUMMARY OF ESTIMATED QUANTITIES

ROADWAY	ROADWAY (NO FED/STATE PART.)	TRAINING	LANDSCAPING	EROSION CONTROL	UTILITIES - SEWER	FULL C.E. ITEMS	UTILITIES - WATER	UTILITIES	GRAND TOTAL	FINAL	UNIT	ITEMS	ITEM NUMBER	ROUND
			14						14		EACH	DECIDUOUS TREES (ADIRONDACK CRABAPPLE)	656.30	-
			10						10		EACH	DECIDUOUS TREES (ARMSTRONG MAPLE)	656.30	-
			14						14		EACH	DECIDUOUS TREES (AUTUMN BLAZE MAPLE)	656.30	-
			19						19		EACH	DECIDUOUS TREES (CELEBRATION MAPLE)	656.30	-
			3						3		EACH	DECIDUOUS TREES (CHANTICLEER FLOWERING PEAR)	656.30	-
			7						7		EACH	DECIDUOUS TREES (COLUMINAR SARGENT CHERRY)	656.30	-
			6						6		EACH	DECIDUOUS TREES (COMMON HACKBERRY)	656.30	-
			6						6		EACH	DECIDUOUS TREES (HERITAGE RIVER BIRCH)	656.30	-
			34						34		EACH	DECIDUOUS TREES (JAPANESE TREE LILAC)	656.30	-
			22						22		EACH	DECIDUOUS TREES (PRINCETON AMERICAN ELM)	656.30	-
			6						6		EACH	DECIDUOUS TREES (RED OAK)	656.30	-
			3						3		EACH	DECIDUOUS TREES (ROBIN HILL SERVICEBERRY)	656.30	-
			6						6		EACH	DECIDUOUS TREES (SKYLINE HONEYLOCUST)	656.30	-
			13						13		EACH	DECIDUOUS TREES (STARBURST AMUR MAACKIA)	656.30	-
			3						3		EACH	DECIDUOUS TREES (SUGAR MAPLE)	656.30	-
			17						17		EACH	DECIDUOUS TREES (SUGER TYME CRABAPPLE)	656.30	-
			15						15		EACH	DECIDUOUS TREES (TRIUMPH ELM)	656.30	-
			4						4		EACH	DECIDUOUS SHRUBS (ANTHONY WATERER SPIREA)	656.35	-
			8						8		EACH	DECIDUOUS SHRUBS (DONALD WYMAN LILAC)	656.35	-
			10						10		EACH	DECIDUOUS SHRUBS (HUMMINGBIRD SUMMERSWEET)	656.35	-
			9						9		EACH	DECIDUOUS SHRUBS (MINUET WEIGELA)	656.35	-
			34						34		EACH	DECIDUOUS SHRUBS (SHAMROCK INKBERRY)	656.35	-
			9						9		EACH	DECIDUOUS SHRUBS (SHIBORI SPIREA)	656.35	-
			12						12		EACH	DECIDUOUS SHRUBS (SWEETFERN)	656.35	-
			17						17		EACH	DECIDUOUS SHRUBS (SWEETGALE)	656.35	-
			392						392		EACH	GROUND COVERS AND VINES (BEARBERRY)	656.40	-
			54						54		EACH	GROUND COVERS AND VINES (MYRTLE)	656.40	-
			13						13		EACH	PERENNIALS (ASTILBE 'DEUTCHLAND)	656.41	-
			13						13		EACH	PERENNIALS (ASTILBE 'FANAL)	656.41	-
			24						24		EACH	PERENNIALS (ASTILBE 'RHEINLAND)	656.41	-
			73						73		EACH	PERENNIALS (BLACK-EYED SUSAN)	656.41	-
			105						105		EACH	PERENNIALS (CATMINT)	656.41	-
			18						18		EACH	PERENNIALS (COREOPSIS)	656.41	-
			169						169		EACH	PERENNIALS (DAYLILIES MIX)	656.41	-
			42						42		EACH	PERENNIALS (HARDY GERANIUM)	656.41	-
			30						30		EACH	PERENNIALS (HOSTA)	656.41	-
			53						53		EACH	PERENNIALS (PINK COREOPSIS)	656.41	-
			207						207		EACH	PERENNIALS (STELLA D'ORA DAYLILIES)	656.41	-
			1						1		EACH	TRANSPLANTING TREES	656.45	-
			1250						1250		CM	LANDSCAPE WATERING	656.65	23

DETAILED SUMMARY OF QUANTITIES

QUANTITIES	UNIT	ITEMS

PROJECT NAME: BRANDON
PROJECT NUMBER: NH 019-3(496)

FILE NAME: zb008s6-qss.dgn
PROJECT LEADER: C. BEAN
DESIGNED BY: W. GORDON

PLOT DATE: 2/23/2017
DRAWN BY: W. GORDON
CHECKED BY: D. MUNRO

CLD 02-0448 MODEL: 8

ISSUED FOR CONSTRUCTION

QUANTITY SHEET 9

Metric

SUMMARY OF ESTIMATED QUANTITIES									TOTALS		DESCRIPTIONS				DETAILED SUMMARY OF QUANTITIES		
	ROADWAY	ROADWAY (NO FED/STATE PART.)	TRAINING	LANDSCAPING	EROSION CONTROL	UTILITIES - SEWER	FULL C.E. ITEMS	UTILITIES - WATER	UTILITIES	GRAND TOTAL	FINAL	UNIT	ITEMS	ITEM NUMBER	ROUND	QUANTITIES	UNIT	ITEMS
				3650						3650		CM	LANDSCAPE BACKFILL, TRUCK MEASUREMENT	656.80	20.8			
				1						1		LS	TREE PROTECTION	656.85	-			
	71									71		SM	TRAFFIC SIGNS, TYPE A	675.20	0.71			
	64									64		KG	TUBULAR STEEL SIGN POST	675.33	0.7			
	490									490		M	SQUARE TUBE SIGN POST AND ANCHOR	675.341	4.4			
	1									1		EACH	FOUNDATION FOR TUBULAR STEEL POST	675.43	-			
	240									240		EACH	REMOVING SIGNS	675.50	-			
	15									15		EACH	ERECTING SALVAGED SIGNS	675.60	-			
	1									1		EACH	TRAFFIC CONTROL SIGNAL SYSTEM, INTERSECTION (UNION & CARVER AT US 7)	678.15	-			
	1									1		EACH	TRAFFIC CONTROL SIGNAL SYSTEM, INTERSECTION (VT 73 EAST AT US 7)	678.15	-			
	4								396	400		M	ELECTRICAL CONDUIT (100 mm) (SCHEDULE 80 PVC)	678.21	-			
									135	135		M	ELECTRICAL CONDUIT (150 mm) (SCHEDULE 80 PVC)	678.21	3			
	374								11	385		M	ELECTRICAL CONDUIT (50 mm) (SCHEDULE 80 PVC)	678.21	6			
									11	11		M	ELECTRICAL CONDUIT (75 mm) (SCHEDULE 80 PVC)	678.21	-			
	45									45		M	WIRED CONDUIT (100 mm) (SCHEDULE 80 PVC)	678.23	3.5			
	2310									2310		M	WIRED CONDUIT (50 mm) (SCHEDULE 80 PVC)	678.23	6			
	33									33		M	WIRED CONDUIT (75 mm) (SCHEDULE 80 PVC)	678.23	2			
	45									45		M	ELECTRICAL WIRING	678.24	0.5			
	210									210		M	ELECTRICAL CONDUIT SLEEVE (100 mm) (SCHEDULE 80 PVC)	678.30	4.7			
	80									80		M	ELECTRICAL CONDUIT SLEEVE (200 mm) (SCHEDULE 80 PVC)	678.30	3.7			
	48									48		M	ELECTRICAL CONDUIT SLEEVE (250 mm) (SCHEDULE 80 PVC)	678.30	2.9			
	3									3		EACH	REMOVE STREET LIGHT ASSEMBLY	679.24	-			
	2									2		EACH	REMOVE AND RESET LIGHT POLE	679.25	-			
	1									1		LU	PRICE ADJUSTMENT, FUEL (N.A.B.I.)	690.50	-			
	980									980		CM	SPECIAL PROVISION (CU STRUCTURAL SOIL)	900.608	9.8			
	110									110		CM	SPECIAL PROVISION (E-STONE, TYPE E2)	900.608	4.6			
	175									175		CM	SPECIAL PROVISION (E-STONE, TYPE E4)	900.608	2.6			
		4000								4000		CM	SPECIAL PROVISION (EXCAVATION OF PETROLEUM CONTAMINATED SOILS CLASS I)	900.608	EST.			
		500								500		CM	SPECIAL PROVISION (EXCAVATION OF PETROLEUM CONTAMINATED SOILS CLASS II)	900.608	EST.			
		500								500		CM	SPECIAL PROVISION (EXCAVATION OF PETROLEUM CONTAMINATED SOILS CLASS III)	900.608	EST.			
	6									6		EACH	SPECIAL PROVISION (BICYCLE RACK)	900.620	-			
								5		5		EACH	SPECIAL PROVISION (BUTTERFLY VALVE WITH VALVE BOX) (400 mm)	900.620	-			
									4	4		EACH	SPECIAL PROVISION (CHANGING ELEVATION OF UTILITY MANHOLE)	900.620	-			
	30									30		EACH	SPECIAL PROVISION (CPM SCHEDULE)	900.620	EST.			
	2									2		EACH	SPECIAL PROVISION (DEBRIS RACK, TYPE A)	900.620	-			
	3									3		EACH	SPECIAL PROVISION (DEBRIS RACK, TYPE B)	900.620	-			
									2	2		EACH	SPECIAL PROVISION (ELECTRIC VAULT)	900.620	-			
	1									1		EACH	SPECIAL PROVISION (ELECTRICAL DISTRIBUTION PANEL)	900.620	-			
								8		8		EACH	SPECIAL PROVISION (FKM GASKET) (200 mm)	900.620	EST.			

CLD 02-0448 MODEL: 9

PROJECT NAME: BRANDON
PROJECT NUMBER: NH 019-3(496)

FILE NAME: zb008s6-qss.dgn
PROJECT LEADER: C. BEAN
DESIGNED BY: W. GORDON

PLOT DATE: 2/23/2017
DRAWN BY: W. GORDON
CHECKED BY: D. MUNRO
SHEET 19 OF 601

QUANTITY SHEET 10

ISSUED FOR CONSTRUCTION

VDOT Metric

SUMMARY OF ESTIMATED QUANTITIES									TOTALS		DESCRIPTIONS				DETAILED SUMMARY OF QUANTITIES		
ROADWAY	ROADWAY (NO FED/STATE PART.)	TRAINING	LANDSCAPING	EROSION CONTROL	UTILITIES - SEWER	FULL C.E. ITEMS	UTILITIES - WATER	UTILITIES	GRAND TOTAL	FINAL	UNIT	ITEMS	ITEM NUMBER	ROUND	QUANTITIES	UNIT	ITEMS
							15		15		EACH	SPECIAL PROVISION (FKM GASKET) (300 mm)	900.620	EST.			
							22		22		EACH	SPECIAL PROVISION (FKM GASKET) (400 mm)	900.620	EST.			
11									11		EACH	SPECIAL PROVISION (GRANITE BOLLARD)	900.620	-			
30									30		EACH	SPECIAL PROVISION (JUNCTION BOX, HEAVY DUTY)	900.620	-			
2									2		EACH	SPECIAL PROVISION (LIGHTING PANEL BOARD AND CABINET)	900.620	-			
							23		23		EACH	SPECIAL PROVISION (MUELLER HYDRANT)	900.620	-			
44									44		EACH	SPECIAL PROVISION (ORNAMENTAL STREET LIGHT ASSEMBLY, TYPE A)	900.620	-			
22									22		EACH	SPECIAL PROVISION (ORNAMENTAL STREET LIGHT ASSEMBLY, TYPE B)	900.620	-			
6									6		EACH	SPECIAL PROVISION (ORNAMENTAL STREET LIGHT ASSEMBLY, TYPE C)	900.620	-			
17									17		EACH	SPECIAL PROVISION (PARK BENCH)	900.620	-			
1									1		EACH	SPECIAL PROVISION (RELOCATE MONUMENT)	900.620	-			
1									1		EACH	SPECIAL PROVISION (REMOVE AND RESET FLAG POLE)	900.620	-			
2									2		EACH	SPECIAL PROVISION (REMOVE AND RESET MARBLE SLAB)	900.620	-			
2									2		EACH	SPECIAL PROVISION (REMOVE AND RESET STONE POST)	900.620	-			
2									2		EACH	SPECIAL PROVISION (REMOVE AND RESET USPS MAILBOX)	900.620	-			
8									8		EACH	SPECIAL PROVISION (REMOVE BENCH)	900.620	-			
								5	5		EACH	SPECIAL PROVISION (REMOVE TELEPHONE VAULT)	900.620	-			
1									1		EACH	SPECIAL PROVISION (REMOVE USGS BENCHMARK)	900.620	-			
					41				41		EACH	SPECIAL PROVISION (SANITARY MANHOLE, ALL-INCLUSIVE) (1200 mm DIA.)	900.620	-			
					4				4		EACH	SPECIAL PROVISION (SANITARY MANHOLE, ALL-INCLUSIVE) (1500 mm DIA.)	900.620	-			
					3				3		EACH	SPECIAL PROVISION (SANITARY MANHOLE, ALL-INCLUSIVE) (1800 mm DIA.)	900.620	-			
3									3		EACH	SPECIAL PROVISION (SOIL BEARING SLIP BASE) (2 1/2")	900.620	-			
								1	1		EACH	SPECIAL PROVISION (TELEPHONE VAULT)	900.620	-			
6									6		EACH	SPECIAL PROVISION (TRASH RECEPTACLE)	900.620	-			
			12						12		EACH	SPECIAL PROVISION (TREE GRATE, 1.8m X 1.2m)	900.620	-			
			4						4		EACH	SPECIAL PROVISION (TREE GRATE, 1.8m X 1.8m)	900.620	-			
			16						16		EACH	SPECIAL PROVISION (TREE GUARD)	900.620	-			
								2	2		EACH	SPECIAL PROVISION (UTILITY HANDHOLE)	900.620	-			
91									91		M	SPECIAL PROVISION (1350 mm RCP CLASS III)	900.640	0.9			
					55				55		M	SPECIAL PROVISION (C-900 PVC, ALL-INCLUSIVE) (150 mm SEWER FORCE MAIN)	900.640	4.6			
					~~40~~ 100			5	~~40~~ 100		M	SPECIAL PROVISION (C-900 PVC, ALL-INCLUSIVE) (200 mm SEWER)	900.640	~~3.5~~ EST.			
					~~230~~ 100			5	~~230~~ 100		M	SPECIAL PROVISION (C-900 PVC, ALL-INCLUSIVE) (250 mm SEWER)	900.640	EST.			
								205	205		M	SPECIAL PROVISION (CONCRETE ENCASED DUCT BANK) (1-4 CONDUIT)	900.640	2.3			
								290	290		M	SPECIAL PROVISION (CONCRETE ENCASED DUCT BANK) (5-8 CONDUIT)	900.640	3.1			
								60	60		M	SPECIAL PROVISION (CONCRETE ENCASED DUCT BANK) (9+ CONDUIT)	900.640	2.4			
								90	90		M	SPECIAL PROVISION (DIRECT BURIAL DUCT BANK) (1-4 CONDUIT)	900.640	4.1			
							15		15		M	SPECIAL PROVISION (DUCTILE IRON PIPE, CEMENT-LINED, ALL-INCLUSIVE) (100 mm WATER)	900.640	EST.			
							360		360		M	SPECIAL PROVISION (DUCTILE IRON PIPE, CEMENT-LINED, ALL-INCLUSIVE) (150 mm WATER)	900.640	5.6			
							1175		1175		M	SPECIAL PROVISION (DUCTILE IRON PIPE, CEMENT-LINED, ALL-INCLUSIVE) (200 mm WATER)	900.640	13.4			

REV	DATE	DESCRIPTION
5	4/13/2017	REVISED QUANTITIES OF C-900 PVC SEWER

PROJECT NAME: BRANDON
PROJECT NUMBER: NH 019-3(496)

FILE NAME: zb008s6-qss.dgn
PROJECT LEADER: C. BEAN
DESIGNED BY: W. GORDON

PLOT DATE: 4/12/2017
DRAWN BY: W. GORDON
CHECKED BY: D. MUNRO
SHEET 20 OF 601

CLD 02-0448 MODEL: 10

QUANTITY SHEET 11

ISSUED FOR CONSTRUCTION

VAOT Metric

SUMMARY OF ESTIMATED QUANTITIES									TOTALS		DESCRIPTIONS				DETAILED SUMMARY OF QUANTITIES		
	ROADWAY	ROADWAY (NO FED/STATE PART.)	TRAINING	LANDSCAPING	EROSION CONTROL	UTILITIES - SEWER	FULL C.E. ITEMS	UTILITIES - WATER	UTILITIES	GRAND TOTAL	FINAL	UNIT	ITEMS	ITEM NUMBER	ROUND	QUANTITIES	UNIT	ITEMS
								870		870		M	SPECIAL PROVISION (DUCTILE IRON PIPE, CEMENT-LINED, ALL-INCLUSIVE) (300 mm WATER)	900.640	6.3			
						15				15		M	SPECIAL PROVISION (DUCTILE IRON PIPE, CEMENT-LINED, ALL-INCLUSIVE) (400 mm SEWER)	900.640	3.2			
								515		515		M	SPECIAL PROVISION (DUCTILE IRON PIPE, CEMENT-LINED, ALL-INCLUSIVE) (400 mm WATER)	900.640	8.2			
	30									30		M	SPECIAL PROVISION (MARBLE EDGING)	900.640	EST.			
	62									62		M	SPECIAL PROVISION (METAL HAND RAILING)	900.640	1			
	35									35		M	SPECIAL PROVISION (REMOVAL OF EXISTING HAND RAILING)	900.640	1.9			
						45				45		M	SPECIAL PROVISION (SDR-35 PVC, ALL-INCLUSIVE) (100 mm SEWER)	900.640	1.7			
						640				640		M	SPECIAL PROVISION (SDR-35 PVC, ALL-INCLUSIVE) (150 mm SEWER SERVICE)	900.640	EST.			
						30				30		M	SPECIAL PROVISION (SDR-35 PVC, ALL-INCLUSIVE) (200 mm SEWER SERVICE)	900.640	EST.			
						1250				1250		M	SPECIAL PROVISION (SDR-35 PVC, ALL-INCLUSIVE) (200 mm SEWER)	900.640	7.2			
						460				460		M	SPECIAL PROVISION (SDR-35 PVC, ALL-INCLUSIVE) (250 mm SEWER)	900.640	7			
						135				135		M	SPECIAL PROVISION (SDR-35 PVC, ALL-INCLUSIVE) (375 mm SEWER)	900.640	4.9			
								1930		1930		M	SPECIAL PROVISION (SEAMLESS COPPER WATER TUBE, ALL-INCLUSIVE) (25 mm)	900.640	EST.			
								70		70		M	SPECIAL PROVISION (SEAMLESS COPPER WATER TUBE, ALL-INCLUSIVE) (50 mm)	900.640	EST.			
	44									44		M	SPECIAL PROVISION (SQUARE STEEL FENCE)	900.640	0.7			
						200				200		M	SPECIAL PROVISION (TRANSITE PIPE REMOVAL)	900.640	EST.			
	20									20		M	SPECIAL PROVISION (WIRED CONCRETE ENCASED DUCT BANK) (5-8 CONDUIT)	900.640	3			
	1									1		LS	SPECIAL PROVISION (BRACKET ARM TOOLING)	900.645	-			
	1									1		LS	SPECIAL PROVISION (BUILDING INSPECTIONS/VIBRATION MONITORING)	900.645	-			
	1									1		LS	SPECIAL PROVISION (RECONSTRUCT FOUNTAIN #1)	900.645	-			
	1									1		LS	SPECIAL PROVISION (RECONSTRUCT FOUNTAIN #2)	900.645	-			
	1									1		LS	SPECIAL PROVISION (RECONSTRUCT FOUNTAIN #3)	900.645	-			
	1									1		LS	SPECIAL PROVISION (RELOCATE GAZEBO)	900.645	-			
	1									1		LS	SPECIAL PROVISION (REMOVE PENSTOCK)	900.645	-			
	1									1		LS	SPECIAL PROVISION (STORMWATER TREATMENT STRUCTURE #1)	900.645	-			
	1									1		LS	SPECIAL PROVISION (STORMWATER TREATMENT STRUCTURE #2)	900.645	-			
	1									1		LS	SPECIAL PROVISION (STORMWATER TREATMENT STRUCTURE #3)	900.645	-			
	1									1		LS	SPECIAL PROVISION (STORMWATER TREATMENT STRUCTURE #4)	900.645	-			
	1									1		LS	SPECIAL PROVISION (TEMPORARY LIGHTING)	900.645	-			
	1									1		LS	SPECIAL PROVISION (TRAFFIC CONTROL, ALL-INCLUSIVE)	900.645	-			
	1200									1200		SM	SPECIAL PROVISION (BRICK PAVING)	900.675	20			
	115									115		SM	SPECIAL PROVISION (FIBER REINFORCED PORTLAND CEMENT CONCRETE SIDEWALK, 125 mm)	900.675	EST.			
	45									45		SM	SPECIAL PROVISION (FIBER REINFORCED PORTLAND CEMENT CONCRETE SIDEWALK, 200 mm)	900.675	3.9			
	26									26		SM	SPECIAL PROVISION (GRANITE SETTS)	900.675	1.1			
	4850									4850		SM	SPECIAL PROVISION (HAND-PLACED BITUMINOUS CONCRETE MATERIAL, DRIVES)	900.675	22			
	800									800		SM	SPECIAL PROVISION (IMPRINTED/COLORIZED SURFACE)	900.675	3.6			
	0.2									0.2		SM	SPECIAL PROVISION (MARBLE WALKWAY)	900.675	-			

CLD 02-0448 MODEL: II

PROJECT NAME: BRANDON
PROJECT NUMBER: NH 019-3(496)

FILE NAME: zb008s6-qss.dgn
PROJECT LEADER: C. BEAN
DESIGNED BY: W. GORDON

PLOT DATE: 2/23/2017
DRAWN BY: W. GORDON
CHECKED BY: D. MUNRO
SHEET 21 OF 601

QUANTITY SHEET 12

ISSUED FOR CONSTRUCTION

VAOT Metric

SUMMARY OF ESTIMATED QUANTITIES									TOTALS		DESCRIPTIONS				DETAILED SUMMARY OF QUANTITIES		
	ROADWAY	ROADWAY (NO FED/STATE PART.)	TRAINING	LANDSCAPING	EROSION CONTROL	UTILITIES - SEWER	FULL C.E. ITEMS	UTILITIES - WATER	UTILITIES	GRAND TOTAL	FINAL	UNIT	ITEMS	ITEM NUMBER	ROUND	QUANTITIES	UNIT	ITEMS
	15									15		SM	SPECIAL PROVISION (REMOVE AND RESET BRICK WALKWAY)	900.675	2.8			
	22									22		SM	SPECIAL PROVISION (REMOVE AND RESET STONE WALKWAY)	900.675	1.1			

PROJECT NAME:	BRANDON
PROJECT NUMBER:	NH 019-3(496)

FILE NAME: zb008s6-qss.dgn	PLOT DATE: 2/23/2017
PROJECT LEADER: C. BEAN	DRAWN BY: W. GORDON
DESIGNED BY: W. GORDON	CHECKED BY: D. MUNRO
	SHEET 22 OF 601

CLD 02-0448 MODEL: 12

ITEM DETAIL SHEET 1

ISSUED FOR CONSTRUCTION

Metric

CURB

BEGIN STATION km + m	END STATION km + m	POSITION LEFT m	POSITION RIGHT m	REMARKS
VERTICAL GRANITE CURB				
US 7				
20+791.8	20+828.0		36.3	
20+840.8	20+859.4		18.6	
20+872.0	20+879.8	7.8		
20+872.1	40+018.3		27.9	
20+885.1	20+901.7	16.5		
20+886.0	20+901.0	15.0		BHND SWLK
HIGH ST				
40+025.8	40+035.1		9.5	
40+030.0	20+986.6		108.8	LT/RT
40+030.0	40+040.0	10.6		175 - 100 mm
40+040.0	40+053.3	13.3		100 mm
40+040.5	40+052.0		11.5	
US 7				
20+907.1	20+920.8	13.7		
20+926.1	20+951.9	25.7		
20+957.3	20+997.4	40.0		
20+987.0	20+991.2		7.1	DRIVE
20+992.5	21+036.6		44.0	
21+005.1	21+010.6	5.5		
21+015.4	21+026.1	10.7		
21+033.9	21+043.7	9.8		
21+041.9	21+089.6		47.8	
21+049.1	21+072.3	23.2		
21+077.6	21+102.1	23.8		
21+095.0	21+115.3		21.1	
21+108.2	21+171.8	62.6		
21+120.4	21+132.5		12.3	
21+137.8	21+185.7		47.9	
21+181.6	21+198.1	16.5		
21+190.2	21+195.5		5.3	ISLAND
21+191.0	21+194.6		3.6	
21+203.5	21+219.5	16.0		
21+212.4	21+221.7		9.2	
21+224.8	21+252.5	27.6		
21+227.0	21+239.4		12.4	
21+247.1	21+271.2		24.1	
21+257.8	21+293.6	35.8		
21+276.6	21+299.6		23.1	
21+302.8	21+320.4	17.7		SWLK
21+303.6	21+319.6	15.9		

SIDEWALK

BEGIN STATION km + m	END STATION km + m	POSITION LEFT m^2	POSITION RIGHT m^2	REMARKS
PORTLAND CEMENT CONCRETE SIDEWALK, 125 mm				
US 7				
20+871.7	21+024.9	239.3		
20+885.2	20+887.7	1.6		
HIGH ST				
40+052.4	21+194.0		523.2	LT/RT
US 7				
20+915.1		2.1		
20+946.6		3.2		
21+035.1	21+473.6	649.7		
21+103.1			1.8	
21+147.7			0.4	
21+213.0	36+101.6		444.7	
21+218.9		2.3		
21+233.7			3.4	
21+258.6			0.8	
21+263.7			0.9	
21+350.4			2.7	
21+443.3	36+044.1		55.0	LIBRARY
VT 73 EAST				
36+012.7		3.4		RAMP
36+062.0	36+062.7		8.1	CONNECTOR
36+062.7			0.8	
36+076.0			0.8	
LOT-A				
30+012.9	30+109.0		182.0	
30+035.5			0.7	
30+065.7			5.6	
30+065.8		1.6		RAMP
30+065.8			10.4	CONNECTOR
30+089.4			8.4	
30+116.9		3.6		RAMP
30+117.1	21+695.5		415.5	
30+156.5	21+650.0		87.9	ARND ISLND
30+161.2		4.2		RAMP
US 7				
21+483.4	21+521.8	36.6		
21+502.3		1.4		
21+513.5		4.6		
21+534.2	34+063.0	71.3		
21+546.0	21+551.1	9.8		RAMP
21+570.6	21+578.1		12.3	
CARVER ST				
34+010.8		7.3		INCL. RAMP
34+024.3	35+025.0		104.1	RT/LT CONN.

GUARD RAIL

BEGIN STATION km + m	END STATION km + m	POSITION LEFT m	POSITION RIGHT m	END TREATMENT BEGIN ea	END TREATMENT END ea
STEEL BEAM GUARDRAIL					
US 7					
22+091.9	22+093.9	6.3			
REMOVAL AND DISPOSAL OF GUARDRAIL					
US 7					
22+091.9	22+093.9	6.3			
REMOVE AND RESET GUARDRAIL					
US 7					
22+089.4	22+103.4	14.0			WOOD
BOX BEAM GUARDRAIL (COATED BLACK)					
US 7					
21+885.5	21+887.7	2.2			END ASSEMBLY

UNDERDRAIN

BEGIN STATION km + m	END STATION km + m	TYPE	POSITION	DIA. mm	LENGTH m	TRENCH EARTH m^3	TRENCH ROCK m^3	GRAN BKFILL m^3	FB ea	MKR PST ea
200 mm UNDERDRAIN PIPE										
US 7										
20+782.0	20+850.0	U	LT	200	67.9	29.0			1	
20+821.5	20+850.0	U	RT	200	28.2	11.6			1	
20+851.5	20+878.0	U	RT	200	26.5	10.9			1	
20+851.5	20+878.0	U	LT	200	26.3	10.8			1	
20+880.0	20+898.0	U	RT	200	15.5	6.5				
20+880.0	20+980.0	U	LT	200	99.7	36.8	4.1			
20+905.5	20+940.0	U	RT	200	34.5	11.9	2.2			
20+940.5	20+980.0	U	RT	200	39.2	16.1				
20+980.5	21+000.0	U	RT	200	19.5	8.0				
20+981.5	21+043.0	U	LT	200	60.9	25.0			1	
21+001.5	21+020.0	U	RT	200	18.5	7.6			1	
21+021.5	21+043.0	U	RT	200	21.5	8.8			1	
21+048.5	21+068.1	U	LT	200	19.1	7.6			1	
21+070.0	21+088.0	U	LT	200	17.8	7.3				
21+088.5	21+127.7	U	LT	200	37.3	17.5			1	
21+129.2	21+168.5	U	RT	200	39.1	15.2			1	
21+129.2	21+168.5	U	LT	200	39.1	16.0			1	
21+170.0	21+208.5	U	RT	200	38.3	15.7				
21+170.0	21+208.5	U	LT	200	38.3	15.7			1	
21+210.0	21+235.0	U	RT	200	24.8	10.2			1	
21+210.0	21+235.0	U	LT	200	24.6	10.1			1	
21+245.0	21+318.0	U	LT	200	72.7	29.8			1	
21+248.0	21+270.0	U	RT	200	21.7	8.9			1	
21+319.5	21+355.0	U	LT	200	35.0	14.4			1	
21+357.0	21+386.5	U	LT	200	29.5	11.7			1	
21+388.0	21+426.4	U	LT	200	38.4	15.7			1	
21+433.0	21+452.0	U	LT	200	18.7	7.7			1	
21+455.0	21+487.2	U	LT	200	30.8	13.4			1	
21+490.0	21+515.0	U	LT	200	21.4	10.1			1	
21+576.5	21+617.9	U	RT	200	36.8	14.0			1	
21+640.0	21+707.2	U	LT	200	70.6	32.7				
21+713.0	21+755.6	U	LT	200	42.2	16.9			1	
21+757.0	21+781.8	U	LT	200	24.1	9.2	0.2			
21+835.0	21+873.0	U	LT	200	35.5	14.4				
21+907.0	21+960.0	U	LT	200	52.4	22.2				
21+960.5	22+017.0	U	LT	200	56.9	23.3			1	
21+963.0	21+999.0	U	RT	200	35.7	14.6			1	
22+023.0	22+080.0	U	RT	200	57.3	23.5			1	
22+029.2	22+085.0	U	LT	200	55.2	23.2			1	
22+085.0	22+105.0	U	LT	200	19.3	9.3				

SUBTOTALS SHEET 1

VERTICAL GRANITE CURB	878.2
GRANITE SLOPE EDGING	0.0
REMOVING & RESETTING CURB	0.0

PORTLAND CEMENT CONCRETE SIDEWALK, 125 mm	2911.5
PORTLAND CEMENT CONCRETE SIDEWALK, 200 mm	0.0
BITUMINOUS CONCRETE SIDEWALK	0.0
SPECIAL PROVISION (MARBLE WALKWAY)	0.0
SPECIAL PROVISION (BRICK PAVING)	0.0
SPECIAL PROVISION (FIBER REINF. PORTLAND CEMENT CONCRETE SIDEWALK, 200mm)	0.0
SPECIAL PROVISION (REMOVE AND RESET STONE WALKWAY)	0.0
SPECIAL PROVISION (REMOVE AND RESET BRICK WALKWAY)	0.0
SPECIAL PROVISION (GRANITE SETTS)	0.0

STEEL BEAM GUARDRAIL, GALVANIZED	6.3
REMOVAL AND DISPOSAL OF GUARDRAIL	6.3
REMOVE AND RESET GUARDRAIL	14.0
BOX BEAM GUARDRAIL (COATED BLACK)	2.2

200 mm UNDERDRAIN PIPE	1490.8	613.3	6.5	0.0	28	0
150 mm UNDERDRAIN PIPE	0.0	0.0	0.0	0.0	0	0

PROJECT NAME: **BRANDON**

PROJECT NUMBER: **NH 019-3(496)**

FILE NAME: **zb008_6ids.xls** PLOT DATE: 2/23/2017

PROJECT LEADER: **C. BEAN** DRAWN BY: **R. SHEDD**

DESIGNED BY: **W.GORDON** CHECKED BY: **D. MUNRO**

ITEM DETAIL SHEET # 1 SHEET 23 OF 601

ITEM DETAIL SHEET 2

ISSUED FOR CONSTRUCTION

Metric

CURB

BEGIN STATION km + m	END STATION km + m	POSITION LEFT m	POSITION RIGHT m	REMARKS
US 7				
21+307.3	21+342.2		34.8	
21+324.1	21+328.8	4.8		SWLK
21+324.9	21+328.0	3.0		
21+332.5	21+362.3	29.9		SWLK
21+333.3	21+361.5	28.8		
21+347.5	21+388.1		40.6	
21+366.0	21+377.8	11.9		SWLK
21+366.8	21+377.0	10.1		
21+381.5	21+399.5	18.1		SWLK
21+382.3	21+398.7	16.3		
21+398.1	36+057.4		111.6	
21+403.2	21+443.0	41.3		
21+426.6	21+443.2	16.6		SWLK
21+448.1	21+462.0	14.0		SWLK
21+448.3	21+474.9	26.6		
VT 73 EAST				
30+014.0	36+073.6	46.7		RT/LT
36+083.2	36+110.0	27.0		
36+102.5	36+110.0		7.5	
LOT-A				
30+018.4	30+025.9		8.5	
30+031.0	30+046.8		15.9	
30+052.2	30+109.1		64.5	
30+062.7	21+510.0		96.9	LT/RT
30+062.7	30+063.3	0.6		FLUSH
30+063.3	30+069.7	6.4		
30+063.3		7.2		X-WALK
30+064.5		7.2		X-WALK
30+067.0	30+070.0		8.5	SWLK
30+067.1		7.2		X-WALK
30+068.3		7.2		X-WALK
30+095.1	30+104.1		9.0	BACK CURB
30+109.1			6.7	DRIVE
30+114.5	30+117.9	9.7		X-WALK
30+114.5	30+149.0	36.1		
30+115.4	30+119.0	9.3		X-WALK
30+116.3	30+120.9		11.3	DRIVE
30+116.3	21+695.5		141.6	
30+117.1	30+118.1		5.6	SWLK
30+118.3	30+121.9	9.3		X-WALK
30+119.2	30+120.0	5.4		SWLK

SIDEWALK

BEGIN STATION km + m	END STATION km + m	POSITION LEFT m^2	POSITION RIGHT m^2	REMARKS
CARVER ST				
34+027.8	34+031.9		8.2	INCL. RAMP
34+066.4	35+050.6		116.7	RT/LT
UNION ST				
35+035.5			0.7	
35+038.2		17.6		
35+039.4	21+693.7		153.6	RT/LT
35+054.3			4.2	RESTORE
35+057.6	35+081.0	37.1		
35+063.9	35+089.1		38.8	
35+070.5		1.9		
US 7				
21+663.0	21+674.8	24.2		BHND ISLND
21+703.3	21+782.4		333.1	
21+706.2	21+745.5	96.9		
21+733.8	21+747.4	21.5		RAMP
21+757.2	21+800.0	49.6		
21+762.3		3.4		TO RAMP
21+762.3			10.0	TO RAMP
21+767.3	21+782.4		41.3	ARND ISLND
21+782.5	21+815.8		138.3	
21+785.5	21+796.1		41.2	ARND ISLND
WEST SEMINARY ST				
9+012.3	9+031.8		31.5	
9+029.3			0.4	
9+037.7	21+869.2	94.1		LT/RT
9+094.2			2.9	
US 7				
21+835.0	21+870.7	51.9		
21+843.8			2.8	
21+844.3		7.6		
21+854.2		2.3		
21+883.6	21+898.7	23.3		
21+886.6	22+102.6	355.6		
21+913.7	21+942.7		44.9	
21+929.8			5.2	
21+946.8		0.9		
21+958.1	22+157.0		302.9	
21+960.3		0.3		
22+029.4		0.6		
22+051.7			2.7	
22+057.8		3.9		
22+070.4			7.9	
22+070.4		3.0		

GUARD RAIL

BEGIN STATION km + m	END STATION km + m	POSITION LEFT m	POSITION RIGHT m	END TREATMENT BEGIN ea	END TREATMENT END ea

UNDERDRAIN

BEGIN STATION km + m	END STATION km + m	TYPE	POSITION	DIA. mm	LENGTH m	TRENCH EARTH m^3	TRENCH ROCK m^3	GRAN BKFILL m^3	FB ea	MKR PST ea
US 7										
22+086.5	22+110.0	U	RT	200	23.0	9.4			1	
22+111.5	22+145.0	U	RT	200	33.2	13.3			1	
22+270.0	22+315.0	U	RT	200	44.1	20.1			1	
22+311.0	22+360.0	U	LT	200	48.7	19.7			1	
22+318.0	22+360.0	U	RT	200	42.0	17.2			1	
22+361.0	22+403.0	U	RT	200	42.0	17.2			1	
22+361.5	22+403.0	U	LT	200	41.0	17.2			1	
22+404.0	22+445.0	U	RT	200	40.8	16.4	0.3		1	
22+405.0	22+495.0	U	LT	200	89.8	37.7			1	
22+446.0	22+460.0	U	RT	200	14.0	5.7			1	
22+462.0	22+500.0	U	RT	200	37.8	15.5			1	
22+496.5	22+552.0	U	LT	200	54.9	23.1			1	
22+501.0	22+552.0	U	RT	200	51.0	20.9			1	
22+553.0	22+611.0	U	LT	200	58.2	23.3			1	
22+553.5	22+611.0	U	RT	200	56.9	35.6			1	
150mm UNDERDRAIN PIPE										
US 7										
20+903.0	20+990.0	U	RT	150	88.3					

SUBTOTALS SHEET 2

VERTICAL GRANITE CURB	963.7
GRANITE SLOPE EDGING	0.0
REMOVING & RESETTING CURB	0.0

PORTLAND CEMENT CONCRETE SIDEWALK, 125 mm	2083.0
PORTLAND CEMENT CONCRETE SIDEWALK, 200 mm	0.0
BITUMINOUS CONCRETE SIDEWALK	0.0
SPECIAL PROVISION (MARBLE WALKWAY)	0.0
SPECIAL PROVISION (BRICK PAVING)	0.0
SPECIAL PROVISION (FIBER REINF. PORTLAND CEMENT CONCRETE SIDEWALK, 200mm)	0.0
SPECIAL PROVISION (REMOVE AND RESET STONE WALKWAY)	0.0
SPECIAL PROVISION (REMOVE AND RESET BRICK WALKWAY)	0.0
SPECIAL PROVISION (GRANITE SETTS)	0.0

STEEL BEAM GUARDRAIL, GALVANIZED	0.0
REMOVAL AND DISPOSAL OF GUARDRAIL	0.0
REMOVE AND RESET GUARDRAIL	0.0
BOX BEAM GUARDRAIL (COATED BLACK)	0.0

200 mm UNDERDRAIN PIPE	677.4	292.3	0.3	0.0	15	0
150 mm UNDERDRAIN PIPE	88.3	0.0	0.0	0.0	0	0

PROJECT NAME: **BRANDON**

PROJECT NUMBER: **NH 019-3(496)**

FILE NAME: **zb008_6ids.xls**
PROJECT LEADER: **C. BEAN**
DESIGNED BY: **W.GORDON**
ITEM DETAIL SHEET # 2

PLOT DATE: 2/23/2017
DRAWN BY: **R. SHEDD**
CHECKED BY: **D. MUNRO**

ITEM DETAIL SHEET 3

ISSUED FOR CONSTRUCTION

Metric

CURB

BEGIN STATION km + m	END STATION km + m	POSITION LEFT m	POSITION RIGHT m	REMARKS
LOT-A				
30+119.4	30+123.2	12.1		X-WALK
US 7				
21+482.1	21+523.4	41.9		
21+510.0	30+149.0		124.6	RT/LT
21+532.9	34+056.1	64.6		
21+545.7	21+549.9	5.6		BACK CURB
CARVER ST				
34+061.6	34+073.0	11.4		
34+065.6	35+051.5		126.8	RT/LT
UNION ST				
35+038.1	21+615.0		54.2	RT/LT LOT
35+039.8	21+694.6		138.3	RT/LT
35+049.9	35+052.5		8.7	DRIVE
35+056.7	35+072.4	15.7		75 mm
35+076.3	35+081.0	4.8		75 mm
US 7				
21+703.0	21+782.5		97.0	
21+705.4	21+748.9	59.1		
21+729.7		2.2		RAMP
21+734.0	21+736.2	2.1		BHND RAMP
21+740.0	21+748.9	11.6		BACK CURB
21+745.5	21+745.9	2.3		BHND SWLK
21+755.9	21+787.6	42.4		
21+780.6	21+782.5		15.6	DRIVE
21+782.8	21+785.5		16.7	DRIVE
21+785.5	21+812.4		37.1	
WEST SEMINARY ST				
9+008.0	9+022.2	15.3		
9+012.3	9+033.1		22.6	
9+022.2	9+028.2	6.0		FLUSH
9+028.2	9+037.7	10.1		
9+032.0	9+037.7	6.0		BACK CURB
9+041.4	9+048.3		7.1	BACK CURB
9+041.7	9+048.0		6.3	
9+056.3	9+061.0		4.8	
US 7				
21+835.0	21+871.9	35.5		
21+835.0	21+853.0	17.0		SWLK
21+835.4	21+842.4	6.6		STEP
21+842.4		2.6		WALKWAY
21+846.2		2.7		WALKWAY
21+847.1	21+870.4		24.5	
21+855.4	21+872.2	15.8		SWLK

SIDEWALK

BEGIN STATION km + m	END STATION km + m	POSITION LEFT m^2	POSITION RIGHT m^2	REMARKS
US 7				
22+081.0			1.4	
22+084.2			1.5	
22+094.4			1.7	
22+097.4			1.6	
22+103.0			1.0	
22+117.6	19+028.1	56.1		
PEARL ST				
19+012.6			6.2	RAMP
19+037.8	19+079.1	60.9		
19+090.6	19+105.0	21.1		
US 7				
22+173.0	22+181.7		10.2	
22+195.5	22+212.5		25.3	
22+215.5		11.8		
VT 73 WEST				
18+015.8		6.7		RAMP
18+022.1		5.2		RAMP
18+022.6	22+497.7		457.0	RT/LT
18+022.6	18+103.0		124.6	
18+025.7	18+088.7	133.8		
18+079.7			3.0	
US 7				
22+228.8		5.5		
22+232.7	22+242.7		14.0	
22+240.8		1.5		
22+255.1	22+281.6		40.4	
22+274.5		0.7		
22+296.7	22+304.4		11.8	
22+314.0		2.1		
22+314.7	22+662.0		531.6	
22+343.2		3.2		
22+360.7		1.5		
22+368.9		5.7		
22+374.8		1.5		
22+413.6			1.8	
22+424.1			3.2	
PORTLAND CEMENT CONCRETE SIDEWALK, 200 mm				
US 7				
21+024.9	21+035.1	16.9		
21+194.0	21+213.0		29.2	
21+473.6	21+483.4	14.3		
21+521.8	21+534.2	16.0		

GUARD RAIL

BEGIN STATION km + m	END STATION km + m	POSITION LEFT m	POSITION RIGHT m	END TREATMENT BEGIN ea	END TREATMENT END ea

UNDERDRAIN

BEGIN STATION km + m	END STATION km + m	TYPE	POSITION	DIA. mm	LENGTH m	TRENCH EARTH m^3	TRENCH ROCK m^3	GRAN BKFILL m^3	FB ea	MKR PST ea

SUBTOTALS SHEET 3

VERTICAL GRANITE CURB	1077.7
GRANITE SLOPE EDGING	0.0
REMOVING & RESETTING CURB	0.0

PORTLAND CEMENT CONCRETE SIDEWALK, 125 mm	1553.6
PORTLAND CEMENT CONCRETE SIDEWALK, 200 mm	76.4
BITUMINOUS CONCRETE SIDEWALK	0.0
SPECIAL PROVISION (MARBLE WALKWAY)	0.0
SPECIAL PROVISION (BRICK PAVING)	0.0
SPECIAL PROVISION (FIBER REINF. PORTLAND CEMENT CONCRETE SIDEWALK, 200mm)	0.0
SPECIAL PROVISION (REMOVE AND RESET STONE WALKWAY)	0.0
SPECIAL PROVISION (REMOVE AND RESET BRICK WALKWAY)	0.0
SPECIAL PROVISION (GRANITE SETTS)	0.0

STEEL BEAM GUARDRAIL, GALVANIZED	0.0
REMOVAL AND DISPOSAL OF GUARDRAIL	0.0
REMOVE AND RESET GUARDRAIL	0.0
BOX BEAM GUARDRAIL (COATED BLACK)	0.0

200 mm UNDERDRAIN PIPE	0.0	0.0	0.0	0.0	0	0
150 mm UNDERDRAIN PIPE	0.0	0.0	0.0	0.0	0	0

PROJECT NAME: **BRANDON**

PROJECT NUMBER: **NH 019-3(496)**

FILE NAME: **zb008_6ids.xls**
PROJECT LEADER: **C. BEAN**
DESIGNED BY: **W.GORDON**
ITEM DETAIL SHEET # 3

PLOT DATE: 2/23/2017
DRAWN BY: **R. SHEDD**
CHECKED BY: **D. MUNRO**

ITEM DETAIL SHEET 4

ISSUED FOR CONSTRUCTION

Metric

CURB

BEGIN STATION km + m	END STATION km + m	POSITION LEFT m	POSITION RIGHT m	REMARKS
US 7				
21+866.0	21+871.0		11.4	DRIVE
21+882.1	21+900.2		17.7	ISLAND
21+882.4	21+900.0		19.9	
21+885.2	22+003.8	120.1		
21+912.3	21+912.4		2.8	DRIVE
21+912.5	8+035.0		59.1	
PROSPECT ST				
8+041.9	22+015.1	92.8		LT/RT
US 7				
22+005.8			0.9	STEP
22+009.2	22+019.1	9.9		
22+020.5	22+027.1		6.6	
22+025.1	22+075.8	52.2		
22+032.5	22+071.3		40.4	
22+035.4			1.8	STEP
22+076.7	22+102.6		25.9	
22+081.8	22+102.6	22.3		
22+108.0	22+135.0		26.7	
22+116.0	19+029.0	50.3		
PEARLST				
19+022.0	19+029.2	7.9		PRKNG LOT
19+036.0	19+041.9	5.8		PRKNG LOT
19+037.8	19+079.8	41.4		
19+072.4	19+076.0		15.6	DRIVE
19+072.4	18+022.9		116.2	RT/LT
19+080.6	19+095.0		14.6	
19+089.9	19+095.0	5.0		
US 7				
22+141.1	22+158.5		16.9	
22+171.2	22+183.5		12.0	BACK CURB
22+171.4	22+183.3		11.6	
VT 73 WEST				
18+025.2	18+025.9	6.6		DRIVE
18+026.4	18+028.7	14.1		DRIVE
18+028.7	18+050.1	24.2		
18+055.5	18+079.9	24.5		
18+092.5	22+252.9		117.6	RT/LT
US 7				
22+194.2	22+212.2		17.6	
22+217.5	22+220.2		10.1	ISLAND
22+233.3	22+242.1		8.6	

SIDEWALK

BEGIN STATION km + m	END STATION km + m	POSITION LEFT m^2	POSITION RIGHT m^2	REMARKS
UNION ST				
35+039.4	35+063.9		40.8	
35+050.6	35+057.6		11.6	
US 7				
21+693.7	21+706.2	21.6		
21+747.4	21+757.2	15.3		
WEST SEMINARY ST				
9+031.8	9+061.0		45.5	
US 7				
21+869.2	21+883.6		24.8	
24+870.7	21+886.4	25.2		
21+898.7	21+913.7		25.0	
PEARL ST				
19+028.1	19+037.8	15.6		
19+079.1	19+090.6	16.9		
US 7				
22+157.0	22+173.0		25.1	
22+171.3	22+183.4		6.5	ISLAND
22+181.7	22+195.5		21.6	
22+241.2	22+256.6		25.1	
22+281.6	22+296.7		24.9	
22+304.9	22+314.7		17.3	
BITUMINOUS CONCRETE SIDEWALK				
HIGH ST				
40+035.1		2.4		
40+044.9		2.0		
40+048.3			0.6	
US 7				
21+110.4		2.6		
21+127.6			3.9	
21+181.0			1.4	
21+192.4		0.6		
21+218.6			2.8	
21+242.3		2.1		
21+251.5			0.8	
21+264.7		0.8		
21+288.4		2.7		
21+369.9		1.2		
21+380.9			2.4	
21+389.3		3.2		
21+423.4		1.3		
21+437.9			2.7	
21+454.5		11.4		
VT 73 EAST				
36+076.0			0.8	
36+087.9			0.8	

GUARD RAIL

BEGIN STATION km + m	END STATION km + m	POSITION LEFT m	POSITION RIGHT m	END TREATMENT BEGIN ea	END TREATMENT END ea

UNDERDRAIN

BEGIN STATION km + m	END STATION km + m	TYPE	POSITION	DIA. mm	LENGTH m	TRENCH EARTH m^3	TRENCH ROCK m^3	GRAN BKFILL m^3	FB ea	MKR PST ea

SUBTOTALS SHEET 4

VERTICAL GRANITE CURB	1031.1
GRANITE SLOPE EDGING	0.0
REMOVING & RESETTING CURB	0.0

PORTLAND CEMENT CONCRETE SIDEWALK, 125 mm	0.0
PORTLAND CEMENT CONCRETE SIDEWALK, 200 mm	362.8
BITUMINOUS CONCRETE SIDEWALK	46.5
SPECIAL PROVISION (MARBLE WALKWAY)	0.0
SPECIAL PROVISION (BRICK PAVING)	0.0
SPECIAL PROVISION (FIBER REINF. PORTLAND CEMENT CONCRETE SIDEWALK, 200mm)	0.0
SPECIAL PROVISION (REMOVE AND RESET STONE WALKWAY)	0.0
SPECIAL PROVISION (REMOVE AND RESET BRICK WALKWAY)	0.0
SPECIAL PROVISION (GRANITE SETTS)	0.0

STEEL BEAM GUARDRAIL, GALVANIZED	0.0
REMOVAL AND DISPOSAL OF GUARDRAIL	0.0
REMOVE AND RESET GUARDRAIL	0.0
BOX BEAM GUARDRAIL (COATED BLACK)	0.0

200 mm UNDERDRAIN PIPE	0.0	0.0	0.0	0.0	0	0
150 mm UNDERDRAIN PIPE	0.0	0.0	0.0	0.0	0	0

PROJECT NAME: **BRANDON**

PROJECT NUMBER: **NH 019-3(496)**

FILE NAME: **zb008_6ids.xls**
PROJECT LEADER: **C. BEAN**
DESIGNED BY: **W.GORDON**
ITEM DETAIL SHEET # 4

PLOT DATE: 2/23/2017
DRAWN BY: **R. SHEDD**
CHECKED BY: **D. MUNRO**

ITEM DETAIL SHEET 5

ISSUED FOR CONSTRUCTION

Metric

CURB

BEGIN STATION km + m	END STATION km + m	POSITION LEFT m	POSITION RIGHT m	REMARKS
US 7				
22+255.7	22+259.6		3.8	
22+258.4	22+280.4	22.2		
22+265.1	22+282.8		17.7	
22+285.8	22+302.2	16.4		
22+295.4	22+305.6		10.3	
22+307.6	22+323.7	16.1		
22+313.4	22+342.9		29.5	
22+336.5	22+346.9	10.4		
22+352.3	22+377.7	25.4		
22+355.8	22+395.3		39.4	
22+383.7	22+395.2	11.5		
22+399.8	22+413.1		13.2	SWLK
22+400.5	22+418.8	18.4		
22+400.7	22+435.5		34.6	
22+414.0	22+423.5		9.8	SWLK
22+424.2	22+435.6	11.5		
22+440.9	22+662.0		220.9	
22+441.0	22+497.7	66.2		
22+506.8	22+539.6	49.9		
22+548.8	22+554.4	18.8		
22+560.4	22+575.4	32.1		ISLAND
22+591.4	22+618.0	59.4		ISLAND
GRANITE SLOPE EDGING				
UNION ST				
35+038.1	35+040.9		14.2	DRIVE
VT 73 WEST				
18+022.9	18+025.2	27.4		DRIVE
LOT A				
30+069.7	30+114.5	46.1		100 mm
US 7				
22+171.2	22+183.5		12.6	ISLAND
22+232.7	22+242.7		11.9	ISLAND
REMOVING AND RESETTING CURB				
US 7				
21+192.0	21+193.0	0.9		BHND SWLK
21+276.3	21+300.8		24.5	BHND SWLK
21+300.6	21+300.8		4.2	DRIVE
21+316.9	21+331.8		14.9	BHND SWLK
21+443.9	36+041.9		16.9	LIB., MRBL
LOT-A				
30+037.0	30+042.3	16.7		MARBLE
30+114.6		2.4		STEP STONE
30+124.0			0.8	4 INSETS

SIDEWALK

BEGIN STATION km + m	END STATION km + m	POSITION LEFT m^2	POSITION RIGHT m^2	REMARKS
LOT-A				
30+014.3			0.8	
30+022.9			0.6	
30+035.5			0.7	
UNION ST				
35+109.5	35+114.0	8.9		WIDEN
US 7				
21+625.9		6.0		
21+633.5		5.0		
WEST SEMINARY ST				
9+009.3		2.8		
9+021.9	9+029.2	30.3		TOWN HALL
9+077.0	9+097.3		40.7	
US 7				
21+834.1	21+838.0	2.2		TO BLDG
21+846.2	21+853.0	14.1		TO BLDG
21+847.8			3.4	
21+968.3			1.4	
22+035.4			0.8	
22+111.5			1.5	
VT 73 WEST				
18+057.5			1.5	
18+065.6		3.4		
18+074.0		3.2		
US 7				
22+203.3			3.9	
22+210.9	22+232.7		37.8	
22+338.1			1.6	
22+387.7		2.7		
SPECIAL PROVISION (MARBLE WALKWAY)				
US 7				
21+288.0		0.2		
SPECIAL PROVISION (BRICK PAVING)				
US 7				
21+294.6			0.6	
21+397.2	21+464.9		27.7	
21+403.4	21+443.2	16.2		
21+444.8	21+465.7		25.3	
21+448.0	21+464.9	6.7		
21+466.4	21+474.8	3.4		
VT 73 EAST				
36+013.4	36+061.1		17.1	
LOT-A				
30+018.7	30+026.7		4.1	
30+030.0	30+047.7		7.1	
30+051.3	30+065.0		7.5	

GUARD RAIL

BEGIN STATION km + m	END STATION km + m	POSITION LEFT m	POSITION RIGHT m	END TREATMENT BEGIN ea	END TREATMENT END ea

UNDERDRAIN

BEGIN STATION km + m	END STATION km + m	TYPE	POSITION	DIA. mm	LENGTH m	TRENCH EARTH m^3	TRENCH ROCK m^3	GRAN BKFILL m^3	FB ea	MKR PST ea

SUBTOTALS SHEET 5

VERTICAL GRANITE CURB	737.5
GRANITE SLOPE EDGING	112.2
REMOVING & RESETTING CURB	81.3

PORTLAND CEMENT CONCRETE SIDEWALK, 125 mm	0.0
PORTLAND CEMENT CONCRETE SIDEWALK, 200 mm	0.0
BITUMINOUS CONCRETE SIDEWALK	173.3
SPECIAL PROVISION (MARBLE WALKWAY)	0.2
SPECIAL PROVISION (BRICK PAVING)	115.7
SPECIAL PROVISION (FIBER REINF. PORTLAND CEMENT CONCRETE SIDEWALK, 200mm)	0.0
SPECIAL PROVISION (REMOVE AND RESET STONE WALKWAY)	0.0
SPECIAL PROVISION (REMOVE AND RESET BRICK WALKWAY)	0.0
SPECIAL PROVISION (GRANITE SETTS)	0.0

STEEL BEAM GUARDRAIL, GALVANIZED	0.0
REMOVAL AND DISPOSAL OF GUARDRAIL	0.0
REMOVE AND RESET GUARDRAIL	0.0
BOX BEAM GUARDRAIL (COATED BLACK)	0.0

200 mm UNDERDRAIN PIPE	0.0	0.0	0.0	0.0	0	0
150 mm UNDERDRAIN PIPE	0.0	0.0	0.0	0.0	0	0

PROJECT NAME: **BRANDON**

PROJECT NUMBER: **NH 019-3(496)**

FILE NAME: **zb008_6ids.xls**
PROJECT LEADER: **C. BEAN**
DESIGNED BY: **W.GORDON**
ITEM DETAIL SHEET # 5

PLOT DATE: 2/23/2017
DRAWN BY: **R. SHEDD**
CHECKED BY: **D. MUNRO**
SHEET 27 OF 601

ITEM DETAIL SHEET 6

ISSUED FOR CONSTRUCTION

Metric

CURB

BEGIN STATION km + m	END STATION km + m	POSITION LEFT m	POSITION RIGHT m	REMARKS
LOT-A				
30+130.4			0.8	4 INSETS
30+138.5			0.8	4 INSETS
30+146.6			0.8	4 INSETS
CARVER ST				
34+057.1		5.3		DRIVE
34+061.6		3.0		DRIVE
UNION ST				
35+051.0	35+053.6		6.6	DRIVE
35+062.3	35+062.5		2.2	DRIVE
35+063.4	35+089.1		25.7	
US 7				
21+565.9	21+582.7		29.0	MRBL BAND
21+567.6	21+583.8		33.2	MRBL EDGE
21+574.4			2.4	STEP STONE
21+667.2			0.8	4 INSETS
21+675.4			0.8	4 INSETS
21+683.8			0.8	4 INSETS
21+691.6			0.8	4 INSETS
21+713.4			0.8	4 INSETS
21+720.0		0.8		4 INSETS
21+722.7			0.8	4 INSETS
21+731.0		0.8		4 INSETS
21+732.1			0.8	4 INSETS
21+741.4			0.8	4 INSETS
21+751.5			0.8	4 INSETS
21+787.6	21+800.0	12.4		BHF 019-3(58)
21+805.9			0.8	4 INSETS
21+812.4	21+814.7		2.5	BHF 019-3(58)
21+835.0	21+837.4	2.4		BHF 019-3(58)
22+161.7		30.0		(12) FOUNTAIN MRBL BAND
WEST SEMINARY ST				
9+077.0	9+097.3		20.3	

SIDEWALK

BEGIN STATION km + m	END STATION km + m	POSITION LEFT m^2	POSITION RIGHT m^2	REMARKS
US 7				
21+482.1	21+523.4	14.2		
21+488.0	21+491.9		14.2	PARK
21+491.9	21+500.5		63.2	MONUMENT
21+500.5	21+565.9		144.8	PARK
21+532.7	21+553.0	8.6		
CARVER ST				
34+011.3	34+057.1	15.0		
34+011.6	34+030.3		10.2	
34+030.8	34+055.9		13.6	
34+055.9	34+060.4		3.0	
US 7				
21+568.6	21+580.8	19.9		
21+569.4	21+573.8	2.1		
21+570.7	21+583.5		49.0	ARND FOUNT
21+575.1	21+579.6	2.3		
21+578.1	21+583.0		5.0	
21+579.4	21+621.1		75.6	PARK
LOT-A				
30+066.8	30+100.5		15.8	
30+102.0	30+108.6		2.5	
30+106.1	30+107.5		1.7	MAIL BOX
30+106.1	30+109.0		1.1	
30+114.5	30+160.7	99.8		PARK
30+117.1	30+119.7		3.0	
30+118.8	30+157.2		40.9	
30+157.6	30+160.2		5.2	
UNION ST				
35+012.2	35+040.0		11.3	
35+012.3	35+051.6	16.1		
US 7				
21+595.4	21+643.1	20.3		
21+635.6	21+643.2		3.3	
21+642.8	21+646.1		9.0	
21+644.7	21+694.7	21.7		
21+644.8	21+695.5		27.1	
21+676.5	21+680.6	4.5		
21+703.5	21+761.5		36.0	
21+705.4	21+728.2	11.9		
21+729.9	21+748.9	10.6		
21+755.9	21+761.4	3.1		
21+763.3	21+770.8		5.9	
21+763.1	21+800.0	14.7		
21+772.2	21+782.3		4.5	
21+785.6	21+801.6		7.1	

GUARD RAIL

BEGIN STATION km + m	END STATION km + m	POSITION LEFT m	POSITION RIGHT m	END TREATMENT BEGIN ea	END TREATMENT END ea

UNDERDRAIN

BEGIN STATION km + m	END STATION km + m	TYPE	POSITION	DIA. mm	LENGTH m	TRENCH EARTH m^3	TRENCH ROCK m^3	GRAN BKFILL m^3	FB ea	MKR PST ea

SUBTOTALS SHEET 6

VERTICAL GRANITE CURB	0.0
GRANITE SLOPE EDGING	0.0
REMOVING & RESETTING CURB	187.0

PORTLAND CEMENT CONCRETE SIDEWALK, 125 mm	0.0
PORTLAND CEMENT CONCRETE SIDEWALK, 200 mm	0.0
BITUMINOUS CONCRETE SIDEWALK	0.0
SPECIAL PROVISION (MARBLE WALKWAY)	0.0
SPECIAL PROVISION (BRICK PAVING)	817.8
SPECIAL PROVISION (FIBER REINF. PORTLAND CEMENT CONCRETE SIDEWALK, 200mm)	0.0
SPECIAL PROVISION (REMOVE AND RESET STONE WALKWAY)	0.0
SPECIAL PROVISION (REMOVE AND RESET BRICK WALKWAY)	0.0
SPECIAL PROVISION (GRANITE SETTS)	0.0

STEEL BEAM GUARDRAIL, GALVANIZED	0.0
REMOVAL AND DISPOSAL OF GUARDRAIL	0.0
REMOVE AND RESET GUARDRAIL	0.0
BOX BEAM GUARDRAIL (COATED BLACK)	0.0

200 mm UNDERDRAIN PIPE	0.0	0.0	0.0	0.0	0	0
150 mm UNDERDRAIN PIPE	0.0	0.0	0.0	0.0	0	0

PROJECT NAME: **BRANDON**

PROJECT NUMBER: **NH 019-3(496)**

FILE NAME: **zb008_6ids.xls**
PROJECT LEADER: **C. BEAN**
DESIGNED BY: **W.GORDON**
ITEM DETAIL SHEET # 6

PLOT DATE: 2/23/2017
DRAWN BY: **R. SHEDD**
CHECKED BY: **D. MUNRO**

ITEM DETAIL SHEET 7

ISSUED FOR CONSTRUCTION

Metric

CURB

BEGIN STATION km + m	END STATION km + m	POSITION LEFT m	POSITION RIGHT m	REMARKS

SIDEWALK

BEGIN STATION km + m	END STATION km + m	POSITION LEFT m^2	POSITION RIGHT m^2	REMARKS
US 7				
21+802.9	21+814.7		7.1	
22+152.5	22+191.8	186.5		PARK
22+157.5	22+165.9	52.9		FOUNTAIN
SPECIAL PROVISION (FIBER REINF. PORTLAND CEMENT CONCRETE SIDEWALK, 200 mm)				
US 7				
21+676.5	21+680.7	16.6		PAD
LOT A				
30+065.8		11.0		XWALK LT/RT
30+116.9	30+120.4	13.5		XWALK LT/RT
SPECIAL PROVISION (REMOVE AND RESET STONE WALKWAY)				
US 7				
20+928.4		0.4		
21+292.1		1.7		
21+316.4			0.9	
21+324.5			0.8	
21+338.1		5.9		
21+349.3		2.0		
21+413.9		1.0		
21+990.5		1.4		
22+005.8			2.5	
22+296.5		0.5		
22+354.8		1.0		
22+410.8		0.7		
22+453.8			2.1	
SPECIAL PROVISION (REMOVE AND RESET BRICK WALKWAY)				
US 7				
21+143.7			1.7	
21+404.4			2.2	
VT 73 WEST				
18+029.0		0.7		
18+039.8		2.0		
18+045.4		3.6		
US 7				
22+423.6		2.0		
SPECIAL PROVISION (GRANITE SETTS)				
US 7				
21+567.0	21+582.0		17.8	FOUNTAIN
22+159.6	22+163.8	7.1		FOUNTAIN

SUBTOTALS SHEET 7

PORTLAND CEMENT CONCRETE SIDEWALK, 125 mm	0.0
PORTLAND CEMENT CONCRETE SIDEWALK, 200 mm	0.0
BITUMINOUS CONCRETE SIDEWALK	0.0
SPECIAL PROVISION (MARBLE WALKWAY)	0.0
SPECIAL PROVISION (BRICK PAVING)	246.5
SPECIAL PROVISION (FIBER REINF. PORTLAND CEMENT CONCRETE SIDEWALK, 200mm)	41.1
SPECIAL PROVISION (REMOVE AND RESET STONE WALKWAY)	20.9
SPECIAL PROVISION (REMOVE AND RESET BRICK WALKWAY)	12.2
SPECIAL PROVISION (GRANITE SETTS)	24.9

GUARD RAIL

BEGIN STATION km + m	END STATION km + m	POSITION LEFT m	POSITION RIGHT m	END TREATMENT BEGIN ea	END TREATMENT END ea

UNDERDRAIN

BEGIN STATION km + m	END STATION km + m	TYPE	POSITION	DIA. mm	LENGTH m	TRENCH EARTH m^3	TRENCH ROCK m^3	GRAN BKFILL m^3	FB ea	MKR PST ea

PROJECT TOTALS

VERTICAL GRANITE CURB	4688.2
GRANITE SLOPE EDGING	112.2
REMOVING & RESETTING CURB	268.3

PORTLAND CEMENT CONCRETE SIDEWALK, 125 mm	6548.1
PORTLAND CEMENT CONCRETE SIDEWALK, 200 mm	439.2
BITUMINOUS CONCRETE SIDEWALK	219.8
SPECIAL PROVISION (MARBLE WALKWAY)	0.2
SPECIAL PROVISION (BRICK PAVING)	1180.0
SPECIAL PROVISION (FIBER REINF. PORTLAND CEMENT CONCRETE SIDEWALK, 200mm)	41.1
SPECIAL PROVISION (REMOVE AND RESET STONE WALKWAY)	20.9
SPECIAL PROVISION (REMOVE AND RESET BRICK WALKWAY)	12.2
SPECIAL PROVISION (GRANITE SETTS)	24.9

STEEL BEAM GUARDRAIL, GALVANIZED	6.3
REMOVAL AND DISPOSAL OF GUARDRAIL	6.3
REMOVE AND RESET GUARDRAIL	14.0
BOX BEAM GUARDRAIL (COATED BLACK)	2.2

200 mm UNDERDRAIN PIPE	2168.2	905.6	6.8	0.0	43	0
150 mm UNDERDRAIN PIPE	88.3	0.0	0.0	0.0	0	0

PROJECT NAME: **BRANDON**

PROJECT NUMBER: **NH 019-3(496)**

FILE NAME: **zb008_6ids.xls**
PROJECT LEADER: **C. BEAN**
DESIGNED BY: **W.GORDON**
ITEM DETAIL SHEET # 7

PLOT DATE: 2/23/2017
DRAWN BY: **R. SHEDD**
CHECKED BY: **D. MUNRO**
SHEET 29 OF 601

DRAINAGE DETAIL SHEET 1

ISSUED FOR CONSTRUCTION

Metric

STATION km + m	STATION km + m	POS.	PIPE ID NUMBER	INLET/OUTLET TYPE		DITCH		PIPE ARCH			PIPE		ALLOWABLE OPTIONS						PIPE ELBOW no. deg	ES ea	PRC CB Dia.	PRC MH Dia.	DEPTH CB/MH (2) m	CONC CLASS B m³	REINF STEEL kg	GRATE type	CHAN ELEV ea	FLOW FILL m³	TRENCH EXCAVATION		COMM EXC m³	UNC CHAN EXC m³	STRUCT EXCAV m³	GRAN BKFILL STRUCT m³	REHAB DI,CB,MH CL II ea	EROS MATT m²	STONE FILL		MARKER POSTS		GEO UNDER SF m²	REMARKS
				INLET	OUTLET	IN	OUT	SPAN mm	RISE mm	L m	D mm	L m	PCCSP mm	CAAP mm	RCP CL	CSP mm	CPEP SL	PVC										EARTH m³	ROCK m³							m³	type	IN ea	OUT ea		
PROPOSED DRAINAGE																																									
US 7																																									
20+820.0	20+850.0	RT	1	PRCCB	PRCCB						600	28.7	1.63	1.52	III		X								1-E			41.9					7.5	1						REHAB DI, CB, OR MH, CLASS II AT 20+820 RT
20+850.0	20+850.0	LT/RT	2	PRCCB	PRCCB						450	6.3			III		X				1.2		2.1		1-E			9.5					1.5							
20+850.0	20+855.8	RT	3	EXIST	PRCCB						200	9.4						X										19.0					1.8							PVC SEWER PIPE - CONNECT TO EXISTING PIPE
20+850.0	20+878.0	RT	4	PRCCB	PRCCB						600	26.6	1.63	1.52							1.5		2.4		1-E			43.8					7.0							
20+878.0	20+878.0	LT/RT	5	PRCCB	PRCCB						600	6.5			III		X				1.8		2.3		1-E			14.1	3.3				1.7							
20+877.5	20+878.0	LT	6	PRCCB	ES		X				600	18.7			III		X			1	1.2		2.5		1-E			125.4					4.9			14.3	II		1	50.4	STONE FILL, TYPE II CHANNEL AT OUTLET
40+008.0	40+015.0	LT/RT	7	PRCCB	PRCCB						450	12.2			III		X				1.5		1.9		2-A				28.3				2.9							
40+015.0	40+028.0	RT	8	PRCCB	PRCCB						450	14.1	1.63	1.52	III		X				1.2		2.0		1-E			1.1	36.3				3.3							
40+028.0	40+050.0	RT	9	PRCCB	PRCCB						450	20.8	1.63	1.52	III		X				1.2		2.0		1-E			36.4	13.8				4.9							
40+050.0	40+065.0	RT	10	PRCCB	PRCCB						450	13.7	1.63	1.52	III		X				1.5		~~2.1~~ **2.2**		1-E			53.4	1.6				3.2							
40+065.0	40+065.0	LT/RT	11	PRCCB	PRCCB						450	2.9	1.63	1.52	III		X				1.2		1.9		1-E			14.0	1.1				0.7							
40+008.0	20+905.0	LT/RT	12	PRCCB	PRCCB						450	6.6	1.63	1.52	III		X				1.2		2.4		1-E			3.1	13.7				1.6							
20+905.0	20+940.0	RT	13	PRCCB	PRCCB						450	33.8	1.63	1.52	III		X				1.2		2.2		1-E			3.3	40.8				8.0							
20+940.0	20+980.0	RT	14	PRCCB	PRCCB						450	38.7	1.63	1.52	III		X				1.2		2.2		1-E			49.4	1.2				9.1							
20+980.0	20+980.0	LT/RT	15	PRCCB	PRCCB						450	6.3			III		X				1.2		2.2		1-E			11.3					1.5							
20+980.0	21+000.0	RT	16	PRCCB	PRCCB						450	18.7	1.63	1.52	III		X				1.5		2.4		1-E			30.2					4.4							
21+000.0	21+020.0	RT	17	PRCCB	PRCCB						600	18.8	1.63	1.52	III		X				1.2		~~2.3~~ **2.4**		1-E			33.4					4.9							
21+020.0	21+043.0	RT	18	PRCCB	PRCCB						600	21.7	1.63	1.52	III		X				1.2		2.4		1-E			35.6					5.7							
21+043.0	21+043.0	LT/RT	19	PRCCB	PRCCB						600	6.7			III		X				1.5		2.3		1-STEEL			14.8					1.8							
21+043.0	21+048.5	RT	20	PRCCB	PRCCB						450	3.9			III		X				1.8		~~2.2~~ **2.1**		2-STEEL			10.0					0.9							
21+006.3	21+011.3	LT	21	HW	EXIST						450	6.5			III								1.57	170.6				20.6					1.5							NEW FULL HEADWALL AND DEBRIS RACK, TYPE A AT INLET
21+018.6	21+032.9	LT	22	SWT	HW						450	19.5			III		X											59.2					4.6							
21+019.3	21+047.8	LT	23	PRCCB	HW		X				900	37.2			IV						1.8		4.3	4.30	370.0	2-STEEL		416.1					11.7			69.3	E4			NEW FULL HEADWALL AND SPECIAL PROVISION (E-STONE, TYPE E4) CHANNEL AT OUTLET
21+041.8	21+043.0	LT	24	PRCCB	SWT						150	1.4						X															0.3							PVC SEWER PIPE - DIVERSION PIPE (TYPE 1)
21+042.4	21+070.0	LT	25	SWT	PRCCB						300	28.7					X		3-*									54.6					6.0							DIVERSION PIPE (TYPE 2) *W/TWO 45° AND ONE 22.5° WATER TIGHT ELBOWS
21+043.0	21+048.5	LT	26	PRCCB	PRCCB						600	3.9			III		X				1.5		~~2.5~~ **3.3**		1-STEEL			11.8					1.0							DIVERSION STRUCTURE AT INLET
21+048.5	21+068.2	LT/RT	27	ES	PRCCB	X					900	26.5	2.01	1.91						1								125.2					8.3			14.9	E2	1		DEBRIS RACK, TYPE B AND SPECIAL PROVISION (E-STONE, TYPE E2) STONE FILL CHANNEL AT INLET
21+048.5	21+070.0	LT	28	PRCCB	PRCCB						450	20.0			III		X				1.2		~~2.4~~ **3.2**		1-E			27.9					4.7							DIVERSION STRUCTURE AT INLET
21+070.0	21+088.5	LT	29	PRCCB	PRCCB						450	17.2	1.63	1.52	III		X				1.5		~~2.3~~ **2.4**		1-E			26.9					4.1							
21+088.5	21+088.5	LT/RT	30	PRCCB	PRCCB						450	6.3	1.63	1.52	III		X				1.2		2.2		1-E			10.6					1.5							
21+088.5	21+129.2	LT	31	PRCCB	PRCCB						450	37.8	1.63	1.52	III		X				1.5		2.5		1-E			61.4					8.9							CURVED PIPE (106.25 m RADIUS)
21+129.2	21+129.2	LT/RT	32	PRCCB	PRCCB						450	6.3	1.63	1.52	III		X				1.2		2.2		1-D			10.5					1.5							
21+129.2	21+170.0	LT	33	PRCCB	PRCCB						450	39.3	1.63	1.52	III		X				1.5		2.6		1-D			74.3					9.3							
21+170.0	21+170.0	LT/RT	34	PRCCB	PRCCB						450	6.3			III		X				1.2		1.9		1-D			7.9					1.5							
21+170.0	21+210.0	LT	35	PRCCB	PRCCB						450	38.5	1.63	1.52	III		X				1.5		2.4		1-D			64.9					9.1							
21+210.0	21+210.0	LT/RT	36	PRCCB	PRCCB						450	6.3	1.63	1.52	III		X				1.2		2.2		1-D			11.3					1.5							
21+193.0	21+210.0	RT	37	PRCCB	PRCCB						300	35.9	1.63	1.52	III		X				1.2		1.7		1-D			117.1					7.5							
21+270.0	21+280.0	RT	38	PRCCB	PRCCB						450	8.8	1.63	1.52	III		X				1.2		2.0		1-D			11.1					2.1							
21+280.0	21+318.0	RT	39	PRCCB	PRCCB						450	36.8	1.63	1.52	III		X				1.2		2.2		1-E			44.0					8.7							
	SUBTOTALS SHEET 1										150	1.4						X			-	-	-	5.87	540.6	-		1705.1	140.1				171.1	1			I	1	1	50.4	
											200	9.4						X			-	-	-			-	-									14.3	II				
											300	35.9	1.63	1.52	III		X				19		1.2	Dia.		2	A										III				
											300	28.7					X		3		10		1.5	Dia.			B									14.9	E2				
											450	346.6	1.63	1.52	III		X				3		1.8	Dia.		7	D									69.3	E4				
											450	74.5			III		X						2.1	Dia.		21	E														
											450	6.5			III								2.4	Dia.			COVER															
											600	69.2	1.63	1.52	III		X									6	STEEL															
											600	26.6	1.63	1.52																												
											600	35.8			III		X			1																						
											900	26.5	2.01	1.91						1																						
											900	37.2			IV																												

REV	DATE	DESCRIPTION
2	4/6/2017	CORRECTED DEPTH CB/MH VALUES TO REFLECT FINAL DRAINAGE LAYOUT ON CROSS SECTIONS

PROJECT NAME: **BRANDON**

PROJECT NUMBER: **NH 019-3(496)**

FILE NAME: **zb008_5dds.xls**
PROJECT LEADER: **C. BEAN**
DESIGNED BY: **W. GORDON**
DRAINAGE DETAIL SHEET # 1

PLOT DATE: 4/6/2017
DRAWN BY: **W. GORDON**
CHECKED BY: **J. BRZEZOWSKI**

DRAINAGE DETAIL SHEET 2

ISSUED FOR CONSTRUCTION

Metric

STATION km + m	STATION km + m	POS.	PIPE ID NUMBER	INLET/OUTLET TYPE INLET	OUTLET	DITCH IN	OUT	PIPE ARCH SPAN mm	RISE mm	L m	PIPE D mm	L m	ALLOWABLE OPTIONS PCCSP mm	CAAP mm	RCP CL	CSP mm	CPEP SL	PVC	PIPE ELBOW no. deg	ES ea	PRC CB Dia.	PRC MH Dia.	DEPTH CB/MH (2) m	CONC CLASS B m³	REINF STEEL kg	GRATE type	CHAN ELEV ea	FLOW FILL m³	TRENCH EXCAVATION EARTH m³	ROCK m³	COMM EXC m³	UNC CHAN EXC m³	STRUCT EXCAV m³	GRAN BKFILL STRUCT m³	REHAB DI,CB,MH CL II ea	EROS MATT m²	STONE FILL m³	type	MARKER POSTS IN ea	OUT ea	GEO UNDER SF m²	REMARKS
21+318.0	21+318.0	LT/RT	40	PRCCB	PRCCB						450	6.6	1.63	1.52	III		X				1.2		2.0			1-E			8.8					1.6								
21+315.0	21+318.0	RT	41	PRCCB	PRCCB						375	5.9	1.63	1.52	III		X				1.2		2.5			1-D			28.5					1.3								
21+318.0	21+348.7	RT	42	PRCCB	PRCCB						450	29.5	1.63	1.52	III		X				1.2		2.1			1-E			30.3					7.0								
21+348.7	21+386.5	RT	43	PRCCB	PRCCB						450	36.6	1.63	1.52	III		X				1.2		2.0			1-D			36.6					8.6								
21+355.0	21+386.5	LT	44	PRCCB	PRCCB						450	30.3	1.63	1.52	III		X				1.2		~~2.0~~ **2.1**			1-D			32.9					7.2								
21+386.5	21+386.5	LT/RT	45	PRCCB	PRCCB						450	6.6	1.63	1.52	III		X				1.2		2.1			1-D			9.9					1.6								
21+386.5	21+386.5	RT	46	PRCCB	PRCCB						450	0.9	1.63	1.52	III		X				1.2		2.0			1-STEEL			10.8					0.2								
21+386.5	21+426.4	LT	47	PRCCB	PRCMH						450	38.7			III		X				1.2		2.1			1-D			48.0					9.1								
21+426.4	21+426.4	LT/RT	48	PRCCB	PRCMH						450	9.5			III		X				1.2		2.2			1-D			18.1					2.2								
21+426.4	21+426.4	LT	48A	PRCCB	PRCMH						450	0.9	1.63	1.52	III		X				1.2		2.0			1-D			6.6					0.2								
21+426.4	21+452.0	LT	49	PRCMH	PRCCB						450	24.3			III		X					1.2	~~2.2~~ **2.3**			1-COVER			35.6					5.7								
21+452.0	21+452.0	LT/RT	50	PRCCB	PRCCB						450	9.8			III		X				1.2		2.4			1-D			19.2					2.3								
21+452.0	21+457.3	RT	51	PRCCB	PRCCB						450	6.6	1.63	1.52	III		X				1.2		2.0			1-STEEL			24.9					1.6								
21+457.3	21+464.5	RT	52	PRCCB	PRCCB						450	6.5	1.63	1.52	III		X				1.5		1.8			2-D			17.8					1.5								
21+452.0	21+487.2	LT	53	PRCCB	PRCCB						600	32.7			III		X				1.5		2.5			2-D			61.6					8.6								
21+487.2	21+490.1	LT/RT	54	PRCCB	PRCCB						450	15.4			III		X				1.2		2.0			1-D			23.6					3.6								
21+490.1	36+025.0	RT/LT	55	PRCCB	PRCCB						450	18.5			III		X				1.2		~~2.2~~ **2.1**			1-E			68.1					4.4								
36+025.0	36+040.0	LT	56	PRCCB	PRCCB						450	15.9			III		X				1.2		~~2.3~~ **2.1**			1-E			30.4					3.8								
36+040.0	36+065.0	LT	57	PRCCB	PRCCB						450	26.0			III		X				1.2		~~2.6~~ **2.5**			1-E			58.0					6.1								
36+065.0	36+065.0	LT/RT	58	PRCCB	PRCCB						450	14.1	1.63	1.52	III		X				1.2		~~2.3~~ **2.2**			1-D			32.0					3.3								
36+065.0	36+065.0	RT	59	PRCCB	PRCCB						450	3.0	1.63	1.52	III		X				1.2		1.7			1-D			13.7					0.7								
36+065.0	36+108.0	RT	60	PRCCB	PRCCB						450	41.8	1.63	1.52	III		X				1.2		2.0			1-D			89.4					9.9								
36+065.0	36+085.0	LT	61	PRCCB	PRCCB						450	18.8	1.63	1.52	III		X				1.2		~~2.4~~ **2.1**			1-D			42.1					4.4								
36+085.0	36+108.0	LT	62	PRCCB	PRCCB						450	22.1	1.63	1.52	III		X				1.2		2.0			1-D			57.2					5.2								
21+487.2	21+515.0	LT	63	PRCCB	PRCCB						600	22.3			III		X				1.8		2.6			2-D			47.6					5.9								CURVED PIPE (90.0 m RADIUS)
21+515.0	21+543.0	LT	64	PRCCB	PRCCB						600	22.7			III		X				1.5		2.8			1-D			93.5					6.0								CURVED PIPE (90.0 m RADIUS)
21+543.0	21+553.7	LT	65	PRCCB	PRCCB						600	11.1			III		X				1.5		3.1			1-D			44.8					2.9								
21+553.7	21+554.4	LT/RT	66	PRCCB	PRCCB						450	14.9			III		X				1.5		~~2.0~~ **2.2**			2-D			29.6					3.5								
21+529.0	21+554.4	RT	67	PRCCB	PRCCB						450	24.1			III		X				1.2		2.0			1-D			27.6					5.7								
21+529.0	30+080.0	RT/LT	68	PRCCB	PRCCB						450	14.2	1.63	1.52	III		X				1.8		~~2.2~~ **2.5**			2-STEEL			33.8					3.4								
30+080.0	30+120.1	LT	69	PRCCB	PRCCB						450	42.0			III		X				1.2		~~1.7~~ **2.0**			1-STEEL			90.0					9.9								
30+075.0	30+080.0	RT/LT	70	PRCCB	PRCCB						375	16.1	1.63	1.52	III		X				1.2		~~2.5~~ **2.2**			1-D			50.4					3.6								
30+075.0	30+075.0	RT	70A		PRCCB						375	1.2	1.63	1.52															2.3					0.3								CAP FOR FUTURE CONNECTION
30+062.7	30+080.0	LT	71	PRCCB	PRCCB						450	15.7	1.63	1.52	III		X				1.2		2.2			1-STEEL			47.7					3.7								
30+050.0	30+062.7	LT	72	PRCCB	PRCCB						450	11.4	1.63	1.52	III		X				1.5		2.1			2-D			42.6					2.7								
30+050.0	30+053.0	LT/RT	73	PRCCB	PRCCB						450	8.4	1.63	1.52	III		X				1.2		1.9			1-A			23.0					2.0								
21+555.4	21+576.5	RT	74	PRCCB	PRCCB						450	17.4			III		X				1.2		2.0			1-D			19.3					4.1								CURVED PIPE (90.0 m RADIUS)
21+576.5	21+606.5	RT	75	PRCCB	PRCCB						450	25.4	1.63	1.52	III		X				1.2		~~2.2~~ **2.1**			1-D			25.4					6.0								CURVED PIPE (90.0 m RADIUS)
21+606.5	21+606.5	LT/RT	76	PRCCB	PRCCB						450	13.0			III		X				1.2		1.9			1-D			16.6					3.1								
21+553.7	21+572.4	LT	77	PRCCB	PRCCB						750	22.8			III		X				1.5		~~3.4~~ **3.5**			1-D			159.7					6.7								
	SUBTOTALS SHEET 2										375	22.0	1.63	1.52	III		X				-	-	-			-			1558.0					169.6					I			
											375	1.2	1.63	1.52							-	-	-			-	-												II			
											450	299.4	1.63	1.52	III		X				29	1	1.2	Dia.		1	A												III			
											450	269.5			III		X				7		1.5	Dia.			B												E2			
											600	88.8			III		X				2		1.8	Dia.		32	D												E4			
											750	22.8			III		X						2.1	Dia.		5	E															
																							2.4	Dia.		1	COVER															
																										6	STEEL															

REV	DATE	DESCRIPTION
2	4/6/2017	CORRECTED DEPTH CB/MH VALUES TO REFLECT FINAL DRAINAGE LAYOUT ON CROSS SECTIONS

PROJECT NAME: **BRANDON**

PROJECT NUMBER: **NH 019-3(496)**

FILE NAME: **zb008_5dds.xls**
PROJECT LEADER: **C. BEAN**
DESIGNED BY: **W. GORDON**
DRAINAGE DETAIL SHEET # 2

PLOT DATE: 4/6/2017
DRAWN BY: **W. GORDON**
CHECKED BY: **J. BRZEZOWSKI**

DRAINAGE DETAIL SHEET 3

ISSUED FOR CONSTRUCTION

Metric

STATION km + m	STATION km + m	POS.	PIPE ID NUMBER	INLET/OUTLET TYPE INLET	INLET/OUTLET TYPE OUTLET	DITCH IN	DITCH OUT	PIPE ARCH SPAN mm	PIPE ARCH RISE mm	PIPE ARCH L m	PIPE D mm	PIPE L m	ALLOWABLE OPTIONS PCCSP mm	ALLOWABLE OPTIONS CAAP mm	ALLOWABLE OPTIONS RCP CL	ALLOWABLE OPTIONS CSP mm	ALLOWABLE OPTIONS CPEP SL	ALLOWABLE OPTIONS PVC	PIPE ELBOW no. deg	ES ea	PRC CB Dia.	PRC MH Dia.	DEPTH CB/MH 2 m	CONC CLASS B m³	REINF STEEL kg	GRATE type	CHAN ELEV ea	FLOW FILL m³	TRENCH EXCAVATION EARTH m³	TRENCH EXCAVATION ROCK m³	COMM EXC m³	UNC CHAN EXC m³	STRUCT EXCAV m³	GRAN BKFILL STRUCT m³	REHAB DI,CB,MH CL II ea	EROS MATT m²	STONE FILL m³	STONE FILL type	MARKER POSTS IN ea	MARKER POSTS OUT ea	GEO UNDER SF m²	REMARKS
21+572.4	35+037.8	LT	78	PRCCB	PRCCB						600	25.6			III		X				1.2		3.3			1-D			188.7					6.7							
35+037.8	35+037.8	LT/RT	79	PRCCB	PRCCB						450	8.9	1.63	1.52	III		X				1.2		2.1			1-D			24.2					2.1							
35+037.8	35+037.8	RT	80	PRCCB	PRCCB						375	4.8	1.63	1.52	III		X				1.2		~~1.9~~	I,3		1-D			17.2					1.1							
35+037.8	35+048.4	LT	81	~~PRCCB~~ EXIST	PRCCB						450	9.5	1.63	1.52	III		X						~~3.1~~			1-D			41.0					2.2	1						REHAB DI, CB, OR MH, CLASS II AT 35+048.4 LT
21+572.4	34+083.0	LT/RT	82	PRCCB	PRCMH						750	71.3			III		X				2.4		~~3.8~~	3.7		1-D			567.3					20.9							
34+083.0	34+083.0	RT	83	PRCCB	PRCMH						375	1.3	1.63	1.52	III		X				1.2		2.1			1-D			11.6					0.3							
34+083.0	34+083.0	RT/LT	83A	PRCCB	PRCMH						375	6.1	1.63	1.52	III		X				1.2		2.5			1-D			36.4					1.4							
34+083.0	34+199.7	RT	84	PRCMH	PRCMH						750	114.7			III		X					1.8	3.5			1-COVER			945.3					33.5							
34+194.1	34+199.7	RT	85	PRCCB	PRCMH						375	4.6	1.63	1.52	III		X				1.2		1.9			1-D			19.4					1.0							
34+199.7	37+023.3	RT	85A	PRCMH	SWT						150	19.7						X											74.9					3.5							PVC SEWER PIPE - DIVERSION PIPE (TYPE 1)
34+199.7	34+207.0	RT	86	PRCMH	PRCCB						750	6.2			III		X					2.1	4.4			1-COVER			90.9					1.8							DIVERSION STRUCTURE AT INLET
34+207.0	34+208.5	RT	87	EXIST	PRCCB						300	1.2	1.63																3.3					0.3							CONNECT TO EXISTING PIPE
34+207.0	34+208.9	RT	88	EXIST	PRCCB						300	1.2	1.63																8.7					0.3							CONNECT TO EXISTING PIPE
34+207.0	37+036.0	RT/LT	89	PRCCB	PRCMH						750	28.1			III		X				1.8		4.1			1-D			224.3					8.2							
37+036.0	37+036.0	RT/LT	89A	SWT	PRCMH						300	2.3			III		X									1-D			4.8					0.5							
37+036.0	37+067.5	LT	90	PRCMH	PRCMH						750	30.0			III		X					1.5	~~4.3~~	4.4		1-COVER			305.5					8.8							
37+067.5	37+160.4	LT	90A	PRCMH	PRCMH						750	91.3			III		X					1.5	~~3.4~~	3.6		1-COVER			699.8					26.7							
37+067.5	37+067.5	LT/RT	90B	EXIST	PRCMH						300	1.2						X											5.3					0.3							PVC SEWER PIPE - CONNECT TO EXISTING PIPE
37+067.5	37+067.5	LT	90C	EXIST	PRCMH						375	1.2	1.63	1.52															2.9					0.3							CONNECT TO EXISTING DI. AT INLET
37+155.3	37+160.4	LT	90D	PRCCB	PRCMH						300	4.3					X				1.2		1.7			1-D			17.7					0.9							
37+160.4	37+160.4	LT	90E	PRCMH	EXIST						750	1.2	1.63									1.5	3.4			1-COVER			36.2					0.4							CONNECT TO EXISTING PIPE
37+160.4	37+162.1	LT	90F	EXIST	PRCMH						300	1.2	1.63																5.3					0.3							CONNECT TO EXISTING PIPE
21+707.2	21+725.3	LT	91	PRCCB	PRCCB						450	17.6	1.63	1.52	III		X				1.2		2.0			1-D			44.4					4.2							
21+725.3	21+755.6	LT	92	PRCCB	PRCCB						450	28.3	1.63	1.52	III		X				1.2		2.1			1-D			94.7					6.7							
21+755.6	21+756.7	LT/RT	93	PRCCB	PRCCB						450	15.3			III		X				1.2		2.0			1-D			25.1	7.6				3.6							
21+755.6	21+781.0	LT	94	PRCCB	EXIST						450	23.2					X				1.2		2.2			1-D			69.7	4.3				5.5							
			95																																						INSTALLED UNDER BHF 019-3(58)
21+800.0	21+805.0	LT/RT	96	PRCCB	EXIST						450	11.9			III		X				1.2		~~2.2~~	2.0		1-D			25.7	6.0				2.8							CONNECT TO PIPE INSTALLED UNDER BHF 019-3(58)
			97, 98, 99																																						INTENTIONALLY LEFT BLANK
9+014.0	21+849.0	LT/RT	100	PRCCB	PRCCB						450	14.4			IV						1.2		~~2.0~~	I.8		1-E			32.9					3.4							
9+014.0	9+022.0	LT	101	PRCCB	PRCCB						450	6.8			IV						1.5		~~2.2~~	2.3		1-D			20.5					1.6							
9+022.0	9+022.0	RT/LT	102	PRCCB	PRCCB						450	5.6			IV						1.5		2.1			1-E			17.4					1.3							
9+022.0	9+042.3	RT	103	PRCCB	PRCCB						375	19.3			IV						1.2		~~2.0~~	I.6		1-E			40.2					4.3							
9+022.0	9+035.0	LT	104	PRCCB	PRCCB						375	11.9			IV						1.2		~~2.0~~	I.4		1-E			29.0					2.7							
9+035.0	9+035.0	LT	104A		PRCCB						375	1.2	1.63	1.52															3.0					0.3							CAP FOR FUTURE CONNECTION
9+035.0	9+048.7	LT	105	PRCCB	PRCCB						375	12.7			IV						1.2		~~2.0~~	I.6		1-E			39.9					2.9							
9+048.7	9+060.0	LT	106	PRCCB	PRCCB						375	9.9			IV						1.2		~~2.0~~	I.6		1-E			28.2					2.2							
21+849.0	21+865.0	RT	107	PRCCB	PRCCB						450	15.6			IV						1.2		2.3			1-E			23.8					3.7							
21+865.0	21+873.0	RT/LT	108	PRCCB	PRCCB						450	10.3			IV						1.2		2.1			1-E			15.5					2.4							
21+873.0	21+876.8	LT	109	PRCCB							100	6.4						X											15.2					1.1							PVC SEWER PIPE - DIVERSION PIPE (TYPE 1)
SUBTOTALS SHEET 3											100	6.4						X			-	-	-			-			3855.9	17.9				170.2	1			I			
											150	19.7						X			-	-	-			-	-												II			
											300	3.6	1.63								19		1.2	Dia.			A											III			
											300	2.3			III		X				2	3	1.5	Dia.			B											E2			
											300	1.2						X			1	1	1.8	Dia.		17	D											E4			
											300	4.3					X					1	2.1	Dia.		8	E														
											375	16.8	1.63	1.52	III		X				1		2.4	Dia.		5	COVER STEEL														
											375	2.4	1.63	1.52																											
											375	53.8			IV																											
											450	64.3	1.63	1.52	III		X																								
											450	27.2			III		X																								
											450	52.7			IV																										
											450	23.2					X																								
											600	25.6			III		X																								
											750	1.2	1.63																												
											750	341.6			III		X																								

REV	DATE	DESCRIPTION
2	4/6/2017	CORRECTED DEPTH CB/MH VALUES TO REFLECT FINAL DRAINAGE LAYOUT ON CROSS SECTIONS

PROJECT NAME: BRANDON
PROJECT NUMBER: NH 019-3(496)

FILE NAME: zb008_5dds.xls
PROJECT LEADER: C. BEAN
DESIGNED BY: W. GORDON
DRAINAGE DETAIL SHEET # 3

PLOT DATE: 4/6/2017
DRAWN BY: W. GORDON
CHECKED BY: J. BRZEZOWSKI

DRAINAGE DETAIL SHEET 4

ISSUED FOR CONSTRUCTION

Metric

STATION km + m	STATION km + m	POS.	PIPE ID NUMBER	INLET/OUTLET TYPE INLET	INLET/OUTLET TYPE OUTLET	DITCH IN	DITCH OUT	PIPE ARCH SPAN mm	PIPE ARCH RISE mm	PIPE ARCH L m	PIPE D mm	PIPE L m	ALLOWABLE OPTIONS PCCSP mm	ALLOWABLE OPTIONS CAAP mm	ALLOWABLE OPTIONS RCP CL	ALLOWABLE OPTIONS CSP mm	ALLOWABLE OPTIONS CPEP SL	ALLOWABLE OPTIONS PVC	PIPE ELBOW no. deg	ES ea	PRC CB Dia.	PRC MH Dia.	DEPTH CB/MH m (2)	CONC CLASS B m^3	REINF STEEL kg	GRATE type	CHAN ELEV ea	FLOW FILL m^3	TRENCH EXCAVATION EARTH m^3	TRENCH EXCAVATION ROCK m^3	COMM EXC m^3	UNC CHAN EXC m^3	STRUCT EXCAV m^3	GRAN BKFILL STRUCT m^3	REHAB DI,CB,MH CL II ea	EROS MATT m^2	STONE FILL m^3	STONE FILL type	MARKER POSTS IN ea	MARKER POSTS OUT ea	GEO UNDER SF m^2	REMARKS
21+873.0	21+876.8	LT	110	PRCCB	SWT						750	12.9	2.01	1.91							2.1		~~3.3~~	4.1		1-D			104.0					3.8							DIVERSION STRUCTURE AT INLET
21+882.6	21+888.9	LT	111	SWT	HW		X				1500	21.5			IV									4.00	381.8				99.7				273.70	12.4			103.1	E4				NEW SPECIAL CRADLE HEADWALL AND SPECIAL PROV. (E-STONE, TYPE E4) CHANNEL AT OUTLET
21+890.2	21+891.2	LT	112	ES	HW	X					450	10.0	1.63	1.52						1									5.9					2.4			3.6	I	1		16.6	STONE FILL, TYPE I PAD AT INLET
21+871.3	21+882.3	RT/LT	113	PRCMH	SWT						1350	42.5			III							2.4	4.7			1-COVER			73.0				481.50	23.3								
21+871.3	21+880.1	RT	114	PRCMH	PRCMH						1350	47.6			III							2.4	~~3.4~~	3.0		1-COVER			51.2				764.80	26.1								
21+880.1	21+884.2	RT	115	HW	PRCMH	X					1050	37.0			III									6.27	449.1				368.3					12.8			15.5	E2				NEW FULL HEADWALL, DEBRIS RACK, TYPE A AND SPEC. PROV. (E-STONE, TYPE E2) CHANNEL AT INLET
21+880.1	21+895.4	RT	116	PRCMH	PRCMH						750	16.2			III		X					1.8	~~2.2~~	2.1		1-COVER			91.4					4.7								
21+895.4	21+896.0	RT	117	ES	PRCMH	X					750	17.6			III		X			1									229.3					5.1	1		75.0	E2	1			DEBRIS RACK, TYPE B AND SPECIAL PROVISION (E-STONE, TYPE E2) STONE FILL CHANNEL AT INLET
21+873.0	21+895.4	LT	118	PRCCB	PRCCB						750	19.9			III		X				1.8		~~2.3~~	2.4		2-STEEL			46.7					5.8								
21+895.4	21+895.4	LT/RT	119	PRCCB	PRCCB						750	6.4			III		X				2.1		2.4			2-STEEL			19.7					1.9								
21+895.4	21+907.0	LT	120	PRCCB	PRCCB						450	10.1	1.63	1.52	III		X				1.2		~~2.0~~	1.9		1-E			11.4					2.4								
21+895.4	21+902.0	RT	121	PRCCB	PRCCB						750	4.8			III		X				1.5		~~2.2~~	2.3		1-D			10.1					1.4								
21+902.0	21+902.0	RT	122	EXIST	PRCCB						375	1.2			III		X				~~1.2~~		~~1.6~~						12.3					0.3								CONNECT TO EXIST. PIPE OR CAP FOR FUTURE CONNECTION
21+902.0	21+934.0	RT	123	PRCCB	PRCCB						600	30.6			III		X				1.2		2.4			1-E			43.0					8.0								
21+934.0	21+946.0	RT	124	PRCCB	PRCCB						600	10.7			III		X				1.5		~~2.4~~	2.5		1-D			23.2					2.8								
21+946.0	8+013.5	RT/RT	125	PRCCB	PRCCB						600	7.7	1.63	1.52							1.2		2.2			1-E			22.4					2.0								
8+013.5	8+040.0	RT	126	PRCMH	PRCCB						600	25.9			III		X					1.5	~~2.2~~	2.3		1-COVER			79.5					6.8								
8+040.0	8+041.9	RT	127	EXIST	PRCMH						300	1.2						X											1.9					0.3								PVC SEWER PIPE - CONNECT TO EXISTING PIPE
8+040.0	8+040.0	LT/RT	128	PRCCB	PRCMH						375	4.7			III		X				1.2		2.0			1-E			18.2					1.1								
8+040.0	8+050.0	LT	129	PRCCB	PRCCB						375	8.7			III		X				1.2		1.9			1-E			31.1					2.0								
21+946.0	21+963.0	RT	130	PRCCB	PRCCB						450	15.3	1.63	1.52	III		X				1.5		~~2.6~~	2.7		1-E			30.5					3.6								
21+960.5	21+963.0	LT/RT	131	PRCCB	PRCCB						450	10.6			III		X				1.2		2.2			1-E			23.4					2.5								
21+963.0	22+000.0	RT	132	PRCCB	PRCCB						450	35.9	1.63	1.52	III		X				1.2		2.2			1-D			50.7					8.5								
			133																																							INTENTIONALLY LEFT BLANK
22+063.0	22+080.0	RT	134	PRCCB	PRCCB						375	15.5	1.63	1.52	III		X				1.2		1.6			1-STEEL			33.3					3.5								
22+080.0	22+085.0	RT	135	PRCCB	PRCCB						450	4.3			III		X				1.5		2.1			2-A			18.0					1.0								
22+085.0	22+085.0	LT/RT	136	PRCCB	PRCCB						600	9.8			III		X				1.5		3.5			1-D			47.1					2.6								
			137																																							INTENTIONALLY LEFT BLANK
22+085	22+085	LT	138	PRCCB	PRCCB						600	12.0			III		X				1.5		3.5			2-D			87.9					3.2								
22+085.0	22+085.0	LT	139	PRCCB	PRCMH						600	20.5			III		X				1.5		2.8			1-D			109.4					5.4								
22+083.3	22+085.0	LT	140	PRCMH	SWT						150	1.4						X																0.3								PVC SEWER PIPE - DIVERSION PIPE (TYPE 1)
22+085.0	22+085.0	LT	141	PRCMH	SWT						600	9.5	1.63	1.52								1.2	~~1.8~~	2.7		1-COVER			37.1					2.5								DIVERSION STRUCTURE AT INLET
22+085.0	22+095.0	LT	142	PRCCB	SWT						300	8.9	1.63	1.52					2-*		1.2		1.9			1-A			24.0					1.9								SLOPE PIPE *W/TWO 10° ELBOWS
22+084.3	22+085.0	LT	143	SWT			X				600	20.9	1.63	1.52					2-*										172.7					5.5			80.4	II		1	175.8	STONE FILL, TYPE II CHANNEL AT OUTLET SLOPE PIPE *W/TWO 10° ELBOWS
22+085.0	22+120.0	LT	144	PRCCB	PRCCB						450	33.7			III		X				1.2		~~2.5~~	2.7		1-D			172.7					8.0								
22+085.0	22+110.0	RT	145	PRCCB	PRCCB						450	23.5			III		X				1.5		~~3.0~~	3.1		1-D			77.3					5.6								
22+110.0	22+110.0	RT	146	PRCCB	PRCCB						375	1.6	1.63	1.52	III		X				1.2		1.7			1-A			8.8					0.4								
22+110.0	22+145.0	RT	147	PRCCB	PRCCB						450	33.0	1.63	1.52	III		X				1.5		2.5			1-D			71.2					7.8								
22+145.0	22+145.0	RT	148	PRCCB	PRCCB						375	1.6	1.63	1.52	III		X				1.2		2.0			1-A			11.0					0.4								
22+145.0	22+180.0	RT	149	PRCCB	PRCCB						450	32.7			III		X				1.5		2.0			2-D			41.1					7.7								
	SUBTOTALS SHEET 4										150	1.4						X			-	-	-	10.27	830.9	-			2358.5				1520.0	195.8	1		3.6	I	2	1	192.4	
											300	8.9	1.63	1.52					2		-	-	-			-	-								80.4	II				
											300	1.2						X		12	~~13~~	1	1.2	Dia.		5	A											III				
											375	18.7	1.63	1.52	III		X				10	1	1.5	Dia.			B								90.5	E2				
											375	14.6			III		X				1	1	1.8	Dia.		13	D								103.1	E4				
											450	94.3	1.63	1.52	III		X				2		2.1	Dia.		7	E													
											450	10.0	1.63	1.52						1		2	2.4	Dia.		5	COVER													
											450	104.8			III		X									5	STEEL													
											600	38.1	1.63	1.52					2																						
											600	109.5			III		X																								
											750	12.9	2.01	1.91																											
											750	64.9			III		X			1																					
											1050	37.0			III																										
											1350	90.1			III																										
											1500	21.5			IV																										

REV	DATE	DESCRIPTION
2	4/6/2017	CORRECTED DEPTH CB/MH VALUES TO REFLECT FINAL DRAINAGE LAYOUT ON CROSS SECTIONS

PROJECT NAME: BRANDON
PROJECT NUMBER: NH 019-3(496)

FILE NAME: zb008_5dds.xls
PROJECT LEADER: C. BEAN
DESIGNED BY: W. GORDON
DRAINAGE DETAIL SHEET # 4

PLOT DATE: 4/6/2017
DRAWN BY: W. GORDON
CHECKED BY: J. BRZEZOWSKI
SHEET 33 OF 601

DRAINAGE DETAIL SHEET 5

ISSUED FOR CONSTRUCTION

Metric

STATION km + m	STATION km + m	POS.	PIPE ID NUMBER	INLET/OUTLET TYPE INLET	OUTLET	DITCH IN	OUT	PIPE ARCH SPAN mm	RISE mm	L m	PIPE D mm	L m	ALLOWABLE OPTIONS PCCSP mm	CAAP mm	RCP CL	CSP mm	CPEP SL	PVC	PIPE ELBOW no. deg	ES ea	PRC CB Dia.	PRC MH Dia.	DEPTH CB/MH m	CONC CLASS B m³	REINF STEEL kg	GRATE type	CHAN ELEV ea	FLOW FILL m³	TRENCH EXCAVATION EARTH m³	ROCK m³	COMM EXC m³	UNC CHAN EXC m³	STRUCT EXCAV m³	GRAN BKFILL STRUCT m³	REHAB DI,CB,MH CL II ea	EROS MATT m²	STONE FILL m³	type	MARKER POSTS IN ea	OUT ea	GEO UNDER SF m²	REMARKS
22+180.0	22+185.5	RT/LT	150	PRCCB	PRCCB						450	16.5			III		X				1.2		1.9			1-D			23.2					3.9								
22+183.3	22+185.5	LT	151	PRCCB	PRCCB						375	4.1			III		X				1.2		1.4			1-D			13.6					0.9								
22+120.0	19+023.0	LT	152	PRCCB	PRCCB						450	20.7			III		X				1.2		2.7			1-D			110.0					4.9								
19+023.0	19+065.0	LT	153	PRCCB	PRCCB						450	40.7			III		X				1.5		2.2			1-D			106.6					9.6								
19+065.0	19+077.7	LT	154	PRCCB	PRCCB						375	13.9			III		X				1.2		1.6			1-A			46.4					3.1								
19+065.0	19+065.0	LT/RT	155	PRCCB	PRCCB						450	5.7			III		X				1.2		2.0			1-D			15.1					1.3								
19+065.0	19+065.0	RT	156	PRCCB	PRCCB						375	8.1			III		X				1.2		1.6			1-A			25.9					1.8								
19+065.0	18+021.9	RT/LT	157	PRCCB	PRCCB						375	36.0			III		X				1.2		1.5			1-D			94.5					8.1								
22+204.0	22+230.7	RT	158	PRCCB	PRCCB						450	24.7			III		X				1.2		1.7			1-D			13.9					5.8								
18+026.0	22+230.7	RT/LT	159	PRCCB	PRCCB						375	25.2			III		X				1.2		1.7			1-D			76.9					5.7								
22+230.7	22+230.7	LT/RT	160	PRCCB	PRCCB						450	9.1			III		X				1.2		2.0			1-D			9.7					2.1								
22+230.7	22+240.0	RT	161	PRCCB	PRCCB						450	7.7			III		X				1.5		2.6			2-D			13.2					1.8								PROVIDE 900 mm EXTENDED SUMP AT INLET
22+240.0	22+267.0	RT	162	PRCCB	PRCCB						450	25.1			III		X				1.2		2.0			1-STEEL			28.3					5.9								
22+266.7	22+267.0	RT	163	PRCCB	PRCCB						450	20.3			III		X				1.2		1.7			1-A			74.2					4.8								
22+267.0	22+267.0	RT/LT	164	PRCCB	PRCCB						450	10.9			III		X				1.2		1.7			1-D			22.0					2.6								
22+250.0	22+267.0	LT	164A	PRCCB	PRCCB						375	16.7			III		X				1.2		~~1.8~~	1.7		1-A			49.1					3.8								
22+267.0	22+314.8	RT	165	PRCCB	PRCCB						600	45.8			III		X				1.5		2.5			1-D			98.8					12.0								
22+302.5	22+314.8	LT/RT	166	PRCCB	PRCCB						375	15.5			III		X				1.2		2.0			1-D			31.3					3.5								
22+314.8	22+316.0	RT	167	PRCCB	PRCCB						450	10.2			III		X				1.5		~~1.8~~	2.1		2-A			43.1					2.4								
22+305.0	22+316.0	RT	168	PRCCB	PRCCB						375	9.4	1.63	1.52	III		X				1.2		~~1.6~~	2.0		1-D			33.8					2.1								
22+305.0	22+305.0	RT	169	EXIST	PRCCB						150	0.5				X																									CONNECT TO EXISTING PIPE
22+303.2	22+305.0	RT	169A	EXIST	PRCCB						100	1.2						X			~~1.2~~		~~1.6~~			~~1.0~~			8.0					0.2								**CONNECT TO EXISTING PIPE**
22+314.8	22+360.0	RT	170	PRCCB	PRCCB						750	43.3			III		X				2.4		~~2.9~~	3.6		1-D			134.8					12.7								PROVIDE 900 mm EXTENDED SUMP AT INLET
22+360.0	22+360.0	LT/RT	171	PRCCB	PRCCB						450	6.3			III		X				1.2		2.1			1-D			10.5					1.5								
22+360	22+403	RT	172	PRCCB	PRCCB						750	41.4			III		X				1.5		2.9			1-D			128.5					12.1								
22+395.0	22+403.0	RT	173	PRCCB	PRCCB						375	13.5	1.63	1.52	III		X				1.5		~~1.8~~	1.9		2-A			37.2					3.0								
22+403.0	22+403.0	LT/RT	174	PRCCB	PRCCB						450	6.3			III		X				1.2		2.2			1-D			11.3					1.5								
22+403.0	22+445.0	RT	175	PRCCB	PRCCB						750	40.5			III		X				1.5		3.1			1-D			109.5	14.6				11.8								
22+445.0	22+460.0	RT	176	PRCCB	PRCCB						750	13.6	2.01	1.91	III		X				1.2		2.6			1-E			11.9	21.5				4.0								
22+460.0	22+510.0	RT	177	PRCCB			X				300	49.8					X		3-*	1									84.1					10.5			8.8	I			38.0	DIVERSION PIPE (TYPE 2) *W/ONE 45°, ONE 30°, AND ONE 11.25° WATER TIGHT ELBOWS STONE FILL, TYPE I CHANNEL AT OUTLET
22+460.0	22+500.0	RT	178	PRCCB	PRCCB						750	38.4	2.01	1.91							1.5		~~2.0~~	3.6		1-E			70.4	11.9				11.2								DIVERSION STRUCTURE AT INLET
22+495	22+500	LT/RT	179	PRCCB	PRCCB						450	10.7			III		X				1.2		2.1			1-E			14.6					2.5								
22+500.0	22+552.0	RT	180	PRCCB	PRCCB						750	50.5			III		X				1.5		2.4			1-E			83.6					14.8								
22+552.0	22+552.0	RT/LT	181	PRCCB	PRCCB						750	9.3			III		X				1.5		2.4			1-E			22.8					2.7								
22+511.0	22+609.0	RT	182																																							STORMWATER TREATMENT GRASS CHANNEL. PAID UNDER COMMON EXCAVATION.
22+552.0	22+611.0	LT	183	PRCCB	PRCCB						750	57.5			III		X				1.5		~~2.4~~	2.6		1-E			106.7					16.8								
22+611.0	22+635.0	LT	184	PRCCB	PRCCB						900	22.4			III		X				1.5		2.3			2-STEEL			49.7					7.1								
22+611.0	22+611.0	RT	185	ES	PRCCB	X					450	4.8			III		X			1									18.3	3.0				1.1			16.0	I	1		65.8	DEBRIS RACK, TYPE B AND STONE FILL, TYPE I CHANNEL AT INLET
22+611.0	22+620.0	RT	186	PRCCB	PRCCB						600	7.5			III		X				1.5		2.1			2-STEEL				12.4				2.0								
	SUBTOTALS SHEET 5										100	1.2						X			-	-	-			-			1831.5	63.4				201.7			24.8	I	1		103.8	
											150	0.5				X					-	-	-			-												II				
											300	49.8					X		3	1	~~21~~	20	1.2	Dia.		8	A												III				
											375	22.9	1.63	1.52	III		X				13		1.5	Dia.			B												E2				
											375	119.5			III		X						1.8	Dia.	20	~~21~~	D												E4				
											450	219.7			III		X			1			2.1	Dia.		6	E																
											600	53.3			III		X				1		2.4	Dia.			COVER																
											750	13.6	2.01	1.91	III		X									5	STEEL																
											750	38.4	2.01	1.91																												
											750	242.5			III		X																										
											900	22.4			III		X																										

REV	DATE	DESCRIPTION
2	4/6/2017	CORRECTED DEPTH CB/MH VALUES TO REFLECT FINAL DRAINAGE LAYOUT ON CROSS SECTIONS

PROJECT NAME: **BRANDON**

PROJECT NUMBER: **NH 019-3(496)**

FILE NAME: **zb008_5dds.xls**
PROJECT LEADER: **C. BEAN**
DESIGNED BY: **W. GORDON**
DRAINAGE DETAIL SHEET # 5

PLOT DATE: 4/6/2017
DRAWN BY: **W. GORDON**
CHECKED BY: **J. BRZEZOWSKI**

DRAINAGE DETAIL SHEET 6

ISSUED FOR CONSTRUCTION

USC Metric

STATION	STATION	POS.	PIPE ID NUMBER	INLET/OUTLET TYPE		DITCH		PIPE ARCH			PIPE		ALLOWABLE OPTIONS						PIPE ELBOW	ES	PRC CB	PRC MH	DEPTH CB/MH	CONC CLASS B	REINF STEEL	GRATE	CHAN ELEV	FLOW FILL	TRENCH EXCAVATION		COMM EXC	UNC CHAN EXC	STRUCT EXCAV	GRAN BKFILL STRUCT	REHAB DI,CB,MH CL II	EROS MATT	STONE FILL		MARKER POSTS		GEO UNDER SF		REMARKS
km + m	km + m			INLET	OUTLET	IN	OUT	SPAN mm	RISE mm	L m	D mm	L m	PCCSP mm	CAAP mm	RCP CL	CSP mm	CPEP SL	PVC	no. deg	ea	Dia.	Dia.	m	m^3	kg	type	ea	m^3	EARTH m^3	ROCK m^3	m^3	m^3	m^3	m^3	ea	m^2	m^3	type	IN ea	OUT ea	m^2		
22+620.0	22+635.0	RT	187	PRCCB	PRCCB						750	13.4			III		X			1.5		2.2			2-STEEL			1.8	23.5				3.9								
22+635.0	22+635.0	LT/RT	188	PRCCB	PRCCB						750	8.2			III		X			1.8		2.4			2-STEEL			12.6	14.8				2.4								
22+635.0	22+660.0	RT	189	PRCCB	PRCCB						450	23.5			III		X			1.2		2.0			1-E			56.1					5.6								
22+635.0	22+641.7	LT	190	PRCCB	HW		X				1050	8.2			III					1.8		2.6	6.27	449.1	1-D			72.0					2.8			4.0	II			15.1		NEW FULL HEADWALL AND STONE FILL, TYPE II PAD AT OUTLET
EXISTING DRAINAGE																																									
US 7																																									
20+820.0	20+850.0	RT	0								600																															RETAIN MH. REMOVAL OF PIPE INCIDENTAL TO PROPOSED PIPE.
20+828.3	20+840.5	RT	1								380																															REMOVAL INCIDENTAL TO DRIVE CONSTRUCTION.
20+850.0	20+879.5	RT	2								450																	12.4													REMOVE MH. REMOVAL OF 21.0 m OF PIPE INCIDENTAL TO ROADWAY CONSTRUCTION.
20+879.4	20+879.5	LT/RT	3								450																	3.2													REMOVE DI. REMOVAL OF PIPE & HW INCIDENTAL PROPOSED PIPE
20+977.1	20+986.5	RT	4								200																															REMOVAL OF PIPE INCIDENTAL TO ROADWAY CONSTRUCTION. PLUG & ABANDON REMAINING.
21+012.8	21+049.5	LT	5								600																															REMOVAL INCIDENTAL TO PROPOSED PIPE.
21+049.5	21+056.8	LT/RT	6								600																	26.3													REMOVE HW. REMOVAL OF 10 m OF PIPE INCIDENTAL TO PROPOSED PIPE.
21+082.9	21+096.9	RT	7								250																															REMOVAL INCIDENTAL TO ROADWAY CONSTRUCTION.
21+096.9	21+112.1	RT	8								100																															REMOVAL INCIDENTAL TO ROADWAY CONSTRUCTION.
21+192.7	21+199.1	RT	8A								100																															REMOVAL OF DI INCIDENTAL TO PROPOSED PIPE. PLUG & ABANDON PIPE.
21+226.9	21+226.9	LT	9																																						REMOVAL INCIDENTAL TO ROADWAY CONSTRUCTION.
21+323.4	21+371.1	LT	10								300																3.32	6.2													REMOVE DI. FILL & ABANDON PIPE.
21+371.1	21+397.8	LT	11								300																1.82	3.7													REMOVE DI. FILL & ABANDON PIPE.
21+397.8	21+473.5	LT	12								300																	55.0													REMOVE DI. REMOVAL OF 42.0 m OF PIPE INCIDENTAL TO PROPOSED PIPE.
21+473.5	21+474.1	LT/RT	13								450																	24.8													REMOVE DI & PIPE.
21+474.1	21+474.2	RT	14								300																	7.5													REMOVE DI & PIPE.
21+474.2	21+480.6	RT	15								300																															REMOVAL INCIDENTAL TO ROADWAY CONSTRUCTION.
21+473.5	21+512.2	LT	16								450																	37.6													REMOVAL OF DI INCIDENTAL TO PROPOSED PIPE. REMOVE PIPE.
21+512.2	22+522.9	LT/RT	17								375																	22.5													REMOVE DI & PIPE.
22+522.9	30+062.1	RT	18								375																	41.3													REMOVE DI & PIPE.
21+512.2	21+572.4	LT	19								450																	90.5													REMOVE MH. REMOVAL OF 35.0 m OF PIPE INCIDENTAL TO PROP. PIPE.
21+572.4	21+571.2	LT	20								300																	12.4													REMOVE MH & PIPE.
21+571.2	21+574.8	LT	20A								300																	15.4													REMOVE DI & PIPE.
21+572.4	35+048.4	LT	21								450																	15.6													RETAIN DI. REMOVE PIPE TO L.O.W. PLUG & ABANDON REMAINING PIPE.
35+042.9	35+048.4	RT/LT	22								300																	16.7													REMOVE DI & PIPE.
21+572.4	34+089.3	LT/RT	23								600																	247.9													REMOVAL OF MH AND 30 m OF PIPE INCIDENTAL TO PROPOSED PIPE.
34+089.3	34+194.2	RT	24								600																29.38	16.5													REMOVE DI. FILL & ABANDON PIPE.
34+089.0	34+089.3	LT/RT	24A								300																0.69	15.4													REMOVE DI. FILL & ABANDON PIPE.
34+194.2	34+207.0	RT	25								600																	41.9													REMOVAL OF DI INCIDENTAL TO PROPOSED CB.
34+207.0	37+067.5	RT/LT	25A								600																															REMOVAL OF DI & PIPE INCIDENTAL TO PROP. PIPE.
37+067.5	37+160.4	LT	25B								600																															REMOVAL OF DMH & PIPE INCIDENTAL TO PROP. PIPE.
37+155.3	37+160.4	LT	25C								300																															REMOVAL OF DI & PIPE INCIDENTAL TO PROP. PIPE.
21+710.4	21+747.6	LT	26								300																	24.6													REMOVE DI & PIPE.
	SUBTOTALS SHEET 6										450	23.5			III		X			-	-	-	6.27	449.1	-		35.2	879.9	38.3				14.7				I		15.1		
											750	21.6			III		X			-	-	-			-												4.0	II				
											1050	8.2			III					1		1.2	Dia.			A													III			
																				1		1.5	Dia.			B													E2			
																				2		1.8	Dia.		1	D													E4			
																						2.1	Dia.		1	E																
																						2.4	Dia.			COVER																
																									4	STEEL																

PROJECT NAME: **BRANDON**

PROJECT NUMBER: **NH 019-3(496)**

FILE NAME: **zb008_5dds.xls**
PROJECT LEADER: **C. BEAN**
DESIGNED BY: **W. GORDON**
DRAINAGE DETAIL SHEET # 6

PLOT DATE: 2/23/2017
DRAWN BY: **W. GORDON**
CHECKED BY: **J. BRZEZOWSKI**
SHEET 35 OF 601

DRAINAGE DETAIL SHEET 7

ISSUED FOR CONSTRUCTION

Metric

STATION	STATION	POS.	PIPE ID NUMBER	INLET/OUTLET TYPE		DITCH		PIPE ARCH			PIPE		ALLOWABLE OPTIONS						PIPE ELBOW	ES	PRC CB	PRC MH	DEPTH CB/MH	CONC CLASS B	REINF STEEL	GRATE	CHAN ELEV	FLOW FILL	TRENCH EXCAVATION		COMM EXC	UNC CHAN EXC	STRUCT EXCAV	GRAN BKFILL STRUCT	REHAB DI,CB,MH CL II	EROS MATT	STONE FILL		MARKER POSTS		GEO UNDER SF		REMARKS
km + m	km + m			INLET	OUTLET	IN	OUT	SPAN mm	RISE mm	L m	D mm	L m	PCCSP mm	CAAP mm	RCP CL	CSP mm	CPEP SL	PVC	no. deg	ea	Dia.	Dia.	m	m^3	kg	type	ea	m^3	EARTH m^3	ROCK m^3	m^3	m^3	m^3	m^3	ea	m^2	m^3	type	IN ea	OUT ea	m^2		
21+712.0	21+712.1	LT	27								375																		6.2													REMOVE DI & PIPE TO L.O.W. PLUG & ABANDON REMAINING PIPE.
21+747.6	21+758.5	LT	27A								375																		4.2													REMOVE DI & PIPE TO L.O.W. PLUG & ABANDON REMAINING PIPE.
21+781.7	21+781.8	RT	28								250																		6.6													REMOVE DI. PLUG & ABANDON PIPE.
21+783.1		LT	29																								1															ADJUST ELEVATION OF FRAME/GRATE
21+802.3	21+803.7	LT	30								300																															REMOVE UNDER BHF 019-3(58)
21+806.3	21+811.8	RT	31								300																		5.2													REMOVE DI. PLUG & ABANDON PIPE.
9+019.5	9+029.3	RT	32								250																		4.8													REMOVE DI. PLUG & ABANDON PIPE.
9+029.3	9+050.7	RT/LT	33								300																		12.5													REMOVE PIPE. REMOVAL OF DI INCIDENTAL TO PROPOSED CB.
9+052.8	9+059.5	RT	34								250																		6.0													REMOVE DI. PLUG & ABANDON PIPE.
21+845.5	21+848.9	RT	35								300																		16.0													REMOVE DI & PIPE.
21+848.9	21+859.3	RT	36								300																															REMOVAL INCIDENTAL TO PROPOSED PIPE.
21+859.3	21+889.8	RT	37								300																															REMOVAL INCIDENTAL TO ROADWAY CONSTRUCTION
21+876.4	21+889.8	RT	38								250																		13.4													REMOVE PIPE TO L.O.W. PLUG & ABANDON REMAINING.
21+887.1	21+888.9	LT	39								450																		4.8													REMOVE DI. PLUG & ABANDON PIPE.
21+891.3	21+892.1	LT/RT	39A																								51.61	13.5	12.6													REMOVE MH. FILL & ABANDON BOX CULVERT TO ROW.
21+889.8	21+901.9	RT	40								300																		12.2													REMOVE DI & PIPE.
21+894.6	21+895.7	RT	41								750																															REMOVAL OF DI & PIPE INCIDENTAL TO PROP. PIPE.
21+901.9	21+944.7	RT	42								300																		28.1													REMOVE DI & PIPE.
21+944.7	21+961.2	RT	43								200																															REMOVAL OF DI & PIPE INCIDENTAL TO ROADWAY CONSTRUCTION
21+944.7	8+009.1	RT	44								300																		2.5													REMOVE DI. REMOVAL OF PIPE INCIDENTAL TO ROADWAY CONSTRUCTION.
8+009.1	8+059.9	RT	45								300																		20.8													REMOVAL OF 17 m OF PIPE INCIDENTAL TO PROPOSED PIPE.
21+888.6	21+895.7	RT	46								750																		50.5													REMOVE PIPE.
22+087.4	22+094.0	LT	47								300																		16.2													REMOVE DI & PIPE.
22+083.0	22+087.6	LT	48								300																		217.7													REMOVE DI & PIPE TO L.O.W. PLUG & ABANDON REMAINING PIPE.
22+086.9	22+087.6	RT/LT	49								300																		37.7													REMOVE DI & PIPE.
22+086.9	22+131.3	RT	50								300																		80.6													REMOVE DI & PIPE.
22+131.3	22+164.9	RT	51								300																		40.5													REMOVE DI & PIPE.
19+035.2	19+035.2	RT	52								200																		7.4													REMOVE DI & STAND PIPE.
19+041.0	19+052.3	RT	53								300																		5.6													REMOVE DI. PLUG & ABANDON PIPE.
22+255.8	22+262.8	LT	54								300																															PLUG & ABANDON PIPE.
22+255.8	22+265.4	LT/RT	55								300																		8.9													REMOVE DI & PIPE.
22+265.4	22+266.7	RT	56								300																		13.9													REMOVE PIPE.
22+265.4	22+322.1	RT	57								300																		75.5													REMOVE DI & PIPE.
22+329.9	22+329.9	RT	58								100																															REMOVAL INCIDENTAL TO SWLK CONSTRUCTION.
22+322.1	22+352.2	RT	59								300																		15.0													REMOVE DI & PIPE TO L.O.W. PLUG & ABANDON REMAINING PIPE.
22+384.2	22+384.3	LT/RT	60								300																		3.8													REMOVE DI & PIPE TO L.O.W. PLUG & ABANDON REMAINING PIPE.
22+503.2	22+511.6	RT	61								300																		0.9													REMOVE PIPE.
22+547.1	22+549.5	LT	62								450																		5.8													REMOVE DI. PLUG & ABANDON PIPE.
22+617.8	22+618.0	RT	63								750																		3.9	14.1												REMOVE DI & PIPE.
22+617.8	22+643.1	RT/LT	64								750																		69.8	28.5												REMOVE DI & PIPE.
	SUBTOTALS SHEET 7																			-	-	-			-	1	51.6	810.5	55.2							I					
																				-	-	-			-	-										II					
																						1.2	Dia.			A										III					
																						1.5	Dia.			B										E2					
																						1.8	Dia.			D										E4					
																						2.1	Dia.			E															
																						2.4	Dia.			COVER STEEL															

PROJECT NAME:	**BRANDON**
PROJECT NUMBER:	**NH 019-3(496)**
FILE NAME:	**zb008_5dds.xls**
PROJECT LEADER:	**C. BEAN**
DESIGNED BY:	**W. GORDON**
DRAINAGE DETAIL SHEET # 7	
PLOT DATE:	2/23/2017
DRAWN BY:	**W. GORDON**
CHECKED BY:	**J. BRZEZOWSKI**
SHEET	36 OF 601

DRAINAGE DETAIL SHEET 8

ISSUED FOR CONSTRUCTION

Metric

STATION km + m	STATION km + m	POS.	PIPE ID NUMBER	INLET/OUTLET TYPE		DITCH		PIPE ARCH			PIPE		ALLOWABLE OPTIONS						PIPE ELBOW no. deg	ES ea	PRC CB Dia.	PRC MH Dia.	DEPTH CB/MH m	CONC CLASS B m^3	REINF STEEL kg	GRATE type	CHAN ELEV ea	FLOW FILL m^3	TRENCH EXCAVATION		COMM EXC m^3	UNC CHAN EXC m^3	STRUCT EXCAV m^3	GRAN BKFILL STRUCT m^3	REHAB DI,CB,MH CL II ea	EROS MATT m^2	STONE FILL		MARKER POSTS		GEO UNDER SF m^2			REMARKS
				INLET	OUTLET	IN	OUT	SPAN mm	RISE mm	L m	D mm	L m	PCCSP mm	CAAP mm	RCP CL	CSP mm	CPEP SL	PVC											EARTH m^3	ROCK m^3							m^3	type	IN ea	OUT ea				
PROJECT TOTALS											100	7.6					X			-	-		22.41	1820.5	-	1	86.8	12999.4	314.9			1520.0	923.1	3		28.4	I	4	2	361.7			
											150	22.5					X			-	-				-	-										98.7	II						
											150	0.5				X			2	100	~~402~~	2	1.2	Dia.		16	A											III						
											200	9.4					X				43	4	1.5	Dia.			B									105.4	E2						
											300	35.9	1.63	1.52	III			X			9	2	1.8	Dia.	90	~~91~~	D									172.4	E4						
											300	3.6	1.63								2	1	2.1	Dia.		48	E																
											300	8.9	1.63	1.52						2	2	2	2.4	Dia.		11	COVER																
											300	2.3			III			X								26	STEEL																
											300	82.8						X		6	1																					
											300	2.4					X																										
											375	80.4	1.63	1.52	III			X																										
											375	3.6	1.63	1.52																														
											375	134.1			III			X																										
											375	53.8			IV																													
											450	804.6	1.63	1.52	III			X																										
											450	10.0	1.63	1.52									1																					
											450	719.2			III			X					1																					
											450	6.5			III																													
											450	52.7			IV																													
											450	23.2						X																										
											600	69.2	1.63	1.52	III			X																										
											600	64.7	1.63	1.52						2																								
											600	313.0			III			X					1																					
											750	1.2	1.63																															
											750	13.6	2.01	1.91	III			X																										
											750	51.3	2.01	1.91																														
											750	693.4			III			X					1																					
											900	26.5	2.01	1.91									1																					
											900	22.4			III			X																										
											900	37.2			IV																													
											1050	45.2			III																													
											1350	90.1			III																													
											1500	21.5			IV																													

REV	DATE	DESCRIPTION
2	4/6/2017	CORRECTED TOTAL NUMBER OF 1.2 m DIA. CB'S.

PROJECT NAME: **BRANDON**

PROJECT NUMBER: **NH 019-3(496)**

FILE NAME: **zb008_5dds.xls**
PROJECT LEADER: **C. BEAN**
DESIGNED BY: **W. GORDON**
DRAINAGE DETAIL SHEET # 8

PLOT DATE: 4/6/2017
DRAWN BY: **W. GORDON**
CHECKED BY: **J. BRZEZOWSKI**
SHEET 37 OF 601

EARTHWORKS

ISSUED FOR CONSTRUCTION

Metric

STATION km + m	DIST m	TOTAL EXCAVATION EARTH AND ROCK AREA m²	TOTAL EXCAVATION EARTH AND ROCK VOLUME m³	ROCK EXCAVATION AREA m²	ROCK EXCAVATION VOLUME m³	EMBANKMENT AREA m²	EMBANKMENT VOLUME m³		
US 7									
20+736	Begin Approach	0.00		0.00		0.00			
	8								
20+744		0.00		0.00		0.00			
	8								
20+752		0.00		0.00		0.00			
	8		23.0				0.2		
20+760		5.47		0.00		0.04			
	18		145.5				0.9		
20+778	End Approach	11.06		0.00		0.06			
	2		26.5				0.1		
20+780		11.06		0.00		0.06			
	20		253.4				2.5		
20+800		14.28		0.00		0.19			
	20		299.9				4.1		
20+820		15.71		0.00		0.22			
	20		315.2				2.2		
20+840		15.81		0.00		0.00			
	20		319.4						
20+860		16.13		0.00		0.00			
	20		358.9						
20+880		19.76		0.00		0.00			
	20		393.4		8.4				
20+900		19.58		0.84		0.00			
	20		404.9		9.1				
20+920		20.91		0.07		0.00			
	20		417.6						
20+940		20.85		0.00		0.00			
	20		415.6				1.5		
20+960		20.71		0.00		0.15			
	20		421.8				7.8		
20+980		21.47		0.00		0.63			
	20		413.0				6.3		
21+000		19.83		0.00		0.00			
	20		382.3						
21+020		18.40		0.00		0.00			
	20		374.0				12.1		
21+040		19.00		0.00		1.21			
	20		356.9				145.0		
21+060		16.69		0.00		13.29			
	20		344.2				167.1		
21+080		17.73		0.00		3.42			
	20		349.0				36.2		
21+100		17.17		0.00		0.20			
	20		347.1				2.0		
21+120		17.54		0.00		0.00		CUT	16107.1
	20		373.7					ROCK	17.5
21+140		19.83		0.00		0.00		R.FAC	0.495
	20		428.5					FILL	414.4
21+160		23.02		0.00		0.01		F.FAC	1.15
	20		474.1					EX. C	15639.1
21+180		24.39		0.00		0.00			
	20		467.9						
21+200		22.40		0.00		0.00			
	20		461.8						
21+220		23.78		0.00		0.00			
	20		442.9						
21+240		20.51		0.00		0.00			
	20		426.2				0.1		
21+260		22.11		0.00		0.01			
	20		440.8				0.2		
21+280		21.97		0.00		0.01			
	20		413.4				0.1		
21+300		19.37		0.00		0.00			
	20		395.9				0.5		
21+320		20.22		0.00		0.05			
	20		403.1				0.5		
21+340		20.09		0.00		0.00			
	20		406.0				0.1		
21+360		20.51		0.00		0.00			
	20		394.3				0.0		
21+380		18.92		0.00		0.00			
	20		335.3				0.7		
21+400		14.61		0.00		0.07			
	20		298.5				5.1		
21+420		15.24		0.00		0.44			
	20		316.4				11.0		
21+440		16.40		0.00		0.66			
	20		356.8				7.3		
21+460		19.28		0.00		0.07			
	20		415.4				0.7		
21+480		22.26		0.00		0.00			
	20		495.9						
21+500		27.33		0.00		0.00			
	20		509.3						
21+520		23.60		0.00		0.00			
	20		480.6				0.1		
21+540		24.46		0.00		0.01			
	20		496.5				0.1		
21+560		25.19		0.00		0.00			
	20		512.2						
21+580		26.03		0.00		0.00			
			16107.1		17.5		414.4		

STATION km + m	DIST m	TOTAL EXCAVATION EARTH AND ROCK AREA m²	TOTAL EXCAVATION EARTH AND ROCK VOLUME m³	ROCK EXCAVATION AREA m²	ROCK EXCAVATION VOLUME m³	EMBANKMENT AREA m²	EMBANKMENT VOLUME m³		
US 7									
21+580		26.03		0.00		0.0			
	20		472.4				3.7		
21+600		21.21		0.00		0.4			
	20		378.7				5.8		
21+620		16.66		0.00		0.2			
	20		315.9				3.6		
21+640		14.93		0.00		0.2			
	20		334.7				5.7		
21+660		18.54		0.00		0.4			
	20		403.3				16.4		
21+680		21.79		0.00		1.2			
	20		368.9				23.4		
21+700		15.10		0.00		1.1			
	20		433.3				11.2		
21+720		28.23		0.00		0.0			
	20		571.3						
21+740		28.90		0.00		0.0			
	20		516.6						
21+760		22.76		0.00		0.0			
	20		520.4				0.1		
21+780		29.28		0.00		0.0			
	12		308.3				0.1		
21+792		22.10		0.00		0.0			
	8		176.8						
21+800		22.10		0.00		0.0			
	5		110.5						
21+805		22.10		0.00		0.0			
	10		111.1						
21+815	Begin Bridge	0.11		0.00		0.0			
	5		0.6						
21+820		0.11		0.00		0.0			
	15		1.7				0.1		
21+835	Begin Bridge	0.11		0.00		0.0			
	5		19.5				0.2		
21+840		7.68		0.00		0.1			
	5		38.4				0.5		
21+845		7.68		0.00		0.1			
	11		125.1				2.5		
21+856		15.06		0.00		0.4			
	4		60.2				1.4		
21+860		15.06		0.00		0.4			
	20		293.3				3.6		
21+880		14.27		0.00		0.0			
	20		296.0						
21+900		15.33		0.00		0.2		CUT	16319.6
	20		347.0					ROCK	0.0
21+920		19.37		0.00		0.0		R.FAC	0.495
	20		419.5				0.1	FILL	99.5
21+940		22.58		0.00		0.0		F.FAC	1.15
	20		454.2				0.1	EX. C	16205.2
21+960		22.84		0.00		0.0			
	20		459.1						
21+980		23.07		0.00		0.0			
	20		428.5						
22+000		19.78		0.00		0.0			
	20		374.8						
22+020		17.70		0.00		0.0			
	20		407.8				0.1		
22+040		23.08		0.00		0.0			
	20		466.7				0.2		
22+060		23.59		0.00		0.0			
	20		466.5				0.7		
22+080		23.06		0.00		0.1			
	20		482.8				1.5		
22+100		25.22		0.00		0.1			
	20		525.7				3.5		
22+120		27.35		0.00		0.3			
	20		500.0				2.6		
22+140		22.65		0.00		0.0			
	20		447.8				2.8		
22+160		22.13		0.00		0.3			
	20		541.8				2.8		
22+180		32.05		0.00		0.0			
	20		585.7						
22+200		26.52		0.00		0.0			
	20		589.6				0.9		
22+220		32.44		0.00		0.1			
	20		617.1				1.0		
22+240		29.27		0.00		0.0			
	20		486.2				0.2		
22+260		19.35		0.00		0.0			
	20		383.3				0.2		
22+280		18.98		0.00		0.0			
	20		351.3				0.2		
22+300		16.15		0.00		0.0			
	20		346.5				1.7		
22+320		18.50		0.00		0.2			
	20		390.5				1.8		
22+340		20.55		0.00		0.0			
	20		390.4				0.8		
22+360		18.49		0.00		0.0			
			16319.6		0.0		99.5		

STATION km + m	DIST m	TOTAL EXCAVATION EARTH AND ROCK AREA m²	TOTAL EXCAVATION EARTH AND ROCK VOLUME m³	ROCK EXCAVATION AREA m²	ROCK EXCAVATION VOLUME m³	EMBANKMENT AREA m²	EMBANKMENT VOLUME m³		
US 7									
22+360		18.49		0.00		0.06			
	20		365.8				0.6		
22+380		18.09		0.00		0.00			
	20		415.0				2.0		
22+400		23.41		0.00		0.20			
	20		421.5				4.0		
22+420		18.74		0.00		0.20			
	20		359.7				2.5		
22+440		17.23		0.00		0.05			
	20		349.9				1.8		
22+460		17.76		0.00		0.13			
	20		343.6				2.9		
22+480		16.60		0.00		0.16			
	20		349.7				1.8		
22+500		18.37		0.00		0.02			
	20		385.9				13.5		
22+520		20.22		0.00		1.33			
	20		406.2				22.9	CUT	5551.5
22+540		20.40		0.00		0.96		ROCK	7.1
	20		408.6				15.9	R.FAC	0.495
22+560		20.46		0.00		0.63		FILL	118.2
	20		413.5				13.1	F.FAC	1.15
22+580		20.89		0.00		0.68		EX. C	5419.1
	20		416.9				10.1		
22+600		20.80		0.00		0.33			
	20		378.2		4.7		11.9		
22+620		17.02		0.47		0.86			
	10		170.2		2.4		8.6		
22+630	End Project	17.02		0.00		0.86			
	10		139.9				4.8		
22+640		10.95		0.00		0.10			
	16		175.2				1.6		
22+656		10.95		0.00		0.10			
	4		26.9				0.2		
22+660		2.49		0.00		0.00			
	20		24.9						
22+680	End Approach	0.00		0.00		0.00			
			5551.5		7.1		118.2		
HIGH STREET									
40+005		24.68		4.85		0.00			
	15		370.2		72.8				
40+020		24.68		4.85		0.00			
	17		317.7		41.2				
40+037		12.70		0.00		0.00			
	3		34.9						
40+040		10.58		0.00		0.00		CUT	790.2
	1		7.9					ROCK	114.0
40+041		10.58		0.00		0.00		R.FAC	0.495
	11		59.5					FILL	0.000
40+052		0.00		0.00		0.00		F.FAC	1.15
	8							EX. C	846.7
40+060		0.00		0.00		0.00			
	10								
40+070	Limit of Work	0.00		0.00		0.00			
			790.2		114.0				
CARVER STREET									
34+010		11.46		0.00		0.00			
	10		114.6						
34+020		11.46		0.00		0.00			
	20		271.7						
34+040		15.71		0.00		0.00			
	10		150.0				0.9		
34+050		14.29		0.00		0.17		CUT	662.1
	10		107.7				0.9	ROCK	0.0
34+060		7.25		0.00		0.00		R.FAC	0.495
	5		18.1					FILL	1.7
34+065		0.00		0.00		0.00		F.FAC	1.15
	15							EX. C	660.2
34+080		0.00		0.00		0.00			
	5								
34+085	Limit of Work	0.00		0.00		0.00			
			662.1				1.7		
ROSSITER STREET									
37+008		0.00		0.00		0.00			
	12		30.4						
37+020		5.07		0.00		0.00			
	5		24.3						
37+025		4.66		0.00		0.00		CUT	157.5
	15		69.4					ROCK	0.0
37+040		4.59		0.00		0.00		R.FAC	0.495
	12		33.4					FILL	0.0
37+052		0.98		0.00		0.00		F.FAC	1.15
	18							EX. C	157.5
37+070	Limit of Work	0.00		0.00		0.00			
			158						

SUMMARY AND BALANCES

STATION km + m	STATION km + m	TOT EXC. EARTH & ROCK m³	ROCK EXCAV m³	EMBANK m³	EXCESSES CUT	EXCESSES FILL	ACUMULATIVE EXCESSES CUT	ACUMULATIVE EXCESSES FILL
US 7								
20+736	21+580	16107	18	414	15639		15639	
21+580	22+360	16320	0	99	16205		31844	
22+360	22+680	5552	7	118	5419		37263	
HIGH STREET								
40+005	40+070	790	114	0	847		38110	
CARVER STREET								
34+010	34+085	662	0	2	660		38770	
ROSSITER STREET								
37+008	37+070	158	0	0	158		38928	
UNION STREET								
35+010	35+074	473	0	1	472		39400	
VT 73 EAST								
36+010	36+120	1839	0	2	1836		41236	
LOT A								
30+008	30+165	1877	0	8	1868		43104	
WEST SEMINARY STREET								
9+005	9+095	0	0	0	426		43530	
PROSPECT STREET								
8+005	8+060	230	0	1	229		43759	
PEARL STREET								
19+010	19+105	704	0	29	671		44430	
VT 73 WEST								
18+010	18+103	1135	0	4	1131		45561	
DRIVES		487	16	0	495		46056	
DRIVES		1538	2	0	1539		47595	
UTILITY PADS/EQUIP		27	0	0	27		47622	
REMOVAL OF CONC. WALLS/PADS/SIDEWALK (SEE NEXT SHEET)								
		240	240	0	119		47740	
REMOVAL OF EXIST. CONCRETE ROADBED (US 7)								
(SEE BELOW)		4045	4045	0	2002		49743	
TOTAL		52184	4441	678	49743			

EXIST. CONCRETE ROADBED		LENGTH m	WIDTH m	DEPTH m	VOLUME m3
20+736	21+480	744	5.5	0.381	1556
21+480	21+680	191	5.5	0.381	399
21+680	22+680	1000	5.5	0.381	2090
TOTAL (INCLUDE IN SOLID ROCK EXCAVATION TOTAL					4045

Rock Excavation Incl. Concrete 18 ft Wide By 8 inches Deep

Assume 7 inches Bituminous Concrete Pavement above Concrete

REMARKS

EARTH AND ROCK EXCAVATION	52184
SOLID ROCK EXCAVATION	4441
EARTH EXCAVATION	47743
PLANIMETERED FILL	678
LESS FACTORED SOLID ROCK (=0 since F<1.3R.)	0
LESS DISPLACEMENT OF ANY LARGE STRUCTURES	0
NET PLANIMETERED FILL	678
FACTOR	1.15
PLANIMETERED FILL INCLUDING FACTOR	780
MATERIALS AVAILABLE FOR FILLS	
EARTH EXCAVATION	47743
CHANNEL EXCAVATION	0
UNDERDRAIN EXCAVATION	906
STRUCTURE EXCAVATION	3190
TRENCH EXCAVATION OF EARTH FOR STONE FILL	405
TOTAL MATERIAL AVAILABLE FOR FILL	52244
TOTAL FILL INCLUDING FACTOR	780
TOTAL MATERIAL FOR FILL	52244
EARTH BORROW	500
EXCESS EXCAVATION	51464

PROJECT NAME: **BRANDON**

PROJECT NUMBER: **NH 019-3(496)**

FILE NAME: **zb008_6Earth.xls**

PROJECT LEADER: **C. BEAN**

DESIGNED BY: **M. SMITH**

EARTHWORK SHEET #1

PLOT DATE: 2/23/2017

DRAWN BY: **M. SMITH**

CHECKED BY: **K. HAYDEN**

SHEET 38 OF 601

EARTHWORKS

ISSUED FOR CONSTRUCTION

Metric

STATION km + m	DIST m	TOTAL EXCAVATION EARTH AND ROCK AREA m²	TOTAL EXCAVATION EARTH AND ROCK VOLUME m³	ROCK EXCAVATION AREA m²	ROCK EXCAVATION VOLUME m³	EMBANKMENT AREA m²	EMBANKMENT VOLUME m³		
UNION STREET									
35+010		11.88		0.00		0.00			
	10		118.8						
35+020		11.88		0.00		0.00			
	20		214.2				0.6		
35+040		9.54		0.00		0.06			
	4		38.2				0.1	CUT	473.2
35+044		9.54		0.00		0.00		ROCK	0.0
	11		58.9					R.FAC	0.495
35+055		1.16		0.00		0.00		FILL	0.7
	5		7.3					F.FAC	1.15
35+060		1.77		0.00		0.04		EX. C	472.4
	14		23.7						
35+074		1.62		0.00		0.00			
	15		12.2						
35+089	Limit of Work	0.00		0.00		0.00			
			473.2				0.7		
VT 73 EAST									
36+010		23.42		0.00		0.00			
	10		234.2						
36+020		23.42		0.00		0.00			
	20		477.7						
36+040		24.35		0.00		0.00			
	20		460.1						
36+060		21.66		0.00		0.00			
	20		386.7				1.2		
36+080		17.01		0.00		0.12		CUT	1838.6
	5		79.3				0.3	ROCK	0.00
36+085		14.72		0.00		0.00		R.FAC	0.5
	11		136.6					FILL	2
36+096		9.56		0.00		0.00		F.FAC	1
	4		32.6				0.2	EX. C	1836
36+100		7.84		0.00		0.08			
	8		31.4				0.3		
36+108		0.00		0.00		0.00			
	12								
36+120	Limit of Work	0.00		0.00		0.00			
			1838.6				2.0		
LOT A									
30+008		11.45		0.00		0.00			
	12		139.7						
30+020		11.45		0.00		0.00			
	20		206.6						
30+040		9.21		0.00		0.00			
	20		198.2				1.7		
30+060		10.61		0.00		0.17			
	20		258.6				1.9		
30+080		15.25		0.00		0.02		CUT	1876.9
	20		283.9				2.1	ROCK	0.00
30+100		13.14		0.00		0.19		R.FAC	0.5
	20		200.5				1.9	FILL	8
30+120		6.91		0.00		0.00		F.FAC	1
	20		256.8					EX. C	1868
30+140		18.77		0.00		0.00			
	20		284.3						
30+160		9.66		0.00		0.00			
	5		48.3						
30+165	Limit of Work	9.66		0.00		0.00			
			1876.9				7.6		
WEST SEMINARY STREET									
9+005		10.29		0.00		0.02			
	16		159.5				0.3		
9+020		10.29		0.00		0.02			
	17		174.9				1.0		
9+037		10.29		0.00		0.10			
	3		23.2				0.2		
9+040		5.20		0.00		0.00			
	1		5.1					CUT	427.3
9+041		4.97		0.00		0.00		ROCK	0.00
	11		27.3					R.FAC	0.5
9+052		0.00		0.00		0.00		FILL	1
	8		4.7					F.FAC	1
9+060		1.17		0.00		0.01		EX. C	426
	15		15.2				0.1		
9+075		1		0		0.00			
	20		17.0						
9+095		1		0		0.00			
	1		0						
9+096	Limit of Work	0		0		0			
			427				1		

STATION km + m	DIST m	TOTAL EXCAVATION EARTH AND ROCK AREA m²	TOTAL EXCAVATION EARTH AND ROCK VOLUME m³	ROCK EXCAVATION AREA m²	ROCK EXCAVATION VOLUME m³	EMBANKMENT AREA m²	EMBANKMENT VOLUME m³		
PROSPECT STREET									
8+005		7.42		0.00		0.00			
	16		115.0						
8+020		7.42		0.00		0.00			
	7		51.9				0.2		
8+027		7.42		0.00		0.05			
	4		27.4				0.2	CUT	230.3
8+031		6.27		0.00		0.05		ROCK	0.0
	9		34.6				0.4	R.FAC	0.495
8+040		1.41		0.00		0.03		FILL	0.7
	2		1.4					F.FAC	1.15
8+042		0.00		0.00		0.00		EX. C	229.5
	18								
8+060	Limit of Work	0.00		0.00		0.00			
			230.3				0.7		
PEARL STREET									
19+010		9.00		0.00		0.42			
	10		90.0				4.2		
19+020		9.00		0.00		0.42			
	20		166.1				5.4		
19+040		7.61		0.00		0.12			
	20		160.1				2.0		
19+060		8.40		0.00		0.08			
	20		181.5				2.4	CUT	704
19+080		9.75		0.00		0.16		ROCK	0.0
	2		19.5				1.0	R.FAC	0.495
19+082		9.75		0.00		0.85		FILL	29.035
	4		34.1				3.2	F.FAC	1.15
19+086		8.45		0.00		0.85		EX. C	670.7
	11		50.2				9.6		
19+097		0.47		0.00		0.85			
	3		1.4				1.3		
19+100		0.47		0.00		0.00			
	5		1.2						
19+105	Limit of Work	0.00		0.00		0.00			
			704.1				29.0		
VT 73 WEST									
18+010		22.94		0.00		0.00			
	10		229.4						
18+020		22.94		0.00		0.00			
	20		359.9				1.2		
18+040		13.05		0.00		0.12			
	20		235.9				2.1		
18+060		10.54		0.00		0.09			
	10		105.4				0.5	CUT	1135.2
18+070		10.54		0.00		0.00		ROCK	0.0
	10		87.7					R.FAC	0.495
18+080		6.99		0.00		0.00		FILL	3.8
	1		8.7					F.FAC	1.15
18+081		6.99		0.00		0.00		EX. C	1130.8
	12		82.1						
18+093		6.99		0.00		0.00			
	7		24.5						
18+100		1.04		0.00		0.00			
	3		1.6						
18+103	Limit of Work	0.00		0		0			
			1135.2				4		
DRIVES									
20+786.4	RT	1.03	4.5						
20+796.8	LT	2.86	43.5						
20+840.0	LT	1.88	97.0						
20+834.4	RT	3.26	35.8						
20+865.8	RT	5.53	58.1						
20+882.4	LT	2.20	11.0						
20+904.4	LT	2.31	8.2						
20+923.5	LT	0.82	3.5						
40+021.9	RT	4.98	43.8						
40+037.8	RT	5.53	18.2	2.33	7.7				
20+954.6	LT	2.62	13.5		8.1				
20+989.6	RT	2.83	12.2					CUT	487.3
21+001.2	LT	0.97	7.6					ROCK	15.790
21+013.0	LT	2.89	10.4					R.FAC	0.5
21+030.0	LT	1.40	28.0					FILL	0.00
21+039.2	RT	0.73	3.1					F.FAC	1.2
21+046.4	LT	2.27	7.7					EX. C	495
21+075.0	LT	1.77	6.0						
21+092.3	RT	1.85	11.5						
21+104.8	LT	3.03	13.6						
21+117.9	RT	1.12	5.4						
21+135.1	RT	2.32	8.4						
21+175.5	LT	0.49	2.8						
21+188.4	RT	1.11	4.0						
21+200.8	LT	0.60	2.2						
21+206	RT	2	27.4						
			487		15.8				

STATION km + m	DIST m	TOTAL EXCAVATION EARTH AND ROCK AREA m²	TOTAL EXCAVATION EARTH AND ROCK VOLUME m³	ROCK EXCAVATION AREA m²	ROCK EXCAVATION VOLUME m³	EMBANKMENT AREA m²	EMBANKMENT VOLUME m³		
DRIVES									
21+222.1	LT	0.67	2.1						
21+224.3	RT	0.81	2.7						
21+243.3	RT	0.36	1.9						
21+255.1	LT	0.92	3.3						
21+273.9	RT	1.08	3.9						
21+296.3	LT	0.29	1.0						
21+301.1	LT	0.44	1.8						
21+303.5	RT	2.07	11.2						
21+322.3	LT	0.77	2.8						
21+330.7	LT	1.60	6.6						
21+344.8	RT	0.62	2.2						
21+364.2	LT	0.89	3.2						
21+379.7	LT	0.24	0.9						
21+390.3	RT	1.59	4.1						
21+395.3	RT	1.61	5.3						
21+401.4	LT	0.31	1.0						
36+078.4	LT	1.18	9.3						
36+099.8	RT	1.65	5.9						
21+445.6	LT	0.66	2.6						
21+478.3	LT	2.42	14.5						
30+016.1	RT	5.36	19.3						
30+028.4	RT	2.31	7.6						
30+049.5	RT	1.84	6.6						
21+527.1	LT	1.34	9.4						
30+111.1	RT	3.41	13.6						
34+058.9	LT	2.16	8.4						
37+025.0	RT	0.59	2.7						
37+036.0	LT	0.35	1.7						
37+052.0	LT	0.55	2.8						
35+045.5	RT	4.18	141.3						
35+054.1	LT	0.69	2.8						
35+058.6	RT	0.13	1.2						
35+074.3	LT	0.28	0.9						
21+699.4	RT	4.38	28.5						
21+700.0	LT	2.12	22.3						
21+752.4	LT	1.21	7.3						
21+784.0	RT	7.55	24.9						
21+843.9	RT	2.25	9.0						
9+043.0	LT	2.21	23.6						
9+052.1	RT	1.49	34.3						
21+876.4	RT	1.18	14.2						
21+878.6	LT	6.54	78.5						
21+906.2	RT	1.06	13.3						
22+006.5	LT	4.36	15.7						
22+017.8	RT	2.17	7.8						
22+022.1	LT	3.55	17.0						
22+029.8	RT	2.27	9.1						
22+074.0	RT	0.67	2.4						
22+078.8	LT	1.67	8.0						
22+105.3	RT	0.73	2.6						
22+110.0	LT	5.69	68.3						
22+138.0	RT	1.11	5.3						
22+164.2	RT	2.61	31.3						
22+188.7	RT	3.73	37.3						
22+215.0	RT	2.42	10.2						
22+226.5	RT	2.74	32.9						
18+025.5	LT	0.89	3.1						
18+026.2	LT	13.66	82.0						
18+052.8	LT	0.81	3.9						
18+084.2	LT	0.86	6.2						
19+032.5	LT	3.08	23.4						
19+077.9	RT	4.32	18.1						
19+084.9	LT	4.09	32.7						
22+248.9	RT	4.11	49.3						
22+255.8	LT	2.52	11.1						
22+262.2	RT	3.07	12.9						
22+283.1	LT	2.43	8.7						
22+289.1	RT	3.70	44.4						
22+304.9	LT	2.75	9.9						
22+309.5	RT	5.21	46.9						
22+326.4	LT	2.67	9.6		1.5				
22+333.8	LT	2.31	8.3						
22+345.6	RT	4.11	16.6						
22+349.6	LT	1.61	5.8						
22+353.1	RT	3.94	14.2						
22+380.7	LT	0.15	0.8						
22+397.9	LT	0.50	2.1						
22+398.0	RT	5.93	22.9						
22+421.5	LT	2.24	8.2						
22+438.2	RT	13.91	66.8						
22+438.3	LT	1.54	7.4						
22+502.3	LT	2.88	26.2						
22+544.2	LT	2.70	24.6						
22+557.4	LT	2.19	13.1						
22+583.4	LT	1.43	22.9						
22+624.0	LT	2.66	31.9						
22+624.0	LT	2.66	31.9						
22+624	LT	3	32						
22+624	LT	3	31.9						
			1538.1		1.5		0.0		

SUMMARY AND BALANCES

STATION TO STATION km + m	km + m	TOT EXC. EARTH & ROCK m³	ROCK EXCAV m³	EMBANK m³	EXCESSES CUT	EXCESSES FILL	ACUMULATIVE EXCESSES CUT	ACUMULATIVE EXCESSES FILL
REMOVAL OF CONC. WALLS/PADS/SIDEWALK								
			AREA m²	DEPTH mm	VOLUME m3			
36+017	36+023	RT	18	200	3.5	PAD		
21+538	21+545	RT	31	200	6.2	PAD		
35+026	35+044	RT	29	200	5.8	SIDEWALK		
35+036	35+040	LT	11	200	2.2	DRIVE		
35+063	35+089	RT	48	200	9.5	SIDEWALK		
30+120	30+158	RT	157	200	31.3	SIDEWALK		
21+635	21+684	LT	84	200	16.8	SIDEWALK		
21+647	21+697	RT	155	200	30.9	SIDEWALK		
21+680	21+682	LT	9	200	1.7	PAD		
21+712	21+756	LT	131	200	26.2	SIDEWALK		
21+733	21+775	RT	204	200	40.8	SIDEWALK		
21+779	21+816	RT	219	200	43.7	SIDEWALK		
21+840	21+850	RT			7.7	APPROX. LOCATION OF FILLED VOID		
21+917	21+942	RT	5	830	4.1	WALL		
18+025	18+043	LT	45	200	9.0	SIDEWALK		
TOTAL (INCLUDE IN SOLID ROCK EXCAVATION TOTAL					239.5			

STATION km + m	DIST m	TOTAL EXCAVATION EARTH AND ROCK AREA m²	TOTAL EXCAVATION EARTH AND ROCK VOLUME m³	ROCK EXCAVATION AREA m²	ROCK EXCAVATION VOLUME m³	EMBANKMENT AREA m²	EMBANKMENT VOLUME m³		
LOT 1									
1+000		0.00		0.00		0.00			
	20		0.0						
1+020		0.00		0.00		0.00			
	20		0.0						
1+040		0.00		0.00		0.00			
	20		0.0						
1+060		0.00		0.00		0.00			
	20		0.0						
1+080		0.00		0.00		0.00			
	20		0.0						
1+100		0.00		0.00		0.00			
	20		0.0						
1+120		0.00		0.00		0.00			
	20		0.0						
1+140		0.00		0.00		0.00			
	20		0.0						
1+160		0.00		0.00		0.00			
	20		0.0						
1+180		0.00		0.00		0.00			
	20		0.0						
1+200		0.00		0.00		0.00			
	20		0.0						
1+220		0.00		0.00		0.00			
	20		0.0						
1+240		0.00		0.00		0.00			
	20		0.0						
1+260		0.00		0.00		0.00			
	20		0.0						
1+280		0.00		0.00		0.00			
	20		0.0						
1+300		0.00		0.00		0.00			
	20		0.0						
1+320		0.00		0.00		0.00			
	20		0.0						
1+340		0.00		0.00		0.00			
	20		0.0						
1+360		0.00		0.00		0.00			
	20		0.0						
1+380		0.00		0.00		0.00			
	20		0.0						
1+400		0.00		0.00		0.00			
	20		0.0						
1+420		0.00		0.00		0.00			
	20		0.0						
1+440		0.00		0.00		0.00			
	20		0.0						
1+460		0.00		0.00		0.00			
	20		0.0						
1+480		0.00		0.00		0.00			
	20		0.0						
1+500		0.00		0.00		0.00			
	20		0.0						
1+520		0.00		0.00		0.00			
	20		0.0						
1+540		0.00		0.00		0.00			
	20		0.0						
1+560		0.00		0.00		0.00			
	20		0.0						
1+580		0.00		0.00		0.00			
	20		0.0						
1+600		0.00		0.00		0.00			
			0.0						

REMARKS

EARTH AND ROCK EXCAVATION
SOLID ROCK EXCAVATION
EARTH EXCAVATION

PLANIMETERED FILL
LESS FACTORED SOLID ROCK
LESS DISPLACEMENT OF ANY LARGE STRUCTURES
NET PLANIMETERED FILL
FACTOR
PLANIMETERED FILL INCLUDING FACTOR

MATERIALS AVAILABLE FOR FILLS
EARTH EXCAVATION
CHANNEL EXCAVATION
UNDERDRAIN EXCAVATION
STRUCTURE EXCAVATION

TOTAL MATERIAL AVAILABLE FOR FILL

TOTAL FILL INCLUDING FACTOR
TOTAL MATERIAL FOR FILL
BORROW
EXCESS EXCAVATION

PROJECT NAME: **BRANDON**
PROJECT NUMBER: **NH 019-3(496)**

FILE NAME: **zb008_6Earth.xls**
PROJECT LEADER: **C. BEAN**
DESIGNED BY: **M. SMITH**
EARTHWORK SHEET #2

PLOT DATE: 2/23/2017
DRAWN BY: **M. SMITH**
CHECKED BY: **K. HAYDEN**
SHEET 39 OF 601

ISSUED FOR CONSTRUCTION

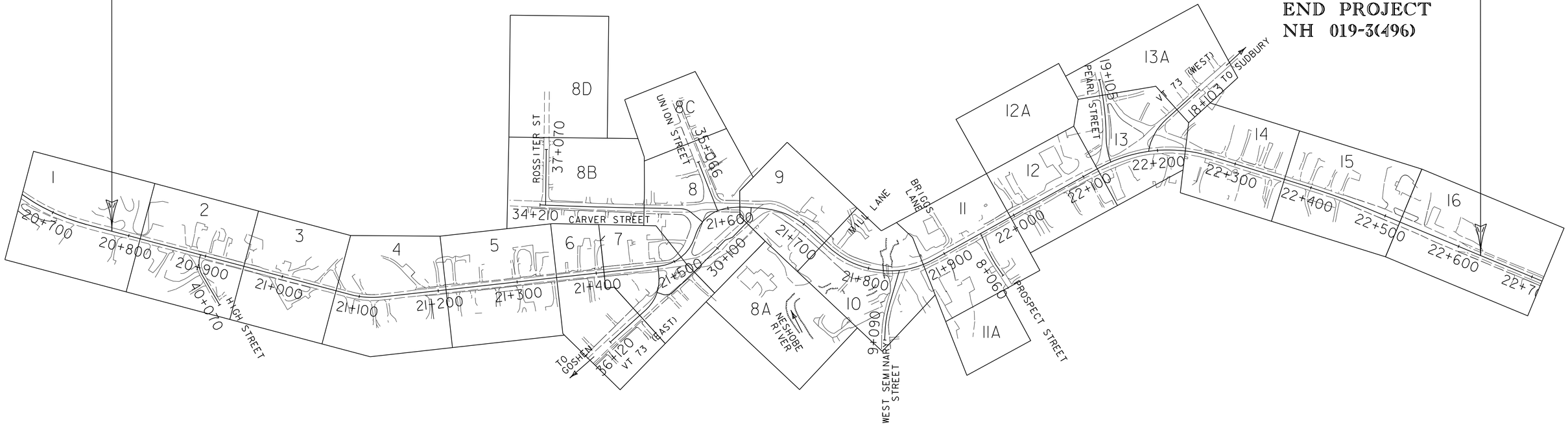
VAOT Metric

VT STATE PLANE GRID

N

20 + 778.000
BEGIN PROJECT
NH 019-3(496)

22 + 630.000
END PROJECT
NH 019-3(496)



NOT TO SCALE

PLAN LAYOUT KEY

PROJECT NAME:	BRANDON
PROJECT NUMBER:	NH 019-3(496)

FILE NAME: zb008s6-index.dgn		PLOT DATE:	2/23/2017
PROJECT LEADER:	C. BEAN	DRAWN BY:	M. HALEY
DESIGNED BY:	M. HALEY	CHECKED BY:	D. MUNRO
		SHEET	40 OF 601

CLD 02-0448 MODEL: 2

RIGHT - OF - WAY DETAIL SHEET

ISSUED FOR CONSTRUCTION

Metric

AREAS ARE IN SQUARE METERS UNLESS OTHERWISE NOTED

TABLE OF PROPERTY ACQUISITION

PARCEL NO.	PROPERTY OWNER	SHEET NO.	BEGINNING STATION	ENDING STATION	TAKE	REMAINDER	RIGHT			RECORDING DATA					REMARKS
					AREA ±	AREA ±	TYPE	(T)/(P)	AREA ±	TITLE	DATE	TOWN / CITY	BOOK	PAGE	
547	BRANDON AMERICAN	31	20+728.3 RT	20+735.6 RT			D & C	(T)							SEWER IF APPLICABLE
	LEGION POST NO. 55, INC.		20+728.3 RT	20+735.6 RT			INSTALL	(T)	38						PDF; 409 SF
6001	BRANDON FIRE DISTRICT NO. 1	31	20+753.1 LT	20+791.1 LT			INSTALL	(T)	38						PDF; 409 SF
			20+757.2 LT	20+805.3 LT			DETOUR	(T)	46						495 SF
			20+760.0 LT	20+805.3 LT			D & C	(T)							WATER & SEWER IF APPLICABLE
			20+787.7 LT	20+797.7 LT			UTIL	(P)	18						WATER; 194 SF
			20+796.8 LT				DRIVE	(T)							10.5m (34.4') PAVED MM 0335
			20+802.1 LT	20+805.3 LT			INSTALL	(T)	3						PDF; 32 SF
6002	BOSTON, MICHAEL T.	31-32	20+735.6 RT	20+739.2 RT			INSTALL	(T)	5						PDF; 54 SF
			20+780.0 RT	20+810.0 RT			D & C	(T)							SEWER IF APPLICABLE
			20+820.770 RT	20+820.930 RT			REMOVE & REPLACE	(T)							IP
6003	BRANDON FIRE DISTRICT NO. 1	31-32	20+819.3 RT	20+856.2 RT			UTIL	(P)	183						AERIAL; 1970 SF
			20+820.770 RT	20+820.930 RT			REMOVE & REPLACE	(T)							IP
			20+820.9 RT	20+856.2 RT			D & C	(T)							WATER & SEWER IF APPLICABLE
			20+821.2 RT	20+829.2 RT			INSTALL	(T)	5						PDF; 54 SF
			20+832.0 RT	20+850.5 RT			DETOUR	(T)	3						32 SF
			20+834.4 RT				DRIVE	(T)							10.9m (35.8') PAVED MM 0337
			20+853.0 RT	20+855.4 RT			CULVERT	(P)	3						32 SF
6004	MUNGER, CHARLES F. & JENNIFER J.	31-32	20+805.3 LT	20+821.9 LT			INSTALL	(T)	16						PDF; 172 SF
			20+805.3 LT	20+878.7 LT			D & C	(T)							WATER & SEWER IF APPLICABLE
			20+811.3 LT				REMOVE	(T)							GUY WIRES
			20+865.2 LT	20+875.0 LT			UTIL	(P)	82						AERIAL & POLE; 883 SF
			20+867.1 LT	20+868.2 LT			INSTALL & MAIN.	(P)							GUY WIRES & ANCHOR
			20+872.3 LT	20+878.4 LT			CONST	(T)	67						INCL PDF; 721 SF
			20+873.8 LT	20+878.7 LT			CUL., DIT. & DR.	(P)	110						1184 SF
6005	HEITMANN, IAN H. & DARCIE	32	20+878.7 LT	20+880.2 LT			CUL., DIT. & DR.	(P)	16						172 SF
			20+878.7 LT	20+902.8 LT			D & C	(T)							WATER & SEWER IF APPLICABLE
			20+879.3 LT	20+883.2 LT			UTIL	(P)	31						SEWER; 334 SF
6006	MIDDLEBURY NATIONAL CORPORATION	32	20+854.3 RT	HIGH 40+030.8 RT			UTIL	(P)	228						AERIAL, POLE & GUY WIRES; 2454 SF
			20+854.8 RT	20+856.2 RT			CULVERT	(P)	1						11 SF
			20+865.8 RT				DRIVE	(T)							10.5m (34.4') PAVED MM 0339
			20+871.0 RT	HIGH 40+030.8 RT			CONST	(T)	184						INCL. PDF; 1981 SF
			HIGH 40+010.0 RT	HIGH 40+030.8 RT			SLOPE	(T)	122						1313 SF
			HIGH 40+011.1 RT	HIGH 40+028.0 RT			UTIL	(P)	97						SEWER; 1044 SF
			HIGH 40+013.9 RT	HIGH 40+025.4 RT			INSTALL & MAIN.	(P)	17						DI INCL PAVED GUTTER,
															EC & DRIVE APRON; 183 SF
6007	FEDERAL HOME LOAN MORTGAGE CORPORATION	32	HIGH 40+030.8 RT	HIGH 40+031.5 RT			INSTALL & MAIN.	(P)							GUY WIRES & ANCHOR
			HIGH 40+030.8 RT	HIGH 40+035.1 RT			INSTALL	(T)	5						PDF; 54 SF
			HIGH 40+030.8 RT	HIGH 40+035.7 RT			SLOPE	(T)	2						22 SF
			HIGH 40+030.8 RT	HIGH 40+060.0 RT			D & C	(T)							WATER & SEWER IF APPLICABLE
			HIGH 40+037.8 RT				DRIVE	(T)							3.6m (11.8') PAVED; INCL TPZ
															ALONG DRIVE

TABLE OF REVISIONS

REVISION NO.	SHEET NO.	DESCRIPTION	DATE

PLAN LEGEND

- EXISTING RIGHT-OF-WAY
- TAKING WITH ACCESS
- TAKING WITHOUT ACCESS
- CLEAR ZONE (CZ)
- PROPERTY LINE (P / L)
- TOE OF SLOPE
- TOP OF CUT
- SLOPE RIGHT (SR (P))
- CONSTRUCTION RIGHT (CONST. (T))
- PROJECT DEMARCATION FENCE (PDF)

(P)	-PERMANENT
(T)	-TEMPORARY
C&T	-CLEARING & TRIMMING RIGHT
CUL.	-CULVERT RIGHT
D&C	-DISCONNECT & CONNECT
DIT.	-DITCHING RIGHT
DR.	-DRAINAGE RIGHT
DRIVE	-DRIVE RIGHT
EC	-EROSION CONTROL
SLOPE	-SLOPE RIGHT
TPZ	-TREE PROTECTION ZONE FENCE
UTIL	-UTILITY EASEMENT

PROJECT NAME: **BRANDON**
PROJECT NUMBER: **NH 019-3(496)**

FILE NAME: **zb008ROW6DetSht.xls**
PROJECT LEADER: **C. BEAN**
DESIGNED BY: **M. HALEY**
R.O.W. DETAIL SHEET #1

PLOT DATE: **11/3/2016**
DRAWN BY: **S. GOODWIN**
CHECKED BY: **D. MUNRO**
SHEET 15 OF 185

RIGHT - OF - WAY DETAIL SHEET

ISSUED FOR CONSTRUCTION

Metric

AREAS ARE IN SQUARE METERS UNLESS OTHERWISE NOTED

TABLE OF PROPERTY ACQUISITION

PARCEL NO.	PROPERTY OWNER	SHEET NO.	BEGINNING STATION	ENDING STATION	TAKE	REMAINDER	RIGHT			RECORDING DATA					REMARKS
					AREA ±	AREA ±	TYPE	(T)(P)	AREA ±	TITLE	DATE	TOWN / CITY	BOOK	PAGE	
6008	BURNETT, LINDA R.	32-33	20+900.9 RT	20+905.5 RT			SLOPE	(T)	10						108 SF
	TRUSTEE U/T/A DATED JUNE 5, 2013		20+900.9 RT	HIGH 40+065.6 LT			D & C	(T)							WATER & SEWER IF APPLICABLE
			20+902.4 RT				REMOVE	(T)							1 TREE
			20+903.8 RT				INSTALL	(T)							1 TREE
			20+909.0 RT				REMOVE	(T)							1 TREE
			20+915.1 RT				INSTALL	(T)							1 TREE
			20+917.8 RT	20+954.3 RT			SLOPE	(T)	4						43 SF
			20+929.3 RT				C&T	(T)							PRUNE TO INSTALL SHEETING
			20+956.7 RT				C&T	(T)							PRUNE TO INSTALL SHEETING
			20+960.3 RT	20+964.0 RT			SLOPE	(T)	1						11 SF
			20+963.3 RT				C&T	(T)							PRUNE TO INSTALL SHEETING
			20+963.759 RT	20+964.028 RT			REMOVE & REPLACE	(T)							IP
			HIGH 40+034.0 LT	20+963.8 RT			INSTALL	(T)	97						PDF & TPZ; 1044 SF
			HIGH 40+036.3 LT	HIGH 40+043.8 LT			INSTALL	(T)	5						PDF; 54 SF
			HIGH 40+044.9 LT				WALK	(T)							BITUMINOUS CONCRETE WALKWAY
			HIGH 40+046.0 LT	HIGH 40+051.0 LT			INSTALL	(T)	3						PDF; 32 SF
			HIGH 40+052.8 LT	HIGH 40+060.6 LT			INSTALL	(T)	4						PDF; 43 SF
6009	BURKE, THOMAS AMBROSE &	32-33	20+963.3 RT				C&T	(T)							PRUNE TO INSTALL SHEETING
	ELLS, CAROLINE BURKE		20+963.4 RT	20+985.5 RT			INSTALL	(T)	26						PDF & TPZ; 280 SF
			20+963.759 RT	20+964.028 RT			REMOVE & REPLACE	(T)							IP
			20+963.8 RT	20+984.5 RT			SLOPE	(T)	27						291 SF
			20+970.0 RT				INSTALL	(T)							1 TREE
			20+980.5 RT				INSTALL	(T)							1 TREE
			20+981.961 RT	20+982.817 RT			REMOVE & REPLACE	(T)							IP
6010	BONAVITA, FRANK	32	20+902.8 LT	20+919.3 LT			D & C	(T)							WATER & SEWER IF APPLICABLE
			20+919.3 LT				INSTALL & MAIN.	(P)							GUY WIRES & (2) ANCHORS
6011	ALBERICO, FRANCIS A. & AUDREY A.	32	20+919.3 LT	20+939.2 LT			D & C	(T)							WATER & SEWER IF APPLICABLE
			20+919.3 LT	20+919.6 LT			INSTALL & MAIN.	(P)							GUY WIRES & (2) ANCHORS
6012	LAMOUREUX, RAYMOND J. & SHIRLEY A.	32-33	20+939.2 LT	20+953.0 LT			D & C	(T)							WATER & SEWER IF APPLICABLE
	TRUSTEES OF THE LAMOUREX FRANKLIN														
	STREET TRUST, DATED MARCH 14, 2012														
6013	NESHOBE WOOD PRODUCTS, INC.	33	20+953.0 LT	20+972.7 LT			D & C	(T)							WATER & SEWER IF APPLICABLE
6014	GOODSPEED, JUDITH	33	20+972.7 LT	21+008.7 LT			D & C	(T)							WATER & SEWER IF APPLICABLE
			21+002.6 LT	21+007.0 LT			CONST	(T)	18						INCL PDF; 194 SF
			21+005.5 LT	21+006.8 LT			CUL., DIT. & DR.	(P)	2						22 SF
6015	SHERWOOD, STANLEY R. &	33	21+006.2 LT	21+026.1 LT			CONST	(T)	73						INCL PDF& EC; 786 SF
	WALLACE-SENFT, TAMARA J.		21+006.6 LT	21+038.4 LT			DRAINAGE SYSTEM	(P)	205						INCL CUL., DIT., DR. &
															STORM. TREAT. STRUCT.; 2207 SF
			21+006.8 LT	21+023.5 LT			CONST	(T)	40						INCL PDF & EC; 431 SF
			21+008.7 LT	21+036.9 LT			D & C	(T)							WATER & SEWER IF APPLICABLE
			21+013.0 LT				DRIVE	(T)							4.2m (13.8') GRAVEL MM 0349
			21+022.8 LT	21+039.4 LT			SLOPE	(P)	60						646 SF
			21+025.9 LT	21+031.2 LT			UTIL	(P)	20						SEWER; 215 SF
			21+034.3 LT	21+040.0 LT			CONST	(T)	5						INCL PDF; 54 SF

TABLE OF REVISIONS

REVISION NO.	SHEET NO.	DESCRIPTION	DATE

PLAN LEGEND

- EXISTING RIGHT-OF-WAY
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- TAKING WITHOUT ACCESS
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(P) -PERMANENT
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DR. -DRAINAGE RIGHT
DRIVE -DRIVE RIGHT
EC -EROSION CONTROL
SLOPE -SLOPE RIGHT
TPZ -TREE PROTECTION ZONE FENCE
UTIL -UTILITY EASEMENT

PROJECT NAME: **BRANDON**
PROJECT NUMBER: **NH 019-3(496)**

FILE NAME: zb008ROW6DetSht.xls
PROJECT LEADER: C. BEAN
DESIGNED BY: M. HALEY
R.O.W. DETAIL SHEET #2

PLOT DATE: 8/4/2016
DRAWN BY: S. GOODWIN
CHECKED BY: D. MUNRO
SHEET 16 OF 185

RIGHT - OF - WAY DETAIL SHEET

ISSUED FOR CONSTRUCTION

Metric

AREAS ARE IN SQUARE METERS UNLESS OTHERWISE NOTED

TABLE OF PROPERTY ACQUISITION

PARCEL NO.	PROPERTY OWNER	SHEET NO.	BEGINNING STATION	ENDING STATION	TAKE	REMAINDER	RIGHT			RECORDING DATA					REMARKS
					AREA ±	AREA ±	TYPE	(T)/(P)	AREA ±	TITLE	DATE	TOWN / CITY	BOOK	PAGE	
6016	McRAE, ROBERT J. & HEATHER L.	33	20+981.961 RT	20+982.817 RT			REMOVE & REPLACE	(T)							IP
			20+982.0 RT	20+989.6 RT			SLOPE	(T)	14						151 SF
			20+982.0 RT	21+042.7 RT			D & C	(T)							WATER & SEWER IF APPLICABLE
			20+984.6 RT				INSTALL & MAIN.	(P)							RETAINING WALL
			20+985.0 RT	20+989.4 RT			INSTALL	(T)	4						PDF; 43 SF
			20+988.4 RT	20+991.2 RT			INSTALL	(T)							VERTICAL GRANITE CURB ALONG DRIVE
			20+989.6 RT				DRIVE	(T)							5.4m (17.7') PAVED MM 0347
			20+993.2 RT	20+997.2 RT			SLOPE	(T)	2						22 SF
			20+994.6 RT	21+034.8 RT			INSTALL	(T)	39						PDF; 420 SF
			21+002.3 RT	21+037.1 RT			SLOPE	(T)	26						280 SF
			21+039.2 RT				DRIVE	(T)							4.2m (13.8') PAVED MM 0350
			21+040.2 RT	21+042.4 RT			INSTALL	(T)	2						PDF; 22 SF
			21+040.5 RT	21+042.7 RT			SLOPE	(T)	2						22 SF
6017	DRZEWIANOWSKI, ERIC & GENEVIEVE	33-34	21+036.9 LT	21+039.3 LT			REMOVE	(T)							WOVEN WIRE FENCE
			21+036.9 LT	21+041.3 LT			CUL.	(P)	5						54 SF
			21+036.9 LT	21+043.8 LT			SLOPE	(P)	15						161 SF
			21+036.9 LT	21+088.0 LT			D & C	(T)							WATER & SEWER IF APPLICABLE
			21+039.4 LT	21+045.2 LT			CONST	(T)	7						INCL PDF; 75 SF
			21+046.4 LT				DRIVE	(T)							4.2m (13.8') PAVED MM 0351
6018	BELL, ROBERT T. & LUCINDA A.	33-34	21+042.2 RT	21+081.1 RT			CONST	(T)	60						INCL PDF & EC; 646 SF
			21+042.4 RT	21+080.7 RT			SLOPE	(P)	222						2390 SF
			21+042.7 RT	21+076.5 RT			SIDEWALK	(P)	4						CONCRETE SIDEWALK; 43 SF
			21+052.2 RT	21+068.7 RT			INSTALL	(T)							8 SHRUBS
			21+058.2 RT	21+073.9 RT			CUL. & DIT.	(P)	67						721 SF
			21+079.643 RT	21+079.643 RT			REMOVE & REPLACE	(T)							BND
6019	BELL, ROBERT T. & LUCINDA A.	34	21+079.6 RT	21+089.8 RT			SLOPE	(P)	37						398 SF
			21+079.6 RT	21+103.8 RT			D & C	(T)							WATER & SEWER IF APPLICABLE
			21+079.643 RT	21+079.643 RT			REMOVE & REPLACE	(T)							BND
			21+080.7 RT	21+087.2 RT			INSTALL	(T)	15						PDF; 161 SF
			21+083.0 RT				REMOVE	(T)							GUY WIRES
			21+092.3 RT				DRIVE	(T)							5.1m (16.7') GRAVEL MM 0353
			21+103.1 RT				WALK	(T)							CONCRETE WALKWAY
6020	KENT, ROBN RODDA	34	21+088.0 LT	21+119.2 LT			D & C	(T)							WATER & SEWER IF APPLICABLE
			21+089.8 LT				INSTALL & MAIN.	(P)							GUY WIRES & (2) ANCHORS
			21+104.8 LT				DRIVE	(T)							4.5m (14.8') PAVED MM 0354
			21+116.7 LT	21+119.2 LT			INSTALL	(T)	1						PDF; 11 SF
			21+119.098 LT	21+119.231 LT			REMOVE & REPLACE	(T)							IP
6021	MILOT, NORMAN E. & GINETTE	34	21+119.0 LT	21+171.1 LT			INSTALL	(T)	27						PDF; 291 SF
			21+119.098 LT	21+119.231 LT			REMOVE & REPLACE	(T)							IP
			21+119.2 LT	21+173.0 LT			SLOPE	(T)	15						161 SF
			21+119.2 LT	21+185.7 LT			D & C	(T)							WATER & SEWER IF APPLICABLE
			21+127.4 LT	21+135.1 LT			UTIL	(P)	21						AERIAL & POLE; 226 SF
			21+175.5 LT				DRIVE	(T)							5.8m (19.0') PAVED MM 0359
			21+178.0 LT	21+185.7 LT			INSTALL	(T)	7						PDF; 75 SF
			21+185.592 LT	21+185.737 LT			REMOVE & REPLACE	(T)							IP
6022	FARNSWORTH, FRANCIS & DORIS	34	21+103.8 RT	21+120.2 RT			D & C	(T)							WATER & SEWER IF APPLICABLE
			21+105.2 RT				REMOVE	(T)							GUY WIRES
			21+108.3 RT				C&T	(T)							PRUNE TREE 7' ABOVE SIDEWALK
			21+111.0 RT				C&T	(T)							PRUNE TREE 7' ABOVE SIDEWALK
6023	LEGAULT, NORMAN A. &	34	21+120.2 RT	21+132.6 RT			D & C	(T)							WATER & SEWER IF APPLICABLE
	ETHIER, RALPH R.		21+121.7 RT	21+122.6 RT			INSTALL & MAIN.	(P)							GUY WIRES & (2) ANCHORS
			21+122.3 RT	21+132.6 RT			UTIL	(P)	3						AERIAL; 32 SF
			21+127.6 RT				WALK	(T)							BITUMINOUS CONCRETE WALKWAY

TABLE OF REVISIONS

REVISION NO.	SHEET NO.	DESCRIPTION	DATE

PLAN LEGEND

- EXISTING RIGHT-OF-WAY
- TAKING WITH ACCESS
- TAKING WITHOUT ACCESS
- CLEAR ZONE (CZ)
- PROPERTY LINE (P / L)
- TOE OF SLOPE
- TOP OF CUT
- SLOPE RIGHT (SR (P))
- CONSTRUCTION RIGHT (CONST. (T))
- PROJECT DEMARCATION FENCE (PDF ——— PDF)

(P) -PERMANENT
(T) -TEMPORARY
C&T -CLEARING & TRIMMING RIGHT
CUL. -CULVERT RIGHT
D&C -DISCONNECT & CONNECT
DIT. -DITCHING RIGHT
DR. -DRAINAGE RIGHT
DRIVE -DRIVE RIGHT
EC -EROSION CONTROL
SLOPE -SLOPE RIGHT
TPZ -TREE PROTECTION ZONE FENCE
UTIL -UTILITY EASEMENT

PROJECT NAME: **BRANDON**
PROJECT NUMBER: **NH 019-3(496)**

FILE NAME: **zb008ROW6DetSht.xls**
PROJECT LEADER: **C. BEAN**
DESIGNED BY: **M. HALEY**
R.O.W. DETAIL SHEET #3

PLOT DATE: **10/6/2016**
DRAWN BY: **S. GOODWIN**
CHECKED BY: **D. MUNRO**
SHEET 17 OF 185

RIGHT - OF - WAY DETAIL SHEET

ISSUED FOR CONSTRUCTION

Metric

AREAS ARE IN SQUARE METERS UNLESS OTHERWISE NOTED

TABLE OF PROPERTY ACQUISITION

PARCEL NO.	PROPERTY OWNER	SHEET NO.	BEGINNING STATION	ENDING STATION	TAKE	REMAINDER	RIGHT			RECORDING DATA					REMARKS
					AREA ±	AREA ±	TYPE	(T)/(P)	AREA ±	TITLE	DATE	TOWN / CITY	BOOK	PAGE	
6024	FORREST, DAVID A. & RHODA P.	34	21+132.6 RT	21+164.4 RT			D & C	(T)							WATER & SEWER IF APPLICABLE
			21+132.6 RT	21+164.4 RT			UTIL	(P)	14						AERIAL; 151 SF
			21+133.3 RT	21+133.4 RT			REMOVE & RESET	(T)							WOOD FENCE
			21+135.1 RT				DRIVE	(T)							3.6m (11.8') PAVED MM 0356
			21+137.7 RT	21+142.4 RT			INSTALL	(T)	2						PDF; 22 SF
			21+143.7 RT				WALK	(T)							BRICK WALKWAY
			21+144.2 RT	21+164.4 RT			INSTALL	(T)	16						PDF; 172 SF
6025	GEARWAR, JANICE W.	34	21+164.4 RT	21+177.1 RT			INSTALL	(T)	12						PDF; 129 SF
			21+164.4 RT	21+190.2 RT			UTIL	(P)	15						AERIAL; 161 SF
			21+164.4 RT	21+190.2 RT			D & C	(T)							WATER & SEWER IF APPLICABLE
			21+181.0 RT				WALK	(T)							BITUMINOUS CONCRETE WALKWAY
			21+182.1 RT	21+186.4 RT			INSTALL	(T)	3						PDF; 32 SF
			21+182.9 RT	21+187.0 RT			SLOPE	(T)	1						11 SF
			21+188.4 RT				DRIVE	(T)							3.6m (11.8') GRAVEL MM 0359
6026	WILLIAMS, HELEN L.	34	21+185.1 LT	21+191.2 LT			INSTALL	(T)	6						PDF; 65 SF
			21+185.592 LT	21+185.737 LT			REMOVE & REPLACE	(T)							IP
			21+185.7 LT	21+202.6 LT			D & C	(T)							WATER & SEWER IF APPLICABLE
			21+192.4 LT				WALK	(T)							BITUMINOUS CONCRETE WALKWAY
			21+193.7 LT	21+198.7 LT			INSTALL	(T)	5						PDF; 54 SF
			21+200.8 LT				DRIVE	(T)							3.6m (11.8') PAVED MM 0360
6027	STANLEY, GARY C.	34-35	21+190.2 RT	21+226.5 RT			D & C	(T)							WATER & SEWER IF APPLICABLE
			21+190.2 RT	21+226.5 RT			UTIL	(P)	24						AERIAL; 258 SF
			21+190.5 RT	21+211.9 RT			DRIVE	(T)							16.0m (52.5') PAVED MM 0360
			21+191.1 RT	21+208.0 RT			INSTALL & MAIN.	(P)	72						DI & CUL.; 775 SF
			21+213.0 RT	21+216.8 RT			INSTALL	(T)	1						PDF; 11 SF
			21+218.6 RT				WALK	(T)							BITUMINOUS CONCRETE WALKWAY
			21+219.8 RT	21+222.2 RT			INSTALL	(T)	2						PDF; 22 SF
			21+224.3 RT				DRIVE	(T)							3.6m (11.8') PAVED MM 0362
			21+226.509 RT	21+226.510 RT			REMOVE & REPLACE	(T)							BND
6028	PARKER, CAROL B.	34-35	21+202.6 LT	21+222.2 LT			D & C	(T)							WATER & SEWER IF APPLICABLE
			21+203.5 LT	21+217.6 LT			INSTALL	(T)	14						PDF; 151 SF
			21+218.9 LT				WALK	(T)							CONCRETE WALKWAY
			21+222.1 LT				DRIVE	(T)							3.6m (11.8') GRAVEL MM 0362
															IN COMMON PARCEL 6029
6029	KETCHAM, MARY D.	35	21+222.1 LT				DRIVE	(T)							3.6m (11.8') GRAVEL MM 0362
															IN COMMON PARCEL 6028
			21+222.2 LT	21+251.7 LT			D & C	(T)							WATER & SEWER IF APPLICABLE
			21+224.4 LT	21+240.7 LT			INSTALL	(T)	14						PDF; 151 SF
			21+242.3 LT				WALK	(T)							BITUMINOUS CONCRETE WALKWAY
			21+243.9 LT	21+251.7 LT			INSTALL	(T)	6						PDF; 65 SF
6030	LITTLE, BRIAN G. & TRINA L.	35	21+226.5 RT	21+246.4 RT			D & C	(T)							WATER & SEWER IF APPLICABLE
			21+226.5 RT	21+246.4 RT			UTIL	(P)	15						AERIAL; 161 SF
			21+226.509 RT	21+226.510 RT			REMOVE & REPLACE	(T)							BND
			21+226.8 RT	21+232.0 RT			INSTALL	(T)	5						PDF; 54 SF
			21+233.7 RT				WALK	(T)							CONCRETE WALKWAY
			21+235.3 RT	21+240.4 RT			INSTALL	(T)	5						PDF; 54 SF
			21+243.3 RT				DRIVE	(T)							5.4m (17.7') PAVED MM 0363
															IN COMMON PARCEL 6031
			21+246.412 RT	21+246.412 RT			REMOVE & REPLACE	(T)							BND

TABLE OF REVISIONS

REVISION NO.	SHEET NO.	DESCRIPTION	DATE

PLAN LEGEND

EXISTING RIGHT-OF-WAY		TOE OF SLOPE	
TAKING WITH ACCESS		TOP OF CUT	
TAKING WITHOUT ACCESS	SR (P)	SLOPE RIGHT	
CLEAR ZONE	CONST. (T)	CONSTRUCTION RIGHT	
PROPERTY LINE	PDF — PDF	PROJECT DEMARCATION FENCE	

(P) -PERMANENT
(T) -TEMPORARY
C&T -CLEARING & TRIMMING RIGHT
CUL. -CULVERT RIGHT
D&C -DISCONNECT & CONNECT
DIT. -DITCHING RIGHT
DR. -DRAINAGE RIGHT
DRIVE -DRIVE RIGHT
EC -EROSION CONTROL
SLOPE -SLOPE RIGHT
TPZ -TREE PROTECTION ZONE FENCE
UTIL -UTILITY EASEMENT

PROJECT NAME: **BRANDON**
PROJECT NUMBER: **NH 019-3(496)**

FILE NAME: zb008ROW6DetSht.xls
PROJECT LEADER: C. BEAN
DESIGNED BY: M. HALEY
R.O.W. DETAIL SHEET #4

PLOT DATE: 11/3/2016
DRAWN BY: S. GOODWIN
CHECKED BY: D. MUNRO
SHEET 18 OF 185

RIGHT - OF - WAY DETAIL SHEET

ISSUED FOR CONSTRUCTION

Metric

AREAS ARE IN SQUARE METERS UNLESS OTHERWISE NOTED

TABLE OF PROPERTY ACQUISITION

PARCEL NO.	PROPERTY OWNER	SHEET NO.	BEGINNING STATION	ENDING STATION	TAKE	REMAINDER	RIGHT			RECORDING DATA					REMARKS
					AREA ±	AREA ±	TYPE	(T)/(P)	AREA ±	TITLE	DATE	TOWN / CITY	BOOK	PAGE	
6031	LITTLE, BRIAN G. & TRINA L.	35	21+243.3 RT				DRIVE	(T)							5.4m (17.7') PAVED MM 0363
															IN COMMON PARCEL 6030
			21+246.4 RT	21+259.2 RT			D & C	(T)							WATER & SEWER IF APPLICABLE
			21+246.4 RT	21+259.2 RT			UTIL	(P)	10						AERIAL; 108 SF
			21+246.412 RT	21+246.412 RT			REMOVE & REPLACE	(T)							BND
			21+246.5 RT	21+250.4 RT			INSTALL	(T)	1						PDF; 11 SF
			21+251.5 RT				WALK	(T)							CONCRETE WALKWAY
			21+252.6 RT	21+257.9 RT			INSTALL	(T)	1						PDF; 11 SF
			21+258.6 RT				WALK	(T)							CONCRETE WALKWAY
6032	CORLISS, JILL R.	35	21+259.2 RT	21+276.0 RT			D & C	(T)							WATER & SEWER IF APPLICABLE
			21+259.2 RT	21+276.0 RT			UTIL	(P)	13						AERIAL; 140 SF
			21+259.5 RT	21+262.7 RT			INSTALL	(T)	3						PDF; 32 SF
			21+263.7 RT				WALK	(T)							CONCRETE WALKWAY
			21+264.6 RT	21+271.9 RT			INSTALL	(T)	7						PDF; 75 SF
			21+273.9 RT				DRIVE	(T)							3.6m (11.8') PAVED MM 0365
6033	ALBERICO, FRANCIS &	35	21+251.7 LT	21+282.1 LT			D & C	(T)							WATER & SEWER IF APPLICABLE
	ALBERICO, DON FRANCIS		21+255.1 LT				DRIVE	(T)							3.6m (11.8') PAVED MM 0364
			21+257.6 LT	21+263.5 LT			INSTALL	(T)	4						PDF; 43 SF
			21+264.7 LT				WALK	(T)							BITUMINOUS CONCRETE WALKWAY
			21+265.9 LT	21+282.1 LT			INSTALL	(T)	11						PDF; 118 SF
6034	RUTLAND MENTAL HEALTH	35	21+276.0 RT	21+287.7 RT			SLOPE	(T)	2						INCL REMOVE & RESET MRBL CURB;
	SERVICES, INC.														22 SF
	d/b/a RUTLAND AREA		21+276.0 RT	21+304.5 RT			D & C	(T)							WATER & SEWER IF APPLICABLE
	COMMUNITY SERVICES		21+276.0 RT	21+304.5 RT			UTIL	(P)	24						AERIAL; 258 SF
			21+276.3 RT	21+287.2 RT			INSTALL	(T)	11						PDF; 118 SF
			21+286.0 RT				WALK	(T)							MARBLE WALKWAY
			21+288.3 RT	21+294.0 RT			SLOPE	(T)	1						INCL REMOVE & RESET MRBL CURB;
															11 SF
			21+288.9 RT	21+293.5 RT			INSTALL	(T)	7						PDF; 75 SF
			21+294.6 RT				WALK	(T)							BRICK WALKWAY
			21+295.3 RT	21+300.6 RT			SLOPE	(T)	4						INCL REMOVE & RESET MRBL CURB;
															43 SF
			21+295.7 RT	21+299.9 RT			INSTALL	(T)	6						PDF; 65 SF
			21+300.1 RT	21+300.6 RT			REMOVE & RESET	(T)							MARBLE CURB, RESET ALONG DRIVE
			21+303.5 RT				DRIVE	(T)							5.4m (17.7') PAVED MM 0367
															IN COMMON PARCEL 6037
6035	HANCSARIK, CHRISTOPHER D. & ALICE M.	35	21+282.1 LT	21+287.1 LT			INSTALL	(T)	3						PDF; 32 SF
			21+282.1 LT	21+298.1 LT			D & C	(T)							WATER & SEWER IF APPLICABLE
			21+288.4 LT				WALK	(T)							BITUMINOUS CONCRETE WALKWAY
			21+292.1 LT				WALK	(T)							MARBLE WALKWAY
			21+296.3 LT				DRIVE	(T)							3.6m (11.8') GRAVEL MM 0366
6036	STEARNS, NANCY M.	35	21+298.1 LT	21+306.2 LT			UTIL	(P)	36						AERIAL; 388 SF
			21+298.1 LT	21+325.3 LT			D & C	(T)							WATER & SEWER IF APPLICABLE
			21+301.1 LT				DRIVE	(T)							4.0m (13.1') PAVED MM 0366
			21+309.8 LT	21+319.5 LT			SLOPE	(T)	2						22 SF
			21+322.3 LT				DRIVE	(T)							3.6m (11.8') PAVED MM 0368
			21+322.3 LT	21+325.3 LT			UTIL	(P)	12						AERIAL & POLE; 129 SF
			21+325.313 LT	21+325.314 LT			REMOVE & REPLACE	(T)							IP

TABLE OF REVISIONS

REVISION NO.	SHEET NO.	DESCRIPTION	DATE

PLAN LEGEND

- EXISTING RIGHT-OF-WAY
- TAKING WITH ACCESS
- TAKING WITHOUT ACCESS
- CZ — CLEAR ZONE
- P / L — PROPERTY LINE
- TOE OF SLOPE
- TOP OF CUT
- SR (P) — SLOPE RIGHT
- CONST. (T) — CONSTRUCTION RIGHT
- PDF ——— PDF — PROJECT DEMARCATION FENCE

(P) -PERMANENT
(T) -TEMPORARY
C&T -CLEARING & TRIMMING RIGHT
CUL. -CULVERT RIGHT
D&C -DISCONNECT & CONNECT
DIT. -DITCHING RIGHT
DR. -DRAINAGE RIGHT
DRIVE -DRIVE RIGHT
EC -EROSION CONTROL
SLOPE -SLOPE RIGHT
TPZ -TREE PROTECTION ZONE FENCE
UTIL -UTILITY EASEMENT

PROJECT NAME: **BRANDON**
PROJECT NUMBER: **NH 019-3(496)**

FILE NAME: **zb008ROW6DetSht.xls**
PROJECT LEADER: **C. BEAN**
DESIGNED BY: **M. HALEY**
R.O.W. DETAIL SHEET #5

PLOT DATE: **8/4/2016**
DRAWN BY: **S. GOODWIN**
CHECKED BY: **D. MUNRO**
SHEET 19 OF 185

RIGHT - OF - WAY DETAIL SHEET

ISSUED FOR CONSTRUCTION

Metric

AREAS ARE IN SQUARE METERS UNLESS OTHERWISE NOTED

TABLE OF PROPERTY ACQUISITION

PARCEL NO.	PROPERTY OWNER	SHEET NO.	BEGINNING STATION	ENDING STATION	TAKE	REMAINDER	RIGHT			RECORDING DATA					REMARKS
					AREA ±	AREA ±	TYPE	(T)/(P)	AREA ±	TITLE	DATE	TOWN / CITY	BOOK	PAGE	
6037	JONES, SAMUEL H. &	35	21+303.5 RT				DRIVE	(T)							5.4m (17.7') PAVED MM 0367
	JONES, BRYAN EARL														IN COMMON PARCEL 6034
			21+304.5 RT	21+331.8 RT			D & C	(T)							WATER & SEWER IF APPLICABLE
			21+304.5 RT	21+331.8 RT			UTIL	(P)	25						AERIAL; 269 SF
			21+306.2 RT	21+313.3 RT			SLOPE	(T)	5						54 SF
			21+306.6 RT	21+313.3 RT			INSTALL	(T)	3						PDF; 32 SF
			21+313.3 RT	21+316.1 RT			INSTALL & MAIN.	(P)	3						DI INCL. EC; 32 SF
			21+316.4 RT				WALK	(T)							STONE WALKWAY
			21+316.8 RT	21+323.8 RT			SLOPE	(T)	2						INCL REMOVE & RESET MRBL CURB;
															22 SF
			21+317.3 RT	21+323.3 RT			INSTALL	(T)	4						PDF; 43 SF
			21+324.5 RT				WALK	(T)							MARBLE WALKWAY
															INCL STEP AND HAND RAILING
			21+325.3 RT	21+331.8 RT			SLOPE	(T)	1						INCL REMOVE & RESET MRBL CURB;
															11 SF
			21+325.8 RT	21+331.3 RT			INSTALL	(T)	6						PDF; 65 SF
			21+331.754 RT	21+331.755 RT			REMOVE & REPLACE	(T)							IP
6038	JONES, ROBERT M.	35-36	21+325.3 LT	21+328.4 LT			UTIL	(P)	12						AERIAL & POLE; 129 SF
			21+325.3 LT	21+359.2 LT			D & C	(T)							WATER & SEWER IF APPLICABLE
			21+325.313 LT	21+325.314 LT			REMOVE & REPLACE	(T)							IP
			21+330.7 LT				DRIVE	(T)							3.6m (11.8') GRAVEL MM 0368
			21+338.1 LT				WALK	(T)							MARBLE WALKWAY
			21+349.3 LT				WALK	(T)							MARBLE WALKWAY
6039	GOLDEN, MICHAEL C.	35-36	21+331.754 RT	21+331.755 RT			REMOVE & REPLACE	(T)							IP
			21+331.8 RT	21+368.1 RT			D & C	(T)							WATER & SEWER IF APPLICABLE
			21+331.8 RT	21+368.1 RT			UTIL	(P)	36						AERIAL; 388 SF
			21+333.5 RT	21+342.8 RT			INSTALL	(T)	17						PDF; 183 SF
			21+344.8 RT				DRIVE	(T)							3.6m (11.8') PAVED MM 0369
			21+350.5 RT				WALK	(T)							CONCRETE WALKWAY
			21+351.8 RT	21+368.1 RT			INSTALL	(T)	16						PDF; 172 SF
6040	HEALY, LINDA J.	36	21+368.1 RT	21+379.7 RT			INSTALL	(T)	15						PDF; 161 SF
			21+368.1 RT	21+392.3 RT			D & C	(T)							WATER & SEWER IF APPLICABLE
			21+368.1 RT	21+392.4 RT			UTIL	(P)	26						AERIAL; 280 SF
			21+380.9 RT				WALK	(T)							BITUMINOUS CONCRETE WALKWAY
			21+381.5 RT	21+389.0 RT			SLOPE	(T)	3						32 SF
			21+381.9 RT	21+388.6 RT			INSTALL	(T)	7						PDF; 75 SF
			21+390.3 RT				DRIVE	(T)							3.0m (9.8') GRAVEL MM 0372
			21+391.6 RT	21+392.4 RT			SLOPE	(T)	1						11 SF
6041	CABOT, JANE	36	21+359.2 LT	21+377.6 LT			D & C	(T)							WATER & SEWER IF APPLICABLE
			21+364.2 LT				DRIVE	(T)							3.6m (11.8') GRAVEL MM 0370
			21+369.9 LT				WALK	(T)							BITUMINOUS CONCRETE WALKWAY
6042	O'NEILL, RONALD J. & DONNA M.	36	21+377.6 LT	21+398.5 LT			D & C	(T)							WATER & SEWER IF APPLICABLE
6043	ESTABROOK, PENNY E.	36-37	21+398.5 LT	21+443.3 LT			D & C	(T)							WATER & SEWER IF APPLICABLE
6044	HATCHER, STEPHEN K.	36-37	21+392.3 RT	21+393.8 RT			SLOPE	(T)	1						11 SF
			21+392.3 RT	21+401.6 RT			UTIL	(P)	18						AERIAL; 194 SF
			21+392.3 RT	21+418.0 RT			D & C	(T)							WATER & SEWER IF APPLICABLE
			21+392.3 RT	21+418.0 RT			UTIL	(P)	28						AERIAL; 301 SF
			21+395.3 RT				DRIVE	(T)							3.6m (11.8') PAVED MM 0372
			21+397.0 RT	21+403.8 RT			SLOPE	(T)	10						108 SF
			21+397.4 RT	21+403.3 RT			INSTALL	(T)	6						PDF; 65 SF
			21+401.4 RT				INSTALL	(T)							TRANSPLANT TREE
			21+404.4 RT				WALK	(T)							BRICK WALKWAY
			21+404.9 RT	21+418.0 RT			SLOPE	(T)	29						312 SF
			21+405.4 RT	21+416.9 RT			INSTALL	(T)	11						PDF & TPZ; 118 SF
			21+418.027 RT	21+418.090 RT			REMOVE & REPLACE	(T)							IP

TABLE OF REVISIONS

REVISION NO.	SHEET NO.	DESCRIPTION	DATE

PLAN LEGEND

EXISTING RIGHT-OF-WAY		TOE OF SLOPE	
TAKING WITH ACCESS		TOP OF CUT	
TAKING WITHOUT ACCESS	SR (P)	SLOPE RIGHT	
CLEAR ZONE	CZ	CONSTRUCTION RIGHT	CONST. (T)
PROPERTY LINE	P / L	PROJECT DEMARCATION FENCE	PDF PDF

(P) -PERMANENT
(T) -TEMPORARY
C&T -CLEARING & TRIMMING RIGHT
CUL. -CULVERT RIGHT
D&C -DISCONNECT & CONNECT
DIT. -DITCHING RIGHT
DR. -DRAINAGE RIGHT
DRIVE -DRIVE RIGHT
EC -EROSION CONTROL
SLOPE -SLOPE RIGHT
TPZ -TREE PROTECTION ZONE FENCE
UTIL -UTILITY EASEMENT

PROJECT NAME: **BRANDON**
PROJECT NUMBER: **NH 019-3(496)**

FILE NAME: zb008ROW6DetSht.xls
PROJECT LEADER: C. BEAN
DESIGNED BY: M. HALEY
R.O.W. DETAIL SHEET #6

PLOT DATE: 8/4/2016
DRAWN BY: S. GOODWIN
CHECKED BY: D. MUNRO
SHEET 20 OF 185

RIGHT - OF - WAY DETAIL SHEET

ISSUED FOR CONSTRUCTION

Metric

AREAS ARE IN SQUARE METERS UNLESS OTHERWISE NOTED

TABLE OF PROPERTY ACQUISITION

PARCEL NO.	PROPERTY OWNER	SHEET NO.	BEGINNING STATION	ENDING STATION	TAKE	REMAINDER	RIGHT			RECORDING DATA					REMARKS
					AREA ±	AREA ±	TYPE	(T)/(P)	AREA ±	TITLE	DATE	TOWN / CITY	BOOK	PAGE	
6045	THE BRANDON FREE PUBLIC LIBRARY	36-37	21+416.5 RT	21+435.4 RT			INSTALL	(T)	18						PDF & TPZ; 194 SF
			21+416.9 RT	21+437.5 RT			SLOPE	(T)	60						646 SF
			21+417.6 RT	21+435.0 RT			UTIL	(P)	20						AERIAL; 215 SF
			21+418.0 RT	VT 73 36+097.7 RT			D & C	(T)							WATER & SEWER IF APPLICABLE
			21+418.027 RT	21+418.090 RT			REMOVE & REPLACE	(T)							IP
			21+422.0 RT				INSTALL	(T)							TRANSPLANT TREE
			21+432.0 RT				INSTALL	(T)							1 TREE
			21+432.9 RT				REMOVE	(T)							1 TREE
			21+436.7 RT	VT 73 36+044.5 RT			SLOPE	(T)	24						258 SF
			21+436.8 RT	21+445.7 RT			INSTALL	(T)	9						PDF; 97 SF
			21+437.9 RT				WALK	(T)							BITUMINOUS CONCRETE WALKWAY
			21+443.1 RT	VT 73 36+042.6 RT			WALK	(T)							CONCRETE WALKWAY INCL
															REMOVE & RESET CURB & TPZ
			21+454.7 RT	21+461.1 RT			INSTALL & MAIN.	(P)	14						DI & CUL. INCL EC; 151 SF
			21+459.9 RT				INSTALL	(T)							1 TREE
			VT 73 36+028.6 RT	VT 73 36+046.4 RT			INSTALL	(T)	13						PDF & TPZ; 140 SF
			VT 73 36+031.5 RT				INSTALL	(T)							1 TREE
			VT 73 36+035.1 RT				REMOVE	(T)							SHRUB
6045A			21+445.000 RT	21+476.559 RT	91							BRANDON			980 SF
6046	DICKERMAN, SHEILA G.	37	21+443.3 LT	21+467.8 LT			D & C	(T)							WATER & SEWER IF APPLICABLE
			21+445.6 LT				DRIVE	(T)							4.8m (15.7') PAVED MM 0375
			21+454.5 LT				WALK	(T)							BITUMINOUS CONCRETE WALKWAY
			21+466.9 LT				REMOVE	(T)							GUY WIRES
6047	LAKE SUNAPEE BANK, FSB	37-38	21+467.8 LT	21+532.5 LT			D & C	(T)							WATER & SEWER IF APPLICABLE
			21+476.9 LT	21+506.8 LT			UTIL	(P)	64						PUTV; 689 SF
			21+478.3 LT				DRIVE	(T)							6.0m (19.7') PAVED MM 0377
			21+479.6 LT	21+490.5 LT			UTIL	(P)	10						PUT; 108 SF
			21+481.7 LT	21+488.2 LT			INSTALL	(T)	4						PDF; 43 SF
			21+486.2 LT	21+494.8 LT			REMOVE & RESET	(T)							COMMERCIAL SIGN; RESET @ 21+486.2 LT
			21+488.3 LT	21+499.8 LT			INSTALL	(T)	5						PDF; 54 SF
			21+488.3 LT	21+502.8 LT			SLOPE	(T)	7						75 SF
			21+490.5 LT				INSTALL & MAIN.	(P)							SIGN
			21+502.3 LT				WALK	(T)							CONCRETE WALKWAY
			21+503.3 LT	21+510.8 LT			SLOPE	(T)	5						54 SF
			21+505.0 LT				INSTALL & MAIN.	(P)							LIGHT POLE & CONDUIT
			21+511.6 LT	21+519.7 LT			INSTALL	(T)	5						PDF; 54 SF
			21+511.9 LT				WALK	(T)							CONCRETE WALKWAY
			21+527.1 LT				DRIVE	(T)							7.0m (23.0') PAVED MM 0380
6047A			21+493.966 LT	21+506.889 LT	9							BRANDON			97 SF
6048	STEWARDS OF THE METHODIST	37-38	21+531.7 LT	21+545.7 LT			INSTALL	(T)	13						PDF; 140 SF
	EPISCOPAL CHURCH OF BRANDON		21+532.3 LT	21+540.0 LT			SLOPE	(T)	3						32 SF
			21+532.5 LT	CARVER 34+056.6 LT			D & C	(T)							WATER & SEWER IF APPLICABLE
			21+545.7 LT	21+550.8 LT			INSTALL	(T)	10						HANDICAP RAMP; 108 SF
			21+547.3 LT	CARVER 34+049.0 LT			INSTALL	(T)	19						PDF; 205 SF
			CARVER 34+058.9 LT				DRIVE	(T)							3.6m (11.8') PAVED
															IN COMMON PARCEL 6049
6048A			21+537.961 LT	21+547.993 LT	7							BRANDON			75 SF
6049	SMITH, JEFFREY T.	37-38	CARVER 34+056.6 LT	CARVER 34+074.8 LT			D & C	(T)							WATER & SEWER IF APPLICABLE
			CARVER 34+058.9 LT				DRIVE	(T)							3.6m (11.8') PAVED
															IN COMMON PARCEL 6048
6050	GATOS, PAMELA &	36	VT 73 36+097.7 RT	VT 73 36+120.2 RT			D & C	(T)							WATER & SEWER IF APPLICABLE
	BRAINERD, PETER D.														
6051	NOT USED														

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- TAKING WITHOUT ACCESS
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- TOP OF CUT
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- CONSTRUCTION RIGHT (CONST. (T))
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DRIVE -DRIVE RIGHT
EC -EROSION CONTROL
SLOPE -SLOPE RIGHT
TPZ -TREE PROTECTION ZONE FENCE
UTIL -UTILITY EASEMENT

PROJECT NAME: **BRANDON**
PROJECT NUMBER: **NH 019-3(496)**

FILE NAME: **zb008ROW6DetSht.xls**
PROJECT LEADER: **C. BEAN**
DESIGNED BY: **M. HALEY**
R.O.W. DETAIL SHEET #7

PLOT DATE: **8/4/2016**
DRAWN BY: **S. GOODWIN**
CHECKED BY: **D. MUNRO**
SHEET 21 OF 185

RIGHT - OF - WAY DETAIL SHEET

ISSUED FOR CONSTRUCTION

Metric

AREAS ARE IN SQUARE METERS UNLESS OTHERWISE NOTED

TABLE OF PROPERTY ACQUISITION

PARCEL NO.	PROPERTY OWNER	SHEET NO.	BEGINNING STATION	ENDING STATION	TAKE	REMAINDER	RIGHT			RECORDING DATA					REMARKS
					AREA ±	AREA ±	TYPE	(T)/(P)	AREA ±	TITLE	DATE	TOWN / CITY	BOOK	PAGE	
6052	ANDERSON, HELYN A.	36	VT 73 36+106.6 LT	VT 73 36+120.0 LT			D & C	(T)							WATER & SEWER IF APPLICABLE
6053	KIMBLE, WARREN L. & LORRAINE P.	36	VT 73 36+078.4 LT	VT 73 36+106.6 LT			D & C	(T)							WATER & SEWER IF APPLICABLE
6054	REMANIAK, DONALD G.	36-37	VT 73 36+055.0 LT	VT 73 36+078.4 LT			D & C	(T)							WATER & SEWER IF APPLICABLE
	REMANIAK, CRESCENT D.														
6055	LaFLAM, DONALD R. & AUDREY A.	37	LOT-A 30+014.3 RT				WALK	(T)							BITUMINOUS CONCRETE WALKWAY
			LOT-A 30+015.1 RT	LOT-A 30+017.2 RT			INSTALL	(T)	4						PDF; 43 SF
			LOT-A 30+016.1 RT				DRIVE	(T)							3.6m (11.8') PAVED MM 0908
			VT 73 36+055.0 RT	LOT-A 30+019.4 RT			D & C	(T)							WATER & SEWER IF APPLICABLE
6056	KIMBLE, WARREN & LORRAINE	37	LOT-A 30+019.4 RT	LOT-A 30+022.0 RT			INSTALL	(T)	3						PDF; 32 SF
			LOT-A 30+019.4 RT	LOT-A 30+029.7 RT			D & C	(T)							WATER & SEWER IF APPLICABLE
			LOT-A 30+022.9 RT				WALK	(T)							BITUMINOUS CONCRETE WALKWAY
			LOT-A 30+023.8 RT	LOT-A 30+026.3 RT			INSTALL	(T)	2						PDF; 22 SF
			LOT-A 30+028.4 RT				DRIVE	(T)							3.3m (10.8') GRAVEL MM 0909
															IN COMMON PARCEL 6057
			LOT-A 30+029.737 RT	LOT-A 30+029.739 RT			REMOVE & REPLACE	(T)							IP
6057	DAVIS, HANFORD R. & SUZANNE A.	37	LOT-A 30+028.4 RT				DRIVE	(T)							3.3m (10.8') GRAVEL MM 0909
															IN COMMON PARCEL 6056
			LOT-A 30+029.7 RT	LOT-A 30+047.2 RT			D & C	(T)							WATER & SEWER IF APPLICABLE
			LOT-A 30+029.737 RT	LOT-A 30+029.739 RT			REMOVE & REPLACE	(T)							IP
			LOT-A 30+030.3 RT	LOT-A 30+034.4 RT			INSTALL	(T)	1						PDF; 11 SF
			LOT-A 30+035.5 RT				WALK	(T)							CONCRETE WALKWAY
			LOT-A 30+036.5 RT	LOT-A 30+046.3 RT			INSTALL	(T)	2						PDF; 22 SF
6058	PATTIS, ALOIS J. & SARAH V.	37-39													ALL EASEMENTS ACQUIRED UNDER
															NH 019-3 (496) C/1
6059	LAWTON, BENJAMIN F. JR. &	38	CARVER 34+021.1 RT	CARVER 34+038.6 RT			INSTALL	(T)	22						PDF; 237 SF
	HAYDEN, SUSAN JANET		CARVER 34+045.0 RT	CARVER 34+065.7 RT			INSTALL	(T)	19						PDF & TPZ; 205 SF
	d/b/a H&L ASSOCIATES		CARVER 34+046.2 RT	CARVER 34+055.5 RT			SLOPE	(T)	3						32 SF
			CARVER 34+074.9 RT	UNION 35+058.1 LT			D & C	(T)							WATER & SEWER IF APPLICABLE
			UNION 35+028.9 LT	UNION 35+037.2 LT			INSTALL	(T)	5						PDF; 54 SF
			UNION 35+044.0 LT				REMOVE	(T)							GUY WIRE
			UNION 35+047.5 LT	UNION 35+050.4 LT			UTIL	(P)	8						PUTV; 86 SF
6059A			CARVER 34+021.000 RT	UNION 35+033.000 LT	42							BRANDON			452 SF
6059B			CARVER 34+025.000 RT	CARVER 34+065.648 RT	106							BRANDON			1141 SF
6060	BLACK, PATRICIA ELIZABETH	38	UNION 35+058.1 LT	UNION 35+076.7 LT			D & C	(T)							WATER & SEWER IF APPLICABLE

TABLE OF REVISIONS

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- PROPERTY LINE (PL)
- TOE OF SLOPE
- TOP OF CUT
- SLOPE RIGHT (SR (P))
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- PROJECT DEMARCATION FENCE (PDF — PDF)

(P) -PERMANENT
(T) -TEMPORARY
C&T -CLEARING & TRIMMING RIGHT
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DIT. -DITCHING RIGHT
DR. -DRAINAGE RIGHT
DRIVE -DRIVE RIGHT
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PROJECT NAME: **BRANDON**
PROJECT NUMBER: **NH 019-3(496)**

FILE NAME: zb008ROW6DetSht.xls
PROJECT LEADER: C. BEAN
DESIGNED BY: M. HALEY
R.O.W. DETAIL SHEET #8

PLOT DATE: 8/4/2016
DRAWN BY: S. GOODWIN
CHECKED BY: D. MUNRO
SHEET 22 OF 185

RIGHT - OF - WAY DETAIL SHEET

ISSUED FOR CONSTRUCTION

Metric

AREAS ARE IN SQUARE METERS UNLESS OTHERWISE NOTED

TABLE OF PROPERTY ACQUISITION

PARCEL NO.	PROPERTY OWNER	SHEET NO.	BEGINNING STATION	ENDING STATION	TAKE	REMAINDER	RIGHT			RECORDING DATA					REMARKS
					AREA ±	AREA ±	TYPE	(T)/(P)	AREA ±	TITLE	DATE	TOWN / CITY	BOOK	PAGE	
6061	HANNAFORD BROS. CO.	38,41	UNION 35+051.8 RT	UNION 35+053.4 RT			UTIL	(P)	3						TEL. PEDESTAL & CONDUIT; 32 SF
			UNION 35+051.8 RT	UNION 35+089.5 RT			D & C	(T)							WATER & SEWER IF APPLICABLE
			UNION 35+052.9 RT	UNION 35+053.6 RT			INSTALL	(T)							VERTICAL GRANITE CURB
			UNION 35+053.5 RT	UNION 35+054.5 RT			INSTALL	(T)							TPZ (2 TREES) ALONG PARKING LOT
			UNION 35+053.6 RT				REMOVE	(T)							HYDRANT
			UNION 35+058.6 RT				DRIVE	(T)							9.8m (32.2') COLD PLANE/ OVERLAY
			UNION 35+079.0 RT	UNION 35+089.8 RT			UTIL	(P)	27						AERIAL; 291 SF
			UNION 35+088.0 RT				INSTALL & MAIN.	(P)							GUY WIRES & (2) ANCHORS
6062	TRIPLE M. MARKETS, INC.	38	21+599.4 LT				REMOVE	(T)							GUY WIRES
			21+600.4 LT	UNION 35+021.8 RT			UTIL	(P)	35						TRANSFORMERS, PUE&T & PUTV; 377 SF
			UNION 35+012.4 RT	UNION 35+052.7 RT			DRIVE	(T)							9.8m (32.2') PAVED
			UNION 35+035.6 RT				INSTALL	(T)							SIGN
			UNION 35+036.7 RT	UNION 35+038.9 RT			INSTALL & MAIN.	(P)	6						DI & CUL; 65 SF
			UNION 35+038.1 RT	21+615.2 LT			INSTALL	(T)							VERTICAL GRANITE CURB
															ALONG PARKING LOT
			UNION 35+038.1 RT	UNION 35+040.9 RT			INSTALL	(T)							GRANITE SLOPE EDGING
			UNION 35+039.5 RT				INSTALL	(T)							SIGN
			UNION 35+044.1 RT	UNION 35+055.1 RT			UTIL	(P)	35						PUT; 377 SF
			UNION 35+049.9 RT	UNION 35+052.5 RT			INSTALL	(T)							VERTICAL GRANITE CURB
			UNION 35+051.8 RT	21+618.0 LT			D & C	(T)							WATER & SEWER IF APPLICABLE
			UNION 35+051.9 RT				INSTALL	(T)							1 TREE
			UNION 35+053.5 RT	UNION 35+054.5 RT			INSTALL	(T)							TPZ (2 TREES) ALONG PARKING LOT
			UNION 35+054.3 RT				WALK	(T)							CONCRETE WALKWAY
			UNION 35+054.8 RT	21+615.3 LT			RECONSTRUCT	(T)	660						PAVED PARKING LOT; 0.16 Ac.
6063	BRANDON CONGREGATIONAL	38,42	21+618.0 LT	21+656.7 LT			D & C	(T)							WATER & SEWER IF APPLICABLE
	CHURCH, INC.		21+633.6 LT	21+645.6 LT			INSTALL	(T)	9						PDF & TPZ; 97 SF
			21+634.1 LT	21+644.2 LT			SLOPE	(T)	10						108 SF
			21+642.1 LT	21+644.7 LT			DETOUR	(T)	1						11 SF
6064	LI, BO	38-39													ALL EASEMENTS ACQUIRED UNDER
															NH 019-3 (496) C/1
6065	HOWELLS, DAVID A.	38-39													ALL EASEMENTS ACQUIRED UNDER
															NH 019-3 (496) C/1
6066	ERRICK, STEVEN M. & JOANNE D.	38-39	LOT-A 30+135.0 RT	LOT-A 30+141.1 RT			D & C	(T)							WATER & SEWER IF APPLICABLE
6067	JOHNSON, LAWRENCE M. & ROSEANN M.	38-39,42	LOT-A 30+141.1 RT	LOT-A 30+153.6 RT			D & C	(T)							WATER & SEWER IF APPLICABLE
6068	LAKE SUNAPEE BANK, FSB	42	21+655.9 RT	21+672.3 RT			SIDEWALK	(P)	3						CONCRETE SIDEWALK; 32 SF
			LOT-A 30+153.6 RT	21+672.3 RT			D & C	(T)							WATER & SEWER IF APPLICABLE
6069	LAKE SUNAPEE BANK, FSB	42	21+672.2 RT	21+684.4 RT			SIDEWALK	(P)	3						CONCRETE SIDEWALK; 32 SF
			21+672.3 RT	21+684.4 RT			D & C	(T)							WATER & SEWER IF APPLICABLE
6070	BRANDON ARTISTS GUILD	42	21+684.4 RT	21+696.0 RT			D & C	(T)							WATER & SEWER IF APPLICABLE
			21+695.962 RT	21+695.969 RT			REMOVE & REPLACE	(T)							IP
6071	NOT USED														

TABLE OF REVISIONS

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DIT. -DITCHING RIGHT
DR. -DRAINAGE RIGHT
DRIVE -DRIVE RIGHT
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TPZ -TREE PROTECTION ZONE FENCE
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PROJECT NAME: **BRANDON**
PROJECT NUMBER: **NH 019-3(496)**

FILE NAME: zb008ROW6DetSht.xls
PROJECT LEADER: C. BEAN
DESIGNED BY: M. HALEY
R.O.W. DETAIL SHEET #9

PLOT DATE: 8/4/2016
DRAWN BY: S. GOODWIN
CHECKED BY: D. MUNRO
SHEET 23 OF 185

RIGHT - OF - WAY DETAIL SHEET

ISSUED FOR CONSTRUCTION

Metric

AREAS ARE IN SQUARE METERS UNLESS OTHERWISE NOTED

TABLE OF PROPERTY ACQUISITION

PARCEL NO.	PROPERTY OWNER	SHEET NO.	BEGINNING STATION	ENDING STATION	TAKE	REMAINDER	RIGHT			RECORDING DATA					REMARKS
					AREA ±	AREA ±	TYPE	(T)/(P)	AREA ±	TITLE	DATE	TOWN / CITY	BOOK	PAGE	
6072	WETMORE, BRENT D.	42	21+686.9 LT	21+709.4 LT			D & C	(T)							WATER & SEWER IF APPLICABLE
			21+688.1 LT	21+709.4 LT			DRIVE	(T)							10.5m (34.4') PAVED MM 0391
			21+708.8 LT	21+709.4 LT			SIDEWALK	(P)	1						CONCRETE SIDEWALK; 11 SF
6073	11 CENTER STREET VENTURES, LLC	42-43	21+713.0 RT	21+741.3 RT			D & C	(T)							WATER & SEWER IF APPLICABLE
6074	NESHOBE REAL ESTATE, LLC	42-43	21+709.4 LT	21+724.7 LT			SIDEWALK	(P)	2						CONCRETE SIDEWALK; 22 SF
			21+709.4 LT	21+746.4 LT			D & C	(T)							WATER & SEWER IF APPLICABLE
6075	WILLWAY REAL ESTATE, LLC	43	21+757.2 LT	21+767.5 LT			D & C	(T)							WATER & SEWER IF APPLICABLE
6076	MYERS, LIZA S. & GERMOND, JAMES E.	43	21+767.5 LT	21+776.2 LT			D & C	(T)							WATER & SEWER IF APPLICABLE
6077	NOT USED														
6078	CARLAJOHN PARTNERS	43	21+741.3 RT	21+754.4 RT			D & C	(T)							WATER & SEWER IF APPLICABLE
6079	ROSE, ALEXANDER & PHYLLIS	43	21+754.4 RT	21+759.3 RT			D & C	(T)							WATER & SEWER IF APPLICABLE
6080	NOT USED														
6081	WALTER, ELLEN ROHRBAUGH	43	21+770.4 RT	21+775.1 RT			D & C	(T)							WATER & SEWER IF APPLICABLE
6082	VAFIAS, JOHN VAFIAS, DEMETRIOS (MITCH)	43													NO IMPACTS
6083	ROWE, RICHARD W.	43	21+782.7 RT	21+784.3 RT			D & C	(T)							WATER & SEWER IF APPLICABLE
			21+783.0 RT	21+785.7 RT			SIDEWALK	(P)	7						CONCRETE SIDEWALK; 75 SF
6084	NESHOBE FALLS, LLC	43	21+784.3 RT	21+793.2 RT			SIDEWALK	(P)	16						CONCRETE SIDEWALK
															INCL RAMP @ 21+788.6 RT;172 SF
			21+784.3 RT	21+810.9 RT			D & C	(T)							WATER & SEWER IF APPLICABLE
6085	NOT USED														

TABLE OF REVISIONS

REVISION NO.	SHEET NO.	DESCRIPTION	DATE

PLAN LEGEND

- EXISTING RIGHT-OF-WAY
- TAKING WITH ACCESS
- TAKING WITHOUT ACCESS
- CZ — CLEAR ZONE
- P / L — PROPERTY LINE
- TOE OF SLOPE
- TOP OF CUT
- SR (P) — SLOPE RIGHT
- CONST. (T) — CONSTRUCTION RIGHT
- PDF ——— PDF — PROJECT DEMARCATION FENCE

(P) -PERMANENT
(T) -TEMPORARY
C&T -CLEARING & TRIMMING RIGHT
CUL. -CULVERT RIGHT
D&C -DISCONNECT & CONNECT
DIT. -DITCHING RIGHT
DR. -DRAINAGE RIGHT
DRIVE -DRIVE RIGHT
EC -EROSION CONTROL
SLOPE -SLOPE RIGHT
TPZ -TREE PROTECTION ZONE FENCE
UTIL -UTILITY EASEMENT

PROJECT NAME: **BRANDON**
PROJECT NUMBER: **NH 019-3(496)**

FILE NAME: zb008ROW6DetSht.xls
PROJECT LEADER: C. BEAN
DESIGNED BY: M. HALEY
R.O.W. DETAIL SHEET #10

PLOT DATE: 8/4/2016
DRAWN BY: S. GOODWIN
CHECKED BY: D. MUNRO
SHEET 24 OF 185

RIGHT - OF - WAY DETAIL SHEET

ISSUED FOR CONSTRUCTION

Metric

AREAS ARE IN SQUARE METERS UNLESS OTHERWISE NOTED

TABLE OF PROPERTY ACQUISITION

PARCEL NO.	PROPERTY OWNER	SHEET NO.	BEGINNING STATION	ENDING STATION	TAKE	REMAINDER	RIGHT			RECORDING DATA					REMARKS
					AREA ±	AREA ±	TYPE	(T)/(P)	AREA ±	TITLE	DATE	TOWN / CITY	BOOK	PAGE	
6086	READ, ROBERT P.	39,43													ALL EASEMENTS ACQUIRED UNDER NH 019-3 (496) C/1
6087	READ, ROBERT P.	39,43													ALL EASEMENTS ACQUIRED UNDER NH 019-3 (496) C/1
6088	HERITAGE FAMILY FEDERAL CREDIT UNION	43	SEMINARY 9+035.9 LT	SEMINARY 9+037.4 LT			INSTALL & MAIN.	(P)	1						DI & CUL; 11 SF
			SEMINARY 9+035.9 LT	SEMINARY 9+072.4 LT			D & C	(T)							WATER & SEWER IF APPLICABLE
			SEMINARY 9+043.0 LT				DRIVE	(T)							10.5m (34.4') PAVED
6089	NOT USED														
6090	VACCARELLA, TONY C. & SHARI K.	43	21+849.3 RT	21+865.9 RT			D & C	(T)							WATER & SEWER IF APPLICABLE
6091	POWELL, CHARLES T.	43-44	21+831.3 LT	21+835.0 LT			HIGHWAY	(P)	4						43 SF
	ZORN, STEVEN D.		21+831.3 LT	21+878.4 LT			D & C	(T)							WATER & SEWER IF APPLICABLE
	BUEHLER, BRENT L.		21+835.0 LT	21+837.6 LT			WALK	(T)							BITUMINOUS CONCRETE WALKWAY
			21+872.0 LT	21+878.4 LT			DRAINAGE SYSTEM	(P)	45						INCL CUL. & STORM. TREAT. STRUCT.; 464 SF
6092	NOT USED														
6093	MT ASSOCIATES, LLC	43-45	21+864.765 RT	21+864.830 RT			REMOVE & REPLACE	(T)							IP
			21+864.8 RT	21+916.2 RT			D & C	(T)							WATER & SEWER IF APPLICABLE
			21+864.8 RT	21+916.2 RT			UTIL	(P)	86						AERIAL, PUE&T, PUTV AND POLE; 926 SF
			21+866.0 RT	21+871.0 RT			INSTALL	(T)							VERTICAL GRANITE CURB
			21+867.4 RT	21+879.8 RT			CONST	(T)	209						2250 SF
			21+869.7 RT	21+897.7 RT			DRAINAGE SYSTEM	(P)	405						INCL CUL. & DI; 0.10 Ac.
			21+870.7 RT	21+897.2 RT			DRIVE	(T)							12.0m (39.4') PAVED MM 0402
			21+871.5 RT	21+879.5 RT			UTIL	(P)	105						SEWER; 1130 SF
			21+883.5 RT	21+903.2 RT			DETOUR	(T)	10						108 SF
			21+897.3 RT	21+899.2 RT			CONST	(T)	14						INCL PDF; 151 SF
			21+915.7 RT	21+916.2 RT			INSTALL & MAIN.	(P)							GUY WIRES & ANCHOR INCL REMOVE EXIST. GUY WIRES
6094	BRIGGS LANE BRANDON, LLC	44	21+891.2 LT	21+896.2 LT			CONST	(T)	55						INCL PDF & FILL & ABANDON BOX CULVERT; 592 SF
			21+891.2 LT	21+911.3 LT			D & C	(T)							WATER & SEWER IF APPLICABLE
			21+891.2 LT	21+911.3 LT			ACCESS	(P)							
			21+893.1 LT	21+894.5 LT			SLOPE	(P)	6						INCL RIP RAP; 65 SF

TABLE OF REVISIONS

REVISION NO.	SHEET NO.	DESCRIPTION	DATE

PLAN LEGEND

EXISTING RIGHT-OF-WAY		TOE OF SLOPE	
TAKING WITH ACCESS		TOP OF CUT	
TAKING WITHOUT ACCESS	SR (P)	SLOPE RIGHT	
CLEAR ZONE	CONST. (T)	CONSTRUCTION RIGHT	
PROPERTY LINE	PDF PDF	PROJECT DEMARCATION FENCE	

(P) -PERMANENT
(T) -TEMPORARY
C&T -CLEARING & TRIMMING RIGHT
CUL. -CULVERT RIGHT
D&C -DISCONNECT & CONNECT
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DR. -DRAINAGE RIGHT
DRIVE -DRIVE RIGHT
EC -EROSION CONTROL
SLOPE -SLOPE RIGHT
TPZ -TREE PROTECTION ZONE FENCE
UTIL -UTILITY EASEMENT

REV	DATE	DESCRIPTION
1	3/31/2017	REVISED EASEMENTS FOR PARCEL 6091

PROJECT NAME: BRANDON
PROJECT NUMBER: NH 019-3(496)

FILE NAME: zb008ROW6DetSht.xls
PROJECT LEADER: C. BEAN
DESIGNED BY: M. HALEY
R.O.W. DETAIL SHEET #11

PLOT DATE: 3/10/2017
DRAWN BY: S. GOODWIN
CHECKED BY: D. MUNRO
SHEET 25 OF 185

RIGHT - OF - WAY DETAIL SHEET

ISSUED FOR CONSTRUCTION

Metric

AREAS ARE IN SQUARE METERS UNLESS OTHERWISE NOTED

TABLE OF PROPERTY ACQUISITION

PARCEL NO.	PROPERTY OWNER	SHEET NO.	BEGINNING STATION	ENDING STATION	TAKE	REMAINDER	RIGHT			RECORDING DATA					REMARKS
					AREA ±	AREA ±	TYPE	(T)/(P)	AREA ±	TITLE	DATE	TOWN / CITY	BOOK	PAGE	
6095	NOT USED														
6096	TRUSTEES OF THE DIOCESE OF VERMONT	44	21+916.2 RT	PROSPECT 8+060.0 RT			D & C	(T)							WATER & SEWER IF APPLICABLE
6097	BRIGGS LANE BRANDON, LLC	44	21+911.3 LT	21+941.1 LT			D & C	(T)							WATER & SEWER IF APPLICABLE
6098	BATES PROPERTIES OF BRANDON, LLC	44	21+941.1 LT	21+955.0 LT			D & C	(T)							WATER & SEWER IF APPLICABLE
6099	REILLY, GEORGE & MARY JUDITH	44	21+955.0 LT	21+966.0 LT			D & C	(T)							WATER & SEWER IF APPLICABLE
			21+959.3 LT	21+959.6 LT			REMOVE	(T)							HAND RAILING
			21+960.3 LT				WALK	(T)							CONCRETE WALKWAY
															INCL. HAND RAILING
			21+960.9 LT	21+966.0 LT			REMOVE	(T)							HAND RAILING
6100	TRUSTEES OF THE DIOCESE OF VERMONT	44	PROSPECT 8+014.9 LT	PROSPECT 8+051.5 LT			UTIL	(P)	29						AERIAL; 312 SF
			PROSPECT 8+060.0 LT	21+992.9 RT			D & C	(T)							WATER & SEWER IF APPLICABLE
6101	REILLY, GEORGE & MARY JUDITH	44,46	21+965.0 LT	21+972.6 LT			UTIL	(P)	56						AERIAL & POLE; 603 SF
			21+966.0 LT	22+013.4 LT			D & C	(T)							WATER & SEWER IF APPLICABLE
			21+986.0 LT	21+987.6 LT			REMOVE	(T)							HAND RAILING
6102	HAYDEN, SUSAN J.	46	22+013.4 LT	22+037.6 LT			D & C	(T)							WATER & SEWER IF APPLICABLE
6103	SHEA, HEATHER JANE	44,46	21+992.9 RT	22+026.6 RT			D & C	(T)							WATER & SEWER IF APPLICABLE
6104	LEAVITT, ALLAN M.	46	22+026.6 RT	22+069.9 RT			D & C	(T)							WATER & SEWER IF APPLICABLE
6105	CONANT SQUARE HOUSING	46-47	22+037.6 LT	22+086.5 LT			D & C	(T)							WATER & SEWER IF APPLICABLE
	LIMITED PARTNERSHIP		22+071.7 LT	22+091.2 LT			CONST	(T)	261						INCL PDF; 2809 SF
			22+074.0 LT	22+082.5 LT			UTIL	(P)	101						SEWER; 1087 SF
			22+077.0 LT	22+090.9 LT			DRAINAGE SYSTEM	(P)	433						INCL CUL., DIT., DR., DI &
															STORM TREAT. STRUCT.;4661 SF
			22+085.7 LT				REMOVE & RESET	(T)							LIGHT
			22+087.0 LT	22+088.3 LT			INSTALL & MAIN.	(P)							GUY WIRES & ANCHOR
6106	THAYER BTS HOUSING L.P.	46	22+069.9 RT	22+103.9 RT			D & C	(T)							WATER & SEWER IF APPLICABLE
6107	CREELEY, DALE E. & LINDA J.	46,48	22+103.9 RT	22+120.6 RT			D & C	(T)							WATER & SEWER IF APPLICABLE

TABLE OF REVISIONS

REVISION NO.	SHEET NO.	DESCRIPTION	DATE

PLAN LEGEND

EXISTING RIGHT-OF-WAY		TOE OF SLOPE	
TAKING WITH ACCESS		TOP OF CUT	
TAKING WITHOUT ACCESS	SR (P)	SLOPE RIGHT	
CLEAR ZONE	CONST. (T)	CONSTRUCTION RIGHT	
PROPERTY LINE	PDF PDF	PROJECT DEMARCATION FENCE	

(P) -PERMANENT
(T) -TEMPORARY
C&T -CLEARING & TRIMMING RIGHT
CUL. -CULVERT RIGHT
D&C -DISCONNECT & CONNECT
DIT. -DITCHING RIGHT
DR. -DRAINAGE RIGHT
DRIVE -DRIVE RIGHT
EC -EROSION CONTROL
SLOPE -SLOPE RIGHT
TPZ -TREE PROTECTION ZONE FENCE
UTIL -UTILITY EASEMENT

PROJECT NAME: **BRANDON**
PROJECT NUMBER: **NH 019-3(496)**

FILE NAME: zb008ROW6DetSht.xls
PROJECT LEADER: C. BEAN
DESIGNED BY: M. HALEY
R.O.W. DETAIL SHEET #12

PLOT DATE: 8/4/2016
DRAWN BY: S. GOODWIN
CHECKED BY: D. MUNRO
SHEET 26 OF 185

RIGHT - OF - WAY DETAIL SHEET

ISSUED FOR CONSTRUCTION

Metric

AREAS ARE IN SQUARE METERS UNLESS OTHERWISE NOTED

TABLE OF PROPERTY ACQUISITION

PARCEL NO.	PROPERTY OWNER	SHEET NO.	BEGINNING STATION	ENDING STATION	TAKE	REMAINDER	RIGHT			RECORDING DATA					REMARKS
					AREA ±	AREA ±	TYPE	(T)/(P)	AREA ±	TITLE	DATE	TOWN / CITY	BOOK	PAGE	
6108	DOUBLE BOGEY REALTY, INC.	46-49	22+086.5 LT	PEARL 19+091.0 LT			D & C	(T)							WATER & SEWER IF APPLICABLE
			22+086.5 LT	22+093.4 LT			UTIL	(P)	75						AERIAL; 807 SF
			22+090.3 LT	22+096.6 LT			INSTALL & MAIN.	(P)	35						DI INCL REMOVE EXIST. CUL. & DI; 377 SF
			22+090.9 LT	22+094.5 LT			CONST	(T)	6						INCL PDF; 65 SF
			22+091.9 LT	22+093.9 LT			REMOVE & REPLACE	(T)							GUARDRAIL
			PEARL 19+021.7 LT	PEARL 19+043.2 LT			UTIL	(P)	42						AERIAL; 452 SF
			PEARL 19+024.3 LT	PEARL 19+041.8 LT			DRIVE	(T)							7.2m (23.6') PAVED
			PEARL 19+084.9 LT				DRIVE	(T)							8.0m (26.2') PAVED
			PEARL 19+089.3 LT	PEARL 19+091.0 LT			INSTALL	(T)	2						PDF; 22 SF
6109	TORREY, WENDY E.	49	PEARL 19+091.0 LT	PEARL 19+105.0 LT			D & C	(T)							WATER & SEWER IF APPLICABLE
	CLARK, PATRICK R.		PEARL 19+091.0 LT	PEARL 19+105.0 LT			INSTALL	(T)	13						PDF; 140 SF
6110	HERRIMAN, JOHN & MERRI CHRIS	48-49	PEARL 19+073.2 RT	PEARL 19+105.0 RT			D & C	(T)							WATER & SEWER IF APPLICABLE
6111	FRASSICA, PHILIP T.	48-49	VT 73 18+026.2 LT				DRIVE	(T)							3.6m (11.8') GRAVEL
			VT 73 18+029.0 LT	PEARL 19+073.2 RT			D & C	(T)							WATER & SEWER IF APPLICABLE
6112	SUMMA, BRUCE M.	48													NO IMPACTS
	RIMMELIN, LORRAINE														
6113	SUMMA, BRUCE M.	48	22+140.8 RT	22+158.9 RT			D & C	(T)							WATER & SEWER IF APPLICABLE
	RIMMELIN, LORRAINE														
6114	McDONOUGH, JOHN F.	48	22+158.9 RT	22+195.4 RT			D & C	(T)							WATER & SEWER IF APPLICABLE
			22+164.2 RT				DRIVE	(T)							12.0m (40.0') PAVED MM 0420
			22+180.4 RT	22+183.5 RT			INSTALL & MAIN.	(P)	1						GRANITE SLOPED EDGING & ISLAND; 11 SF
			22+188.7 RT				DRIVE	(T)							10.0m (32.8') PAVED MM 0422
			22+193.1 RT	22+195.2 RT			SLOPE	(T)	4						43 SF
6114A			22+181.442 RT	22+195.432 RT	13							BRANDON			140 SF
6115	SWINNGTON, DONNA B.	48	VT 73 18+029.0 LT	VT 73 18+058.6 LT			D & C	(T)							WATER & SEWER IF APPLICABLE
			VT 73 18+053.8 LT	VT 73 18+058.6 LT			UTIL	(P)	24						AERIAL; 258 SF
6116	STEARNS, NANCY M.	48-49	VT 73 18+058.6 LT	VT 73 18+099.7 LT			D & C	(T)							WATER & SEWER IF APPLICABLE
			VT 73 18+074.0 LT				WALK	(T)							BITUMINOUS CONCRETE WALKWAY
			VT 73 18+092.0 LT				INSTALL & MAIN.	(P)							SIGN
			VT 73 18+099.6 LT				INSTALL & MAIN.	(P)							GUY WIRES & ANCHOR
6117	CONLIN, CHRIS A.	49	VT 73 18+099.6 LT				INSTALL & MAIN.	(P)							GUY WIRES & ANCHOR

TABLE OF REVISIONS

REVISION NO.	SHEET NO.	DESCRIPTION	DATE

PLAN LEGEND

- EXISTING RIGHT-OF-WAY
- TAKING WITH ACCESS
- TAKING WITHOUT ACCESS
- CLEAR ZONE (CZ)
- PROPERTY LINE (P L)
- TOE OF SLOPE
- TOP OF CUT
- SLOPE RIGHT (SR (P))
- CONSTRUCTION RIGHT (CONST. (T))
- PROJECT DEMARCATION FENCE (PDF)

(P) -PERMANENT
(T) -TEMPORARY
C&T -CLEARING & TRIMMING RIGHT
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D&C -DISCONNECT & CONNECT
DIT. -DITCHING RIGHT
DR. -DRAINAGE RIGHT
DRIVE -DRIVE RIGHT
EC -EROSION CONTROL
SLOPE -SLOPE RIGHT
TPZ -TREE PROTECTION ZONE FENCE
UTIL -UTILITY EASEMENT

PROJECT NAME: **BRANDON**
PROJECT NUMBER: **NH 019-3(496)**

FILE NAME: **zb008ROW6DetSht.xls**
PROJECT LEADER: **C. BEAN**
DESIGNED BY: **M. HALEY**
R.O.W. DETAIL SHEET #13

PLOT DATE: **8/4/2016**
DRAWN BY: **S. GOODWIN**
CHECKED BY: **D. MUNRO**
SHEET 27 OF 185

RIGHT - OF - WAY DETAIL SHEET

ISSUED FOR CONSTRUCTION

Metric

AREAS ARE IN SQUARE METERS UNLESS OTHERWISE NOTED

TABLE OF PROPERTY ACQUISITION

PARCEL NO.	PROPERTY OWNER	SHEET NO.	BEGINNING STATION	ENDING STATION	TAKE	REMAINDER	RIGHT			RECORDING DATA					REMARKS
					AREA ±	AREA ±	TYPE	(T)/(P)	AREA ±	TITLE	DATE	TOWN / CITY	BOOK	PAGE	
6118	BAPTIST CHURCH SOCIETY OF BRANDON	48-50	VT 73 18+038.8 RT	VT 73 18+054.8 RT			INSTALL	(T)	15						PDF; 161 SF
			VT 73 18+042.2 RT	VT 73 18+070.1 RT			UTIL	(P)	64						AERIAL; 689 SF
			VT 73 18+042.3 RT	VT 73 18+056.3 RT			SLOPE	(T)	8						86 SF
			VT 73 18+049.9 RT				INSTALL & MAIN.	(P)							GUY WIRES & (2) ANCHORS
			VT 73 18+057.5 RT				WALK	(T)							BITUMINOUS CONCRETE WALKWAY
			VT 73 18+058.7 RT	VT 73 18+078.4 RT			INSTALL	(T)	17						PDF; 183 SF
			VT 73 18+066.8 RT	VT 73 18+078.9 RT			SLOPE	(T)	7						75 SF
			VT 73 18+079.7 RT				WALK	(T)							CONCRETE WALKWAY
			VT 73 18+080.4 RT	VT 73 18+096.3 RT			SLOPE	(T)	10						108 SF
			VT 73 18+080.9 RT	VT 73 18+103.0 RT			INSTALL	(T)	20						PDF; 215 SF
			VT 73 18+103.0 RT	22+230.2 LT			D & C	(T)							WATER & SEWER IF APPLICABLE
6118A			VT 73 18+038.809 RT	VT 73 18+050.000 RT	15							BRANDON			161 SF
6119	WESCO, INC.	48	22+194.3 RT	22+202.7 RT			SLOPE	(T)	25						269 SF
			22+194.7 RT	22+202.0 RT			INSTALL	(T)	7						PDF; 75 SF
			22+195.4 RT	22+210.2 RT			D & C	(T)							WATER & SEWER IF APPLICABLE
			22+196.0 RT				INSTALL & MAIN.	(P)							SIGN
			22+203.3 RT				WALK	(T)							BITUMINOUS CONCRETE WALKWAY
			22+203.8 RT	22+210.2 RT			SLOPE	(T)	21						226 SF
			22+204.4 RT	22+210.0 RT			INSTALL	(T)	5						PDF; 54 SF
			22+208.0 RT				INSTALL & MAIN.	(P)							SIGN
6119A			22+195.195 RT	22+206.258 RT	8							BRANDON			86 SF
6120	WESCO, INC.	48,50	22+209.9 RT	22+212.3 RT			INSTALL	(T)	2						PDF; 22 SF
			22+210.0 RT	22+212.9 RT			SLOPE	(T)	7						75 SF
			22+210.2 RT	22+259.4 RT			D & C	(T)							WATER & SEWER IF APPLICABLE
			22+210.5 RT	22+234.0 RT			UTIL	(P)	25						AERIAL; 269 SF
			22+215.0 RT				DRIVE	(T)							4.8m (15.7') PAVED MM 0423
			22+216.9 RT	22+221.5 RT			SLOPE	(T)	2						22 SF
			22+217.2 RT	22+219.4 RT			INSTALL & MAIN.	(P)	1						VERTICAL GRANITE CURB & ISLAND
															INCL LANDSCAPING; 11 SF
6121	STEPHEN A. DOUGLAS BIRTHPLACE COMMUNITY CENTER, INC.	48,50	22+230.2 LT	22+260.8 LT			D & C	(T)							WATER & SEWER IF APPLICABLE
6122	MORRIS, RICHARD W. & KAREN A.	50	22+260.8 LT	22+289.0 LT			D & C	(T)							WATER & SEWER IF APPLICABLE
6123	THIRD BRANCH	50	22+259.4 RT	22+268.7 RT			D & C	(T)							WATER & SEWER IF APPLICABLE
	INVESTMENT COMPANY, LLC		22+265.2 RT	22+268.2 RT			INSTALL & MAIN.	(P)	27						DI & CUL. INCL EC; 291 SF
6124	THIRD BRANCH	50	22+268.7 RT	22+304.7 RT			D & C	(T)							WATER & SEWER IF APPLICABLE
	INVESTMENT COMPANY, LLC		22+290.0 RT	22+304.0 RT			CONST	(T)							CONNECT EXIST. STORM WATER DRAIN TO PROPOSED DRAINAGE
6125	PAGE, LISA T. & KENYON, DEAN J.	50	22+289.0 LT	22+307.8 LT			D & C	(T)							WATER & SEWER IF APPLICABLE
6126	CYR, MARIE M.	50	22+307.8 LT	22+330.6 LT			D & C	(T)							WATER & SEWER IF APPLICABLE
			22+326.4 LT				DRIVE	(T)							3.6m (11.8') CONCRETE MM 0430

TABLE OF REVISIONS

REVISION NO.	SHEET NO.	DESCRIPTION	DATE

PLAN LEGEND

- EXISTING RIGHT-OF-WAY
- TAKING WITH ACCESS
- TAKING WITHOUT ACCESS
- CLEAR ZONE (CZ)
- PROPERTY LINE (P / L)
- TOE OF SLOPE
- TOP OF CUT
- SLOPE RIGHT (SR (P))
- CONSTRUCTION RIGHT (CONST. (T))
- PROJECT DEMARCATION FENCE (PDF)

(P) -PERMANENT
(T) -TEMPORARY
C&T -CLEARING & TRIMMING RIGHT
CUL. -CULVERT RIGHT
D&C -DISCONNECT & CONNECT
DIT. -DITCHING RIGHT
DR. -DRAINAGE RIGHT
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EC -EROSION CONTROL
SLOPE -SLOPE RIGHT
TPZ -TREE PROTECTION ZONE FENCE
UTIL -UTILITY EASEMENT

PROJECT NAME: **BRANDON**
PROJECT NUMBER: **NH 019-3(496)**

FILE NAME: zb008ROW6DetSht.xls
PROJECT LEADER: C. BEAN
DESIGNED BY: M. HALEY
R.O.W. DETAIL SHEET #14

PLOT DATE: 8/4/2016
DRAWN BY: S. GOODWIN
CHECKED BY: D. MUNRO
SHEET 28 OF 185

RIGHT - OF - WAY DETAIL SHEET

ISSUED FOR CONSTRUCTION

Metric

AREAS ARE IN SQUARE METERS UNLESS OTHERWISE NOTED

TABLE OF PROPERTY ACQUISITION

PARCEL NO.	PROPERTY OWNER	SHEET NO.	BEGINNING STATION	ENDING STATION	TAKE	REMAINDER	RIGHT			RECORDING DATA					REMARKS
					AREA ±	AREA ±	TYPE	(T)/(P)	AREA ±	TITLE	DATE	TOWN / CITY	BOOK	PAGE	
6127	THIRD BRANCH INVESTMENT COMPANY, LLC	50	22+304.0 RT	22+318.0 RT			CONST	(T)							CONNECT EXIST. STORM WATER DRAIN TO PROPOSED DRAINAGE
6128	HUNT, HARRY & ARLENE	50	22+334.9 RT	22+349.5 RT			D & C	(T)							WATER & SEWER IF APPLICABLE
6129	CYR, MARIE M.	50	22+330.6 LT	22+347.1 LT			D & C	(T)							WATER & SEWER IF APPLICABLE
6130	REYNOLDS, JOHN M.	50-51	22+347.1 LT	22+363.3 LT			D & C	(T)							WATER & SEWER IF APPLICABLE
6131	BEAUREGARD, HENRY G. & BARBARA	50-51	22+363.3 LT	22+380.6 LT			D & C	(T)							WATER & SEWER IF APPLICABLE
			22+368.9 LT				WALK	(T)							CONCRETE WALKWAY
6132	SMITH, HARVEY M. JR. & SUZANNE M.	50-51	22+349.5 RT	22+393.7 RT			D & C	(T)							WATER & SEWER IF APPLICABLE
6133	THE GAZEBO INN, INC.	51	22+393.7 RT	22+438.2 RT			D & C	(T)							WATER & SEWER IF APPLICABLE
6134	PARKER, CAROL P.	51	22+380.6 LT	22+394.6 LT			D & C	(T)							WATER & SEWER IF APPLICABLE
6135	ENGLISH, STANTON J.	51	22+394.6 LT	22+418.8 LT			D & C	(T)							WATER & SEWER IF APPLICABLE
6136	DRINKWINE, MATTHEW	51	22+418.8 LT	22+435.4 LT			D & C	(T)							WATER & SEWER IF APPLICABLE
			22+421.5 LT				DRIVE	(T)							4.8m (15.7') GRAVEL MM 0436
6137	FOLEY, MARK K. SR. & NANCY A.	51	22+435.4 LT	22+455.5 LT			D & C	(T)							WATER & SEWER IF APPLICABLE
			22+438.3 LT				DRIVE	(T)							4.8m (15.7') GRAVEL MM 0437
6138	LATHROP, WILLIAM F. JR. & PATRICIA A.	51	22+438.2 RT				DRIVE	(T)							4.8m (15.7') PAVED MM 0437
			22+438.2 RT	22+497.1 RT			D & C	(T)							WATER & SEWER IF APPLICABLE
6139	CHAMPLAIN OIL COMPANY, INC.	51	22+462.5 LT	22+475.4 LT			UTIL	(P)	21						AERIAL; 226 SF
			22+468.2 LT	22+468.8 LT			INSTALL & MAIN.	(P)							GUY WIRES & ANCHOR
6140	CHAMPLAIN OIL COMPANY, INC.	51-52	22+475.3 LT	22+506.9 LT			UTIL	(P)	31						AERIAL; 334 SF
			22+475.4 LT	22+552.5 LT			D & C	(T)							WATER & SEWER IF APPLICABLE
			22+496.0 LT	22+497.6 LT			INSTALL	(T)							VERTICAL GRANITE CURB
			22+502.3 LT				DRIVE	(T)							9.1m (29.9') PAVED MM 0441
6141	JLB BRANDON ENTERPRISES, INC.	52	22+552.5 LT	22+637.3 LT			D & C	(T)							WATER & SEWER IF APPLICABLE
			22+591.2 LT	22+637.3 LT			UTIL	(P)	23						AERIAL; 248 SF
			22+622.7 LT	22+637.3 LT			CONST	(T)	26						INCL BARRIER FENCE & EC; 280 SF
6141A			22+555.502 LT	22+637.256 LT	1025		ALL R. T. & I.					BRANDON			(U.S. RTE. 7 HWY. EASE.) 0.25 Ac.

TABLE OF REVISIONS

REVISION NO.	SHEET NO.	DESCRIPTION	DATE

PLAN LEGEND

- EXISTING RIGHT-OF-WAY
- TAKING WITH ACCESS
- TAKING WITHOUT ACCESS
- CLEAR ZONE (CZ)
- PROPERTY LINE (P / L)
- TOE OF SLOPE
- TOP OF CUT
- SLOPE RIGHT (SR (P))
- CONSTRUCTION RIGHT (CONST. (T))
- PROJECT DEMARCATION FENCE (PDF)

(P) -PERMANENT
(T) -TEMPORARY
C&T -CLEARING & TRIMMING RIGHT
CUL. -CULVERT RIGHT
D&C -DISCONNECT & CONNECT
DIT. -DITCHING RIGHT
DR. -DRAINAGE RIGHT
DRIVE -DRIVE RIGHT
EC -EROSION CONTROL
SLOPE -SLOPE RIGHT
TPZ -TREE PROTECTION ZONE FENCE
UTIL -UTILITY EASEMENT

PROJECT NAME: **BRANDON**
PROJECT NUMBER: **NH 019-3(496)**

FILE NAME: zb008ROW6DetSht.xls
PROJECT LEADER: C. BEAN
DESIGNED BY: M. HALEY
R.O.W. DETAIL SHEET #15

PLOT DATE: 8/4/2016
DRAWN BY: S. GOODWIN
CHECKED BY: D. MUNRO
SHEET 29 OF 185

RIGHT - OF - WAY DETAIL SHEET

ISSUED FOR CONSTRUCTION

Metric

AREAS ARE IN SQUARE METERS UNLESS OTHERWISE NOTED

TABLE OF PROPERTY ACQUISITION

PARCEL NO.	PROPERTY OWNER	SHEET NO.	BEGINNING STATION	ENDING STATION	TAKE	REMAINDER	RIGHT			RECORDING DATA					REMARKS
					AREA ±	AREA ±	TYPE	(T)/(P)	AREA ±	TITLE	DATE	TOWN / CITY	BOOK	PAGE	
6142	REYNOLDS, JOHN M.	51-52	22+496.3 RT	22+592.5 RT			CUL., DIT. & DR.	(P)	247						INCL STORM. TREAT. CH. & EC; 2659 SF
			22+496.4 RT	22+530.0 RT			SLOPE	(P)	58						624 SF
			22+496.5 RT	22+506.1 RT			DETOUR	(T)	16						172 SF
			22+496.6 RT	22+592.6 RT			CONST	(T)	96						INCL PDF & TPZ; 1033 SF
			22+522.0 RT				REMOVE	(T)							GUY WIRES
			22+530.0 RT	22+592.6 RT			SLOPE	(T)	198						2131 SF
			22+567.0 RT				REMOVE	(T)							UTILITY POLE & GUY WIRES
6142A			22+555.220 RT	22+592.612 LT	467		ALL R. T. & I.					BRANDON			(U.S. RTE. 7 HWY. EASE.) 0.12 Ac.
6143	ELEMENTAL PARTNERS, LLC	52	22+635.7 LT	22+729.4 LT			UTIL	(P)	259						AERIAL; 2788 SF
	MELTZNER, CRAIG S. AND		22+635.9 LT	22+654.8 LT			CONST	(T)	58						INCL BARRIER FENCE & EC; 624 SF
	WALTER, ELAINE I.		22+639.0 LT	22+639.8 LT			INSTALL	(T)							WOVEN WIRE FENCE
	CO-TRUSTEES OF THE CRAIG S.		22+639.0 LT	22+647.4 LT			REMOVE	(T)							WOVEN WIRE FENCE
	MELTZNER AND ELAINE I. WALTER		22+641.4 LT	22+652.5 LT			DIT. & DR.	(P)	34						366 SF
	REVOCABLE TRUST U/T/A JANUARY 23, 1998		22+718.2 LT				INSTALL & MAIN.	(P)							GUY WIRES & ANCHOR
6143A			22+636.974 LT	22+679.657 LT	535		ALL R. T. & I.					BRANDON			(U.S. RTE. 7 HWY. EASE.) 0.13 Ac.
6144	NOT USED														
6145	NOPS DAIRY LLC	52	22+592.3 RT	22+625.2 RT			CUL., DIT. & DR.	(P)	86						INCL STORM. TREAT. CH. & EC; 926 SF
			22+592.5 RT	22+624.6 RT			SLOPE	(T)	30						323 SF
			22+592.6 RT	22+624.6 RT			CONST	(T)	32						INCL PDF & TPZ; 344 SF
			22+621.0 RT	22+629.3 RT			SLOPE	(T)	11						118 SF
			22+644.3 RT				REMOVE	(T)							GUY WIRES
6145A			22+592.330 RT	22+679.657 LT	1096		ALL R. T. & I.					BRANDON			(U.S. RTE. 7 HWY. EASE.) 0.27 Ac.
6146	NOT USED														
6147	CURTIS, JOAN M.	38,41	UNION 35+110.9 LT	UNION 35+111.4 LT			INSTALL & MAIN.	(P)							GUY WIRES & (2) ANCHORS
6148	NOT USED														
6149	WEIGAND-YUNCKER, KATHERINE K.	45	21+891.2 RT	21+899.7 RT			DRAINAGE SYSTEM	(P)	105						INCL CUL. & DIT.; 1130 SF
			21+893.0 RT	21+902.2 RT			CONST	(T)	41						INCL PDF.; 441 SF

TABLE OF REVISIONS

REVISION NO.	SHEET NO.	DESCRIPTION	DATE

PLAN LEGEND

- EXISTING RIGHT-OF-WAY
- TAKING WITH ACCESS
- TAKING WITHOUT ACCESS
- CLEAR ZONE (CZ)
- PROPERTY LINE (P / L)
- TOE OF SLOPE
- TOP OF CUT
- SLOPE RIGHT (SR (P))
- CONSTRUCTION RIGHT (CONST. (T))
- PROJECT DEMARCATION FENCE (PDF)

(P) -PERMANENT
(T) -TEMPORARY
C&T -CLEARING & TRIMMING RIGHT
CUL. -CULVERT RIGHT
D&C -DISCONNECT & CONNECT
DIT. -DITCHING RIGHT
DR. -DRAINAGE RIGHT
DRIVE -DRIVE RIGHT
EC -EROSION CONTROL
SLOPE -SLOPE RIGHT
TPZ -TREE PROTECTION ZONE FENCE
UTIL -UTILITY EASEMENT

PROJECT NAME: **BRANDON**
PROJECT NUMBER: **NH 019-3(496)**

FILE NAME: zb008ROW6DetSht.xls
PROJECT LEADER: C. BEAN
DESIGNED BY: M. HALEY
R.O.W. DETAIL SHEET #16

PLOT DATE: 8/4/2016
DRAWN BY: S. GOODWIN
CHECKED BY: D. MUNRO
SHEET 30 OF 185

ISSUED FOR CONSTRUCTION

VAOT Metric

CONSTRUCT DRIVES
20+786.4 RT (3.6 m WIDE, PAVED-RES.)
20+796.8 LT (16.4 m WIDE, PAVED-COMM.)

VERTICAL GRANITE CURB
20+791.8 - 20+815.0 RT

REMOVING TREES
REMOVING STUMPS
20+807.3 RT (S)

REMOVE & REPLACE PROPERTY MARKERS	
EXISTING	PROPOSED
BND 20+770.000 10.351m (33.96')LT	REMOVED UNDER NH 019-3(495)
BND 20+770.000 9.766m (32.04')RT	RETAIN EXISTING
IP 20+777.722 7.769m (25.49')LT	REMOVED UNDER NH 019-3(495)
BND 20+778.651 10.409m (34.15')LT	REMOVED UNDER NH 019-3(495)
BND 20+780.000 9.700m (31.82')RT	RETAIN EXISTING

VT STATE PLANE GRID N

6001
BRANDON FIRE DISTRICT NO.1
DISCONNECT & CONNECT (T)

6004

20+735.617
BEGIN APPROACH

20+778.000
END APPROACH
BEGIN PROJECT
NH 019-3(496)

NF BAKER, RICHARD A.
IRON PIN
P/L
FIRE STATION
FLAG POLE
GRAVEL
PAVED
GUY WIRE
32-I
32-I
STN.
20+660
20+680
US 7
20+700
20+720
20+740
20+760
20+780
20+800
GRASS ISLAND
AMERICAN LEGION
CONC. PAD
HANDICAP SIGN
GRANITE CURB
SHRUBS
GV
HYD.
DELIN.
GR.CURB
DELIN.(2)
SSMH
STN.
32
10" PERF. E&T
401
M. MAPLE
M. ELM
M. POPLAR
M. BASSWOOD
BASS
WOODS(2)
S/M. WALNUTS
S. SPRUCES
S.CEDARS(6)
LILAC
M. PINE
2 SWF
WOODS
M. MAPLES
WOODS/ LEDGE
MARBLE BND
BARB WIRE FENCE
PAVED DRIVE
BUILDING
FLAG POLE
GUY WIRE(3)
DETOUR (T)
INSTALL (T)
HANDICAP SIGN
HVCTRL
S.L.40
STATE HWY BEGINS
STATE HWY ENDS
S.L.35
UTIL(P) (WATER)
INSTALL (T)
INSTALL (T)
REMOVE (T)
DRIVE (T)
GUY WIRE
GUY POLE
GV(4)
SSMH
INSTALL (T)
INSTALL (T)
DISCONNECT & CONNECT (T)
INSTALL & MAIN. (P) ACQUIRED UNDER NH 019-3(495)
UTIL (P) ACQUIRED UNDER NH 019-3(495)
POT 20+777.617 BK
POT 20+778.000 AHD =
EQ. = -0.383 m
DISCONNECT & CONNECT (T)
IRON PIPE

547
BRANDON AMERICAN LEGION POST NO. 55, INC.

6002
BOSTON, MICHAEL T.

6003

BEGIN R.O.W. PROJECT
NH 019-3(496)
STA 20+728.317
10.058m (33.00') RT

MATCH LINE 20+815

NOTE
1. NOTE THAT REMOVAL OF SHRUBS AND SMALL THREES ARE NOTED FOR INFORMATION ONLY AND ARE INCIDENTAL TO THE CONTRACT.

LINES SHOWN ON THIS PLAN AS EXISTING PROPERTY LINES (P/L) ARE BELIEVED TO BE ACCURATE BUT SHOULD NOT BE RELIED UPON FOR PURPOSES UNRELATED TO THE STATE OF VERMONT AND THE TOWN OF BRANDON ACQUISITION OF LAND AND RIGHTS FOR THIS PROJECT

0 10 20 30
SCALE IN METERS

RIGHT-OF-WAY LAYOUT 1

PROJECT NAME: BRANDON
PROJECT NUMBER: NH 019-3(496)

FILE NAME: zb008s6-Row.dgn
PROJECT LEADER: C. BEAN
DESIGNED BY: M. HALEY
PLOT DATE: 8/4/2016
DRAWN BY: S. GOODWIN
CHECKED BY: D. MUNRO
SHEET 31 OF 185
SHEET 57 OF 601

ISSUED FOR CONSTRUCTION

CONSTRUCT DRIVES
20+821.5 - 21+871.7 LT (50.2 m WIDE, PAVED - COMM.)
20+834.4 RT (10.9 m WIDE, PAVED - COMM.)
20+865.8 RT (10.5 m WIDE, PAVED - COMM.)
20+882.4 LT (4.8 m WIDE, GRAVEL - RES.)
20+904.4 LT (4.8 m WIDE, PAVED - RES.)
20+923.5 LT (4.8 m WIDE, PAVED - RES.)
40+021.9 RT (7.2 m WIDE, PAVED - COMM.)
40+037.8 RT (3.6 m WIDE, PAVED - RES.)

PORTLAND CEMENT CONCRETE SIDEWALK, 125 mm
20+871.7 - 20+950.0 LT
20+885.2 - 20+887.7 LT (0.6 m WIDE, SLOPE= 0.0%)
20+915.1 LT (0.7 m WIDE, SLOPE=6.0%)
20+946.6 LT (1.5 m WIDE, SLOPE=1.1%)
40+052.4 LT - 20+950.0 RT

CONSTRUCT SIDEWALK RAMP W/ DETECTABLE WARNING SURFACE (YELLOW)
20+900.5 LT (TYPE 6)
20+901.0 RT (TYPE 6)

REMOVE & REPLACE PROPERTY MARKERS	
EXISTING	PROPOSED
IP 20+820.770 9.926m (32.57')RT	IP 20+820.930 9.429m (30.94')RT
BND 20+880.041 9.038m (29.65')RT	BND 20+880.041 9.038m (29.65')RT
BND 20+900.000 11.212m (36.78')LT	RETAIN EXISTING
BND 20+900.880 8.900m (29.20')RT	BND 20+900.880 8.900m (29.20')RT
IP 40+060.000 9.120m (29.92')LT	RETAIN EXISTING

VT STATE PLANE GRID

BITUMINOUS CONCRETE SIDEWALK
40+035.1 LT (1.3 m WIDE, SLOPE=1.0%)
40+044.9 LT (1.2 m WIDE, SLOPE=0.5%)
40+048.3 RT (1.0 m WIDE, SLOPE=20.0%)

SPECIAL PROVISION (REMOVE AND RESET STONE WALKWAY)
20+928.4 LT (0.6 m WIDE, SLOPE=5.0%)

CONSTRUCT CONCRETE STEPS
20+928.4 LT (0.9 m WIDE, 2 RISERS)
20+946.6 LT (1.5 m WIDE, 2 RISERS)

SPECIAL PROVISION (METAL HAND RAILING)
20+928.2 LT
20+928.8 LT
20+946.0 LT
20+947.2 LT

REMOVING AND RESETTING FENCE
20+887.7 - 20+902.1 LT
20+938.8 LT

VERTICAL GRANITE CURB
20+815.0 - 20+828.0 RT
20+840.8 - 20+859.4 RT
20+872.0 - 20+879.8 LT
20+872.1 - 40+018.3 RT
20+885.1 - 20+901.7 LT
20+886.0 - 20+901.0 LT (BEHIND SWLK)
20+907.1 - 20+920.8 LT
20+926.1 - 20+950.0 LT
40+025.8 - 40+035.1 RT
40+030.0 LT - 20+950.0 RT
40+030.0 - 40+040.0 LT (TAPER REVEAL FROM 175 TO 100 mm)
40+040.0 - 40+053.3 LT (100 mm REVEAL)
40+040.5 - 40+052.0 RT

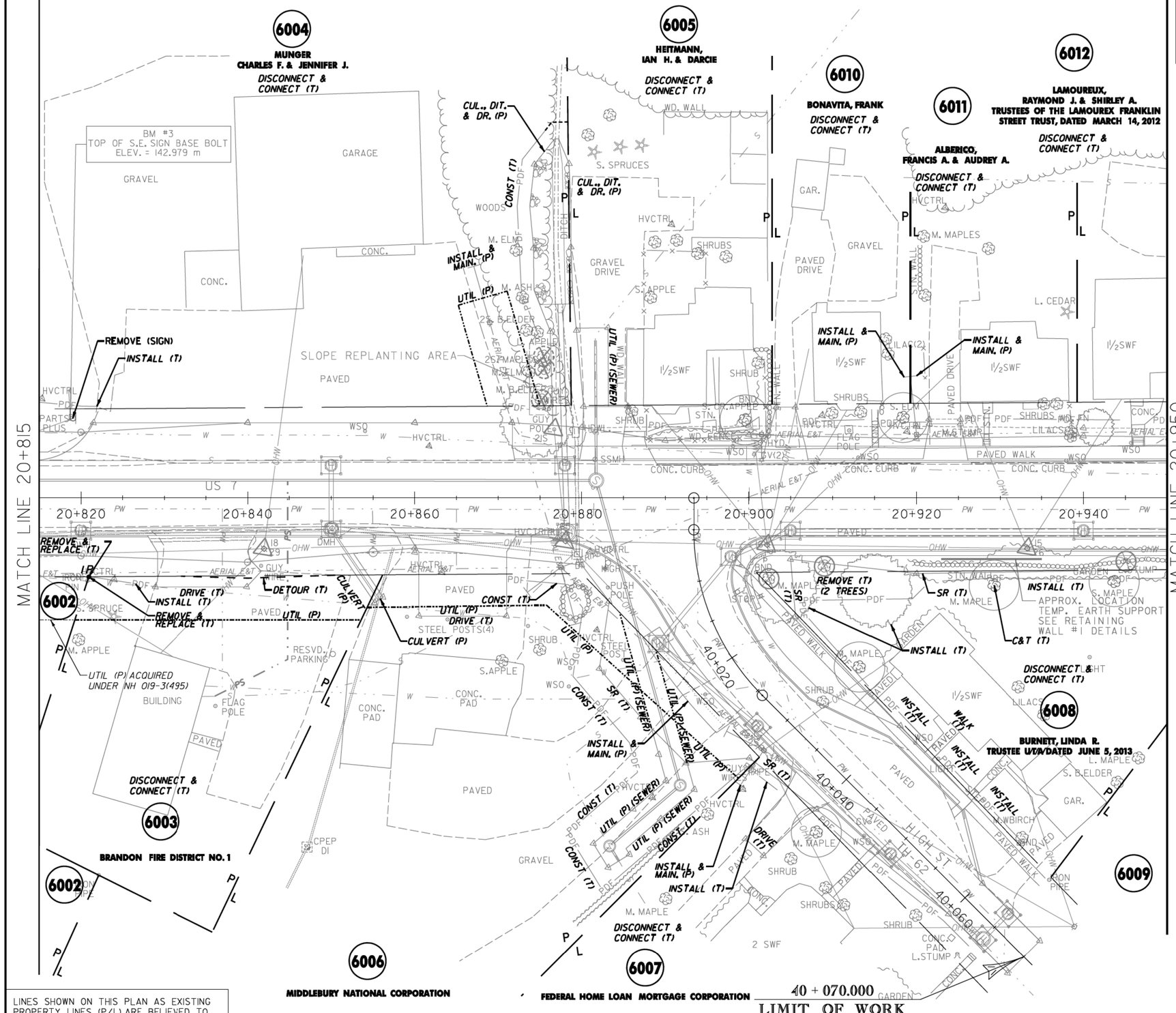
BITUMINOUS CONCRETE GUTTERS AND TRAFFIC ISLANDS
40+013.5 - 40+018.4 RT (2.4 m GUTTER)

REBUILT STONE MASONRY (RESET STONE WALL)
20+902.5 LT

CONSTRUCT STONE WALL (SEE RETAINING WALL #1 DETAILS)
40+016.0 LT - 20+950.0 RT

REMOVING TREES
REMOVING STUMPS
20+902.4 RT (M)
20+909.0 RT (M)
20+945.1 RT (L) (STUMP)

REMOVING SHRUBS
20+938.5 LT
40+031.5 LT



LINES SHOWN ON THIS PLAN AS EXISTING PROPERTY LINES (P/L) ARE BELIEVED TO BE ACCURATE BUT SHOULD NOT BE RELIED UPON FOR PURPOSES UNRELATED TO THE STATE OF VERMONT AND THE TOWN OF BRANDON ACQUISITION OF LAND AND RIGHTS FOR THIS PROJECT

0 10 20 30
SCALE IN METERS

RIGHT-OF-WAY LAYOUT 2

PROJECT NAME: BRANDON
PROJECT NUMBER: NH 019-3(496)

FILE NAME: zb008s6-Row.dgn
PROJECT LEADER: C. BEAN
DESIGNED BY: M. HALEY
PLOT DATE: 11/4/2016
DRAWN BY: S. GOODWIN
CHECKED BY: D. MUNRO
SHEET 32 OF 185
SHEET 58 OF 601

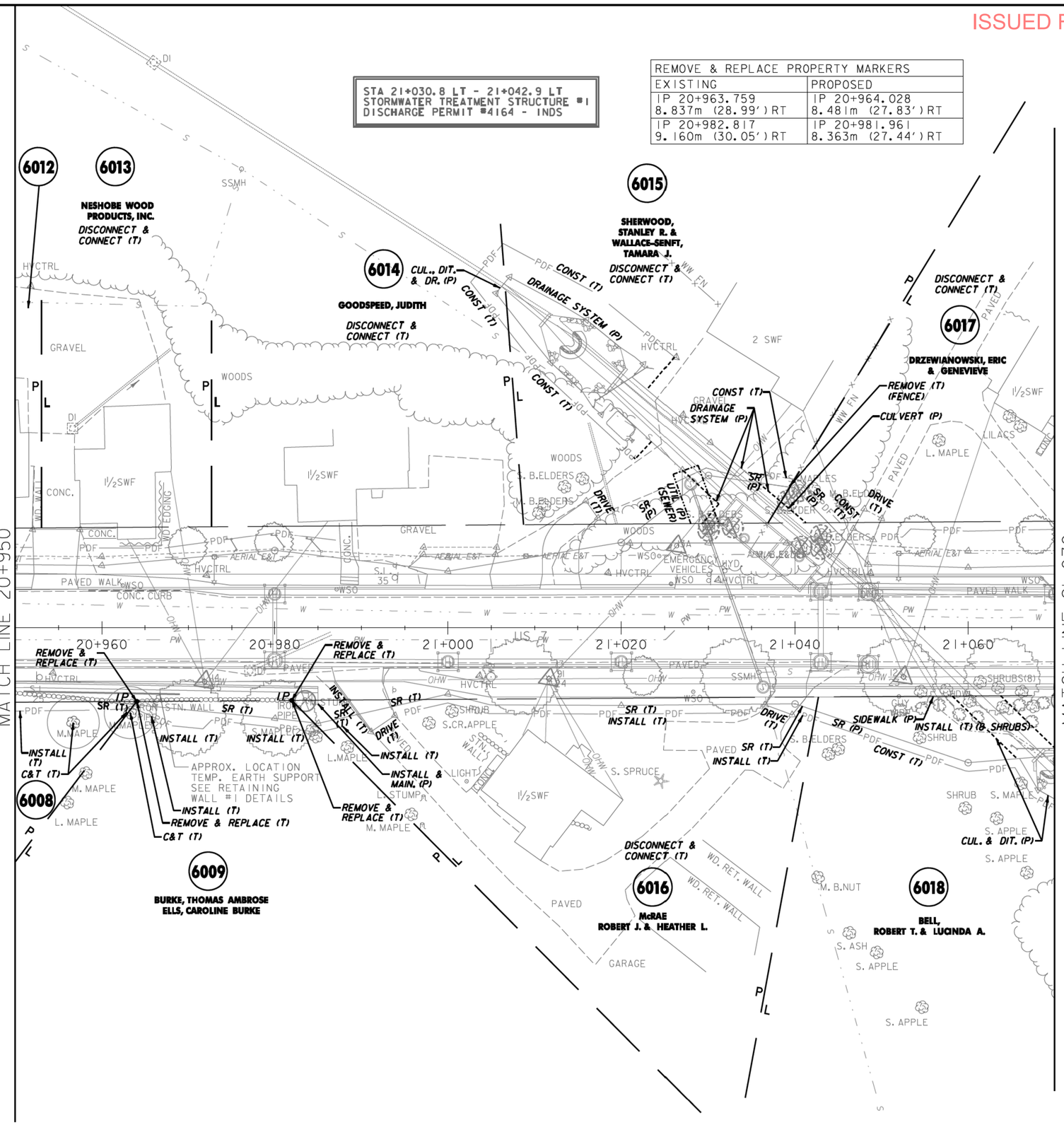
ISSUED FOR CONSTRUCTION

VAOT Metric

STA 21+030.8 LT - 21+042.9 LT
STORMWATER TREATMENT STRUCTURE #1
DISCHARGE PERMIT #4164 - INDS

REMOVE & REPLACE PROPERTY MARKERS	
EXISTING	PROPOSED
IP 20+963.759 8.837m (28.99')RT	IP 20+964.028 8.481m (27.83')RT
IP 20+982.817 9.160m (30.05')RT	IP 20+981.961 8.363m (27.44')RT

VT STATE PLANE GRID



CONSTRUCT DRIVES
20+954.6 LT (4.8 m WIDE, CONC. - RES.)
20+989.6 RT (5.4 m WIDE, PAVED - RES.)
21+001.2 LT (7.2 m WIDE, GRAVEL - RES.)
21+013.0 LT (4.2 m WIDE, GRAVEL - RES.)
21+030.0 LT (7.2 m WIDE, GRAVEL - COMM.)
21+039.2 RT (4.2 m WIDE, PAVED - RES.)
21+046.4 LT (4.2 m WIDE, PAVED - RES.)

PORTLAND CEMENT CONCRETE SIDEWALK, 125 mm
20+950.0 - 21+070.0 RT
20+950.0 - 21+024.9 LT
21+035.1 - 21+070.0 LT

PORTLAND CEMENT CONCRETE SIDEWALK, 200 mm
21+024.9 - 20+035.1 LT

WOOD BRACE FOR WOVEN WIRE FENCE
21+039.3 LT

REMOVAL OF EXISTING FENCE
21+034.6 - 21+039.3 LT

VERTICAL GRANITE CURB
20+950.0 - 20+951.9 LT
20+950.0 - 20+986.6 RT
20+957.3 - 20+997.4 LT
20+987.0 - 20+991.2 RT (DRIVE)
20+992.5 - 21+036.6 RT
21+005.1 - 21+010.6 LT
21+015.4 - 21+026.1 LT
21+033.9 - 21+043.7 LT
21+041.9 - 21+070.0 RT
21+049.1 - 21+070.0 LT

SPECIAL PROVISION (FIELDSTONE WALL)
20+950.0 - 20+985.0 RT (SEE RETAINING WALL #1 DETAILS)

REMOVING TREES
REMOVING STUMPS
20+983.5 RT (M) (STUMP)

REMOVING SHRUBS
21+054.4 RT
21+054.5 RT
21+057.5 RT
21+060.2 RT
21+061.4 RT
21+063.5 RT
21+064.0 RT
21+066.2 RT
21+067.5 RT

LINES SHOWN ON THIS PLAN AS EXISTING PROPERTY LINES (P/L) ARE BELIEVED TO BE ACCURATE BUT SHOULD NOT BE RELIED UPON FOR PURPOSES UNRELATED TO THE STATE OF VERMONT AND THE TOWN OF BRANDON ACQUISITION OF LAND AND RIGHTS FOR THIS PROJECT

0 10 20 30
SCALE IN METERS

RIGHT-OF-WAY LAYOUT 3

PROJECT NAME: BRANDON
PROJECT NUMBER: NH 019-3(496)

FILE NAME: zb008s6-Row.dgn
PROJECT LEADER: C. BEAN
DESIGNED BY: M. HALEY
PLOT DATE: 8/4/2016
DRAWN BY: S. GOODWIN
CHECKED BY: D. MUNRO
SHEET 33 OF 185
SHEET 59 OF 601

ISSUED FOR CONSTRUCTION

VAOT Metric

REMOVE & REPLACE PROPERTY MARKERS	
EXISTING	PROPOSED
BND 21+079.643 7.717m (25.32')RT	BND 21+079.643 7.716 (25.31')RT
IP 21+103.646 7.666m (25.15')RT	REMOVE
BND 21+116.129 11.257m (36.93')RT	RETAIN EXISTING
BND 21+117.501 9.154m (30.03')LT	BND 21+117.501 9.154m (30.03')LT

REMOVE & REPLACE PROPERTY MARKERS	
EXISTING	PROPOSED
IP 21+119.098 9.512m (31.21')LT	IP 21+119.231 9.315m (30.56')LT
IP 21+132.630 8.595m (28.20')RT	REMOVE
IP 21+164.421 9.338m (30.64')RT	REMOVE
IP 21+185.592 10.098m (33.13')LT	IP 21+185.737 9.881m (32.42')LT

VT STATE PLANE GRID N

MATCH LINE 21+070

MATCH LINE 21+210

6017 LILAC

6018 WET AREA, STREAM, WOODS, CONC. PAD, GAR.

6019 BELL, ROBERT T. & LUCINDA A.

6020 KENT, ROBIN RODDA

6021 MILOT, NORMAN E. & GINETTE

6022 FARNSWORTH, FRANCIS & DORIS

6023 LEGAULT, NORMAN A. & ETHIER, RALPH R.

6024 FORREST, DAVID A. & RHODA P.

6025 GEARWAR, JANICE W.

6026 WILLIAMS, HELEN L

6027 STANLEY, GARY C.

6028

US 7

TRAV. PT. #2
VTGS DISK IN CONC. MON.
"GRIFFIN 1997"

REMOVING TREES
REMOVING STUMPS
21+070.8 RT (M)
21+071.1 RT (M) (STUMP)
21+076.7 RT (S)
21+082.1 RT (M)
21+098.1 LT (S)
21+115.3 LT (M)
21+209.1 LT (S)

REMOVING SHRUBS
21+081.9 RT
21+083.5 RT

CONSTRUCT DRIVES
21+075.0 LT (4.2 m WIDE, PAVED-RES.)
21+092.3 RT (5.1 m WIDE, GRAVEL-RES.)
21+104.8 LT (4.5 m WIDE, PAVED-RES.)
21+117.9 RT (4.8 m WIDE, PAVED-RES.)
21+135.1 RT (3.6 m WIDE, PAVED-RES.)
21+175.5 LT (5.8 m WIDE, PAVED-RES.)
21+188.4 RT (3.6 m WIDE, GRAVEL-RES., PAVE TO SWLK)
21+200.8 LT (3.6 m WIDE, PAVED RES.)
21+203.5 RT (16.0 m WIDE, PAVED COMM.)

PORTLAND CEMENT CONCRETE SIDEWALK, 125 mm
21+070.0 - 21+210.0 LT
21+070.0 - 21+194.0 RT
21+103.1 RT (0.9 m WIDE, SLOPE=3.0%)
21+147.7 RT (0.5 m WIDE, SLOPE=4.0%)

PORTLAND CEMENT CONCRETE SIDEWALK, 200 mm
21+194.0 - 21+210.0 RT

BITUMINOUS CONCRETE SIDEWALK
21+110.4 LT (1.5 m WIDE, SLOPE=1.0%)
21+127.6 RT (0.8 m WIDE, SLOPE=6.0%)
21+181.0 RT (0.8 m WIDE, SLOPE=1.8%)
21+192.4 LT (0.9 m WIDE, SLOPE=3.0%)

SPECIAL PROVISION (REMOVE AND RESET BRICK WALKWAY)
21+143.7 RT (1.1 m WIDE, SLOPE=6.1%)

CONSTRUCT CONCRETE STEPS
21+103.1 RT (0.9 m WIDE, 3 RISERS)
21+110.4 LT (1.5 m WIDE, 3 RISERS)

SPECIAL PROVISION (METAL HAND RAILING)
21+102.8 RT
21+103.4 RT
21+109.8 LT
21+111.1 LT

REMOVAL OF EXISTING FENCE
21+095.3 LT - 21+099.9 LT

REMOVING AND RESETTING FENCE
21+133.2 RT

VERTICAL GRANITE CURB
21+070.0 - 21+089.6 RT
21+070.0 - 21+072.3 LT
21+077.6 - 21+102.1 LT
21+095.0 - 21+115.3 RT
21+108.2 - 21+171.8 LT
21+120.4 - 21+132.5 RT
21+137.8 - 21+185.7 RT
21+181.6 - 21+198.1 LT
21+190.2 - 21+195.5 RT (ISLAND)
21+191.0 - 21+194.6 RT
21+203.5 - 21+210.0 LT

REMOVING AND RESETTING CURB
21+192.0 - 21+193.0 LT (MARBLE STEP BEHIND SWLK, 100 REVEAL)

LINES SHOWN ON THIS PLAN AS EXISTING PROPERTY LINES (P/L) ARE BELIEVED TO BE ACCURATE BUT SHOULD NOT BE RELIED UPON FOR PURPOSES UNRELATED TO THE STATE OF VERMONT AND THE TOWN OF BRANDON ACQUISITION OF LAND AND RIGHTS FOR THIS PROJECT

0 10 20 30
SCALE IN METERS

RIGHT-OF-WAY LAYOUT 4

PROJECT NAME: BRANDON
PROJECT NUMBER: NH 019-3(496)

FILE NAME: zb008s6-Row.dgn
PROJECT LEADER: C. BEAN
DESIGNED BY: M. HALEY
PLOT DATE: 12/8/2016
DRAWN BY: S. GOODWIN
CHECKED BY: D. MUNRO
SHEET 34 OF 185

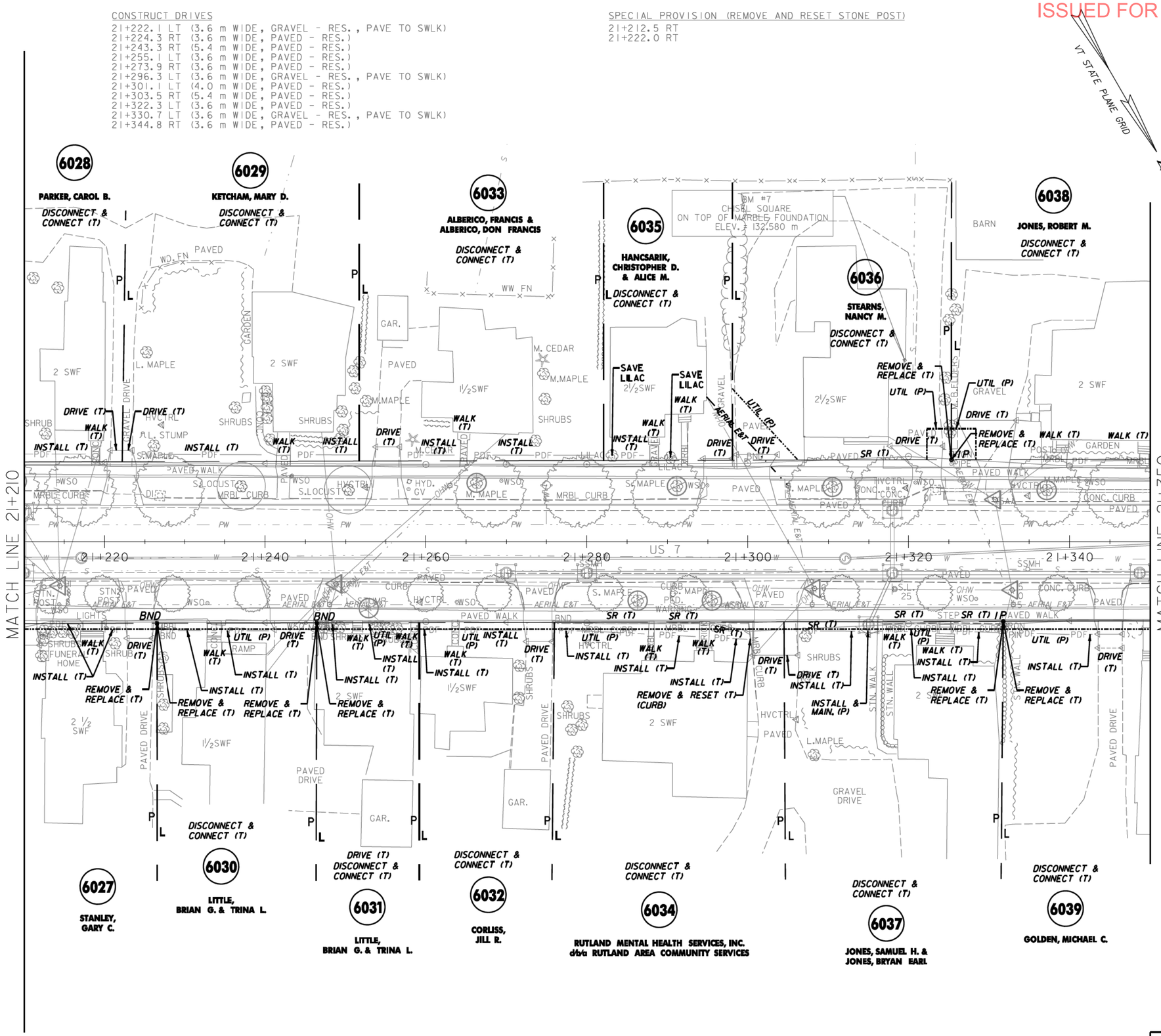
SHEET 60 OF 601

ISSUED FOR CONSTRUCT

VAOT Metric

CONSTRUCT DRIVES
21+222.1 LT (3.6 m WIDE, GRAVEL - RES., PAVE TO SWLK)
21+224.3 RT (3.6 m WIDE, PAVED - RES.)
21+243.3 RT (5.4 m WIDE, PAVED - RES.)
21+255.1 LT (3.6 m WIDE, PAVED - RES.)
21+273.9 RT (3.6 m WIDE, PAVED - RES.)
21+296.3 LT (3.6 m WIDE, GRAVEL - RES., PAVE TO SWLK)
21+301.1 LT (4.0 m WIDE, PAVED - RES.)
21+303.5 RT (5.4 m WIDE, PAVED - RES.)
21+322.3 LT (3.6 m WIDE, PAVED - RES.)
21+330.7 LT (3.6 m WIDE, GRAVEL - RES., PAVE TO SWLK)
21+344.8 RT (3.6 m WIDE, PAVED - RES.)

SPECIAL PROVISION (REMOVE AND RESET STONE POST)
21+212.5 RT
21+222.0 RT



REMOVE & REPLACE PROPERTY MARKERS	
EXISTING	PROPOSED
BND 21+226.509 9.966m (32.70') RT	BND 21+226.510 10.143m (33.28') RT
BND 21+246.412 9.905m (32.50') RT	BND 21+246.412 10.097m (33.13') RT
BND 21+275.937 10.029m (32.90') RT	BND 21+275.937 10.029m (32.90') RT
BND 21+299.760 10.144m (33.28') LT	BND 21+299.760 10.144m (33.28') LT
IP 21+325.313 9.696m (31.81') LT	IP 21+325.314 10.210m (33.50') LT
IP 21+331.754 9.965m (32.69') RT	IP 21+331.755 9.901m (32.48') RT

PORTLAND CEMENT CONCRETE SIDEWALK, 125 mm
21+210.0 - 21+350.0 LT
21+213.0 - 21+350.0 RT
21+218.9 LT (1.0 m WIDE, SLOPE=4.0%)
21+233.7 RT (1.8 m WIDE, SLOPE=6.0%)
21+258.6 RT (0.9 m WIDE, SLOPE=1.0%)
21+263.7 RT (0.9 m WIDE, SLOPE=2.0%)

PORTLAND CEMENT CONCRETE SIDEWALK, 200 mm
21+210.0 - 21+213.0 RT

BITUMINOUS CONCRETE SIDEWALK
21+218.6 RT (2.3 m WIDE, SLOPE=5.0%)
21+242.3 LT (1.7 m WIDE, SLOPE=6.0%)
21+251.5 RT (1.2 m WIDE, SLOPE=9.0%)
21+264.7 LT (0.8 m WIDE, SLOPE=-2.0%)
21+288.4 LT (1.1 m WIDE, SLOPE=-3.6%)

SPECIAL PROVISION
(REMOVE AND RESET STONE WALKWAY)
21+292.1 LT (0.7 m WIDE, SLOPE=-4.0%)
21+316.4 RT (0.7 m WIDE, SLOPE=8.0%)
21+324.5 RT (1.9 m WIDE, SLOPE=4.4%)
21+338.1 LT (3.0 m WIDE, SLOPE=-7.0%)
21+349.3 LT (1.1 m WIDE, SLOPE=-5.0%)

SPECIAL PROVISION (BRICK PAVING)
21+294.6 RT (1.3 m WIDE, SLOPE=0.0%)

SPECIAL PROVISION (STONE WALKWAY)
21+288.0 RT (0.6 m WIDE, SLOPE=-2.0%)

CONSTRUCT CONCRETE STEPS
21+324.5 RT (1.5 m WIDE, 2 RISERS)

SPECIAL PROVISION (METAL HAND RAILING)
21+323.9 RT
21+325.2 RT

VERTICAL GRANITE CURB
21+210.0 - 21+219.5 LT
21+212.4 - 21+221.7 RT
21+224.8 - 21+252.5 LT
21+227.0 - 21+239.4 RT
21+247.1 - 21+271.2 RT
21+257.8 - 21+293.6 LT
21+276.6 - 21+299.6 RT
21+302.8 - 21+320.4 LT (SWLK)
21+303.6 - 21+319.6 LT
21+307.3 - 21+342.2 RT
21+324.1 - 21+328.8 LT (SWLK)
21+324.9 - 21+328.0 LT
21+332.5 - 21+350.0 LT (SWLK)
21+333.3 - 21+350.0 LT
21+347.5 - 21+350.0 RT

REMOVING AND RESETTING CURB
21+276.3 - 21+300.8 RT (BEHIND SWLK)
21+300.6 - 21+300.8 RT (DRIVE)
21+316.9 - 21+331.8 RT (BEHIND SWLK)

REMOVING TREES
REMOVING STUMPS
21+252.9 RT (L) (STUMP)
21+266.3 LT (M)
21+286.3 RT (S)
21+291.2 LT (S)
21+295.5 RT (S)
21+310.5 LT (S)
21+337.2 LT (M)

LINES SHOWN ON THIS PLAN AS EXISTING PROPERTY LINES (P/L) ARE BELIEVED TO BE ACCURATE BUT SHOULD NOT BE RELIED UPON FOR PURPOSES UNRELATED TO THE STATE OF VERMONT AND THE TOWN OF BRANDON ACQUISITION OF LAND AND RIGHTS FOR THIS PROJECT

0 10 20 30
SCALE IN METERS

RIGHT-OF-WAY LAYOUT 5

PROJECT NAME: BRANDON
PROJECT NUMBER: NH 019-3(496)

FILE NAME: zb008s6-Row.dgn
PROJECT LEADER: C. BEAN
DESIGNED BY: M. HALEY
PLOT DATE: 8/4/2016
DRAWN BY: S. GOODWIN
CHECKED BY: D. MUNRO
SHEET 35 OF 185

SHEET 61 OF 601

ISSUED FOR CONSTRUCTION

VAOT Metric

CONSTRUCT DRIVES
21+364.2 LT (3.6 m WIDE, GRAVEL - RES., PAVE TO SWLK)
21+379.7 LT (3.6 m WIDE, PAVED - RES.)
21+390.3 RT (3.0 m WIDE, GRAVEL - RES., PAVE TO SWLK)
21+395.3 RT (3.6 m WIDE, PAVED - RES.)
21+401.4 LT (3.6 m WIDE, PAVED - RES.)
36+078.4 LT (7.2 m WIDE, PAVED - RES.)
36+099.8 RT (3.6 m WIDE, PAVED - RES.)

PORTLAND CEMENT CONCRETE SIDEWALK, 125 mm
21+350.0 - 21+410.0 LT
21+350.0 - 21+410.0 RT
21+350.5 RT (2.7 m WIDE, SLOPE= 2.0%)
36+070.0 - 36+101.6 RT
36+076.0 RT (1.3 m WIDE, SLOPE= 0.7%)

BITUMINOUS CONCRETE SIDEWALK
21+369.9 LT (1.0 m WIDE, SLOPE=-3.0%)
21+380.9 RT (1.3 m WIDE, SLOPE= 7.0%)
21+389.3 LT (3.2 m WIDE, SLOPE= 1.0%)
36+087.9 RT (1.3 m WIDE, SLOPE= 3.3%)

SPECIAL PROVISION (REMOVE AND RESET BRICK WALKWAY)
21+404.4 RT (1.2 m WIDE, SLOPE=4.0%)

REMOVING TREES
21+374.4 LT (M)
21+391.6 LT (S)
36+076.9 RT (S)

REMOVING SHRUBS
36+070.8 RT

VERTICAL GRANITE CURB
21+350.0 - 21+361.5 LT
21+350.0 - 21+362.3 LT (SWLK)
21+350.0 - 21+388.1 RT
21+366.0 - 21+377.8 LT (SWLK)
21+366.8 - 21+377.0 LT
21+381.5 - 21+399.5 LT (SWLK)
21+382.3 - 21+398.7 LT
21+398.1 - 21+410.0 RT
21+403.2 - 21+410.0 LT
36+070.0 - 36+073.6 LT
36+083.2 - 36+110.0 LT
36+102.5 - 36+110.0 RT

VT STATE PLANE GRID N

REMOVE & REPLACE PROPERTY MARKERS	
EXISTING	PROPOSED
IP 21+398.448 8.95m (29.37') LT	REMOVE
IP 36+097.632 18.933m (62.12') RT	REMOVE
BND 36+120.000 20.927m (68.66') LT	RETAIN EXISTING
BND 36+120.000 19.34m (63.45') RT	RETAIN EXISTING

MATCH LINE 21+410

MATCH LINE 21+350

MATCH LINE 36+070

6043 ESTABROOK, PENNY E.

6042 O'NEILL, RONALD J. & DONNA M. DISCONNECT & CONNECT (T)

6041 CABOT, JANE DISCONNECT & CONNECT (T)

6038

6044 HATCHER, STEPHEN K. DISCONNECT & CONNECT (T)

6045 THE BRANDON FREE PUBLIC LIBRARY DISCONNECT & CONNECT (T)

6050 GATOS, PAMELA & BRAINERD, PETER D. DISCONNECT & CONNECT (T)

6040 HEALY, LINDA J.

6039 GOLDEN, MICHAEL C.

MICHALSKI, MATTHEW L. & PATRICIA G.

6054 REMANIAK, DONALD G., REMANIAK, CRESCENT D.

6053 KIMBLE, WARREN L. & LORRAINE P. DISCONNECT & CONNECT (T)

6052 ANDERSON, HELYN A. DISCONNECT & CONNECT (T)

36 + 120.000
LIMIT OF WORK

(SEE ITEM DETAIL SHEETS FOR LIMITS OF BRICK PAVING)

0 10 20 30
SCALE IN METERS

LINES SHOWN ON THIS PLAN AS EXISTING PROPERTY LINES (P/L) ARE BELIEVED TO BE ACCURATE BUT SHOULD NOT BE RELIED UPON FOR PURPOSES UNRELATED TO THE STATE OF VERMONT AND THE TOWN OF BRANDON ACQUISITION OF LAND AND RIGHTS FOR THIS PROJECT

RIGHT-OF-WAY LAYOUT 6

PROJECT NAME: BRANDON
PROJECT NUMBER: NH 019-3(496)

FILE NAME: zb008s6-Row.dgn
PROJECT LEADER: C. BEAN
DESIGNED BY: M. HALEY

PLOT DATE: 8/4/2016
DRAWN BY: S. GOODWIN
CHECKED BY: D. MUNRO
SHEET 36 OF 185

SHEET 62 OF 601

ISSUED FOR CONSTRUCTION

VAOT Metric

6047A

(1) 21+493.966
9.151m (30.02') LT

(2) 10.807m (35.46')

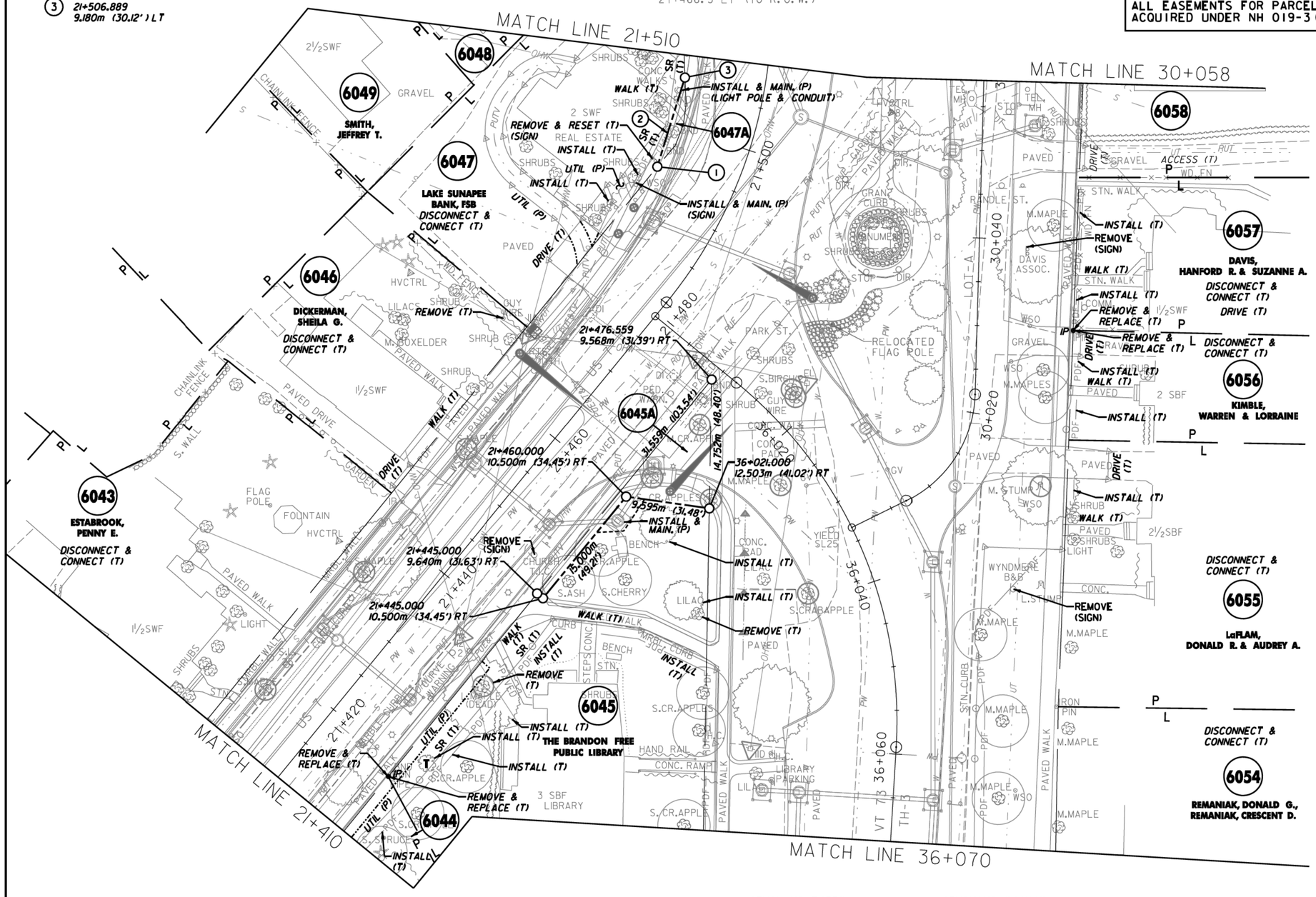
(3) 21+506.889
9.180m (30.12') LT

CONSTRUCT DRIVES
21+445.6 LT (4.8 m WIDE, PAVED - RES.)
21+478.3 LT (6.0 m WIDE, PAVED - COMM.)
30+016.1 RT (3.6 m WIDE, PAVED - RES.)
30+028.4 RT (3.3 m WIDE, GRAVEL - RES., PAVE TO SWLK)
30+049.5 RT (3.6 m WIDE, GRAVEL - RES., PAVE TO SWLK)

REMOVAL OF EXISTING FENCE
21+466.3 LT (TO R.O.W.)

VT STATE PLANE GRID N

ALL EASEMENTS FOR PARCEL 6058
ACQUIRED UNDER NH 019-3(496) C/I



PORTLAND CEMENT CONCRETE SIDEWALK, 125 mm
21+410.0 - 21+473.6 LT
21+410.0 RT - 36+070.0 RT
21+443.3 RT - 36+044.1 RT (LIBRARY)
21+483.4 - 21+510.0 LT
21+502.3 LT (0.7 m WIDE, SLOPE=5.0%)
30+012.9 - 30+058.0 RT
30+035.5 RT (1.1 m WIDE, SLOPE=2.6%)
36+012.7 LT (RAMP)
36+062.0 - 36+062.7 RT (CONNECTOR)
36+062.7 RT (1.2 m WIDE, SLOPE=0.8%)

PORTLAND CEMENT CONCRETE SIDEWALK, 200 mm
21+473.6 - 21+483.4 LT

BITUMINOUS CONCRETE SIDEWALK
21+423.4 LT (1.4 m WIDE, SLOPE=3.0%)
21+437.9 RT (0.7 m WIDE, SLOPE=0.5%)
21+454.5 LT (4.8 m WIDE, SLOPE=-1.0%)
30+014.3 RT (1.2 m WIDE, SLOPE=5.0%)
30+022.9 RT (1.1 m WIDE, SLOPE=1.0%)

CONSTRUCT SIDEWALK RAMP W/ DETECTABLE WARNING SURFACE (YELLOW)
21+465.6 LT (TYPE 2)
36+012.2 RT (TYPE 6)
36+012.7 LT (TYPE 1)

SPECIAL PROVISION (REMOVE AND RESET STONE WALKWAY)
21+413.9 LT (1.0 m WIDE, SLOPE=3.5%)

VERTICAL GRANITE CURB
21+410.0 - 21+443.0 LT
21+410.0 - 36+057.4 RT
21+426.6 - 21+443.2 LT (SWLK)
21+448.1 - 21+462.0 LT (SWLK)
21+448.3 - 21+474.9 LT
21+482.1 - 21+510.0 LT
30+014.0 RT - 36+070.0 LT
30+018.4 - 30+025.9 RT
30+031.0 - 30+046.8 RT
30+052.2 - 30+058.0 RT
30+058.0 LT - 21+510.0 RT

REMOVING AND RESETTING CURB
21+443.9 RT - 36+041.9 RT (LIBRARY)
30+037.0 - 30+042.3 LT (MONUMENT, MRBL. EDGING)

SPECIAL PROVISION (IMPRINTED/COLORIZED SURFACE)
21+431.5 -21+464.5 C/L
21+465.6 LT/RT
36+012.5 LT/RT

REMOVE & REPLACE PROPERTY MARKERS	
EXISTING	PROPOSED
IP 21+418.090 9.550m (31.33') RT	IP 21+418.027 9.702m (31.83') RT
BND 21+418.937 9.700m (31.82') RT	BND 21+418.937 9.700m (31.82') RT
IP 21+443.317 8.915m (29.25') LT	REMOVE
BND 21+476.559 9.568m (31.39') RT	REMOVE
BND 21+497.593 8.178m (26.83') LT	REMOVE
BND 21+500.566 8.064m (26.46') LT	REMOVE
BND 21+503.244 8.397m (27.55') LT	REMOVE
IP 30+029.737 10.824m (35.51') RT	IP 30+029.739 11.026m (36.17') RT

REMOVING TREES
21+416.8 LT (S)
21+432.9 RT (L)
21+434.4 LT (S)
21+452.6 LT (S)
21+463.6 RT (S)
30+015.9 RT (M) (STUMP)
36+011.8 RT (M)
36+017.0 LT (S)
36+017.9 LT (S)
36+020.1 RT (S)
36+024.6 RT (M)
36+038.7 RT (S)

REMOVING SHRUBS
21+494.6 RT
21+495.3 RT
21+497.2 RT
21+497.7 RT
21+499.2 LT
30+052.1 RT
30+053.4 RT
36+011.3 LT
36+013.9 LT
36+014.8 LT
36+034.4 RT
36+035.1 RT
36+063.1 RT

(SEE ITEM DETAIL SHEETS FOR LIMITS OF BRICK PAVING)

0 10 20 30
SCALE IN METERS

LINES SHOWN ON THIS PLAN AS EXISTING PROPERTY LINES (P/L) ARE BELIEVED TO BE ACCURATE BUT SHOULD NOT BE RELIED UPON FOR PURPOSES UNRELATED TO THE STATE OF VERMONT AND THE TOWN OF BRANDON ACQUISITION OF LAND AND RIGHTS FOR THIS PROJECT

RIGHT-OF-WAY LAYOUT 7

PROJECT NAME: BRANDON
PROJECT NUMBER: NH 019-3(496)

FILE NAME: zb008s6-Row.dgn
PROJECT LEADER: C. BEAN
DESIGNED BY: M. HALEY
PLOT DATE: 8/4/2016
DRAWN BY: S. GOODWIN
CHECKED BY: D. MUNRO
SHEET 37 OF 185
SHEET 63 OF 601

ISSUED FOR CONSTRUCTION

VAOT Metric

STATE PLANE GRID N

SPECIAL PROVISION (REMOVE PROPERTY MARKER)
(USGS BENCHMARK , RETURN DISK TO VTRANS)
2I+600.3 RT

SPECIAL PROVISION (RECONSTRUCT FOUNTAIN) (SEE MISC. DETAILS)
2I+574.3 RT
30+114.3 LT

SPECIAL PROVISION
(IMPRINTED/COLORIZED SURFACE)
2I+517.2 RT-2I+533.3 LT
2I+549.1 - 2I+553.6 LT
2I+574.5 LT/RT
2I+595.7 C/L-2I+613.2 RT
30+105.3 - 30+109.1 RT
34+010.8 LT/RT
35+011.5 LT/RT

SPECIAL PROVISION (REINFORCED PORTLAND CEMENT CONCRETE SIDEWALK, 200 mm)
(RAMP/RAISED CROSSWALK)
30+065.8 LT/RT
30+116.9 LT - 30+120.4 RT

CONSTRUCT DRIVES
2I+527.1 LT (7.0 m WIDE, PAVED - COMM.)
30+111.1 RT (4.0 m WIDE, PAVED - RES.)
34+058.9 LT (3.6 m WIDE, PAVED - RES.)
34+068.4 RT (COLD PLANE/OVERLAY 50 mm, 3.6 m WIDE)
35+045.5 RT (9.8 m WIDE, PAVED - COMM.)
35+054.1 LT (4.0 m WIDE, PAVED - COMM.)
35+058.6 RT (COLD PLANE/OVERLAY 50 mm, 9.8 m WIDE)
35+074.3 LT (3.3 m WIDE, PAVED - RES.)

PORTLAND CEMENT CONCRETE SIDEWALK, 125 mm
2I+510.0 - 2I+521.8LT
2I+513.5 LT (1.2 m WIDE, SLOPE=3.0%)
2I+534.2LT - 34+063.0 LT
2I+546.0 - 2I+551.1 LT(RAMP)
2I+570.6 - 2I+578.1 RT(RAMP)
30+058.0 - 30+109.0 RT
30+065.7 RT (1.6 m WIDE, SLOPE=2.0%)
30+065.8 LT (RAMP)
30+065.8 RT (CONNECTOR)
30+089.4 RT (2.1 m WIDE, SLOPE=1.0%)
30+116.9 LT (RAMP)
30+117.1 - 30+149.0 RT
34+010.8 LT (INCL. RAMP)
34+024.3 RT - 35+025.0 LT(CONNECTOR)
34+027.8 RT - 34+031.9 RT(INCL. RAMP)
34+066.4 RT - 35+050.6 LT
35+038.2 LT (2.9 m WIDE, SLOPE=-4.0%)
35+039.4 RT - 2I+615.0 LT
35+054.3 RT (MATCH EXIST.)
35+057.6 - 35+081.0 LT
35+063.9 - 35+089.1 RT
35+070.5 LT (1.7 m WIDE, SLOPE=-2.0%)

CONSTRUCT CONCRETE STEPS
34+034.5 - 34+055.9 RT(2I.5 m WIDE, 2 RISERS)

SPECIAL PROVISION (METAL HAND RAILING)
34+034.6 RT
34+055.8 RT

PORTLAND CEMENT CONCRETE SIDEWALK, 200 mm
2I+521.8 - 2I+534.2 LT
35+039.4 - 35+063.9 RT
35+050.6 - 35+057.6 LT

CONSTRUCT SIDEWALK RAMP W/
DETECTABLE WARNING SURFACE (YELLOW)
2I+574.5 RT (TYPE 6)
2I+574.5 LT (TYPE 5)
30+065.8 LT (TYPE 1)
30+065.8 RT (TYPE 1)
30+101.2 RT (TYPE 6)
30+116.9 LT (TYPE 5)
30+120.4 RT (TYPE 5)
34+010.8 RT (TYPE 5)
34+010.8 LT (TYPE 1)
34+031.9 RT (TYPE 1)
35+011.5 LT (TYPE 5)
35+011.7 RT (TYPE 6)

VERTICAL GRANITE CURB
2I+510.0 - 2I+523.4 LT
2I+510.0 - 2I+615.0 RT
2I+532.9 - 34+056.1 LT
2I+545.7 - 2I+549.9 LT(BACK CURB)
30+058.0 - 30+062.7 LT
30+058.0 - 30+109.1 RT
30+063.3 LT/RT (CROSSWALK, FLUSH EDGING)
30+063.3 - 30+069.7 LT
30+064.5 LT/RT (CROSSWALK, FLUSH EDGING)
30+067.0 - 30+070.0 RT(SWLK EDGING)
30+067.1 LT/RT (CROSSWALK, FLUSH EDGING)
30+068.3 LT/RT (CROSSWALK, FLUSH EDGING)
30+095.1 - 30+104.1 RT (BACK CURB 125 REVEAL)
30+109.1 RT(DRIVE, FLUSH EDGING)
30+114.5 LT-30+117.9 RT (CROSSWALK, FLUSH EDGING)
30+114.5 - 30+149.0 LT
30+115.4 LT-30+119.0 RT (CROSSWALK, FLUSH EDGING)
30+116.3 - 30+120.9 RT(DRIVE, FLUSH EDGING)
30+116.3 - 30+149.0 RT
30+117.1 - 30+118.1 RT(SWLK EDGING)
30+118.3 LT-30+121.9 RT (CROSSWALK, FLUSH EDGING)
30+119.2 - 30+120.0 LT(SWLK EDGING)
30+119.4 LT-30+123.2 RT (CROSSWALK, FLUSH EDGING)
34+061.6 - 34+073.0 LT
34+065.6 RT - 35+051.5 LT
35+038.1 RT - 2I+615.0 LT(PARKING LOT)
35+039.8 RT - 2I+615.0 LT
35+049.9 - 35+052.5 RT (DRIVE)
35+056.7 - 35+072.4 LT (75 REVEAL)
35+076.3 - 35+081.0 LT (75 REVEAL)

GRANITE SLOPE EDGING
30+069.7 - 30+114.5 LT (100 mm REVEAL)
35+038.1 - 35+040.9 RT (ISLAND)

REMOVING AND RESETTING CURB
2I+567.6 - 2I+583.8 RT (FOUNTAIN MRBL. EDGING)
34+057.1 LT (DRIVE)
34+061.6 LT (DRIVE)
35+051.0 - 35+053.6 RT (DRIVE)
35+062.3 - 35+062.5 RT (DRIVE)
35+063.4 - 35+089.1 RT

REMOVING TREES	REMOVING SHRUBS
REMOVING STUMPS	2I+511.3 LT
2I+527.9 RT (S)	2I+515.1 LT
2I+556.8 RT (M)	2I+567.0 RT
2I+580.7 RT (L)	30+066.8 - 30+069.7 RT
2I+583.7 RT (M)	(HEDGEROW)
2I+591.1 RT (S)	
2I+598.4 RT (S)	SPECIAL PROVISION
30+059.0 RT (S)	(REMOVE BENCH)
30+089.6 LT (S)	(RETURN TO OWNER)
30+103.3 LT (S)	2I+561.0 RT
30+121.6 RT (S)	2I+580.5 RT
30+145.9 RT (S) (STUMP)	2I+590.1 RT (PICNIC TABLE)
35+087.6 RT (S)	2I+603.0 RT

SPECIAL PROVISION (REMOVE AND RESET USPS MAILBOX)
30+105.3 RT (RESET AT 30+106.6 RT 15.35 m)
34+064.8 RT (RESET AT 34+029.0 RT 10.00 m)

SPECIAL PROVISION (REMOVE AND RESET FLAG POLE)
2I+548.0 RT (FLAG POLE, RELOCATE TO 36+015.5 LT)

SPECIAL PROVISION (RELOCATE GAZE30)
(SEE MISC. DETAILS)
2I+541.1 RT (RELOCATE TO 30+081.0 LT 10.0 m)

SPECIAL PROVISION (REMOVE AND RESET MARBLE SLAB)
30+087.2 - 30+091.7 RT (MRBL. IS_AND, TWO SLABS)
(RELOCATE BEHIND BACK CURB, 30+095.1-30+099.6 RT)

SEE PLAN 8A

SEE PLAN 8C

SEE PLAN 8B

MATCH LINE 2I+615

MATCH LINE 30+149

MATCH LINE 2I+510

MATCH LINE 30+058

BM #6 (STA 2I+600.3 RT)
USC & GS STANDARD DISC
IN CONC MONUMENT
STAMPED BRANDON 1955
ELEV. = 131.180 m

35+066.000
LIMIT OF WORK

REMOVE & REPLACE PROPERTY MARKERS
- SEE LAYOUT 8B

DO NOT DISTURB SIGN & LIGHT

DO NOT DISTURB SIGN

6147 CURTIS, JOAN M.

6060 BLACK, PATRICIA ELIZABETH
DISCONNECT & CONNECT (T)

6059 LAWTON, BENJAMIN F. JR. & HAYDEN, SUSAN JANET d/b/a H&L ASSOCIATES
DISCONNECT & CONNECT (T) 2 SBF

6059A

6059B

6062 TRIPLE M. MARKETS, INC.
DISCONNECT & CONNECT (T)

6061 HANNAFORD BROS. CO.

6063

6048 STEWARDS OF THE METHODIST EPISCOPAL CHURCH OF BRANDON

6048A

6049 SMITH, JEFFREY T.

6047

6067 JOHNSON, LAWRENCE M. & ROSEANN M.

6066 ERRICK, STEVEN M. & JOANNE D.
DISCONNECT & CONNECT (T)

6065 HOWELLS, DAVID A.

6064 LI, BO
DISCONNECT & CONNECT (T)
UTIL (P) (PUE & PUTV)

6058 PATTIS, ALOIS J. & SARAH V.
DISCONNECT & CONNECT (T)
UTIL (P) (WATER)

34+032.200
13.305m (43.65') RT
INSTALL (T)

34+056.094
13.305m (42.65') RT
INSTALL (T)

34+062.788
12.183m (39.97') RT

34+065.648
10.788m (35.39') RT

6.788m (22.27')
3.682m (12.44')

23.905m (78.43')

34+021.000
17.277m (56.68') RT

34+025.000
13.303m (43.65') RT

11.925m (39.12')

14.450m (47.34')

35+033.000
9.408m (30.87') LT

21+542.777
11.730m (38.48') LT

21+547.993
11.834m (38.83') LT

21+537.961
10.655m (34.96') LT

4.431m (14.54')

5.912m (19.40')

REMOVE & REPLACE PROPERTY MARKERS - SEE LAYOUT 8B (PAVING)

LINES SHOWN ON THIS PLAN AS EXISTING PROPERTY LINES (P/L) ARE BELIEVED TO BE ACCURATE BUT SHOULD NOT BE RELIED UPON FOR PURPOSES UNRELATED TO THE STATE OF VERMONT AND THE TOWN OF BRANDON ACQUISITION OF LAND AND RIGHTS FOR THIS PROJECT

0 10 20 30
SCALE IN METERS

ALL EASEMENTS FOR PARCELS 6058, 6064 AND 6065 ACQUIRED UNDER NH 019-3(496) C/I

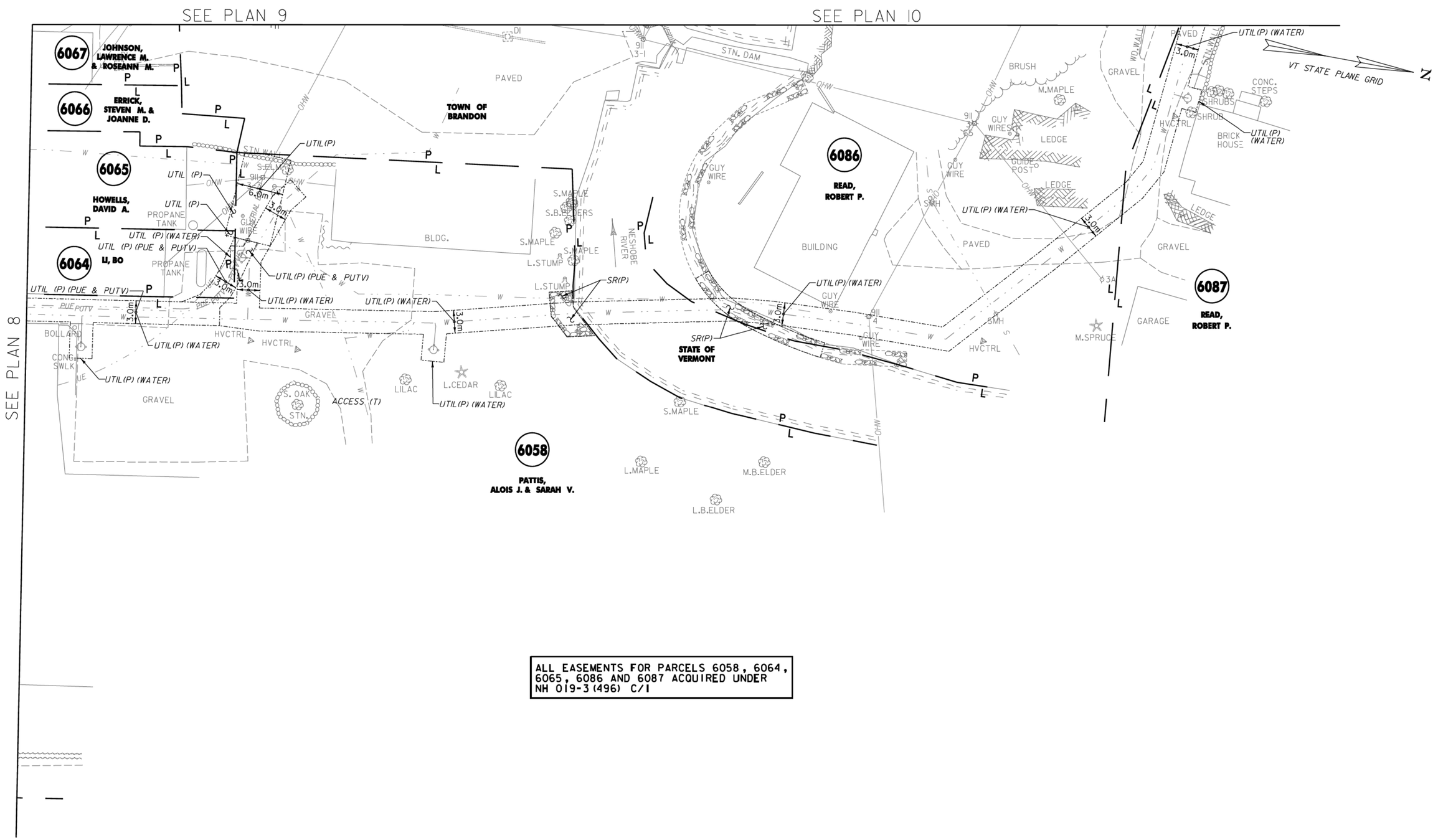
RIGHT-OF-WAY LAYOUT 8

PROJECT NAME: BRANDON
PROJECT NUMBER: NH 019-3(496)

FILE NAME: zb008s6-Row.dgn
PROJECT LEADER: C. BEAN
DESIGNED BY: M. HALEY
PLOT DATE: 8/4/2016
DRAWN BY: S. GOODWIN
CHECKED BY: D. MUNRO
SHEET 38 OF 185
SHEET 64 OF 601

ISSUED FOR CONSTRUCTION

VAOT Metric



ALL EASEMENTS FOR PARCELS 6058, 6064, 6065, 6086 AND 6087 ACQUIRED UNDER NH 019-3(496) C/I

LINES SHOWN ON THIS PLAN AS EXISTING PROPERTY LINES (P/L) ARE BELIEVED TO BE ACCURATE BUT SHOULD NOT BE RELIED UPON FOR PURPOSES UNRELATED TO THE STATE OF VERMONT AND THE TOWN OF BRANDON ACQUISITION OF LAND AND RIGHTS FOR THIS PROJECT

0 10 20 30

SCALE IN METERS

RIGHT-OF-WAY LAYOUT 8A

PROJECT NAME: BRANDON
PROJECT NUMBER: NH 019-3(496)

FILE NAME: zb008s6-Row.dgn
PROJECT LEADER: C. BEAN
DESIGNED BY: M. HALEY

PLOT DATE: 8/4/2016
DRAWN BY: S. GOODWIN
CHECKED BY: D. MUNRO

ISSUED FOR CONSTRUCTION

VAOT Metric

40 COLD PLANING
40 BITUMINOUS CONCRETE PAVEMENT (TYPE IIIS) (PG 58-28)
37+041.0 LT - 37+070.0 RT

REMOVE & REPLACE PROPERTY MARKERS - LAYOUT 8	
EXISTING	PROPOSED
BND 21+537.961 10.655m (34.96')LT	BND 21+537.961 10.655m (34.96')LT
BND 21+552.477 20.341m (66.74')LT	BND 21+552.477 20.341m (66.74')LT
BND 21+594.059 16.187m (53.11')LT	BND 21+594.059 16.187m (53.11')LT
BND 21+604.646 13.124m (43.06')LT	BND 21+604.646 13.124m (43.06')LT
BND 30+075.895 11.766m (38.60')RT	REMOVE
BND 34+043.602 9.989m (32.77')RT	REMOVE
BND 34+073.000 14.109m (46.29')LT	RETAIN EXISTING
BND 34+073.000 11.054m (36.27')RT	RETAIN EXISTING
BND 35+028.825 9.522m (31.24')LT	REMOVE
BND 35+063.000 8.585m (28.17')LT	RETAIN EXISTING
BND 35+063.000 9.725m (31.91')RT	RETAIN EXISTING
IP/BND 35+076.620 6.041m (19.82')LT	RETAIN EXISTING
IP/BND 35+089.108 7.447m (24.43')RT	RETAIN EXISTING

VT STATE PLANE GRID N

STA 37+023.1 RT - 37+036.8 RT
STORMWATER TREATMENT STRUCTURE #4
DISCHARGE PERMIT #4164 - INDS

37 + 070.000
LIMIT OF WORK

34 + 210.000
LIMIT OF WORK

N\F CARRIGAIN, JACQUELINE

N\F ZELIS, MARK & REBECCA

N\F MORRIS, RICHARD & KAREN

N\F BRYANT, PATRICK

N\F KEYES, PHILIP & KING, LAURA

N\F CARTER, ANDREW & NIXON, JENNIFER

N\F ELMORE, CATHERINE M.

37+080 37+060 ROSSITER ST 37+040 37+020

APPROX. EXIST. ROW

CARVER ST.
ROSSITER ST.

CARVER ST

34+240 34+220 34+200 34+180 34+160 34+140 TH-42 34+120 34+100

SEE PLAN 8

LINES SHOWN ON THIS PLAN AS EXISTING PROPERTY LINES (P/L) ARE BELIEVED TO BE ACCURATE BUT SHOULD NOT BE RELIED UPON FOR PURPOSES UNRELATED TO THE STATE OF VERMONT AND THE TOWN OF BRANDON ACQUISITION OF LAND AND RIGHTS FOR THIS PROJECT

0 10 20 30
SCALE IN METERS

RIGHT-OF-WAY LAYOUT 8B

PROJECT NAME: BRANDON
PROJECT NUMBER: NH 019-3(496)

FILE NAME: zb008s6-Row.dgn
PROJECT LEADER: C. BEAN
DESIGNED BY: M. HALEY

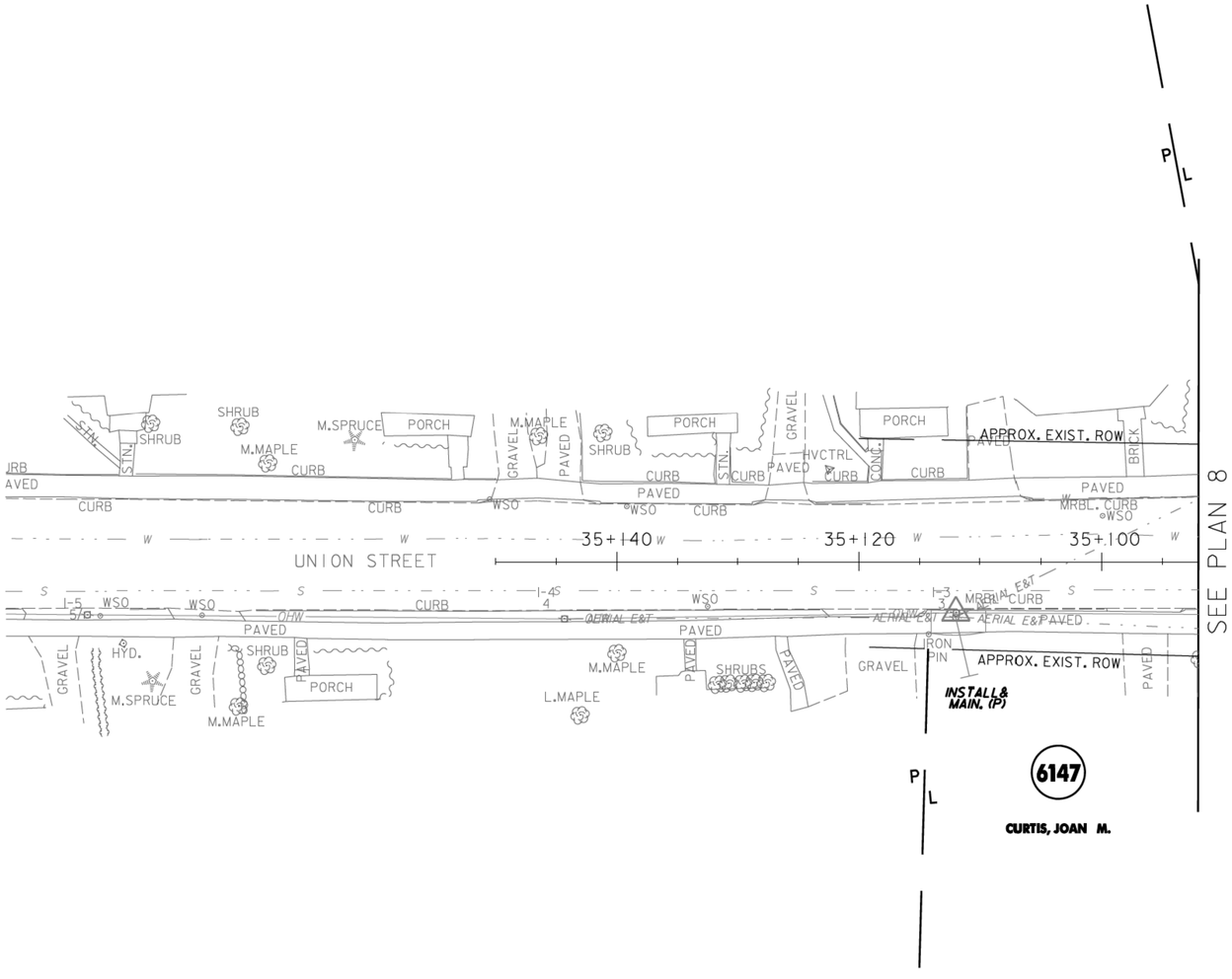
PLOT DATE: 8/4/2016
DRAWN BY: S. GOODWIN
CHECKED BY: D. MUNRO

VAOT Metric

BITUMINOUS CONCRETE SIDEWALK
35+109.5 - 35+114.0 LT
(WIDEN BEHIND UTILITY POLE, 1.2m MIN.)

VT STATE PLANE GRID N

REMOVE & REPLACE PROPERTY MARKERS	
EXISTING	PROPOSED
IP 35+114.243 5.984m (19.63')LT	RETAIN EXISTING



LINES SHOWN ON THIS PLAN AS EXISTING PROPERTY LINES (P/L) ARE BELIEVED TO BE ACCURATE BUT SHOULD NOT BE RELIED UPON FOR PURPOSES UNRELATED TO THE STATE OF VERMONT AND THE TOWN OF BRANDON ACQUISITION OF LAND AND RIGHTS FOR THIS PROJECT

0 10 20 30
SCALE IN METERS

RIGHT-OF-WAY LAYOUT 8C

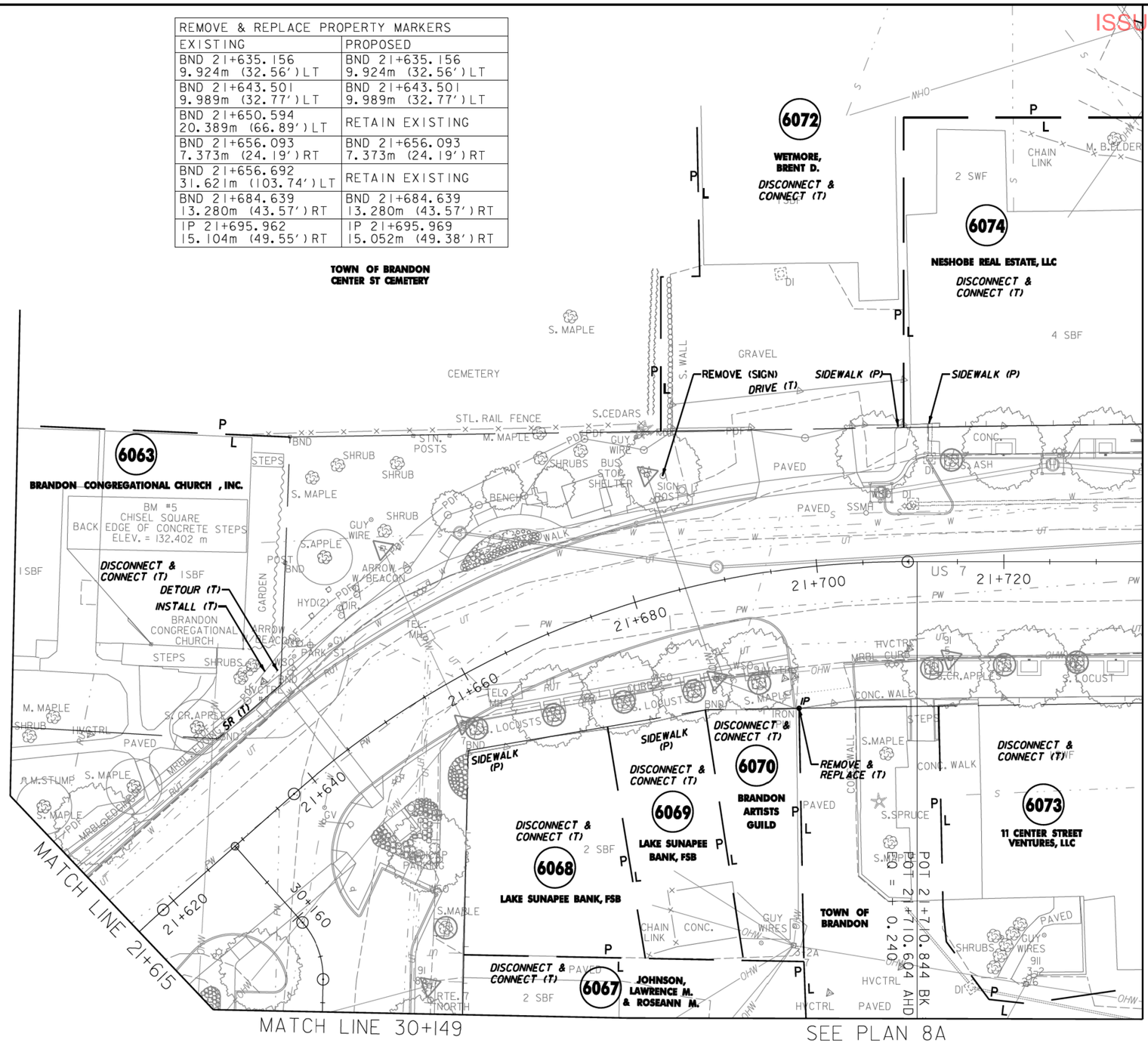
PROJECT NAME: BRANDON
PROJECT NUMBER: NH 019-3(496)

FILE NAME: zb008s6-Row.dgn
PROJECT LEADER: C. BEAN
DESIGNED BY: M. HALEY
PLOT DATE: 8/4/2016
DRAWN BY: S. GOODWIN
CHECKED BY: D. MUNRO
SHEET 41 OF 185

ISSUED FOR CONSTRUCTION

VAOT Metric

REMOVE & REPLACE PROPERTY MARKERS	
EXISTING	PROPOSED
BND 21+635.156 9.924m (32.56')LT	BND 21+635.156 9.924m (32.56')LT
BND 21+643.501 9.989m (32.77')LT	BND 21+643.501 9.989m (32.77')LT
BND 21+650.594 20.389m (66.89')LT	RETAIN EXISTING
BND 21+656.093 7.373m (24.19')RT	BND 21+656.093 7.373m (24.19')RT
BND 21+656.692 31.621m (103.74')LT	RETAIN EXISTING
BND 21+684.639 13.280m (43.57')RT	BND 21+684.639 13.280m (43.57')RT
IP 21+695.962 15.104m (49.55')RT	IP 21+695.969 15.052m (49.38')RT



CONSTRUCT DRIVES
21+699.4 RT (6.5 m WIDE, PAVED - COMM.)
21+700.0 LT (10.5 m WIDE, PAVED - COMM.)

PORTLAND CEMENT CONCRETE SIDEWALK, 125 mm
21+615.0 - 21+693.7 LT
21+663.0 - 21+674.8 LT (BEHIND ISLAND)
21+703.2 - 21+735.0 RT
21+706.2 - 21+735.0 LT
21+733.8 - 21+735.0 LT (RAMP)
30+149.0 - 21+695.5 RT
30+156.5 RT - 21+650.0 RT (AROUND ISLAND)
30+161.2 LT (RAMP)

PORTLAND CEMENT CONCRETE SIDEWALK, 200 mm
21+693.7 - 21+706.2 LT

BITUMINOUS CONCRETE SIDEWALK
21+625.9 LT (1.4 m WIDE, SLOPE=2.0%)
21+633.5 LT (1.4 m WIDE, SLOPE=-4.0%)

CONSTRUCT SIDEWALK RAMP W/ DETECTABLE WARNING SURFACE (YELLOW)
21+644.0 RT (TYPE 5)
21+644.0 LT (TYPE 6)
21+727.2 LT (TYPE 5)
30+157.3 RT (TYPE 6)
30+161.0 RT (TYPE 5)
30+161.4 LT (TYPE 1)

VERTICAL GRANITE CURB
21+615.0 RT - 30+149 LT
21+615.0 - 21+694.6 LT
21+703.0 - 21+735.0 RT
21+705.4 - 21+735.0 LT
21+729.7 LT (RAMP)
30+149.0 - 21+695.5 RT

CONSTRUCT CONCRETE PAD
21+676.4 - 21+680.6, 10.8 m LT
(4.6 x 3.6 x XX m, WITH NO. X REINFORCING STEEL AT XX mm O.C. EACH WAY, XX mm FROM TOP AND BOTTOM) (CONSTRUCTION OF BUS SHELTER ON PAD BY OTHERS) (PAD SET ON 300 m OF SUBBASE OF COARSE GRADED CRUSHED GRAVEL COMPACTED PER SUBSECTION 301.06)

DEMOLITION AND DISPOSAL OF BUILDING
21+681.0 LT (REMOVE BUS STOP SHELTER)

SPECIAL PROVISION (IMPRINTED/COLORIZED SURFACE)
21+637.3 - 21+643.1 LT
21+644.0 LT/RT
21+644.8 - 21+650.6 LT
30+161.0 RT - 30+161.4 LT

SPECIAL PROVISION (METAL HAND RAILING)
21+733.7 - 21+735.0 LT (RAMP)

REMOVING TREES
21+658.0 RT (S)
21+666.7 RT (S)
21+674.9 RT (S)
21+683.3 RT (S)
21+691.3 RT (S)
21+712.2 RT (S)
21+714.3 LT (S)
21+720.1 RT (S)
21+727.9 RT (S)
30+154.9 RT (S)

REMOVING SHRUBS
21+679.3 LT

SPECIAL PROVISION (REMOVE BENCH) (RETURN TO OWNER)
21+674.0 LT

(SEE ITEM DETAIL SHEETS FOR LIMITS OF BRICK PAVING)

0 10 20 30
SCALE IN METERS

LINES SHOWN ON THIS PLAN AS EXISTING PROPERTY LINES (P/L) ARE BELIEVED TO BE ACCURATE BUT SHOULD NOT BE RELIED UPON FOR PURPOSES UNRELATED TO THE STATE OF VERMONT AND THE TOWN OF BRANDON ACQUISITION OF LAND AND RIGHTS FOR THIS PROJECT

RIGHT-OF-WAY LAYOUT 9

PROJECT NAME: BRANDON
PROJECT NUMBER: NH 019-3(496)

FILE NAME: zb008s6-Row.dgn
PROJECT LEADER: C. BEAN
DESIGNED BY: M. HALEY
PLOT DATE: 8/4/2016
DRAWN BY: S. GOODWIN
CHECKED BY: D. MUNRO
SHEET 42 OF 185
SHEET 68 OF 601

ISSUED FOR CONSTRUCTION

VT STATE PLANE GRID N

VAOT Metric

CONSTRUCT DRIVES
21+752.4 LT (6.0 m WIDE, PAVED - COMM.)
21+784.0 RT (3.3 m WIDE, PAVED - COMM.)
21+843.9 RT (6.0 m WIDE, PAVED - RES.)
9+037.4 RT (8.0 m WIDE, PAVED - COMM.)
9+043.0 LT (10.5 m WIDE, PAVED - COMM.)
9+052.1 RT (8.0 m WIDE, PAVED - COMM.)

RELOCATE MAIL BOX, SINGLE SUPPORT
21+808.5 RT (DROP BOX)

REMOVE & REPLACE PROPERTY MARKERS - SEE LAYOUT 11A

PORTLAND CEMENT CONCRETE SIDEWALK, 125 mm
21+735.0 - 21+745.5 LT
21+735.0 - 21+747.4 LT (RAMP)
21+735.0 - 21+782.4 RT
21+757.2 - 21+800.0 LT
21+762.3 LT (TO RAMP)
21+762.3 RT (TO RAMP)
21+767.3 - 21+782.4 RT (AROUND ISLAND)
21+782.5 - 21+815.8 RT
21+785.5 - 21+796.1 RT (AROUND ISLAND)
21+835.0 - 21+870.0 LT
21+843.8 RT (1.5 m WIDE, SLOPE=1.3%)
21+844.3 LT (3.5 m WIDE, SLOPE=-1.0%)
21+854.2 LT (2.4 m WIDE, SLOPE=0.0%)
9+012.3 - 9+031.8 RT
9+029.3 RT (0.9 m WIDE, SLOPE=2.0%)
9+037.7 LT - 21+869.2 RT
9+094.2 RT (1.4 m WIDE)

PORTLAND CEMENT CONCRETE SIDEWALK, 200 mm
21+747.4 - 21+757.2 LT
21+869.2 - 21+870.0 RT
9+031.8 - 9+061.0 RT

BITUMINOUS CONCRETE SIDEWALK
21+834.1 - 21+838.0 LT (TO FACE OF BLDG.)
21+846.2 - 21+853.0 LT (TO FACE OF BLDG./STAIRS)
21+847.8 RT (1.2 m WIDE, SLOPE=11.4%)
9+009.3 LT (1.2 m WIDE, SLOPE=6.2%)
9+021.9 - 9+029.2 LT (TO TOWN HALL STEPS)
9+077.0 - 9+097.3 RT (IF NECESSARY FOR NEW SEWER)

CONSTRUCT SIDEWALK RAMP W/ DETECTABLE WARNING SURFACE (YELLOW)
21+762.3 LT (TYPE 1) 21+802.1 RT (TYPE 5)
21+762.3 RT (TYPE 1) 21+835.8 LT (TYPE 6)
21+771.5 RT (TYPE 6) 9+009.9 LT (TYPE 6)

CONSTRUCT CONCRETE STEPS
21+854.2 LT (2.4 m WIDE, 3 RISERS)

SPECIAL PROVISION (METAL HAND RAILING)
21+735.0 - 21+745.7 LT (ALONG RAMPS)
21+853.1 LT
21+855.3 LT

SPECIAL PROVISION (SQUARE STEEL FENCE)
21+735.0 - 21+745.5 LT (ALONG SWLK/WALL)

VERTICAL GRANITE CURB
21+735.0 - 21+736.2 LT (BEHIND RAMP)
21+735.0 - 21+748.9 LT
21+735.0 - 21+782.5 RT
21+740.0 - 21+748.9 LT (BACK CURB)
21+745.5 - 21+745.9 LT (BEHIND SIDEWALK)
21+755.9 - 21+787.6 LT
21+780.6 - 21+782.5 RT (DRIVE, FLUSH EDGING)
21+782.8 - 21+785.5 RT (DRIVE, FLUSH EDGING)
21+785.5 - 21+812.4 RT
21+835.0 - 21+853.0 LT (BEHIND SWLK)
21+835.4 - 21+842.4 LT (450 x 115 STEP)
21+837.4 - 21+870.0 LT
21+842.4 LT (WALKWAY EDGING)
21+846.2 LT (WALKWAY EDGING)
21+847.1 - 21+870.0 RT
21+855.4 - 21+870.0 LT (BEHIND SWLK)
21+866.0 - 21+870.0 RT (DRIVE) (MATCH TO EXIST.)
9+008.0 - 9+022.2 LT
9+012.3 - 9+033.1 RT
9+022.2 - 9+028.2 LT (FLUSH, NO REVEAL)
9+028.2 - 9+037.7 LT
9+032.0 - 9+037.7 LT (BEHIND SWLK)
9+041.4 - 9+048.3 RT (BEHIND SWLK)
9+041.7 - 9+048.0 RT
9+056.3 - 9+061.0 RT

REMOVING AND RESETTING CURB
21+787.6 - 21+800.0 LT (INSTALLED UNDER BHF 019-3(58))
21+812.4 - 21+814.7 RT (INSTALLED UNDER BHF 019-3(58))
21+835.0 - 21+837.4 LT (INSTALLED UNDER BHF 019-3(58))
9+077.0 - 9+097.3 RT (IF NECESSARY FOR NEW SEWER)

REMOVING TREES
21+736.2 RT (S) 21+758.6 RT (S) 21+798.9 RT (S)
21+739.5 LT (S) 21+766.0 RT (S) 21+805.3 RT (S)
21+744.1 RT (S) 21+773.5 RT (S)
21+751.5 RT (S) 21+793.9 RT (S)

SPECIAL PROVISION (IMPRINTED/COLORIZED SURFACE)
21+762.3 LT/RT
21+824.5 RT - 21+835.9 LT
21+825.0 RT - 9+010.0 LT

CONSTRUCT CONCRETE RETAINING WALL
STONE MASONRY FACING
21+735.0 - 21+745.6 LT
(SEE RETAINING WALL #3 DETAILS)

SPECIAL PROVISION (REMOVE PENSTOCK) BLDG.
(REMOVE TO LIMIT OF WORK/PLUG AND ABANDON ENDS)
21+762.3 RT - 21+770.5 LT (1050 mm; EXACT LOCATION UNKNOWN)
* PORTLAND CEMENT CONCRETE SIDEWALK AND CURB INSTALLED UNDER BHF 019-3(58)

EXCAVATION OF SURFACES AND PAVEMENTS (PLACE 100mm TOPSOIL, SEED, FERTILIZER, LIMESTONE AND HAY MULCH)
9+016.3 - 9+021.9 LT
9+029.2 - 9+035.9 LT

ALL EASEMENTS FOR PARCELS 6086 AND 6087 ACQUIRED UNDER NH 019-3(496) C/1

0 10 20 30
SCALE IN METERS

SEE PLAN 8A

LINES SHOWN ON THIS PLAN AS EXISTING PROPERTY LINES (P/L) ARE BELIEVED TO BE ACCURATE BUT SHOULD NOT BE RELIED UPON FOR PURPOSES UNRELATED TO THE STATE OF VERMONT AND THE TOWN OF BRANDON ACQUISITION OF LAND AND RIGHTS FOR THIS PROJECT

REV	DATE	DESCRIPTION
1	3/31/2017	REVISED EASEMENTS FOR PARCEL 6091

RIGHT-OF-WAY LAYOUT 10

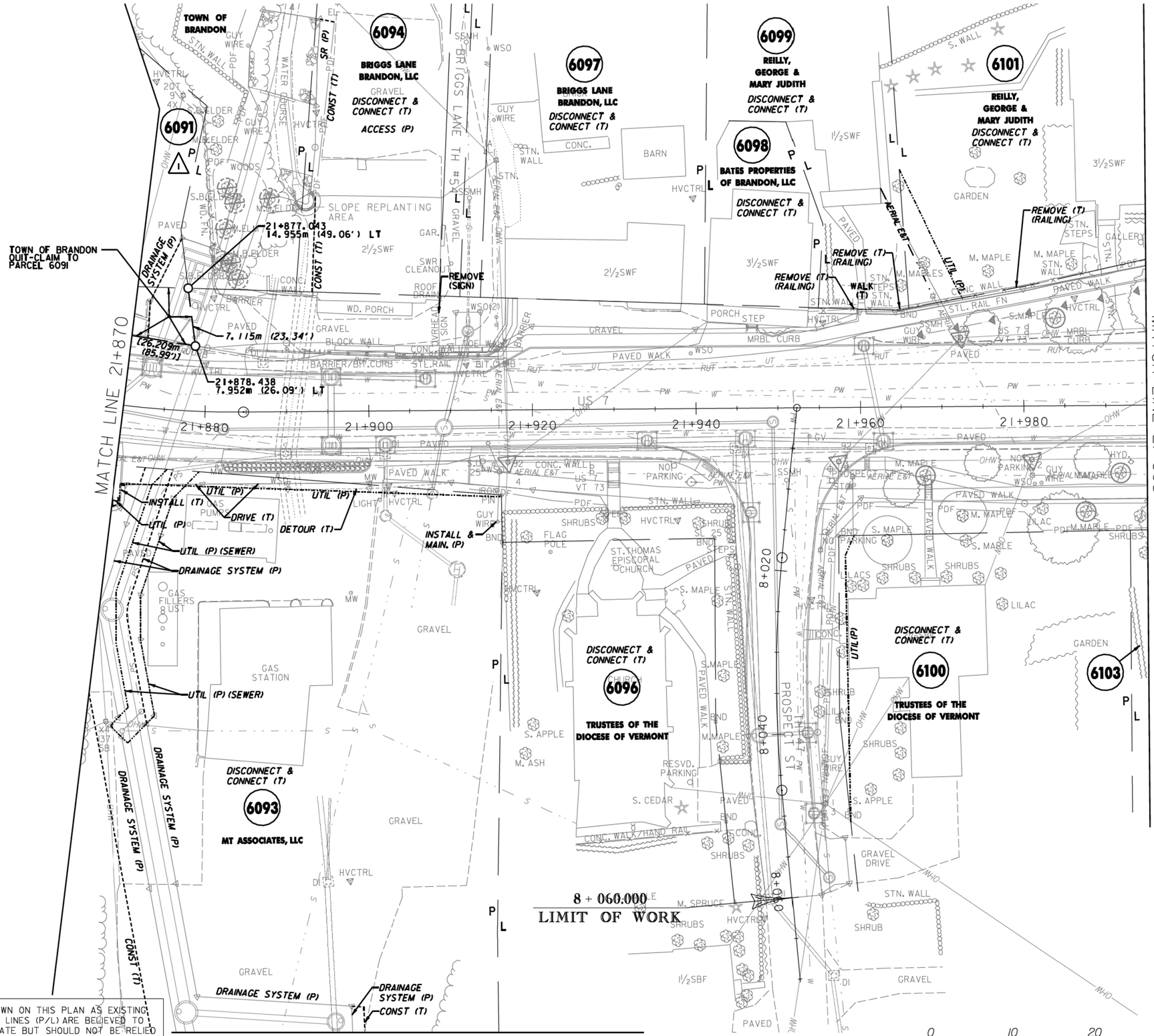
PROJECT NAME: BRANDON
PROJECT NUMBER: NH 019-3(496)

FILE NAME: zb008s6-Row.dgn
PROJECT LEADER: C. BEAN
DESIGNED BY: M. HALEY
PLOT DATE: 3/10/2017
DRAWN BY: S. GOODWIN
CHECKED BY: D. MUNRO
SHEET 43 OF 185
SHEET 69 OF 601

ISSUED FOR CONSTRUCTION

STA 21+876.1 LT - 21+884.4 LT
STORMWATER TREATMENT STRUCTURE #2
DISCHARGE PERMIT #4164 - INDS

REMOVE & REPLACE PROPERTY MARKERS - SEE LAYOUT 11A



CONSTRUCT DRIVES
21+876.4 RT (12.0 m WIDE, PAVED - COMM.)
21+878.6 LT (12.0 m WIDE, PAVED - COMM.)
21+906.2 RT (12.0 m WIDE, PAVED - COMM.)
8+056.1 LT (5.6 m WIDE, GRAVEL - RES.)

PORTLAND CEMENT CONCRETE SIDEWALK, 125 mm
21+870.0 - 21+870.7 LT
21+883.6 - 21+898.7 RT
21+886.4 - 21+995.0 LT
21+913.7 - 21+942.7 RT
21+929.8 RT (1.5 m WIDE, SLOPE=2.0%)
21+946.8 LT (1.4 m WIDE, SLOPE=6.2%)
21+958.1 - 21+995.0 RT
21+960.3 LT (0.9 m WIDE, TO BACK OF TOP STEP)

PORTLAND CEMENT CONCRETE SIDEWALK, 200 mm
21+870.0 - 21+883.6 RT
21+870.7 - 21+886.4 LT
21+898.7 - 21+913.7 RT

BITUMINOUS CONCRETE SIDEWALK
21+968.3 RT (1.0 m WIDE, SLOPE=0.0%)

SPECIAL PROVISION
(REMOVE AND RESET STONE WALKWAY)
21+990.5 LT (1.9 m WIDE, SLOPE=-2.8%)

CONSTRUCT SIDEWALK RAMP W/
DETECTABLE WARNING SURFACE (YELLOW)
8+006.1 LT (TYPE 6)
8+007.9 RT (TYPE 1)

CONSTRUCT CONCRETE STEPS
21+929.8 RT (1.5 m WIDE, 6 RISERS, 0.75 m INTERMEDIATE LANDING)
21+946.9 LT (1.4 m WIDE, 2 RISERS)
21+968.3 RT (1.0 m WIDE, 6 RISERS)

SPECIAL PROVISION (METAL HAND RAILING)
21+929.2 RT 21+959.7 LT (CONNECT TO EXIST. HAND RAIL)
21+930.5 RT 21+960.8 LT (CONNECT TO EXIST. HAND RAIL)
21+946.2 LT 21+967.9 RT
21+947.6 LT 21+968.6 RT

VERTICAL GRANITE CURB
21+870.0 - 21+870.4 RT
21+870.0 - 21+871.0 RT (DRIVE)
21+870.0 - 21+871.9 LT
21+870.0 - 21+872.2 LT (BEHIND SWLK)
21+882.1 - 21+900.2 RT (BEHIND SWLK/ISLAND)
21+882.4 - 21+900.0 RT
21+885.2 - 21+995.0 LT
21+912.1 - 21+912.2 RT (DRIVE) (MATCH TO EXIST.)
21+912.5 - 8+035.0 RT
8+041.9 LT - 21+995.0 RT

CONSTRUCT CONCRETE RETAINING WALL
(SEE RETAINING WALL #2 DETAILS)
21+895.0 - 21+915.9 LT

BRIDGE RAILING, 3 RAIL BOX BEAM (COATED BLACK)
21+894.7 - 21+917.0 LT (SEE RAIL LAYOUT DETAILS)

GUARDRAIL APPROACH SECTION, 3 RAIL BOX BEAM (COATED BLACK)
21+887.7 - 21+894.7 LT (SEE RAIL LAYOUT DETAILS)

BOX BEAM GUARDRAIL (COATED BLACK)
21+885.5 - 21+887.7 LT
(TYPE I END ASSEMBLY; SEE RAIL LAYOUT DETAILS)

SPECIAL PROVISION (REMOVAL OF EXISTING HAND RAILING)
21+953.7 - 21+959.6 LT (BEHIND SWLK; DO NOT DISTURB WALL)
21+960.9 - 21+987.6 LT (BEHIND SWLK; DO NOT DISTURB WALL)

SPECIAL PROVISION (SQUARE STEEL FENCE)
21+955.0 - 21+959.7 LT (0.3 m BEHIND WALL; DO NOT DISTURB WALL)
21+960.8 - 21+987.8 LT (0.3 m BEHIND WALL; DO NOT DISTURB WALL)

REMOVING AND RESETTING FENCE
21+880.5 - 21+880.8 LT

REMOVING TREES	REMOVING SHRUBS
21+967.9 RT (M)	8+034.8 LT
21+983.9 LT (S)	8+037.4 LT
21+987.5 RT (M)	
21+991.7 RT (M)	

LINES SHOWN ON THIS PLAN AS EXISTING PROPERTY LINES (P/L) ARE BELIEVED TO BE ACCURATE BUT SHOULD NOT BE RELIED UPON FOR PURPOSES UNRELATED TO THE STATE OF VERMONT AND THE TOWN OF BRANDON ACQUISITION OF LAND AND RIGHTS FOR THIS PROJECT

REV	DATE	DESCRIPTION
1	3/31/2017	REVISED EASEMENTS FOR PARCEL 6091

0 10 20 30
SCALE IN METERS

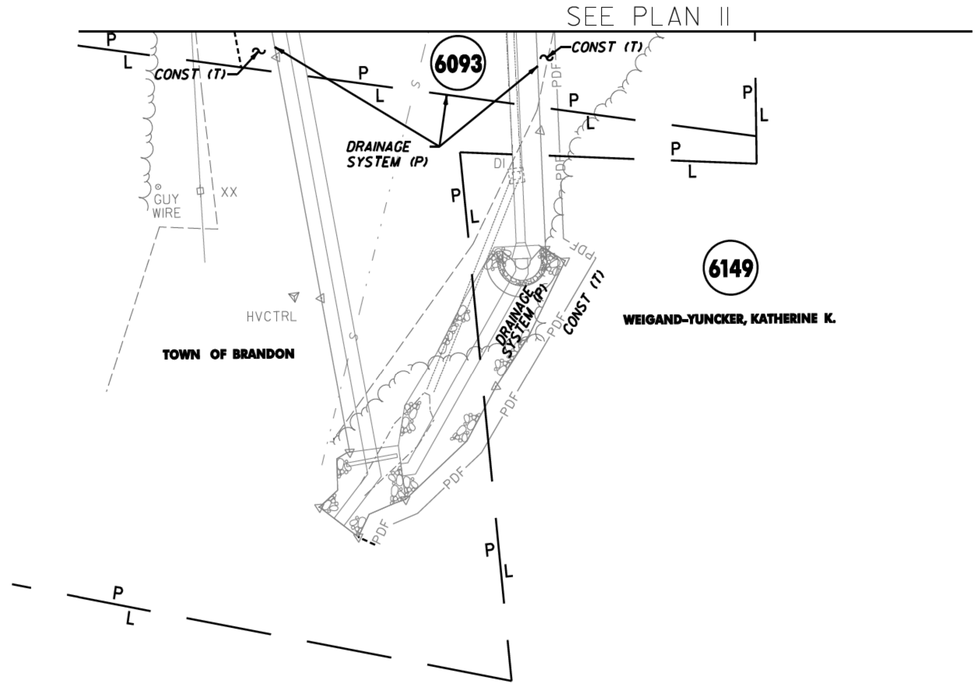
VT STATE PLANE GRID

RIGHT-OF-WAY LAYOUT 11

PROJECT NAME: BRANDON
PROJECT NUMBER: NH 019-3(496)

FILE NAME: zb008s6-Row.dgn
PROJECT LEADER: C. BEAN
DESIGNED BY: M. HALEY
PLOT DATE: 3/10/2017
DRAWN BY: S. GOODWIN
CHECKED BY: D. MUNRO
SHEET 44 OF 185

VAOT Metric



REMOVE & REPLACE PROPERTY MARKERS - LAYOUT 10	
EXISTING	PROPOSED
BND 21+776.132 10.610m (34.81')LT	RETAIN EXISTING
BND 21+821.639 15.955m (52.35')RT	RETAIN EXISTING
BND 21+834.956 6.622m (21.73')LT	BND 21+834.956 6.622m (21.73')LT
IP 21+864.830 7.783m (25.53')RT	IP 21+864.785 7.787m (25.55')RT
BND 21+865.855 21.097m (69.22')RT	RETAIN EXISTING
BND 9+034.543 6.094m (19.99')LT	BND 9+034.543 6.094m (19.99')LT
BND 9+056.565 7.295m (23.93')RT	RETAIN EXISTING
BND 9+060.000 5.104m (16.75')LT	RETAIN EXISTING
BND 9+060.000 10.079m (33.07')RT	RETAIN EXISTING

REMOVE & REPLACE PROPERTY MARKERS - LAYOUT 11	
EXISTING	PROPOSED
IP 21+878.236 9.022m (29.60')LT	REMOVE
IP 21+916.167 10.408m (34.15')RT	RETAIN EXISTING
BND 21+916.216 16.181m (53.09')RT	RETAIN EXISTING
BND 21+942.154 15.874m (52.08')RT	RETAIN EXISTING
BND 21+957.243 15.695m (51.49')RT	RETAIN EXISTING
BND 21+964.774 11.812m (38.75')LT	BND 21+964.774 11.812m (38.75')LT
BND 8+037.903 7.577m (24.86')LT	RETAIN EXISTING
BND 8+038.191 7.527m (24.69')RT	RETAIN EXISTING
BND 8+050.000 7.944m (26.06')LT	RETAIN EXISTING
BND 8+050.000 7.145m (23.44')RT	RETAIN EXISTING

LINES SHOWN ON THIS PLAN AS EXISTING PROPERTY LINES (P/L) ARE BELIEVED TO BE ACCURATE BUT SHOULD NOT BE RELIED UPON FOR PURPOSES UNRELATED TO THE STATE OF VERMONT AND THE TOWN OF BRANDON ACQUISITION OF LAND AND RIGHTS FOR THIS PROJECT

0 10 20 30
SCALE IN METERS

VT STATE PLANE GRID
N

RIGHT-OF-WAY LAYOUT 11A

PROJECT NAME: BRANDON
PROJECT NUMBER: NH 019-3(496)

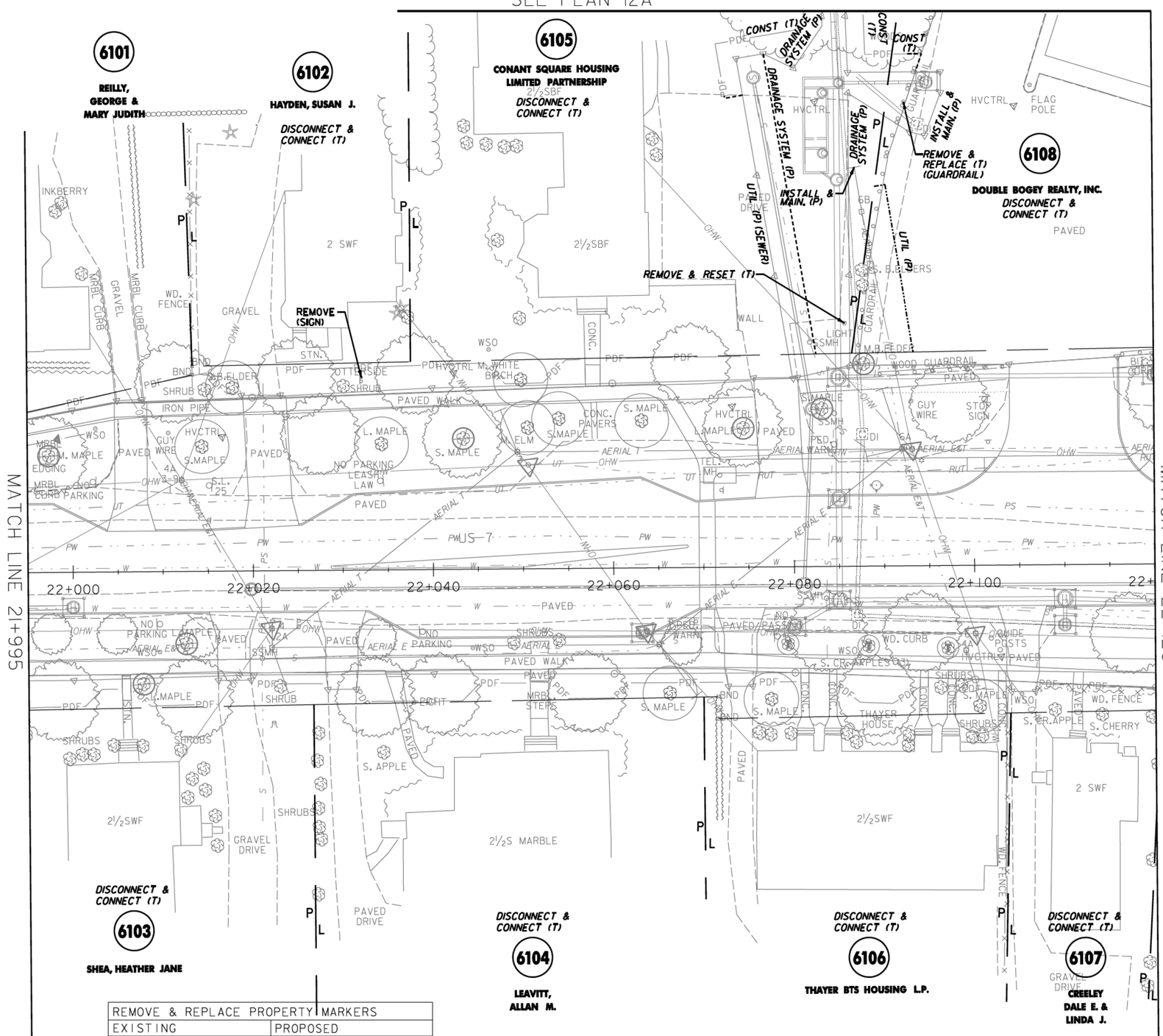
FILE NAME: zb0085s6-Row.dgn
PROJECT LEADER: C. BEAN
DESIGNED BY: M. HALEY

PLOT DATE: 11/4/2016
DRAWN BY: S. GOODWIN
CHECKED BY: D. MUNRO
SHEET 45 OF 185
SHEET 71 OF 601

ISSUED FOR CONSTRUCTION

VAOT Metric

STA 22+081.3 LT - 22+085.9 LT
STORMWATER TREATMENT STRUCTURE #3
DISCHARGE PERMIT #4164 - INDS



REMOVE & REPLACE PROPERTY MARKERS	
EXISTING	PROPOSED
IP 22+013.255 19.076m (62.59') LT	REMOVE
BND 22+013.351 22.784m (74.75') LT	RETAIN EXISTING
BND 22+013.356 21.818m (71.58') LT	RETAIN EXISTING
BND 22+071.529 14.341m (47.05') RT	RETAIN EXISTING
BND 22+071.532 16.779m (55.05') RT	RETAIN EXISTING

LINES SHOWN ON THIS PLAN AS EXISTING PROPERTY LINES (P/L) ARE BELIEVED TO BE ACCURATE BUT SHOULD NOT BE RELIED UPON FOR PURPOSES UNRELATED TO THE STATE OF VERMONT AND THE TOWN OF BRANDON ACQUISITION OF LAND AND RIGHTS FOR THIS PROJECT

VT STATE PLANE GRID N

REMOVING TREES
REMOVING STUMPS
21+997.4 LT (M)
22+007.7 RT (L)
22+012.5 RT (L)
22+043.4 LT (S)
22+074.5 LT (L)
22+083.1 LT (S)
22+087.8 LT (M)

REMOVING SHRUBS
22+048.9 RT
22+053.9 RT

CONSTRUCT DRIVES
22+006.5 LT (3.6 m WIDE, PAVED - RES.)
22+017.8 RT (3.6 m WIDE, PAVED - RES.)
22+022.1 LT (4.8 m WIDE, PAVED - RES.)
22+029.8 RT (3.6 m WIDE, PAVED - RES.)
22+074.0 RT (3.6 m WIDE, PAVED - RES.)
22+078.8 LT (4.8 m WIDE, PAVED - RES.)
22+105.3 RT (3.6 m WIDE, GRAVEL - RES., PAVE TO SWLK)
22+110.0 LT (12.0 m WIDE, PAVED - COMM.)

PORTLAND CEMENT CONCRETE SIDEWALK, 125 mm
21+995.0 - 22+102.6 LT
21+995.0 - 22+120.0 RT
22+051.7 RT (2.1 m WIDE, SLOPE=3.1%)
22+057.8 LT (1.7 m WIDE, SLOPE=-4.0%)
22+070.4 LT (CONNECTOR)
22+070.4 RT (CONNECTOR)
22+081.0 RT (0.9 m WIDE, SLOPE=7.0%)
22+084.2 RT (0.8 m WIDE, SLOPE=6.5%)
22+094.4 RT (0.9 m WIDE, SLOPE=5.0%)
22+097.4 RT (0.9 m WIDE, SLOPE=6.0%)
22+103.0 RT (0.9 m WIDE, SLOPE=1.5%)
22+117.6 - 22+120.0 LT

BITUMINOUS CONCRETE SIDEWALK
22+035.4 RT (1.7 m WIDE, SLOPE=4.4%)
22+111.5 RT (1.1 m WIDE, SLOPE=-1.6%)

SPECIAL PROVISION (REMOVE AND RESET STONE WALKWAY)
22+005.8 RT (0.9 m WIDE, SLOPE=8.0%)

CONSTRUCT SIDEWALK RAMP W/ DETECTABLE WARNING SURFACE (YELLOW)
22+070.4 LT (TYPE 1)
22+070.4 RT (TYPE 1)
22+101.4 LT (TYPE 1)
22+118.3 LT (TYPE 6)

VERTICAL GRANITE CURB
21+995.0 - 22+003.8 LT
21+995.0 - 22+015.1 RT
22+005.8 RT (STEP BEHIND SWLK, 150 REVEAL)
22+009.2 - 22+019.1 LT
22+020.5 - 22+027.1 RT
22+025.1 - 22+075.8 LT
22+032.5 - 22+071.3 RT
22+035.4 RT (STEP BEHIND SWLK, 100 REVEAL)
22+076.7 - 22+102.6 RT
22+081.8 - 22+102.6 LT
22+108.0 - 22+120.0 RT
22+116.0 - 22+120.0 LT (DRIVE)

REMOVAL OF EXISTING CURB
22+075.8 - 22+098.5 RT (REMOVE WOOD CURB)

REMOVAL AND DISPOSAL OF GUARDRAIL
STEEL BEAM GUARDRAIL
22+091.9 - 22+093.9 LT

REMOVE AND RESET GUARDRAIL
22+089.4 - 22+103.4 LT (WOOD GUARDRAIL W/ POSTS)

REMOVAL AND DISPOSAL OF GUIDE POSTS
22+101.8 RT
22+102.8 RT

REMOVING AND RESETTING LIGHT POLE
22+085.7 LT

SPECIAL PROVISION (IMPRINTED/COLORIZED SURFACE)
22+028.7 - 22+068.3 LT
22+070.4 LT/RT
22+101.2 - 22+118.3 LT

0 10 20 30
SCALE IN METERS

RIGHT-OF-WAY LAYOUT 12

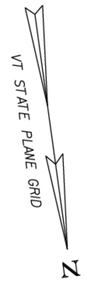
PROJECT NAME: BRANDON
PROJECT NUMBER: NH 019-3(496)

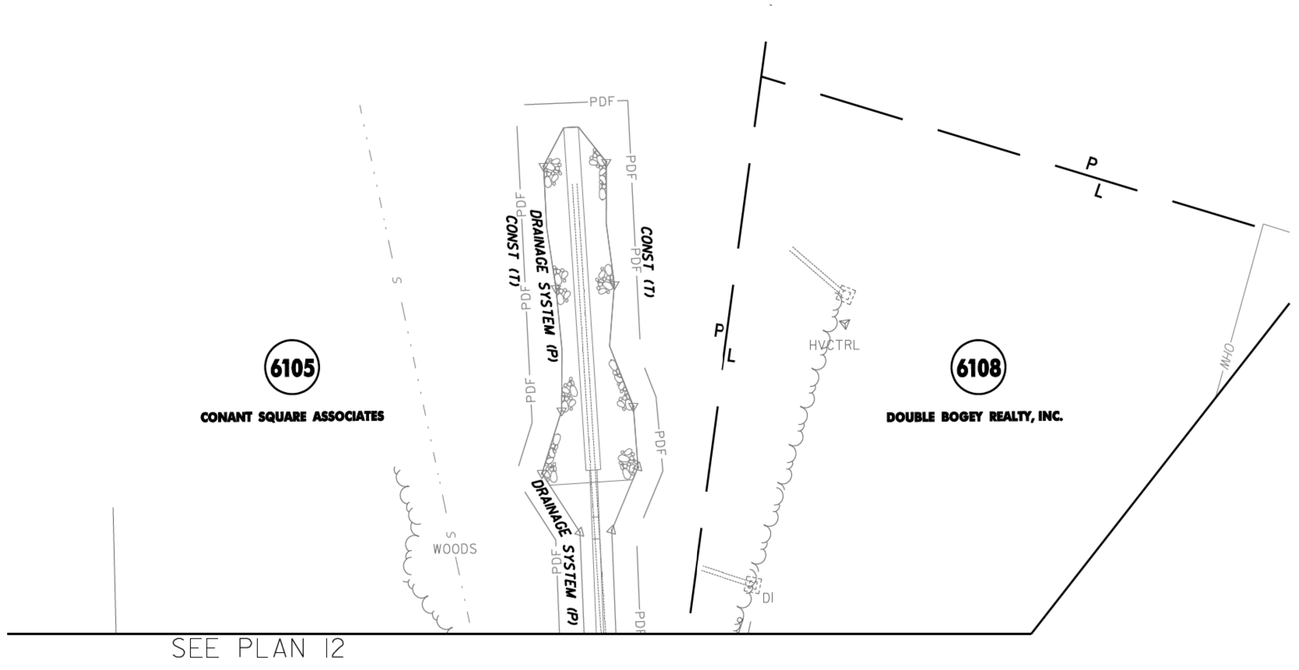
FILE NAME: zb008s6-Row.dgn
PROJECT LEADER: C. BEAN
DESIGNED BY: M. HALEY

PLOT DATE: 8/4/2016
DRAWN BY: S. GOODWIN
CHECKED BY: D. MUNRO

ISSUED FOR CONSTRUCTION

VAOT Metric





LINES SHOWN ON THIS PLAN AS EXISTING PROPERTY LINES (P/L) ARE BELIEVED TO BE ACCURATE BUT SHOULD NOT BE RELIED UPON FOR PURPOSES UNRELATED TO THE STATE OF VERMONT AND THE TOWN OF BRANDON ACQUISITION OF LAND AND RIGHTS FOR THIS PROJECT

0 10 20 30

SCALE IN METERS

RIGHT-OF-WAY LAYOUT 12A

PROJECT NAME: BRANDON
PROJECT NUMBER: NH 019-3(496)

FILE NAME: zb008s6-Row.dgn
PROJECT LEADER: C. BEAN
DESIGNED BY: M. HALEY

PLOT DATE: 8/4/2016
DRAWN BY: S. GOODWIN
CHECKED BY: D. MUNRO
SHEET 47 OF 185
SHEET 73 OF 601

ISSUED FOR CONSTRUCTION

VAOT Metric

SPECIAL PROVISION
(IMPRINTED/COLORIZED SURFACE)
22+203.3 - 22+206.0 LT
22+207.2 RT - 22+208.3 LT
22+208.4 - 22+212.8 LT
22+208.4 - 22+221.1 LT
18+015.8 LT - 18+023.0 RT
18+017.4 - 18+019.6 RT
18+021.7 - 18+053.0 RT
19+009.7 LT - 19+012.6 RT

SPECIAL PROVISION (RECONSTRUCT FOUNTAIN)
(SEE MISC. DETAILS)
22+161.7 LT

REMOVE & REPLACE PROPERTY MARKERS
- SEE LAYOUT 13A

SPECIAL PROVISION
(REMOVE BENCH)
(RETURN TO OWNER)
22+159.0 LT
22+167.5 LT
19+043.0 RT

REMOVING TREES
REMOVING STUMPS
22+120.9 LT (S)
22+127.6 LT (S)
22+145.8 LT (S)
22+160.9 LT (S)
22+177.1 LT (L)
22+200.9 LT (S)
22+210.6 LT (S)
22+222.5 LT (S)
18+018.1 RT (S)
19+041.2 RT (M)
19+061.6 LT (M) (STUMP)

REMOVING SHRUBS
18+028.414 LT

VT STATE PLANE GRID

CONSTRUCT DRIVES
22+138.0 RT (4.8 m WIDE, GRAVEL - RES., PAVE TO SWLK)
22+164.2 RT (12.0 m WIDE, PAVED - COMM.)
22+188.7 RT (10.0 m WIDE, PAVED - COMM.)
22+215.0 RT (4.8 m WIDE, PAVED - RES.)
22+226.5 RT (12.0 m WIDE, PAVED - COMM.)
18+025.5 LT (6.0 m WIDE, PAVED - RES.)
18+026.2 LT (3.6 m WIDE, GRAVEL - RES.) (SPUR)
18+052.8 LT (4.8 m WIDE, GRAVEL - RES.)
19+032.5 LT (7.2 m WIDE, PAVED - COMM.)
19+077.9 RT (4.2 m WIDE, PAVED - RES.)
19+084.9 LT (8.0 m WIDE, PAVED - COMM.)

PORTLAND CEMENT CONCRETE SIDEWALK, 125 mm
22+120.0 - 19+028.1 LT
22+120.0 - 22+157.0 RT
22+173.0 - 22+181.7 RT
22+195.5 - 22+212.5 RT
22+215.5 LT (1.8 m WIDE, SLOPE=0.5%)
22+228.8 LT (1.0 m WIDE, SLOPE=0.5%)
22+232.7 - 22+235.0 RT
18+015.8 LT (RAMP)
18+022.1 LT (RAMP)
18+022.6 RT - 22+235.0 LT
18+022.6 - 18+065.0 RT
18+025.7 - 18+065.0 LT
19+012.6 RT (RAMP)
19+037.8 - 19+079.1 LT

PORTLAND CEMENT CONCRETE SIDEWALK, 200 mm
22+157.0 - 22+173.0 RT
22+181.7 - 22+195.5 RT
19+028.1 - 19+037.8 LT
19+079.1 - 19+085.0 LT

BITUMINOUS CONCRETE SIDEWALK
22+203.3 RT (1.0 m WIDE, SLOPE=3.0%)
22+212.5 - 22+232.7 RT
18+057.5 RT (1.0 m WIDE, SLOPE=3.0%)

SPECIAL PROVISION (REMOVE AND RESET BRICK WALKWAY)
18+029.0 LT (1.2 m WIDE, SLOPE=0.0%)
18+039.8 LT (1.0 m WIDE, SLOPE=-5.0%)
18+045.4 LT (1.1 m WIDE, SLOPE=-5.0%)

CONSTRUCT SIDEWALK RAMP W/
DETECTABLE WARNING SURFACE (YELLOW)
22+207.2 RT (TYPE 6)
18+015.8 LT (TYPE 2)
18+022.1 LT (TYPE 1)
18+022.6 RT (TYPE 1)
18+029.0 LT (TYPE 6)
19+009.9 LT (TYPE 6)
19+012.6 RT (TYPE 1)

VERTICAL GRANITE CURB
22+120.0 - 19+029.0 LT
22+120.0 - 22+135.0 RT
22+141.1 - 22+158.5 RT
22+171.2 - 22+183.5 RT (BEHIND SWLK/ISLAND)
22+171.4 - 22+183.3 RT
22+194.2 - 22+212.2 RT
22+217.5 - 22+220.2 RT (ISLAND)
22+233.3 - 22+235.0 RT
18+025.2 - 18+025.9 LT (DRIVE)
18+026.4 - 18+028.7 LT (DRIVE)
18+028.7 - 18+050.1 LT
18+055.5 - 18+065.0 LT
18+065.0 RT - 22+235.0 LT
19+023.3 - 19+029.2 LT (ALONG PARKING LOT)
19+036.0 - 19+041.9 LT (ALONG PARKING LOT)
19+037.8 - 19+079.8 LT
19+072.4 - 19+076.0 RT (DRIVE)
19+072.4 RT - 18+022.9 LT
19+080.6 - 19+085.0 RT

GRANITE SLOPE EDGING
22+171.2- 22+183.5 RT (ISLAND)
22+232.7 - 22+235.0 RT (BEHIND SWLK/ISLAND)
18+022.9 - 18+025.2 LT (DRIVE)

REMOVAL AND DISPOSAL OF GUIDE POSTS
19+073.1 RT

SPECIAL PROVISION (REMOVE LIGHT POLE)
22+167.4 LT (RETURN TO OWNER)
19+028.9 RT (RETURN TO OWNER)
19+040.0 RT (RETURN TO OWNER)

SPECIAL PROVISION (RELOCATE EXISTING MONUMENT)
22+218.3 LT (RELOCATE TO 22+240.5, 11.7 m LT)

REMOVE CONCRETE PAD (BY OTHERS)
22+180.0 - 22+184.3 RT

LINES SHOWN ON THIS PLAN AS EXISTING PROPERTY LINES (P/L) ARE BELIEVED TO BE ACCURATE BUT SHOULD NOT BE RELIED UPON FOR PURPOSES UNRELATED TO THE STATE OF VERMONT AND THE TOWN OF BRANDON ACQUISITION OF LAND AND RIGHTS FOR THIS PROJECT

(SEE ITEM DETAIL SHEETS FOR LIMITS OF BRICK PAVING)

0 10 20 30
SCALE IN METERS

RIGHT-OF-WAY LAYOUT 13

PROJECT NAME: BRANDON
PROJECT NUMBER: NH 019-3(496)

FILE NAME: zb008s6-Row.dgn
PROJECT LEADER: C. BEAN
DESIGNED BY: M. HALEY
PLOT DATE: 8/4/2016
DRAWN BY: S. GOODWIN
CHECKED BY: D. MUNRO
SHEET 48 OF 185
SHEET 74 OF 601

ISSUED FOR CONSTRUCTION

VAOT Metric

REMOVE & REPLACE PROPERTY MARKERS	
EXISTING	PROPOSED
BND 18+099.688 8.149m (26.74')LT	RETAIN EXISTING
BND 18+103.000 8.579m (28.15')LT	RETAIN EXISTING
BND 18+103.000 6.511m (21.36')RT	RETAIN EXISTING
BND 19+105.000 15.623m (51.26')LT	RETAIN EXISTING
BND 19+105.000 22.248m (72.99')RT	RETAIN EXISTING

CONSTRUCT DRIVES
18+084.2 LT (7.2 m WIDE, PAVED - RES.)

PORTLAND CEMENT CONCRETE SIDEWALK, 125 mm
18+065.0 - 18+088.7 LT
18+065.0 - 18+103.0 RT
18+079.7 RT (1.6 m WIDE, SLOPE=0.0%)
19+090.6 - 19+105.0 LT

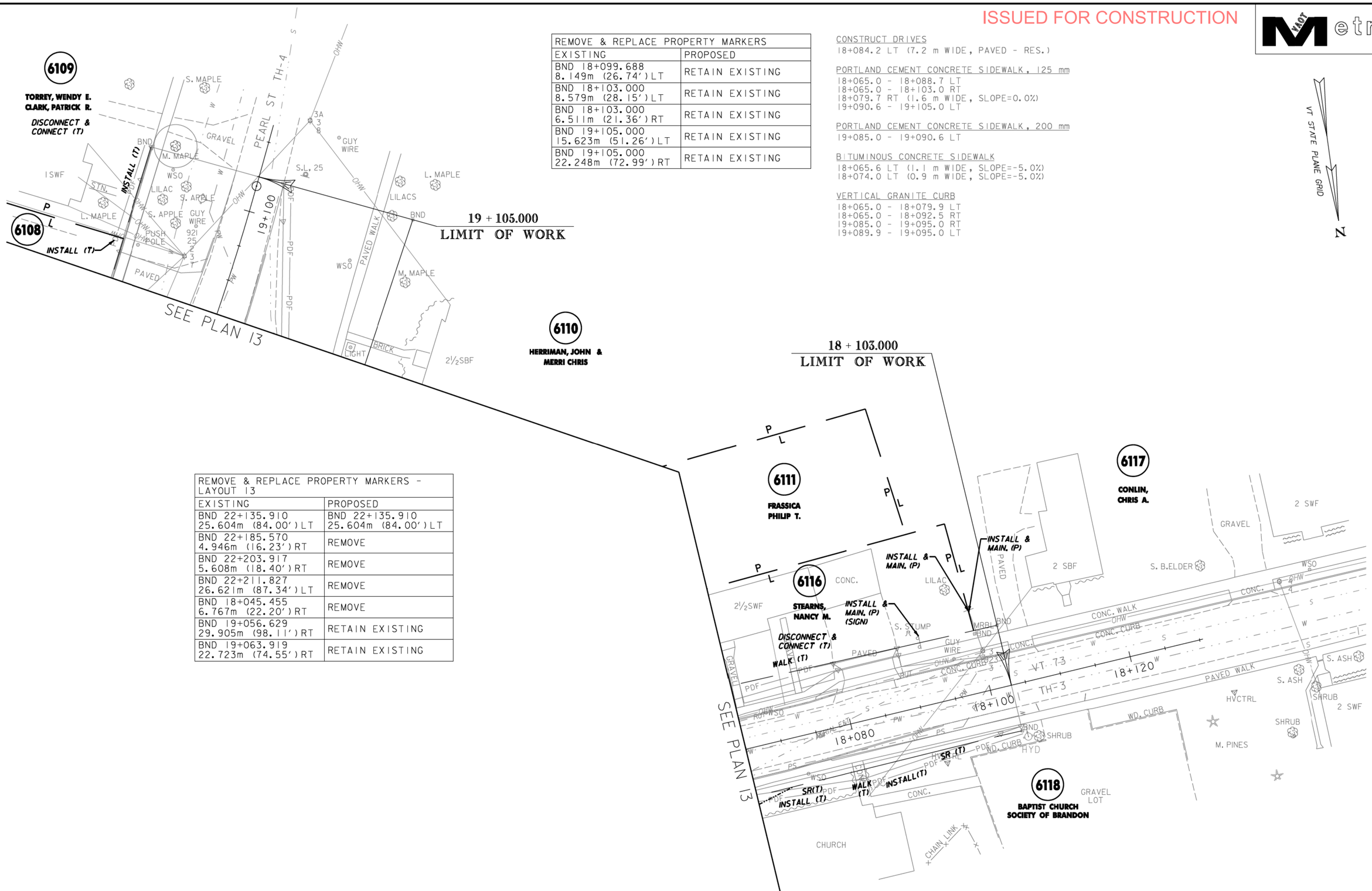
PORTLAND CEMENT CONCRETE SIDEWALK, 200 mm
19+085.0 - 19+090.6 LT

BITUMINOUS CONCRETE SIDEWALK
18+065.6 LT (1.1 m WIDE, SLOPE=-5.0%)
18+074.0 LT (0.9 m WIDE, SLOPE=-5.0%)

VERTICAL GRANITE CURB
18+065.0 - 18+079.9 LT
18+065.0 - 18+092.5 RT
19+085.0 - 19+095.0 RT
19+089.9 - 19+095.0 LT

VT STATE PLANE GRID
N

REMOVE & REPLACE PROPERTY MARKERS - LAYOUT 13	
EXISTING	PROPOSED
BND 22+135.910 25.604m (84.00')LT	BND 22+135.910 25.604m (84.00')LT
BND 22+185.570 4.946m (16.23')RT	REMOVE
BND 22+203.917 5.608m (18.40')RT	REMOVE
BND 22+211.827 26.621m (87.34')LT	REMOVE
BND 18+045.455 6.767m (22.20')RT	REMOVE
BND 19+056.629 29.905m (98.11')RT	RETAIN EXISTING
BND 19+063.919 22.723m (74.55')RT	RETAIN EXISTING



LINES SHOWN ON THIS PLAN AS EXISTING PROPERTY LINES (P/L) ARE BELIEVED TO BE ACCURATE BUT SHOULD NOT BE RELIED UPON FOR PURPOSES UNRELATED TO THE STATE OF VERMONT AND THE TOWN OF BRANDON ACQUISITION OF LAND AND RIGHTS FOR THIS PROJECT

0 10 20 30
SCALE IN METERS

RIGHT-OF-WAY LAYOUT 13A

PROJECT NAME: BRANDON
PROJECT NUMBER: NH 019-3(496)

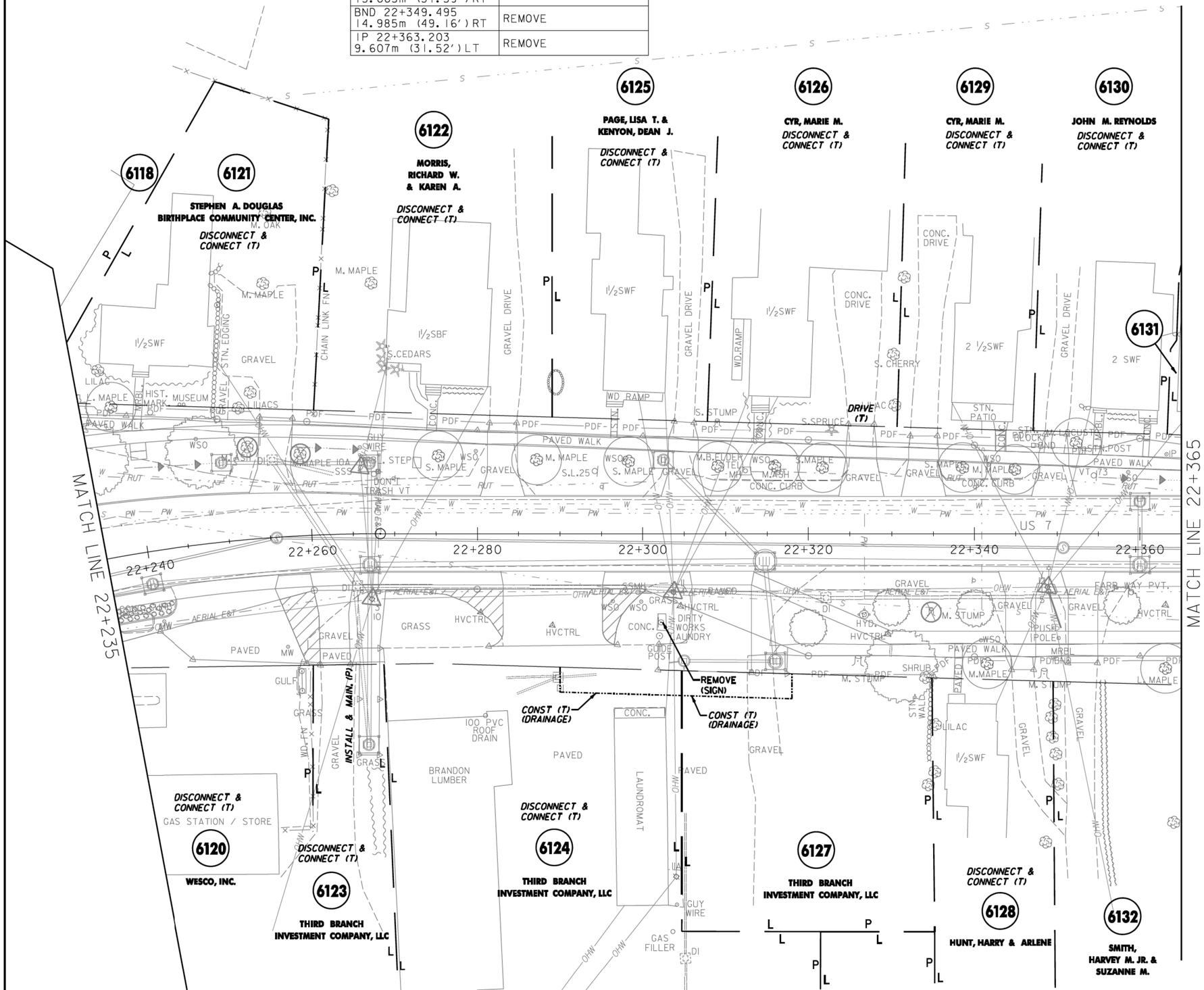
FILE NAME: zb008s6-Row.dgn
PROJECT LEADER: C. BEAN
DESIGNED BY: M. HALEY

PLOT DATE: 8/4/2016
DRAWN BY: S. GOODWIN
CHECKED BY: D. MUNRO
SHEET 49 OF 185
SHEET 75 OF 601

ISSUED FOR CONSTRUCTION

VAOT Metric

REMOVE & REPLACE PROPERTY MARKERS	
EXISTING	PROPOSED
BND 22+274.742 15.665m (51.39')RT	RETAIN EXISTING
BND 22+349.495 14.985m (49.16')RT	REMOVE
IP 22+363.203 9.607m (31.52')LT	REMOVE



CONSTRUCT DRIVES
22+248.9 RT (12.0 m WIDE, PAVED - COMM.)
22+255.8 LT (4.0 m WIDE, GRAVEL - RES., PAVE TO SWLK)
22+262.2 RT (4.8 m WIDE, PAVED - RES.)
22+283.1 LT (3.6 m WIDE, GRAVEL - RES., PAVE TO SWLK)
22+289.1 RT (12.0 m WIDE, PAVED - COMM.)
22+304.9 LT (3.6 m WIDE, GRAVEL - RES., PAVE TO SWLK)
22+309.5 RT (7.2 m WIDE, PAVED - COMM.)
22+326.4 LT (3.6 m WIDE, CONC.- RES., PAVE TO SWLK)
22+333.8 LT (3.6 m WIDE, CONC.- RES., PAVE TO SWLK)
22+345.6 RT (3.6 m WIDE, GRAVEL - RES., PAVE TO SWLK)
22+349.6 LT (3.6 m WIDE, GRAVEL - RES., PAVE TO SWLK)
22+353.1 RT (3.6 m WIDE, GRAVEL - RES., PAVE TO SWLK)

PORTLAND CEMENT CONCRETE SIDEWALK, 125 mm
22+235.0 - 22+365.0 LT
22+235.0 - 22+242.7 RT
22+240.8 LT (1.0 m WIDE, SLOPE= 2.6%)
22+255.1 - 22+281.6 RT
22+274.5 LT (1.2 m WIDE, SLOPE= 0.7%)
22+296.7 - 22+304.4 RT
22+314.0 LT (1.4 m WIDE, SLOPE= 2.0%)
22+314.7 - 22+365.0 RT
22+343.2 LT (1.3 m WIDE, SLOPE=-5.0%)
22+360.7 LT (0.8 m WIDE, SLOPE=-1.0%)

PORTLAND CEMENT CONCRETE SIDEWALK, 200 mm
22+281.6 - 22+296.7 RT
22+304.4 - 22+314.7 RT

BITUMINOUS CONCRETE SIDEWALK
22+338.1 RT (0.9 m WIDE, SLOPE= 2.0%)
22+242.7 - 22+255.1 RT

SPECIAL PROVISION (REMOVE AND RESET STONE WALKWAY)
22+296.5 LT (0.8 m WIDE, SLOPE= 2.6%)
22+354.8 LT (1.0 m WIDE, SLOPE=-4.0%)

VERTICAL GRANITE CURB
22+235.0 - 22+242.1 RT
22+235.0 - 22+252.9 LT
22+255.7 - 22+259.6 RT
22+258.4 - 22+280.4 LT
22+265.1 - 22+282.8 RT
22+285.8 - 22+302.2 LT
22+295.4 - 22+305.6 RT
22+307.6 - 22+323.7 LT
22+313.4 - 22+342.9 RT
22+336.5 - 22+346.9 LT
22+352.3 - 22+365.0 LT
22+355.8 - 22+365.0 RT

GRANITE SLOPE EDGING
22+235.0 - 22+242.7 RT (BEHIND SWLK/ISLAND)

SPECIAL PROVISION (REMOVE AND RESET MARBLE SLAB)
22+272.7 LT (MRBL. STEP)

REMOVING TREES
REMOVING STUMPS
22+253.1 LT (M)
22+259.1 LT (M)

EXCAVATION OF SURFACES AND PAVEMENTS (PLACE 100mm TOPSOIL, SEED, FERTILIZER, LIMESTONE AND HAY MULCH)
22+255.6 - 22+260.4 RT
22+268.9 - 22+283.1 RT
22+295.1 - 22+300.3 RT

LINES SHOWN ON THIS PLAN AS EXISTING PROPERTY LINES (P/L) ARE BELIEVED TO BE ACCURATE BUT SHOULD NOT BE RELIED UPON FOR PURPOSES UNRELATED TO THE STATE OF VERMONT AND THE TOWN OF BRANDON ACQUISITION OF LAND AND RIGHTS FOR THIS PROJECT

0 10 20 30
SCALE IN METERS

RIGHT-OF-WAY LAYOUT 14

PROJECT NAME: BRANDON
PROJECT NUMBER: NH 019-3(496)

FILE NAME: zb008s6-Row.dgn
PROJECT LEADER: C. BEAN
DESIGNED BY: M. HALEY
PLOT DATE: 8/4/2016
DRAWN BY: S. GOODWIN
CHECKED BY: D. MUNRO
SHEET 50 OF 185
SHEET 76 OF 601

ISSUED FOR CONSTRUCT

VAOT Metric

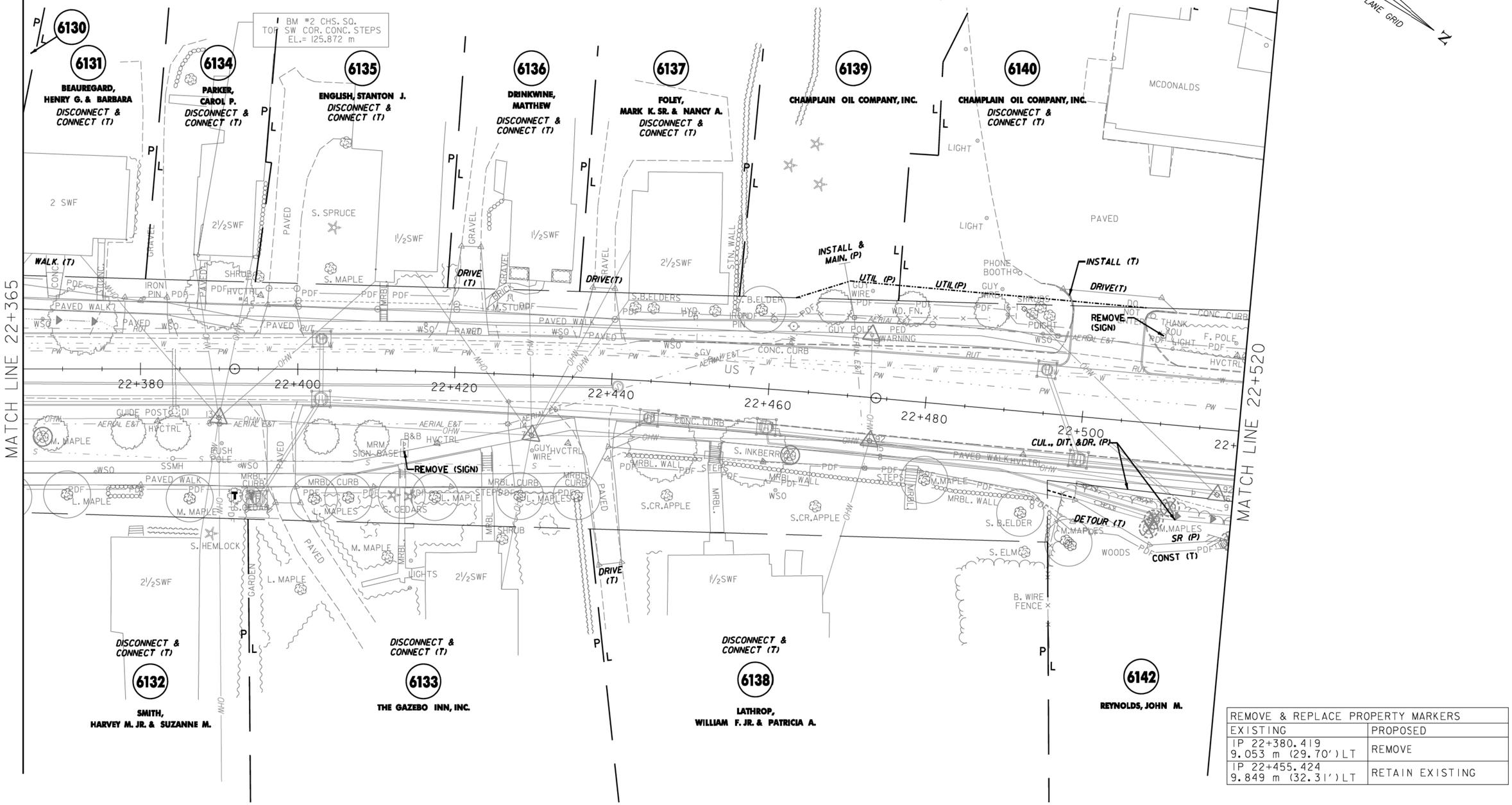
CONSTRUCT DRIVES
22+380.7 LT (5.4 m WIDE, GRAVEL - RES., PAVE TO SWLK)
22+397.9 LT (4.8 m WIDE, PAVED - RES.)
22+398.0 RT (3.6 m WIDE, PAVED - RES.)
22+421.5 LT (4.8 m WIDE, GRAVEL - RES.)
22+438.2 RT (4.8 m WIDE, PAVED - RES.)
22+438.3 LT (4.8 m WIDE, GRAVEL - RES.)
22+502.3 LT (9.1 m WIDE, PAVED - COMM.)

PORTLAND CEMENT CONCRETE SIDEWALK, 125 mm
22+365.0 - 22+497.7 LT
22+365.0 - 22+520.0 RT
22+368.9 LT (1.8 m WIDE, SLOPE=8.0%)
22+374.8 LT (0.8 m WIDE, SLOPE=3.0%)
22+413.6 RT (0.9 m WIDE, SLOPE=5.0%)
22+424.1 RT (1.5 m WIDE, SLOPE=0.5%)

BITUMINOUS CONCRETE SIDEWALK
22+387.7 LT (1.0 m WIDE, SLOPE=-4.0%)

SPECIAL PROVISION (REMOVE AND RESET BRICK WALKWAY)
22+423.6 LT (1.0 m WIDE, SLOPE=-5.7%)

SPECIAL PROVISION (REMOVE AND RESET STONE WALKWAY)
22+410.8 LT (0.9 m WIDE, SLOPE=0.0%)
22+453.8 RT (1.5 m WIDE, SLOPE=2.0%)



REMOVE & REPLACE PROPERTY MARKERS	
EXISTING	PROPOSED
IP 22+380.419 9.053 m (29.70') LT	REMOVE
IP 22+455.424 9.849 m (32.31') LT	RETAIN EXISTING

CONSTRUCT CONCRETE STEPS
22+410.8 LT (0.9 m WIDE, 3 RISERS)
22+413.6 RT (0.9 m WIDE, 3 RISERS)
22+424.1 RT (1.5 m WIDE, 7 RISERS)
22+453.8 RT (1.5 m WIDE, 9 RISERS)

SPECIAL PROVISION (METAL HAND RAILING)
22+410.4 LT
22+411.1 LT
22+413.3 RT
22+413.9 RT
22+423.8 RT
22+425.0 RT
22+453.2 RT
22+454.4 RT

VERTICAL GRANITE CURB
22+365.0 - 22+377.7 LT
22+365.0 - 22+395.3 RT
22+383.7 - 22+395.2 LT
22+399.8 - 22+413.1 RT (BEHIND SWLK)
22+400.5 - 22+418.8 LT
22+400.7 - 22+435.5 RT
22+414.0 - 22+423.5 RT (BEHIND SWLK)
22+424.2 - 22+435.6 LT
22+440.9 - 22+520.0 RT
22+441.0 - 22+497.7 LT
22+506.8 - 22+520.0 LT

SPECIAL PROVISION (REMOVE AND RESET STONE WALL)
22+442.1 - 22+452.1 RT
22+454.7 - 22+465.0 RT

REMOVING TREES
22+367.5 RT (M)
22+394.1 RT (S)
22+463.3 RT (S)

LINES SHOWN ON THIS PLAN AS EXISTING PROPERTY LINES (P/L) ARE BELIEVED TO BE ACCURATE BUT SHOULD NOT BE RELIED UPON FOR PURPOSES UNRELATED TO THE STATE OF VERMONT AND THE TOWN OF BRANDON ACQUISITION OF LAND AND RIGHTS FOR THIS PROJECT

0 10 20 30
SCALE IN METERS

RIGHT-OF-WAY LAYOUT 15

PROJECT NAME: BRANDON
PROJECT NUMBER: NH 019-3(496)

FILE NAME: zb008s6-Row.dgn
PROJECT LEADER: C. BEAN
DESIGNED BY: M. HALEY
PLOT DATE: 8/4/2016
DRAWN BY: S. GOODWIN
CHECKED BY: D. MUNRO
SHEET 51 OF 185
SHEET 77 OF 601

ISSUED FOR CONSTRUCTION

VAOT Metric

CONSTRUCT DRIVES
22+544.2 LT (9.1 m WIDE, PAVED - COMM.)
22+557.4 LT (6.0 m WIDE, PAVED - COMM.)
22+583.4 LT (16.0 m WIDE, PAVED - COMM.)
22+624.0 LT (12.0 m WIDE, PAVED - COMM.)

PORTLAND CEMENT CONCRETE SIDEWALK, 125 mm
22+520.0 - 22+662.0 RT

VERTICAL GRANITE CURB
22+520.0 - 22+539.6 LT
22+520.0 - 22+662.0 RT
22+548.8 - 22+554.4 LT
22+560.4 - 22+575.4 LT (GRASS ISLAND)
22+591.4 - 22+618.0 LT (GRASS ISLAND)

REMOVAL OF EXISTING FENCE
22+639.0 - 22+650.9 LT

WOVEN WIRE FENCE WITH STEEL POSTS
22+639.0 - 22+640.3 LT
22+643.2 - 22+650.9 LT

STEEL BRACE FOR WOVEN WIRE FENCE
22+639.0 LT (2)
22+640.3 LT
22+643.2 LT
22+650.9 LT (2)

REMOVE & REPLACE PROPERTY MARKERS	
EXISTING	PROPOSED
BND 22+529.318 15.963m (52.37') LT	RETAIN EXISTING
IP 22+643.254 9.577m (31.42') LT	REMOVE
BND 22+680.000 12.575m (41.26') LT	RETAIN EXISTING
BND 22+680.000 12.575m (41.26') RT	RETAIN EXISTING

VT STATE PLANE GRID N

6140
CHAMPLAIN OIL COMPANY INC.

6141
JLB BRANDON ENTERPRISES, INC.
DISCONNECT & CONNECT (T)

6142
REYNOLDS, JOHN M.

6143
ELEMENTAL PARTNERS, LLC
MELTZNER, CRAIG S. AND WALTER, ELAINE I.
CO-TRUSTEES OF THE CRAIG S. MELTZNER AND ELAINE I. WALTER REVOCABLE TRUST
U/T/A JANUARY 23, 1998

6145
NOPS DAIRY LLC

PLESENT, LARRY

22 + 630.000
END PROJECT
NH 019-3(496)
BEGIN APPROACH

22 + 680.000
END APPROACH

22+555.785 15.368m (50.42') LT
22+555.502 2.799m (9.18') LT
22+555.220 9.771m (32.06') RT
22+592.330 10.605m (34.79') RT
22+592.613 1.965m (6.45') LT
22+636.974 0.968 m (3.18') LT
22+637.256 13.538m (44.42') LT
22+679.657 12.585m (41.29') LT
22+679.657 0.009m (0.03') LT
22+679.657 12.568m (41.23') RT

81.492m (267.36')
37.120m (121.78')
37.120m (121.79')
44.372m (145.58')
42.41m (139.14')
42.694m (140.07')
87.349m (286.58')
12.573m (41.25')
12.576m (41.26')

REMOVE (SIGN)
REMOVE (T)
INSTALL (T) (FENCE)
REMOVE (T) (FENCE)
CONST. (T)
DIT. & DR. (P)
CUL., DIT. & DR. (P)
SR (P)
SR(T)
INSTALL & MAIN. (P)
UTIL(P)
W. WIRE FENCE
CHAIN LINK FENCE
ABANDONED QUARRY
WETLAND #23
CLASS 2
PEMB
PAVED SHOULDER
PAVED WALK
WD. FENCE
US 7
SL 40 THROUGH WAY BEGIN HERE
SCHOOL ZONE SPEED LIMIT 25 WHEN FLASHING

MATCH LINE 22+520 SEE ABOVE

MATCH LINE SEE BELOW

STA 22+511.0 RT - 22+609.0 RT
STORMWATER TREATMENT GRASS CHANNEL
DISCHARGE PERMIT #4164 - INDS

END R.O.W. PROJECT
NH 019-3(496)
STA 22+729.440
11.466m (37.62') LT

LINES SHOWN ON THIS PLAN AS EXISTING PROPERTY LINES (P/L) ARE BELIEVED TO BE ACCURATE BUT SHOULD NOT BE RELIED UPON FOR PURPOSES UNRELATED TO THE STATE OF VERMONT AND THE TOWN OF BRANDON ACQUISITION OF LAND AND RIGHTS FOR THIS PROJECT

0 10 20 30
SCALE IN METERS

RIGHT-OF-WAY LAYOUT 16

PROJECT NAME: BRANDON
PROJECT NUMBER: NH 019-3(496)

FILE NAME: zb008s6-Row.dgn
PROJECT LEADER: C. BEAN
DESIGNED BY: M. HALEY

PLOT DATE: 8/4/2016
DRAWN BY: S. GOODWIN
CHECKED BY: D. MUNRO
SHEET 52 OF 185
SHEET 78 OF 601

ISSUED FOR CONSTRUCTION

Metric

GPS CONTROL POINTS

HVCTRL #1

Standard Disk Stamped

Lawes Az Mk
NORTH = 145296.511
EAST = 451771.328
ELEV. = 128.496

GENERAL LOCATION, BRANDON, VT. TO REACH FROM THE INTERSECTION OF U.S. ROUTE 7 AND VT ROUTE 73 WEST AT THE NORTH END OF BRANDON VILLAGE GO NORTH ALONG U.S. ROUTE 7 FOR 0.5 MI (0.8 KM) TO THE INTERSECTION OF STEINBERG ROAD LEFT AND THE MARK ON THE LEFT IN THE NORTHWEST QUADRANT OF THE INTERSECTION. THE MARK IS SET FLUSH WITH GROUND SURFACE IN THE TOP OF A 0.3 M (1.0 FT) X 0.3 M (1.0 FT) ROCK OUTCROP. IT IS 11.8 M (38.7 FT) WEST SOUTHWEST OF AND ABOUT 1.2 M (3.9 FT) LOWER THAN THE CENTERLINE OF U.S. ROUTE 7, 17.9 M (58.7 FT) NORTH OF THE CENTERLINE OF STEINBERG ROAD, 9.0 M (29.5 FT) EAST OF THE MOST EASTERLY OF THREE 1 CM SPRUCES, AND 9.3 M (30.5 FT) NORTHEAST OF POLE NO.16-1 AND A FIBERGLASS WITNESS POST.

HVCTRL #2

Standard Disk Stamped

Lawes
NORTH = 144536.590
EAST = 452253.941
ELEV. = 126.319

GENERAL LOCATION, BRANDON, VT. TO REACH FROM THE INTERSECTION OF U.S. ROUTE 7 AND VT ROUTE 73 WEST AT THE NORTH END OF BRANDON VILLAGE GO SOUTH ALONG U.S. ROUTE 7 FOR ABOUT 40 M (131.2 FT) TO THE INTERSECTION OF PEARL STREET RIGHT. TURN RIGHT AND GO SOUTHWEST ALONG PEARL STREET FOR ABOUT 70 M (229.7 FT) TO THE SITE OF MARK ON THE LEFT IN A GRASS STRIP BETWEEN PEARL STREET AND THE BRICK OTTER VALLEY GROCERY STORE. IT IS ABOUT OPPOSITE THE MOST SOUTHWESTERLY POINT OF A TRIANGULAR SHAPED TOWN PARK. THE MARK IS SET 3 CM BELOW GROUND SURFACE IN THE TOP OF A 30 CM DIAMETER CONCRETE MONUMENT. IT IS 5.1 M (16.7 FT) SOUTHEAST OF AND ABOUT LEVEL WITH THE CENTERLINE OF PEARL STREET, 10.8 M (35.4 FT) NORTHWEST OF THE WEST CORNER OF THE BRICK OTTER VALLEY GROCERY STORE, 25.7 M (84.3 FT) SOUTHWEST OF THE NORTH CORNER OF THE STORE, 9.8 M (32.2 FT) WEST OF A 60 CM MAPLE, AND 16.0 M (52.5 FT) SOUTHWEST OF POLE NO.3/6 AND A FIBERGLASS WITNESS POST.

HVCTRL #12

Standard Disk Stamped

GRIFFIN AZ MK
NORTH = 143797.385
EAST = 453448.005
ELEV. = 153.690

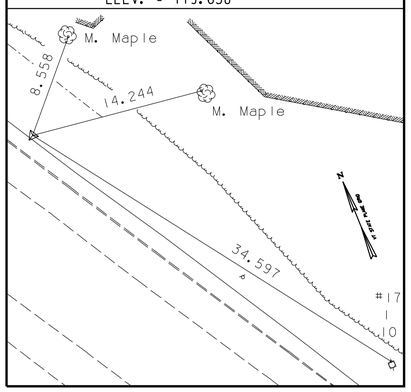
TO REACH FROM THE INTERSECTION OF U.S.ROUTE 7 AND VT ROUTE 73 EAST IN BRANDON VILLAGE GO SOUTH ALONG U.S.ROUTE 7 FOR 0.5 MI (0.8 KM) TO THE MARK ON THE LEFT BETWEEN THE BRANDON AMERICAN LEGION POST AND THE SUSAN HAYDEN VETERINARY OFFICE. THE MARK IS SET FLUSH WITH GROUND SURFACE IN THE TOP OF A MASSIVE SLOPING ROCK OUTCROP ON THE WEST EDGE OF AN OLD QUARRY HOLE. IT IS 28.4 M (93.2 FT) EAST OF AND ABOUT 1.5 M (4.9 FT) HIGHER THAN THE CENTERLINE OF U.S.ROUTE 7, 5.3 M (17.4 FT) NORTH OF THE NORTHEAST CORNER OF THE VETERINARY OFFICE, 6.4 M (21.0 FT) NORTHEAST OF THE NORTHWEST CORNER OF THE OFFICE, 39.5 M (129.6 FT) SOUTH OF THE SOUTHWEST CORNER OF THE AMERICAN LEGION POST, 1.4 M (4.6 FT) WEST OF THE WEST FACE OF A STONE BLOCK WALL ON THE WEST EDGE OF THE QUARRY HOLE, AND 0.6 M (2.0 FT) WEST OF A FIBERGLASS WITNESS POST.

• Description provided by Vermont Agency of Transportation Geodetic Survey Unit

TRAVERSE TIES

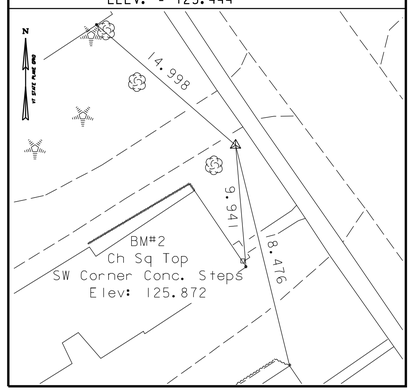
HVCTRL #3

NORTH = 144949.374
EAST = 451999.826
ELEV. = 119.658



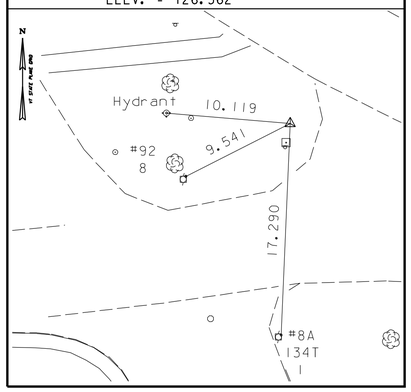
HVCTRL #4

NORTH = 144764.933
EAST = 452095.228
ELEV. = 125.444



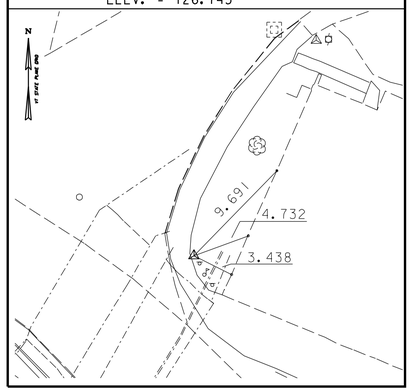
HVCTRL #5

NORTH = 144610.819
EAST = 452231.473
ELEV. = 126.562



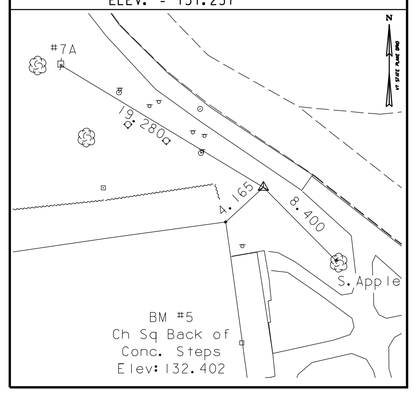
HVCTRL #6

NORTH = 144548.136
EAST = 452597.474
ELEV. = 126.745



HVCTRL #7

NORTH = 144376.290
EAST = 452664.679
ELEV. = 131.237

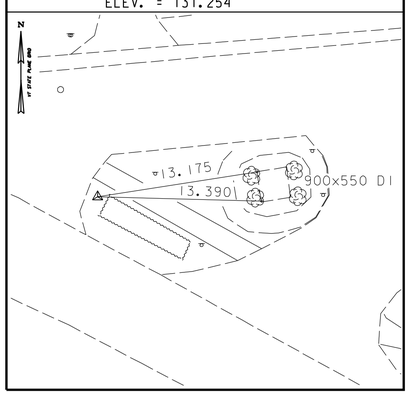


* Main Traverse Completed 05/04/99 by L.Orvis P.C. & J. Hulett & G. Wilson

TRAVERSE TIES

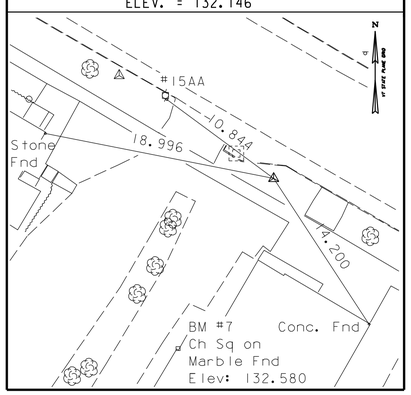
HVCTRL #8

NORTH = 144389.610
EAST = 452793.671
ELEV. = 131.254



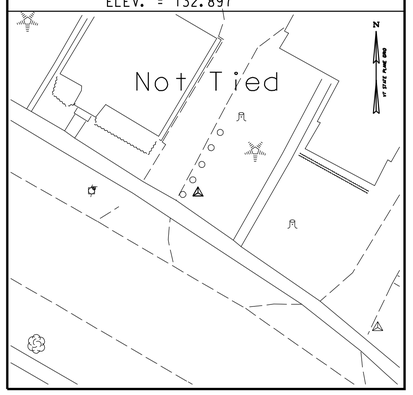
HVCTRL #9

NORTH = 144281.821
EAST = 452954.846
ELEV. = 132.146



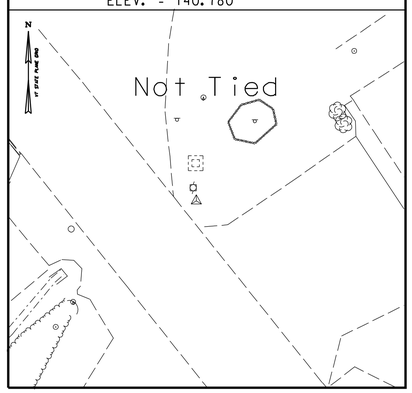
HVCTRL #10

NORTH = 144202.575
EAST = 453125.407
ELEV. = 132.897



HVCTRL #11

NORTH = 144004.282
EAST = 453290.136
ELEV. = 140.780



NOTE:
ALL TIE DISTANCES
ARE IN METERS.

TIE SHEET

DATUM

VERTICAL NAVD 88
HORIZONTAL NAD 83/96
ADJUSTMENT Least Squares

PROJECT NAME: BRANDON
PROJECT NUMBER: NH 019-3(496)

FILE NAME: zb008s6-ti.dgn
PROJECT LEADER: C. BEAN
DESIGNED BY: M. HALEY
PLOT DATE: 2/23/2017
DRAWN BY: S. GOODWIN
CHECKED BY: D. MUNRO
SHEET 79 OF 601

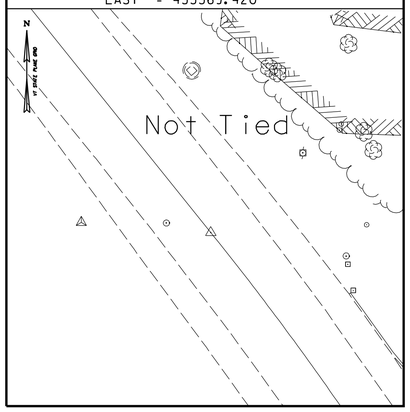
CLD 02-0448 MODEL:1

ISSUED FOR CONSTRUCTION

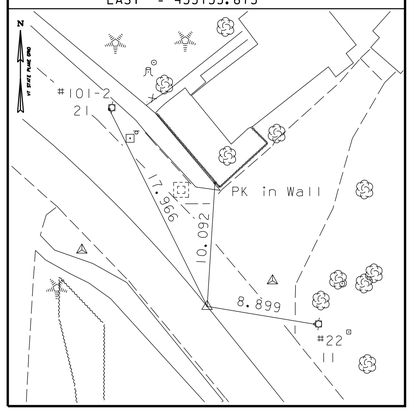
VDOT Metric

ALIGNMENT TIES

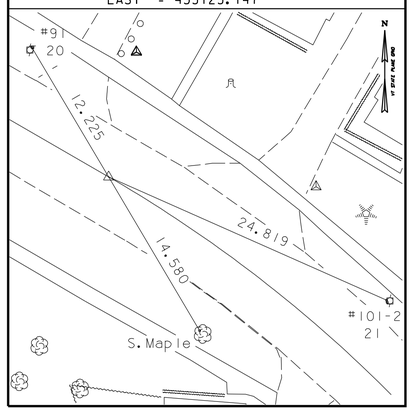
PT 20+744.180
NORTH = 143897.986
EAST = 453369.420



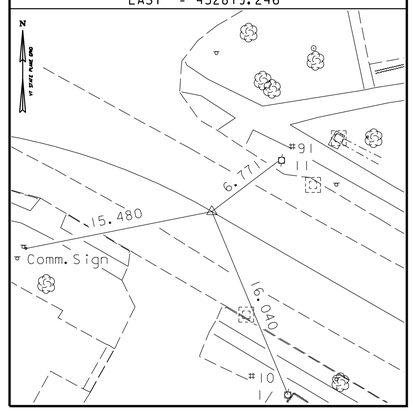
PC 21+088.520
NORTH = 144166.030
EAST = 453153.875



PT 21+129.220
NORTH = 144192.363
EAST = 453123.147



PC 21+480.122
NORTH = 144367.796
EAST = 452819.246

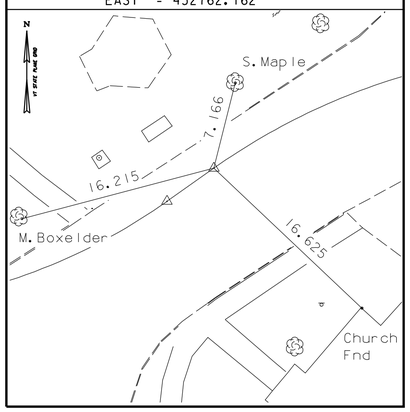


NOTE:
ALL TIE DISTANCES
ARE IN METERS.

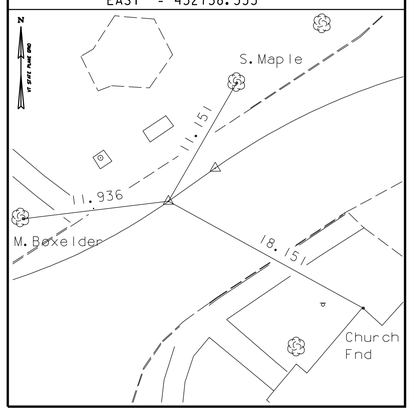
* Alignment Staked 08/22/03 by L/ Orvis P.C. & J. Hulett & B. Farley

ALIGNMENT TIES

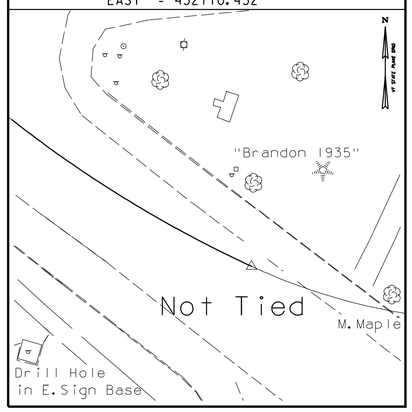
PT 21+540.475
NORTH = 144365.178
EAST = 452762.162



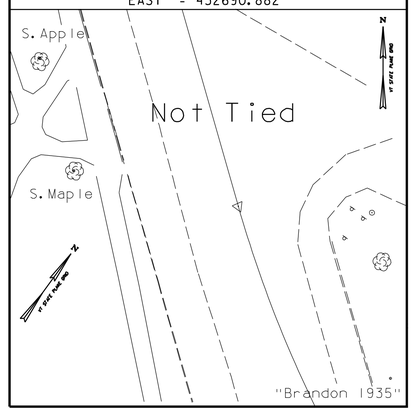
PC 21+545.164
NORTH = 144362.473
EAST = 452758.333



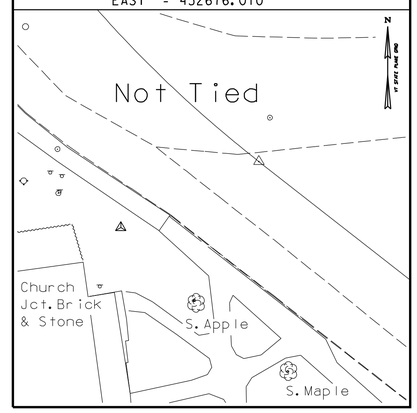
PCC 21+595.520
NORTH = 144358.120
EAST = 452710.452



PT 21+618.510
NORTH = 144370.088
EAST = 452690.882

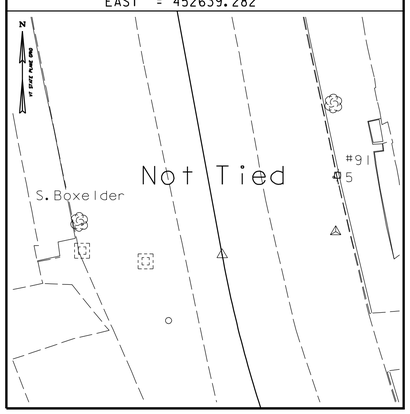


PC 21+637.390
NORTH = 144381.720
EAST = 452676.010

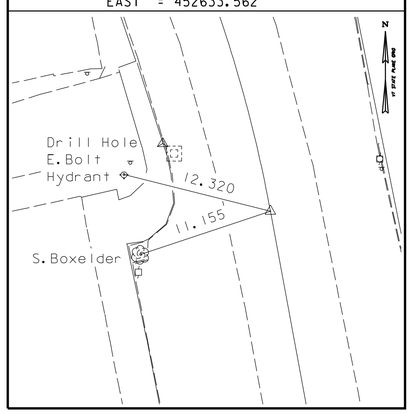


ALIGNMENT TIES

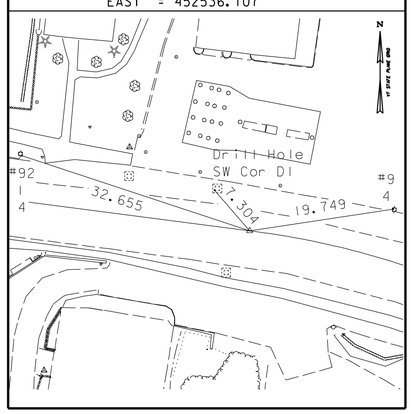
PT 21+709.842
NORTH = 144442.339
EAST = 452639.282



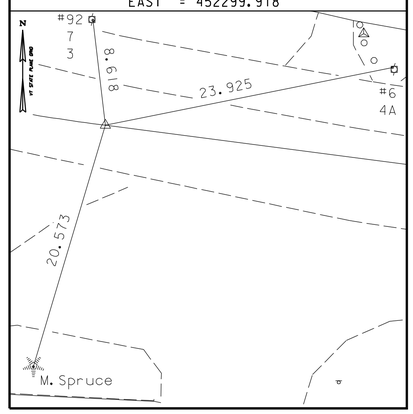
PC 21+741.120
NORTH = 144473.333
EAST = 452633.562



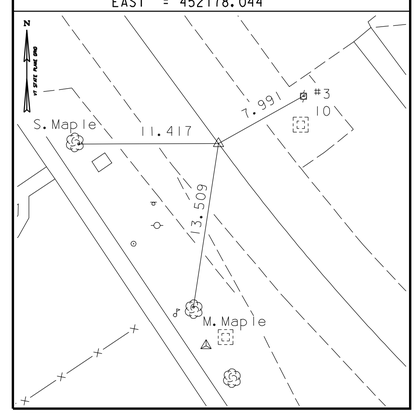
PT 21+884.695
NORTH = 144565.700
EAST = 452536.107



PC 22+122.859
NORTH = 144596.311
EAST = 452299.918



PT 22+268.265
NORTH = 144668.176
EAST = 452178.044



TIE SHEET

DATUM

VERTICAL	NAVD 88
HORIZONTAL	NAD 83/96
ADJUSTMENT	Least Squares

PROJECT NAME:	BRANDON
PROJECT NUMBER:	NH 019-3(496)

FILE NAME: zb008s6-ti.dgn		PLOT DATE:	2/23/2017
PROJECT LEADER:	C. BEAN	DRAWN BY:	S. GOODWIN
DESIGNED BY:	M. HALEY	CHECKED BY:	D. MUNRO
		SHEET	80 OF 601

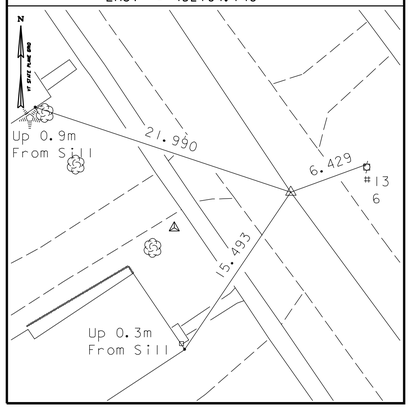
CLD 02-0448 MODEL: 2

ISSUED FOR CONSTRUCTION

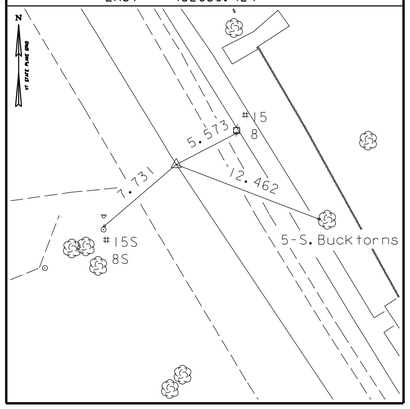
VAOT Metric

ALIGNMENT TIES

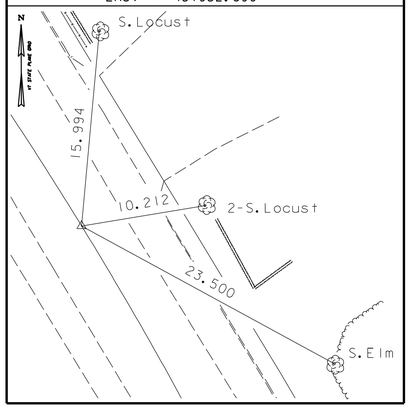
PC 22+391.981
NORTH = 144767.842
EAST = 452104.748



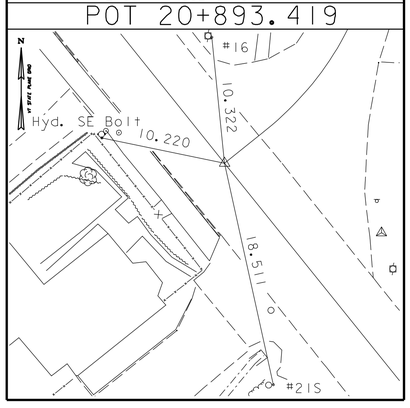
PT 22+473.628
NORTH = 144835.720
EAST = 452059.424



POT 22+680.000
NORTH = 145012.348
EAST = 451952.699



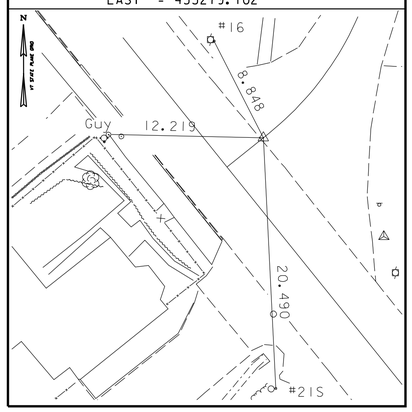
POB 40+000.000
NORTH = 144013.989
EAST = 453276.137
POT 20+893.419



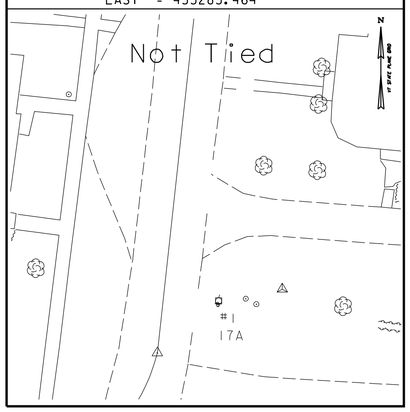
NOTE:
ALL TIE DISTANCES
ARE IN METERS.

ALIGNMENT TIES

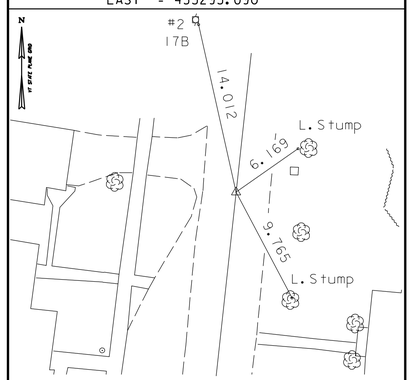
PC 40+003.804
NORTH = 144016.373
EAST = 453279.102



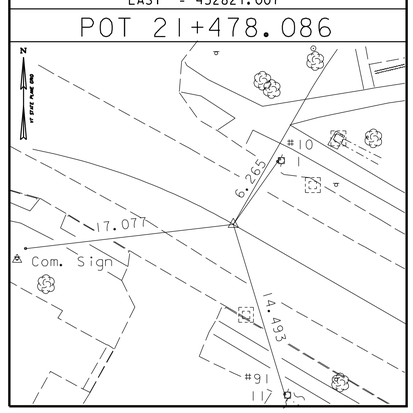
PT 40+025.790
NORTH = 144035.166
EAST = 453283.464



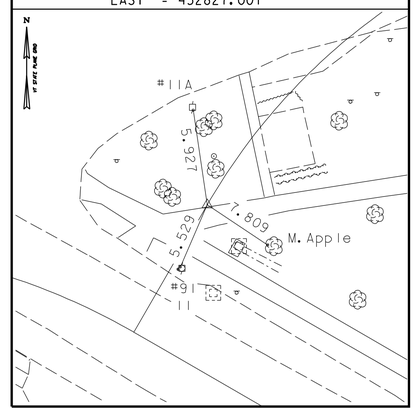
POT 40+060.000
NORTH = 144069.175
EAST = 453293.090



POB 36+000.000
NORTH = 144366.773
EAST = 452821.007
POT 21+478.086

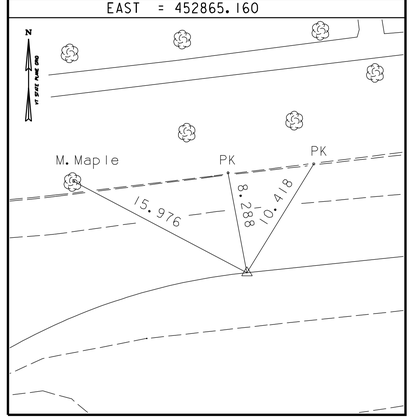


PC 36+011.990
NORTH = 144377.156
EAST = 452827.001

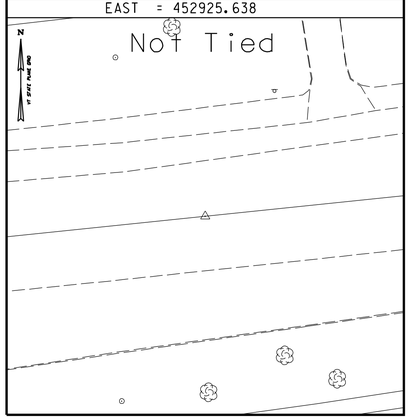


ALIGNMENT TIES

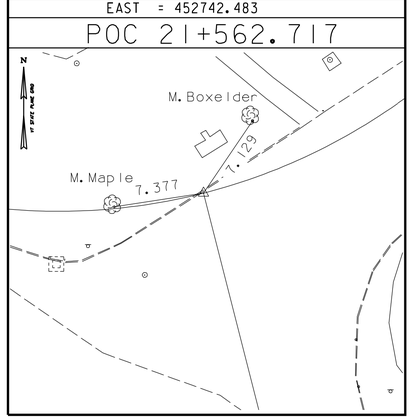
PT 36+059.200
NORTH = 144401.894
EAST = 452865.160



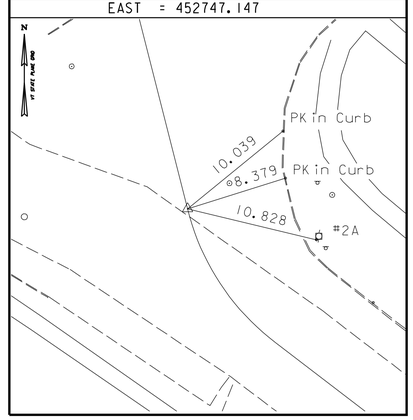
POT 36+120.000
NORTH = 144408.148
EAST = 452925.638



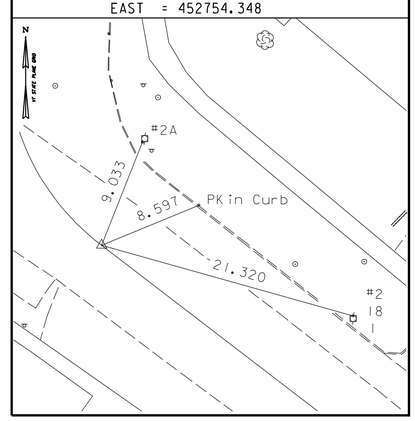
POB 34+000.000
NORTH = 144355.159
EAST = 452742.483
POC 21+562.717



PC 34+018.887
NORTH = 144336.856
EAST = 452747.147



PT 34+032.218
NORTH = 144325.931
EAST = 452754.348



TIE SHEET

DATUM

VERTICAL NAVD 88

HORIZONTAL NAD 83/96

ADJUSTMENT Least Squares

PROJECT NAME: BRANDON
PROJECT NUMBER: NH 019-3(496)

FILE NAME: zb008s6-ti.dgn
PROJECT LEADER: C. BEAN
DESIGNED BY: M. HALEY
PLOT DATE: 2/23/2017
DRAWN BY: S. GOODWIN
CHECKED BY: D. MUNRO
SHEET 81 OF 601

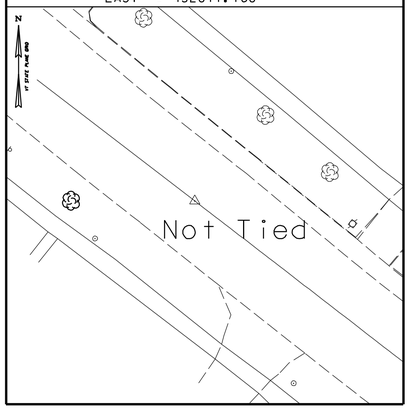
CLD 02-0448 MODEL: 3

ISSUED FOR CONSTRUCTION

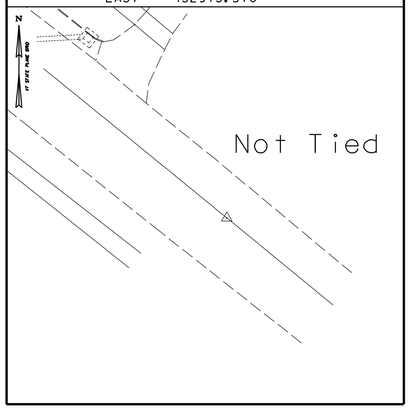
VAOT Metric

ALIGNMENT TIES

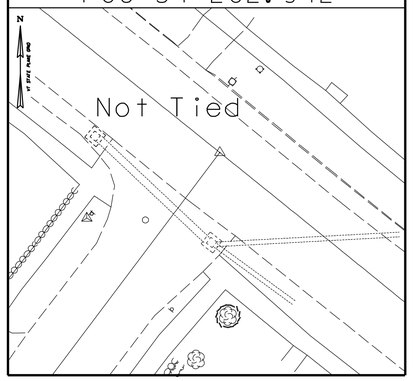
PC 34+111.416
NORTH = 144227.701
EAST = 452817.168



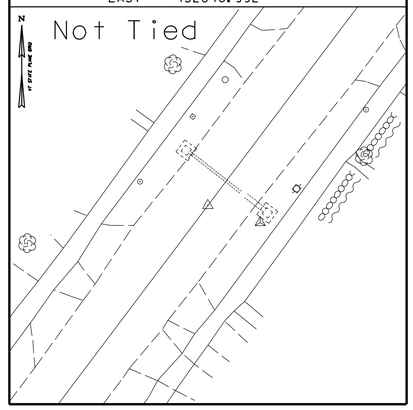
PT 34+237.009
NORTH = 144199.667
EAST = 452915.570



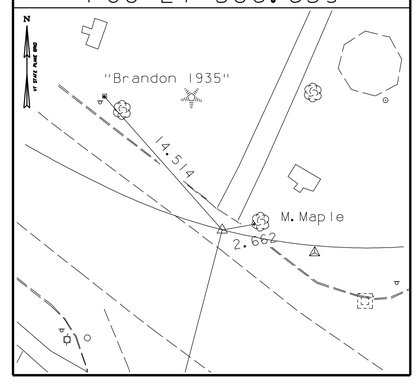
POB 37+000.000
NORTH = 144221.138
EAST = 452889.121
POC 34+202.942



POT 37+070.000
NORTH = 144165.235
EAST = 452846.992

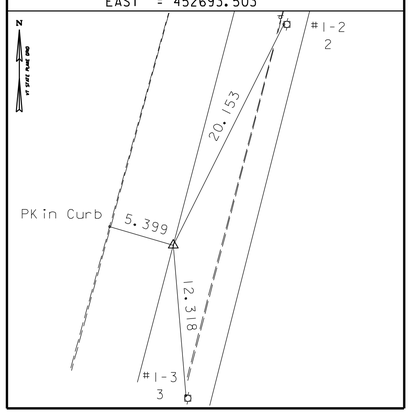


POB 35+000.000
NORTH = 144355.151
EAST = 452718.808
POC 21+586.639

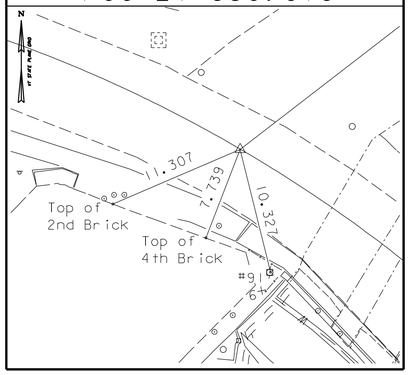


ALIGNMENT TIES

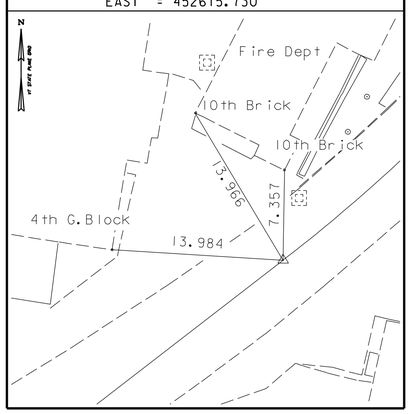
POT 35+100.000
NORTH = 144258.406
EAST = 452693.503



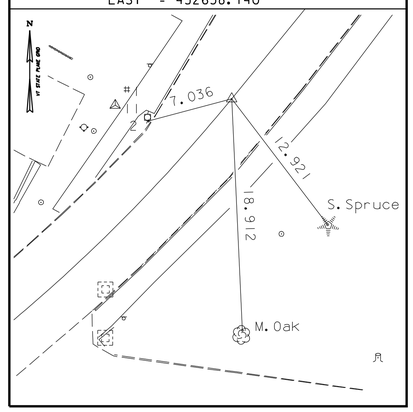
POB 9+000.000
NORTH = 144551.061
EAST = 452578.990
POC 21+839.078



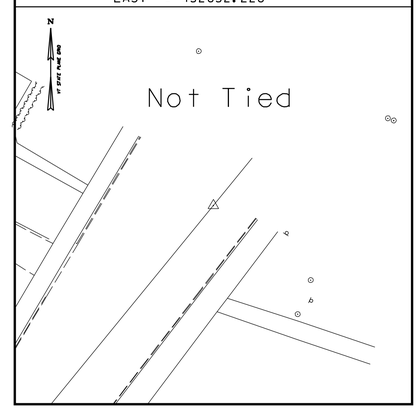
PC 9+046.432
NORTH = 144579.453
EAST = 452615.730



PT 9+077.757
NORTH = 144601.245
EAST = 452638.140

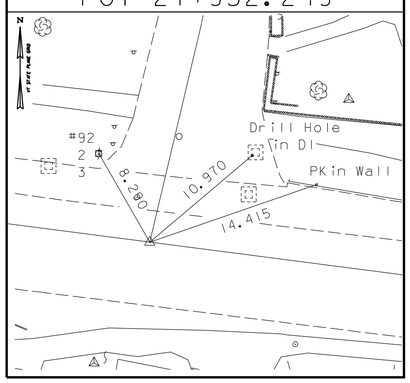


POT 9+100.000
NORTH = 144618.458
EAST = 452652.228

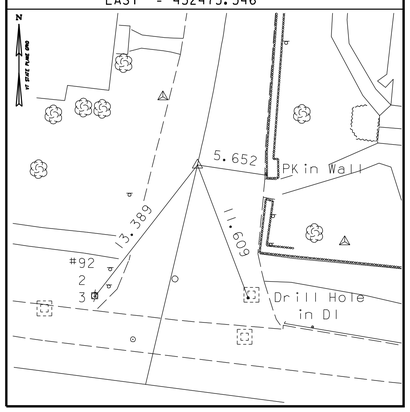


ALIGNMENT TIES

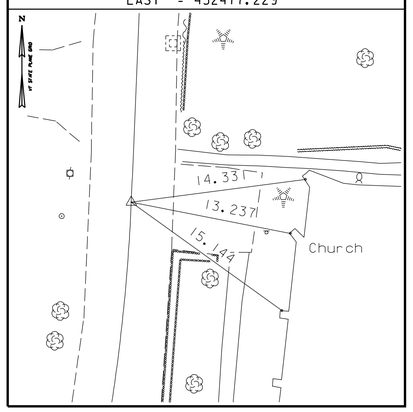
POB 8+000.000
NORTH = 144574.383
EAST = 452469.113
POT 21+952.249



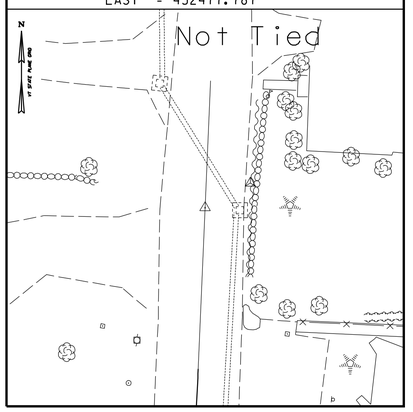
PC 8+018.411
NORTH = 144592.301
EAST = 452473.346



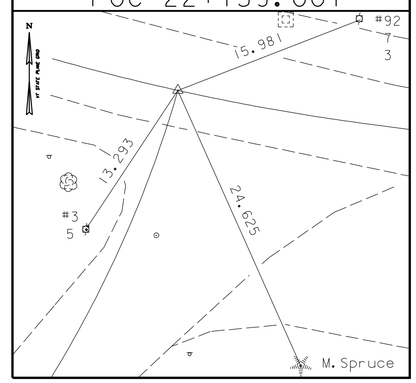
PT 8+046.842
NORTH = 144620.422
EAST = 452477.229



POT 8+060.000
NORTH = 144633.568
EAST = 452477.787



POB 19+000.000
NORTH = 144599.100
EAST = 452284.025
POC 22+139.001



TIE SHEET

DATUM

VERTICAL NAVD 88

HORIZONTAL NAD 83/96

ADJUSTMENT Least Squares

NOTE:
ALL TIE DISTANCES
ARE IN METERS.

PROJECT NAME: BRANDON
PROJECT NUMBER: NH 019-3(496)

FILE NAME: zb008s6-ti.dgn
PROJECT LEADER: C. BEAN
DESIGNED BY: M. HALEY

PLOT DATE: 2/23/2017
DRAWN BY: S. GOODWIN
CHECKED BY: D. MUNRO
SHEET 82 OF 601

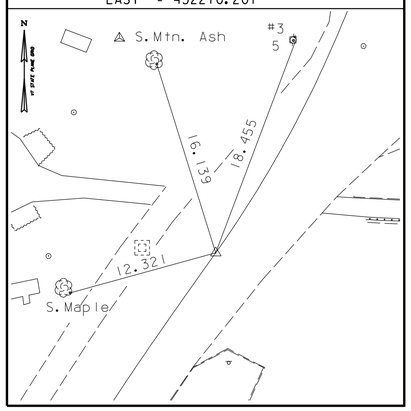
CLD 02-0448 MODEL: 4

ISSUED FOR CONSTRUCTION

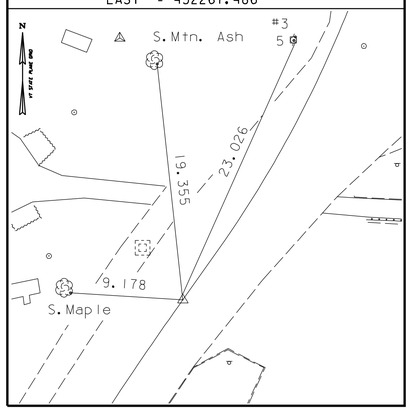
VDOT Metric

ALIGNMENT TIES

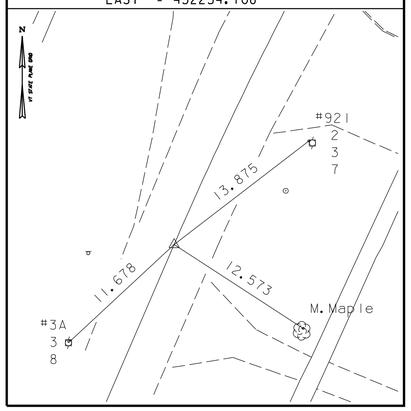
PT 19+032.004
NORTH = 144570.400
EAST = 452270.207



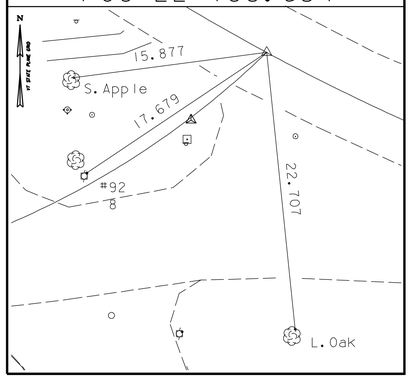
PC 19+036.706
NORTH = 144566.566
EAST = 452267.486



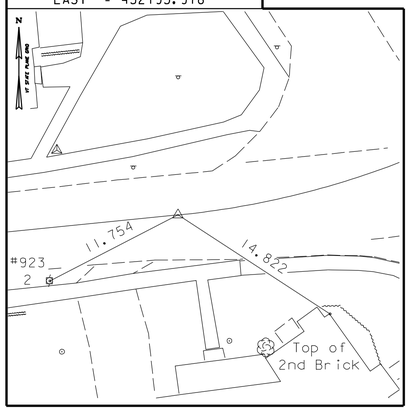
PT 19+103.671
NORTH = 144508.311
EAST = 452234.708



POB 18+000.000
NORTH = 144616.364
EAST = 452237.658
POC 22+188.634



PT 18+046.800
NORTH = 144597.059
EAST = 452195.978



ALIGNMENT TIES

POT 18+120.000
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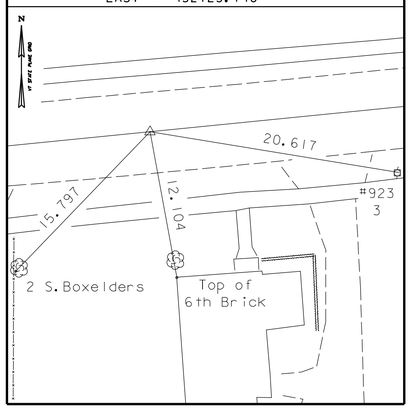
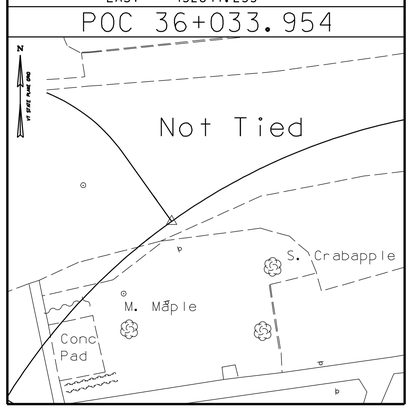
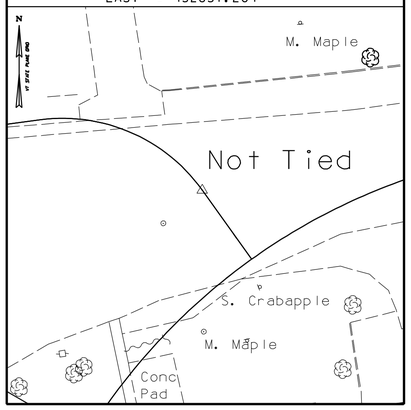
EAST = 452123.140



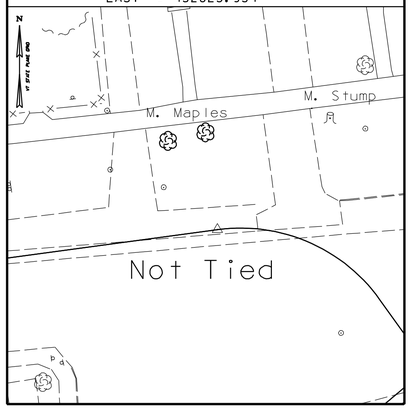
POB 30+000.000
NORTH = 144392.839
EAST = 452841.233
POC 36+033.954



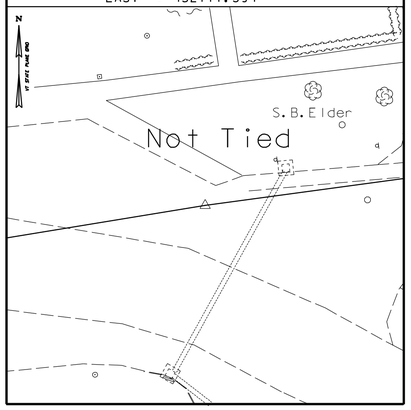
PC 30+006.929
NORTH = 144398.477
EAST = 452837.204



PT 30+022.119
NORTH = 144404.210
EAST = 452823.934

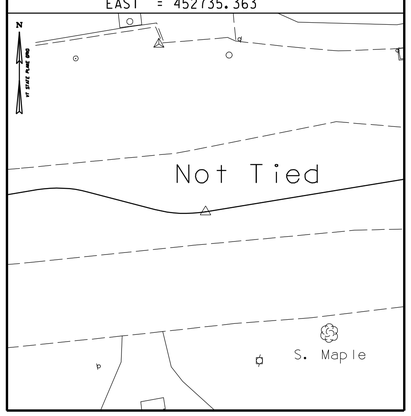


PI 30+069.084
NORTH = 144397.904
EAST = 452777.394

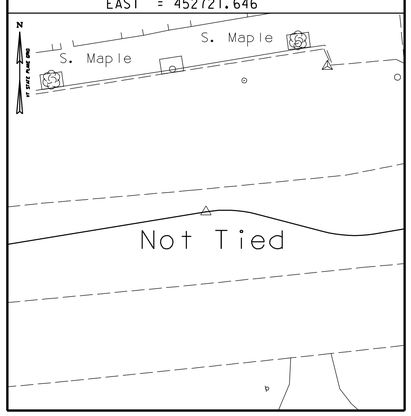


ALIGNMENT TIES

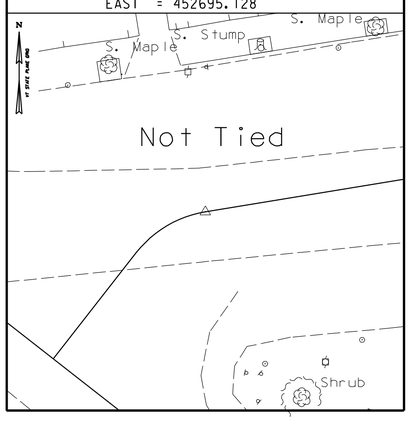
PC 30+111.677
NORTH = 144391.014
EAST = 452735.363



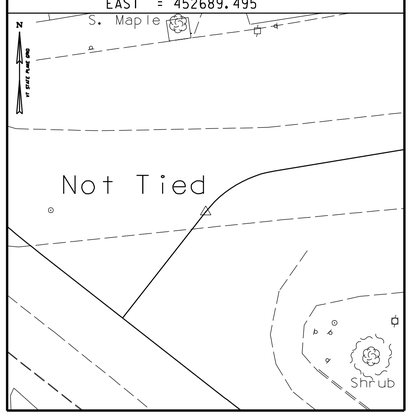
PT 30+125.646
NORTH = 144392.819
EAST = 452721.646



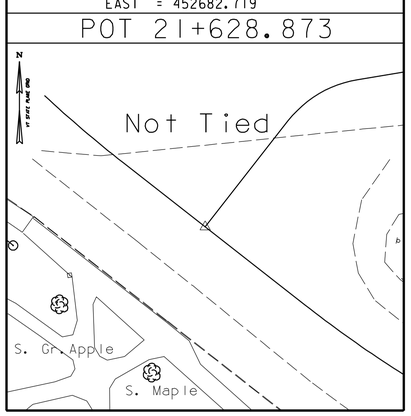
PC 30+152.518
NORTH = 144388.472
EAST = 452695.128



PT 30+159.219
NORTH = 144385.135
EAST = 452689.495



POE 30+170.216
NORTH = 144376.473
EAST = 452682.719
POT 21+628.873



TIE SHEET

DATUM

VERTICAL	NAVD 88
HORIZONTAL	NAD 83/96
ADJUSTMENT	Least Squares

NOTE:
ALL TIE DISTANCES
ARE IN METERS.

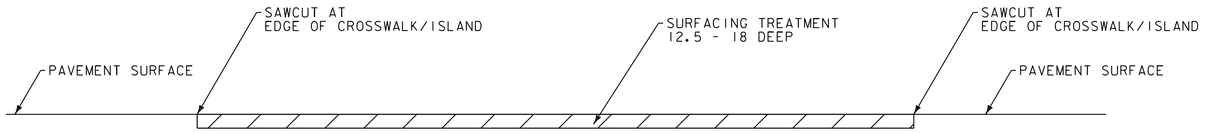
PROJECT NAME:	BRANDON
PROJECT NUMBER:	NH 019-3(496)

FILE NAME: zb0008s6-ti.dgn
PROJECT LEADER: C. BEAN
DESIGNED BY: M. HALEY
PLOT DATE: 2/23/2017
DRAWN BY: S. GOODWIN
CHECKED BY: D. MUNRO
SHEET 83 OF 601

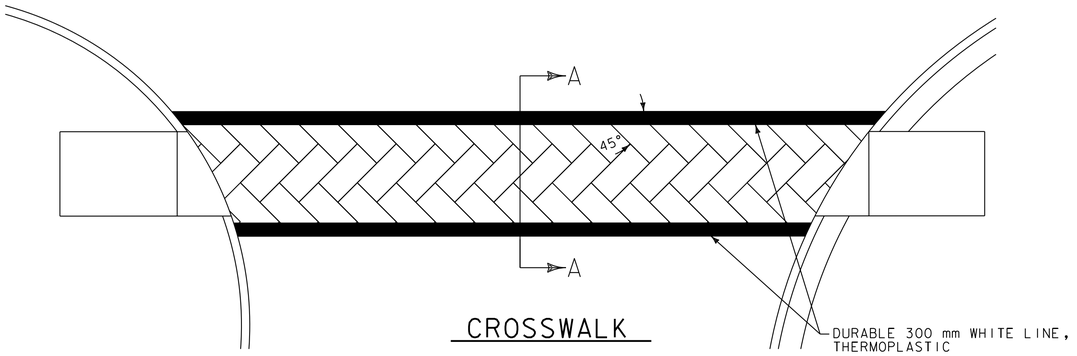
CLD 02-0448 MODEL: 5

ISSUED FOR CONSTRUCTION

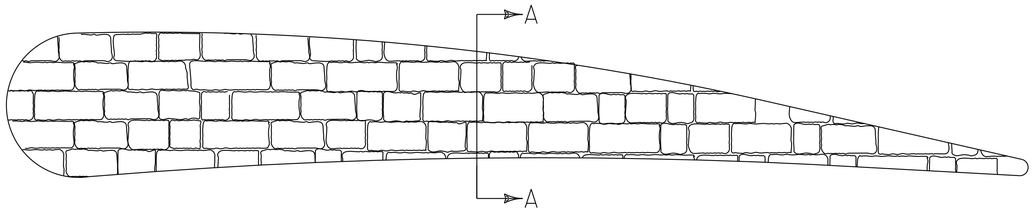
VDOT Metric



SECTION A-A



CROSSWALK



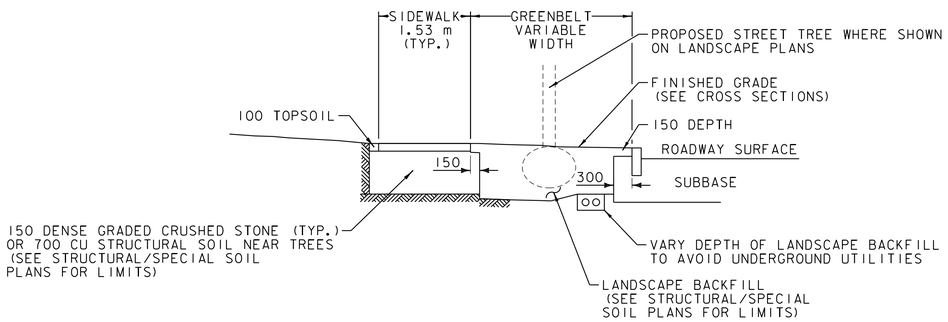
FLUSH ISLAND

NOTES:

1. SAWCUT PAVEMENT AT EDGES AND REMOVE PAVEMENT INSIDE THE CROSSWALK/ISLAND TO SPECIFIED DEPTHS.
2. SURFACING SHALL BE A HOT APPLIED MODIFIED SYNTHETIC ASPHALT COMPOUND.
3. MATERIAL GRADE OF THE SURFACING TREATMENT SHALL MEET THE REQUIREMENTS FOR HEAVILY TRAFFICKED ROADS AND NORTHERN U.S. TEMPERATURES.
4. INSTALL PER MANUFACTURERS INSTRUCTIONS.
5. CROSSWALKS:
   -SURFACING SHALL BE A THROUGH TERRA-COTTA COLOR MATERIAL, NOT SURFACE PAINTED.
   -SURFACE SHALL BE STAMPED WITH A 45 DEGREE HERRING-BONE PATTERN. STAMPED CROSSWALKS SHALL BE ADA COMPLIANT.
6. FLUSH ISLANDS:
   -SURFACING SHALL BE A THROUGH LIGHT GRAY COLOR MATERIAL, NOT SURFACE PAINTED.
   -SURFACE SHALL BE STAMPED WITH AN IRREGULAR GRANITE SETT PATTERN.
7. SURFACING WIDTH FOR CROSSWALK APPLICATION SHALL BE 1.8 m. LENGTH VARIES. REFER TO PLANS. SURFACING AREA FOR EACH FLUSH ISLAND IS DEFINED ON ALIGNMENT AND PAVEMENT LAYOUT PLANS.

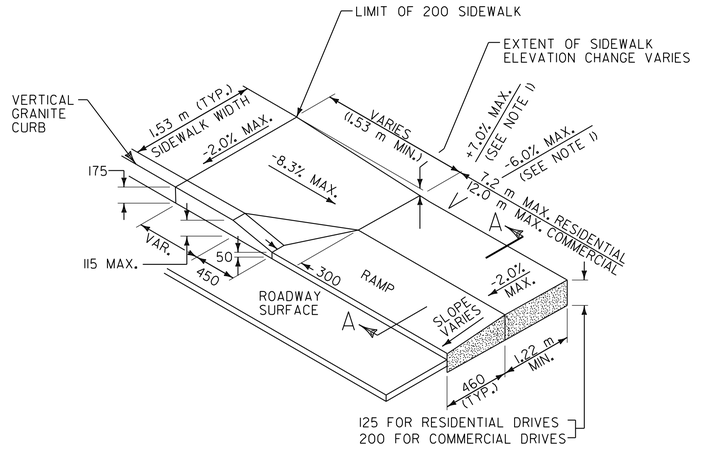
IMPRINTED / COLORIZED SURFACE DETAIL

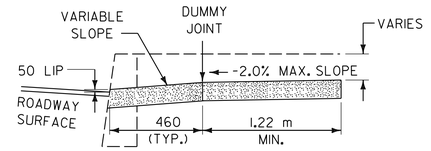
NOT TO SCALE



STRUCTURAL / SPECIAL SOIL FOR TYPICAL SIDEWALK / GREENBELT DETAIL

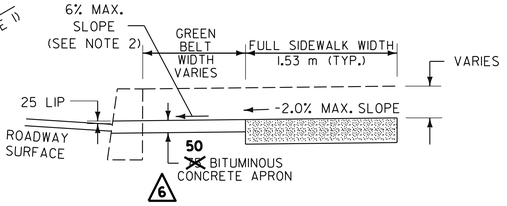
NOT TO SCALE





SECTION A-A

WITHOUT GREENBELT



SECTION B-B

WITH GREENBELT

DRIVE ENTRANCE WITH SIDEWALK DETAILS

NOT TO SCALE

NOTES:

1. THESE TYPICALS APPLY WHERE GRADE OF DRIVE BEHIND SIDEWALK IS BETWEEN -6.0% AND +7.0%. FOR GRADES IN EXCESS OF THESE, ALTERNATIVE CROSS SECTION OF RAMP AND SIDEWALK MAY BE APPROVED BY THE ENGINEER.
2. 6% MAX. DRIVE SLOPE IN GREENBELT DESIRED UNLESS OTHERWISE SHOWN ON THE PLANS OR DIRECTED BY THE ENGINEER.
3. DUMMY JOINTS SHALL BE PROVIDED AT TRANSITIONS (GRADE CHANGES) OF RAMPS AND FLARES.
4. DRIVEWAY RAMPS TO BE PAID FOR AS PORTLAND CEMENT CONCRETE SIDEWALK.
5. IN NO CASE SHALL THE CROSS SLOPE OF AN ACCESSIBLE ROUTE EXCEED 2.0%.
6. ASPHALT TREATED FELT SHALL BE USED BETWEEN SIDEWALK AND VERTICAL GRANITE CURB.
7. WHEN THE GREEN BELT WIDTH EXCEEDS 3.0 METERS, BITUMINOUS CONCRETE APRON FLARE SHALL END 3.0 METERS FROM THE EDGE OF THE ROADWAY SURFACE.

REV	DATE	DESCRIPTION
6	5/15/2017	DESIGN CLARIFICATION-I: 50 mm BCP DRIVEWAY PER B-71.

MISCELLANEOUS DETAILS
IMPRINTED / COLORIZED SURFACES
DRIVE ENTRANCE
STRUCTURAL/SPECIAL SOIL

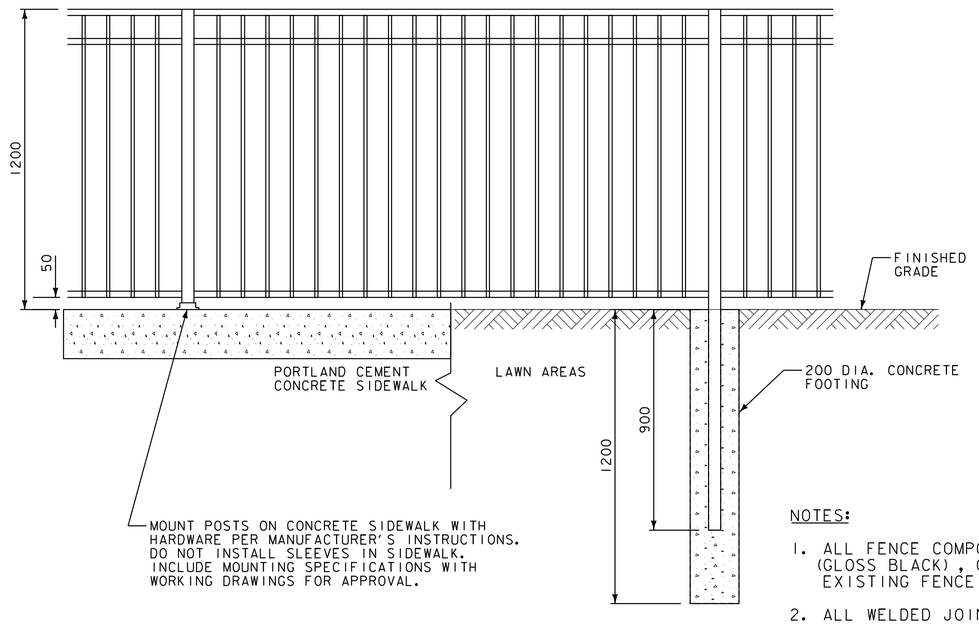
PROJECT NAME: BRANDON
PROJECT NUMBER: NH 019-3(496)

FILE NAME: $FILEABBREV$
PROJECT LEADER: C. BEAN
DESIGNED BY: M. HALEY
PLOT DATE: $DATE$
DRAWN BY: S. GOODWIN
CHECKED BY: D. MUNRO
SHEET 84 OF 601

CLD 02-0448 MODEL:1

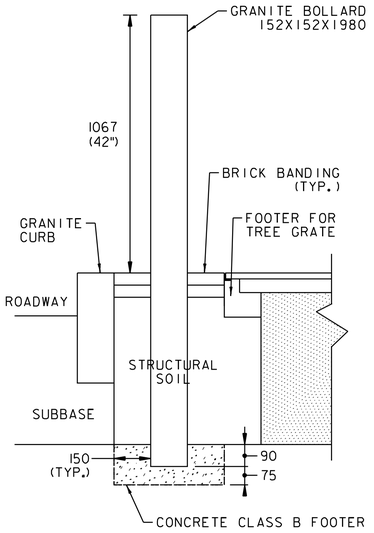
ISSUED FOR CONSTRUCTION

Metric



SQUARE STEEL FENCE DETAIL

NOT TO SCALE

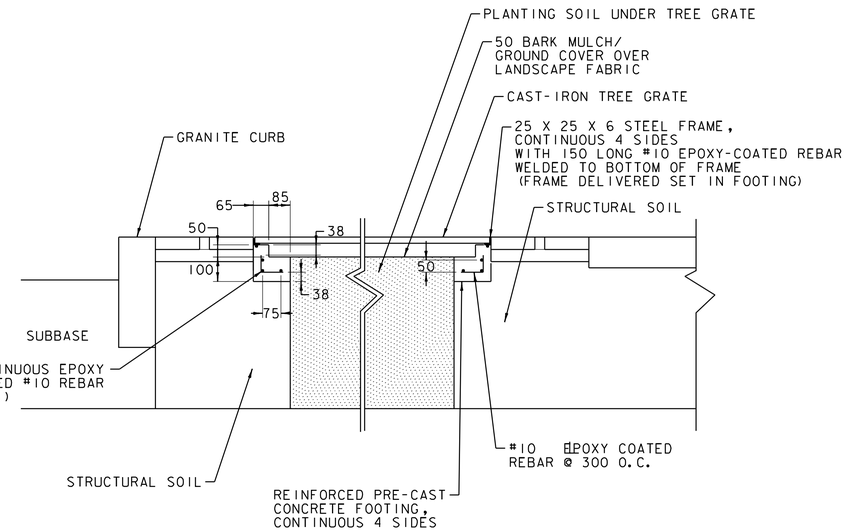


BOLLARD DETAIL

NOT TO SCALE

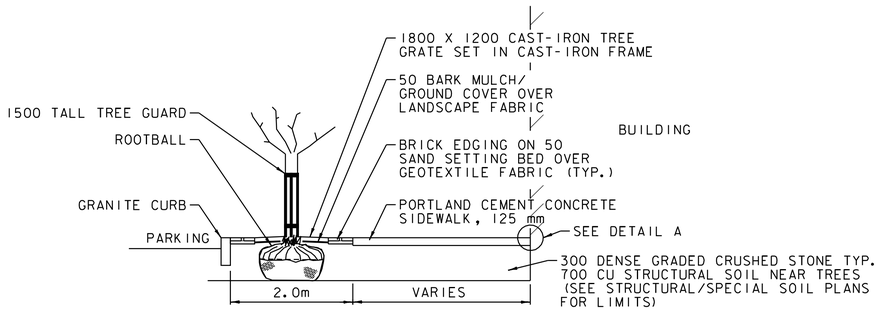
NOTES:

1. ALL FENCE COMPONENTS TO BE SQUARE STEEL TUBE, ZINC PLATED (GLOSS BLACK), OR APPROVED EQUAL. STYLE OF FENCE SHALL MATCH EXISTING FENCE IN DOWNTOWN.
2. ALL WELDED JOINTS SHALL BE FINISHED BY GRINDING OR FILING.
3. FOOTINGS SHALL BE CLASS B CONCRETE, OR AS DIRECTED BY THE ENGINEER.
4. INSTALL PER MANUFACTURER'S SPECIFICATIONS.
5. ALL MATERIALS AND WORK TO INSTALL FENCE SHALL BE PAID FOR UNDER SPECIAL PROVISION (SQUARE STEEL FENCE).

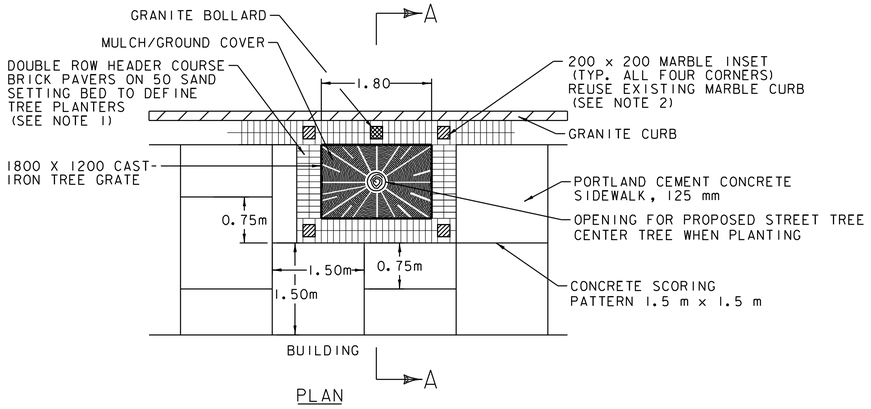


TREE GRATE FOOTING DETAIL

NOT TO SCALE

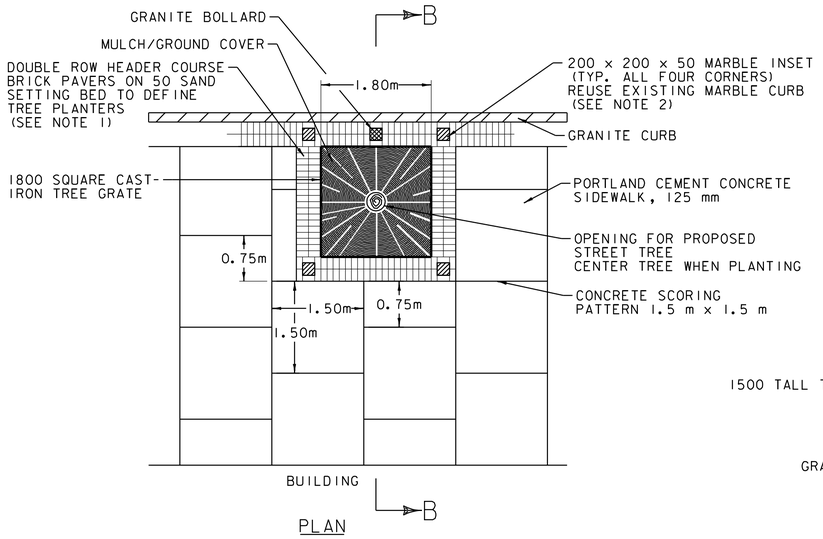


SECTION A-A



PLAN

CENTER STREET (STA 21+667.2 TO 21+805.9 RT/LT)

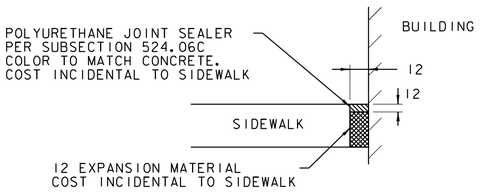


PLAN

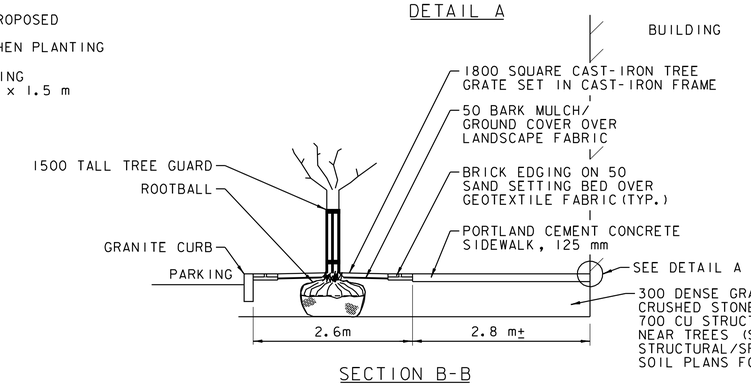
LOT-A (STA 30+124.0 TO 30+146.6 RT)

NOTES:

1. BRICK PAVERS INCLUDED IN QUANTITY OF BRICK BANDING AND PAID FOR AS SPECIAL PROVISION (BRICK PAVING). SEE ITEM DETAIL SHEETS AND BRICK PAVING DETAILS.
2. MARBLE INSETS SHALL BE CUT FROM EXISTING SALVAGED MARBLE CURB AND SHALL BE PAID FOR AS REMOVING AND RESETTING CURB.



DETAIL A



SECTION B-B

SPECIAL SIDEWALK / TREE GRATE DETAILS

NOT TO SCALE

MISCELLANEOUS DETAILS
SQUARE STEEL FENCE / SPECIAL SIDEWALK TREE GRATE / BOLLARD

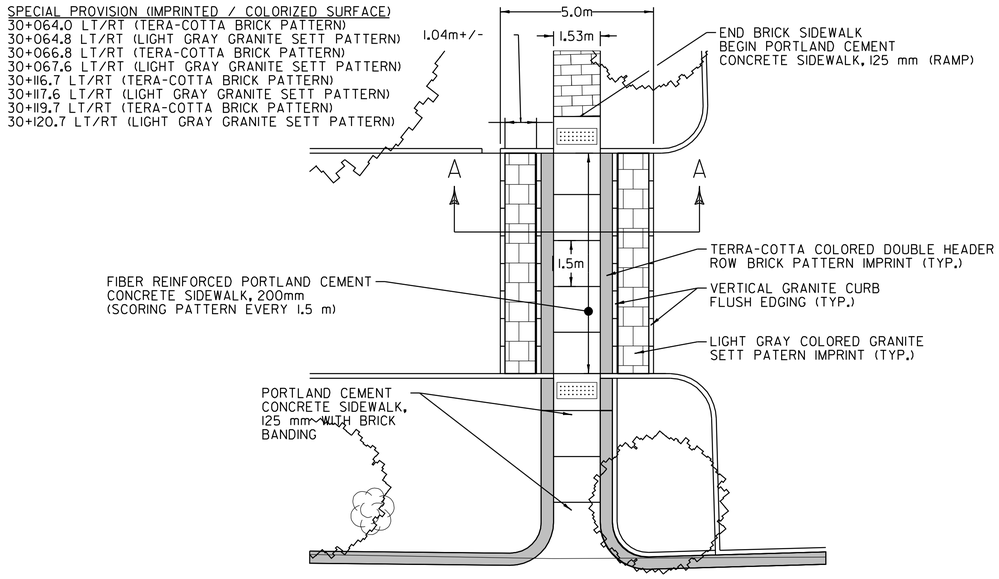
PROJECT NAME:	BRANDON
PROJECT NUMBER:	NH 019-3(496)

FILE NAME: zb008s6-miscdet.dgn		PLOT DATE:	2/23/2017
PROJECT LEADER:	C. BEAN	DRAWN BY:	S. GOODWIN
DESIGNED BY:	M. HALEY	CHECKED BY:	D. MUNRO
		SHEET	85 OF 601

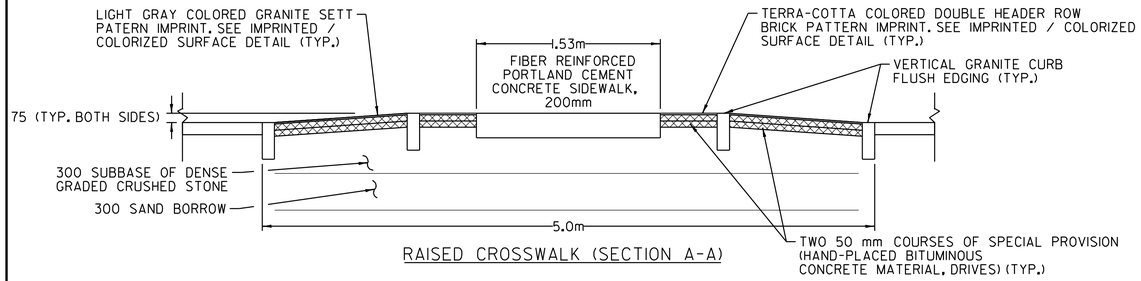
CLD 02-0448 MODEL: 2

ISSUED FOR CONSTRUCTION

SPECIAL PROVISION (IMPRINTED / COLORIZED SURFACE)
30+064.0 LT/RT (TERA-COTTA BRICK PATTERN)
30+064.8 LT/RT (LIGHT GRAY GRANITE SETT PATTERN)
30+066.8 LT/RT (TERA-COTTA BRICK PATTERN)
30+067.6 LT/RT (LIGHT GRAY GRANITE SETT PATTERN)
30+116.7 LT/RT (TERA-COTTA BRICK PATTERN)
30+117.6 LT/RT (LIGHT GRAY GRANITE SETT PATTERN)
30+119.7 LT/RT (TERA-COTTA BRICK PATTERN)
30+120.7 LT/RT (LIGHT GRAY GRANITE SETT PATTERN)



RAISED CROSSWALK (PLAN VIEW)



RAISED CROSSWALK (SECTION A-A)

LOT-A RAISED CROSSWALK DETAIL

NOT TO SCALE

FOUNTAIN RECONSTRUCTION NOTES

1. IT IS THE INTENT OF THESE PLANS TO HAVE FOUNTAINS RECONSTRUCTED TO THE ORIGINAL WORKING CONDITIONS WITH NEW WATER SUPPLY, DRAIN, AND ELECTRICAL SUPPLY FEATURES. ALL OPERABLE SERVICE COMPONENTS SHALL BE LOCKABLE. CONTRACTOR SHALL PROVIDE SHOP DRAWINGS ADDRESSING THESE NOTED REQUIREMENTS WITH PROPOSED MATERIALS AND PLAN.

2. CONTRACTOR SHALL DOCUMENT EXISTING CONDITIONS. DOCUMENTATION OF CONDITIONS SHALL INCLUDE DIGITAL PHOTOS, ELEVATIONS, GEOMETRY AND MATERIALS.

3. EXISTING STONE SHALL BE SALVAGED AND REUSED IF UNDAMAGED. IF ADDITIONAL STONE IS REQUIRED, IT SHALL MATCH EXISTING STONE COLOR AND TEXTURE. NEW MORTAR AND SEALANT SHALL BE SELECTED BASED ON SIMILAR EXTERIOR APPLICATIONS.

4. RECONSTRUCTED FOUNTAIN SHALL BE SET ON 450 mm SUBBASE OF CRUSHED GRAVEL, FINE GRADED AND COMPACTED PER SUBSECTION 301.06.

5. FOUNTAIN POND FOR FOUNTAINS #1 AND #2 SHALL BE UNDERLAIN WITH 1.1 mm (45 mil) EPDM WATERPROOF MEMBRANE SUPPORTED BY POND UNDERLINER. PROVIDE DETAIL IN SHOP DRAWING.

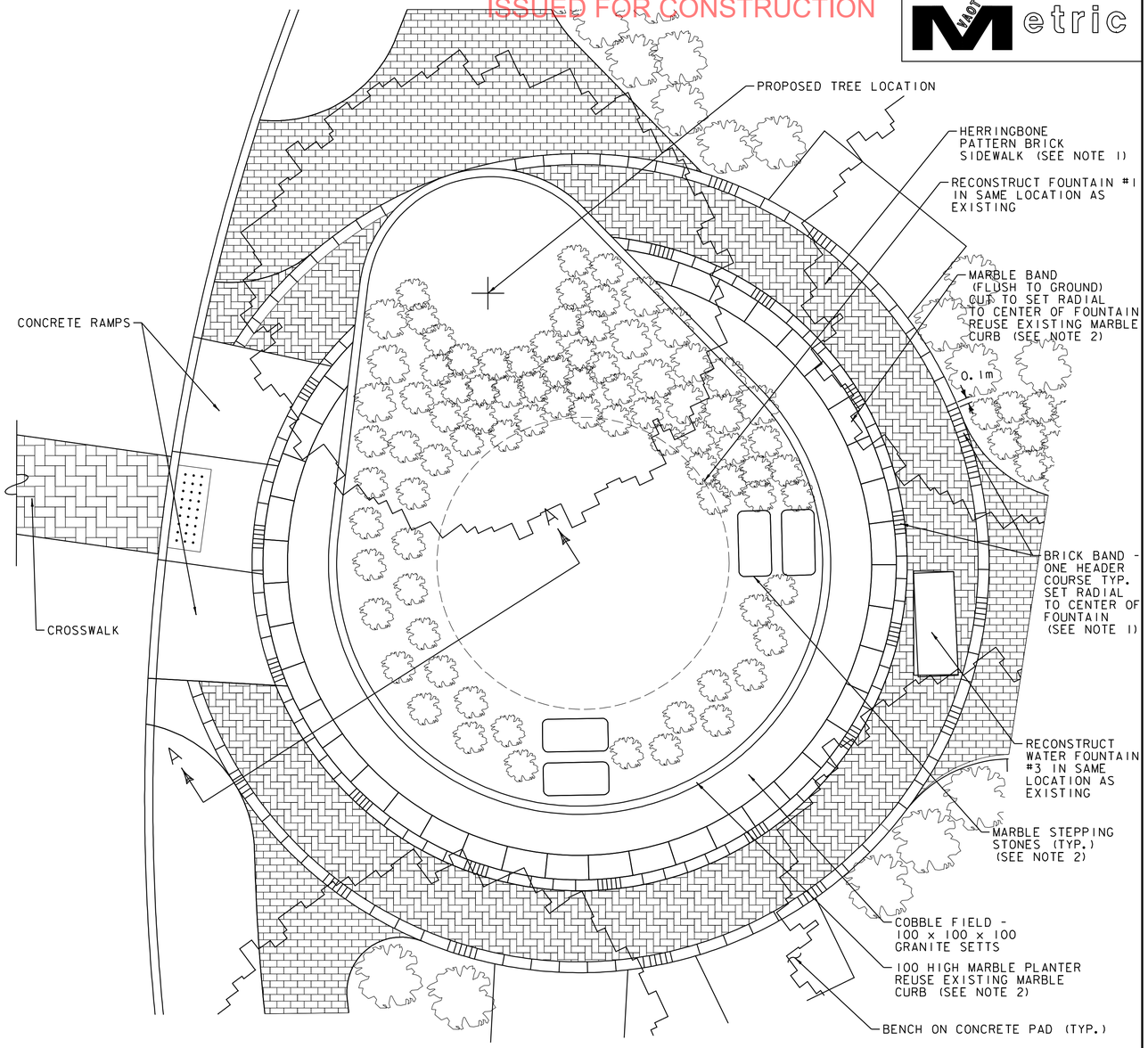
6. PLUMBING AND DRAIN PRODUCTS SHALL BE SELECTED FOR FOUNTAIN SPECIFIC APPLICATION. PUMPS FOR FOUNTAINS #1 AND #2 SHALL BE UL-LISTED FOR EXTERIOR INSTALLATION. PROVISIONS SHALL BE PROVIDED TO MAINTAIN CONSISTENT FOUNTAIN POOL ELEVATION.

7. NEW UNDERGROUND ELECTRICAL SERVICE FOR FOUNTAINS #1 AND #2 SHALL BE COORDINATED WITH UTILITY RELOCATION PLAN SHEETS AND LIGHTING PLAN SHEETS. SEE LIGHTING PLANS FOR APPROXIMATE LOCATION OF UNDERGROUND ELECTRIC SERVICE.

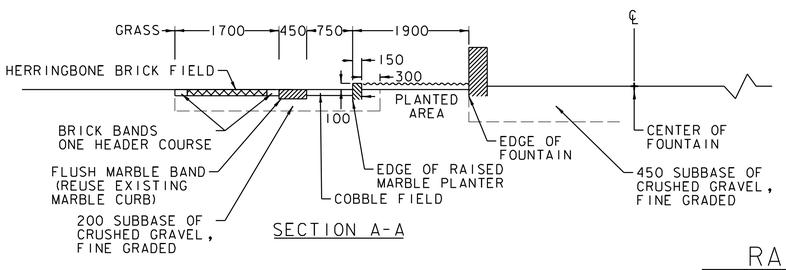
8. FOUNTAIN #1 AND #2 JETS SHALL PROVIDE A SINGLE JET WITH MUSHROOM SHAPED SPRAY PATTERN. DIAMETER SHALL BE ADJUSTABLE. PROVIDE PHOTOS AND REFERENCES OF SIMILAR INSTALLED APPLICATIONS AND OWNER CONTACTS.

9. PROVIDE 25 mm WATER SERVICE AND 100 mm WATER DRAIN PIPING. SHOW METER PIT AND WATER METER LOCATION. FOUNTAIN #1 AND #2 WATER WILL BE SEASONALLY DISCHARGED TO SANITARY SEWER. PVC BALL VALVE ON DRAIN SHALL BE LOCATED IN LOCKABLE FLUSH-MOUNTED VAULT. SEE WATER/SEWER PLANS FOR APPROXIMATE LOCATION OF WATER SERVICE AND DRAIN PIPING.

10. ITEM 900.645 SPECIAL PROVISION (RECONSTRUCT FOUNTAIN) SHALL INCLUDE DOCUMENTATION, SUBMITTALS, DISMANTLING AND STORING MATERIALS, ANY REPLACEMENT MATERIALS, RECONSTRUCTION OF THE FOUNTAIN, AND FOR FURNISHING ALL LABOR, TOOLS, MATERIALS, EQUIPMENT AND INCIDENTALS NECESSARY TO COMPLETE THE WORK. SUBBASE MATERIAL AND ANY LANDSCAPE AND WALKWAY FEATURES SHALL BE PAID FOR UNDER THE APPROPRIATE PAY ITEMS.



FOUNTAIN WALKWAY & PLANTER (PLAN VIEW)



SECTION A-A

NOTES:
1. BRICK SIDEWALK AND BANDING PAID FOR AS SPECIAL PROVISION (BRICK PAVING). SEE ITEM DETAIL SHEETS AND BRICK PAVING DETAILS.
2. MARBLE EDGING, BANDING AND STEPPING STONES SHALL BE CUT FROM EXISTING SALVAGED MARBLE CURB AND SHALL BE PAID FOR AS REMOVING AND RESETTING CURB. SEE ITEM DETAIL SHEETS. STEPPING STONES SHALL BE APPROX. 900 X 300 AND SHALL BE SIMILAR IN SHAPE, TEXTURE AND COLOR.

CENTRAL PARK FOUNTAIN DETAIL

FOUNTAIN #1: 21+574 RT
(SEE ALIGNMENT & PAVEMENT LAYOUT AND GRADING PLANS FOR ADDITIONAL DETAIL)
NOT TO SCALE

MISCELLANEOUS DETAILS
RAISED CROSSWALK/ FOUNTAIN

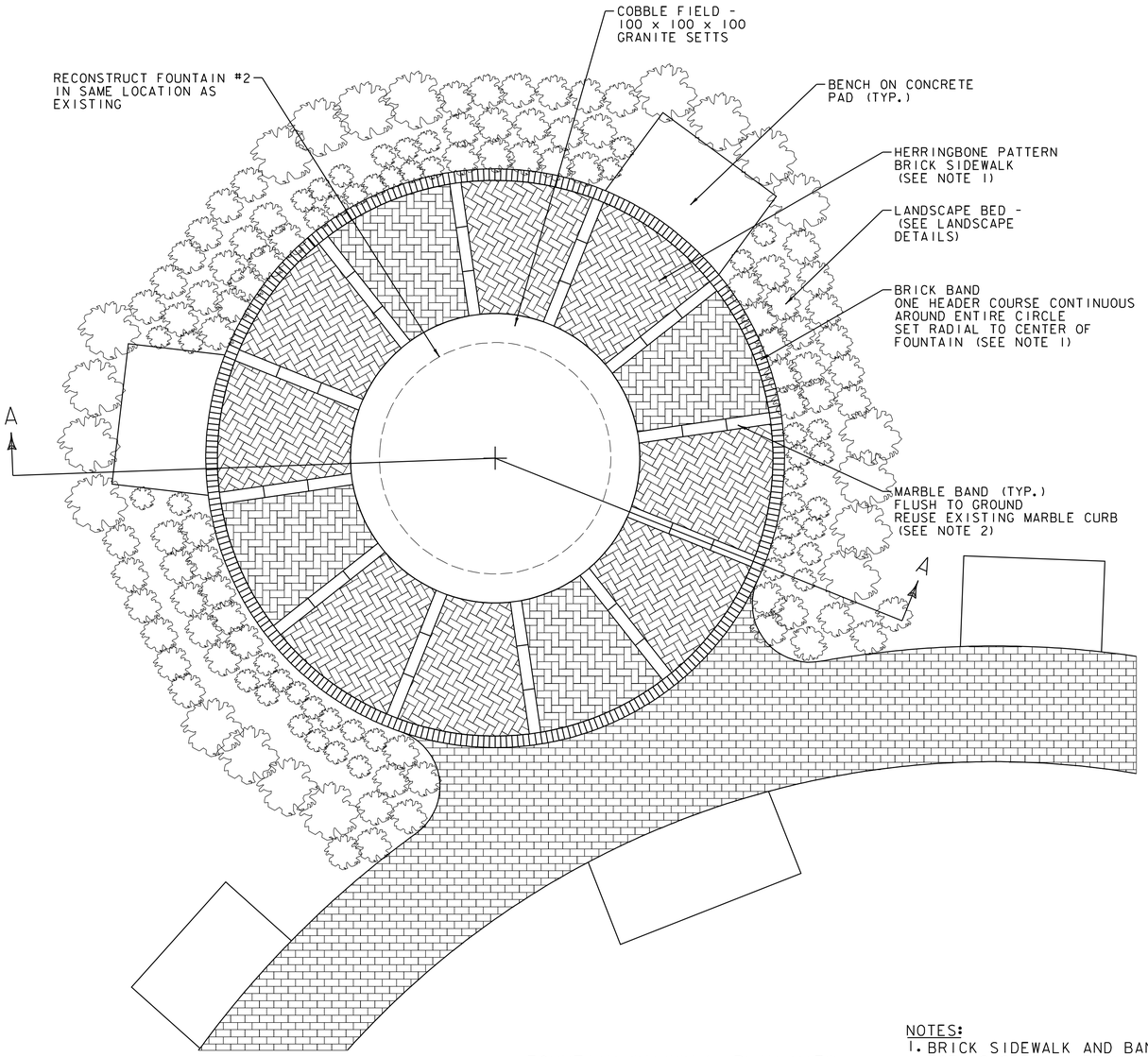
PROJECT NAME: BRANDON
PROJECT NUMBER: NH 019-3(496)

FILE NAME: zb008s6-miscdet.dgn
PROJECT LEADER: C. BEAN
DESIGNED BY: M. HALEY
PLOT DATE: 2/23/2017
DRAWN BY: S. GOODWIN
CHECKED BY: D. MUNRO
SHEET 86 OF 601

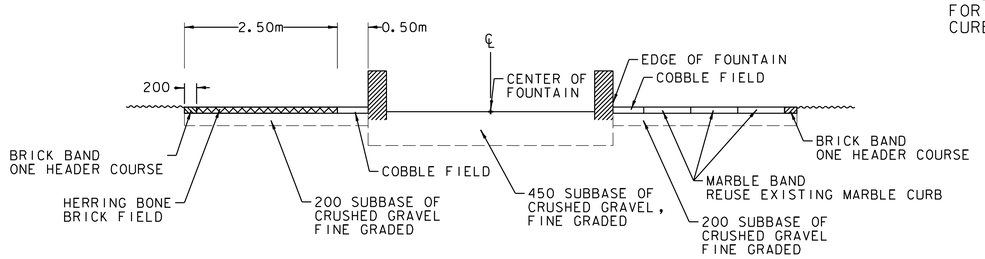
CLD 02-0448 MODEL: 3

ISSUED FOR CONSTRUCTION

VAOT Metric



FOUNTAIN WALKWAY (PLAN VIEW)



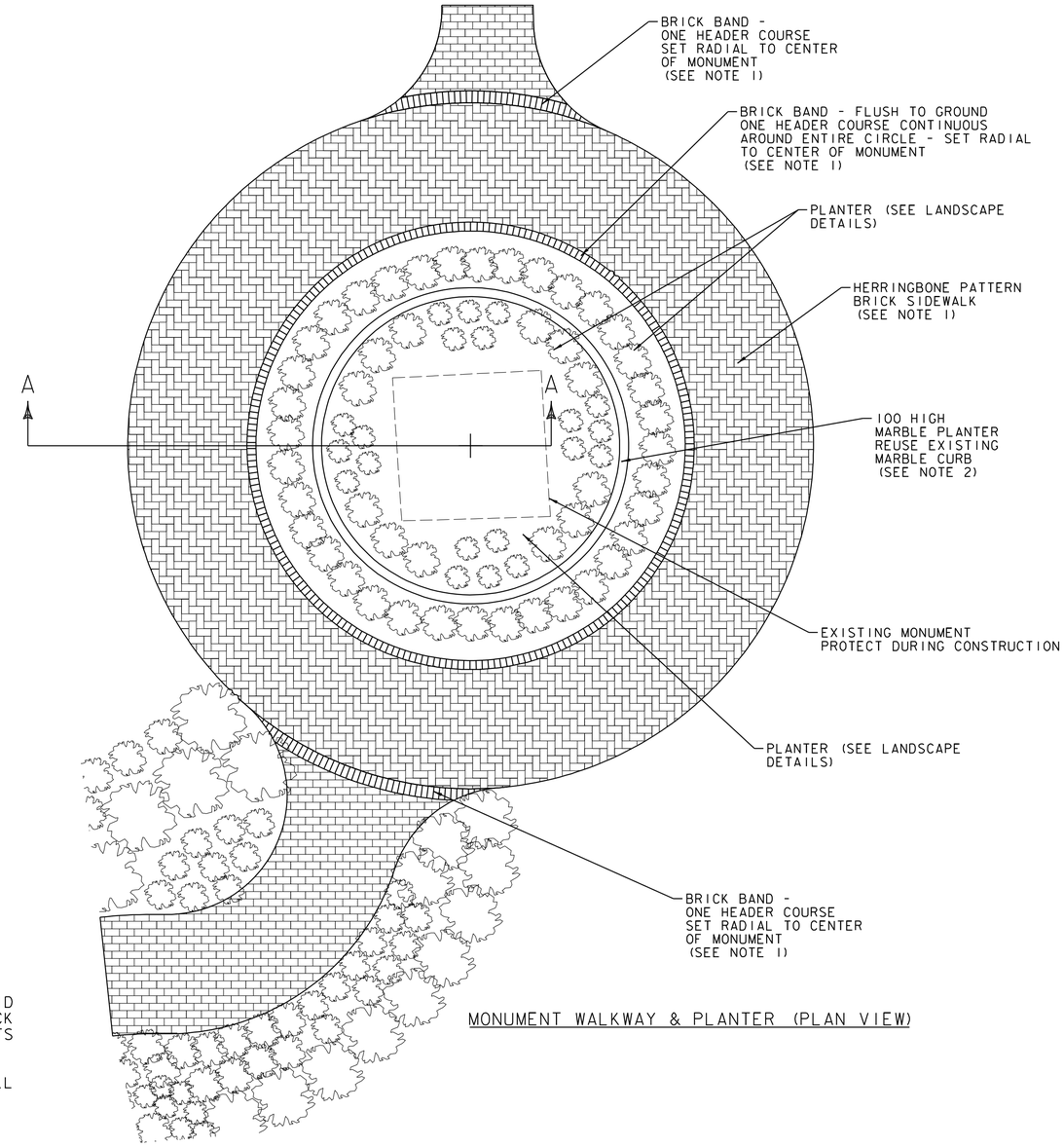
SECTION A-A

NOTES:

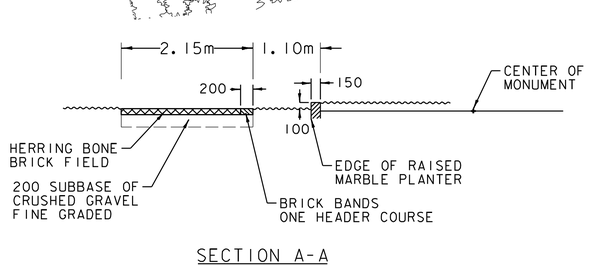
1. BRICK SIDEWALK AND BANDING PAID FOR AS SPECIAL PROVISION (BRICK PAVING). SEE ITEM DETAIL SHEETS AND BRICK PAVING DETAILS.
2. MARBLE EDGING AND BANDING SHALL BE CUT FROM EXISTING SALVAGED MARBLE CURB AND SHALL BE PAID FOR AS REMOVING AND RESETTING CURB. SEE ITEM DETAIL SHEETS.

CRESCENT PARK FOUNTAIN DETAIL

FOUNTAIN #2: 22+162 LT
(SEE GRADING PLANS FOR ADDITIONAL DETAIL)
NOT TO SCALE



MONUMENT WALKWAY & PLANTER (PLAN VIEW)



SECTION A-A

CENTRAL PARK MONUMENT DETAIL

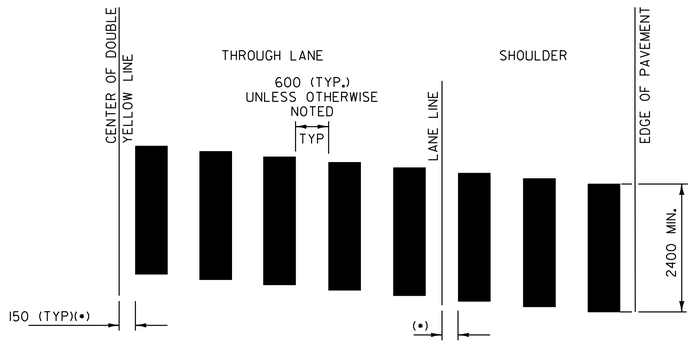
21+496 RT
(SEE GRADING PLANS FOR ADDITIONAL DETAIL)
NOT TO SCALE

MISCELLANEOUS DETAILS
FOUNTAIN / MONUMENT

PROJECT NAME:	BRANDON
PROJECT NUMBER:	NH 019-3(496)
FILE NAME: zb008s6-miscdet.dgn	PLOT DATE: 2/23/2017
PROJECT LEADER: C. BEAN	DRAWN BY: S. GOODWIN
DESIGNED BY: M. HALEY	CHECKED BY: D. MUNRO
	SHEET 87 OF 601

CLD 02-0448 MODEL: 4

ISSUED FOR CONSTRUCTION

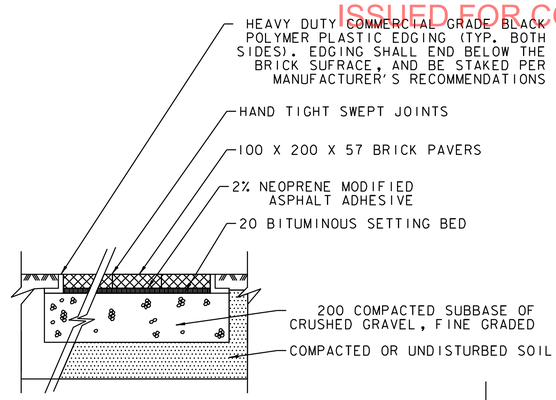


NOTES:

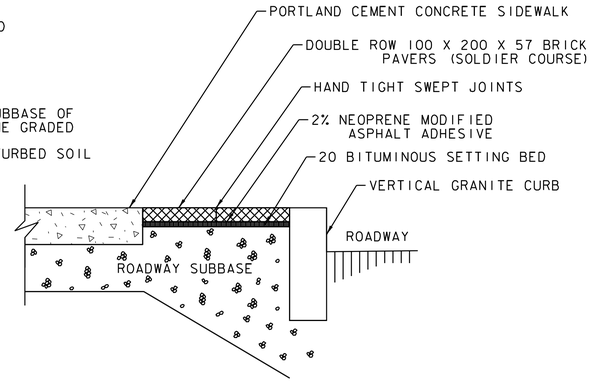
1. THIS DETAIL IS CONFIGURED FOR A 3.3 METER LANE.
2. MARK LIGHT STRING LINE ON PAVEMENT ACROSS ROADWAY (CURB TO CURB).
3. ESTABLISH THE CENTER LINE OF THE ROADWAY (DOUBLE YELLOW LINE OR LANE LINE).
4. BLOCKS ARE PARALLEL TO THE CENTERLINE (DOUBLE YELLOW LINE OR LANE LINE) (OFFSET BLOCKS VERTICALLY TO ACHIEVE REQUIRED SKEW).
5. ALWAYS START MEASURING FROM THE CENTERLINE OR LANE LINE RIGHT, WITH THE FLOW OF TRAFFIC.
6. PAINTED BLOCKS ARE 600 (TYPICAL).
(•)7. ADJUST SPACING (300-600) TO AVOID WHEEL PATHS

BLOCK PATTERN CROSSWALK DETAIL

NOT TO SCALE



BRICK SIDEWALK/WALKWAY



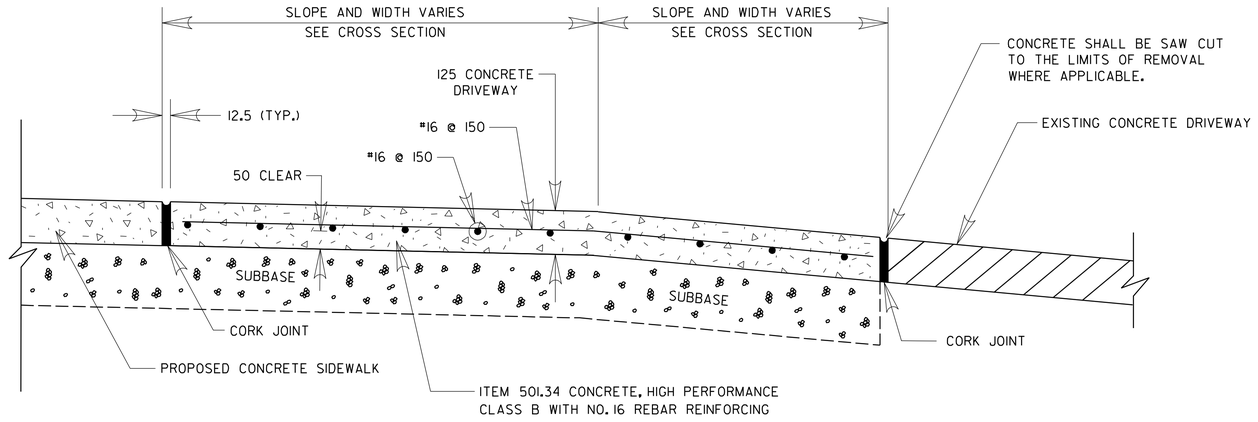
BRICK BANDING

NOTE:

1. BEDDING FOR RESET WALKWAYS TO PRIVATE PROPERTIES AND FOR BRICK BANDING ADJACENT TO PROPOSED TREE WELLS SHALL HAVE 50 mm SAND SETTING BED SUBSTITUTED FOR BITUMINOUS SETTING BEDS. SEE SPECIAL PROVISION.

BRICK PAVING DETAILS

NOT TO SCALE

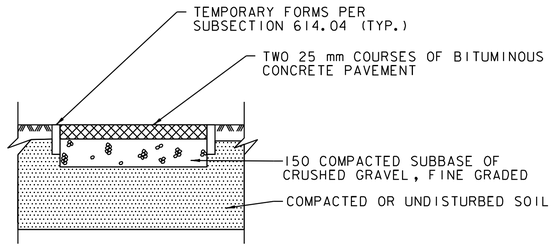


NOTES:

1. REFER TO VTRANS STD B-71 FOR SUBBASE AND GEOMETRIC DESIGN INFORMATION.
2. IN AREAS WITH GREENBELT, SECTION OF DRIVEWAY BETWEEN ROADWAY AND SIDEWALK SHALL BE PAVED WITH 900.675 HAND-PLACED BITUMINOUS CONCRETE MATERIAL, DRIVES.

PORTLAND CEMENT CONCRETE DRIVE DETAIL

NOT TO SCALE



WALKWAYS

NOTES:

1. WALKWAY WIDTH AND SLOPE VARIES. SEE ROADWAY LAYOUTS.
2. WALKWAYS PAID FOR UNDER ITEM 618.15 BITUMINOUS CONCRETE SIDEWALK.

BITUMINOUS CONCRETE WALKWAYS

NOT TO SCALE

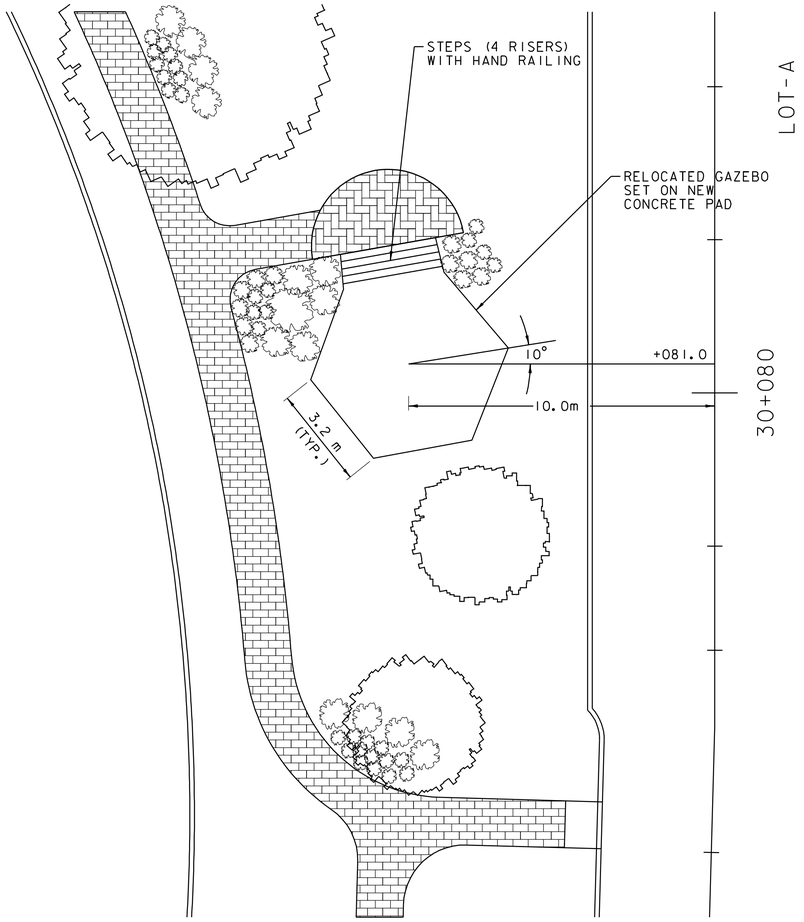
MISCELLANEOUS DETAILS
BRICK PAVING / PORTLAND CEMENT CONCRETE DRIVE / BLOCK PATERN CROSSWALK / BITUMINOUS CONCRETE WALKWAYS

PROJECT NAME: BRANDON
PROJECT NUMBER: NH 019-3(496)

FILE NAME: zb008s6-miscdet.dgn
PROJECT LEADER: C. BEAN
DESIGNED BY: M. HALEY
PLOT DATE: 2/23/2017
DRAWN BY: S. GOODWIN
CHECKED BY: D. MUNRO
SHEET 88 OF 601

CLD 02-0448 MODEL: 5

ISSUED FOR CONSTRUCTION

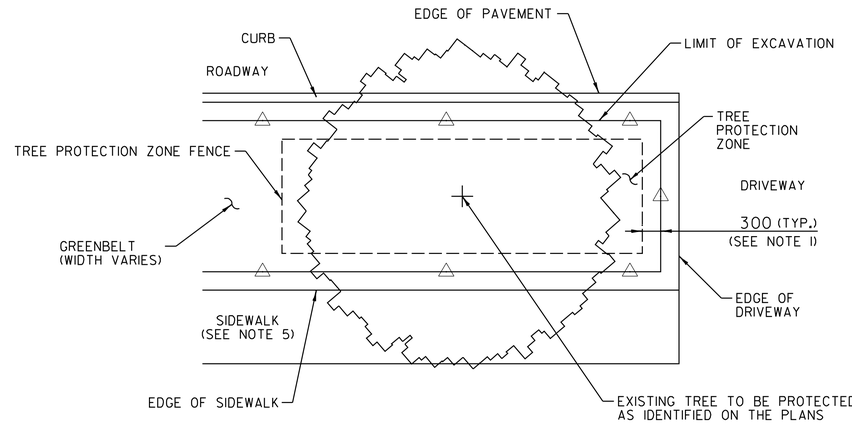


NOTES:

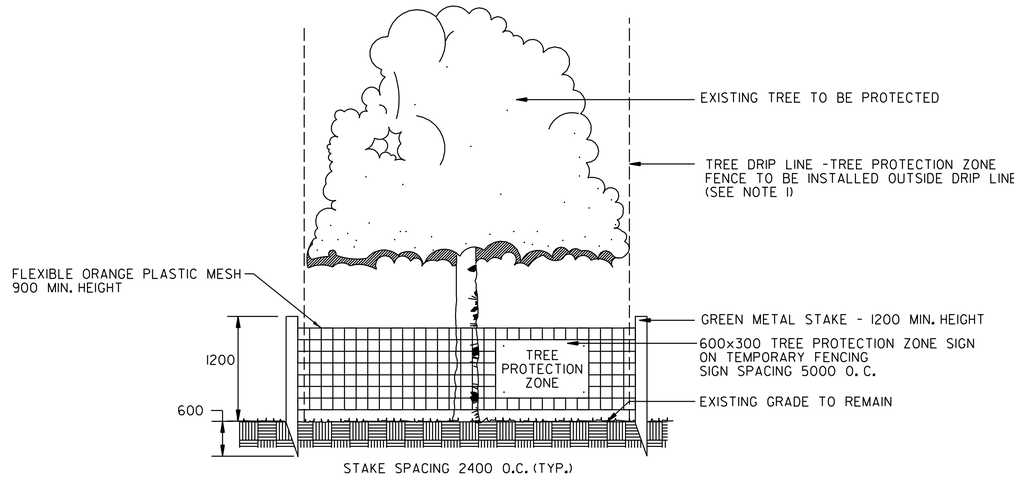
1. IT IS THE INTENT FOR THE GAZEBO TO BE RELOCATED AND RECONSTRUCTED TO ITS ORIGINAL CONDITION ON A NEW CONCRETE SLAB. CONTRACTOR SHALL PROVIDE SHOP DRAWINGS FOR REVIEW DEPICTING HOW THIS WORK WILL BE PERFORMED.
2. THE CONTRACTOR SHALL DOCUMENT THE EXISTING CONDITION OF THE GAZEBO PRIOR TO BEGINNING WORK. DOCUMENTATION SHALL INCLUDE DIGITAL PHOTOS, ELEVATIONS, GEOMETRY, AND MATERIALS. ANY EXISTING DAMAGE OR MATERIALS IN NEED OF REPAIR SHALL BE NOTED PRIOR TO GAZEBO RELOCATION.
3. EXISTING MATERIALS SHALL BE REUSED TO THE MAXIMUM EXTENT PRACTICAL. ANY EXISTING MATERIALS THAT ARE DAMAGED OR BEYOND SALVAGING SHALL BE REPLACED WITH NEW MATERIALS.
4. APPROXIMATE DIMENSIONS FOR A NEW CONCRETE PAD ARE SHWON ABOVE. THE CONTRACTOR SHALL VERIFY THAT THE FINAL DIMENSIONS OF THE NEW PAD WILL ACCOMMODATE THE RELOCATED GAZEBO. REINFORCED CONCRETE PAD SHALL BE DESIGNED AND DETAILED IN THE WORKING DRAWINGS. SEE SPECIAL PROVISION. NEW CONCRETE PAD SHALL BE SET ON 300 mm SUBBASE OF CRUSHED GRAVEL, FINE GRADED AND COMPACTED PER SUBSECTION 301.06.
5. ITEM 900.645 SPECIAL PROVISION (RELOCATE GAZEBO) SHALL INCLUDE ALL DOCUMENTATION, SHOP DRAWINGS, DESIGN AND AND CONSTRUCTION OF THE CONCRETE PAD, ALL REPLACEMENT MATERIALS, AND FOR FURNISHING ALL LABOR, TOOLS, MATERIALS, EQUIPMENT AND INCIDENTALS NECESSARY TO COMPLETE THE WORK. EXCAVATION AND SUBBASE SHALL BE PAID FOR UNDER THE APPROPRIATE PAY ITEMS.

GAZEBO RELOCATION DETAIL

NOT TO SCALE



PLAN



ELEVATION

NOTES:

1. TREE PROTECTION ZONE (TPZ) FENCE TO BE INSTALLED OUTSIDE THE DRIP LINE OF THE TREE, OR TO WITHIN 0.30 METERS FROM THE NEAREST LIMITS OF CONSTRUCTION FOR SIDEWALK, CURBING, DRIVEWAYS, TEMPORARY TRAFFIC, OR TO WITHIN 0.30 METERS FROM LIMITS OF CONSTRUCTION TO INSTALL DRAINAGE, UNDERDRAIN OR UTILITIES OR AS DIRECTED BY ENGINEER. TREE PROTECTION FENCE SHALL MEET THE REQUIREMENTS OF BARRIER FENCE (SUBSECTION 727.03) AND SHALL BE INCIDENTAL TO ITEM 656.85 TREE PROTECTION.
2. NO STORAGE OR STOCKPILING OF CONSTRUCTION MATERIALS, DEBRIS, OR EQUIPMENT SHALL BE PERMITTED WITHIN THE LIMITS OF THE TPZ.
3. THE TPZ WILL BE MAINTAINED THROUGHOUT CONSTRUCTION AND ALL ENCROACHMENTS WILL BE CONSIDERED A VIOLATION OF TPZ REQUIREMENTS.
4. FOR "PROTECT TREES" LOCATED OUTSIDE OF THE RIGHT-OF-WAY AND BEYOND THE LIMITS OF CONSTRUCTION, TREE PROTECTION ZONE FENCE SHALL ONLY BE INSTALLED ALONG THE SIDE OF THE TREE FACING CONSTRUCTION.
5. REFER TO FIBER REINFORCED SIDEWALK DETAIL ON TYPICAL SECTIONS.

TREE PROTECTION DETAIL

NOT TO SCALE

MISCELLANEOUS DETAILS
GAZEBO RELOCATION /
TREE PROTECTION

PROJECT NAME:	BRANDON
PROJECT NUMBER:	NH 019-3(496)

FILE NAME: zb008s6-miscdet.dgn	PLOT DATE: 2/23/2017
PROJECT LEADER: C. BEAN	DRAWN BY: S. GOODWIN
DESIGNED BY: M. HALEY	CHECKED BY: D. MUNRO
	SHEET 89 OF 601

CLD 02-0448 MODEL: 6

ISSUED FOR CONSTRUCTION

VAOT Metric

ALL SIDEWALK 1.53 m WIDTH
UNLESS SHOWN OTHERWISE
ON THE PLANS

VT STATE PLANE GRID
N

US 7 CURVE #1
Δ = 36°06'54.2" LT
BK BRG=N2°41'20.8"W
R = 250.000
T = 81.508
L = 157.582
E = 12.951
BANK = SEE BANKING DIAGRAMS

20+735.617
BEGIN APPROACH

20+778.000
END APPROACH
BEGIN PROJECT
NH 019-3(496)

PT
20+744.180

US 7 CURVE #1
20+660
20+680
20+700
20+720

6.00
6.00
4.50
4.50

N38°48'15.0"W

20+740
20+760
20+780
20+800

8.0R
8.0R
4.8R
4.8R

MATCH LINE 20+815

PI
20+668.106 BK=
20+662.672 AHD

POT 20+777.617 BK
POT 20+778.000 AHD =
EQ. = -0.383 m

ALL DIMENSIONS ON ALIGNMENT & PAVEMENT LAYOUTS ARE IN METERS UNLESS NOTED OTHERWISE.

0 10 20 30
SCALE IN METERS

ALIGNMENT & PAVEMENT LAYOUT 1

PROJECT NAME: BRANDON
PROJECT NUMBER: NH 019-3(496)

FILE NAME: zb008s6-ali.dgn
PROJECT LEADER: C. BEAN
DESIGNED BY: P. SHEDD
PLOT DATE: 2/23/2017
DRAWN BY: S. GOODWIN
CHECKED BY: D. MUNRO
SHEET 90 OF 601

CLD 02-0448 MODEL: 1

ISSUED FOR CONSTRUCTION

VAOT Metric

VT STATE PLANE GRID

PROPOSED SIDEWALK TO GENERALLY MATCH EXISTING LOCATION/ELEVATION AT BACK OF SIDEWALK UNLESS SHOWN OTHERWISE ON PLANS/SECTIONS OR AS DIRECTED BY THE ENGINEER.

40+040.0 TO 40+052.4 LT

MATCH LINE 20+815

MATCH LINE 20+950

US 7 POT 20+893.419=
HIGH ST POT 40+000

US 7

N38° 48' 15.0"W

902.87

20+820 20+840 20+860 20+880 20+900 20+920 20+940

4.50

90°

2.0R

8.0R

+873.83

+012.09

5.43

3.60

+012.15

5.0R

CURVE #1

PI
40+015.399 BK
40+014.195 AHD

40+020

60.0R

+025.79

+030.0

+040.0

+052.4

7.23

N6° 12' 24.0"E 7.23

40+040

40+060 TH-62

HIGH ST

40 + 070.000
LIMIT OF WORK

HIGH ST CURVE #1
BK BRG = N51° 11' 45.0"E
PC 40+003.804
PT 40+025.790
Δ = 44° 59' 21.0" LT
R = 28.000
T = 11.595
L = 21.986
E = 2.306
BANK = SEE BANKING DIAG.

0 10 20 30
SCALE IN METERS

ALIGNMENT & PAVEMENT LAYOUT 2

PROJECT NAME: BRANDON
PROJECT NUMBER: NH 019-3(496)

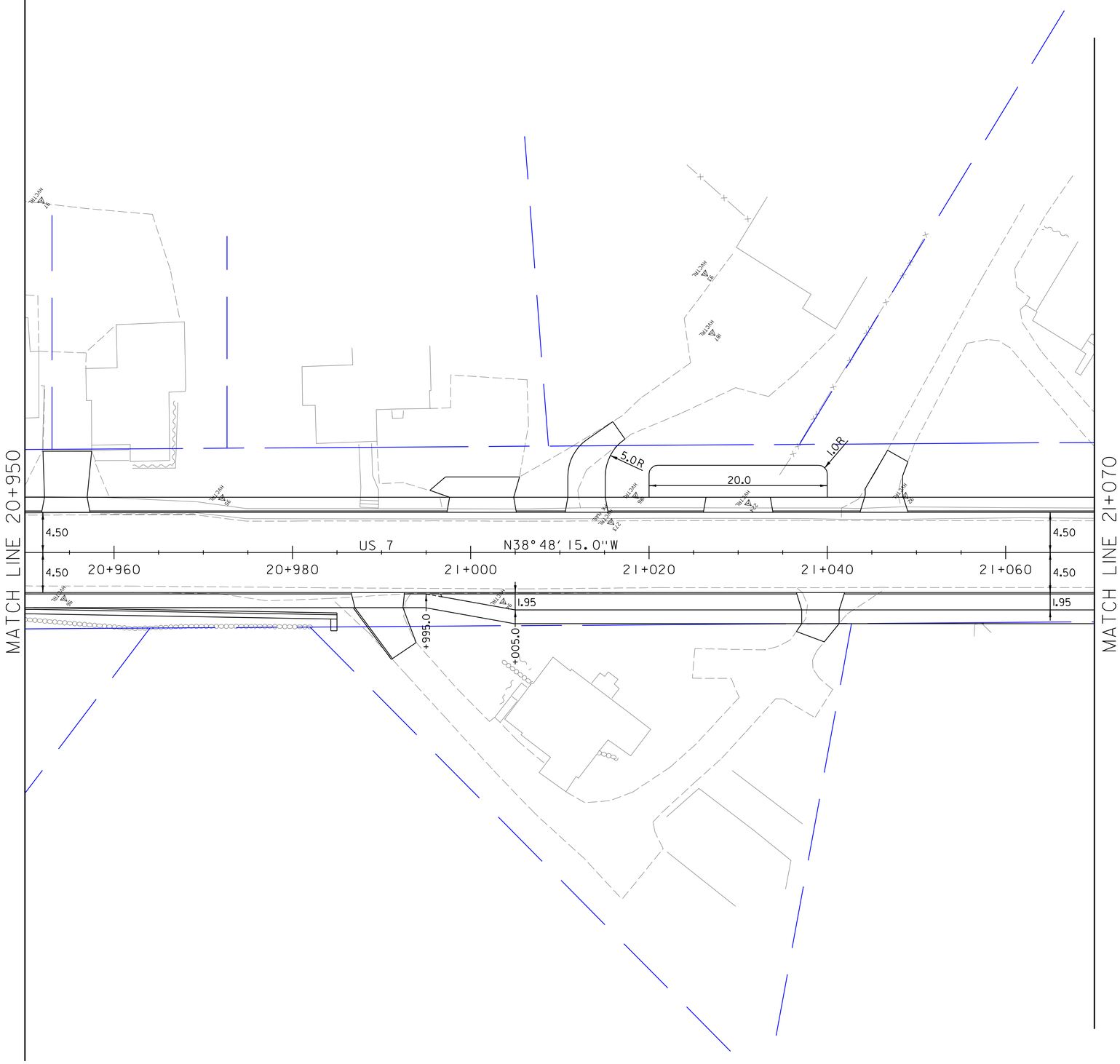
FILE NAME: zb008s6-ali.dgn
PROJECT LEADER: C. BEAN
DESIGNED BY: P. SHEDD
PLOT DATE: 2/23/2017
DRAWN BY: S. GOODWIN
CHECKED BY: D. MUNRO
SHEET 91 OF 601

CLD 02-0448 MODEL: 2

ISSUED FOR CONSTRUCTION

VAOT Metric

VT STATE PLANE GRID



0 10 20 30

SCALE IN METERS

ALIGNMENT & PAVEMENT LAYOUT 3

PROJECT NAME: BRANDON
PROJECT NUMBER: NH 019-3(496)

FILE NAME: zb008s6-ali.dgn
PROJECT LEADER: C. BEAN
DESIGNED BY: P. SHEDD

PLOT DATE: 2/23/2017
DRAWN BY: S. GOODWIN
CHECKED BY: D. MUNRO
SHEET 92 OF 601

CLD 02-0448 MODEL: 3

ISSUED FOR CONSTRUCTION

VAOT Metric

US 7 CURVE #2
Δ = 21°11'57.2" LT
R = 110.000
T = 20.585
L = 40.700
E = 1.910
BANK = 0.020m/m

VT STATE PLANE GRID
N

MATCH LINE 21+070

PC 21+088.520

SWLK 'B-LT' 1+009.059 = US 7 21+120.000, LT 4.65 m

PT 21+129.220

PI 1+019.203

4.50 N38°48'15.0"W 21+080

4.50

1.95

+075.0

+085.0

21+100

US 7 CURVE #2

N78°51'04.5"W

1+020

1+040

1+060

1+080

N59°50'42.8"W

4.50

4.50

21+120

21+140

21+160

N60°00'12.2"W

21+180

21+200

MATCH LINE 21+210

N47°57'56.9"W

N58°11'20.9"W

N59°43'53.5"W

0+020

0+040

0+060

0+080

PI 21+109.105 BK = AHD 21+108.635

SWLK 'B-RT' -0+000.000 = US 7 21+120.431, RT 4.65 m

PI 0+013.542

PI 0+043.236

0 10 20 30

SCALE IN METERS

ALIGNMENT & PAVEMENT LAYOUT 4

PROJECT NAME: BRANDON
PROJECT NUMBER: NH 019-3(496)

FILE NAME: zb008s6-ali.dgn
PROJECT LEADER: C. BEAN
DESIGNED BY: P. SHEDD

PLOT DATE: 2/23/2017
DRAWN BY: S. GOODWIN
CHECKED BY: D. MUNRO
SHEET 93 OF 601

CLD 02-0448 MODEL: 4

ISSUED FOR CONSTRUCTION

VT STATE PLANE GRID

N

MATCH LINE 21+210

N59° 50' 42.8"W

1+100 1+120 1+140 1+160 1+180 1+200 1+220 1+

4.50 4.50

US 7

N60° 00' 12.2"W

4.50 4.50

21+220 21+240 21+260 21+280 21+300 21+320 21+340

MATCH LINE 21+350

N60° 04' 57.3"W

0+100 0+120 0+140 0+160 0+180 0+200 0+220

PI
0+098.441

0 10 20 30

SCALE IN METERS

ALIGNMENT & PAVEMENT LAYOUT 5

PROJECT NAME: BRANDON
PROJECT NUMBER: NH 019-3(496)

FILE NAME: zb008s6-ali.dgn
PROJECT LEADER: C. BEAN
DESIGNED BY: P. SHEDD

PLOT DATE: 2/23/2017
DRAWN BY: S. GOODWIN
CHECKED BY: D. MUNRO
SHEET 94 OF 601

CLD 02-0448 MODEL: 5

ISSUED FOR CONSTRUCTION

VT STATE PLANE GRID N

VAOT Metric

BEGIN SIDEWALK WIDTH VARIES. CONSTRUCT SIDEWALK TO EXIST. CURB. DO NOT DISTURB EXIST. CURB.

PROPOSED SIDEWALK TO GENERALLY MATCH EXISTING LOCATION/ELEVATION AT BACK OF SIDEWALK UNLESS SHOWN OTHERWISE ON PLANS/SECTIONS OR AS DIRECTED BY THE ENGINEER.

36+070.0 TO 36+101.6 RT

MATCH LINE 21+410

MATCH LINE 36+070

MATCH LINE 21+350

1.45 RT
7.38
+408.0
6.02
+404.7
4.50
4.50
21+400
0+280
1+280
US 7
N59° 50' 42.8"W
1+260
21+380
N60° 00' 12.2"W
0+260
N60° 04' 57.3"W
0+240
21+360
+357.6
+352.0
2.40
5.65
36+080
5.10
+085.0
11.80
+097.37
36+100
10.72
+102.51
N84° 05' 44.3"E
8.53
+108.0
36+120
VT 73 E.
TH-3

36 + 120.000
LIMIT OF WORK

0 10 20 30
SCALE IN METERS

ALIGNMENT & PAVEMENT LAYOUT 6

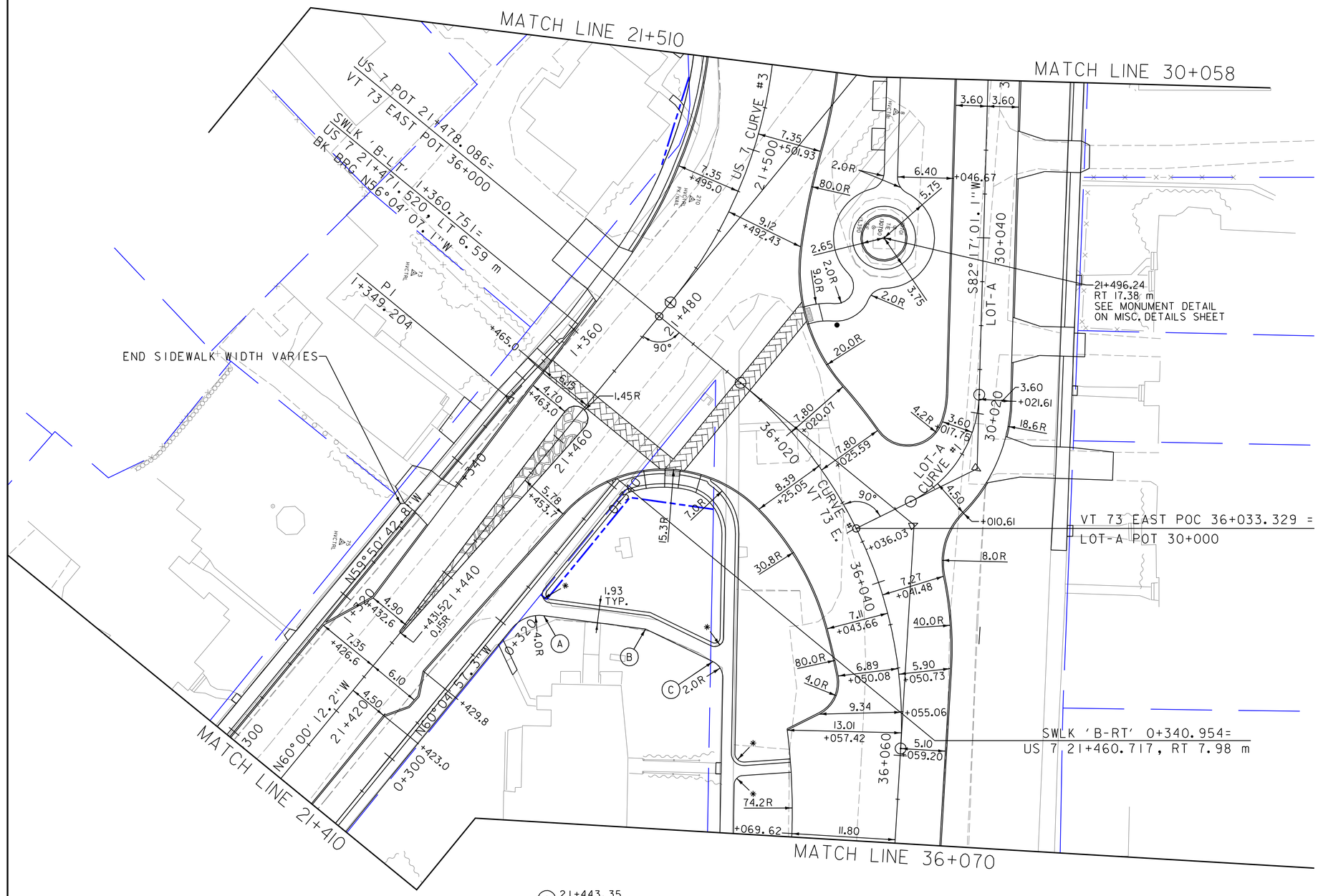
PROJECT NAME: BRANDON
PROJECT NUMBER: NH 019-3(496)

FILE NAME: zb008s6-ali.dgn
PROJECT LEADER: C. BEAN
DESIGNED BY: P. SHEDD
PLOT DATE: 2/23/2017
DRAWN BY: S. GOODWIN
CHECKED BY: D. MUNRO
SHEET 95 OF 601

CLD 02-0448 MODEL: 6

ISSUED FOR CONSTRUCTION

VAOT Metric



PROPOSED SIDEWALK TO GENERALLY MATCH EXISTING LOCATION/ELEVATION AT BACK OF SIDEWALK UNLESS SHOWN OTHERWISE ON PLANS/SECTIONS OR AS DIRECTED BY THE ENGINEER.

36+025.1 TO 36+070.0 RT
36+042.0 LT TO 30+058.0 RT

US 7 CURVE # 3

PI 21+514.046 BK=
21+506.551 AHD
PC 21+480.122
PT 21+540.475
Δ = 65° 14' 40.9" LT
R = 53.000
T = 33.924
L = 60.353
E = 9.927
BANK= 0.020m/m

LOT-A CURVE #1
BK BRG N35° 32' 59.7"W
PI 30+015.369 BK=
30+013.679 AHD
PC 30+006.929
PT 30+022.119
Δ = 62° 09' 59.2" LT
R = 14.000
T = 8.440
L = 15.190
E = 2.347
BANK = 0.020m/m

VT 73 EAST CURVE #1
BK BRG N29° 59' 47.8"E
AHD BRG N84° 05' 44.3"E
PI 36+037.520 BK=
36+033.669 AHD
PC 36+011.990
PT 36+059.200
Δ = 54° 05' 56.5" RT
R = 50.000
T = 25.531
L = 47.210
E = 6.141
BANK = N.C.

(A) 21+443.35 RT 11.42 m
(B) 21+449.52 RT 21.36 m
(C) 36+044.31 RT 20.65 m

* = 1.0m RADIUS

STAMPED CROSSWALKS
STAMPED ISLANDS

0 10 20 30
SCALE IN METERS

ALIGNMENT & PAVEMENT LAYOUT 7

PROJECT NAME: BRANDON
PROJECT NUMBER: NH 019-3(496)

FILE NAME: zb008s6-ali.dgn
PROJECT LEADER: C. BEAN
DESIGNED BY: P. SHEDD
PLOT DATE: 2/23/2017
DRAWN BY: S. GOODWIN
CHECKED BY: D. MUNRO
SHEET 96 OF 601

CLD 02-0448 MODEL: 7

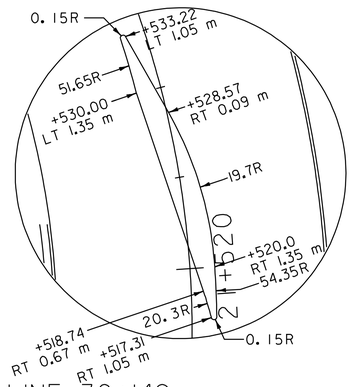
ISSUED FOR CONSTRUCTION

VAOT Metric

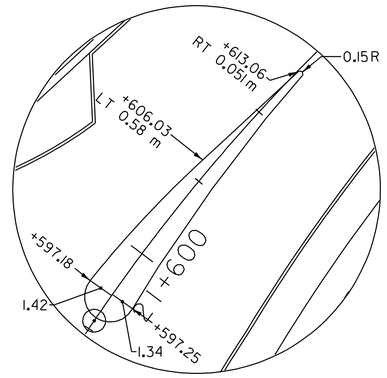
VT STATE PLANE GRID N

Ⓐ 21+574.13 LT 20.78 m
Ⓑ 34+012.73 RT 6.05 m
Ⓒ 34+023.76 RT 8.39 m
Ⓓ 34+027.68 RT 10.16 m
Ⓔ 34+033.95 RT 12.93 m
Ⓕ 34+031.93 RT 5.68 m
Ⓖ 34+026.68 RT 11.35 m
Ⓗ 34+022.24 RT 13.10 m
Ⓘ 35+034.50 LT 7.29 m
Ⓙ 35+013.31 LT 7.12 m
Ⓚ 35+016.53 LT 8.65 m
Ⓛ 30+084.04 LT 15.00 m
Ⓜ 30+084.80 LT 10.67 m
Ⓝ 30+063.02 LT 10.00 m

ISLAND DETAIL #1



ISLAND DETAIL #2



35 + 066.000
LIMIT OF WORK

MATCH LINE 21+615

MATCH LINE 30+149

SEE ISLAND DETAIL #2 ABOVE

SEE ISLAND DETAIL #1 ABOVE

21+574.34 RT 15.03 m SEE FOUNTAIN DETAIL ON MISC. DETAILS SHEET

30+118.66 SEE LOT-A RAISED CROSSWALK DETAIL ON MISC. DETAILS SHEET

30+081.0 LT 10.0 m SEE GAZEBO DETAIL ON MISC. DETAILS SHEET

30+065.79 SEE LOT-A RAISED CROSSWALK DETAIL ON MISC. DETAILS SHEET

PI 30+069.084

SEE PLAN 8B

MATCH LINE 21+510

MATCH LINE 30+058

* = 1.0m RADIUS

** = WIDTH VARIES TO FACE OF BUILDING

STAMPED CROSSWALKS
STAMPED ISLANDS
GRANITE SETTS

0 10 20 30
SCALE IN METERS

LOT-A CURVE #2

AHD BRG N75° 20′ 49.8″W
PI 30+113.799 BK=
30+113.737 AHD
PC 30+111.677
PT 30+115.859
Δ = 23° 57′ 45.0″ RT
R = 10.000
T = 2.122
L = 4.182
E = 0.223
BANK = N/A

US 7 CURVE #4

PI 21+572.937 BK=
21+567.747 AHD
PC 21+545.164
PCC 21+595.520
Δ = 60° 06′ 30.0″ RT
R = 48.000
T = 27.773
L = 50.356
E = 7.456
BANK = 0.020m/m

LOT-A CURVE #3

PI 30+123.586 BK=
30+123.524 AHD
PC 30+121.464
PT 30+125.646
Δ = 23° 57′ 45.0″ LT
R = 10.000
T = 2.122
L = 4.182
E = 0.223
BANK = N/A

US 7 CURVE #5

PI 21+607.066 BK=
21+606.964 AHD
PCC 21+595.520
PT 21+618.510
Δ = 13° 10′ 19.6″ RT
R = 100.000
T = 11.546
L = 22.990
E = 0.664
BANK = 0.020m/m

CARVER ST CURVE #1

BK BRG S14° 17′ 42.8″E
AHD BRG S52° 29′ 04.5″E
PI 34+025.811 BK=
34+025.294 AHD
PC 34+018.887
PT 34+032.218
Δ = 38° 11′ 21.7″ LT
R = 20.000
T = 6.924
L = 13.331
E = 1.164
BANK = N.C.

PROPOSED SIDEWALK TO GENERALLY MATCH EXISTING LOCATION/ELEVATION AT BACK OF SIDEWALK UNLESS SHOWN OTHERWISE ON PLANS/SECTIONS OR AS DIRECTED BY THE ENGINEER.

30+058.0 TO 30+065.0 RT
34+013.0 TO 34+063.0 LT

ALIGNMENT & PAVEMENT LAYOUT 8

PROJECT NAME: BRANDON
PROJECT NUMBER: NH 019-3(496)

FILE NAME: zb008s6-ali.dgn
PROJECT LEADER: C. BEAN
DESIGNED BY: P. SHEDD
PLOT DATE: 2/23/2017
DRAWN BY: S. GOODWIN
CHECKED BY: D. MUNRO
SHEET 97 OF 601

CLD 02-0448 MODEL: 8

ISSUED FOR CONSTRUCTION

VAOT Metric

37 + 070.000
LIMIT OF WORK

37+080

S37° 00′ 07.8"W

37+060

+050.0
MATCH EXISTING

APPROX. EXIST. ROW

3.60

37+040

3.60

APPROX. EXIST. ROW

34 + 210.000
LIMIT OF WORK

37+020

PT
34+237.009

+015.0

3.60

MATCH
EXISTING

+011.3

3.60

5.4R

9.0R

APPROX. EXIST. ROW

APPROX. EXIST. ROW

PC
34+111.416

34+240

34+220

34+200

34+180

CURVE #2

34+160

34+140

34+120

34+100

34+

S50° 41′ 08.2"E

+210.0

+192.4

CARVER STREET

S52° 29′ 04.5"E

SEE PLAN 8

APPROX. EXIST. ROW

87° 43′ 26.5"

APPROX. EXIST. ROW

PI
34+174.218 BK=
34+174.207 AHD

CARVER ST. POC 34+202.942 =
ROSSITER ST POT 37+000.000

CARVER ST CURVE # 2
Δ = 01° 47′ 56.4" RT
R = 4000.000
T = 62.802
L = 125.593
E = 0.493
BANK= NC

VT STATE PLANE GRID

N

0 10 20 30

SCALE IN METERS

CLD 02-0448 MODEL: 8B

ALIGNMENT & PAVEMENT LAYOUT 8B

PROJECT NAME: BRANDON
PROJECT NUMBER: NH 019-3(496)

FILE NAME: zb008s6-ali.dgn
PROJECT LEADER: C. BEAN
DESIGNED BY: P. SHEDD

PLOT DATE: 2/23/2017
DRAWN BY: S. GOODWIN
CHECKED BY: D. MUNRO
SHEET 98 OF 601

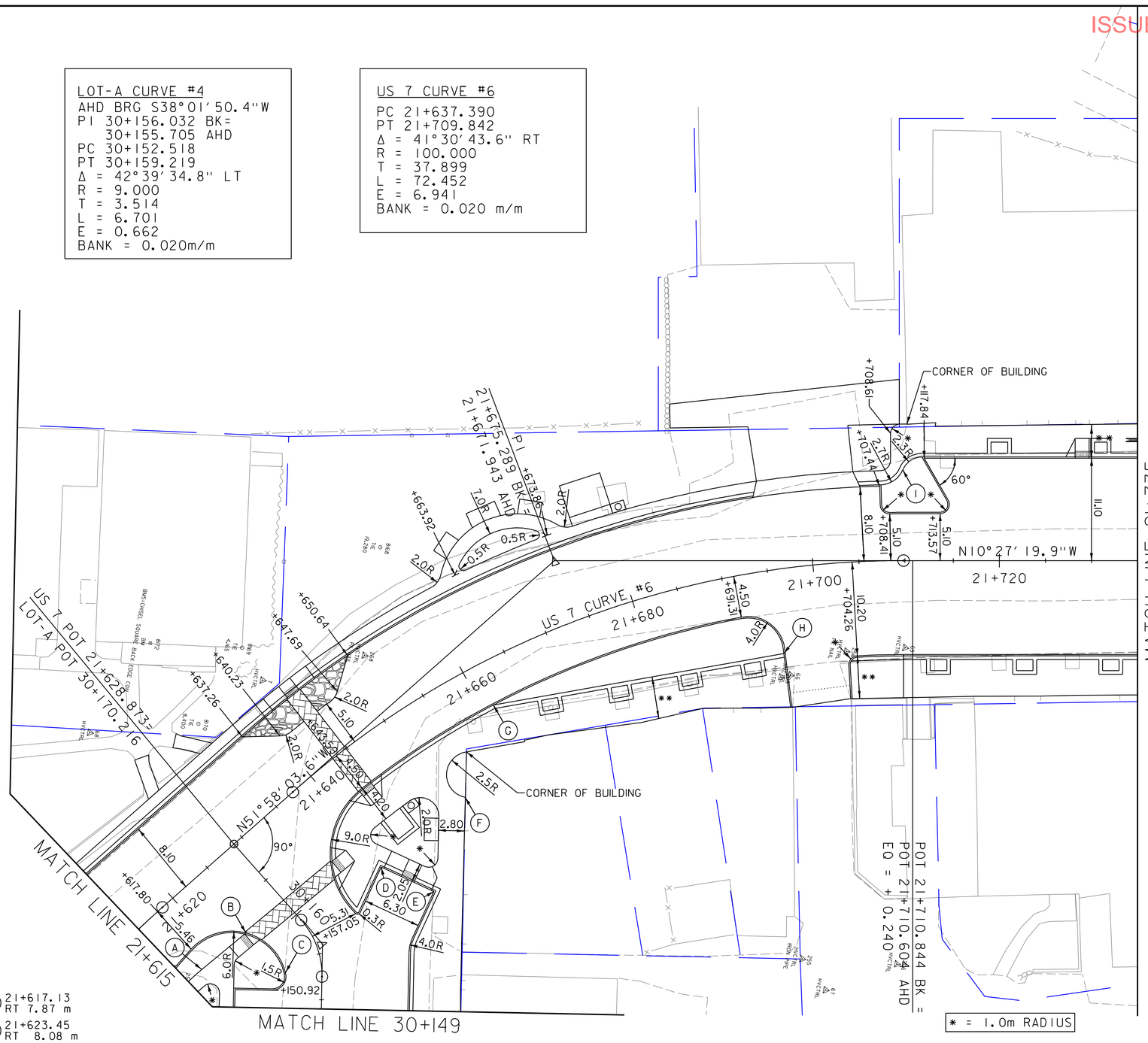
ISSUED FOR CONSTRUCTION

VAOT Metric

LOT-A CURVE #4
AHD BRG S38°01'50.4"W
PI 30+156.032 BK=
30+155.705 AHD
PC 30+152.518
PT 30+159.219
Δ = 42°39'34.8" LT
R = 9.000
T = 3.514
L = 6.701
E = 0.662
BANK = 0.020m/m

US 7 CURVE #6
PC 21+637.390
PT 21+709.842
Δ = 41°30'43.6" RT
R = 100.000
T = 37.899
L = 72.452
E = 6.941
BANK = 0.020 m/m

VT STATE PLANE GRID N



(A) 21+617.13 RT 7.87 m
(B) 21+623.45 RT 8.08 m
(C) 30+153.15 LT 3.95 m
(D) 30+158.54 RT 10.37 m
(E) 30+156.34 RT 14.01 m
(F) 21+652.90 RT 11.77 m
(G) 21+661.27 RT 4.65 m
(H) 21+695.51 RT 9.16 m
(I) 21+709.77 LT 9.86 m

* = 1.0m RADIUS

** = WIDTH VARIES TO FACE OF BUILDING

STAMPED CROSSWALKS

STAMPED ISLANDS

0 10 20 30
SCALE IN METERS

ALIGNMENT & PAVEMENT LAYOUT 9

PROJECT NAME: BRANDON
PROJECT NUMBER: NH 019-3(496)

FILE NAME: zb008s6-ali.dgn
PROJECT LEADER: C. BEAN
DESIGNED BY: P. SHEDD
PLOT DATE: 2/23/2017
DRAWN BY: S. GOODWIN
CHECKED BY: D. MUNRO
SHEET 99 OF 601

CLD 02-0448 MODEL: 9

ISSUED FOR CONSTRUCTION

VAOT Metric

VT STATE PLANE GRID N

MATCH LINE 21+870

US 7 POC 21+839.078=
W. SEMINARY RD POT 9+000

21+866.1
RT 12.90m
(MATCH INTO EXISTING CURB)

21+860
4.50
+854.59
25.0R

21+840
N52° 18' 4"E
68° 00' 26.6"
3.73
+016.27
+022.23
+028.25
+034.23
+034.88

MATCH EXISTING E.P.

+817.66
21+820
4.50
+801.02
1.50
21+800
+770.05
21+784.0
US 7 CURVE #7
21+800.50
0.6R
+800.14
90°
21+780
90°
+762.31
+748.86
+755.92
7.50
+756.45
21+760
+761.49
4.50
4.0R
11.10
10.20
21+740
2.4R
5.15
2.4
0.5R
+751.22
+710.15
2.15
1.65
2.2
+814.67
5.70
020
+019.15
2.0R
WEST 6.60
6.60
TH-69
SEMINARY STREET
60.0R
N82° 36' 55.7"W
3.60
3.60
9+040
N10° 27' 19.9"W
0.5R
2.15
9+060
CURVE #1
9+080
N39° 17' 53.1"E
9+100

SIDEWALK RAMP/WALL
SEE RETAINING WALL
#3 DETAILS

21+745.63
CORNER OF
BUILDING

MATCH LINE 21+735

A	21+743.40 LT 11.08 m	H	21+765.74 LT 5.55 m
B	21+743.33 LT 7.73 m	I	21+755.80 RT 6.48 m
C	21+742.70 LT 6.38 m	J	21+768.05 RT 7.06 m
D	21+746.62 LT 5.73 m	K	21+767.66 RT 14.24 m
E	21+758.71 LT 5.80 m	L	21+779.52 RT 17.97 m
F	21+761.12 LT 5.10 m	M	21+788.57 RT 19.12 m
G	21+763.77 LT 5.10 m	N	21+795.89 RT 14.19 m
		O	21+802.75 RT 9.71 m

* = 1.0m RADIUS

** = WIDTH VARIES TO FACE OF BUILDING

9 + 090.000
LIMIT OF WORK

STAMPED CROSSWALKS

0 10 20 30
SCALE IN METERS

US 7 CURVE #7
PI 21+824.189 BK=
21+801.626 AHD
PC 21+741.120
Δ = 72° 09' 35.8" LT
R = 114.000
T = 83.069
L = 143.575
E = 27.055
BANK= SEE BANKING DIAGRAMS

W. SEMINARY CURVE #1
PI 9+062.162 BK=
9+062.027 AHD
PC 9+046.432
PT 9+077.757
Δ = 13° 00' 21.3" LT
R = 138.000
T = 15.730
L = 31.325
E = 0.894
BANK = N.C.

ALIGNMENT & PAVEMENT LAYOUT 10

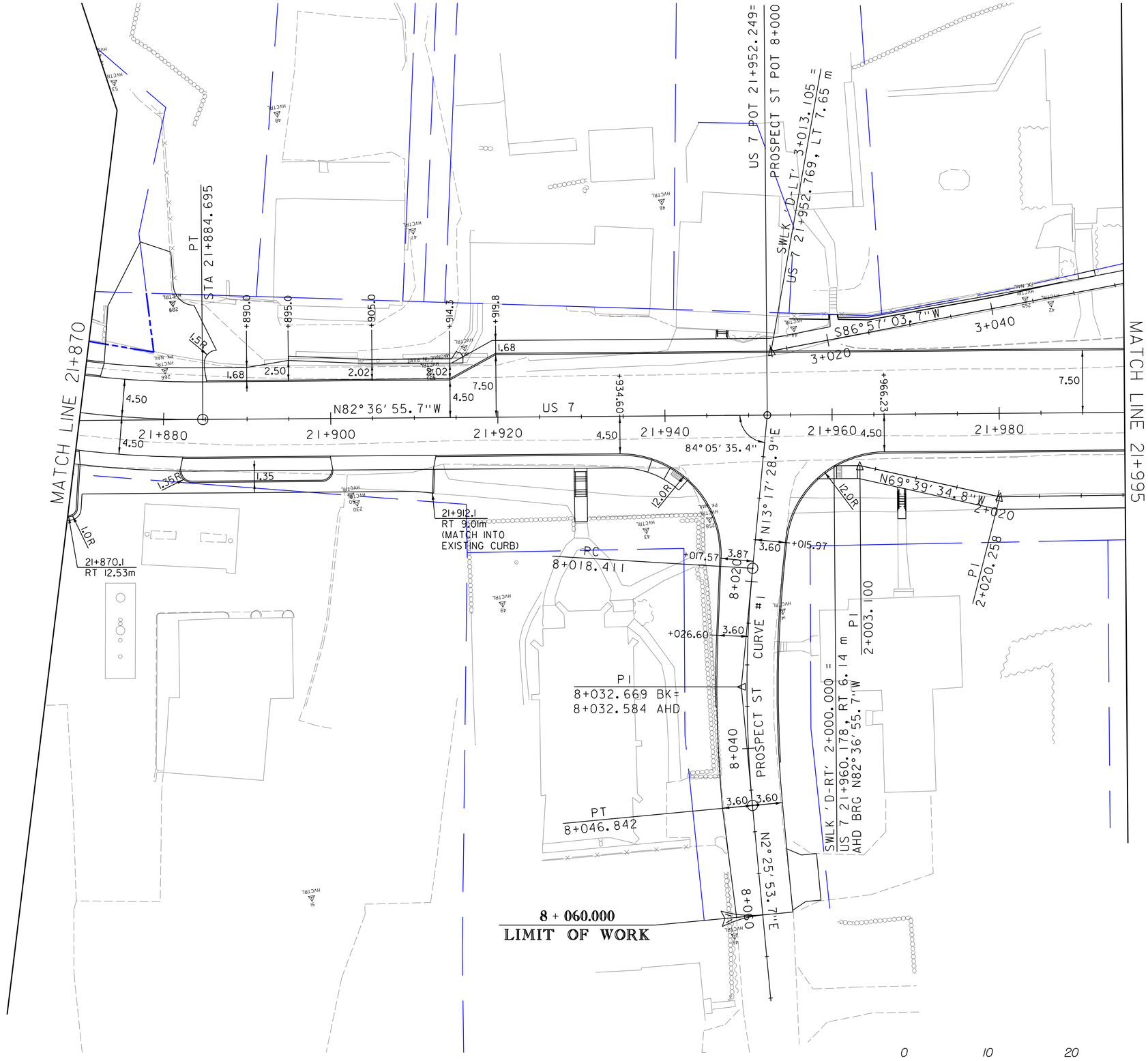
PROJECT NAME: BRANDON
PROJECT NUMBER: NH 019-3(496)

FILE NAME: zb008s6-ali.dgn
PROJECT LEADER: C. BEAN
DESIGNED BY: P. SHEDD
PLOT DATE: 2/23/2017
DRAWN BY: S. GOODWIN
CHECKED BY: D. MUNRO
SHEET 100 OF 601

CLD 02-0448 MODEL:10

ISSUED FOR CONSTRUCTION

VAOT Metric



WIDTH OF PROPOSED SIDEWALK VARIES TO MATCH BACK OF EXISTING WALL.

3+020.7 TO 3+044.5 LT

PROSPECT ST CURVE #1

Δ = 10°51'35.2" LT
R = 150.000
T = 14.258
L = 28.431
E = 0.676
BANK = SEE BANKING DIAGRAMS

0 10 20 30

SCALE IN METERS

ALIGNMENT & PAVEMENT LAYOUT 11

PROJECT NAME: BRANDON
PROJECT NUMBER: NH 019-3(496)

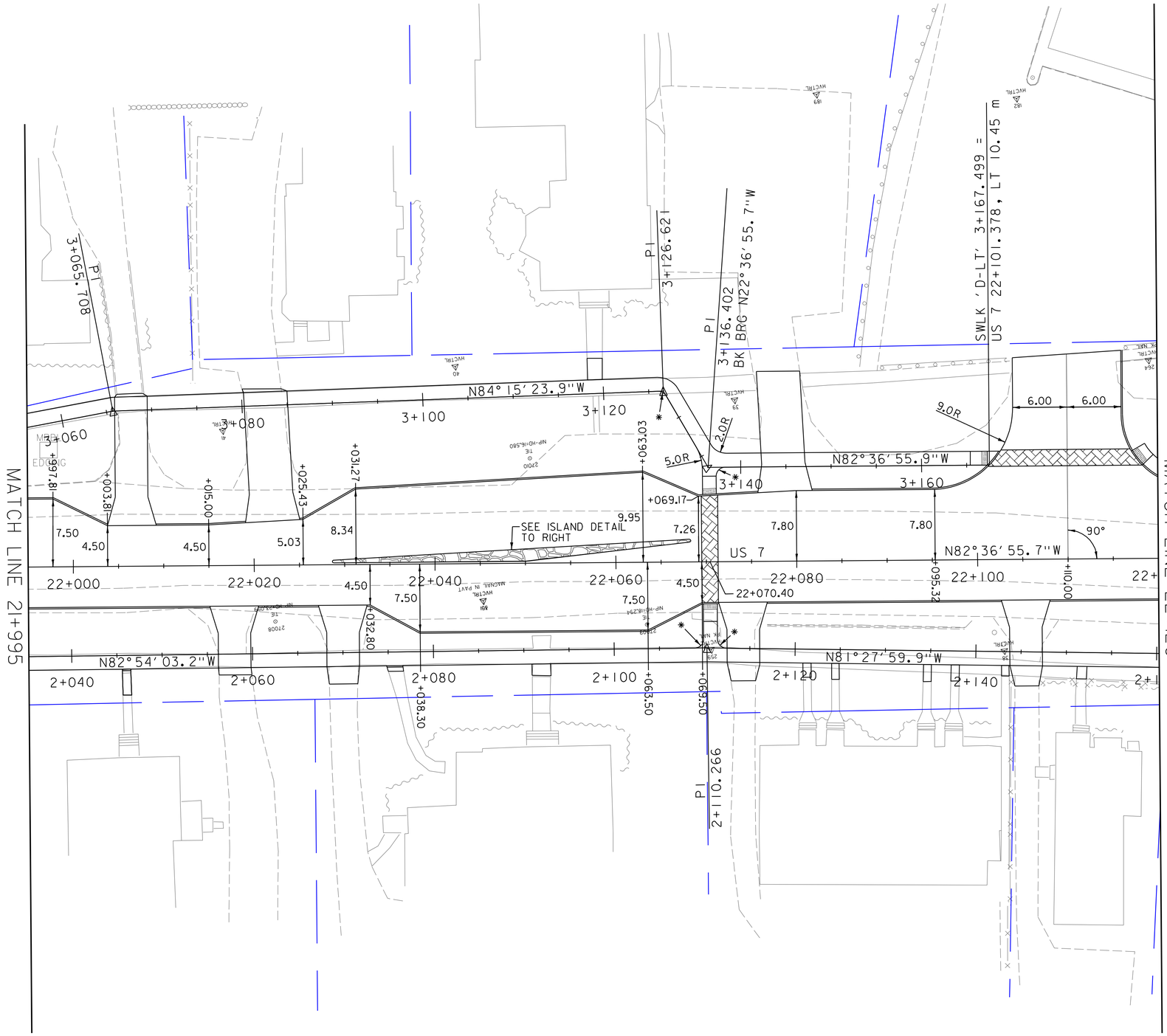
FILE NAME: zb008s6-ali.dgn
PROJECT LEADER: C. BEAN
DESIGNED BY: P. SHEDD

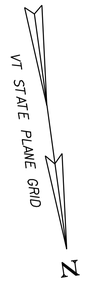
PLOT DATE: 2/23/2017
DRAWN BY: S. GOODWIN
CHECKED BY: D. MUNRO
SHEET 101 OF 601

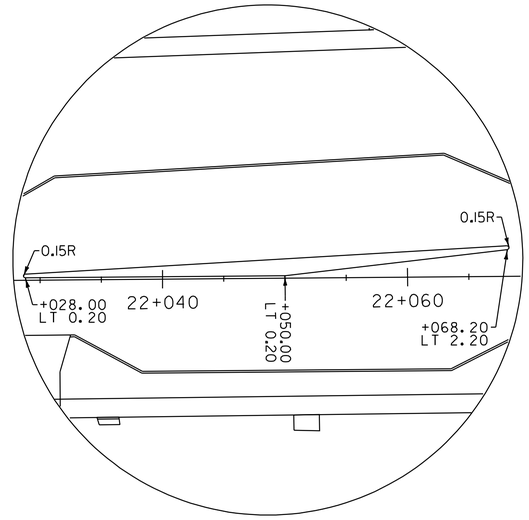
CLD 02-0448 MODEL: 11

ISSUED FOR CONSTRUCTION

VAOT Metric







ISLAND DETAIL

* = 1.0m RADIUS

STAMPED CROSSWALKS

STAMPED ISLANDS

0 10 20 30

SCALE IN METERS

ALIGNMENT & PAVEMENT LAYOUT 12

PROJECT NAME: BRANDON

PROJECT NUMBER: NH 019-3(496)

FILE NAME: zb0008s6-ali.dgn
PROJECT LEADER: C. BEAN
DESIGNED BY: P. SHEDD

PLOT DATE: 2/23/2017
DRAWN BY: S. GOODWIN
CHECKED BY: D. MUNRO
SHEET 102 OF 601

CLD 02-0448 MODEL: 12

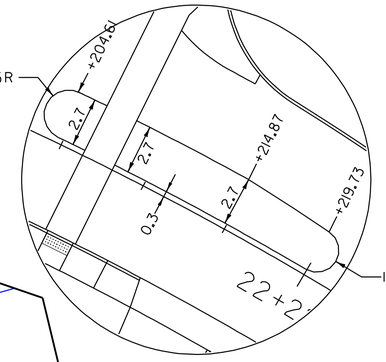
ISSUED FOR CONSTRUCTION

VAOT Metric

SEE PLAN 13A

VT STATE PLANE GRID

N



ISLAND DETAIL

PROPOSED SIDEWALK TO GENERALLY MATCH EXISTING LOCATION/ELEVATION AT BACK OF SIDEWALK UNLESS SHOWN OTHERWISE ON PLANS/SECTIONS OR AS DIRECTED BY THE ENGINEER.

19+044.1 TO 19+085.0 LT

US 7 CURVE #8
BK BRG N82°36'55.7"W
AHD BRG N36°19'52.5"W
PI 22+199.792 BK=
22+191.332 AHD
Δ = 46°17'03.2" RT
R = 180.000
T = 76.933
L = 145.406
E = 15.752
BANK = 0.035m/m

PEARL ST CURVE #1
BK BRG S16°03'27.8"W
AHD BRG S35°21'35.9"W
PI 19+016.155 BK=
19+015.849 AHD
PT 19+032.004
Δ = 19°18'08.1" RT
R = 95.000
T = 16.155
L = 32.004
E = 1.364
BANK = N.C.

PEARL ST CURVE #2
BK BRG S35°21'35.9"W
AHD BRG S23°22'11.8"W
Δ = 11°59'24.2" LT
R = 320.000
T = 33.605
L = 66.965
E = 1.760
BANK = N.C.

VT 73 WEST CURVE #1
BK BRG S45°59'41.9"W
AHD BRG S84°18'05.0"W
PI 18+024.312 BK=
18+022.488 AHD
PT 18+046.800
Δ = 38°18'23.1" RT
R = 70.000
T = 24.312
L = 46.800
E = 4.102
BANK = N.C.

Ⓐ 19+015.32 LT 5.76 m
Ⓑ 19+046.77 LT 10.46 m
Ⓒ 22+155.92 LT 14.58 m
Ⓓ 22+176.21 LT 23.32 m
Ⓔ 22+184.39 LT 18.56 m
Ⓕ 4.0 R
Ⓖ 7.0R, CENTER 18+028.80 RT 6.68 m
Ⓗ 18+023.02 LT 9.88 m
Ⓘ 18+021.44 LT 26.50 m
Ⓙ 18+028.73 LT 7.88 m
Ⓚ 18+025.15 LT 32.34 m

PC 19+036.706
PEARL ST CURVE #2
19+060
19+080
4.20
3.6R
PI 19+070.311 BK=
19+070.066 AHD
19+040
4.20
033.16
19+020 CURVE #1
4.20
020.46
20.0R
7.25
+016.61
30.0R
9.0R
8.0R
22+161.69 LT 30.58 m
SEE FOUNTAIN DETAIL ON MISC. DETAILS SHEET
5.0
1.0R
2.0
15.0R
60.0R
4.0R
5.0R
SWLK, F-LT, 4+998.41=
22+208.034, LT 15.32 m
AHD BRG N 50°48'58.0"W
3.3
6.0
90°
120°
150°
6.0
5.0R
18+060
4.20
050.06
4.20
033.03
18+040
+036.41
7.49
VT 73 W.
5.48
+027.62
12.65
+023.90
4.44
+020.80
60.0R
+053.04
4.20
+059.03
3.0R
1.5
0.5R
1.5
19.0R
1.0R
9.0R
8.0R
+212.75
7.80
+211.26
7.80
+205.96
5+020
22+220
SEE ISLAND DETAIL ABOVE
1.4R
4.50
1.8R
MATCH LINE 22+235
SEE PLAN 13A
MATCH LINE 22+120
8.18
+125.79
93°32'6.9"
120
4.50
22+140
22+160
US 7 CURVE #8
7.80
+155.88
7.80
+165.88
11.92
+183.94
28.0R
CURVE #
72°19'34.7"
22+180
1.2
1.2
0.5R
+172.82
0.9
+181.88
0.5R
22+200
60
2+180
PC
STA 22+122.859
US 7 POC 22+139.001=
PEARL ST POC 19+000
AHD BRG S78°12'53.6"W
PI 2+184.000
SWLK, D-RT, 2+194.883=
US 7 22+155.000, RT 4.65 m
VT 73 WEST POC 18+000
US 7 POC 22+188.634=

* = 2.0m RADIUS

** = WIDTH VARIES TO FACE OF BUILDING

STAMPED CROSSWALKS
STAMPED ISLANDS

0 10 20 30
SCALE IN METERS

ALIGNMENT & PAVEMENT LAYOUT 13

PROJECT NAME: BRANDON
PROJECT NUMBER: NH 019-3(496)

FILE NAME: zb008s6-ali.dgn
PROJECT LEADER: C. BEAN
DESIGNED BY: P. SHEDD
PLOT DATE: 2/23/2017
DRAWN BY: S. GOODWIN
CHECKED BY: D. MUNRO
SHEET 103 OF 601

CLD 02-0448 MODEL: i3

ISSUED FOR CONSTRUCTION

VAOT Metric

PROPOSED SIDEWALK TO GENERALLY MATCH EXISTING LOCATION/ELEVATION AT BACK OF SIDEWALK UNLESS SHOWN OTHERWISE ON PLANS/SECTIONS OR AS DIRECTED BY THE ENGINEER.

19+085.0 TO 19+105.0 LT

VT STATE PLANE GRID

N

PT 19+103.671

PEARL ST TH-4

S23° 22' 11.8"W

19+100

19 + 105.000
LIMIT OF WORK

SEE PLAN 13

18 + 103.000
LIMIT OF WORK

+075.0

+079.8

1.53

4.55

4.20

S84° 18' 05.0"W

18+100

3.1

1.2

18+080

4.20

+070.0

+082.50

VT 73

TH-3

18+120

SEE PLAN 13

0 10 20 30

SCALE IN METERS

ALIGNMENT & PAVEMENT LAYOUT 13A

PROJECT NAME: BRANDON

PROJECT NUMBER: NH 019-3(496)

FILE NAME: zb008s6-ali.dgn
PROJECT LEADER: C. BEAN
DESIGNED BY: P. SHEDD

PLOT DATE: 2/23/2017
DRAWN BY: S. GOODWIN
CHECKED BY: D. MUNRO
SHEET 104 OF 601

CLD 02-0448 MODEL: 13A

ISSUED FOR CONSTRUCTION

VAOT Metric

SWLK 'F-LT' CURVE #1

PC 5+004.167
Δ = 16°38'26.0" RT
R = 180.000
T = 26.324
L = 52.278
E = 1.915

VT STATE PLANE GRID N

5+030.491 BK =
5+030.120 AHD
PI

5+056.444
PT

N34°10'32.0"W

5+040
MONUMENT
5+060
5+080
5+100
5+120
5+140
5+

MATCH LINE 22+235

4.50
N36°19'52.5"W
US 7
4.50

22+240
4.50
22+260
22+280
22+300
22+320
22+340
4.50
22+360

MATCH LINE 22+365

1.8R
1.8R
1.8R
1.8R

PT
22+268.265

SWLK 'F-RT' 4+046.972 = 22+313.451, RT 4.65 m

N13°03'15.6"W
4+060
N36°20'04.6"W
4+080
4+

PI
STA 4+065.000

0 10 20 30
SCALE IN METERS

ALIGNMENT & PAVEMENT LAYOUT 14

PROJECT NAME: BRANDON
PROJECT NUMBER: NH 019-3(496)

FILE NAME: zb008s6-ali.dgn
PROJECT LEADER: C. BEAN
DESIGNED BY: P. SHEDD

PLOT DATE: 2/23/2017
DRAWN BY: S. GOODWIN
CHECKED BY: D. MUNRO
SHEET 105 OF 601

CLD 02-0448 MODEL: 14

ISSUED FOR CONSTRUCTION

VAOT Metric

VT STATE PLANE GRID

N

MATCH LINE 22+365

MATCH LINE 22+520

PI 5+178.271

SWLK 'F-LT' 5+190.023=
22+394.741, LT 4.65 m
BK BRG N25°06'37.6"W

PI 22+432.833 BK=
22+432.777 AHD

5+180
5+190
4+050
4.50
4.50
22+380
22+400
22+420
US 7 CURVE #9
22+440
22+460
22+480
22+500
4+490.0
6.15
6.15
3.0R
1.5R
1.5R
1.5R
N36° 19' 52.5"W
N31° 08' 00.5"W
N36° 20' 04.6"W
N47° 30' 26.2"W
4+160
4+120
4+140
00

PC 22+391.981

PI 4+141.793

SWLK 'F-RT' 4+170.262=
22+435.000, RT 5.23 m

PT 22+473.628

US 7 CURVE #9
Δ = 5° 11' 52.1" RT
R = 900.000
T = 40.851
L = 81.647
E = 0.927
BANK = N.C.

0 10 20 30
SCALE IN METERS

ALIGNMENT & PAVEMENT LAYOUT 15

PROJECT NAME: BRANDON
PROJECT NUMBER: NH 019-3(496)

FILE NAME: zb008s6-ali.dgn
PROJECT LEADER: C. BEAN
DESIGNED BY: P. SHEDD

PLOT DATE: 2/23/2017
DRAWN BY: S. GOODWIN
CHECKED BY: D. MUNRO
SHEET 106 OF 601

CLD 02-0448 MODEL: 15

ISSUED FOR CONSTRUCTION

VAOT Metric

VT STATE PLANE GRID N

22 + 630.000
END PROJECT
NH 019-3(496)
BEGIN APPROACH

22 + 680.000
END APPROACH

MATCH LINE 22+520

1.5R 1.5R 0.9R 1.8R 0.9R 1.83 0.9R 1.0R 1.83 0.9R

6.15 6.15 4.80 4.80 6.20

US 7

N31°08'00.5"W

22+520 22+540 22+560 22+580 22+600 22+620 22+640 22+660 22+680 22+700

6.00 6.00 6.21 6.22

+550.0 +650.0 +656.0

0 10 20 30
SCALE IN METERS

ALIGNMENT & PAVEMENT LAYOUT 16

PROJECT NAME: BRANDON
PROJECT NUMBER: NH 019-3(496)

FILE NAME: zb008s6-ali.dgn
PROJECT LEADER: C. BEAN
DESIGNED BY: P. SHEDD

PLOT DATE: 2/23/2017
DRAWN BY: S. GOODWIN
CHECKED BY: D. MUNRO
SHEET 107 OF 601

CLD 02-0448 MODEL: 16

ISSUED FOR CONSTRUCTION

VAOT Metric

CONSTRUCT DRIVES
20+786.4 RT (3.6 m WIDE, PAVED-RES.)
20+796.8 LT (16.4 m WIDE, PAVED-COMM.)

VERTICAL GRANITE CURB
20+791.8 - 20+815.0 RT

REMOVING TREES
REMOVING STUMPS
20+807.3 RT (S)

VT STATE PLANE GRID N

20 + 735.617
BEGIN APPROACH

20 + 778.000
END APPROACH
BEGIN PROJECT
NH 019-3(496)

IRON PIN
GUY WIRE
32-I
32-I
FIRE STATION
FLAG POLE
GRAVEL
PAVED
STN.
DI
HVCTRL
HANDICAP SIGN
GUY WIRE
HYD.
GV(4)
GUY POLE
S.L.40
STATE HWY BEGINS
SMH
20+660
20+680
US 7
20+700
20+720
20+740
20+760
20+780
20+800
GRASS ISLAND
AMERICAN LEGION
GRANITE CURB
SHRUBS
LONG PAD
HANDICAP SIGN
GV
HYD.
DELIN.
GR.CURB
DELIN.(2)
ST.36
STATE HWY ENDS
WSO
GUY WIRES(3)
M. MAPLE
M. ELM
M. POPLAR
M. BASSWOOD
BASSWOOD(2)
BND
BND=STUMP
S. SPRUCES
S/M. WALNUTS
S.CEDARS(6)
LILAC
M. PINE
2 SWF
PAVED DRIVE
WOODS
MARBLE BND
BARB WIRE FENCE
WOODS/ LEDGE
M. MAPLES
BUILDING
FLAG POLE
PAVED
IRON PIPE
POT 20+777.617 BK
POT 20+778.000 AHD =
EQ. = -0.383 m
MATCH LINE 20+815

NOTE THAT REMOVAL OF SHRUBS AND SMALL TREES ARE NOTED FOR INFORMATION ONLY AND ARE INCIDENTAL TO THE CONTRACT.

SEE STRUCTURAL/SPECIAL SOIL PLANS FOR LIMITS OF PROPOSED STRUCTURAL SOIL AND LANDSCAPE BACKFILL

0 10 20 30
SCALE IN METERS

ROADWAY LAYOUT 1

PROJECT NAME: BRANDON
PROJECT NUMBER: NH 019-3(496)

FILE NAME: zb008s6-gen.dgn
PROJECT LEADER: C. BEAN
DESIGNED BY: P. SHEDD
PLOT DATE: 2/23/2017
DRAWN BY: N. LEMAY
CHECKED BY: D. MUNRO
SHEET 108 OF 601

CLD 02-0448 MODEL:1

ISSUED FOR CONSTRUCTION

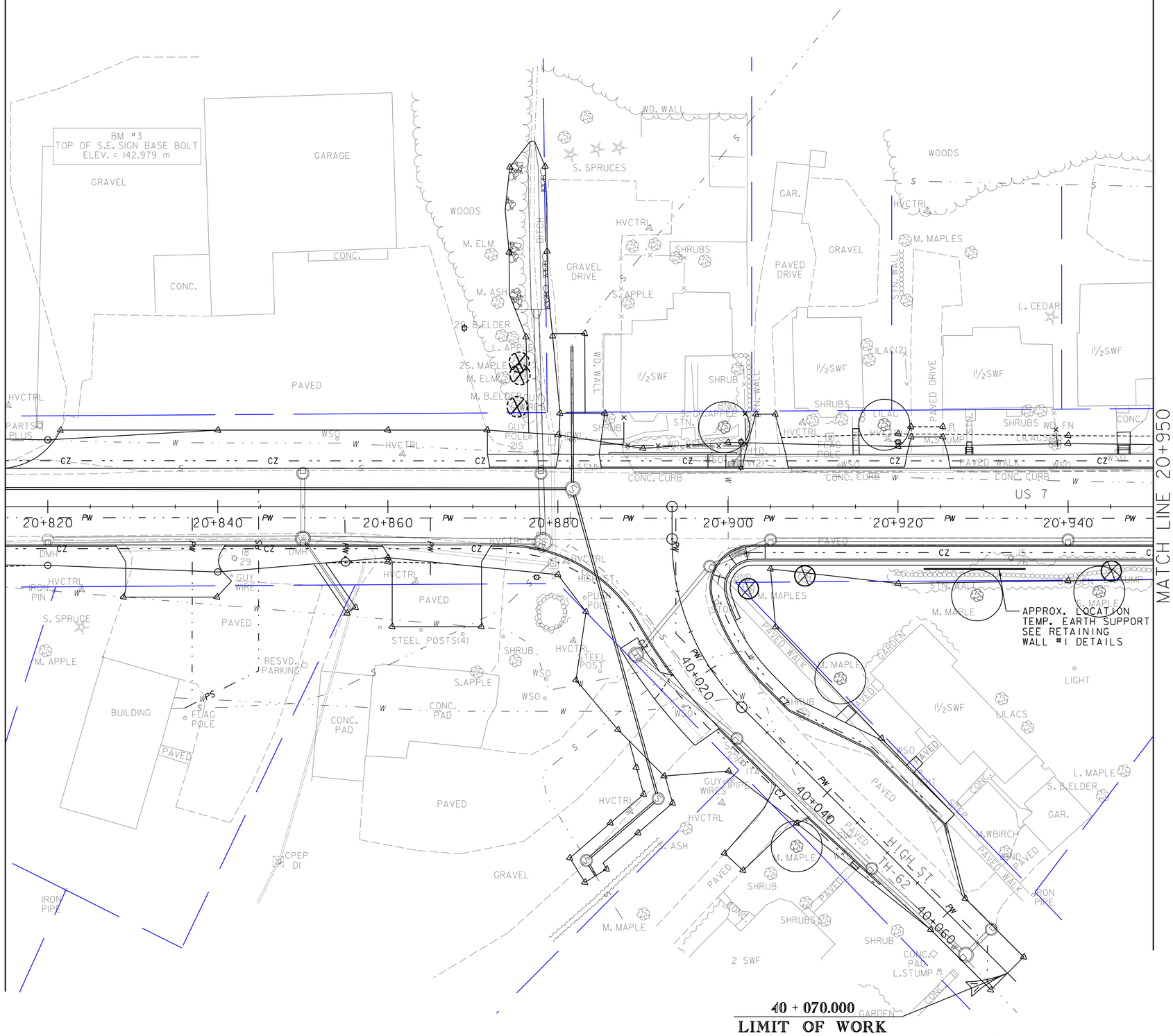
VAOT Metric

VT STATE PLANE GRID N

CONSTRUCT DRIVES
20+821.5 - 21+871.7 LT (50.2 m WIDE, PAVED - COMM.)
20+834.4 RT (10.9 m WIDE, PAVED - COMM.)
20+865.8 RT (10.5 m WIDE, PAVED - COMM.)
20+882.4 LT (4.8 m WIDE, GRAVEL - RES.)
20+904.4 LT (4.8 m WIDE, PAVED - RES.)
20+923.5 LT (4.8 m WIDE, PAVED - RES.)
40+021.9 RT (7.2 m WIDE, PAVED - COMM.)
40+037.8 RT (3.6 m WIDE, PAVED - RES.)

PORTLAND CEMENT CONCRETE SIDEWALK, 125 mm
20+871.7 - 20+950.0 LT
20+885.2 - 20+887.7 LT (0.6 m WIDE, SLOPE= 0.0%)
20+915.1 LT (0.7 m WIDE, SLOPE=6.0%)
20+946.6 LT (1.5 m WIDE, SLOPE=1.1%)
40+052.4 LT - 20+950.0 RT

CONSTRUCT SIDEWALK RAMP W/ DETECTABLE WARNING SURFACE (YELLOW)
20+900.5 LT (TYPE 6)
20+901.0 RT (TYPE 6)



0 10 20 30
SCALE IN METERS

BITUMINOUS CONCRETE SIDEWALK
40+035.1 LT (1.3 m WIDE, SLOPE=1.0%)
40+044.9 LT (1.2 m WIDE, SLOPE=0.5%)
40+048.3 RT (1.0 m WIDE, SLOPE=20.0%)

SPECIAL PROVISION (REMOVE AND RESET STONE WALKWAY)
20+928.4 LT (0.6 m WIDE, SLOPE=5.0%)

CONSTRUCT CONCRETE STEPS
20+928.4 LT (0.9 m WIDE, 2 RISERS)
20+946.6 LT (1.5 m WIDE, 2 RISERS)

SPECIAL PROVISION (METAL HAND RAILING)
20+928.2 LT
20+928.8 LT
20+946.0 LT
20+947.2 LT

REMOVING AND RESETTING FENCE
20+887.7 - 20+902.1 LT
20+938.8 LT

VERTICAL GRANITE CURB
20+815.0 - 20+828.0 RT
20+840.8 - 20+859.4 RT
20+872.0 - 20+879.8 LT
20+872.1 - 40+018.3 RT
20+885.1 - 20+901.7 LT
20+886.0 - 20+901.0 LT (BEHIND SWLK)
20+907.1 - 20+920.8 LT
20+926.1 - 20+950.0 LT
40+025.8 - 40+035.1 RT
40+030.0 LT - 20+950.0 RT
40+030.0 - 40+040.0 LT (TAPER REVEAL FROM 175 TO 100 mm)
40+040.0 - 40+053.3 LT (100 mm REVEAL)
40+040.5 - 40+052.0 RT

BITUMINOUS CONCRETE GUTTERS AND TRAFFIC ISLANDS
40+013.5 - 40+018.4 RT (2.4 m GUTTER)

REBUILT STONE MASONRY (RESET STONE WALL)
20+902.5 LT

CONSTRUCT STONE WALL (SEE RETAINING WALL #1 DETAILS)
40+016.0 LT - 20+950.0 RT

REMOVING TREES
REMOVING STUMPS
20+902.4 RT (M)
20+909.0 RT (M)
20+945.1 RT (L) (STUMP)

REMOVING SHRUBS
20+938.5 LT
40+031.5 LT

ROADWAY LAYOUT 2

PROJECT NAME: BRANDON
PROJECT NUMBER: NH 019-3(496)

FILE NAME: zb008s6-gen.dgn
PROJECT LEADER: C. BEAN
DESIGNED BY: P. SHEDD
PLOT DATE: 2/23/2017
DRAWN BY: N. LEMAY
CHECKED BY: D. MUNRO
SHEET 109 OF 601

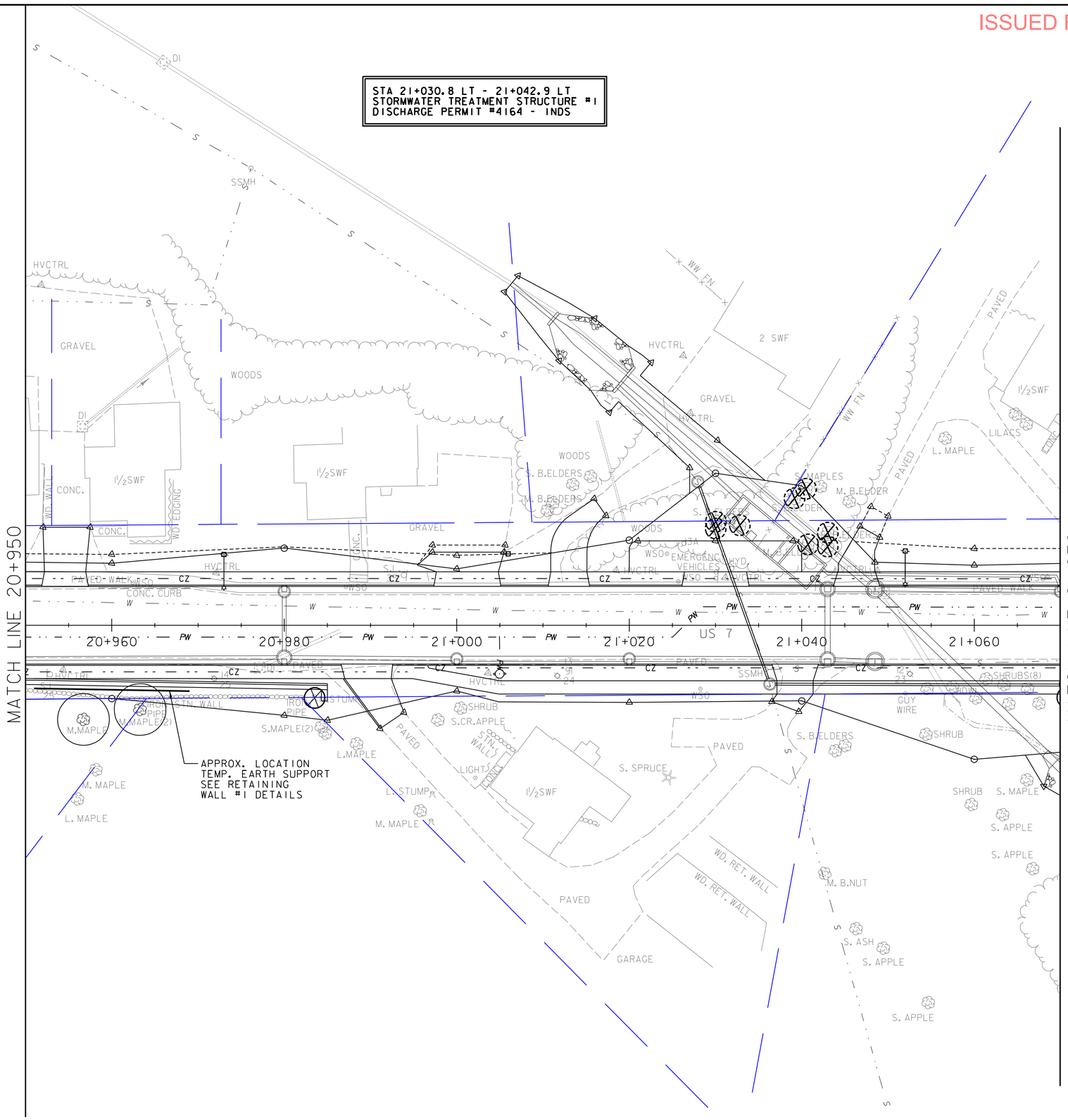
CLD 02-0448 MODEL: 2

ISSUED FOR CONSTRUCTION

VAOT Metric

STA 21+030.8 LT - 21+042.9 LT
STORMWATER TREATMENT STRUCTURE #1
DISCHARGE PERMIT #4164 - INDS

VT STATE PLANE GRID



0 10 20 30

SCALE IN METERS

CONSTRUCT DRIVES
20+954.6 LT (4.8 m WIDE, CONC. - RES.)
20+989.6 RT (5.4 m WIDE, PAVED - RES.)
21+001.2 LT (7.2 m WIDE, GRAVEL - RES.)
21+013.0 LT (4.2 m WIDE, GRAVEL - RES.)
21+030.0 LT (7.2 m WIDE, GRAVEL - COMM.)
21+039.2 RT (4.2 m WIDE, PAVED - RES.)
21+046.4 LT (4.2 m WIDE, PAVED - RES.)

PORTLAND CEMENT CONCRETE SIDEWALK, 125 mm
20+950.0 - 21+070.0 RT
20+950.0 - 21+024.9 LT
21+035.1 - 21+070.0 LT

PORTLAND CEMENT CONCRETE SIDEWALK, 200 mm
21+024.9 - 20+035.1 LT

WOOD BRACE FOR WOVEN WIRE FENCE
21+039.3 LT

REMOVAL OF EXISTING FENCE
21+034.6 - 21+039.3 LT

VERTICAL GRANITE CURB
20+950.0 - 20+951.9 LT
20+950.0 - 20+986.6 RT
20+957.3 - 20+997.4 LT
20+987.0 - 20+991.2 RT (DRIVE)
20+992.5 - 21+036.6 RT
21+005.1 - 21+010.6 LT
21+015.4 - 21+026.1 LT
21+033.9 - 21+043.7 LT
21+041.9 - 21+070.0 RT
21+049.1 - 21+070.0 LT

CONSTRUCT STONE WALL (SEE RETAINING WALL #1 DETAILS)
20+950.0 - 20+985.0 RT

REMOVING TREES
REMOVING STUMPS
20+983.5 RT (M) (STUMP)

REMOVING SHRUBS
21+054.4 RT
21+054.5 RT
21+057.5 RT
21+060.2 RT
21+061.4 RT
21+063.5 RT
21+064.0 RT
21+066.2 RT
21+067.5 RT

ROADWAY LAYOUT 3

PROJECT NAME: BRANDON
PROJECT NUMBER: NH 019-3(496)

FILE NAME: zb008s6-gen.dgn
PROJECT LEADER: C. BEAN
DESIGNED BY: P. SHEDD
PLOT DATE: 2/23/2017
DRAWN BY: N. LEMAY
CHECKED BY: D. MUNRO
SHEET 110 OF 601

CLD 02-0448 MODEL: 3

ISSUED FOR CONSTRUCTION

VT STATE PLANE GRID N

MATCH LINE 21+070

MATCH LINE 21+210

US 7

21+080 21+100 21+120 21+140 21+160 21+180 21+200

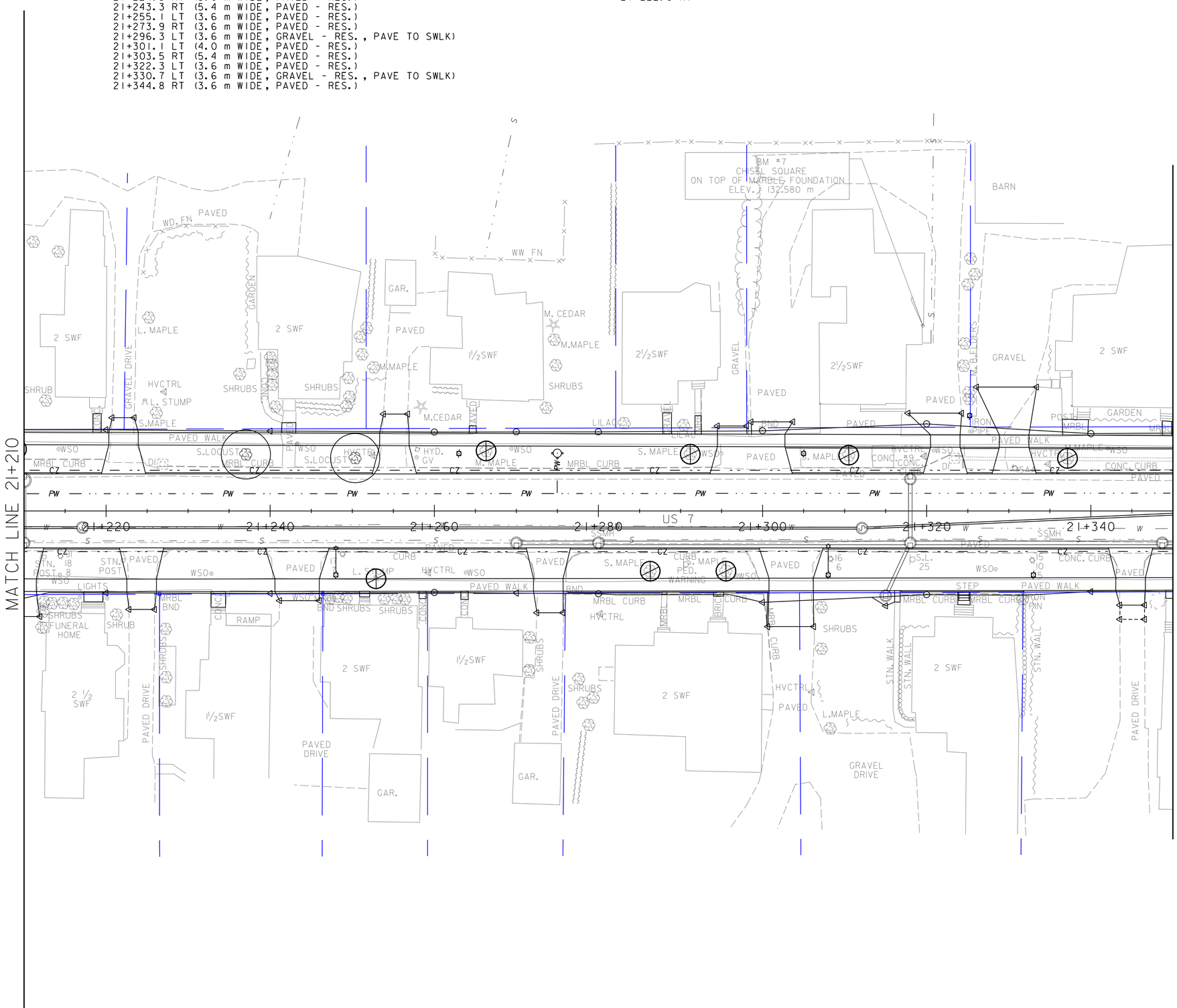
BARN, CONC. PAD, FLAG POLE, M. MAPLE, S.CHERRY(2), LILAC, PAVED DRIVE, STONE, S.ELM, M.APPLE, SHRUB, SHRUBS(3), 3 SWF, GARDEN, LIGHT, S. APPLE, S. SPRUCE, M.PINE, L.MAPLE, I½SWF, SHRUBS(4), S.SPRUCE, WOOD FENCE, HVCTRL, M. HEMLOCK, IRON PIN, HAND RAIL, BND, PAVED WALK, CONC. CURB, WSO, M.MAPLE, ELEV. 22.9 HVCTRL, MRBL BND, SHRUBS(2), GUY WIRE, M.WALNUT, CURVE WARN., SHRUBS(2), GRAVEL DRIVE, LILAC, SHRUB, M.SPRUCE(2), HVCTRL #10, PAVED WALKS, S.SPRUCE, PAVED DRIVE, CONC., WET AREA, STREAM, WOODS, CONC. PAD, GAR., I½SWF, HVCTRL, TRAV. PT. #2 VTGS DISK IN CONC. MON. "GRIFFIN 1997", GARAGE, M.STUMP, CONC. WALK, M. STUMP, SHRUBS, WOODS, 19-1 9 1 2-1, M. MAPLE, M. MAPLE, LILACS, MRBL CURB, PAVED, LILAC, I½SWF, GRAVEL DRIVE, BIT. CURB, PAVED, PAVED WALK, PAVED WSO, HVCTRL, PAVED, GUY WIRE, 19 12 UST, IRON PIN, PAVED DRIVE, MRBL CURB, 2 SWF, M. APPLE, LIGHT, S. MAPLES, GRAVEL, SHRUB, WW FN, ROSEBELLE'S B&B, LIGHTS, MRBL STEP, HVCTRL, PAVED, SHRUBS, S.MAPLE, S.MAPLE, PAVED DRIVE, PAVED, PAVED, PAVED

ISSUED FOR CONSTRUCTION

VAOT Metric

CONSTRUCT DRIVES
21+222.1 LT (3.6 m WIDE, GRAVEL - RES., PAVE TO SWLK)
21+224.3 RT (3.6 m WIDE, PAVED - RES.)
21+243.3 RT (5.4 m WIDE, PAVED - RES.)
21+255.1 LT (3.6 m WIDE, PAVED - RES.)
21+273.9 RT (3.6 m WIDE, PAVED - RES.)
21+296.3 LT (3.6 m WIDE, GRAVEL - RES., PAVE TO SWLK)
21+301.1 LT (4.0 m WIDE, PAVED - RES.)
21+303.5 RT (5.4 m WIDE, PAVED - RES.)
21+322.3 LT (3.6 m WIDE, PAVED - RES.)
21+330.7 LT (3.6 m WIDE, GRAVEL - RES., PAVE TO SWLK)
21+344.8 RT (3.6 m WIDE, PAVED - RES.)

SPECIAL PROVISION (REMOVE AND RESET STONE POST)
21+212.5 RT
21+222.0 RT



PORTLAND CEMENT CONCRETE SIDEWALK, 125 mm
21+210.0 - 21+350.0 LT
21+213.0 - 21+350.0 RT
21+218.9 LT (1.0 m WIDE, SLOPE=4.0%)
21+233.7 RT (1.8 m WIDE, SLOPE=6.0%)
21+258.6 RT (0.9 m WIDE, SLOPE=1.0%)
21+263.7 RT (0.9 m WIDE, SLOPE=2.0%)

PORTLAND CEMENT CONCRETE SIDEWALK, 200 mm
21+210.0 - 21+213.0 RT

BITUMINOUS CONCRETE SIDEWALK
21+218.6 RT (2.3 m WIDE, SLOPE=5.0%)
21+242.3 LT (1.7 m WIDE, SLOPE=6.0%)
21+251.5 RT (1.2 m WIDE, SLOPE=9.0%)
21+264.7 LT (0.8 m WIDE, SLOPE=-2.0%)
21+288.4 LT (1.1 m WIDE, SLOPE=-3.6%)

SPECIAL PROVISION
(REMOVE AND RESET STONE WALKWAY)
21+292.1 LT (0.7 m WIDE, SLOPE=-4.0%)
21+316.4 RT (0.7 m WIDE, SLOPE=8.0%)
21+324.5 RT (1.9 m WIDE, SLOPE=4.4%)
21+338.1 LT (3.0 m WIDE, SLOPE=-7.0%)
21+349.3 LT (1.1 m WIDE, SLOPE=-5.0%)

SPECIAL PROVISION (BRICK PAVING)
21+294.6 RT (1.3 m WIDE, SLOPE=0.0%)

SPECIAL PROVISION (MARBLE WALKWAY)
21+288.0 RT (0.6 m WIDE, SLOPE=-2.0%)

CONSTRUCT CONCRETE STEPS
21+324.5 RT (1.5 m WIDE, 2 RISERS)

SPECIAL PROVISION (METAL HAND RAILING)
21+323.9 RT
21+325.2 RT

VERTICAL GRANITE CURB
21+210.0 - 21+219.5 LT
21+212.4 - 21+221.7 RT
21+224.8 - 21+252.5 LT
21+227.0 - 21+239.4 RT
21+247.1 - 21+271.2 RT
21+257.8 - 21+293.6 LT
21+276.6 - 21+299.6 RT
21+302.8 - 21+320.4 LT (SWLK)
21+303.6 - 21+319.6 LT
21+307.3 - 21+342.2 RT
21+324.1 - 21+328.8 LT (SWLK)
21+324.9 - 21+328.0 LT
21+332.5 - 21+350.0 LT (SWLK)
21+333.3 - 21+350.0 LT
21+347.5 - 21+350.0 RT

REMOVING AND RESETTING CURB
21+276.3 - 21+300.8 RT (BEHIND SWLK)
21+300.6 - 21+300.8 RT (DRIVE)
21+316.9 - 21+331.8 RT (BEHIND SWLK)

REMOVING TREES
REMOVING STUMPS
21+252.9 RT (L) (STUMP)
21+266.3 LT (M)
21+286.3 RT (S)
21+291.2 LT (S)
21+295.5 RT (S)
21+310.5 LT (S)
21+337.2 LT (M)

0 10 20 30
SCALE IN METERS

ROADWAY LAYOUT 5

PROJECT NAME: BRANDON
PROJECT NUMBER: NH 019-3(496)

FILE NAME: zb008s6-gen.dgn
PROJECT LEADER: C. BEAN
DESIGNED BY: P. SHEDD
PLOT DATE: 2/23/2017
DRAWN BY: N. LEMAY
CHECKED BY: D. MUNRO
SHEET 112 OF 601

CLD 02-0448 MODEL: 5

ISSUED FOR CONSTRUCTION

VAOT Metric

CONSTRUCT DRIVES
21+364.2 LT (3.6 m WIDE, GRAVEL - RES., PAVE TO SWLK)
21+379.7 LT (3.6 m WIDE, PAVED - RES.)
21+390.3 RT (3.0 m WIDE, GRAVEL - RES., PAVE TO SWLK)
21+395.3 RT (3.6 m WIDE, PAVED - RES.)
21+401.4 LT (3.6 m WIDE, PAVED - RES.)
36+078.4 LT (7.2 m WIDE, PAVED - RES.)
36+099.8 RT (3.6 m WIDE, PAVED - RES.)

PORTLAND CEMENT CONCRETE SIDEWALK, 125 mm
21+350.0 - 21+410.0 LT
21+350.0 - 21+410.0 RT
21+350.5 RT (2.7 m WIDE, SLOPE= 2.0%)
36+070.0 - 36+101.6 RT
36+076.0 RT (1.3 m WIDE, SLOPE= 0.7%)

BITUMINOUS CONCRETE SIDEWALK
21+369.9 LT (1.0 m WIDE, SLOPE=-3.0%)
21+380.9 RT (1.3 m WIDE, SLOPE= 7.0%)
21+389.3 LT (3.2 m WIDE, SLOPE= 1.0%)
36+087.9 RT (1.3 m WIDE, SLOPE= 3.3%)

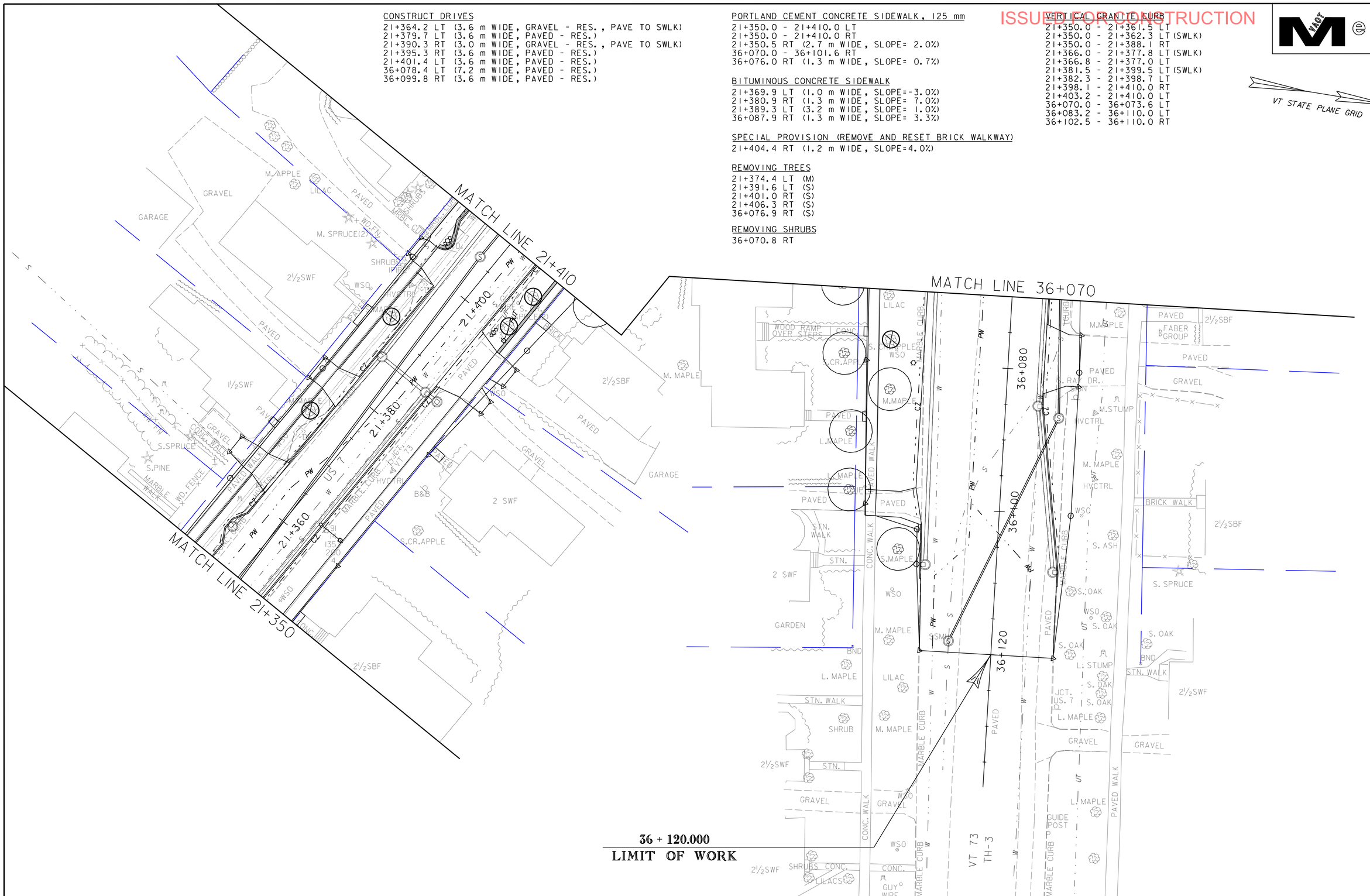
SPECIAL PROVISION (REMOVE AND RESET BRICK WALKWAY)
21+404.4 RT (1.2 m WIDE, SLOPE=4.0%)

REMOVING TREES
21+374.4 LT (M)
21+391.6 LT (S)
21+401.0 RT (S)
21+406.3 RT (S)
36+076.9 RT (S)

REMOVING SHRUBS
36+070.8 RT

VERTICAL GRANITE CURB
21+350.0 - 21+361.5 LT
21+350.0 - 21+362.3 LT (SWLK)
21+350.0 - 21+388.1 RT
21+366.0 - 21+377.8 LT (SWLK)
21+366.8 - 21+377.0 LT
21+381.5 - 21+399.5 LT (SWLK)
21+382.3 - 21+398.7 LT
21+398.1 - 21+410.0 RT
21+403.2 - 21+410.0 LT
36+070.0 - 36+073.6 LT
36+083.2 - 36+110.0 LT
36+102.5 - 36+110.0 RT

VT STATE PLANE GRID N



BRICK BANDING
(SEE ITEM DETAIL SHEETS FOR LIMITS OF BRICK PAVING)

0 10 20 30
SCALE IN METERS

ROADWAY LAYOUT 6

PROJECT NAME: BRANDON
PROJECT NUMBER: NH 019-3(496)

FILE NAME: zb008s6-gen.dgn
PROJECT LEADER: C. BEAN
DESIGNED BY: P. SHEDD
PLOT DATE: 2/23/2017
DRAWN BY: N. LEMAY
CHECKED BY: D. MUNRO
SHEET 113 OF 601

CLD 02-0448 MODEL:6

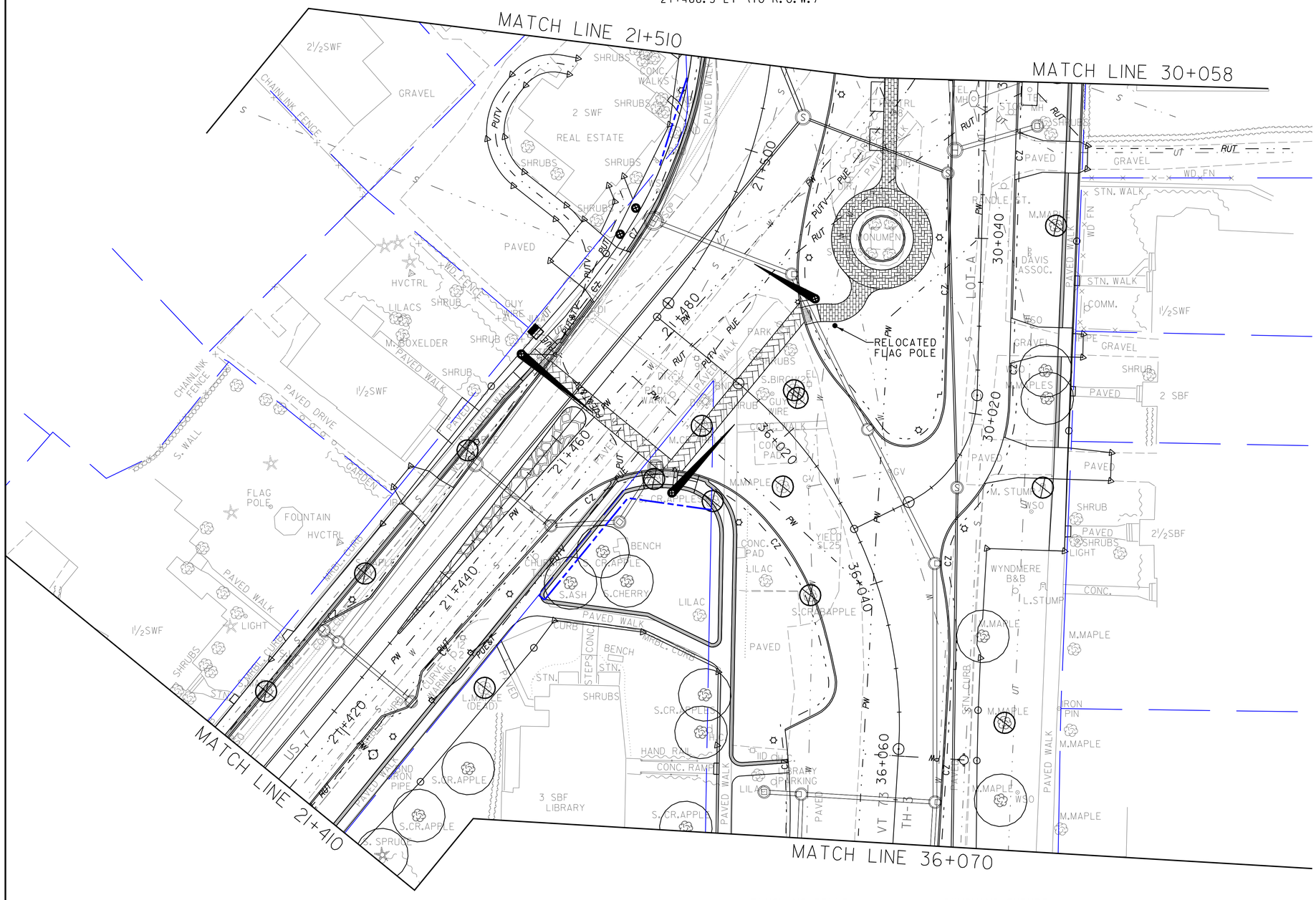
ISSUED FOR CONSTRUCTION

VAOT Metric

VT STATE PLANE GRID

CONSTRUCT DRIVES
21+445.6 LT (4.8 m WIDE, PAVED - RES.)
21+478.3 LT (6.0 m WIDE, PAVED - COMM.)
30+016.1 RT (3.6 m WIDE, PAVED - RES.)
30+028.4 RT (3.3 m WIDE, GRAVEL - RES., PAVE TO SWLK)
30+049.5 RT (3.6 m WIDE, GRAVEL - RES., PAVE TO SWLK)

REMOVAL OF EXISTING FENCE
21+466.3 LT (TO R.O.W.)



PORTLAND CEMENT CONCRETE SIDEWALK, 125 mm
21+410.0 - 21+473.6 LT
21+410.0 RT - 36+070.0 RT
21+443.3 RT - 36+044.1 RT (LIBRARY)
21+483.4 - 21+510.0 LT
21+502.3 LT (0.7 m WIDE, SLOPE=5.0%)
30+012.9 - 30+058.0 RT
30+035.5 RT (1.1 m WIDE, SLOPE=2.6%)
36+012.7 LT (RAMP)
36+062.0 - 36+062.7 RT (CONNECTOR)
36+062.7 RT (1.2 m WIDE, SLOPE=0.8%)

PORTLAND CEMENT CONCRETE SIDEWALK, 200 mm
21+473.6 - 21+483.4 LT

BITUMINOUS CONCRETE SIDEWALK
21+423.4 LT (1.4 m WIDE, SLOPE=3.0%)
21+437.9 RT (0.7 m WIDE, SLOPE=0.5%)
21+454.5 LT (4.8 m WIDE, SLOPE=-1.0%)
30+014.3 RT (1.2 m WIDE, SLOPE=5.0%)
30+022.9 RT (1.1 m WIDE, SLOPE=1.0%)

CONSTRUCT SIDEWALK RAMP W/ DETECTABLE WARNING SURFACE (YELLOW)
21+465.6 LT (TYPE 2)
36+012.2 RT (TYPE 6)
36+012.7 LT (TYPE 1)

SPECIAL PROVISION (REMOVE AND RESET STONE WALKWAY)
21+413.9 LT (1.0 m WIDE, SLOPE=3.5%)

VERTICAL GRANITE CURB
21+410.0 - 21+443.0 LT
21+410.0 - 36+057.4 RT
21+426.6 - 21+443.2 LT (SWLK)
21+448.1 - 21+462.0 LT (SWLK)
21+448.3 - 21+474.9 LT
21+482.1 - 21+510.0 LT
30+014.0 RT - 36+070.0 LT
30+018.4 - 30+025.9 RT
30+031.0 - 30+046.8 RT
30+052.2 - 30+058.0 RT
30+058.0 LT - 21+510.0 RT

REMOVING AND RESETTING CURB
21+443.9 RT - 36+041.9 RT (LIBRARY)
30+037.0 - 30+042.3 LT (MONUMENT, MRBL. EDGING)

SPECIAL PROVISION (IMPRINTED/COLORIZED SURFACE)
21+431.5 -21+464.5 C/L
21+465.6 LT/RT
36+012.5 LT/RT

REMOVING TREES
21+416.8 LT (S)
21+432.9 RT (L)
21+434.4 LT (S)
21+452.6 LT (S)
21+463.6 RT (S)
30+015.9 RT (M) (STUMP)
30+041.7 RT (M)
36+011.8 RT (M)
36+017.0 LT (S)
36+017.9 LT (S)
36+020.1 RT (S)
36+024.6 RT (M)
36+038.7 RT (S)
36+056.2 LT (M)

REMOVING SHRUBS
21+494.6 RT
21+495.3 RT
21+497.2 RT
21+497.7 RT
21+499.2 LT
30+052.1 RT
30+053.4 RT
36+011.3 LT
36+013.9 LT
36+014.8 LT
36+034.4 RT
36+035.1 RT
36+063.1 RT

BRICK BANDING
BRICK SIDEWALK
STAMPED CROSSWALKS
STAMPED ISLANDS
(SEE ITEM DETAIL SHEETS FOR LIMITS OF BRICK PAVING)

0 10 20 30
SCALE IN METERS

ROADWAY LAYOUT 7

PROJECT NAME: BRANDON
PROJECT NUMBER: NH 019-3(496)

FILE NAME: zb008s6-gen.dgn
PROJECT LEADER: C. BEAN
DESIGNED BY: P. SHEDD
PLOT DATE: 2/23/2017
DRAWN BY: N. LEMAY
CHECKED BY: D. MUNRO
SHEET 114 OF 601

CLD 02-0448 MODEL: 7

ISSUED FOR CONSTRUCTION

VT STATE PLANE GRID N

VAOT Metric

SPECIAL PROVISION (REMOVE USGS BENCHMARK)
(RETURN DISK TO VTRANS)
21+600.3 RT

SPECIAL PROVISION (RECONSTRUCT FOUNTAIN) (SEE MISC. DETAILS)
21+574.3 RT (FOUNTAIN #1)
30+114.3 LT (FOUNTAIN #3)

SPECIAL PROVISION
(IMPRINTED/COLORIZED SURFACE)
21+517.2 RT-21+533.3 LT
21+549.1 - 21+553.6 LT
21+574.5 LT/RT
21+595.7 C/L-21+613.2 RT
30+105.3 - 30+109.1 RT
34+010.8 LT/RT
35+011.5 LT/RT
SEE LOT-A RAISED CROSSWALK
DETAIL FOR ADDITIONAL LOCATIONS

SPECIAL PROVISION (FIBER
REINFORCED PORTLAND CEMENT
CONCRETE SIDEWALK, 200 mm)
(RAMP/RAISED CROSSWALK)
30+065.8 LT/RT
30+116.9 LT - 30+120.4 RT

CONSTRUCT DRIVES
21+527.1 LT (7.0 m WIDE, PAVED - COMM.)
30+111.1 RT (4.0 m WIDE, PAVED - COMM.)
34+058.9 LT (3.6 m WIDE, PAVED - RES.)
34+068.4 RT (COLD PLANE/OVERLAY 50 mm, 3.6 m WIDE)
35+045.5 RT (9.8 m WIDE, PAVED - COMM.)
35+054.1 LT (4.0 m WIDE, PAVED - COMM.)
35+058.6 RT (COLD PLANE/OVERLAY 50 mm, 9.8 m WIDE)
35+074.3 LT (3.3 m WIDE, PAVED - RES.)

PORTLAND CEMENT CONCRETE SIDEWALK, 125 mm
21+510.0 - 21+521.8LT
21+513.5 LT (1.2 m WIDE, SLOPE=3.0%)
21+534.2LT - 34+063.0 LT
21+546.0 - 21+551.1 LT(RAMP)
21+570.6 - 21+578.1 RT(RAMP)
30+058.0 - 30+109.0 RT
30+065.7 RT (1.6 m WIDE, SLOPE=2.0%)
30+065.8 LT (RAMP)
30+065.8 RT (CONNECTOR)
30+089.4 RT (2.1 m WIDE, SLOPE=1.0%)
30+116.9 LT (RAMP)
30+117.1 - 30+149.0 RT
34+010.8 LT (INCL. RAMP)
34+024.3 RT - 35+025.0 LT(CONNECTOR)
34+027.8 RT - 34+031.9 RT(INCL. RAMP)
34+066.4 RT - 35+050.6 LT
35+038.2 LT (2.9 m WIDE, SLOPE=-4.0%)
35+039.4 RT - 21+615.0 LT
35+054.3 RT (MATCH EXIST.)
35+057.6 - 35+081.0 LT
35+063.9 - 35+089.1 RT
35+070.5 LT (1.7 m WIDE, SLOPE=-2.0%)

CONSTRUCT CONCRETE STEPS
34+034.5 - 34+055.9 RT(21.5 m WIDE, 2 RISERS)

SPECIAL PROVISION (METAL HAND RAILING)
34+034.6 RT
34+055.8 RT

PORTLAND CEMENT CONCRETE SIDEWALK, 200 mm
21+521.8 - 21+534.2 LT
35+039.4 - 35+063.9 RT
35+050.6 - 35+057.6 LT

CONSTRUCT SIDEWALK RAMP W/
DETECTABLE WARNING SURFACE (YELLOW)
21+574.5 RT (TYPE 6)
21+574.5 LT (TYPE 5)
30+065.8 LT (TYPE 1)
30+065.8 RT (TYPE 1)
30+101.2 RT (TYPE 6)
30+116.9 LT (TYPE 5)
30+120.4 RT (TYPE 5)
34+010.8 RT (TYPE 5)
34+010.8 LT (TYPE 1)
34+031.9 RT (TYPE 1)
35+011.5 LT (TYPE 5)
35+011.7 RT (TYPE 6)

VERTICAL GRANITE CURB
21+510.0 - 21+523.4 LT
21+510.0 - 21+615.0 RT
21+532.9 - 34+056.1 LT
21+545.7 - 21+549.9 LT(BACK CURB)
30+058.0 - 30+062.7 LT
30+058.0 - 30+109.1 RT
30+062.7 - 30+063.3 LT (FLUSH, NO REVEAL)
30+063.3 LT/RT (CROSSWALK, FLUSH EDGING)
30+063.3 - 30+069.7 LT
30+064.5 LT/RT (CROSSWALK, FLUSH EDGING)
30+067.0 - 30+070.0 RT(SWLK EDGING)
30+067.1 LT/RT (CROSSWALK, FLUSH EDGING)
30+068.3 LT/RT (CROSSWALK, FLUSH EDGING)
30+095.1 - 30+104.1 RT (BACK CURB 125 REVEAL)
30+109.1 RT(DRIVE, FLUSH EDGING)
30+114.5 LT-30+117.9 RT (CROSSWALK, FLUSH EDGING)
30+114.5 - 30+149.0 LT
30+115.4 LT-30+119.0 RT (CROSSWALK, FLUSH EDGING)
30+116.3 - 30+120.9 RT(DRIVE, FLUSH EDGING)
30+116.3 - 30+149.0 RT
30+117.1 - 30+118.1 RT(SWLK EDGING)
30+118.3 LT-30+121.9 RT (CROSSWALK, FLUSH EDGING)
30+119.2 - 30+120.0 LT(SWLK EDGING)
30+119.4 LT-30+123.2 RT (CROSSWALK, FLUSH EDGING)
34+061.6 - 34+073.0 LT
34+065.6 RT - 35+051.5 LT
35+038.1 RT - 21+615.0 LT(PARKING LOT)
35+039.8 RT - 21+615.0 LT
35+049.9 - 35+052.5 RT (DRIVE)
35+056.7 - 35+072.4 LT (75 REVEAL)
35+076.3 - 35+081.0 LT (75 REVEAL)

GRANITE SLOPE EDGING
30+069.7 - 30+114.5 LT (100 mm REVEAL)
35+038.1 - 35+040.9 RT (ISLAND)

REMOVING AND RESETTING CURB
21+567.6 - 21+583.8 RT (FOUNTAIN MRBL. EDGING)
34+057.1 LT (DRIVE)
34+061.6 LT (DRIVE)
35+051.0 - 35+053.6 RT (DRIVE)
35+062.3 - 35+062.5 RT (DRIVE)
35+063.4 - 35+089.1 RT

REMOVING TREES
REMOVING STUMPS
21+527.9 RT (S)
21+556.8 RT (M)
21+580.7 RT (L)
21+583.7 RT (M)
21+591.1 RT (S)
21+598.4 RT (S)
30+059.0 RT (S)
30+089.6 LT (S)
30+103.3 LT (S)
30+121.6 RT (S)
30+145.9 RT (S) (STUMP)
35+087.6 RT (S)

REMOVING SHRUBS
21+511.3 LT
21+515.1 LT
21+567.0 RT
30+066.8 - 30+069.7 RT
(HEDGEROW)

SPECIAL PROVISION
(REMOVE BENCH)
(RETURN TO OWNER)
21+561.0 RT
21+580.5 RT
21+590.1 RT (PICNIC TABLE)
21+603.0 RT

SPECIAL PROVISION (REMOVE AND RESET USPS MAILBOX)
30+105.3 RT (RESET AT 30+106.6 RT 15.35 m)
34+064.8 RT (RESET AT 34+029.0 RT 10.00 m)

SPECIAL PROVISION (REMOVE AND RESET FLAG POLE)
21+548.0 RT (FLAG POLE, RELOCATE TO 36+015.5 LT)

SPECIAL PROVISION (RELOCATE GAZEBO)
(SEE MISC. DETAILS)
21+541.1 RT (RELOCATE TO 30+081.0 LT 10.0 m)

SPECIAL PROVISION (REMOVE AND RESET MARBLE SLAB)
30+087.2 - 30+091.7 RT (MRBL. ISLAND, TWO SLABS)
(RELOCATE BEHIND BACK CURB, 30+095.1-30+099.6 RT)

SEE PLAN 8C

MATCH LINE 21+615

MATCH LINE 30+149

35+066.000
LIMIT OF WORK

COLD PLANE/OVERLAY 50 mm
PAVED 50 mm BCP
450 mm SUBBASE

30+118.66
SEE LOT-A RAISED CROSSWALK DETAIL ON MISC. DETAIL SHEET

30+065.79
SEE LOT-A RAISED CROSSWALK DETAIL ON MISC. DETAIL SHEET

SEE PLAN 8B

MATCH LINE 21+510

MATCH LINE 30+058

BRICK BANDING
BRICK SIDEWALK
GRANITE SETTS
(SEE ITEM DETAIL SHEETS FOR LIMITS OF BRICK PAVING AND GRANITE SETTS)

STAMPED CROSSWALKS
STAMPED ISLANDS
SPECIAL SIDEWALK

0 10 20 30
SCALE IN METERS

ROADWAY LAYOUT 8

PROJECT NAME: BRANDON
PROJECT NUMBER: NH 019-3(496)

FILE NAME: zb008s6-gen.dgn
PROJECT LEADER: C. BEAN
DESIGNED BY: P. SHEDD
PLOT DATE: 2/23/2017
DRAWN BY: N. LEMAY
CHECKED BY: D. MUNRO
SHEET 115 OF 601

CLD 02-0448 MODEL: 8

ISSUED FOR CONSTRUCTION

VAOT Metric

CONSTRUCT DRIVES
37+024.0 RT (3.6 m WIDE, PAVED - RES.)
37+035.0 LT (3.9 m WIDE, PAVED - RES.)
37+052.0 LT (3.6 m WIDE, PAVED - RES.)

VT STATE PLANE GRID N

37 + 070.000
LIMIT OF WORK

34 + 210.000
LIMIT OF WORK

STA 37+023.1 RT - 37+036.8 RT
STORMWATER TREATMENT STRUCTURE #4
DISCHARGE PERMIT #4164 - INDS

37+080
37+060 ROSSITER ST
37+040
37+020
34+240
34+220
34+200
34+180
34+160
34+140
TH-42 34+120
34+100
CARVER ST

APPROX. EXIST. ROW

SEE PLAN 8

0 10 20 30
SCALE IN METERS

CLD 02-0448 MODEL: 8B

ROADWAY LAYOUT 8B

PROJECT NAME: BRANDON
PROJECT NUMBER: NH 019-3(496)

FILE NAME: zb008s6-gen.dgn
PROJECT LEADER: C. BEAN
DESIGNED BY: P. SHEDD

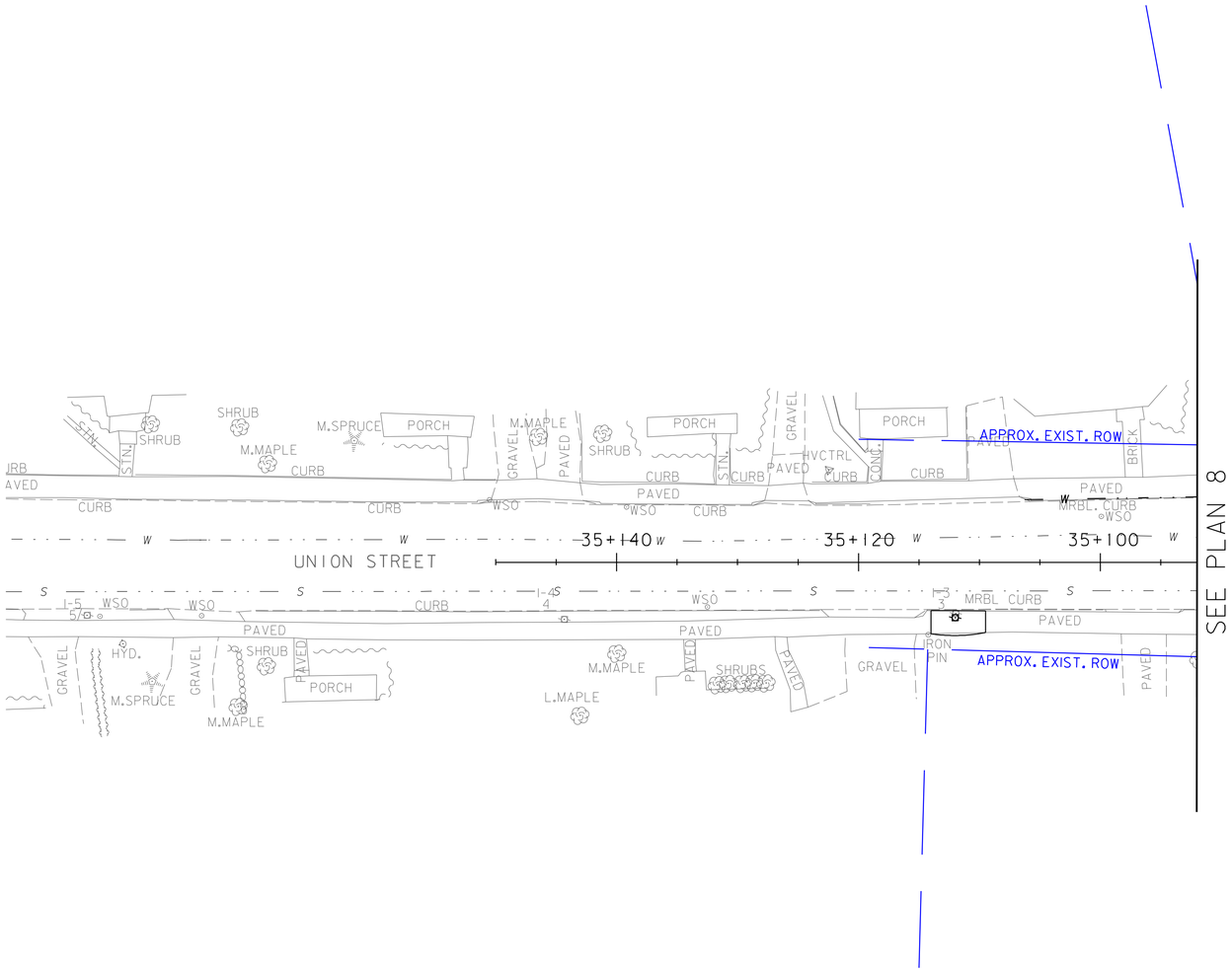
PLOT DATE: 2/23/2017
DRAWN BY: N. LEMAY
CHECKED BY: D. MUNRO
SHEET 116 OF 601

ISSUED FOR CONSTRUCTION

VAOT Metric

BITUMINOUS CONCRETE SIDEWALK
35+109.5 - 35+114.0 LT
(WIDEN BEHIND UTILITY POLE,
1.2m MIN. ACCESSIBLE WIDTH)

VT STATE PLANE GRID N



0 10 20 30
SCALE IN METERS

ROADWAY LAYOUT 8C

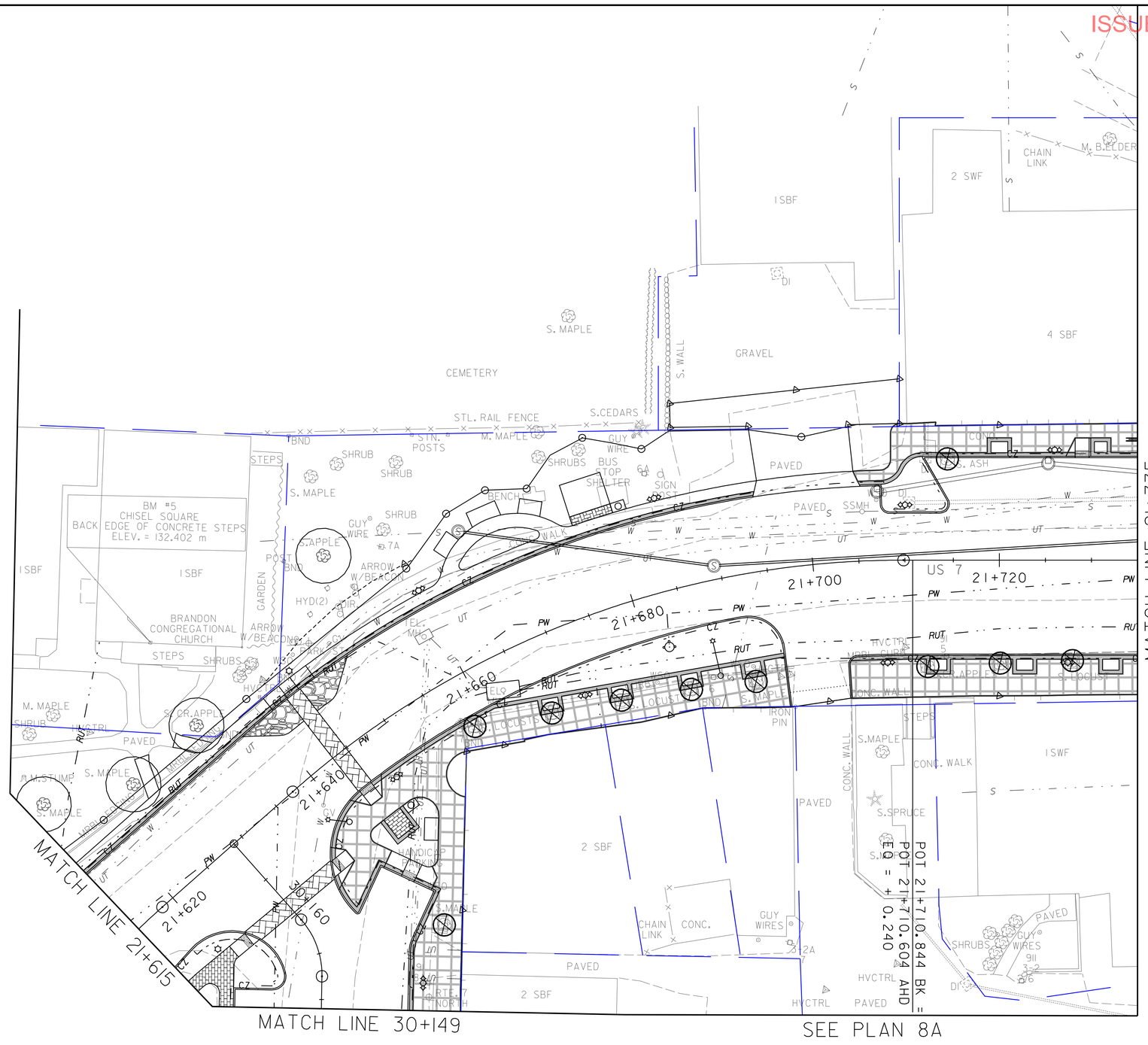
PROJECT NAME: BRANDON
PROJECT NUMBER: NH 019-3(496)

FILE NAME: zb008s6-gen.dgn
PROJECT LEADER: C. BEAN
DESIGNED BY: P. SHEDD
PLOT DATE: 2/23/2017
DRAWN BY: N. LEMAY
CHECKED BY: D. MUNRO
SHEET 117 OF 601

CLD 02-0448 MODEL: 8C

ISSUED FOR CONSTRUCTION

VAOT Metric



CONSTRUCT DRIVES
21+699.4 RT (6.5 m WIDE, PAVED - COMM.)
21+700.0 LT (10.5 m WIDE, PAVED - COMM.)

PORTLAND CEMENT CONCRETE SIDEWALK, 125 mm
21+615.0 - 21+693.7 LT
21+663.0 - 21+674.8 LT (BEHIND ISLAND)
21+703.2 - 21+735.0 RT
21+706.2 - 21+735.0 LT
21+733.8 - 21+735.0 LT (RAMP)
30+149.0 - 21+695.5 RT
30+156.5 RT - 21+650.0 RT (AROUND ISLAND)
30+161.2 LT (RAMP)

PORTLAND CEMENT CONCRETE SIDEWALK, 200 mm
21+693.7 - 21+706.2 LT

BITUMINOUS CONCRETE SIDEWALK
21+625.9 LT (1.4 m WIDE, SLOPE=2.0%)
21+633.5 LT (1.4 m WIDE, SLOPE=-4.0%)

SPECIAL PROVISION (FIBER REINFORCED PORTLAND CEMENT CONCRETE SIDEWALK, 200 mm) (BUS SHELTER PAD)
21+676.5 - 21+680.6 LT 10.8 m (4.6 x 3.6 m)

CONSTRUCT SIDEWALK RAMP W/ DETECTABLE WARNING SURFACE (YELLOW)
21+644.0 RT (TYPE 5)
21+644.0 LT (TYPE 6)
21+729.0 LT (TYPE 5)
30+157.3 RT (TYPE 6)
30+161.0 RT (TYPE 5)
30+161.4 LT (TYPE 1)

VERTICAL GRANITE CURB
21+615.0 RT - 30+149 LT
21+615.0 - 21+694.6 LT
21+703.0 - 21+735.0 RT
21+705.4 - 21+735.0 LT
21+729.7 LT (RAMP)
21+734.0 - 21+735.0 LT (BEHIND RAMP)
30+149.0 - 21+695.5 RT

DEMOLITION AND DISPOSAL OF BUILDING
21+681.0 LT (REMOVE BUS STOP SHELTER)

SPECIAL PROVISION (IMPRINTED/COLORIZED SURFACE)
21+637.3 - 21+643.1 LT
21+644.0 LT/RT
21+644.8 - 21+650.6 LT
30+161.0 RT - 30+161.4 LT

SPECIAL PROVISION (METAL HAND RAILING)
21+733.7 - 21+735.0 LT (ALONG RAMP)

SPECIAL PROVISION (SQUARE STEEL FENCE)
21+733.7 - 21+735.0 LT (ALONG SWLK)

REMOVING TREES
21+658.0 RT (S)
21+666.7 RT (S)
21+674.9 RT (S)
21+683.3 RT (S)
21+691.3 RT (S)
21+712.2 RT (S)
21+714.3 LT (S)
21+720.1 RT (S)
21+727.9 RT (S)
30+154.9 RT (S)

REMOVING SHRUBS
21+679.3 LT

SPECIAL PROVISION (REMOVE BENCH) (RETURN TO OWNER)
21+674.0 LT

BRICK BANDING
BRICK SIDEWALK
STAMPED CROSSWALKS
STAMPED ISLANDS
SPECIAL SIDEWALK
(SEE ITEM DETAIL SHEETS FOR LIMITS OF BRICK PAVING)

0 10 20 30
SCALE IN METERS

ROADWAY LAYOUT 9

PROJECT NAME: BRANDON
PROJECT NUMBER: NH 019-3(496)

FILE NAME: zb008s6-gen.dgn
PROJECT LEADER: C. BEAN
DESIGNED BY: P. SHEDD
PLOT DATE: 2/23/2017
DRAWN BY: N. LEMAY
CHECKED BY: D. MUNRO
SHEET 118 OF 601

CLD 02-0448 MODEL: 9

ISSUED FOR CONSTRUCTION

VT STATE PLANE GRID N

VAOT Metric

CONSTRUCT DRIVES
21+752.4 LT (6.0 m WIDE, PAVED - COMM.)
21+784.0 RT (3.3 m WIDE, PAVED - COMM.)
21+843.9 RT (6.0 m WIDE, PAVED - RES.)
9+037.4 RT (8.0 m WIDE, PAVED - COMM.)
9+043.0 LT (10.5 m WIDE, PAVED - COMM.)
9+052.1 RT (8.0 m WIDE, PAVED - COMM.)

RELOCATE MAIL BOX, SINGLE SUPPORT
21+808.5 RT (DROP BOX)

PORTLAND CEMENT CONCRETE SIDEWALK, 125 mm
21+735.0 - 21+745.5 LT
21+735.0 - 21+747.4 LT (RAMP)
21+735.0 - 21+782.4 RT
21+757.2 - 21+800.0 LT
21+762.3 LT (TO RAMP)
21+762.3 RT (TO RAMP)
21+767.3 - 21+782.4 RT (AROUND ISLAND)
21+782.5 - 21+815.8 RT
21+785.5 - 21+796.1 RT (AROUND ISLAND)
21+835.0 - 21+870.0 LT
21+843.8 RT (1.5 m WIDE, SLOPE=1.3%)
21+844.3 LT (3.5 m WIDE, SLOPE=-1.0%)
21+854.2 LT (2.4 m WIDE, SLOPE=0.0%)
9+012.3 - 9+031.8 RT
9+029.3 RT (0.9 m WIDE, SLOPE=2.0%)
9+037.7 LT - 21+869.2 RT
9+094.2 RT (1.4 m WIDE)

PORTLAND CEMENT CONCRETE SIDEWALK, 200 mm
21+747.4 - 21+757.2 LT
21+869.2 - 21+870.0 RT
9+031.8 - 9+061.0 RT

BITUMINOUS CONCRETE SIDEWALK
21+834.1 - 21+838.0 LT (TO FACE OF BLDG.)
21+846.2 - 21+853.0 LT (TO FACE OF BLDG./STAIRS)
21+847.8 RT (1.2 m WIDE, SLOPE=11.4%)
9+009.3 LT (1.2 m WIDE, SLOPE=6.2%)
9+021.9 - 9+029.2 LT (TO TOWN HALL STEPS)
9+077.0 - 9+097.3 RT (IF NECESSARY FOR NEW SEWER)

CONSTRUCT SIDEWALK RAMP W/ DETECTABLE WARNING SURFACE (YELLOW)
21+762.3 LT (TYPE 1) 21+802.1 RT (TYPE 5)
21+762.3 RT (TYPE 1) 21+835.8 LT (TYPE 6)
21+771.5 RT (TYPE 6) 9+009.9 LT (TYPE 6)

CONSTRUCT CONCRETE STEPS
21+854.2 LT (2.4 m WIDE, 3 RISERS)

SPECIAL PROVISION (METAL HAND RAILING)
21+735.0 - 21+745.7 LT (ALONG RAMPS)
21+853.1 LT
21+855.3 LT

SPECIAL PROVISION (SQUARE STEEL FENCE)
21+735.0 - 21+745.5 LT (ALONG SWLK/WALL)

VERTICAL GRANITE CURB
21+735.0 - 21+736.2 LT (BEHIND RAMP)
21+735.0 - 21+748.9 LT
21+735.0 - 21+782.5 RT
21+740.0 - 21+748.9 LT (BACK CURB)
21+745.5 - 21+745.9 LT (BEHIND SIDEWALK)
21+755.9 - 21+787.6 LT
21+780.6 - 21+782.5 RT (DRIVE, FLUSH EDGING)
21+782.8 - 21+785.5 RT (DRIVE, FLUSH EDGING)
21+785.5 - 21+812.4 RT
21+835.0 - 21+853.0 LT (BEHIND SWLK)
21+835.4 - 21+842.4 LT (450 x 115 STEP)
21+837.4 - 21+870.0 LT
21+842.4 LT (WALKWAY EDGING)
21+846.2 LT (WALKWAY EDGING)
21+847.1 - 21+870.0 RT
21+855.4 - 21+870.0 LT (BEHIND SWLK)
21+866.0 - 21+870.0 RT (DRIVE) (MATCH TO EXIST.)
9+008.0 - 9+022.2 LT
9+012.3 - 9+033.1 RT
9+022.2 - 9+028.2 LT (FLUSH, NO REVEAL)
9+028.2 - 9+037.7 LT
9+032.0 - 9+037.7 LT (BEHIND SWLK)
9+041.4 - 9+048.3 RT (BEHIND SWLK)
9+041.7 - 9+048.0 RT
9+056.3 - 9+061.0 RT

REMOVING AND RESETTING CURB
21+787.6 - 21+800.0 LT (INSTALLED UNDER BHF 019-3(58))
21+812.4 - 21+814.7 RT (INSTALLED UNDER BHF 019-3(58))
21+835.0 - 21+837.4 LT (INSTALLED UNDER BHF 019-3(58))
9+077.0 - 9+097.3 RT (IF NECESSARY FOR NEW SEWER)

REMOVING TREES
21+736.2 RT (S) 21+758.6 RT (S) 21+798.9 RT (S)
21+739.5 LT (S) 21+766.0 RT (S) 21+805.3 RT (S)
21+744.1 RT (S) 21+773.5 RT (S)
21+751.5 RT (S) 21+793.9 RT (S)

SPECIAL PROVISION (IMPRINTED/COLORIZED SURFACE)
21+762.3 LT/RT
21+824.5 RT - 21+835.9 LT
21+825.0 RT - 9+010.0 LT

CONSTRUCT CONCRETE RETAINING WALL STONE MASONRY FACING
21+735.0 - 21+745.6 LT
(SEE RETAINING WALL #3 DETAILS)

SPECIAL PROVISION (REMOVE PENSTOCK) (REMOVE TO LIMIT OF WORK/PLUG AND ABANDON ENDS)
21+762.3 RT - 21+770.5 LT (1050 mm; EXACT LOCATION UNKNOWN)

* PORTLAND CEMENT CONCRETE SIDEWALK AND CURB INSTALLED UNDER BHF 019-3(58)

9+090.000 LIMIT OF WORK

SEE PLAN 8A

BRICK BANDING
BRICK SIDEWALK
(SEE ITEM DETAIL SHEETS FOR LIMITS OF BRICK PAVING)

STAMPED CROSSWALKS
SPECIAL SIDEWALK

EXCAVATION OF SURFACES AND PAVEMENTS (PLACE 100mm TOPSOIL, SEED, FERTILIZER, LIMESTONE AND HAY MULCH)
9+016.3 - 9+021.9 LT
9+029.2 - 9+035.9 LT

0 10 20 30
SCALE IN METERS

ROADWAY LAYOUT 10

PROJECT NAME: BRANDON
PROJECT NUMBER: NH 019-3(496)

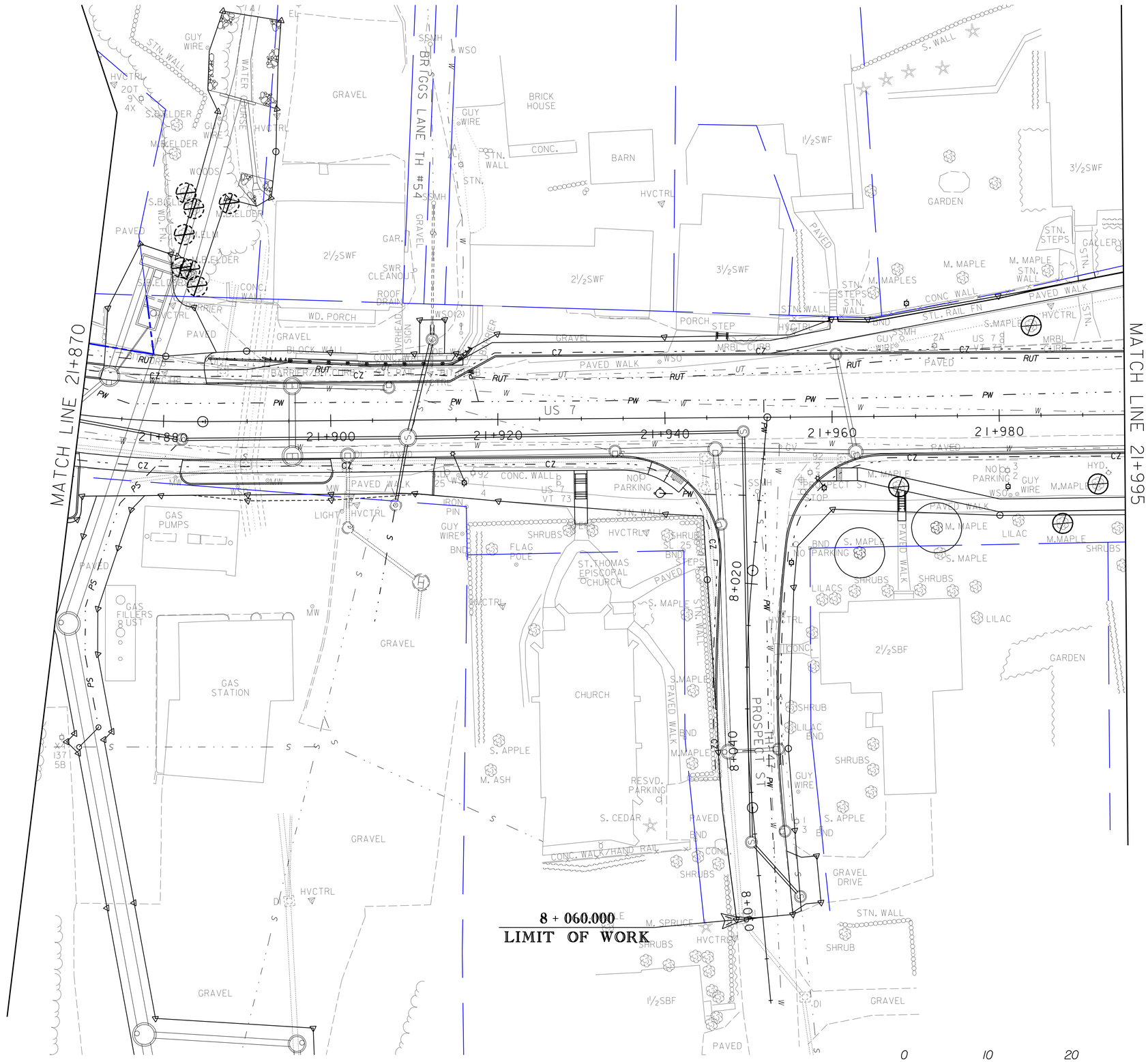
FILE NAME: zb008s6-gen.dgn
PROJECT LEADER: C. BEAN
DESIGNED BY: P. SHEDD
PLOT DATE: 2/23/2017
DRAWN BY: N. LEMAY
CHECKED BY: D. MUNRO
SHEET 119 OF 601

CLD 02-0448 MODEL: 10

STA 21+876.1 LT - 21+884.4 LT
STORMWATER TREATMENT STRUCTURE #2
DISCHARGE PERMIT #4164 - INDS

ISSUED FOR CONSTRUCT

VAOT Metric



CONSTRUCT DRIVES
21+876.4 RT (12.0 m WIDE, PAVED - COMM.)
21+878.6 LT (12.0 m WIDE, PAVED - COMM.)
21+906.2 RT (12.0 m WIDE, PAVED - COMM.)
8+056.1 LT (5.6 m WIDE, GRAVEL - RES.)

PORTLAND CEMENT CONCRETE SIDEWALK, 125 mm
21+870.0 - 21+870.7 LT
21+883.6 - 21+898.7 RT
21+886.4 - 21+995.0 LT
21+913.7 - 21+942.7 RT
21+929.8 RT (1.5 m WIDE, SLOPE=2.0%)
21+946.8 LT (1.4 m WIDE, SLOPE=6.2%)
21+958.1 - 21+995.0 RT
21+960.3 LT (0.9 m WIDE, TO BACK OF TOP STEP)

PORTLAND CEMENT CONCRETE SIDEWALK, 200 mm
21+870.0 - 21+883.6 RT
21+870.7 - 21+886.4 LT
21+898.7 - 21+913.7 RT

BITUMINOUS CONCRETE SIDEWALK
21+968.3 RT (1.0 m WIDE, SLOPE=0.0%)

SPECIAL PROVISION
(REMOVE AND RESET STONE WALKWAY)
21+990.5 LT (1.9 m WIDE, SLOPE=-2.8%)

CONSTRUCT SIDEWALK RAMP W/
DETECTABLE WARNING SURFACE (YELLOW)
8+006.1 LT (TYPE 6)
8+007.9 RT (TYPE 1)

CONSTRUCT CONCRETE STEPS
21+929.8 RT (1.5 m WIDE, 6 RISERS, 0.75 m INTERMEDIATE LANDING)
21+946.9 LT (1.4 m WIDE, 2 RISERS)
21+968.3 RT (1.0 m WIDE, 6 RISERS)

SPECIAL PROVISION (METAL HAND RAILING)
21+929.2 RT 21+959.7 LT (CONNECT TO EXIST. HAND RAIL)
21+930.5 RT 21+960.8 LT (CONNECT TO EXIST. HAND RAIL)
21+946.2 LT 21+967.9 RT
21+947.6 LT 21+968.6 RT

VERTICAL GRANITE CURB
21+870.0 - 21+870.4 RT
21+870.0 - 21+871.0 RT (DRIVE)
21+870.0 - 21+871.9 LT
21+870.0 - 21+872.2 LT (BEHIND SWLK)
21+882.1 - 21+900.2 RT (BEHIND SWLK/ISLAND)
21+882.4 - 21+900.0 RT
21+885.2 - 21+995.0 LT
21+912.1 - 21+912.2 RT (DRIVE) (MATCH TO EXIST.)
21+912.5 - 8+035.0 RT
8+041.9 LT - 21+995.0 RT

CONSTRUCT CONCRETE RETAINING WALL
(SEE RETAINING WALL #2 DETAILS)
21+895.0 - 21+915.9 LT

BRIDGE RAILING, 3 RAIL BOX BEAM (COATED BLACK)
21+894.7 - 21+917.0 LT (SEE RAIL LAYOUT DETAILS)

GUARDRAIL APPROACH SECTION, 3 RAIL BOX BEAM (COATED BLACK)
21+887.7 - 21+894.7 LT (SEE RAIL LAYOUT DETAILS)

BOX BEAM GUARDRAIL (COATED BLACK)
21+885.5 - 21+887.7 LT
(TYPE I END ASSEMBLY; SEE RAIL LAYOUT DETAILS)

SPECIAL PROVISION (REMOVAL OF EXISTING HAND RAILING)
21+953.7 - 21+959.6 LT (BEHIND SWLK; DO NOT DISTURB WALL)
21+960.9 - 21+987.6 LT (BEHIND SWLK; DO NOT DISTURB WALL)

SPECIAL PROVISION (SQUARE STEEL FENCE)
21+955.0 - 21+959.7 LT (0.3 m BEHIND WALL; DO NOT DISTURB WALL)
21+960.8 - 21+987.8 LT (0.3 m BEHIND WALL; DO NOT DISTURB WALL)

REMOVING AND RESETTING FENCE
21+880.5 - 21+880.8 LT

REMOVING TREES
21+967.9 RT (M)
21+983.9 LT (S)
21+987.5 RT (M)
21+991.7 RT (M)

REMOVING SHRUBS
8+034.8 LT
8+037.4 LT

VT STATE PLANE GRID
N

0 10 20 30
SCALE IN METERS

ROADWAY LAYOUT II

PROJECT NAME: BRANDON
PROJECT NUMBER: NH 019-3(496)

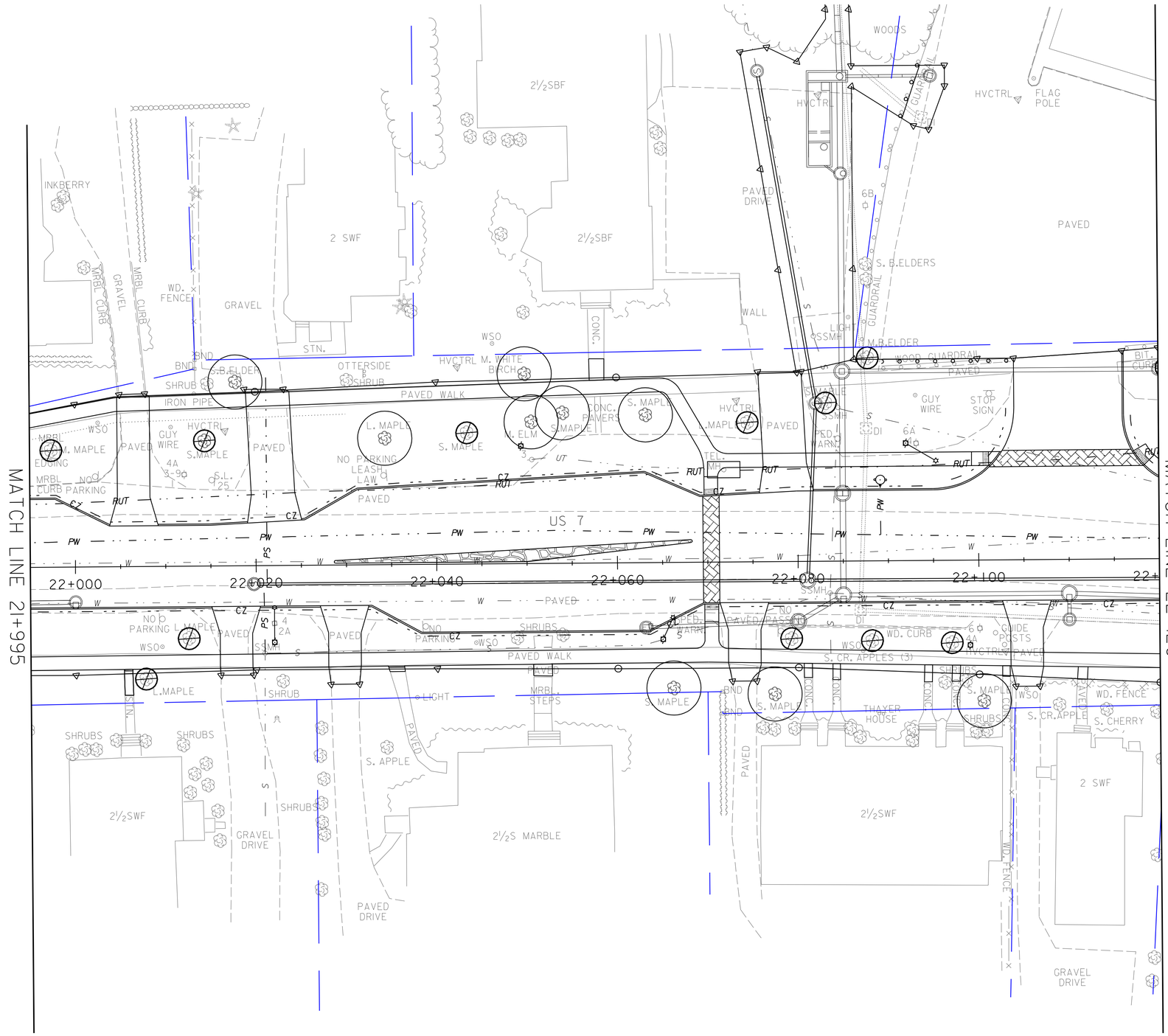
FILE NAME: zb008s6-gen.dgn
PROJECT LEADER: C. BEAN
DESIGNED BY: P. SHEDD
PLOT DATE: 2/23/2017
DRAWN BY: N. LEMAY
CHECKED BY: D. MUNRO
SHEET 120 OF 601

CLD 02-0448 MODEL: II

ISSUED FOR CONSTRUCTION

VAOT Metric

STA 22+081.3 LT - 22+085.9 LT
STORMWATER TREATMENT STRUCTURE #3
DISCHARGE PERMIT #4164 - INDS



STAMPED CROSSWALKS
STAMPED ISLANDS

0 10 20 30
SCALE IN METERS

REMOVING TREES
REMOVING STUMPS
21+997.4 LT (M)
22+007.7 RT (L)
22+012.5 RT (L)
22+014.4 LT (S)
22+043.4 LT (S)
22+074.5 LT (L)
22+079.2 RT (S)
22+088.2 RT (S)
22+097.0 RT (S)
22+083.1 LT (S)
22+087.8 LT (M)

REMOVING SHRUBS
22+048.9 RT
22+053.9 RT

CONSTRUCT DRIVES
22+006.5 LT (3.6 m WIDE, PAVED - RES.)
22+017.8 RT (3.6 m WIDE, PAVED - RES.)
22+022.1 LT (4.8 m WIDE, PAVED - RES.)
22+029.8 RT (3.6 m WIDE, PAVED - RES.)
22+074.0 RT (3.6 m WIDE, PAVED - RES.)
22+078.8 LT (4.8 m WIDE, PAVED - RES.)
22+105.3 RT (3.6 m WIDE, GRAVEL - RES., PAVE TO SWLK)
22+110.0 LT (12.0 m WIDE, PAVED - COMM.)

PORTLAND CEMENT CONCRETE SIDEWALK, 125 mm
21+995.0 - 22+102.6 LT
21+995.0 - 22+120.0 RT
22+051.7 RT (2.1 m WIDE, SLOPE=3.1%)
22+057.8 LT (1.7 m WIDE, SLOPE=-4.0%)
22+070.4 LT (CONNECTOR)
22+070.4 RT (CONNECTOR)
22+081.0 RT (0.9 m WIDE, SLOPE=7.0%)
22+084.2 RT (0.8 m WIDE, SLOPE=6.5%)
22+094.4 RT (0.9 m WIDE, SLOPE=5.0%)
22+097.4 RT (0.9 m WIDE, SLOPE=6.0%)
22+103.0 RT (0.9 m WIDE, SLOPE=1.5%)
22+117.6 - 22+120.0 LT

BITUMINOUS CONCRETE SIDEWALK
22+035.4 RT (1.7 m WIDE, SLOPE=4.4%)
22+111.5 RT (1.1 m WIDE, SLOPE=-1.6%)

SPECIAL PROVISION (REMOVE AND RESET STONE WALKWAY)
22+005.8 RT (0.9 m WIDE, SLOPE=8.0%)

CONSTRUCT SIDEWALK RAMP W/
DETECTABLE WARNING SURFACE (YELLOW)
22+070.4 LT (TYPE 1)
22+070.4 RT (TYPE 1)
22+101.4 LT (TYPE 1)
22+118.3 LT (TYPE 6)

VERTICAL GRANITE CURB
21+995.0 - 22+003.8 LT
21+995.0 - 22+015.1 RT
22+005.8 RT (STEP BEHIND SWLK, 150 REVEAL)
22+009.2 - 22+019.1 LT
22+020.5 - 22+027.1 RT
22+025.1 - 22+075.8 LT
22+032.5 - 22+071.3 RT
22+035.4 RT (STEP BEHIND SWLK, 100 REVEAL)
22+076.7 - 22+102.6 RT
22+081.8 - 22+102.6 LT
22+108.0 - 22+120.0 RT
22+116.0 - 22+120.0 LT (DRIVE)

REMOVAL OF EXISTING CURB (INCIDENTAL TO COMMON EXCAVATION)
22+075.8 - 22+098.5 RT (REMOVE WOOD CURB)

REMOVAL AND DISPOSAL OF GUARDRAIL
STEEL BEAM GUARDRAIL
22+091.9 - 22+093.9 LT

REMOVE AND RESET GUARDRAIL
22+089.4 - 22+103.4 LT (WOOD GUARDRAIL W/ POSTS)

REMOVAL AND DISPOSAL OF GUIDE POSTS
22+101.8 RT
22+102.8 RT

SPECIAL PROVISION
(IMPRINTED/COLORIZED SURFACE)
22+028.7 - 22+068.3 LT
22+070.4 LT/RT
22+101.2 - 22+118.3 LT

ROADWAY LAYOUT 12

PROJECT NAME: BRANDON
PROJECT NUMBER: NH 019-3(496)

FILE NAME: zb008s6-gen.dgn
PROJECT LEADER: C. BEAN
DESIGNED BY: P. SHEDD
PLOT DATE: 2/23/2017
DRAWN BY: N. LEMAY
CHECKED BY: D. MUNRO
SHEET 121 OF 601

CLD 02-0448 MODEL: 12

ISSUED FOR CONSTRUCTION

VAOT Metric

SPECIAL PROVISION
(IMPRINTED/COLORIZED SURFACE)
22+203.3 - 22+206.0 LT
22+207.2 RT - 22+208.3 LT
22+208.4 - 22+212.8 LT
22+208.4 - 22+221.1 LT
18+015.8 LT - 18+023.0 RT
18+017.4 - 18+019.6 RT
18+021.7 - 18+053.0 RT
19+009.7 LT - 19+012.6 RT

SPECIAL PROVISION (RECONSTRUCT FOUNTAIN)
(SEE MISC. DETAILS)
22+161.7 LT (FOUNTAIN #2)

SPECIAL PROVISION
(REMOVE BENCH)
(RETURN TO OWNER)
22+159.0 LT
22+167.5 LT
19+043.0 RT

REMOVING TREES
REMOVING STUMPS
22+120.9 LT (S)
22+127.6 LT (S)
22+145.8 LT (S)
22+160.9 LT (S)
22+200.9 LT (S)
22+210.6 LT (S)
22+222.5 LT (S)
18+018.1 RT (S)
19+041.2 RT (M)
19+045.3 RT (S)
19+061.6 LT (M) (STUMP)

REMOVING SHRUBS
18+028.414 LT

VT STATE PLANE GRID N

CONSTRUCT DRIVES
22+138.0 RT (4.8 m WIDE, GRAVEL - RES., PAVE TO SWLK)
22+164.2 RT (12.0 m WIDE, PAVED - COMM.)
22+188.7 RT (10.0 m WIDE, PAVED - COMM.)
22+215.0 RT (4.8 m WIDE, PAVED - RES.)
22+226.5 RT (12.0 m WIDE, PAVED - COMM.)
18+025.5 LT (6.0 m WIDE, PAVED - RES.)
18+026.2 LT (3.6 m WIDE, GRAVEL - RES.) (SPUR)
18+052.8 LT (4.8 m WIDE, GRAVEL - RES.)
19+032.5 LT (7.2 m WIDE, PAVED - COMM.)
19+077.9 RT (4.2 m WIDE, PAVED - RES.)
19+084.9 LT (8.0 m WIDE, PAVED - COMM.)

PORTLAND CEMENT CONCRETE SIDEWALK, 125 mm
22+120.0 - 19+028.1 LT
22+120.0 - 22+157.0 RT
22+173.0 - 22+181.7 RT
22+195.5 - 22+212.5 RT
22+215.5 LT (1.8 m WIDE, SLOPE=0.5%)
22+228.8 LT (1.0 m WIDE, SLOPE=0.5%)
22+232.7 - 22+235.0 RT
18+015.8 LT (RAMP)
18+022.1 LT (RAMP)
18+022.6 RT - 22+235.0 LT
18+022.6 - 18+065.0 RT
18+025.7 - 18+065.0 LT
19+012.6 RT (RAMP)
19+037.8 - 19+079.1 LT

PORTLAND CEMENT CONCRETE SIDEWALK, 200 mm
22+157.0 - 22+173.0 RT
22+171.3 - 22+183.4 RT (ISLAND)
22+181.7 - 22+195.5 RT
19+028.1 - 19+037.8 LT
19+079.1 - 19+085.0 LT

BITUMINOUS CONCRETE SIDEWALK
22+203.3 RT (1.0 m WIDE, SLOPE=3.0%)
22+212.5 - 22+232.7 RT (1.53 m WIDE)
18+057.5 RT (1.0 m WIDE, SLOPE=3.0%)

SPECIAL PROVISION (REMOVE AND RESET BRICK WALKWAY)
18+029.0 LT (1.2 m WIDE, SLOPE=0.0%)
18+039.8 LT (1.0 m WIDE, SLOPE=-5.0%)
18+045.4 LT (1.1 m WIDE, SLOPE=-5.0%)

CONSTRUCT SIDEWALK RAMP W/
DETECTABLE WARNING SURFACE (YELLOW)
22+207.2 RT (TYPE 6)
18+015.8 LT (TYPE 2)
18+022.1 LT (TYPE 1)
18+022.6 RT (TYPE 1)
18+029.0 LT (TYPE 6)
19+009.9 LT (TYPE 6)
19+012.6 RT (TYPE 1)

VERTICAL GRANITE CURB
22+120.0 - 19+029.0 LT
22+120.0 - 22+135.0 RT
22+141.1 - 22+158.5 RT
22+171.2 - 22+183.5 RT (BEHIND SWLK/ISLAND)
22+171.4 - 22+183.3 RT
22+194.2 - 22+212.2 RT
22+217.5 - 22+220.2 RT (ISLAND)
22+233.3 - 22+235.0 RT
18+025.2 - 18+025.9 LT (DRIVE)
18+026.4 - 18+028.7 LT (DRIVE)
18+028.7 - 18+050.1 LT
18+055.5 - 18+065.0 LT
18+065.0 RT - 22+235.0 LT
19+022.0 - 19+029.2 LT (ALONG PARKING LOT)
19+036.0 - 19+041.9 LT (ALONG PARKING LOT)
19+037.8 - 19+079.8 LT
19+072.4 - 19+076.0 RT (DRIVE)
19+072.4 RT - 18+022.9 LT
19+080.6 - 19+085.0 RT

GRANITE SLOPE EDGING
22+171.2- 22+183.5 RT (ISLAND)
22+232.7 - 22+235.0 RT (BEHIND SWLK/ISLAND)
18+022.9 - 18+025.2 LT (DRIVE)

REMOVAL AND DISPOSAL OF GUIDE POSTS
19+073.1 RT

SPECIAL PROVISION (RELOCATE MONUMENT)
22+218.3 LT (RELOCATE TO 22+240.5, 11.7 m LT)

REMOVE CONCRETE PAD (BY OTHERS)
22+180.0 - 22+184.3 RT

BRICK SIDEWALK
STAMPED CROSSWALKS
STAMPED ISLANDS
(SEE ITEM DETAIL SHEETS FOR LIMITS OF BRICK PAVING)

0 10 20 30
SCALE IN METERS

ROADWAY LAYOUT 13

PROJECT NAME: BRANDON
PROJECT NUMBER: NH 019-3(496)

FILE NAME: zb008s6-gen.dgn
PROJECT LEADER: C. BEAN
DESIGNED BY: P. SHEDD
PLOT DATE: 2/23/2017
DRAWN BY: N. LEMAY
CHECKED BY: D. MUNRO
SHEET 122 OF 601

CLD 02-0448 MODEL: 13

ISSUED FOR CONSTRUCTION

VAOT Metric

CONSTRUCT DRIVES
18+084.2 LT (7.2 m WIDE, PAVED - RES.)

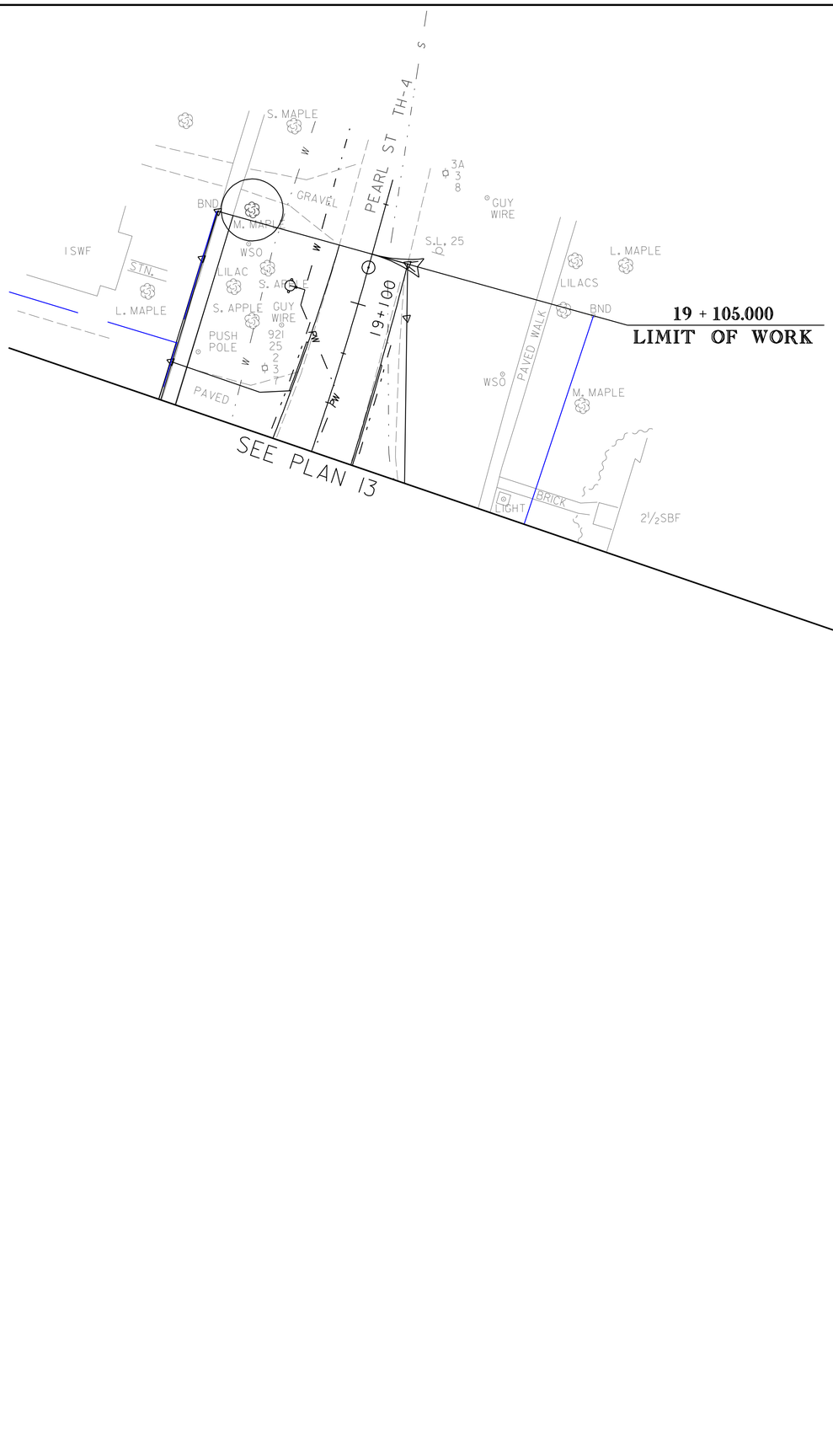
PORTLAND CEMENT CONCRETE SIDEWALK, 125 mm
18+065.0 - 18+088.7 LT
18+065.0 - 18+103.0 RT
18+079.7 RT (1.6 m WIDE, SLOPE=0.0%)
19+090.6 - 19+105.0 LT

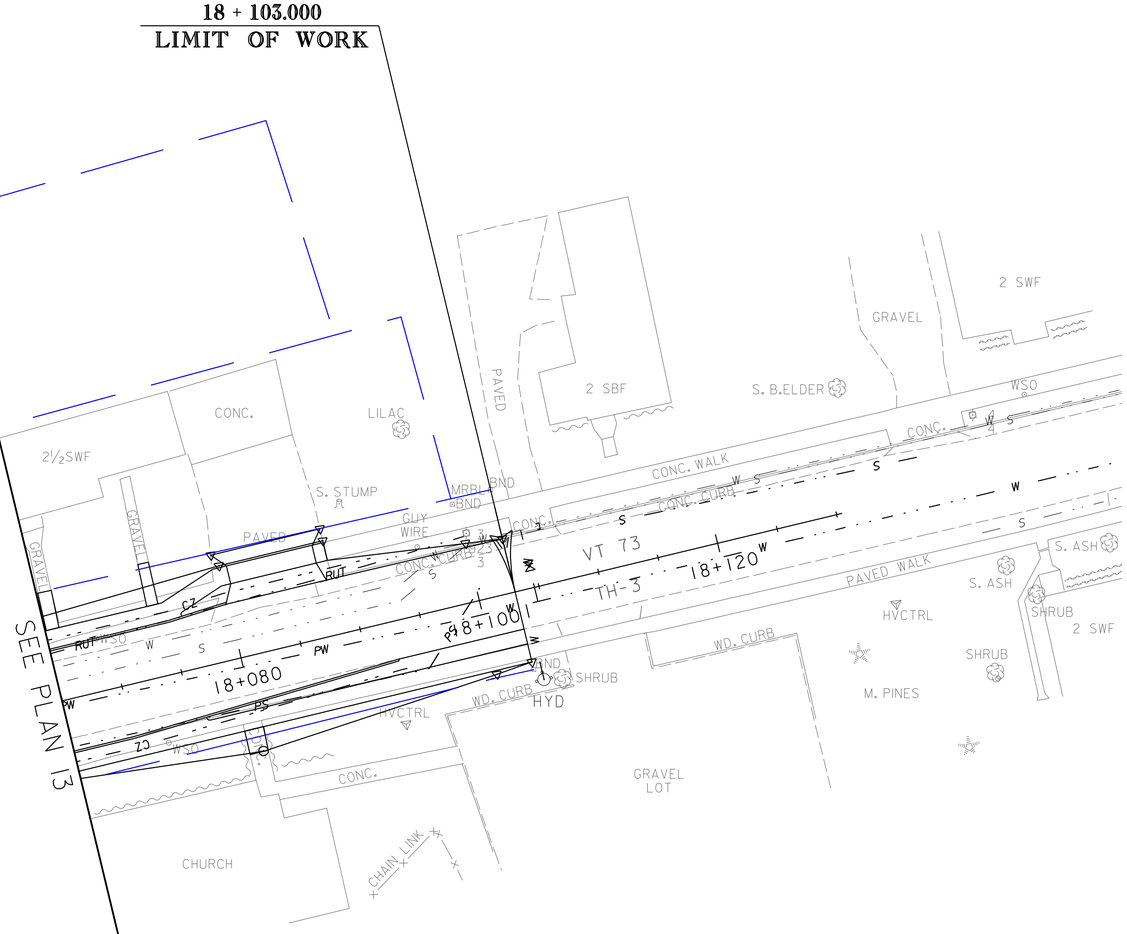
PORTLAND CEMENT CONCRETE SIDEWALK, 200 mm
19+085.0 - 19+090.6 LT

BITUMINOUS CONCRETE SIDEWALK
18+065.6 LT (1.1 m WIDE, SLOPE=-5.0%)
18+074.0 LT (0.9 m WIDE, SLOPE=-5.0%)

VERTICAL GRANITE CURB
18+065.0 - 18+079.9 LT
18+065.0 - 18+092.5 RT
19+085.0 - 19+095.0 RT
19+089.9 - 19+095.0 LT

VT STATE PLANE GRID
N





0 10 20 30
SCALE IN METERS

ROADWAY LAYOUT 13A

PROJECT NAME: BRANDON
PROJECT NUMBER: NH 019-3(496)

FILE NAME: zb008s6-gen.dgn
PROJECT LEADER: C. BEAN
DESIGNED BY: P. SHEDD

PLOT DATE: 2/23/2017
DRAWN BY: N. LEMAY
CHECKED BY: D. MUNRO
SHEET 123 OF 601

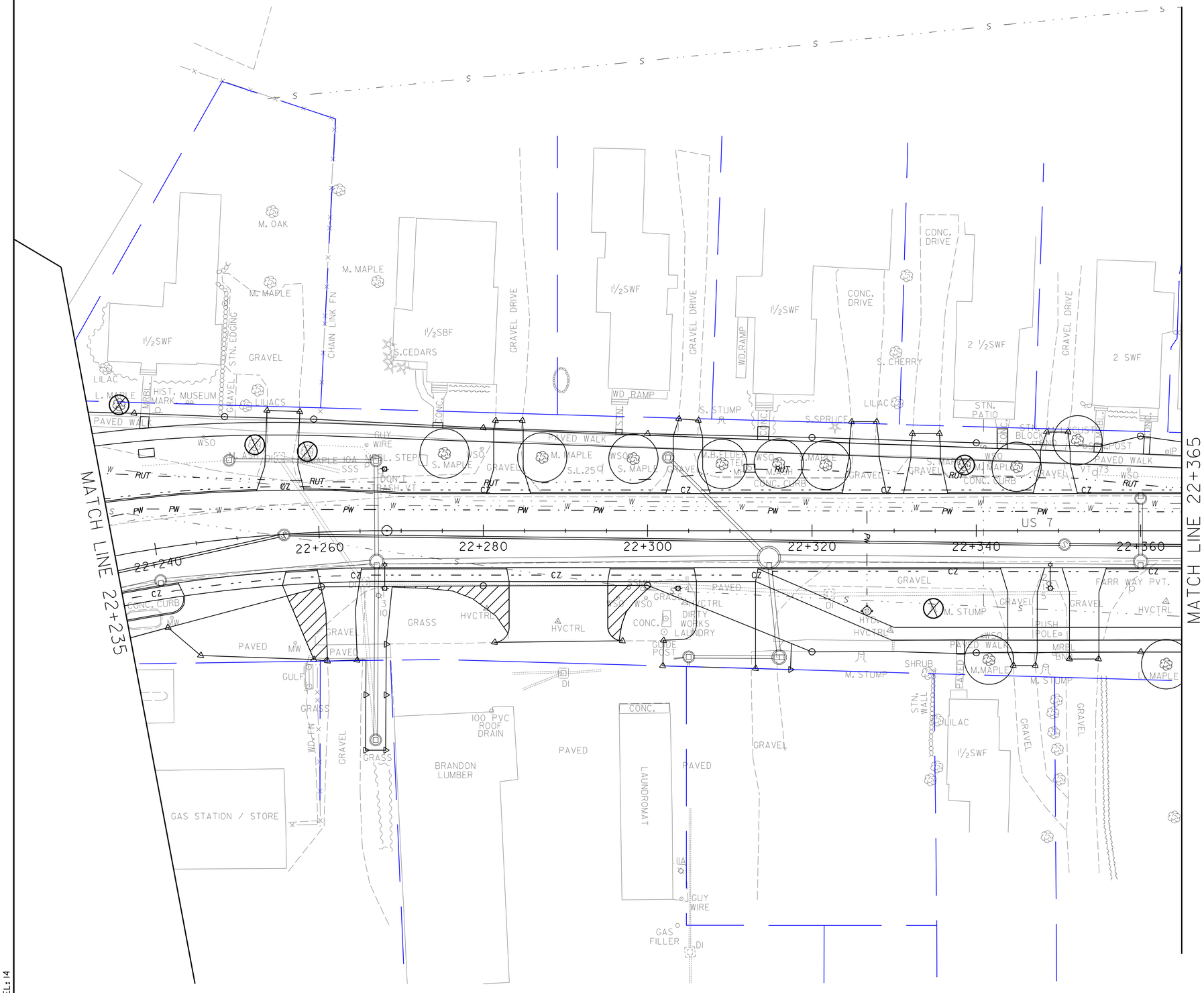
CLD 02-0448 MODEL: 13A

ISSUED FOR CONSTRUCTION

VT STATE PLANE GRID

N

VAOT Metric



0 10 20 30

SCALE IN METERS

CONSTRUCT DRIVES

22+248.9 RT (12.0 m WIDE, PAVED - COMM.)
22+255.8 LT (4.0 m WIDE, GRAVEL - RES., PAVE TO SWLK)
22+262.2 RT (4.8 m WIDE, PAVED - RES.)
22+283.1 LT (3.6 m WIDE, GRAVEL - RES., PAVE TO SWLK)
22+289.1 RT (12.0 m WIDE, PAVED - COMM.)
22+304.9 LT (3.6 m WIDE, GRAVEL - RES., PAVE TO SWLK)
22+309.5 RT (7.2 m WIDE, PAVED - COMM.)
22+326.4 LT (3.6 m WIDE, CONC.- RES., PAVE TO SWLK)
22+333.8 LT (3.6 m WIDE, CONC.- RES., PAVE TO SWLK)
22+345.6 RT (3.6 m WIDE, GRAVEL - RES., PAVE TO SWLK)
22+349.6 LT (3.6 m WIDE, GRAVEL - RES., PAVE TO SWLK)
22+353.1 RT (3.6 m WIDE, GRAVEL - RES., PAVE TO SWLK)

PORTLAND CEMENT CONCRETE SIDEWALK, 125 mm

22+235.0 - 22+365.0 LT
22+235.0 - 22+242.7 RT
22+240.8 LT (1.0 m WIDE, SLOPE= 2.6%)
22+255.1 - 22+281.6 RT
22+274.5 LT (1.2 m WIDE, SLOPE= 0.7%)
22+296.7 - 22+304.4 RT
22+314.0 LT (1.4 m WIDE, SLOPE= 2.0%)
22+314.7 - 22+365.0 RT
22+343.2 LT (1.3 m WIDE, SLOPE=-5.0%)
22+360.7 LT (0.8 m WIDE, SLOPE=-1.0%)

PORTLAND CEMENT CONCRETE SIDEWALK, 200 mm

22+281.6 - 22+296.7 RT
22+304.4 - 22+314.7 RT

BITUMINOUS CONCRETE SIDEWALK

22+338.1 RT (0.9 m WIDE, SLOPE= 2.0%)
22+242.7 - 22+255.1 RT (1.53 m WIDE)

SPECIAL PROVISION (REMOVE AND RESET STONE WALKWAY)

22+296.5 LT (0.8 m WIDE, SLOPE= 2.6%)
22+354.8 LT (1.0 m WIDE, SLOPE=-4.0%)

VERTICAL GRANITE CURB

22+235.0 - 22+242.1 RT
22+235.0 - 22+252.9 LT
22+255.7 - 22+259.6 RT
22+258.4 - 22+280.4 LT
22+265.1 - 22+282.8 RT
22+285.8 - 22+302.2 LT
22+295.4 - 22+305.6 RT
22+307.6 - 22+323.7 LT
22+313.4 - 22+342.9 RT
22+336.5 - 22+346.9 LT
22+352.3 - 22+365.0 LT
22+355.8 - 22+365.0 RT

GRANITE SLOPE EDGING

22+235.0 - 22+242.7 RT (BEHIND SWLK/ISLAND)

REMOVING TREES
REMOVING STUMPS

22+238.5 LT (L)
22+338.6 LT (S)
22+253.1 LT (M)
22+259.1 LT (M)

EXCAVATION OF SURFACES AND PAVEMENTS (PLACE 100mm TOPSOIL, SEED, FERTILIZER, LIMESTONE AND HAY MULCH)

22+255.6 - 22+260.4 RT
22+268.9 - 22+283.1 RT
22+295.1 - 22+300.3 RT

ROADWAY LAYOUT 14

PROJECT NAME: BRANDON
PROJECT NUMBER: NH 019-3(496)

FILE NAME: zb008s6-gen.dgn
PROJECT LEADER: C. BEAN
DESIGNED BY: P. SHEDD

PLOT DATE: 2/23/2017
DRAWN BY: N. LEMAY
CHECKED BY: D. MUNRO
SHEET 124 OF 601

CLD 02-0448 MODEL: 14

ISSUED FOR CONSTRUCTION

VAOT Metric

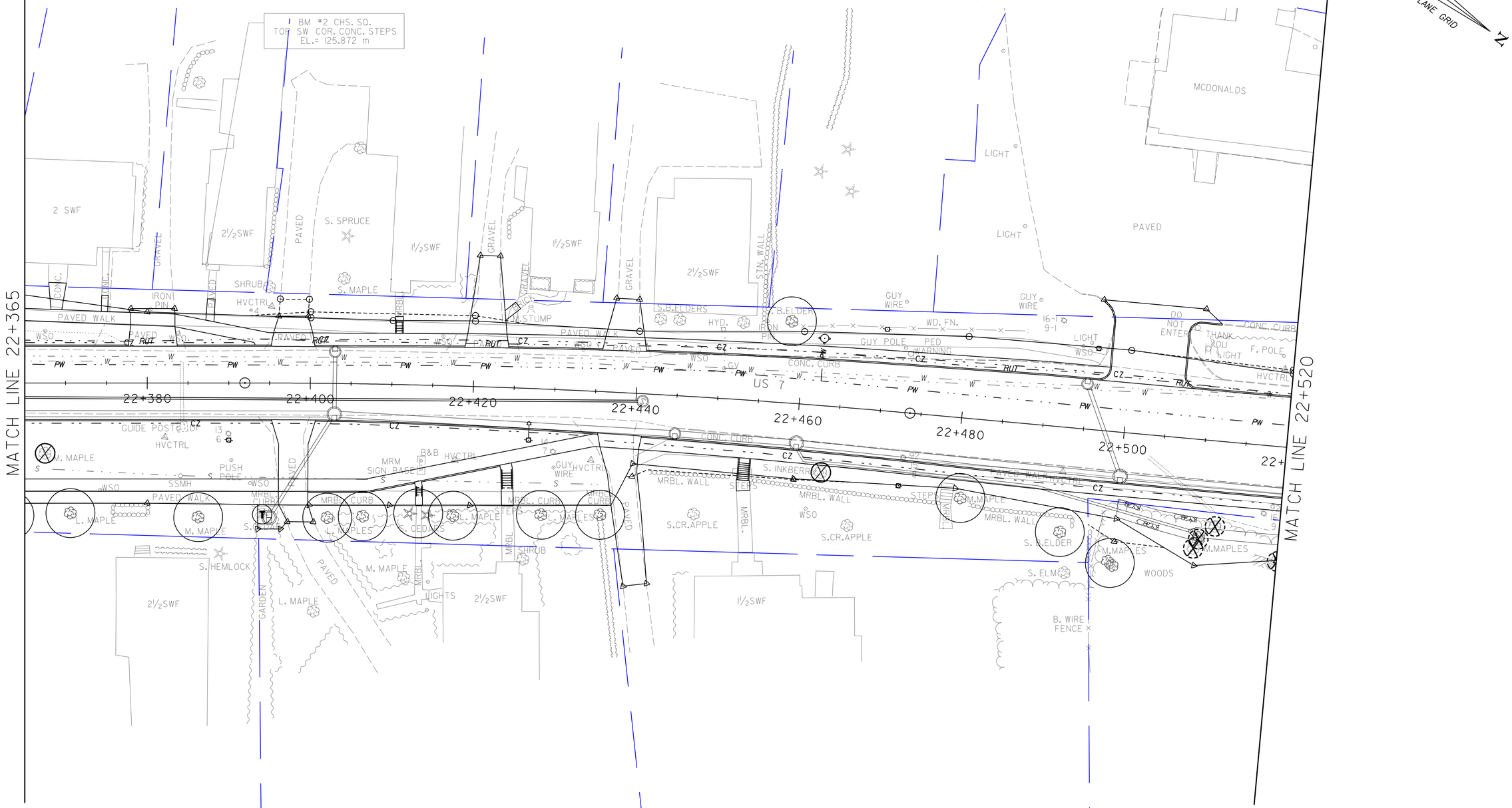
CONSTRUCT DRIVES
22+380.7 LT (5.4 m WIDE, GRAVEL - RES., PAVE TO SWLK)
22+397.9 LT (4.8 m WIDE, PAVED - RES.)
22+398.0 RT (3.6 m WIDE, PAVED - RES.)
22+421.5 LT (4.8 m WIDE, GRAVEL - RES.)
22+438.2 RT (4.8 m WIDE, PAVED - RES.)
22+438.3 LT (4.8 m WIDE, GRAVEL - RES.)
22+502.3 LT (9.1 m WIDE, PAVED - COMM.)

PORTLAND CEMENT CONCRETE SIDEWALK, 125 mm
22+365.0 - 22+497.7 LT
22+365.0 - 22+520.0 RT
22+368.9 LT (1.8 m WIDE, SLOPE=8.0%)
22+374.8 LT (0.8 m WIDE, SLOPE=3.0%)
22+413.6 RT (0.9 m WIDE, SLOPE=5.0%)
22+424.1 RT (1.5 m WIDE, SLOPE=0.5%)

BITUMINOUS CONCRETE SIDEWALK
22+387.7 LT (1.0 m WIDE, SLOPE=-4.0%)

SPECIAL PROVISION (REMOVE AND RESET BRICK WALKWAY)
22+423.6 LT (1.0 m WIDE, SLOPE=-5.7%)

SPECIAL PROVISION (REMOVE AND RESET STONE WALKWAY)
22+410.8 LT (0.9 m WIDE, SLOPE=0.0%)
22+453.8 RT (1.5 m WIDE, SLOPE=2.0%)



CONSTRUCT CONCRETE STEPS
22+410.8 LT (0.9 m WIDE, 3 RISERS)
22+413.6 RT (0.9 m WIDE, 3 RISERS)
22+424.1 RT (1.5 m WIDE, 7 RISERS)
22+453.8 RT (1.5 m WIDE, 9 RISERS)

SPECIAL PROVISION (METAL HAND RAILING)
22+410.4 LT
22+411.1 LT
22+413.3 RT
22+413.9 RT
22+423.8 RT
22+425.0 RT
22+453.2 RT
22+454.4 RT

VERTICAL GRANITE CURB
22+365.0 - 22+377.7 LT
22+365.0 - 22+395.3 RT
22+383.7 - 22+395.2 LT
22+399.8 - 22+413.1 RT (BEHIND SWLK)
22+400.5 - 22+418.8 LT
22+400.7 - 22+435.5 RT
22+414.0 - 22+423.5 RT (BEHIND SWLK)
22+424.2 - 22+435.6 LT
22+440.9 - 22+520.0 RT
22+441.0 - 22+497.7 LT
22+506.8 - 22+520.0 LT

REBUILT STONE MASONRY (RESET STONE WALL)
22+442.1 - 22+452.1 RT
22+454.7 - 22+465.0 RT

REMOVING TREES
22+367.5 RT (M)
22+394.1 RT (S)
22+463.3 RT (S)

0 10 20 30
SCALE IN METERS

ROADWAY LAYOUT 15

PROJECT NAME: BRANDON
PROJECT NUMBER: NH 019-3(496)

FILE NAME: zb0008s6-gen.dgn
PROJECT LEADER: C. BEAN
DESIGNED BY: P. SHEDD
PLOT DATE: 2/23/2017
DRAWN BY: N. LEMAY
CHECKED BY: D. MUNRO
SHEET 125 OF 601

CLD 02-0448 MODEL:15

ISSUED FOR CONSTRUCTION

VAOT Metric

CONSTRUCT DRIVES
22+544.2 LT (9.1 m WIDE, PAVED - COMM.)
22+557.4 LT (6.0 m WIDE, PAVED - COMM.)
22+583.4 LT (16.0 m WIDE, PAVED - COMM.)
22+624.0 LT (12.0 m WIDE, PAVED - COMM.)

PORTLAND CEMENT CONCRETE SIDEWALK, 125 mm
22+520.0 - 22+662.0 RT

VERTICAL GRANITE CURB
22+520.0 - 22+539.6 LT
22+520.0 - 22+662.0 RT
22+548.8 - 22+554.4 LT
22+560.4 - 22+575.4 LT (GRASS ISLAND)
22+591.4 - 22+618.0 LT (GRASS ISLAND)

REMOVAL OF EXISTING FENCE
22+639.0 - 22+650.9 LT

WOVEN WIRE FENCE WITH STEEL POSTS
22+639.0 - 22+640.3 LT
22+643.2 - 22+650.9 LT

STEEL BRACE FOR WOVEN WIRE FENCE
22+639.0 LT (2)
22+640.3 LT
22+643.2 LT
22+650.9 LT (2)

VT STATE PLANE GRID N

22 + 630.000
END PROJECT
NH 019-3(496)
BEGIN APPROACH

22 + 680.000
END APPROACH

WETLAND #23
CLASS 2
PEMB

MATCH LINE 22+520

22+520 22+540 22+560 22+580 22+600 22+620 22+640 22+660 22+680 22+700

GAS PUMPS
CONC.
PAVED
CONC. CURB
MON. WELLS AND GAS FILLERS
BND
SHELL MCDONALDS
VENT
LIGHT
CONC. CURB
S.L. 35
HVCTRL
DRIVE
LIGHT
HH
PUT
BRANDON AUTO SALES
WSO
CONC
PAVED
SHRUB
GRAVEL
W WIRE FENCE
HVCTRL #2
PIN
GV
STIC
BND
HVCTRL
PAVED
US 7
CZ
PW
UT
W
CONC. CURB
SL 40 THROUGH WAY BEGINS HERE
GUY WIRE
MAPLES
S.MAPLE
M.MAPLE
WOODS
LEDGE
HVCTRL #3
DITCH
M. MAPLE
S.BASSWD
CHAIN LINK FENCE
ABANDONED QUARRY
PAVED WALK
S. LOCUST
GRAVEL
WD. FENCE
SHRUB
2½SWF

BM #1 CHS. SQ.
IN LEDGE
EL.= 120.49 m

STA 22+511.0 RT - 22+609.0 RT
STORMWATER TREATMENT GRASS CHANNEL
DISCHARGE PERMIT #4164 - INDS

0 10 20 30
SCALE IN METERS

ROADWAY LAYOUT 16

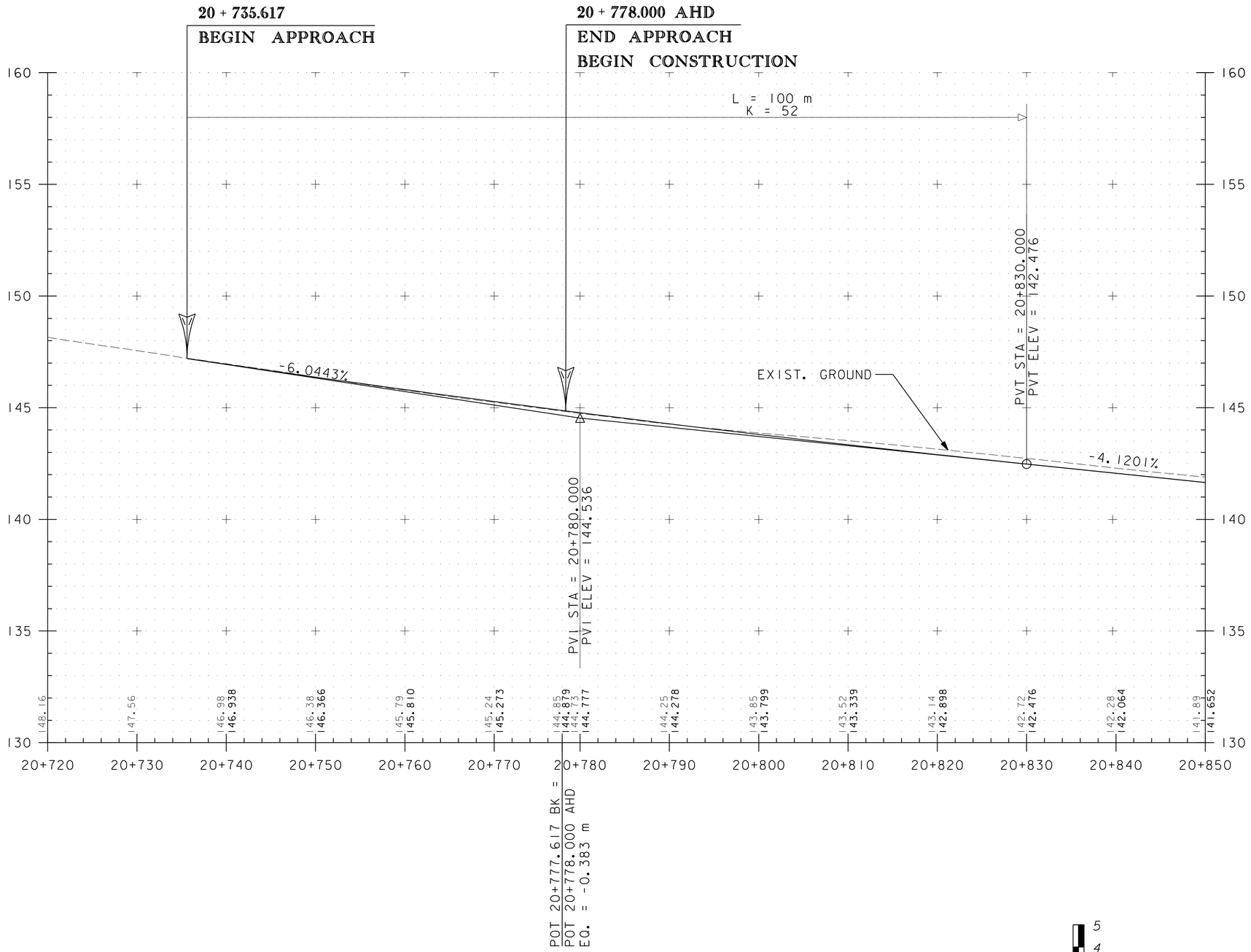
PROJECT NAME: BRANDON
PROJECT NUMBER: NH 019-3(496)

FILE NAME: zb008s6-gen.dgn
PROJECT LEADER: C. BEAN
DESIGNED BY: P. SHEDD
PLOT DATE: 2/23/2017
DRAWN BY: N. LEMAY
CHECKED BY: D. MUNRO
SHEET 126 OF 601

CLD 02-0448 MODEL: 16

ISSUED FOR CONSTRUCTION

VAOT Metric



0 10 20
SCALE IN METERS

PROFILE - US 7

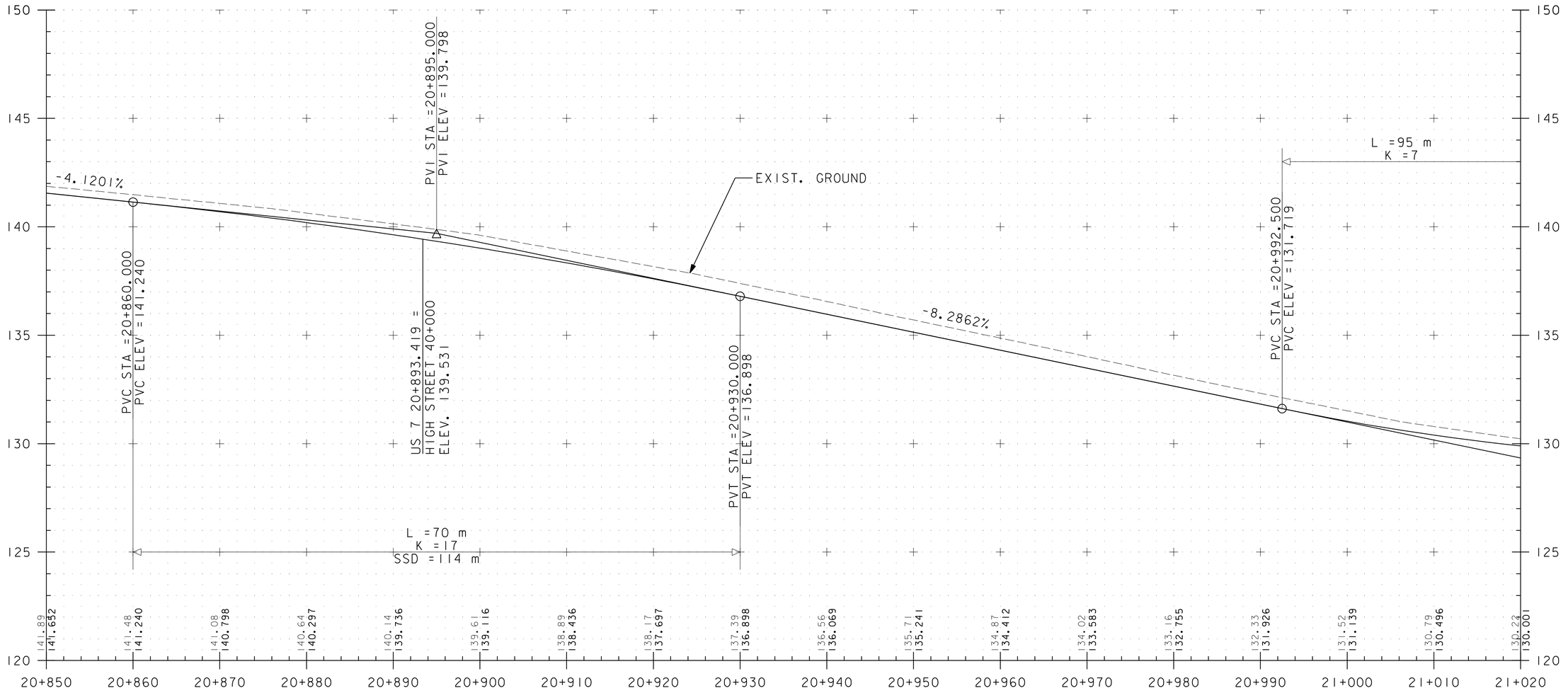
PROJECT NAME: BRANDON
PROJECT NUMBER: NH 019-3(496)

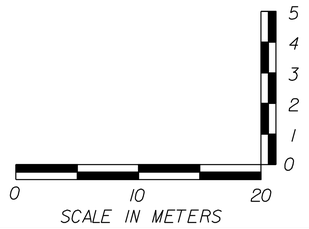
FILE NAME: zb0008s6-pro.dgn
PROJECT LEADER: C. BEAN
DESIGNED BY: D. MUNRO

PLOT DATE: 2/23/2017
DRAWN BY: N. LEMAY
CHECKED BY: P. SHEDD
SHEET 127 OF 601

CLD 02-0448 MODEL:1

ISSUED FOR CONSTRUCTION





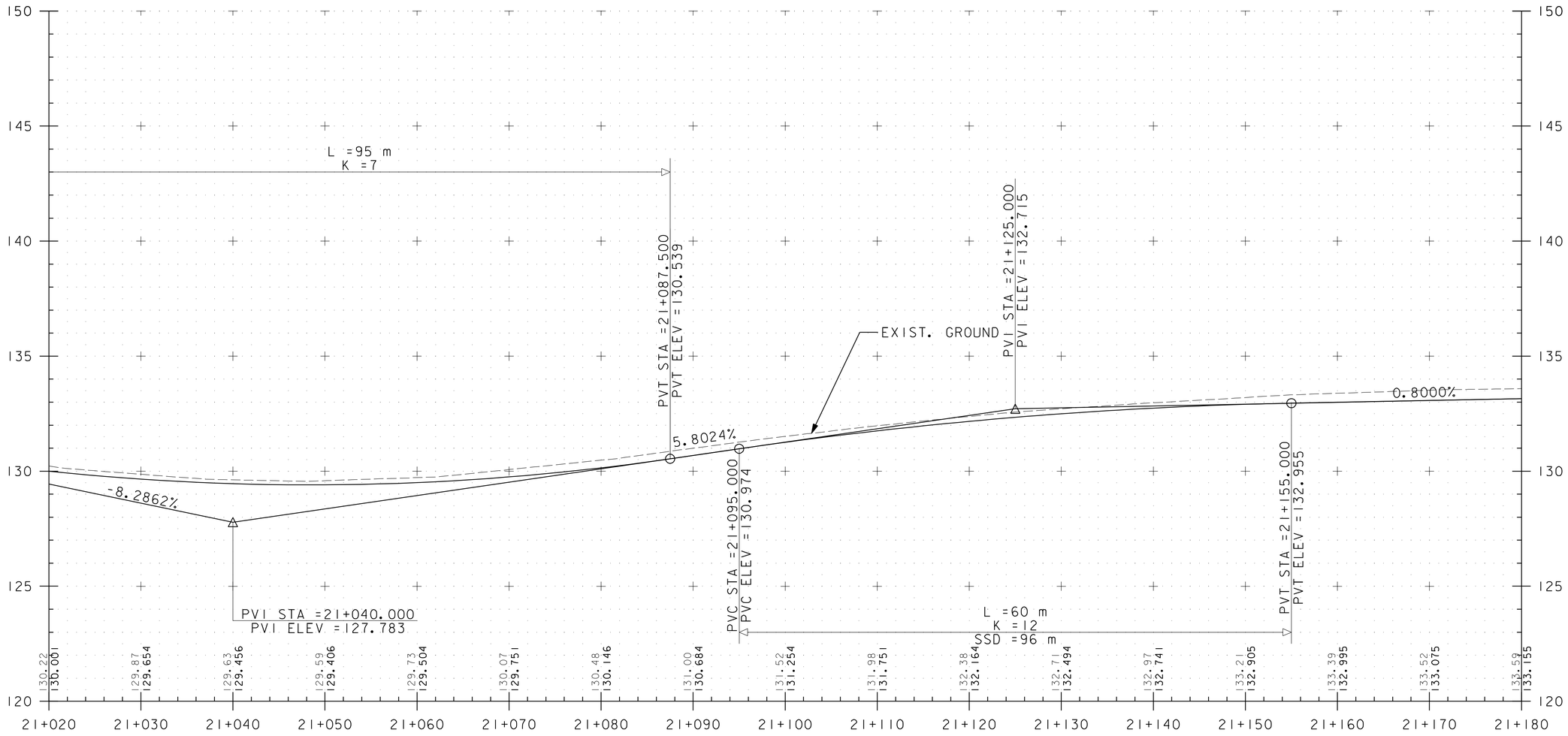
PROFILE - US 7

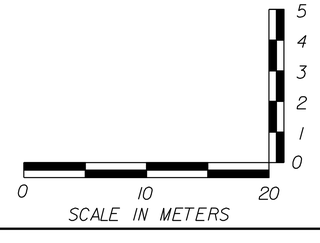
PROJECT NAME: BRANDON
PROJECT NUMBER: NH 019-3(496)

FILE NAME: zb008s6-pro.dgn
PROJECT LEADER: C. BEAN
DESIGNED BY: D. MUNRO

PLOT DATE: 2/23/2017
DRAWN BY: N. LEMAY
CHECKED BY: P. SHEDD
SHEET 128 OF 601

CLD 02-0448 MODEL: 2



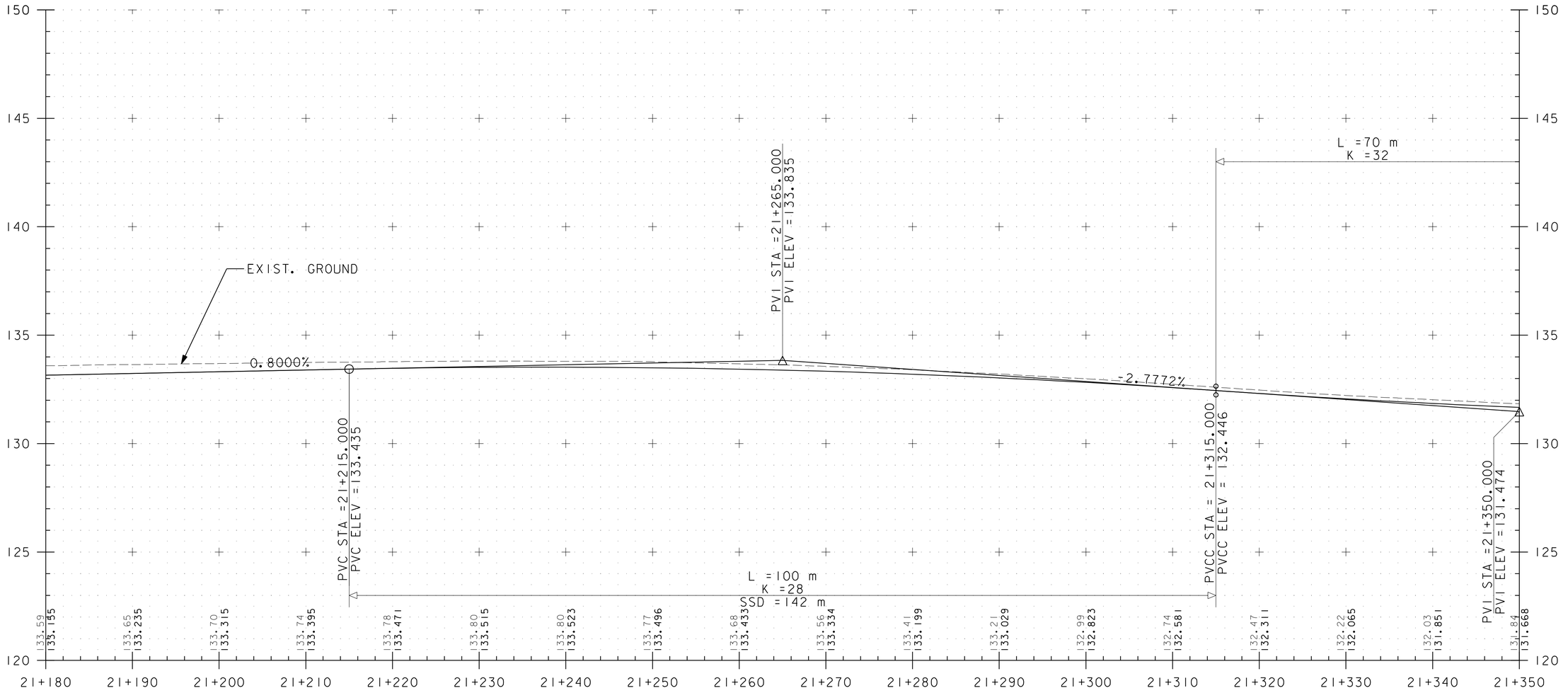


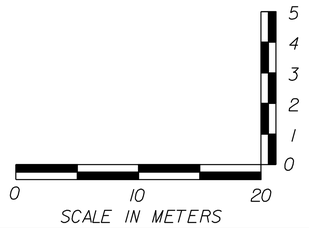
PROFILE - US 7

PROJECT NAME:	BRANDON
PROJECT NUMBER:	NH 019-3(496)
FILE NAME: zb008s6-pro.dgn	PLOT DATE: 2/23/2017
PROJECT LEADER: C. BEAN	DRAWN BY: N. LEMAY
DESIGNED BY: D. MUNRO	CHECKED BY: P. SHEDD
	SHEET 129 OF 601

CLD 02-0448 MODEL: 3

ISSUED FOR CONSTRUCTION





PROFILE - US 7

PROJECT NAME: BRANDON
PROJECT NUMBER: NH 019-3(496)

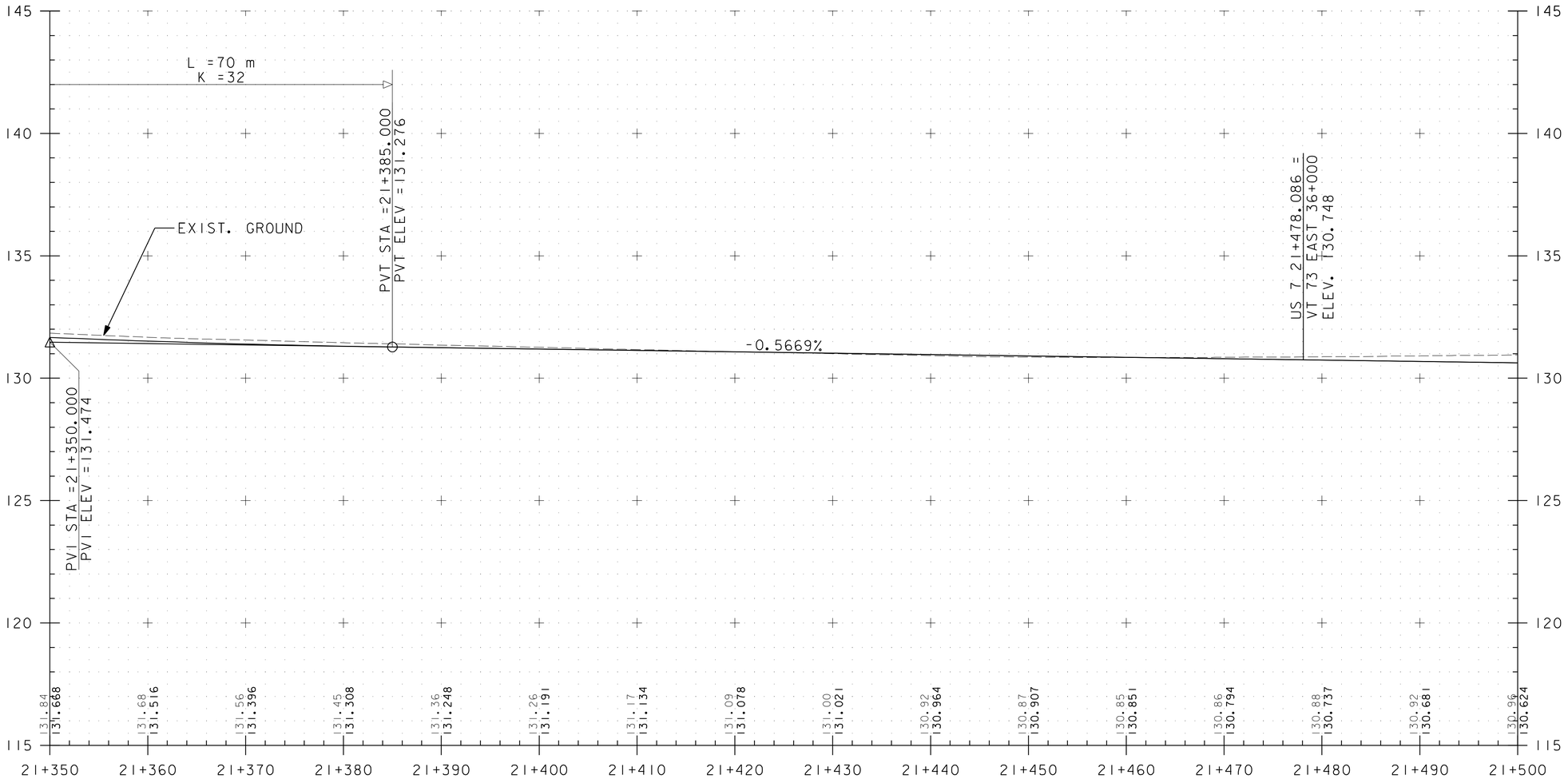
FILE NAME: zb008s6-pro.dgn
PROJECT LEADER: C. BEAN
DESIGNED BY: D. MUNRO

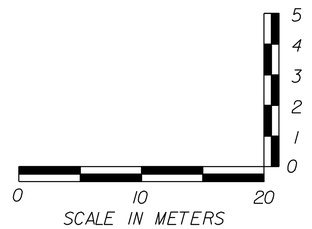
PLOT DATE: 2/23/2017
DRAWN BY: N. LEMAY
CHECKED BY: P. SHEDD
SHEET 130 OF 601

CLD 02-0448 MODEL: 4

ISSUED FOR CONSTRUCTION

Metric





PROFILE - US 7

PROJECT NAME: BRANDON
PROJECT NUMBER: NH 019-3(496)

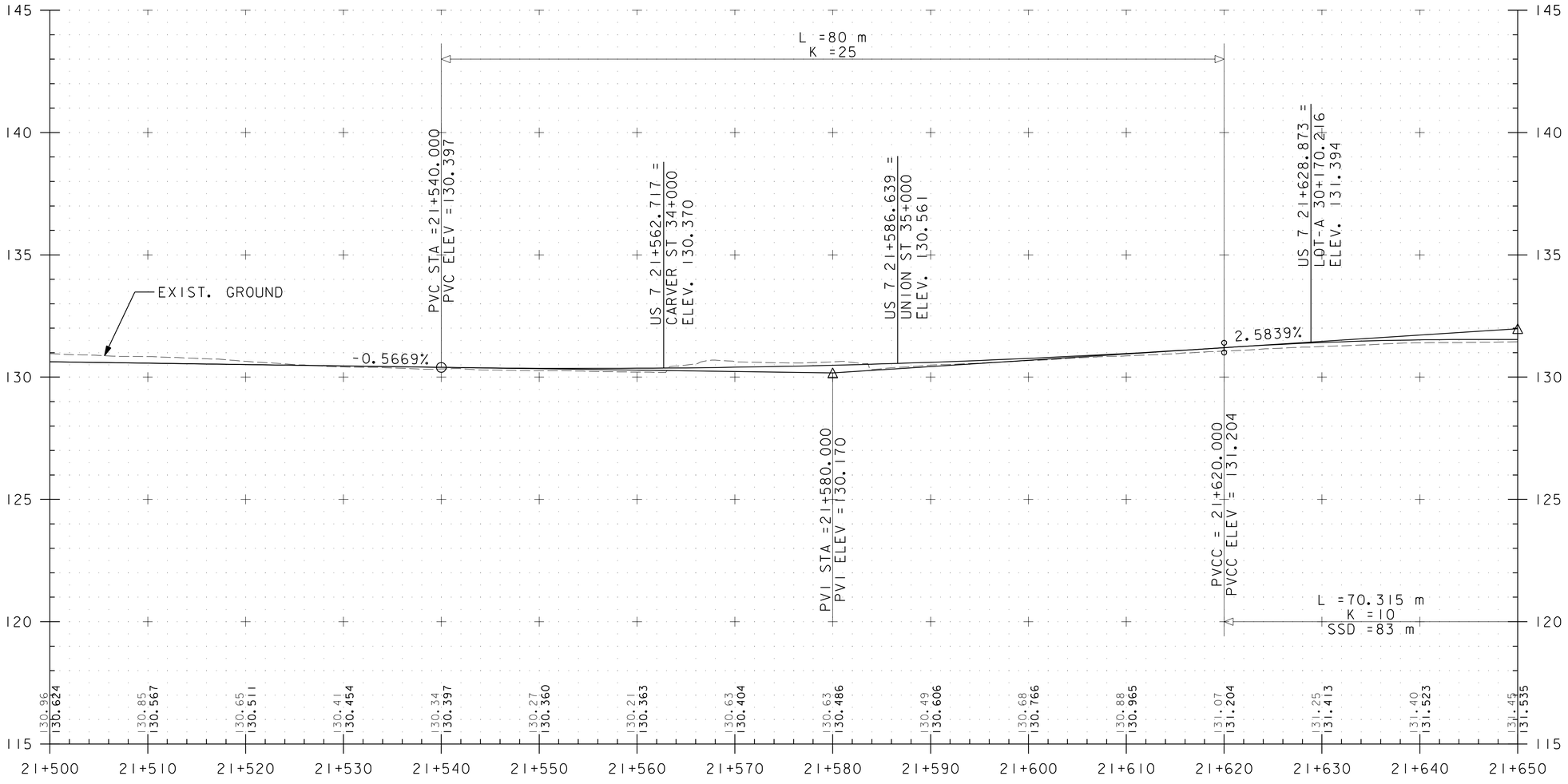
FILE NAME: zb008s6-pro.dgn
PROJECT LEADER: C. BEAN
DESIGNED BY: D. MUNRO

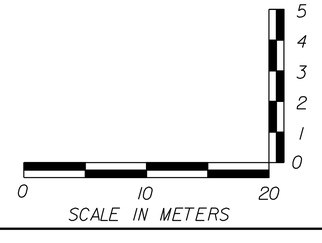
PLOT DATE: 2/23/2017
DRAWN BY: N. LEMAY
CHECKED BY: P. SHEDD
SHEET 131 OF 601

CLD 02-0448 MODEL: 5

ISSUED FOR CONSTRUCTION

Metric





PROFILE - US 7

PROJECT NAME: BRANDON
PROJECT NUMBER: NH 019-3(496)

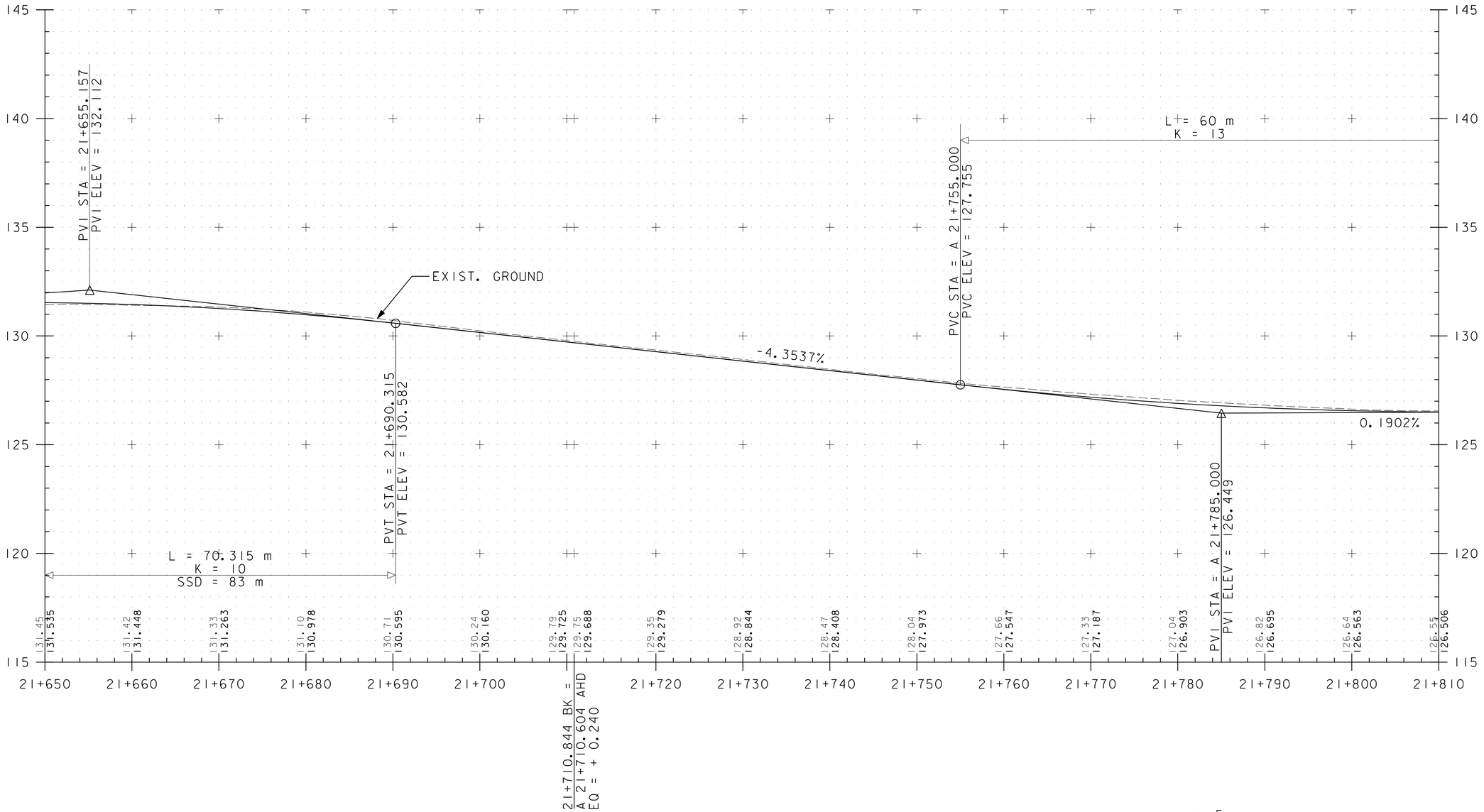
FILE NAME: zb008s6-pro.dgn
PROJECT LEADER: C. BEAN
DESIGNED BY: D. MUNRO

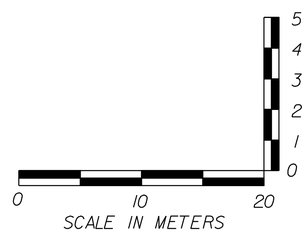
PLOT DATE: 2/23/2017
DRAWN BY: N. LEMAY
CHECKED BY: P. SHEDD
SHEET 132 OF 601

CLD 02-0448 MODEL: 6

ISSUED FOR CONSTRUCTION

Metric





PROFILE - US 7

PROJECT NAME: BRANDON
PROJECT NUMBER: NH 019-3(496)

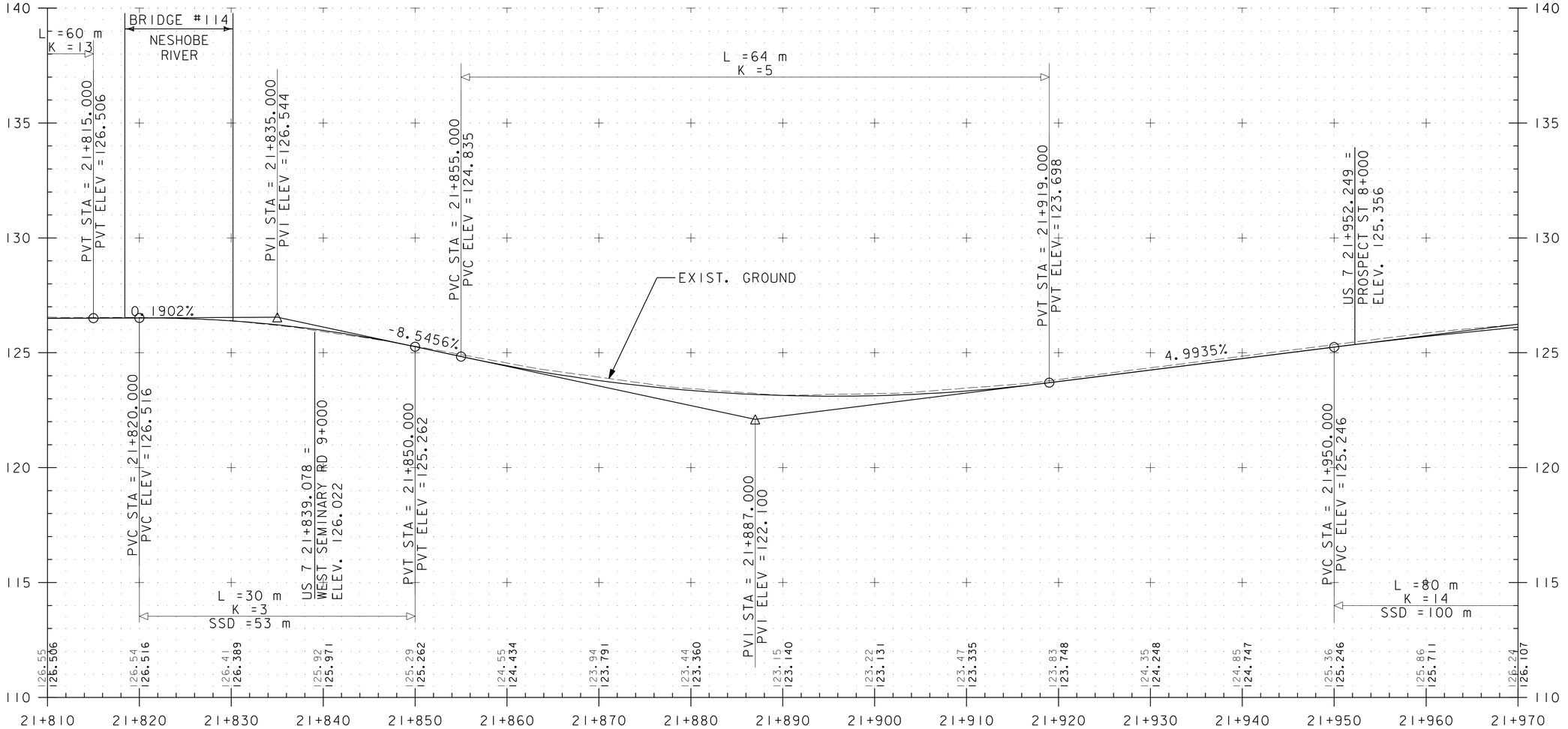
FILE NAME: zb008s6-pro.dgn
PROJECT LEADER: C. BEAN
DESIGNED BY: D. MUNRO

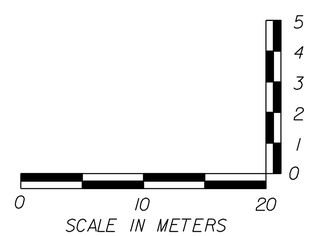
PLOT DATE: 2/23/2017
DRAWN BY: N. LEMAY
CHECKED BY: P. SHEDD
SHEET 133 OF 601

CLD 02-0448 MODEL: 7

ISSUED FOR CONSTRUCTION

Metric

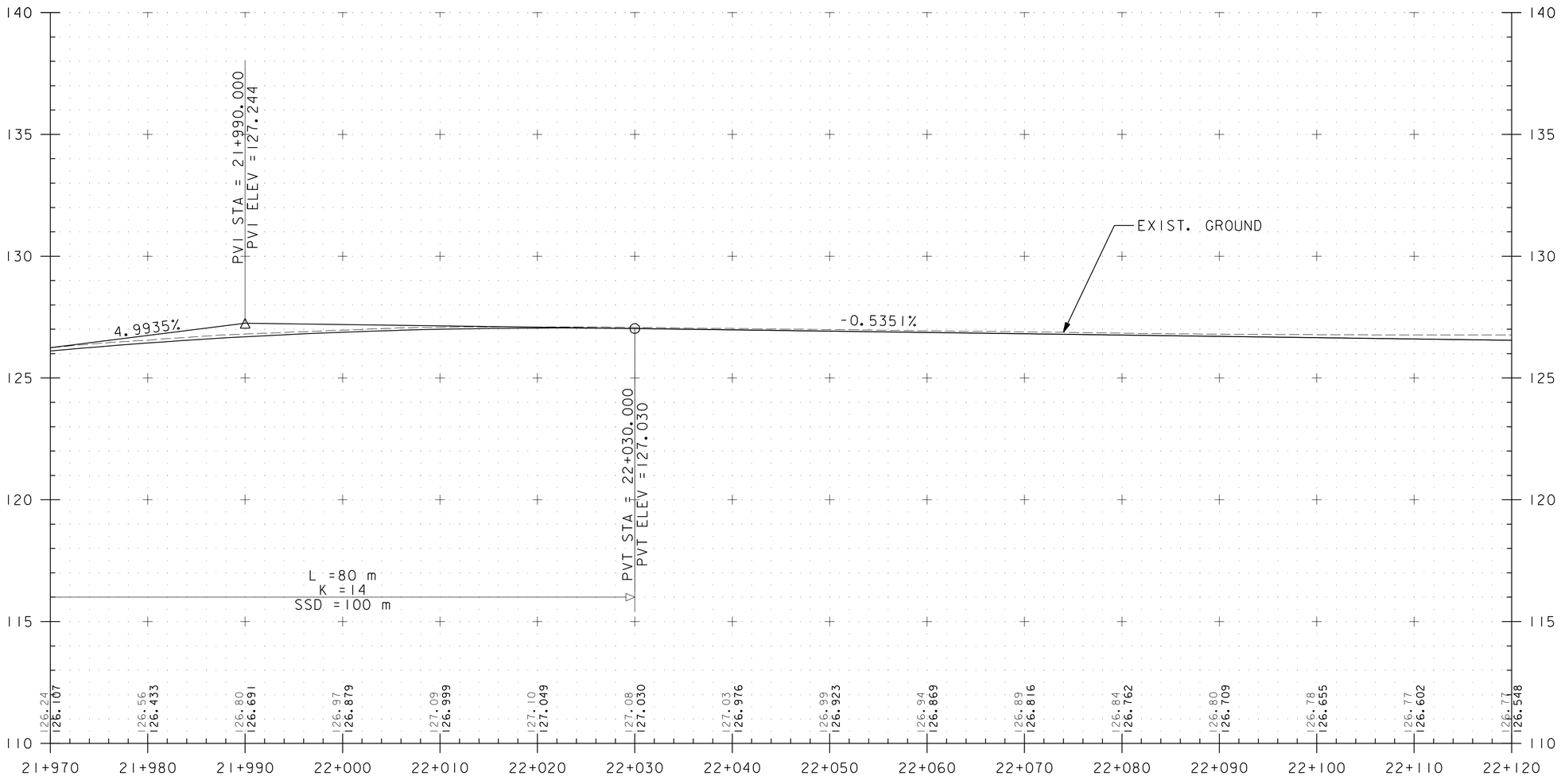


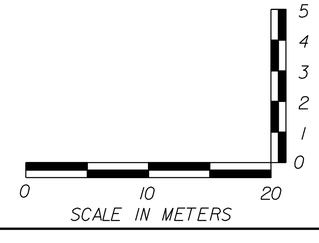


PROFILE - US 7

PROJECT NAME:	BRANDON
PROJECT NUMBER:	NH 019-3(496)
FILE NAME: zb008s6-pro.dgn	PLOT DATE: 2/23/2017
PROJECT LEADER: C. BEAN	DRAWN BY: N. LEMAY
DESIGNED BY: D. MUNRO	CHECKED BY: P. SHEDD
	SHEET 134 OF 601

CLD 02-0448 MODEL: 8





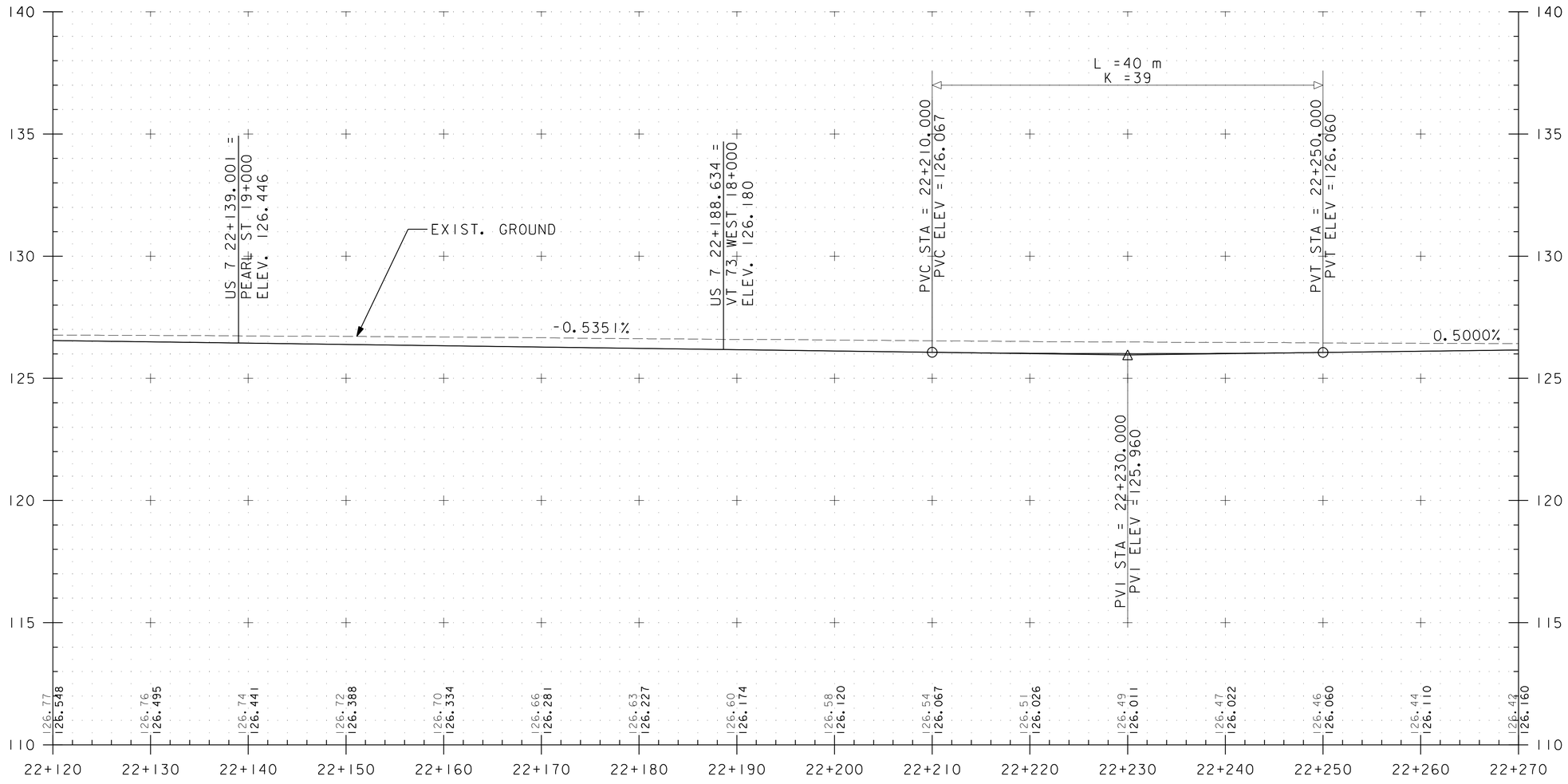
PROFILE - US 7

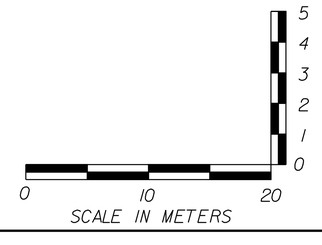
PROJECT NAME: BRANDON
PROJECT NUMBER: NH 019-3(496)

FILE NAME: zb008s6-pro.dgn
PROJECT LEADER: C. BEAN
DESIGNED BY: D. MUNRO

PLOT DATE: 2/23/2017
DRAWN BY: N. LEMAY
CHECKED BY: P. SHEDD
SHEET 135 OF 601

CLD 02-0448 MODEL: 9





PROFILE - US 7

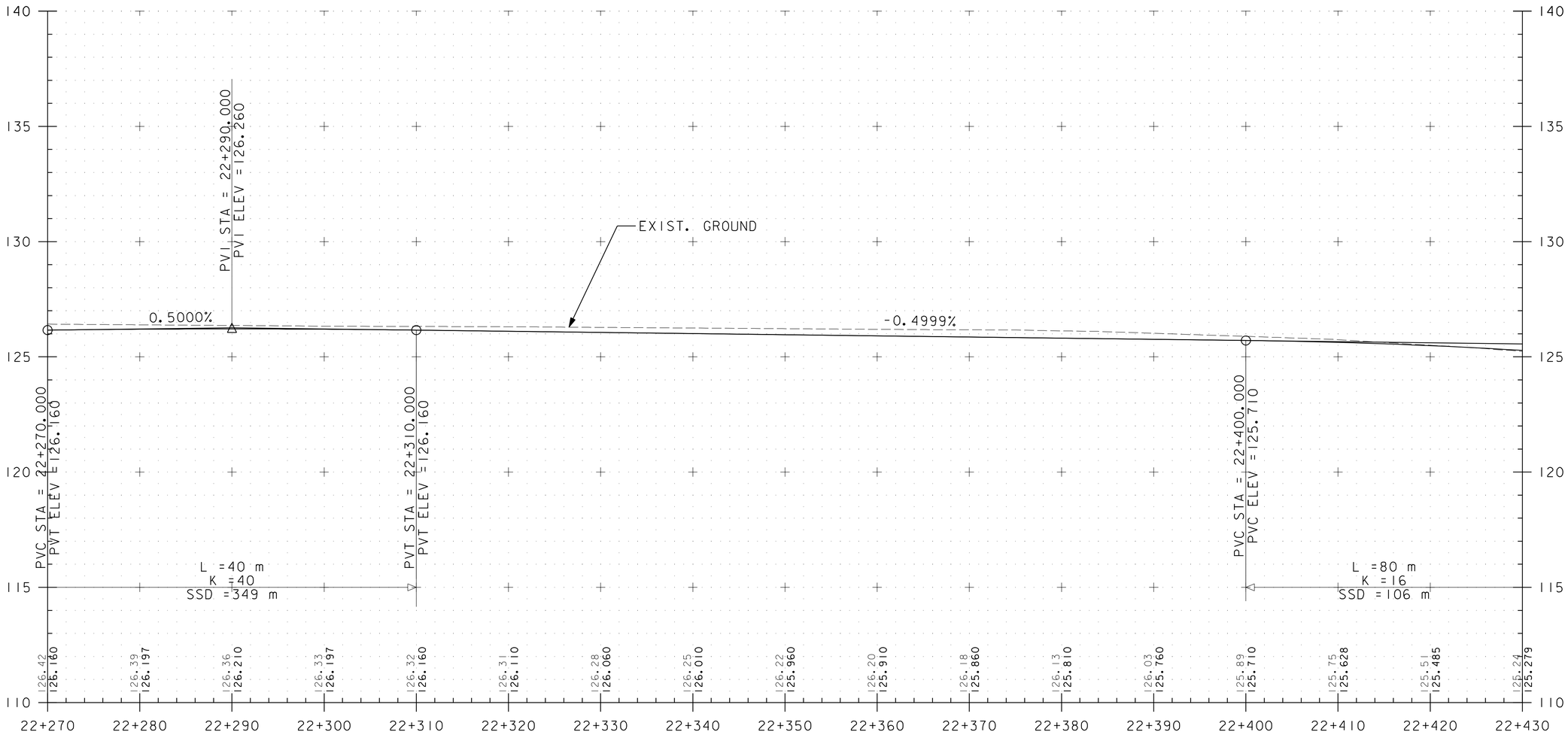
PROJECT NAME: BRANDON
PROJECT NUMBER: NH 019-3(496)

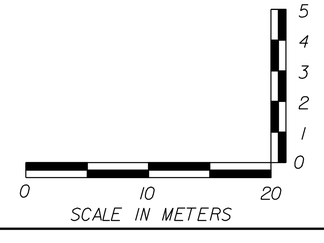
FILE NAME: zb0008s6-pro.dgn
PROJECT LEADER: C. BEAN
DESIGNED BY: D. MUNRO

PLOT DATE: 2/23/2017
DRAWN BY: N. LEMAY
CHECKED BY: P. SHEDD
SHEET 136 OF 601

CLD 02-0448 MODEL:10

ISSUED FOR CONSTRUCTION





PROFILE - US 7

PROJECT NAME: BRANDON
PROJECT NUMBER: NH 019-3(496)

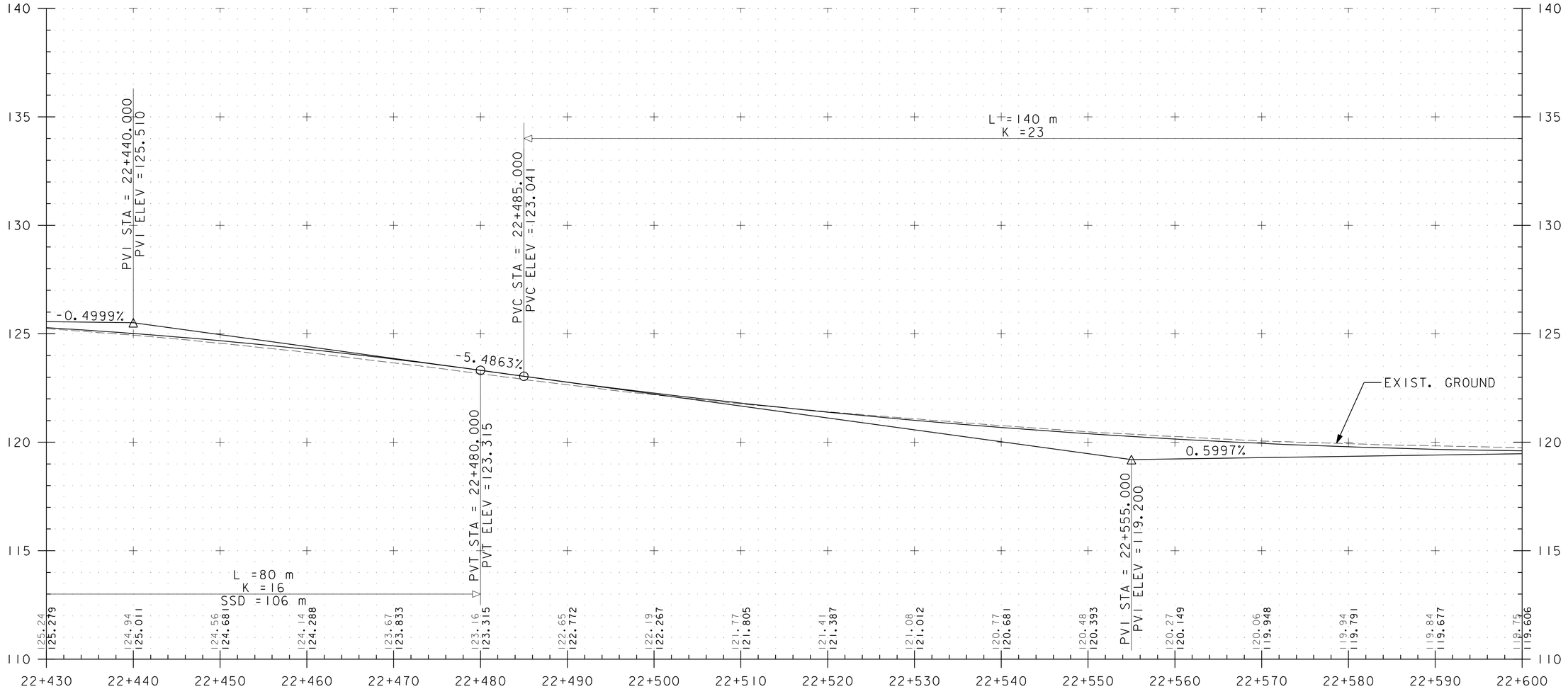
FILE NAME: zb008s6-pro.dgn
PROJECT LEADER: C. BEAN
DESIGNED BY: D. MUNRO

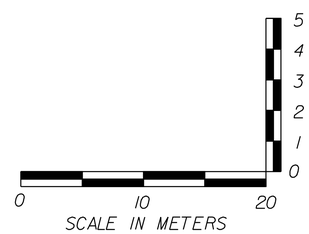
PLOT DATE: 2/23/2017
DRAWN BY: N. LEMAY
CHECKED BY: P. SHEDD
SHEET 137 OF 601

CLD 02-0448 MODEL: II

ISSUED FOR CONSTRUCTION

VAOT Metric





PROFILE - US 7

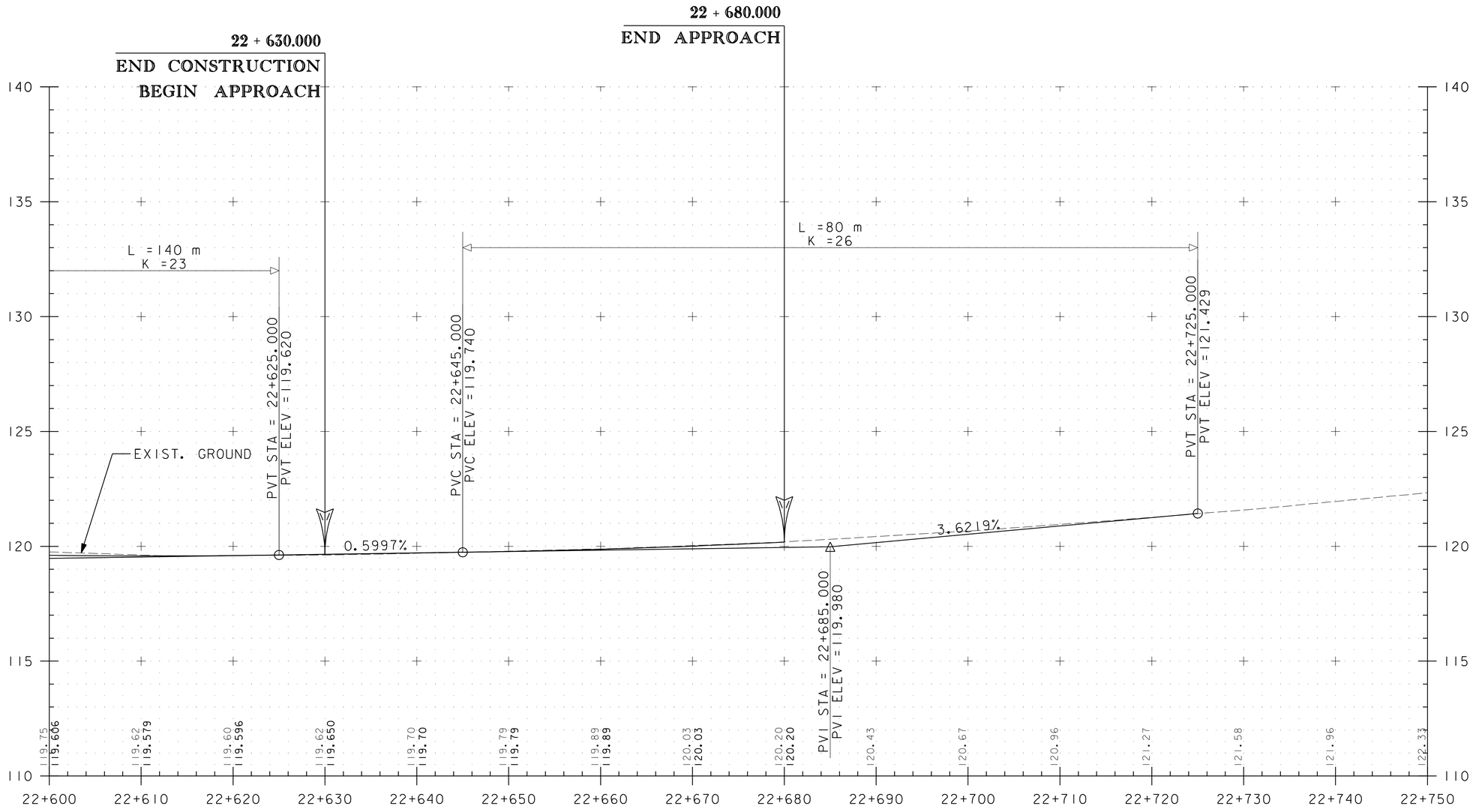
PROJECT NAME: BRANDON
PROJECT NUMBER: NH 019-3(496)

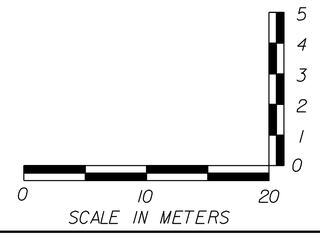
FILE NAME: zb008s6-pro.dgn
PROJECT LEADER: C. BEAN
DESIGNED BY: D. MUNRO

PLOT DATE: 2/23/2017
DRAWN BY: N. LEMAY
CHECKED BY: P. SHEDD
SHEET 138 OF 601

CLD 02-0448 MODEL: 12

ISSUED FOR CONSTRUCTION

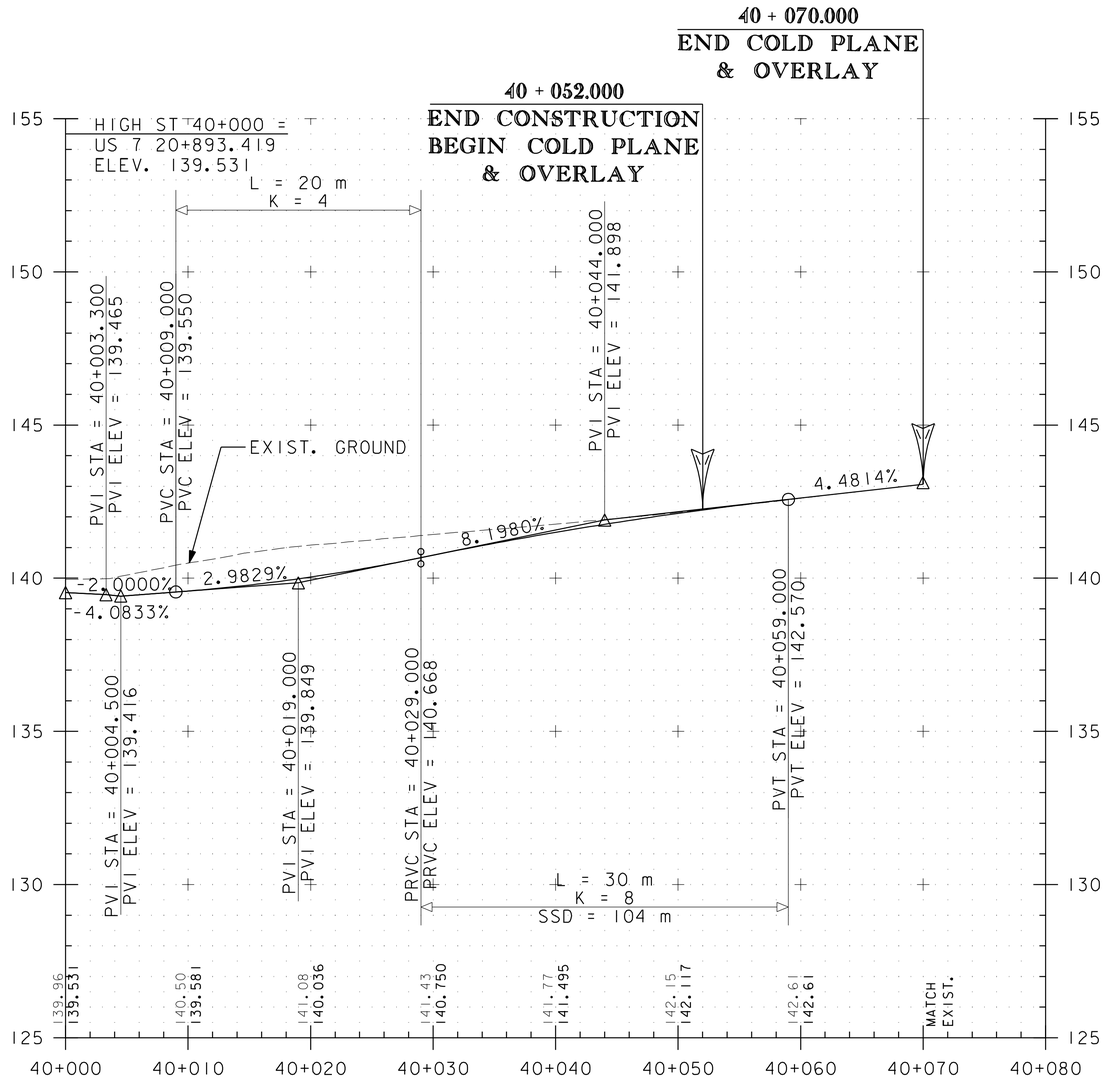


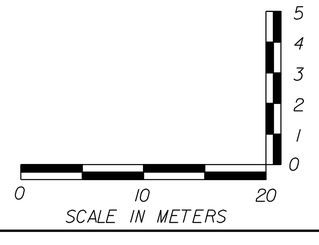


PROFILE - US 7

PROJECT NAME:	BRANDON
PROJECT NUMBER:	NH 019-3(496)
FILE NAME: zb0008s6-pro.dgn	PLOT DATE: 2/23/2017
PROJECT LEADER: C. BEAN	DRAWN BY: N. LEMAY
DESIGNED BY: D. MUNRO	CHECKED BY: P. SHEDD
	SHEET 139 OF 601

CLD 02-0448 MODEL:13





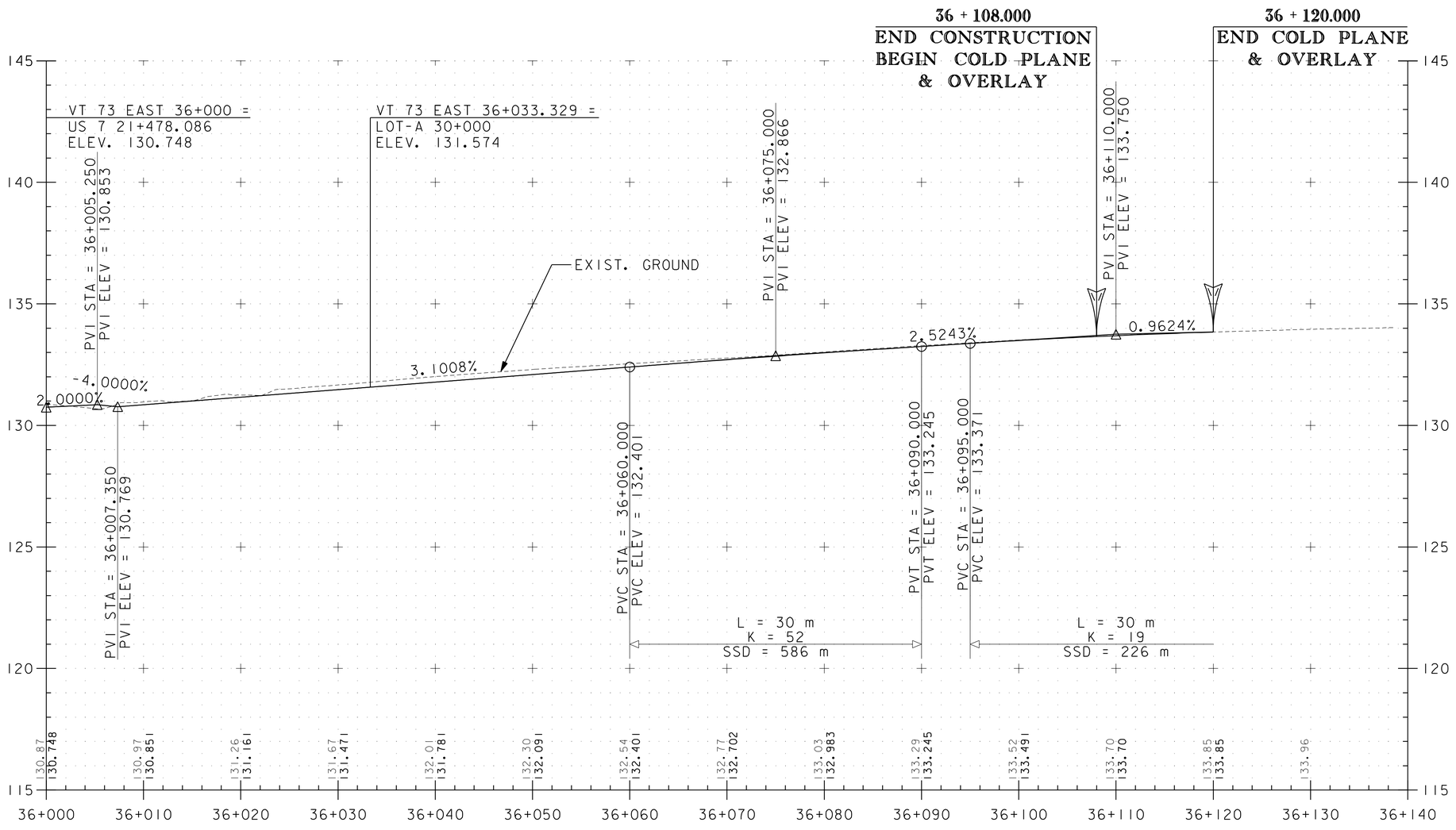
PROFILE - HIGH STREET

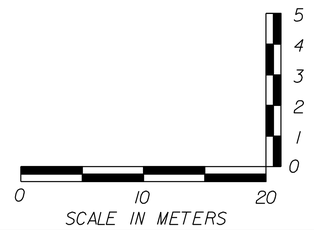
PROJECT NAME:	BRANDON
PROJECT NUMBER:	NH 019-3(496)

FILE NAME: zb008s6-pro.dgn	PLOT DATE: 2/23/2017
PROJECT LEADER: C. BEAN	DRAWN BY: N. LEMAY
DESIGNED BY: D. MUNRO	CHECKED BY: P. SHEDD
	SHEET 140 OF 601

CLD 02-0448 MODEL: high

Metric





PROFILE - VT 73 EAST

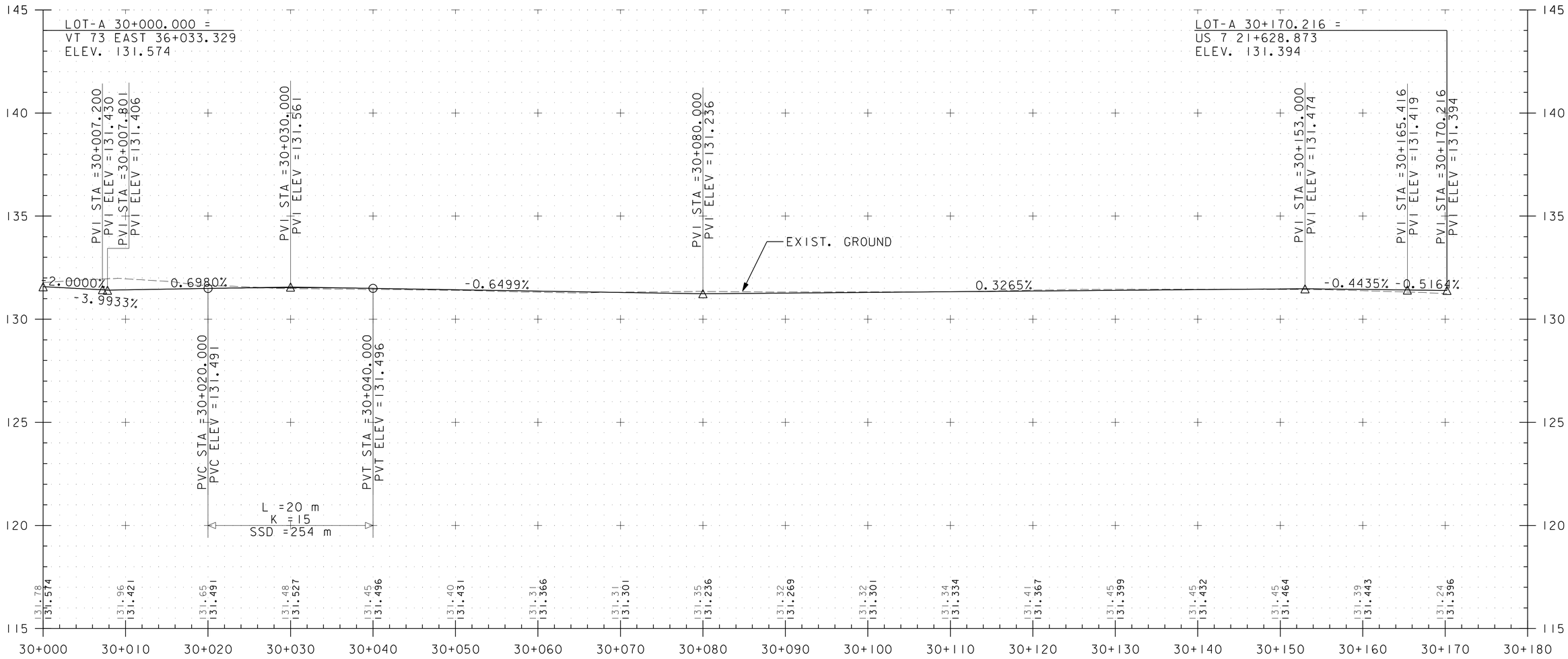
PROJECT NAME: BRANDON
PROJECT NUMBER: NH 019-3(496)

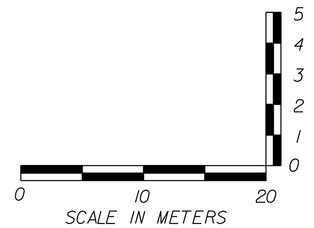
FILE NAME: zb008s6-pro.dgn
PROJECT LEADER: C. BEAN
DESIGNED BY: D. MUNRO

PLOT DATE: 2/23/2017
DRAWN BY: N. LEMAY
CHECKED BY: P. SHEDD
SHEET 141 OF 601

CLD 02-0448 MODEL: vt73e

ISSUED FOR CONSTRUCTION





PROFILE - PARKING LOT-A

PROJECT NAME: BRANDON
PROJECT NUMBER: NH 019-3(496)

FILE NAME: zb008s6-pro.dgn
PROJECT LEADER: C. BEAN
DESIGNED BY: D. MUNRO

PLOT DATE: 2/23/2017
DRAWN BY: N. LEMAY
CHECKED BY: P. SHEDD
SHEET 142 OF 601

CLD 02-0448 MODEL: lota

ISSUED FOR CONSTRUCTION

VAOT Metric

34 + 092.000
END COLD PLANE
& OVERLAY

34 + 065.000
END CONSTRUCTION
BEGIN COLD PLANE
& OVERLAY

CARVER ST 34+000 =
US 7 21+562.717
ELEV. 130.370

L = 20 m
K = 26

PVI STA = 34+005.250
PVI ELEV = 130.475

PVI STA = 34+009.750
PVI ELEV = 130.295

PVC STA = 34+055.000
PVC ELEV = 129.492

PVT STA = 34+075.000
PVT ELEV = 129.215

2.0000%
-4.0000%
-1.7745%
-1.0000%

EXIST. GROUND

PVI STA = 34+065.000
PVI ELEV = 129.315

145
140
135
130
125
120
115

130.20 130.370
130.28 130.291
130.13 130.113
129.94 129.936
129.77 129.758
129.55 129.581
129.40 129.408
129.27 129.27
129.17 129.17
128.99 129.17
128.82

34+000 34+010 34+020 34+030 34+040 34+050 34+060 34+070 34+080 34+090 34+100

37 + 070.000
LIMIT OF WORK

37 + 053.000
END CONSTRUCTION
BEGIN COLD PLANE
& OVERLAY

ROSSITER ST 37+000 =
CARVER ST 34+202.942
ELEV. 126.798

L = 32 m
K = 10

PVI STA = 37+004.600
PVI ELEV = 126.614

PVC STA = 37+019.000
PVC ELEV = 125.462

PVT STA = 37+051.000
PVT ELEV = 123.408

-4.0000%
-8.0000%
-4.8429%

PVI STA = 37+035.000
PVI ELEV = 124.182

145
140
135
130
125
120
115

126.80 126.798
126.19 126.182
125.33 125.383
124.57 124.642
124.02 124.000
123.49 123.457
122.95 122.972
122.49 122.487
122.09

37+000 37+010 37+020 37+030 37+040 37+050 37+060 37+070 37+080

0 10 20
SCALE IN METERS
5 4 3 2 1 0

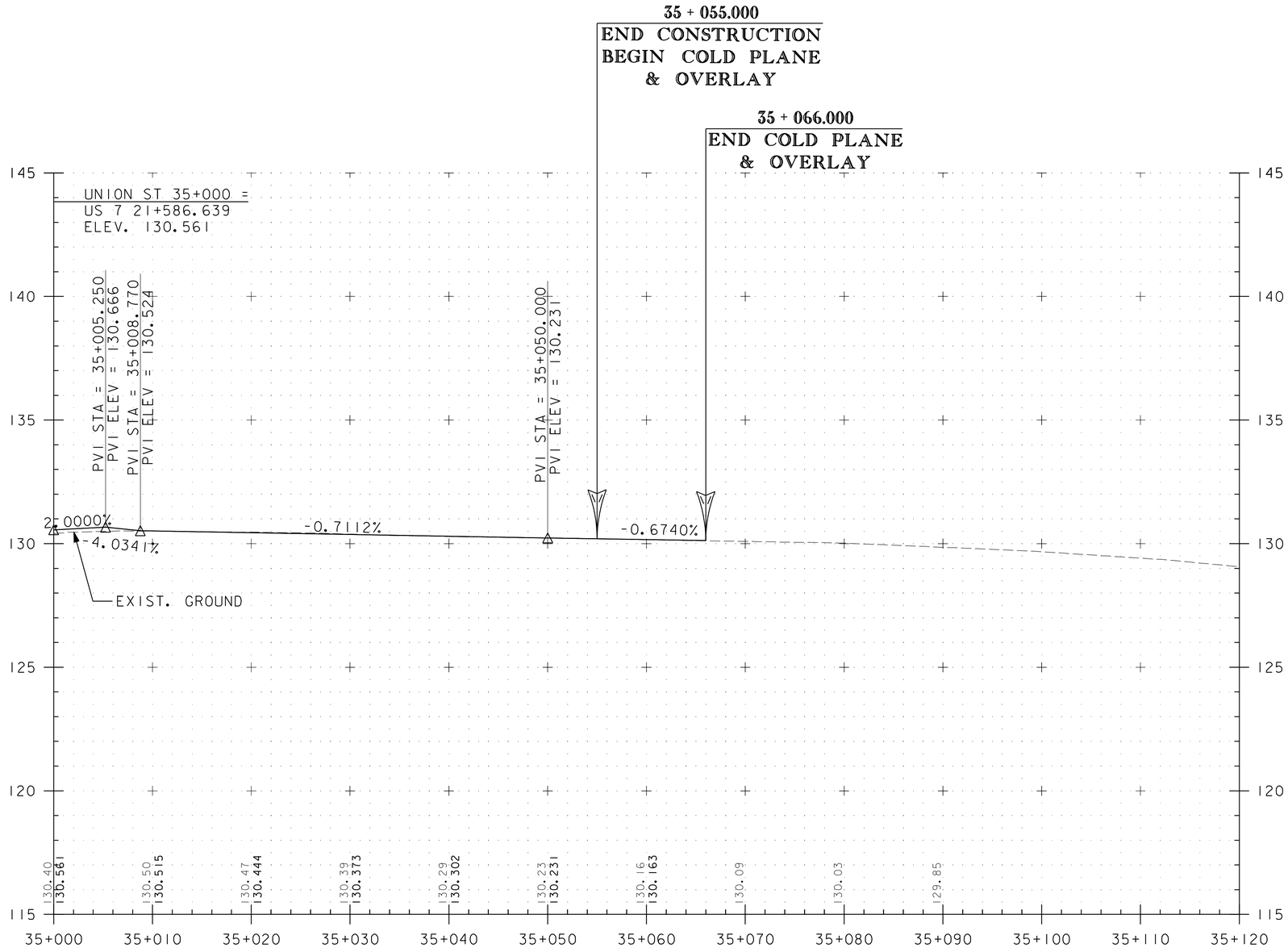
PROFILE - CARVER STREET & ROSSITER STREET

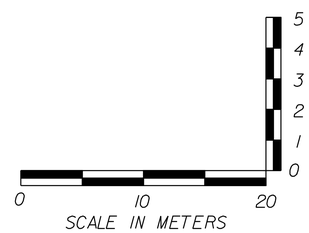
PROJECT NAME: BRANDON
PROJECT NUMBER: NH 019-3(496)

FILE NAME: zb008s6-pro.dgn
PROJECT LEADER: C. BEAN
DESIGNED BY: D. MUNRO

PLOT DATE: 2/23/2017
DRAWN BY: N. LEMAY
CHECKED BY: P. SHEDD
SHEET 143 OF 601

CLD 02-0448 MODEL: carver





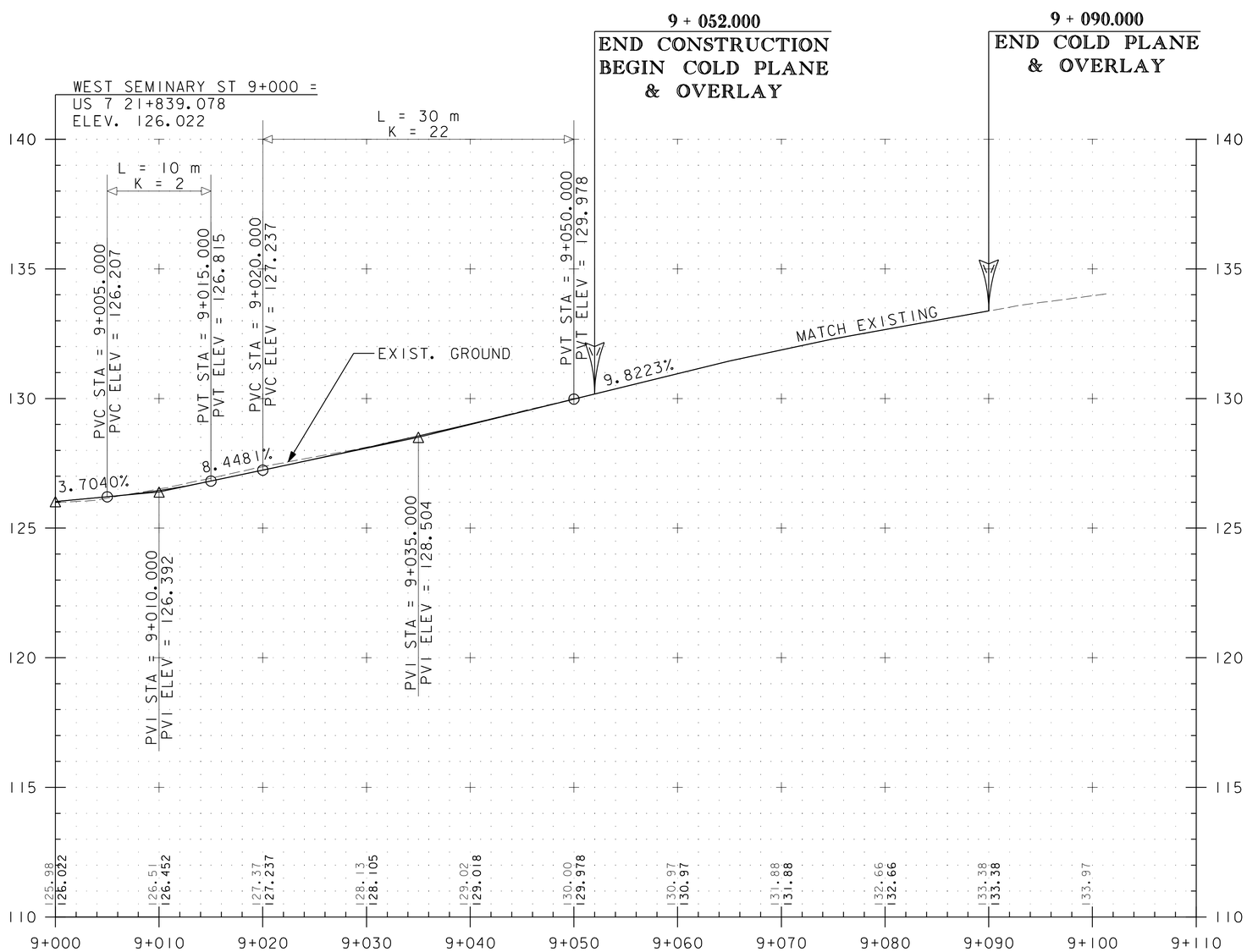
PROFILE - UNION STREET

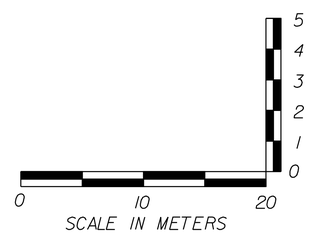
PROJECT NAME: BRANDON
PROJECT NUMBER: NH 019-3(496)

FILE NAME: zb008s6-pro.dgn
PROJECT LEADER: C. BEAN
DESIGNED BY: D. MUNRO

PLOT DATE: 2/23/2017
DRAWN BY: N. LEMAY
CHECKED BY: P. SHEDD
SHEET 144 OF 601

CLD 02-0448 MODEL: union





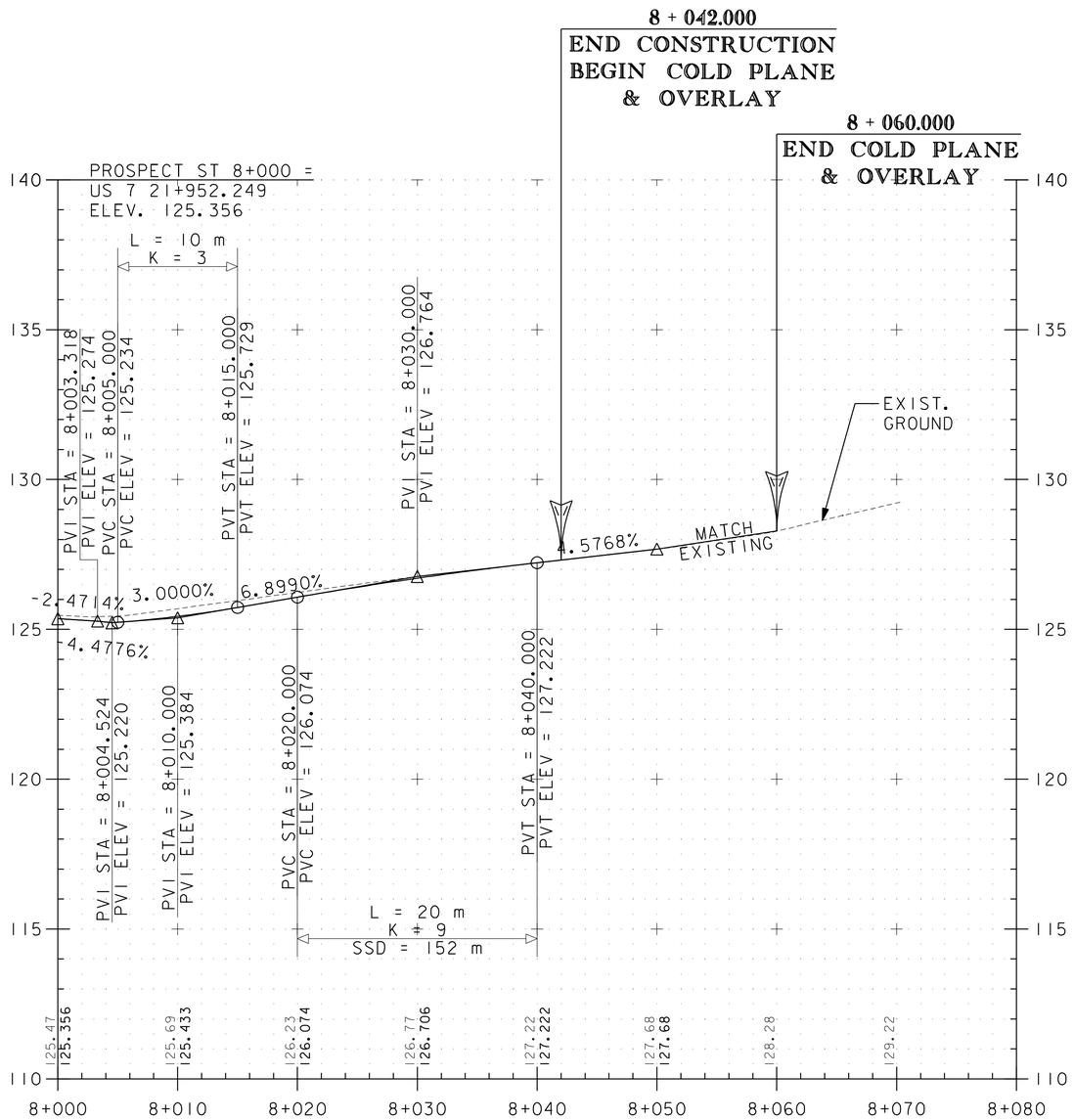
PROFILE - WEST SEMINARY STREET

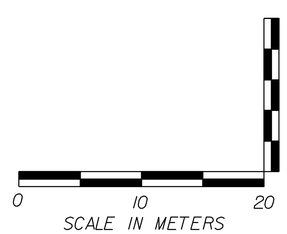
PROJECT NAME: BRANDON
PROJECT NUMBER: NH 019-3(496)

FILE NAME: zb008s6-pro.dgn
PROJECT LEADER: C. BEAN
DESIGNED BY: D. MUNRO

PLOT DATE: 2/23/2017
DRAWN BY: N. LEMAY
CHECKED BY: P. SHEDD
SHEET 145 OF 601

CLD 02-0448 MODEL: seminary





PROFILE - PROSPECT STREET

PROJECT NAME: BRANDON
PROJECT NUMBER: NH 019-3(496)

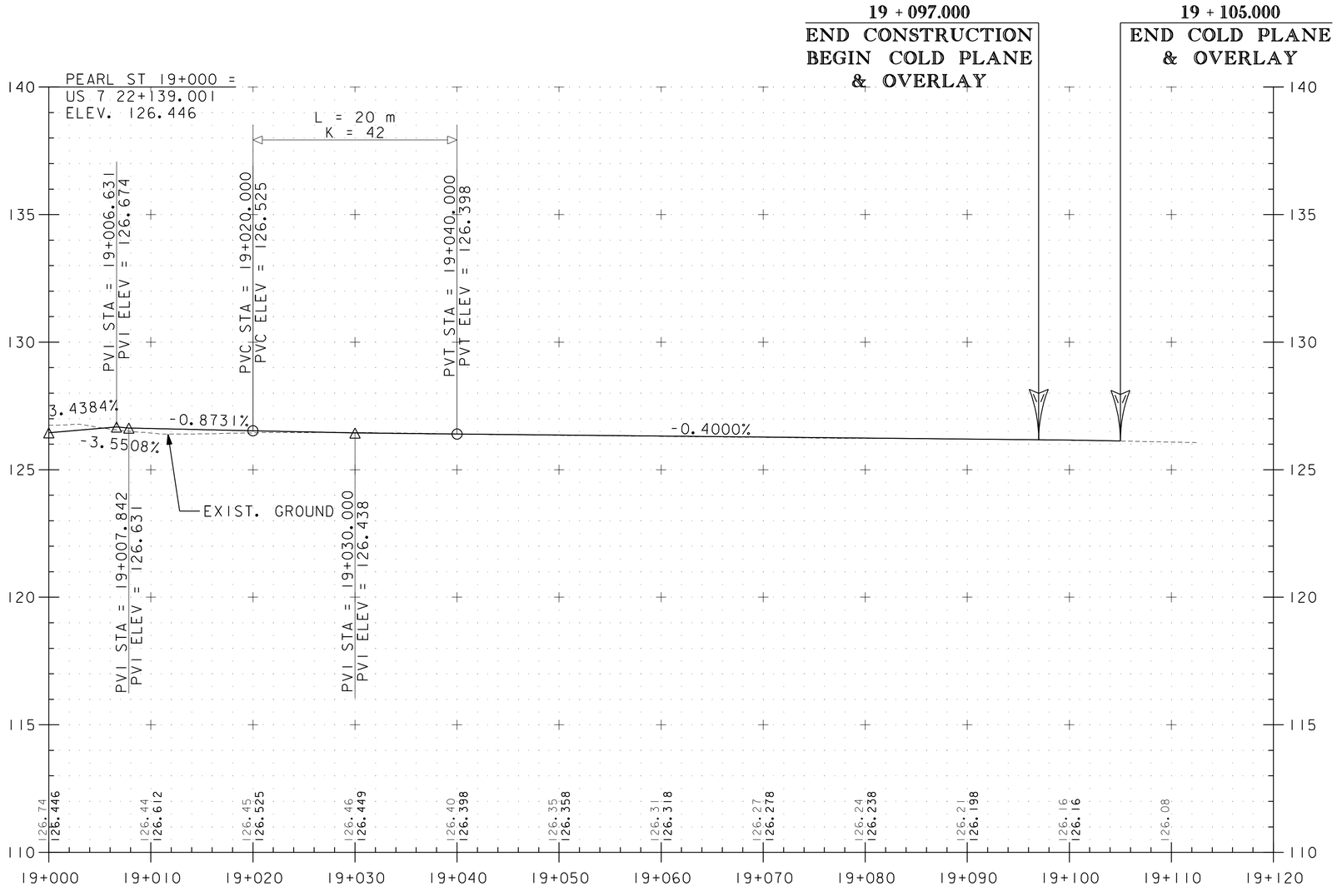
FILE NAME: zb0008s6-pro.dgn
PROJECT LEADER: C. BEAN
DESIGNED BY: D. MUNRO

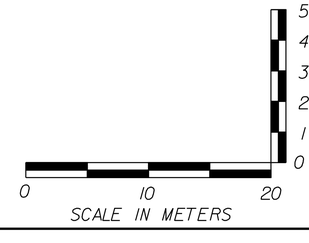
PLOT DATE: 2/23/2017
DRAWN BY: N. LEMAY
CHECKED BY: P. SHEDD
SHEET 146 OF 601

CLD 02-0448 MODEL: prospect

ISSUED FOR CONSTRUCTION

Metric





PROFILE - PEARL STREET

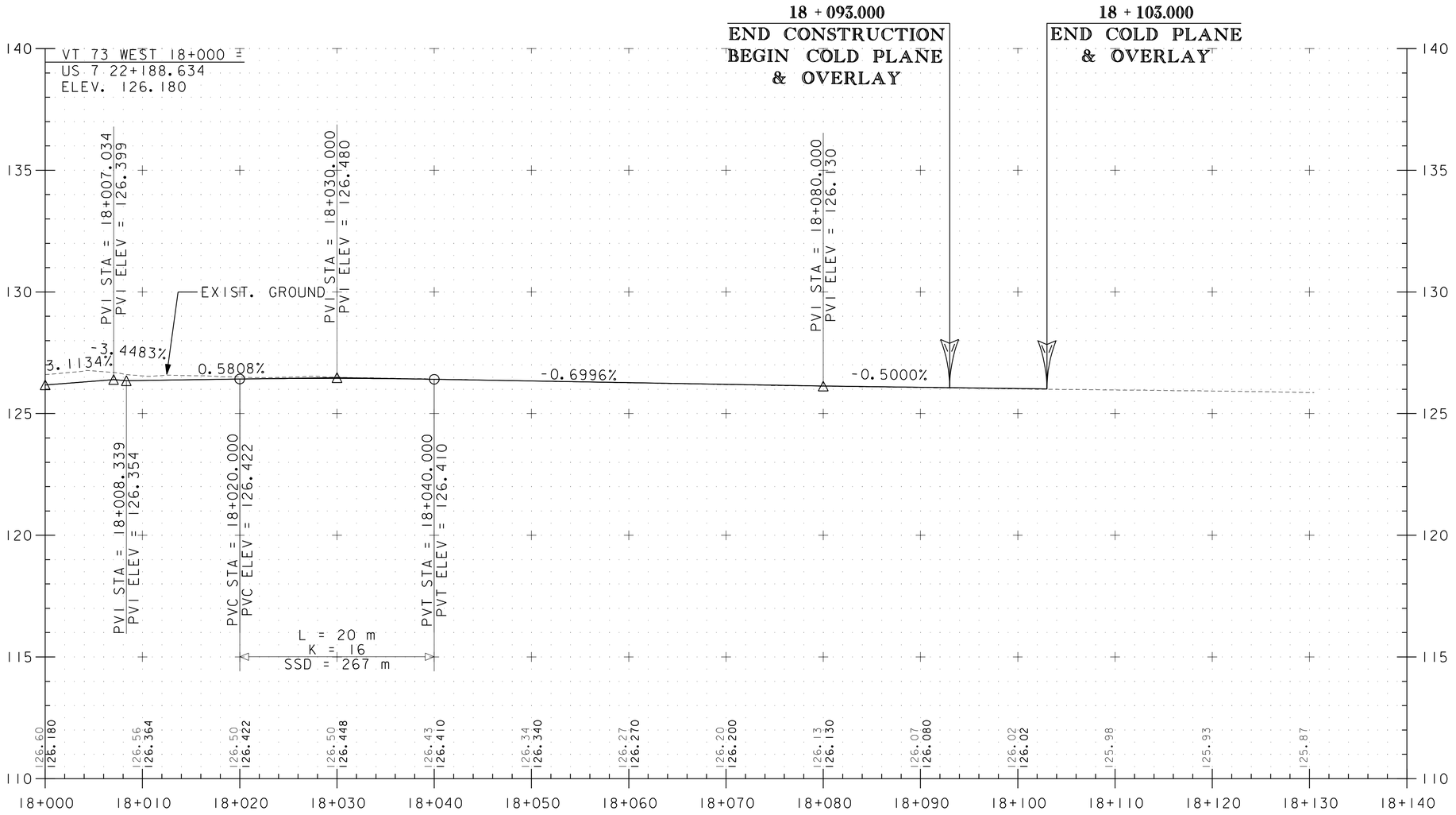
PROJECT NAME: BRANDON
PROJECT NUMBER: NH 019-3(496)

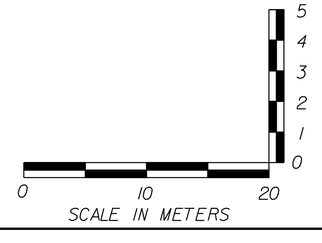
FILE NAME: zb008s6-pro.dgn
PROJECT LEADER: C. BEAN
DESIGNED BY: D. MUNRO

PLOT DATE: 2/23/2017
DRAWN BY: N. LEMAY
CHECKED BY: P. SHEDD
SHEET 147 OF 601

CLD 02-0448 MODEL: pearl

ISSUED FOR CONSTRUCTION





PROFILE - VT 73 WEST

PROJECT NAME: BRANDON
PROJECT NUMBER: NH 019-3(496)

FILE NAME: zb008s6-pro.dgn
PROJECT LEADER: C. BEAN
DESIGNED BY: D. MUNRO

PLOT DATE: 2/23/2017
DRAWN BY: N. LEMAY
CHECKED BY: P. SHEDD
SHEET 148 OF 601

CLD 02-0448 MODEL: vt73w

ISSUED FOR CONSTRUCTION

VAOT Metric

BEGIN SIDEWALK 0+000 =
US 7 21+120.431, RT 4.65 m
ELEV = 132.373

PVI STA = 0+013.550
PVI ELEV = 132.769
PVI STA = 0+017.149
PVI ELEV = 132.769
PVI STA = 0+025.017
PVI ELEV = 133.162
PVI STA = 0+063.400
PVI ELEV = 133.523
PVI STA = 0+067.040
PVI ELEV = 133.341
PVI STA = 0+070.645
PVI ELEV = 133.370
PVI STA = 0+079.735
PVI ELEV = 133.440
PVI STA = 0+091.736
PVI ELEV = 133.536
PVI STA = 0+095.514
PVI ELEV = 133.725
PVI STA = 0+099.770
PVI ELEV = 133.749
PVI STA = 0+102.770
PVI ELEV = 133.618
PVI STA = 0+106.370
PVI ELEV = 133.618
PVI STA = 0+109.370
PVI ELEV = 133.750
PVI STA = 0+120.820
PVI ELEV = 133.654
PVI STA = 0+126.220
PVI ELEV = 133.654
PVI STA = 0+147.116
PVI ELEV = 133.692
PVI STA = 0+152.530
PVI ELEV = 133.421
PVI STA = 0+156.130
PVI ELEV = 133.421
PVI STA = 0+159.911
PVI ELEV = 133.610
PVI STA = 0+174.990
PVI ELEV = 133.553

2.9225% 5.0000% 0.9389% -5.0000% 0.7744% 0.8000% 5.0000% -4.3712% 4.3852% -0.8337% 0.0000% 0.1814% -5.0000% 5.0000% -0.3820% -8.3000%
0.0000% 0.8000% 0.5693% 0.0000% 0.0000%

EXIST. GROUND

END SIDEWALK 0+340.954 =
US 7 21+460.717, RT 7.98 m
ELEV = 130.870

PVI STA = 0+180.996
PVI ELEV = 133.054
PVI STA = 0+186.410
PVI ELEV = 132.946
PVI STA = 0+189.456
PVI ELEV = 133.098
PVI STA = 0+215.000
PVI ELEV = 132.480
PVI STA = 0+223.300
PVI ELEV = 132.130
PVI STA = 0+226.880
PVI ELEV = 132.130
PVI STA = 0+242.000
PVI ELEV = 131.815
PVI STA = 0+277.500
PVI ELEV = 131.252
PVI STA = 0+281.500
PVI ELEV = 131.450
PVI STA = 0+325.000
PVI ELEV = 131.198

5.0000% -2.4214% -4.2141% -2.0813% -1.5876% 4.9574% -0.5795% -2.0553%
-2.0000% 0.0000%

EXIST. GROUND

SCALE IN METERS

PROFILE - SIDEWALK 'B-RT'
(US 7 STA 21+120 - 21+461)

PROJECT NAME: BRANDON
PROJECT NUMBER: NH 019-3(496)

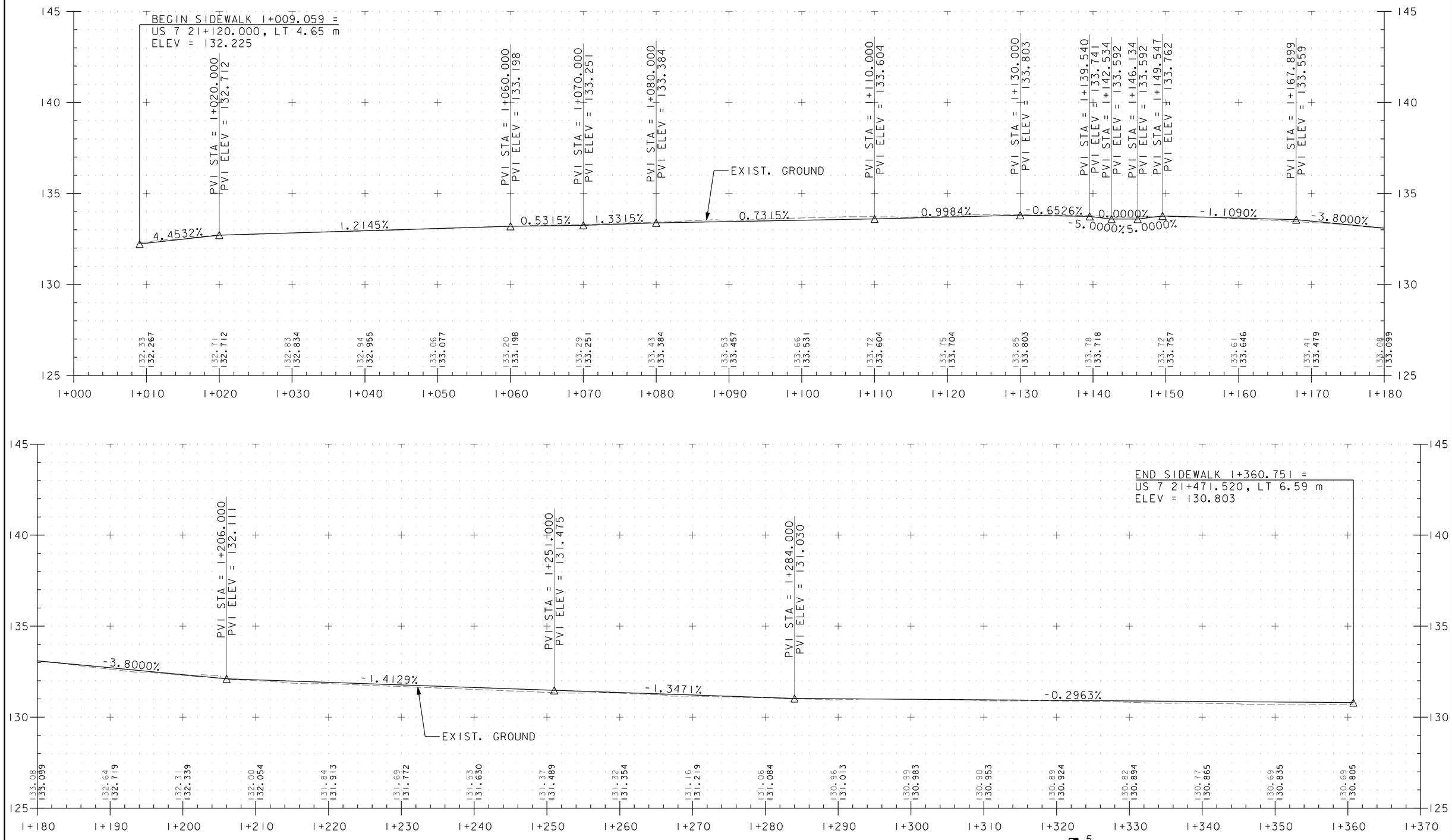
FILE NAME: zb008s6-pro.dgn
PROJECT LEADER: C. BEAN
DESIGNED BY: D. MUNRO

PLOT DATE: 2/23/2017
DRAWN BY: M. HALEY
CHECKED BY: P. SHEDD
SHEET 149 OF 601

CLD 02-0448 MODEL: swlk-brt

ISSUED FOR CONSTRUCTION

VAOT Metric

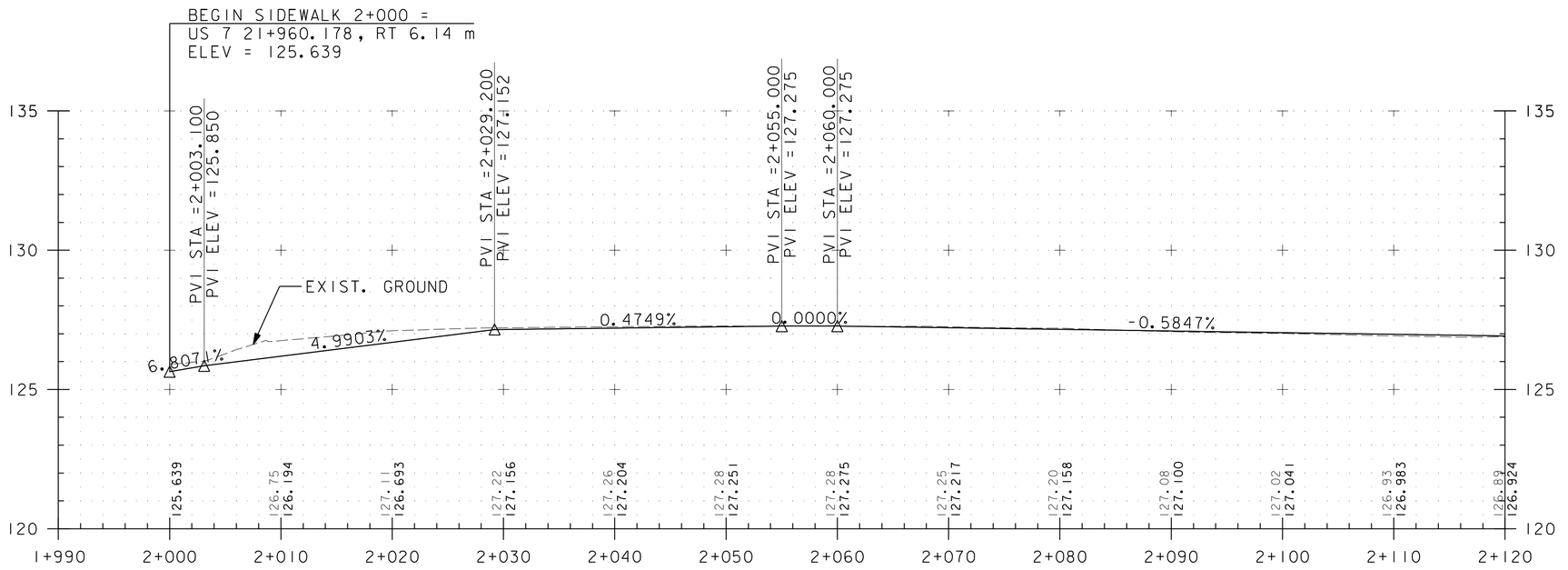


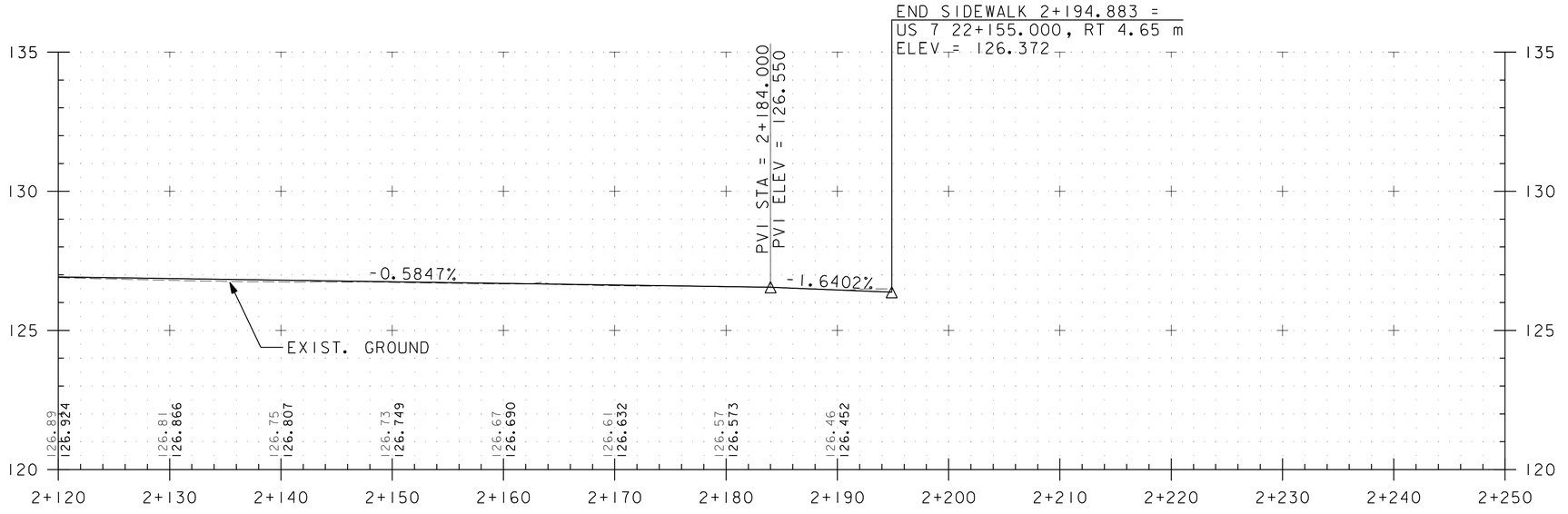
PROFILE - SIDEWALK 'B-LT'
(US 7 STA 21+120 - 21+471)

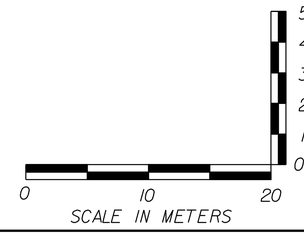
PROJECT NAME:	BRANDON
PROJECT NUMBER:	NH 019-3(496)
FILE NAME: zb008s6-pro.dgn	PLOT DATE: 2/23/2017
PROJECT LEADER: C. BEAN	DRAWN BY: M. HALEY
DESIGNED BY: D. MUNRO	CHECKED BY: P. SHEDD
	SHEET 150 OF 601

CLD 02-0448 MODEL: swlk-blt

ISSUED FOR CONSTRUCTION







PROFILE - SIDEWALK 'D-RT'
(US 7 STA 21+960 - 22+155)

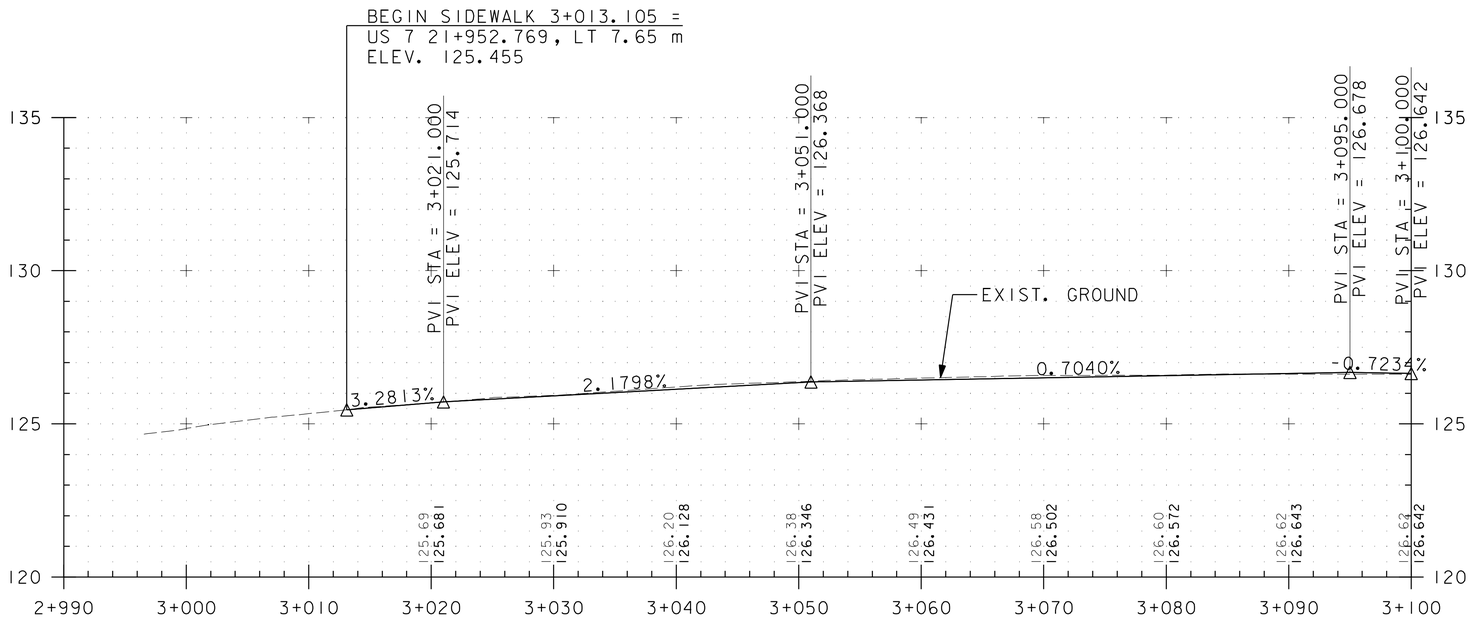
PROJECT NAME: BRANDON
PROJECT NUMBER: NH 019-3(496)

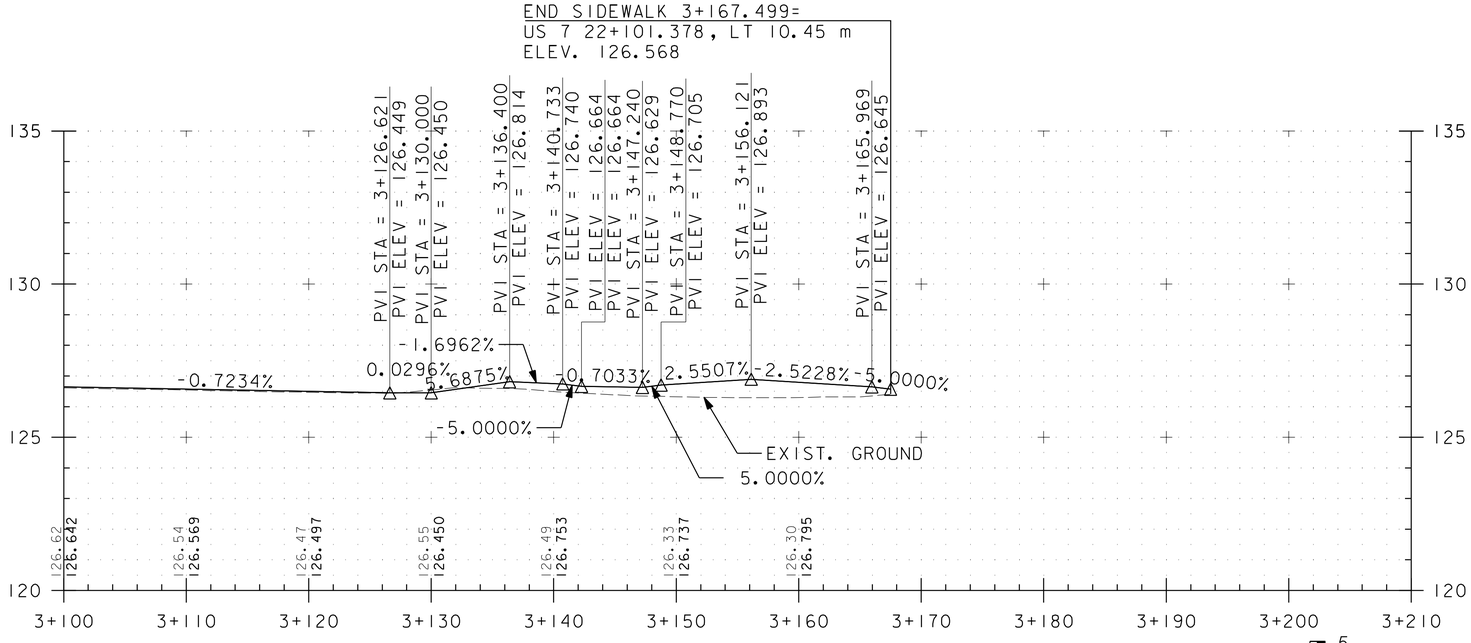
FILE NAME: zb008s6-pro.dgn
PROJECT LEADER: C. BEAN
DESIGNED BY: D. MUNRO

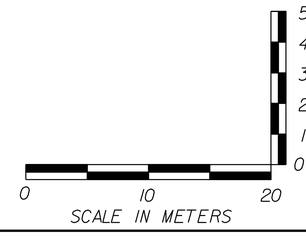
PLOT DATE: 2/23/2017
DRAWN BY: M. HALEY
CHECKED BY: P. SHEDD
SHEET 151 OF 601

CLD 02-0448 MODEL: swlk-drt

ISSUED FOR CONSTRUCTION







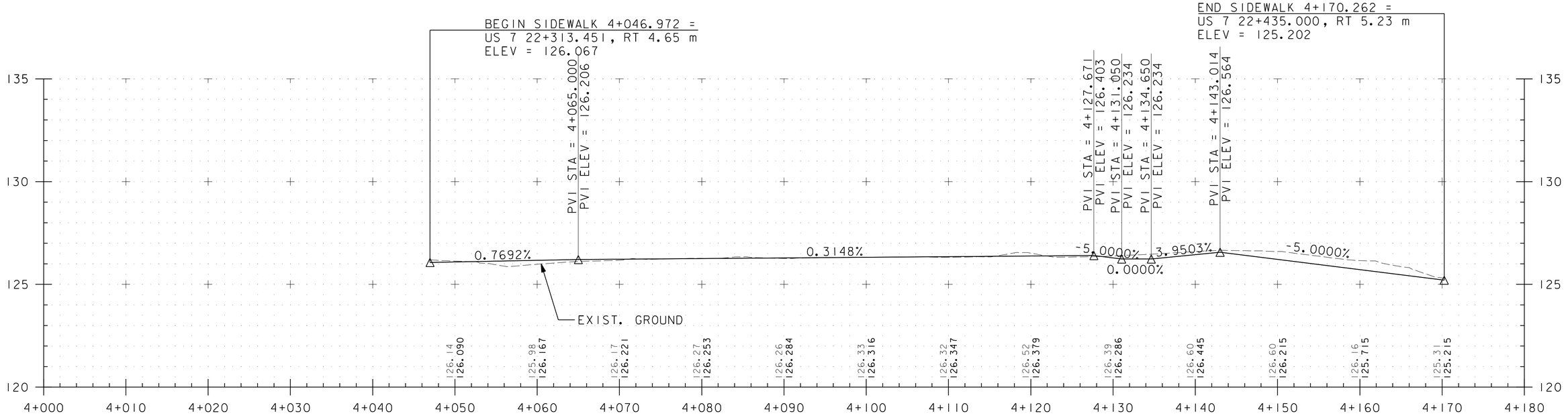
PROFILE - SIDEWALK 'D-LT'
(US 7 STA 21+953 - 22+102)

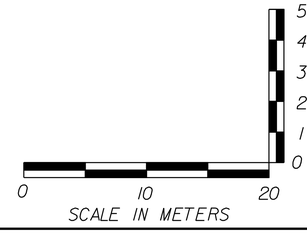
PROJECT NAME:	BRANDON
PROJECT NUMBER:	NH 019-3(496)

FILE NAME: zb008s6-pro.dgn	PLOT DATE: 2/23/2017
PROJECT LEADER: C. BEAN	DRAWN BY: M. HALEY
DESIGNED BY: D. MUNRO	CHECKED BY: P. SHEDD
	SHEET 152 OF 601

CLD 02-0448 MODEL: swlk-dlt

ISSUED FOR CONSTRUCTION





PROFILE - SIDEWALK 'F-RT'
(US 7 STA 22+313 - 22+435)

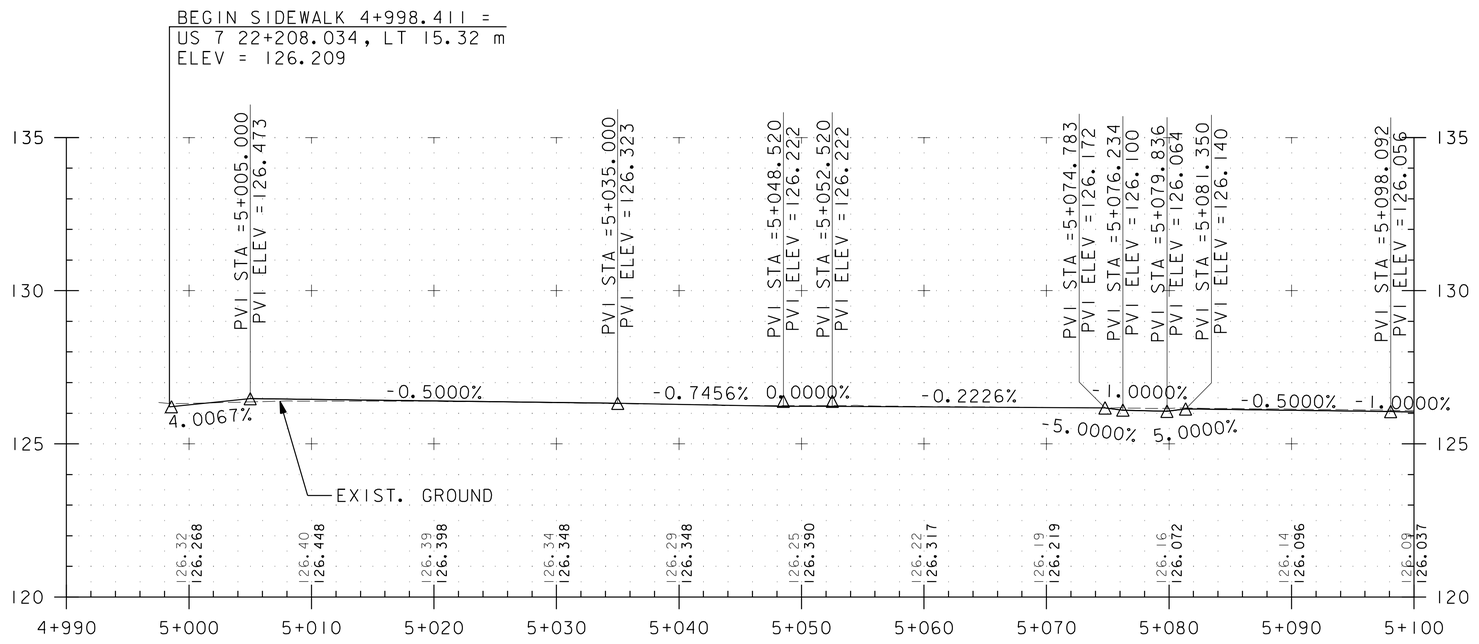
PROJECT NAME: BRANDON
PROJECT NUMBER: NH 019-3(496)

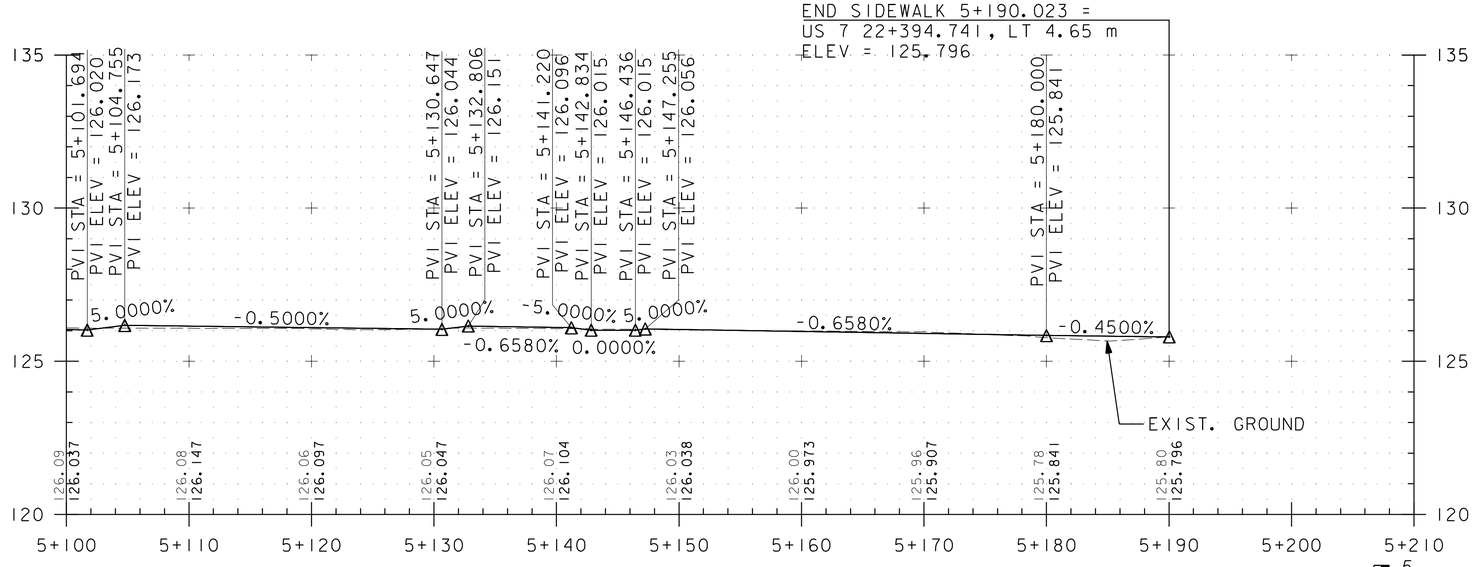
FILE NAME: zb008s6-pro.dgn
PROJECT LEADER: C. BEAN
DESIGNED BY: D. MUNRO

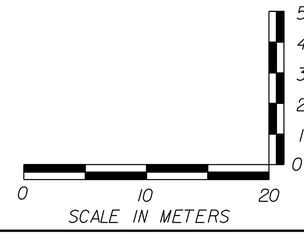
PLOT DATE: 2/23/2017
DRAWN BY: M. HALEY
CHECKED BY: P. SHEDD
SHEET 153 OF 601

CLD 02-0448 MODEL: swlk-frt

ISSUED FOR CONSTRUCTION







PROFILE - SIDEWALK 'F-LT'
(US 7 STA 22+208 - 22+395)

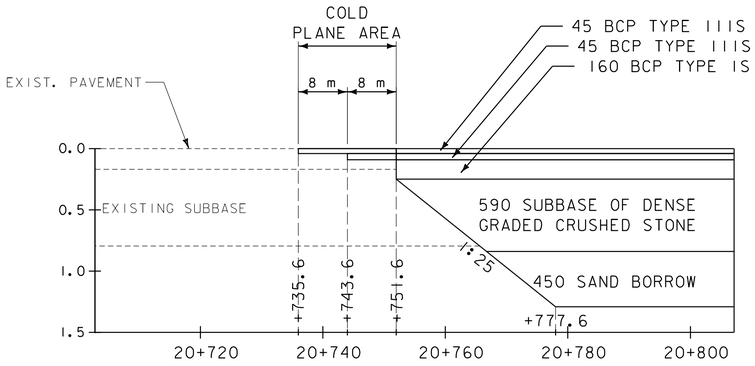
PROJECT NAME:	BRANDON
PROJECT NUMBER:	NH 019-3(496)

FILE NAME: zb008s6-pro.dgn	PLOT DATE: 2/23/2017
PROJECT LEADER: C. BEAN	DRAWN BY: M. HALEY
DESIGNED BY: D. MUNRO	CHECKED BY: P. SHEDD
	SHEET 154 OF 601

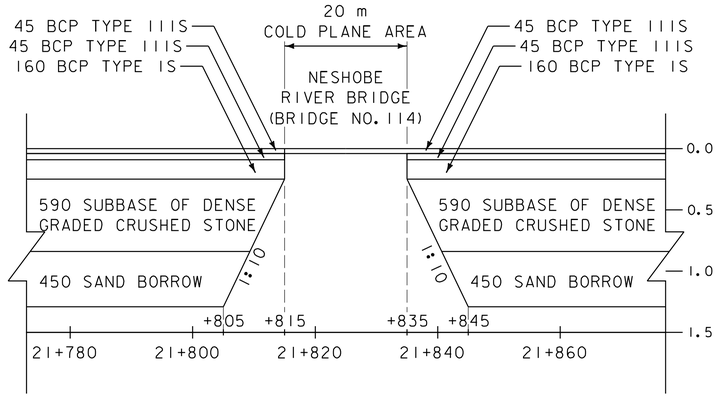
CLD 02-0448 MODEL: swlk-flt

ISSUED FOR CONSTRUCTION

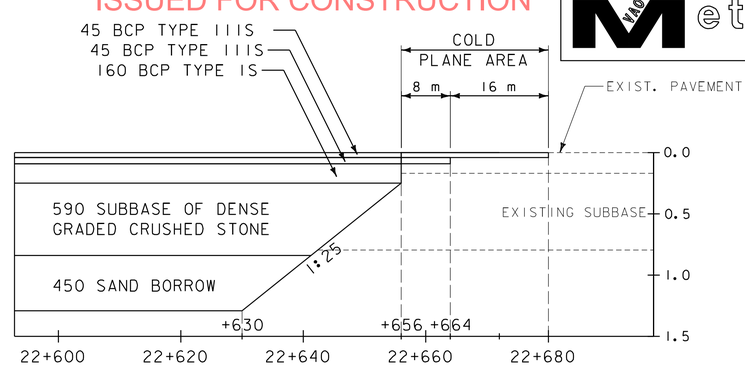
VAOT Metric



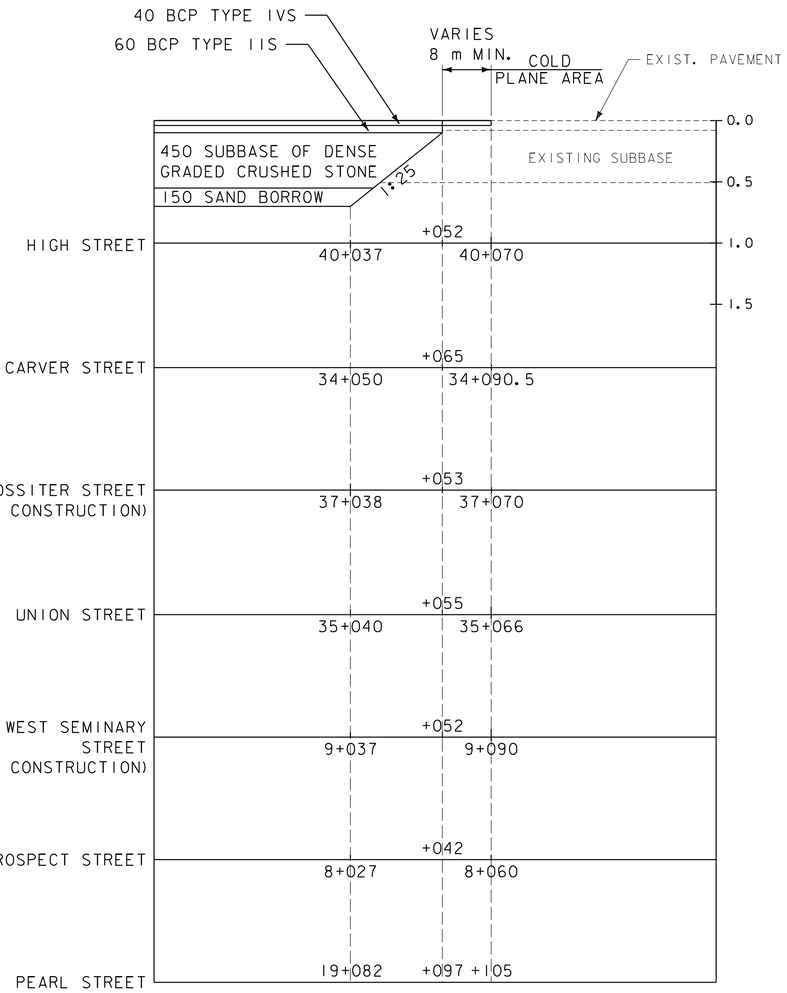
US 7 SOUTH APPROACH



US 7 – NESHOBE RIVER BRIDGE (BRIDGE NO. 114)

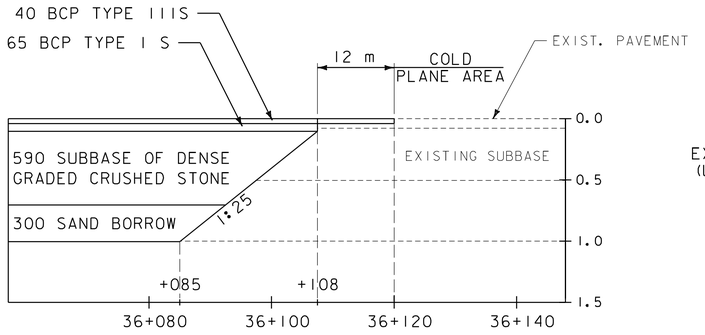


US 7 NORTH APPROACH

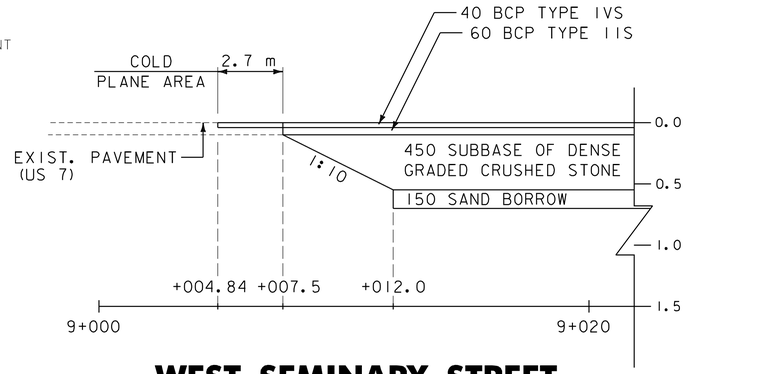


MINOR STREETS

(NOT TO SCALE)

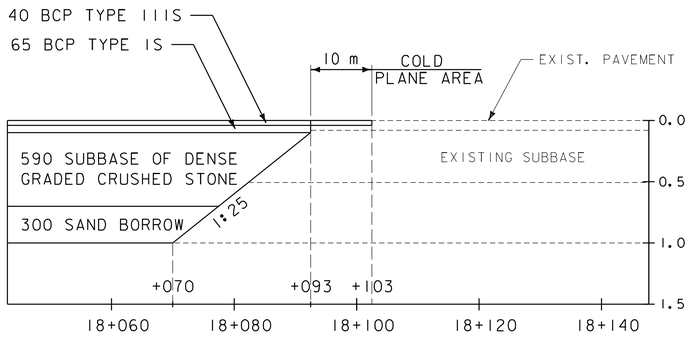


VT 73 EAST APPROACH

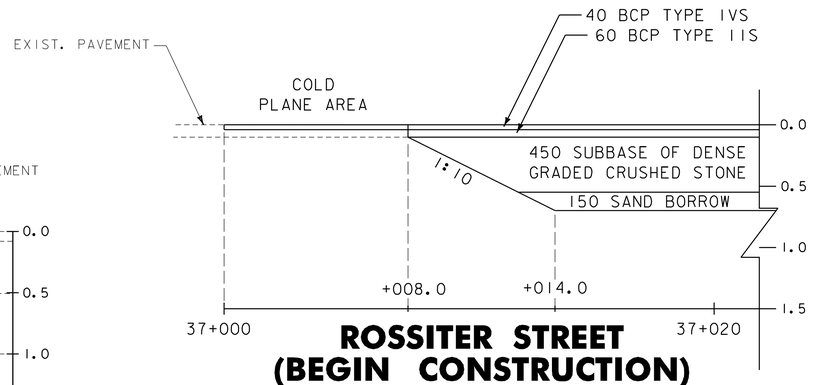


WEST SEMINARY STREET (BEGIN CONSTRUCTION)

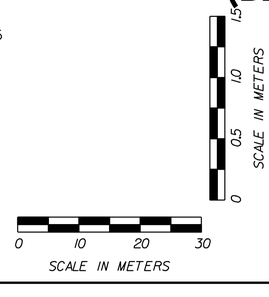
NOTE: WEST SEMINARY STREET IS A SKEWED INTERSECTION. COLD PLANE AREA SHOULD BE PARALLEL TO THE ALIGNMENT OF US 7.



VT 73 WEST APPROACH



ROSSITER STREET (BEGIN CONSTRUCTION)



MATERIAL TRANSITION DIAGRAMS

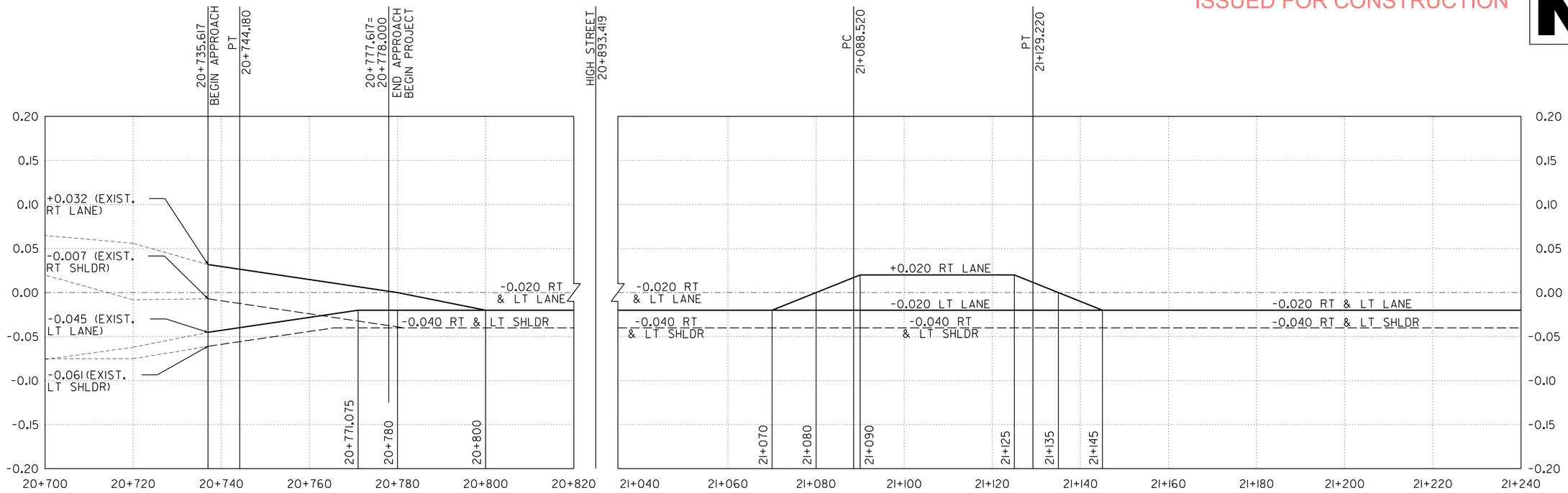
PROJECT NAME: BRANDON
PROJECT NUMBER: NH 019-3(496)

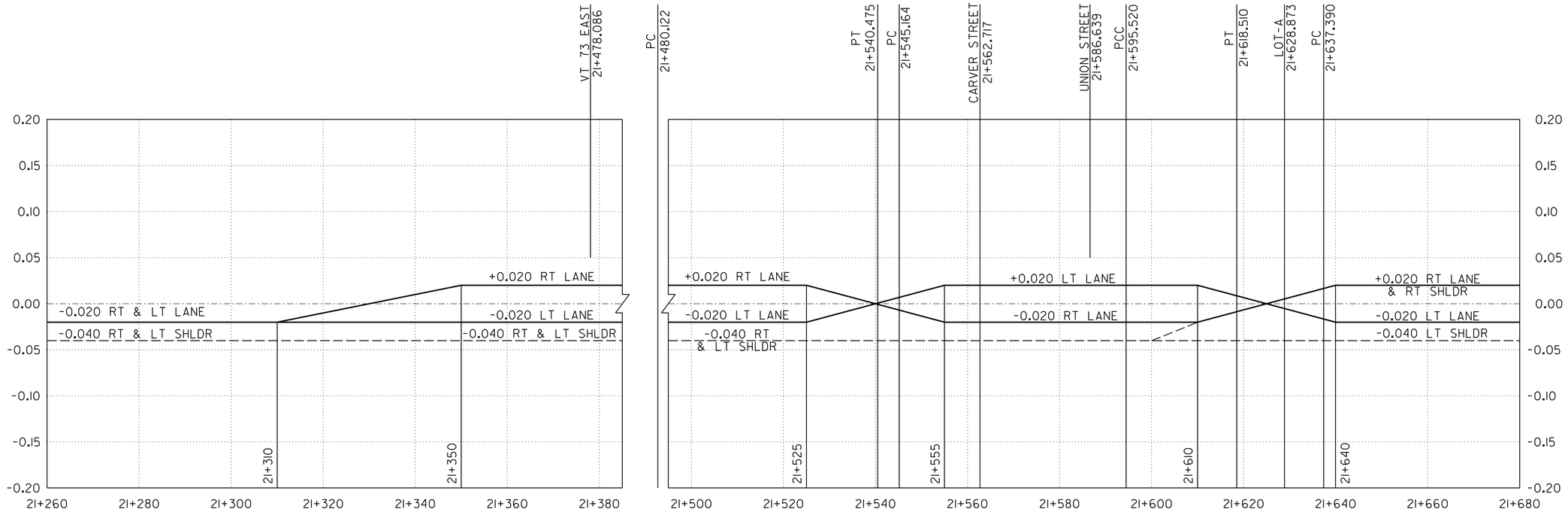
FILE NAME: zb008s6-dtrans.dgn
PROJECT LEADER: C. BEAN
DESIGNED BY: D. MUNRO

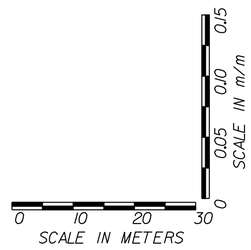
PLOT DATE: 2/23/2017
DRAWN BY: N. LEMAY
CHECKED BY: P. SHEDD
SHEET 155 OF 601

CLD 02-0448 MODEL:1

ISSUED FOR CONSTRUCTION







BANKING DIAGRAM - US 7

PROJECT NAME: BRANDON
PROJECT NUMBER: NH 019-3(496)

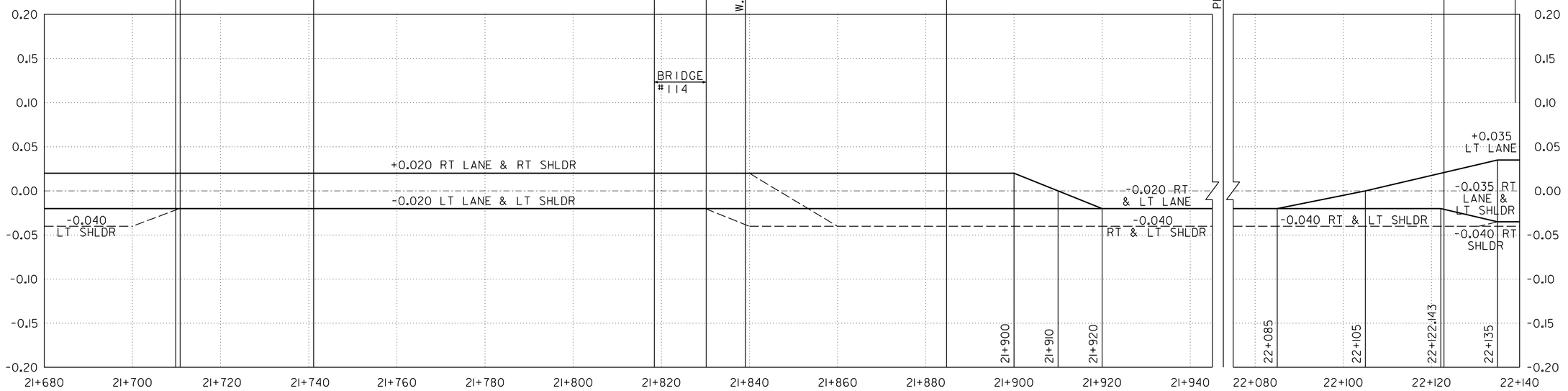
FILE NAME: zb008s6-bank.dgn
PROJECT LEADER: C. BEAN
DESIGNED BY: D. MUNRO

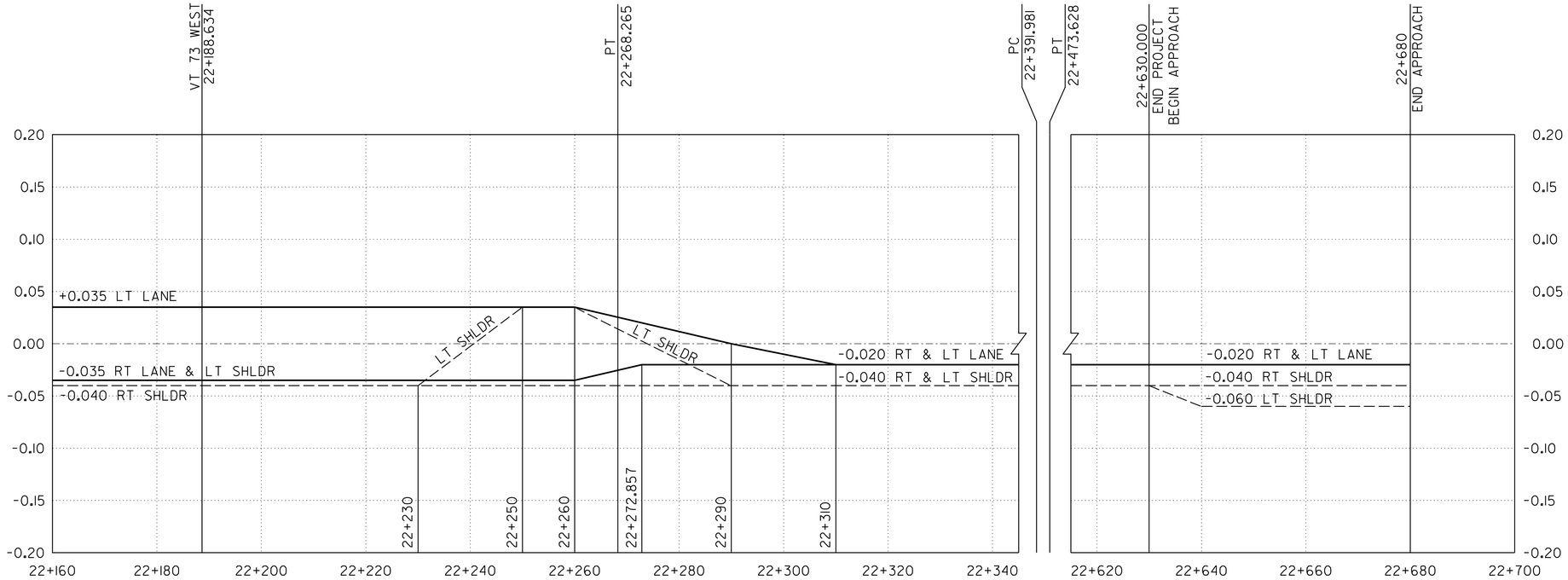
PLOT DATE: 2/23/2017
DRAWN BY: N. LEMAY
CHECKED BY: P. SHEDD
SHEET 156 OF 601

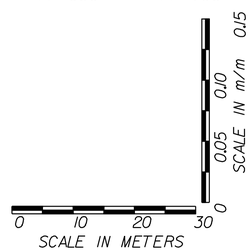
CLD 02-0448 MODEL: 1

ISSUED FOR CONSTRUCTION

Metric







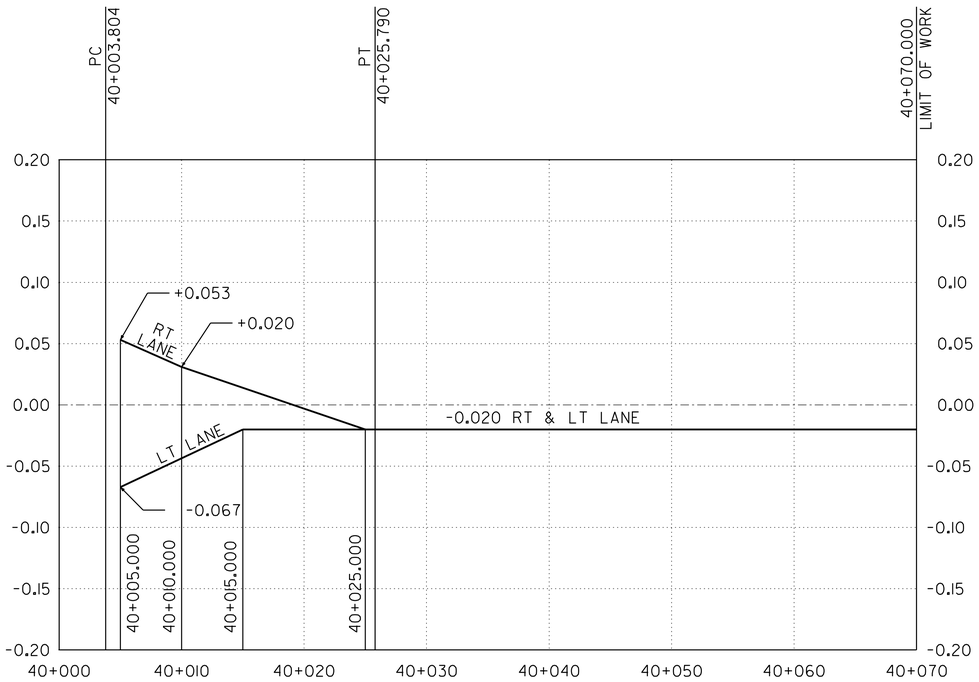
BANKING DIAGRAM - US 7

PROJECT NAME: BRANDON
PROJECT NUMBER: NH 019-3(496)

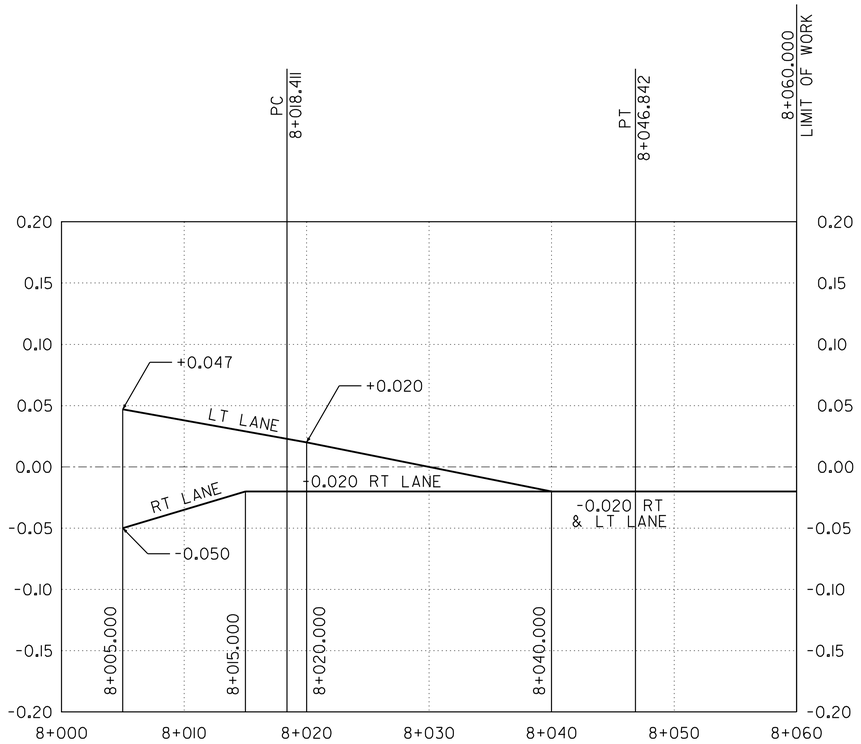
FILE NAME: zb008s6-bank.dgn
PROJECT LEADER: C. BEAN
DESIGNED BY: D. MUNRO

PLOT DATE: 2/23/2017
DRAWN BY: N. LEMAY
CHECKED BY: P. SHEDD
SHEET 157 OF 601

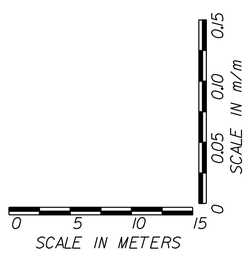
CLD 02-0448 MODEL: 2



HIGH STREET



PROSPECT STREET



BANKING DIAGRAM - MINOR STREETS

PROJECT NAME: BRANDON
PROJECT NUMBER: NH 019-3(496)

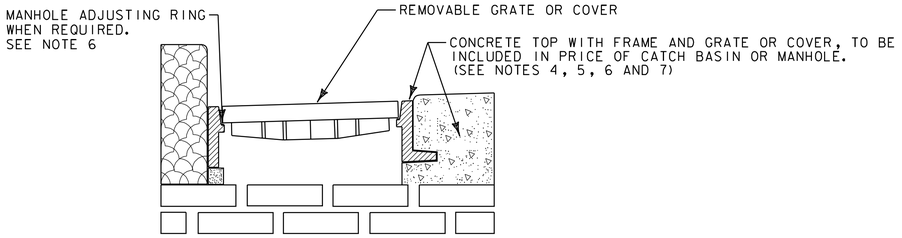
FILE NAME: zb008s6-bank.dgn
PROJECT LEADER: C. BEAN
DESIGNED BY: D. MUNRO

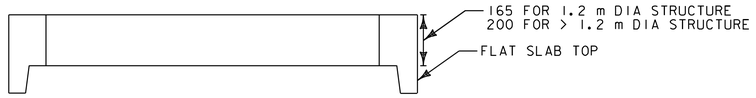
PLOT DATE: 2/23/2017
DRAWN BY: N. LEMAY
CHECKED BY: P. SHEDD
SHEET 158 OF 601

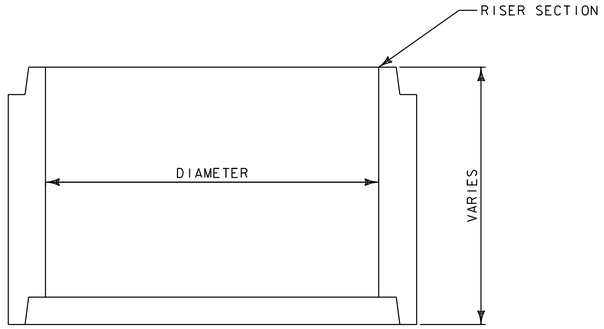
CLD 02-0448 MODEL: 3

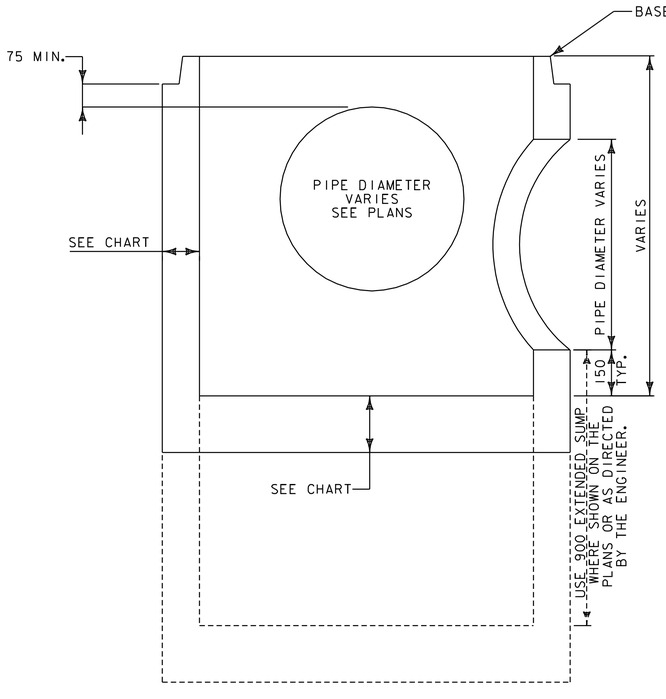
ISSUED FOR CONSTRUCTION

VAOT Metric

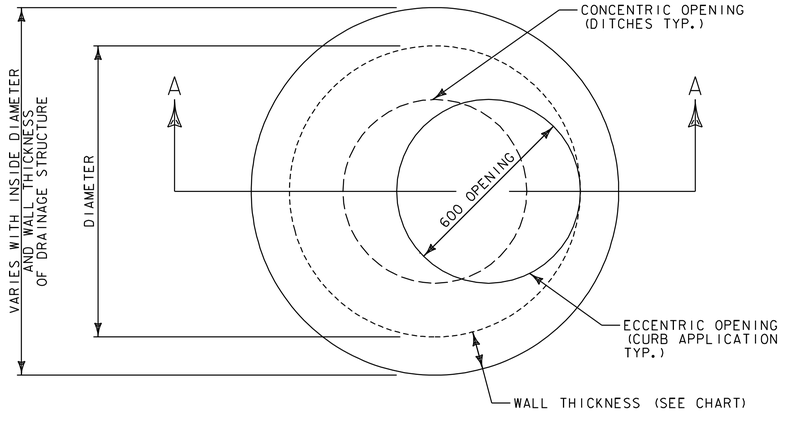




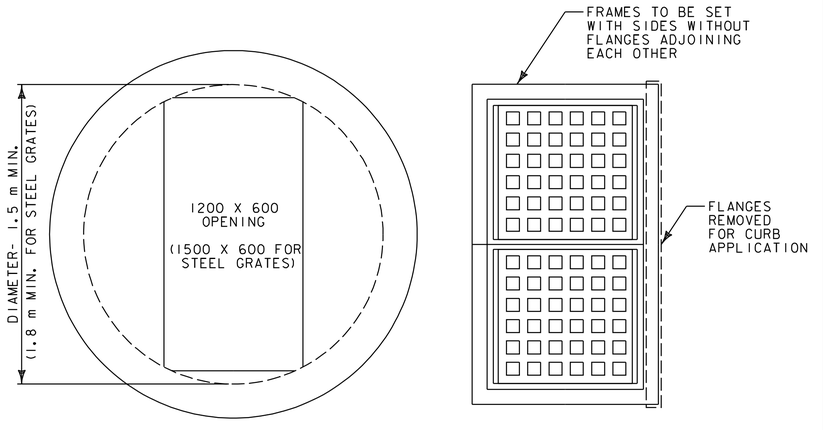




SECTION A-A



FLAT SLAB TOP



FLAT SLAB TOP (DOUBLE GRATE)

NOTES:

1. ALL CATCH BASINS AND MANHOLES SHALL BE CONSTRUCTED WITH PRECAST CONCRETE BASE SECTIONS, RISER SECTIONS AND FLAT SLAB TOPS CONFORMING TO SUBSECTION 705.04 OF THE VERMONT STANDARD SPECIFICATIONS FOR CONSTRUCTION AND SHALL BE REINFORCED TO MEET OR EXCEED M-18 LOADING.
2. PRECAST SECTIONS SHALL HAVE A TONGUE AND GROOVE JOINT 100 mm HIGH AT AN 11° ANGLE CENTERED IN THE WIDTH OF THE WALL AND SHALL BE ASSEMBLED USING AN APPROVED FLEXIBLE SEALANT IN JOINTS.
3. ALL STRUCTURES WITH MULTIPLE PIPES SHALL HAVE A MINIMUM OF 300 mm OF INSIDE SURFACE BETWEEN HOLES, NO MORE THAN 75% OF A HORIZONTAL CROSS SECTION SHALL BE HOLES, AND THERE SHALL BE NO HOLES CLOSER THAN 75 mm TO JOINTS.
4. GRATE AND FRAME SIZES VARY. REFER TO VTRANS STANDARD SHEETS (D SERIES) FOR DIMENSIONS.
5. FOR CONCRETE TOP WITH GRATE AND FRAME DIMENSIONS AND STEEL SCHEDULE REFER TO VTRANS STANDARD SHEETS D-6 (DITCHES) OR D-9 / D-10 (WITH CURB).
6. TWO COURSES MIN. OF BUILDING BRICK, CONFORMING TO SUBSECTION 705.01 (b) OF THE VERMONT STANDARD SPECIFICATIONS FOR CONSTRUCTION, TO BE PLACED ON TOP OF FLAT SLAB TOP PRIOR TO PLACING FRAME TO FACILITATE CHANGING ELEVATION OF CATCH BASIN OR MANHOLE WHEN REQUIRED. PROVIDE MANHOLE ADJUSTING RING WHEN REQUIRED TO BRING GRATE OR COVER UP TO WEARING COURSE SURFACE ELEVATION. BRICKS AND ADJUSTING RING TO BE INCLUDED IN PRICE OF CATCH BASIN OR MANHOLE.
7. REFER TO VTRANS STANDARD SHEET D-11 FOR APPLICATION OF CAST IRON COVER WITH FRAME FOR MANHOLE.

DIAMETER	WALL THICKNESS (MIN.)	FLOOR THICKNESS (MIN.)
1.2 m	125 mm	150 mm
1.5 m	150 mm	175 mm
1.8 m	175 mm	200 mm
2.1 m	200 mm	225 mm
2.4 m	225 mm	250 mm

PRECAST REINFORCED CONCRETE CATCH BASIN / MANHOLE DETAIL

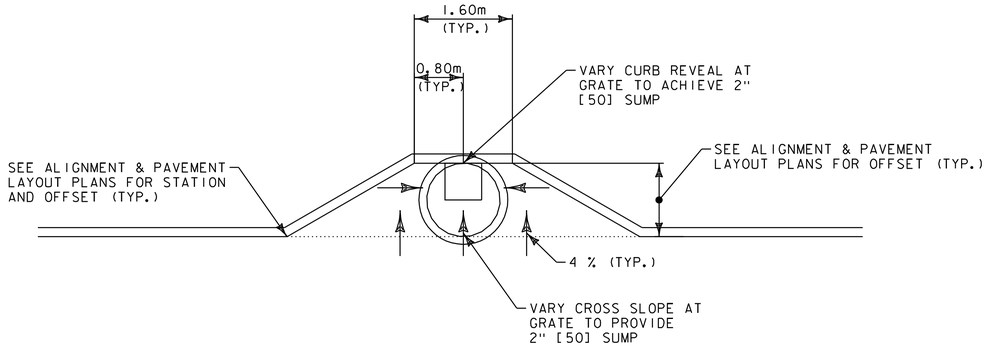
NOT TO SCALE

DRAINAGE DETAILS

PROJECT NAME: BRANDON
PROJECT NUMBER: NH 019-3(496)

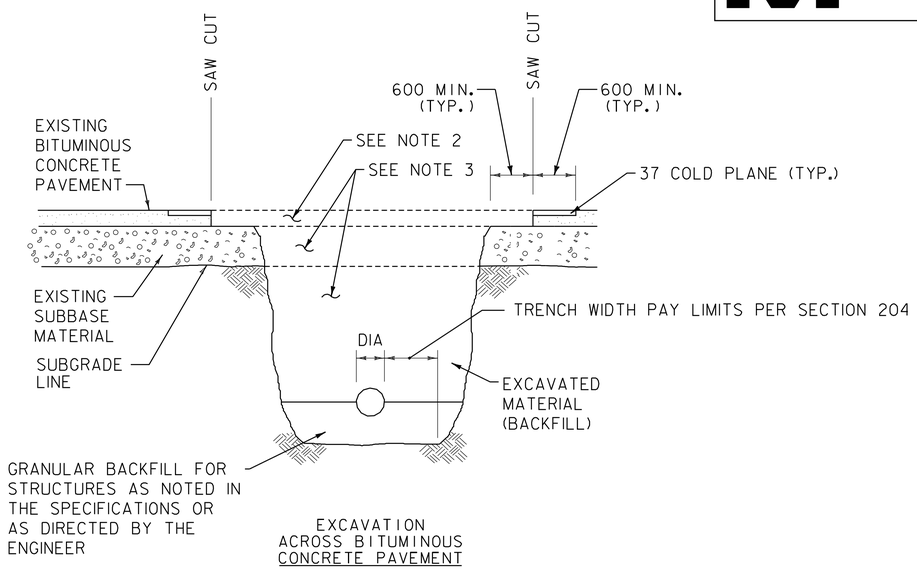
FILE NAME: zb008s6-drndet.dgn
PROJECT LEADER: C. BEAN
DESIGNED BY: M. HALEY
PLOT DATE: 2/23/2017
DRAWN BY: M. HALEY
CHECKED BY: D. MUNRO
SHEET 159 OF 601

CLD 02-0448 MODEL:1



EXTENDED GUTTER OPENING

NOT TO SCALE



EXCAVATION ACROSS BITUMINOUS CONCRETE PAVEMENT

NOTES:

1. THIS DETAIL APPLIES TO RESTORATION OF PAVED AREAS WITH TRENCH EXCAVATION NECESSARY TO INSTALL DRAINAGE PIPES, CATCH BASINS, OR MANHOLES IN AREAS OUTSIDE THE GENERAL LIMIT OF ROADWAY RECONSTRUCTION AS SHOWN ON THE DRAINAGE PLANS. REFER TO SECTION 204 OF THE SPECIFICATIONS FOR PAY LIMITS AND CONSTRUCTION REQUIREMENTS FOR AREAS WITHIN ROADWAY CONSTRUCTION LIMITS.

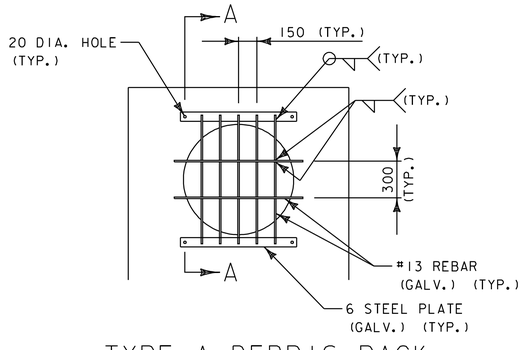
2. BITUMINOUS CONCRETE PAVEMENT DEPTH SHALL MATCH THE DEPTH OF EXISTING PAVEMENT, BUT SHALL BE A MINIMUM OF 100 mm (ROADWAYS) OR 50 mm (DRIVEWAYS).

3. SUITABLE STOCKPILED MATERIAL FOR BACKFILL SHALL BE PLACED TO MATCH THE DEPTH OF EXISTING SUBBASE. REFER TO SECTION 204 OF THE SPECIFICATIONS FOR BACKFILL AND COMPACTION REQUIREMENTS. THIS WORK SHALL BE INCIDENTAL TO ITEM 204.20, TRENCH EXCAVATION OF EARTH.

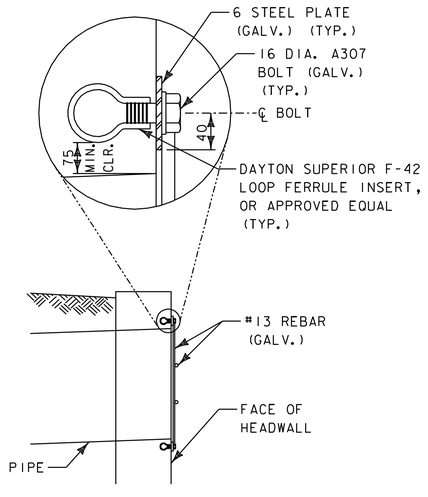
4. PAYMENT FOR SAW CUTTING, COLD PLANE, EXCAVATION, BACKFILL, DISPOSAL OF ALL SURPLUS MATERIAL, RESTORATION OF THE SITE FOLLOWING THE COMPLETION OF CONSTRUCTION, LABOR, TOOLS, EQUIPMENT, SHEETING, BRACING AND INCIDENTALS NECESSARY TO COMPLETE THE WORK SHALL BE INCIDENTAL TO ITEM 204.20, TRENCH EXCAVATION OF EARTH. NEW BITUMINOUS CONCRETE PAVEMENT WILL BE PAID FOR SEPARATELY. WHEN REQUIRED BY THE ENGINEER, GRANULAR BACKFILL FOR STRUCTURES, SHALL BE PAID FOR SEPARATELY.

TRENCH EXCAVATION IN PAVEMENT

NOT TO SCALE



TYPE A DEBRIS RACK



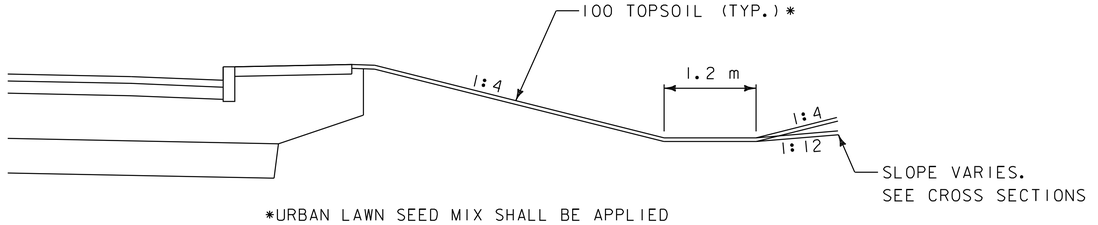
SECTION A-A

NOTE:

1. TYPE A DEBRIS RACK FOR HEADWALL APPLICATION DEPICTED. TYPE A DEBRIS RACKS SHALL BE INSTALLED ON INLET HEADWALLS AS NOTED ON THE PLANS. TYPE B DEBRIS RACKS FOR CULVERT END SECTIONS SHALL BE PROVIDED AT LOCATIONS AS NOTED ON THE PLANS AND SHALL BE INSTALLED PER MANUFACTURER'S INSTRUCTIONS.

DEBRIS RACK DETAIL

NOT TO SCALE



*URBAN LAWN SEED MIX SHALL BE APPLIED

STORMWATER TREATMENT GRASS CHANNEL

(22+511 TO 22+609 RT)

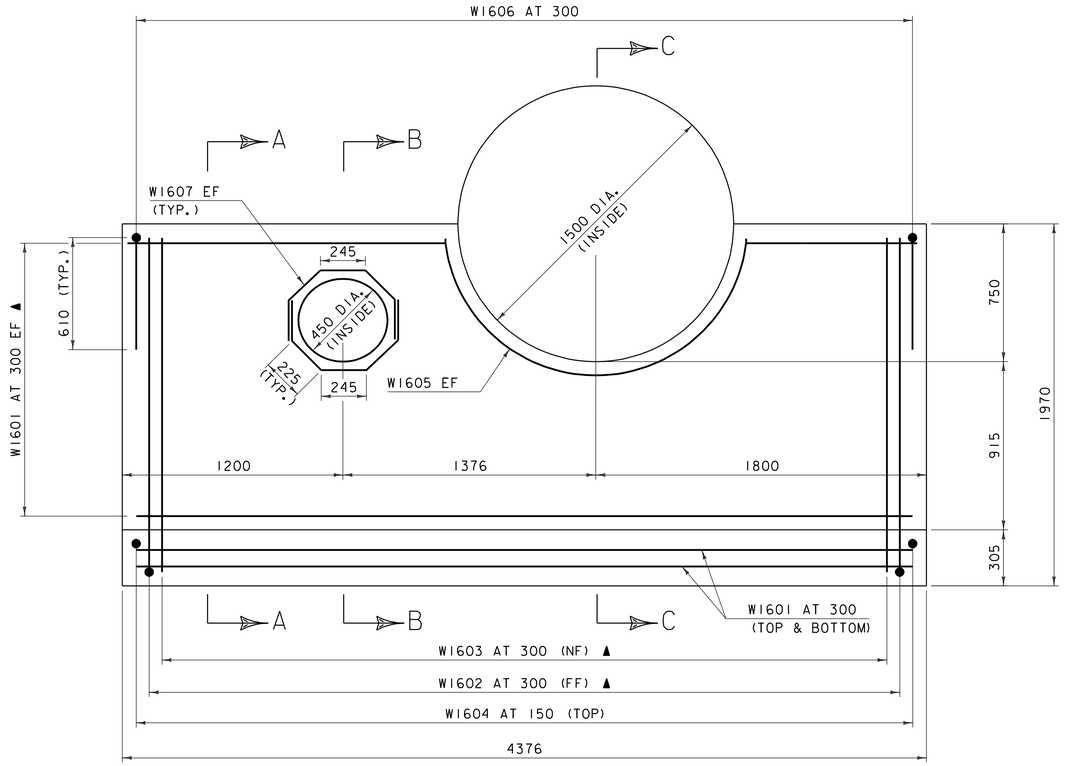
NOT TO SCALE

DRAINAGE DETAILS

PROJECT NAME: BRANDON
PROJECT NUMBER: NH 019-3(496)

FILE NAME: zb008s6-drndet.dgn
PROJECT LEADER: C. BEAN
DESIGNED BY: M. HALEY
PLOT DATE: 2/23/2017
DRAWN BY: M. HALEY
CHECKED BY: D. MUNRO
SHEET 160 OF 601

CLD 02-0448 MODEL: 2



* 450 DIA. PIPE IS SKEWED TO HEADWALL. ADJUST FF BARS TO ACCOMMODATE SKEWED PIPE.

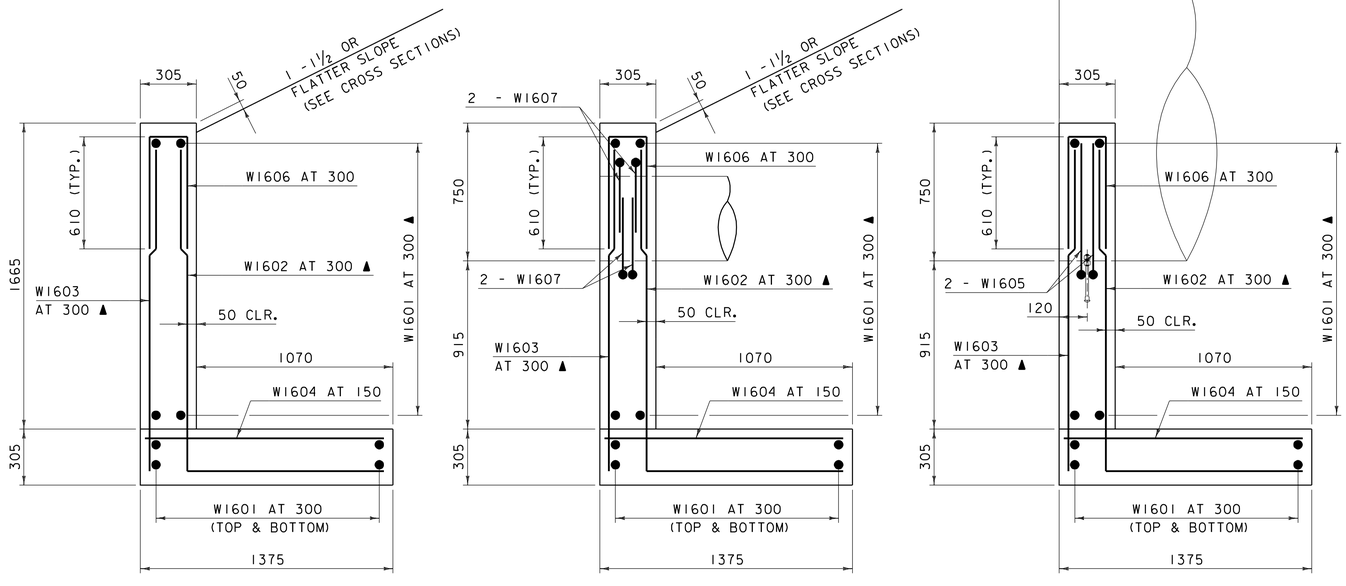
ELEVATION

STEEL SCHEDULE FOR REINFORCED CONCRETE HEADWALL

ITEM	EACH	SIZE	LENGTH	MARK	TYPE	A	B	C	D	E	H	K	O	R
1	24	16	4230	W1601	STR.									
2	16	16	2875	W1602	17		1830	1045						
3	16	16	1830	W1603	STR.									
4	30	16	1220	W1604	STR.									
5	2	16	2490	W1605	10	-	2490	-					1680	840
6	16	16	1400	W1606	S10		610	180	610					
7	4	16	1145	W1607	14	225	225	245	225	225	160	160		

DESIGN CRITERIA

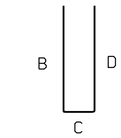
1. ASSUMED ALLOWABLE LOAD FOR SPREAD FOOTINGS
   - ON SOIL: 191.5 kPa
   - ON LEDGE: 478.8 kPa
2. REINFORCING STEEL GRADE: 413.7 MPa
3. CONCRETE CLASS B: 24.1 MPa
4. SOIL UNIT WEIGHT: 21.99 kN/M^3
5. ASSUMED FOOTING FRICTION COEFFICIENT: 0.55
6. SOIL FRICTION ANGLE: 33.67°
7. DEDUCT VOLUME OF PIPE.
8. ALL EXPOSED EDGES WILL BE CHAMFERED 25 mm.
9. ALL REBAR CLEARANCES SHALL BE 75 mm UNLESS OTHERWISE NOTED.
10. CONSTRUCTION JOINT SURFACE SHALL BE ROUGH.



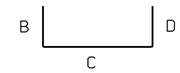
CONCRETE QUANTITY (CM)	4.0
LENGTH OF BARS (M)	245.4
WEIGHT OF BARS (KG)	381.8
CARRIAGE BOLTS (NO.)	7

REBAR NOTES:

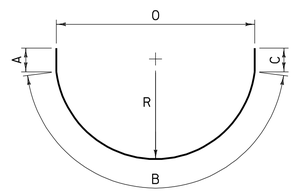
NF = NEAR FACE
FF = FAR FACE
EF = EACH FACE
▲ = CUT TO FIT IN FIELD



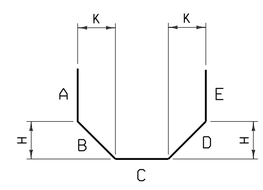
REBAR TYPE: S10



REBAR TYPE: 17



REBAR TYPE: 10



REBAR TYPE: 14

SPECIAL REINFORCED CONCRETE CRADLE HEADWALL

NOT TO SCALE

REFER TO PIPES 111 AND 112 ON DRAINAGE PLAN 11

DRAINAGE DETAILS

PROJECT NAME: BRANDON
PROJECT NUMBER: NH 019-3(496)

FILE NAME: zb008s6-drndet.dgn
PROJECT LEADER: J. BYATT
DESIGNED BY: S. BEAUMONT
PLOT DATE: 2/23/2017
DRAWN BY: S. BEAUMONT
CHECKED BY: J. BYATT
SHEET 161 OF 601

CLD 02-0448 MODEL: 3

ISSUED FOR CONSTRUCTION

VAOT Metric

VT STATE PLANE GRID N

UNDERDRAIN

1 STA 20+782.0 LT TO 20+850.0 LT
NEW 200 mm x 68.0 m UNDERDRAIN
FLUSHING BASIN AT 20+782.0 LT

20 + 735.617
BEGIN APPROACH

20 + 778.000
END APPROACH
BEGIN PROJECT
NH 019-3(496)

IRON PIN
GUY WIRE
32-I
32-I
FIRE STATION
FLAG POLE
GRAVEL
PAVED
STN.
DI
HVCTRL
450 HDPE RETAIN
HANDICAP SIGN
S.L.40
STATE HWY BEGINS
SSMH
HYD.
GV(4)
GUY POLE
GUY WIRE
20+660
20+680
US 7
20+700
20+720
20+740
20+760
20+780
20+800
GRASS ISLAND
AMERICAN LEGION
GRANITE CURB
SHRUBS
CONC. PAD
HANDICAP SIGN
DELIN.
GR.CURB
DELIN.(2)
ST.35
STATE HWY ENDS
WSO
GRANITE CURB
GUY WIRES(3)
M. MAPLE
M. ELM
M. POPLAR
M. BASSWOOD
BASS (4)WOOD(2)
BND
BND=STUMP
S.CEDARS(6)
S. SPRUCES
S/M. WALNUTS
LILAC
M. PINE
2 SWF
WOODS
PAVED DRIVE
FLAG POLE
BUILDING
PAVED
MARBLE BND
BARB WIRE FENCE
WOODS/ LEDGE
M. MAPLES
IRON PIPE
POT 20+777.617 BK
POT 20+778.000 AHD =
EQ. = -0.383 m
MATCH LINE 20+815

AN ESTIMATED QUANTITY OF 1.2 m EACH OF NEW 200 mm UNDERDRAIN CARRIER PIPE HAS BEEN INCLUDED IN THE CONTRACT FOR MAKING CONNECTIONS TO EACH CATCH BASIN AT UNDERDRAIN OUTLETS.
AN ESTIMATED QUANTITY OF 1.5 m EACH OF 150 mm UNDERDRAIN CARRIER PIPE HAS BEEN INCLUDED IN THE CONTRACT FOR CONNECTING EACH PROPOSED FLUSHING BASIN TO PROPOSED UNDERDRAIN PIPE.

ALL WORK TO PLUG AND ABANDON EXISTING DRAINAGE AS NOTED ON DRAINAGE NOTES ON THESE PLANS AND ON THE DRAINAGE DETAIL SHEETS SHALL BE INCIDENTAL TO THE CONTRACT.

LEGEND

EXISTING DRAINAGE PIPE
PROPOSED DRAINAGE PIPE WITH CATCH BASIN
PROPOSED UNDERDRAIN WITH RISER FOR FLUSHING BASIN

0 10 20 30
SCALE IN METERS

DRAINAGE PLAN 1

PROJECT NAME: BRANDON
PROJECT NUMBER: NH 019-3(496)

FILE NAME: zb008s6-drn.dgn
PROJECT LEADER: C. BEAN
DESIGNED BY: M. HALEY
PLOT DATE: 2/23/2017
DRAWN BY: M. HALEY
CHECKED BY: D. MUNRO
SHEET 162 OF 601

CLD 02-0448 MODEL:1

ISSUED FOR CONSTRUCTION

VAOT Metric

UNDERDRAIN

2. STA 20+821.5 RT TO 20+850.0 RT
NEW 200 mm x 28.5 m UNDERDRAIN
FLUSHING BASIN AT 20+821.5 RT

3. STA 20+851.5 RT TO 20+878.0 RT
NEW 200 mm x 26.5 m UNDERDRAIN
FLUSHING BASIN AT 20+851.5 RT

4. STA 20+851.5 LT TO 20+878.0 LT
NEW 200 mm x 26.5 m UNDERDRAIN
FLUSHING BASIN AT 20+851.5 LT

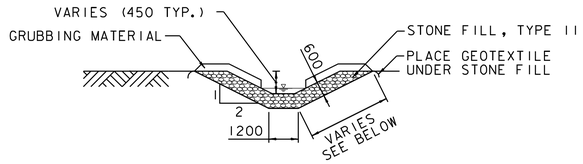
5. STA 20+880.0 RT TO 20+898.0 RT
NEW 200 mm x 15.5 m UNDERDRAIN

6. STA 20+880.0 LT TO 20+980.0 LT
NEW 200 mm x 100.0 m UNDERDRAIN

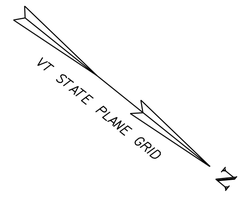
7. STA 20+903.0 RT TO 20+990.0 RT
NEW 150 mm x 88.5 m UNDERDRAIN
CONNECT TO 200 mm UNDERDRAIN AT 20+990

8. STA 20+905.5 RT TO 20+940.0 RT
NEW 200 mm x 34.5 m UNDERDRAIN

9. STA 20+940.5 RT TO 20+980.0 RT
NEW 200 mm x 39.5 m UNDERDRAIN

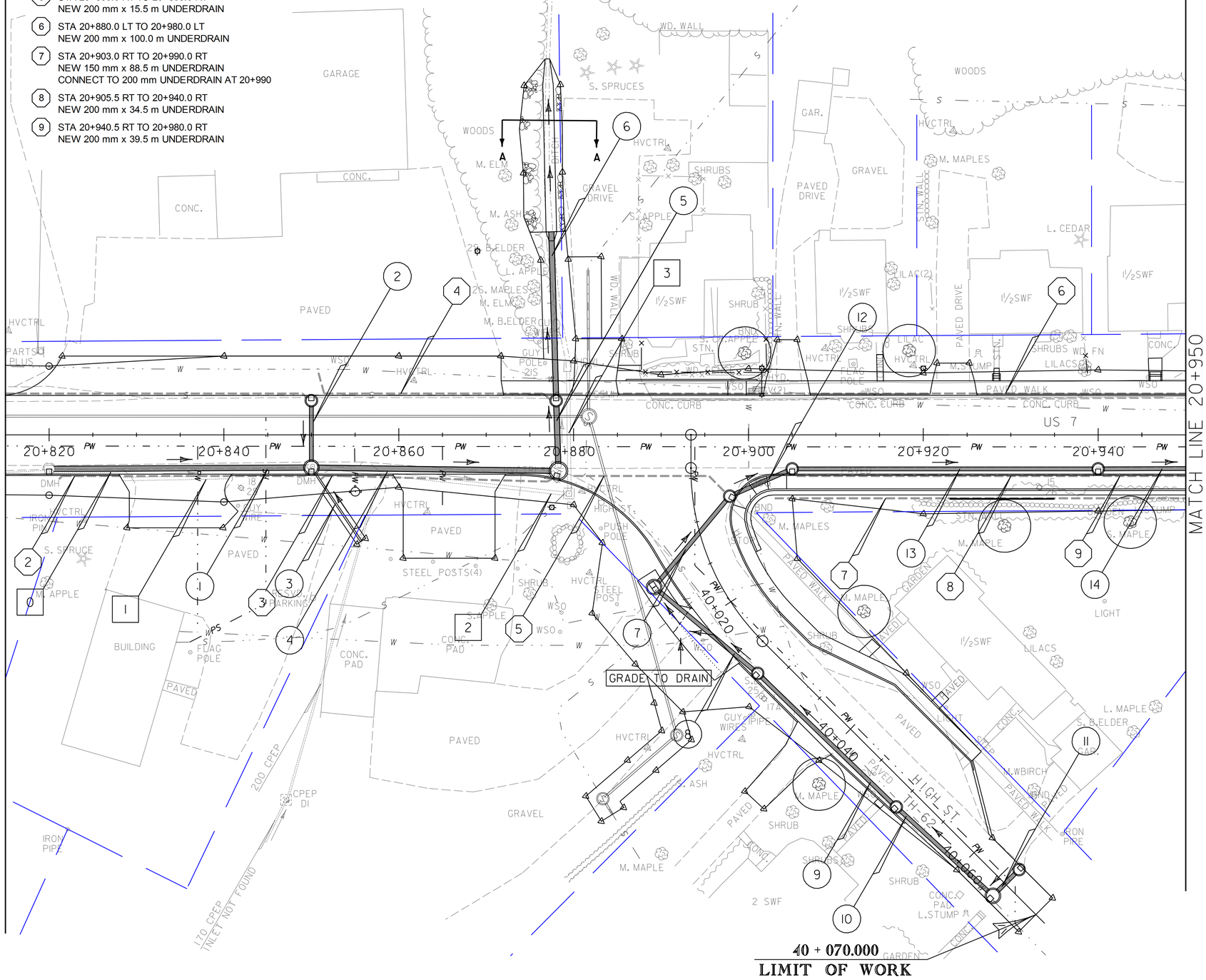


OUTLET CHANNEL DETAIL A-A
NOT TO SCALE



MATCH LINE 20+815

MATCH LINE 20+950



NEW DRAINAGE

1. STA 20+820 RT TO 20+850 RT
NEW 600 mm X 28.7 m PCCSP (1.63) OR CAAP (1.52) OR
RCP CLASS III OR CPEP (SL)
REHABILITATION OF DI, CB, OR MH, CLASS II AT 20+820 RT
REMOVE FRAME/COVER, NEW FRAME/CI GRATE TYPE E

2. STA 20+850.0 LT/RT
NEW 450 mm x 6.3 m RCP CLASS III OR CPEP(SL)
NEW 1.2 m PRCCB W/CI GRATE TYPE E AT 20+850 LT

3. STA 20+850 RT TO 20+855.8 RT
NEW 9.4 m PVC SEWER PIPE (200 mm)
CONNECT TO EXISTING PIPE

4. STA 20+850 RT TO 20+878 RT
NEW 600 mm x 26.6 m PCCSP (1.63) OR CAAP (1.52)
NEW 1.5 m PRCCB W/CI GRATE TYPE E AT 20+850 RT

5. STA 20+878 LT/RT
NEW 600 mm x 6.5 m RCP CLASS III OR CPEP(SL)
NEW 1.8 m PRCCB W/CI GRATE TYPE E AT 20+878 RT

6. STA 20+877.5 LT TO 20+878 LT
NEW 600 mm x 18.7 m RCP CLASS III OR CPEP(SL) W/ES AT OUTLET
NEW 1.2 m PRCCB W/CI GRATE TYPE E AT 20+878 LT
STONE FILL, TYPE II CHANNEL AT OUTLET

7. STA 40+008 LT TO 40+015 RT
NEW 450 mm x 12.2 m RCP CLASS III OR CPEP(SL)
NEW 1.5 m PRCCB W/2 CI GRATES TYPE A AT 40+015 RT

8. STA 40+015 RT TO 40+028 RT
NEW 450 mm x 14.1 m PCCSP (1.63) OR CAAP (1.52) OR
RCP CLASS III OR CPEP(SL)
NEW 1.2 m PRCCB W/CI GRATE TYPE E AT 40+028 RT

9. STA 40+028 RT TO 40+050.0 RT
NEW 450 mm x 20.8 m PCCSP (1.63) OR CAAP (1.52) OR
RCP CLASS III OR CPEP(SL)
NEW x 1.2 m PRCCB W/CI GRATE TYPE E AT 40+050 RT

10. STA 40+050 RT TO 40+065 RT
NEW 450 mm x 13.7 m PCCSP (1.63) OR CAAP (1.52) OR
RCP CLASS III OR CPEP(SL)
NEW 1.5 m PRCCB W/CI GRATE TYPE E AT 40+065 RT

11. STA 40+065 LT/RT
NEW 450 mm x 2.9 m PCCSP (1.63) OR CAAP (1.52) OR
RCP CLASS III OR CPEP(SL)
NEW 1.2 m PRCCB W/CI GRATE TYPE E AT 40+065 LT

12. STA 40+008 LT TO 20+905 RT
NEW 450 mm x 6.6 m PCCSP (1.63) OR CAAP (1.52) OR
RCP CLASS III OR CPEP(SL)
NEW 1.2 m PRCCB W/CI GRATE TYPE E AT 40+008 LT

13. STA 20+905 RT TO 20+940 RT
NEW 450 mm x 33.8 m PCCSP (1.63) OR CAAP (1.52) OR
RCP CLASS III OR CPEP(SL)
NEW 1.2 m PRCCB W/CI GRATE TYPE E AT 20+905 RT

14. STA 20+940 RT TO 20+980 RT
NEW 450 mm x 38.7 m PCCSP (1.63) OR CAAP (1.52) OR
RCP CLASS III OR CPEP(SL)
NEW 1.2 m PRCCB W/CI GRATE TYPE E AT 20+940 RT

EXISTING DRAINAGE

0. STA 20+820.0 RT TO 20+850.0 RT
EXISTING 600 mm PIPE W/ MH AT INLET
RETAIN MH / REMOVE PIPE

1. STA 20+828.3 RT TO 20+840.5 RT
EXISTING 380 mm CGMP - REMOVE

2. STA 20+850.0 RT TO 20+879.5 RT
EXISTING 450 mm PIPE W/ MH AT INLET - REMOVE

3. STA 20+879.4 LT TO 20+879.5 RT
EXISTING 460 mm RCP W/DI AND HEADWALL - REMOVE

DRAINAGE PLAN 2

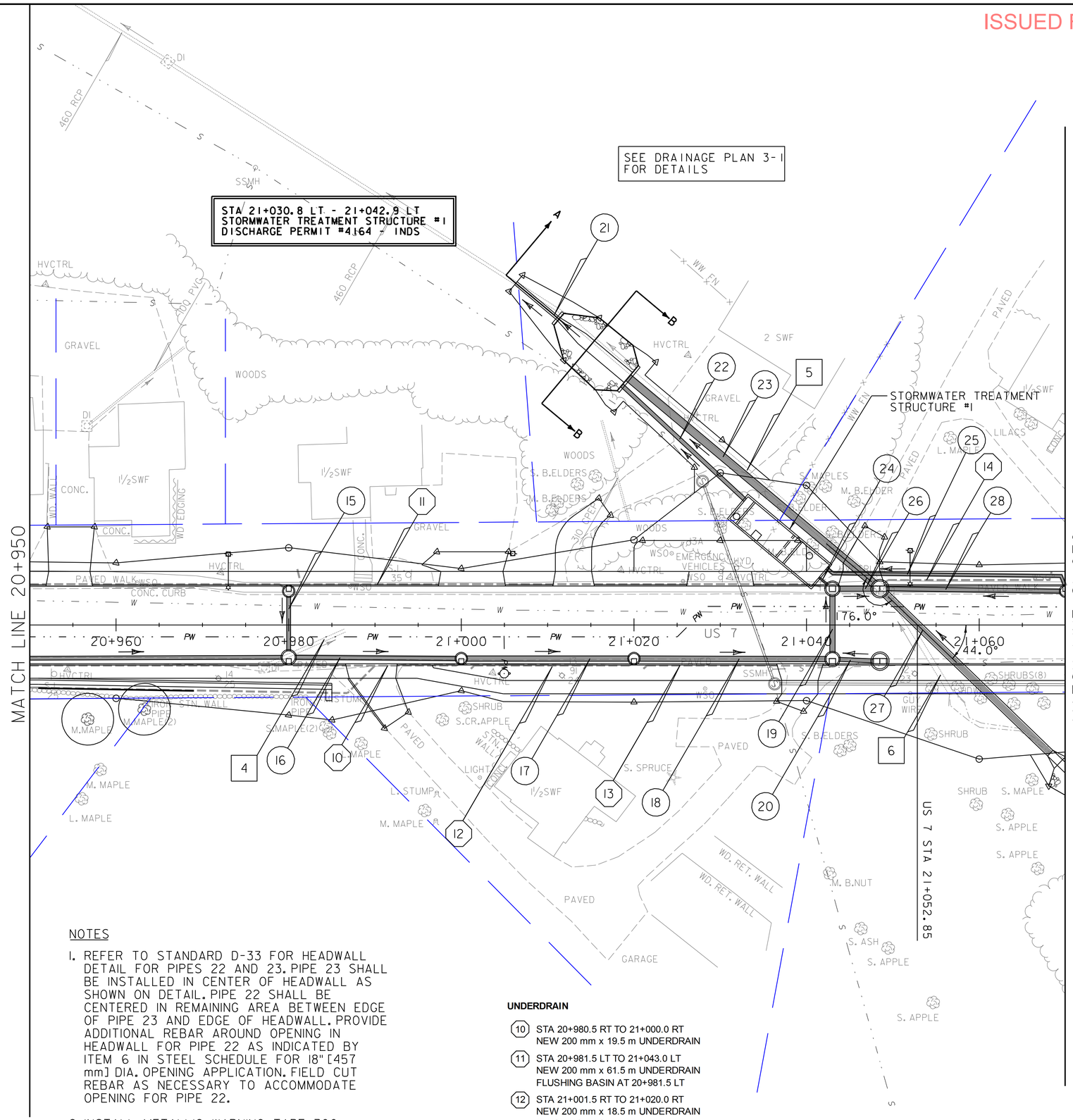
PROJECT NAME:	BRANDON
PROJECT NUMBER:	NH 019-3(496)

FILE NAME: zb008s6-drn.dgn	PLOT DATE: 2/23/2017
PROJECT LEADER: C. BEAN	DRAWN BY: M. HALEY
DESIGNED BY: M. HALEY	CHECKED BY: D. MUNRO
	SHEET 163 OF 601

CLD 02-0448 MODEL: 2

ISSUED FOR CONSTRUCTION

VAOT Metric



NOTES

1. REFER TO STANDARD D-33 FOR HEADWALL DETAIL FOR PIPES 22 AND 23. PIPE 23 SHALL BE INSTALLED IN CENTER OF HEADWALL AS SHOWN ON DETAIL. PIPE 22 SHALL BE CENTERED IN REMAINING AREA BETWEEN EDGE OF PIPE 23 AND EDGE OF HEADWALL. PROVIDE ADDITIONAL REBAR AROUND OPENING IN HEADWALL FOR PIPE 22 AS INDICATED BY ITEM 6 IN STEEL SCHEDULE FOR 18" [457 mm] DIA. OPENING APPLICATION. FIELD CUT REBAR AS NECESSARY TO ACCOMMODATE OPENING FOR PIPE 22.
2. INSTALL METALLIC WARNING TAPE 300 mm ABOVE AND ALONG ENTIRE LENGTH OF DIVERSION PIPE. ALL MATERIALS AND WORK TO INSTALL WARNING TAPE SHALL BE INCIDENTAL TO THE DIVERSION PIPE.

UNDERDRAIN

(10) STA 20+980.5 RT TO 21+000.0 RT
NEW 200 mm x 19.5 m UNDERDRAIN

(11) STA 20+981.5 LT TO 21+043.0 LT
NEW 200 mm x 61.5 m UNDERDRAIN
FLUSHING BASIN AT 20+981.5 LT

(12) STA 21+001.5 RT TO 21+020.0 RT
NEW 200 mm x 18.5 m UNDERDRAIN
FLUSHING BASIN AT 21+001.5 LT

(13) STA 21+021.5 RT TO 21+043.0 RT
NEW 200 mm x 21.5 m UNDERDRAIN
FLUSHING BASIN AT 21+021.5 RT

(14) STA 21+048.5 LT TO 21+068.1 LT
NEW 200 mm x 19.6 m UNDERDRAIN
FLUSHING BASIN AT 21+068.1 LT

NEW DRAINAGE

(15) STA 20+980 LT/RT
NEW 450 mm x 6.3 m RCP CLASS III OR CPEP(SL)
NEW 1.2 m PRCCB W/CI GRATE TYPE E AT 20+980 LT

(16) STA 20+980 RT TO 21+000 RT
NEW 450 mm x 18.7 m PCCSP (1.63) OR CAAP (1.52) OR
RCP CLASS III OR CPEP(SL)
NEW 1.5 m PRCCB W/CI GRATE TYPE E AT 20+980 RT

(17) STA 21+000 RT TO 21+020 RT
NEW 600 mm x 18.8 m PCCSP (1.63) OR CAAP (1.52) OR
RCP CLASS III OR CPEP(SL)
NEW 1.2 m PRCCB W/CI GRATE TYPE E AT 21+000 RT

(18) STA 21+020 RT TO 21+043 RT
NEW 600 mm x 21.7 m PCCSP (1.63) OR CAAP (1.52) OR
RCP CLASS III OR CPEP(SL)
NEW 1.2 m PRCCB W/CI GRATE TYPE E AT 21+020 RT

(19) STA 21+043 LT/RT
NEW 600 mm x 6.7 m RCP CLASS III OR CPEP(SL)
NEW 1.5 m PRCCB W/ STEEL GRATE AT 21+043 RT

(20) STA 21+043 RT TO 21+048.5 RT
NEW 450 mm x 3.9 m RCP CLASS III OR CPEP(SL)
NEW 1.8 m PRCCB W/2 STEEL GRATES AT 21+048.5 RT

(21) STA 21+006.3 LT TO 21+011.3 LT
NEW 450 mm x 6.5 m RCP CLASS III
CONNECT TO EXISTING PIPE
NEW FULL HEADWALL AND DEBRIS RACK, TYPE A AT INLET

(22) STA 21+018.6 LT TO 21+032.9 LT
NEW 450 mm x 19.5 m RCP CLASS III OR CPEP (SL)
CONNECT TO STORMWATER TREATMENT STRUCTURE AT INLET

(23) STA 21+019.3 LT TO 21+048.5 LT
NEW 900 mm x 37.2 m RCP CLASS IV
NEW 1.8 m PRCCB W/2 STEEL GRATES AT 21+048.5 LT
NEW FULL HEADWALL (SEE NOTE 1) AND E-STONE, TYPE E4 CHANNEL AT OUTLET

(24) STA 21+041.8 LT TO 21+043 LT
NEW 1.4 m PVC SEWER PIPE (150 mm)
DIVERSION PIPE (TYPE 1)

(25) STA 21+042.4 LT TO 21+070 LT
NEW 300 mm x 28.7 m CPEP(SL) W/TWO 45° AND ONE 22.5° WATER TIGHT ELBOWS
DIVERSION PIPE (TYPE 2) (SEE NOTE 2)

(26) STA 21+043 LT TO 21+048.5 LT
NEW 600 mm x 3.9 m RCP CLASS III OR CPEP(SL)
NEW 1.5 m PRCCB DIVERSION STRUCTURE W/ STEEL GRATE AT 21+043 LT

(27) STA 21+048.5 LT TO 21+068.2 RT
NEW 900 mm x 26.5 m PCCSP (2.01) OR CAAP (1.91)
W/ES AND DEBRIS RACK, TYPE B AT INLET
E-STONE, TYPE E2 CHANNEL AT INLET

(28) STA 21+048.5 LT TO 21+070 LT
NEW 450 mm x 20.0 m RCP CLASS III OR CPEP(SL)
NEW 1.2 m PRCCB DIVERSION STRUCTURE W/CI GRATE TYPE E AT 21+070 LT

EXISTING DRAINAGE

[4] STA 20+977.1 RT TO 20+986.5 RT
EXISTING 200 mm PVC W/DI AT INLET - OUTLET NOT FOUND - REMOVE DI
REMOVE PIPE TO LIMIT OF WORK / PLUG AND ABANDON REMAINING PIPE

[5] STA 21+012.8 LT TO 21+049.5 LT
EXISTING 610 mm RCP W/DI AT INLET - REMOVE

[6] STA 21+049.5 LT TO 21+056.8 RT
EXISTING 610 mm RCP W/HEADWALL - REMOVE

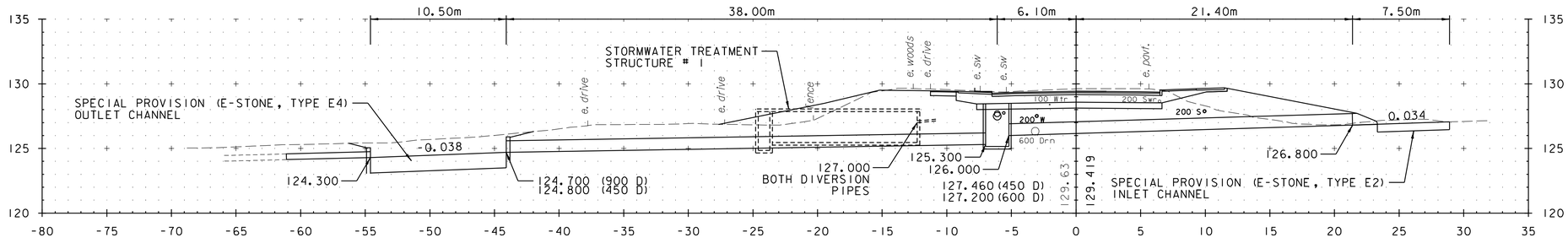
DRAINAGE PLAN 3

PROJECT NAME: BRANDON
PROJECT NUMBER: NH 019-3(496)

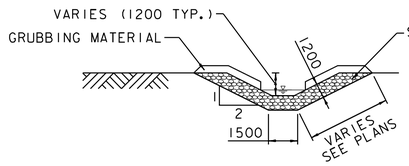
FILE NAME: zb008s6-drn.dgn
PROJECT LEADER: C. BEAN
DESIGNED BY: M. HALEY
PLOT DATE: 2/23/2017
DRAWN BY: M. HALEY
CHECKED BY: D. MUNRO
SHEET 164 OF 601

CLD 02-0448 MODEL: 3

ISSUED FOR CONSTRUCTION

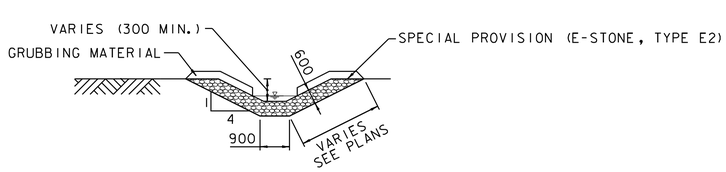


DETAIL A-A
DRAINAGE PLANS 3 & 4



OUTLET CHANNEL DETAIL B-B
DRAINAGE PLAN 3

NOT TO SCALE



INLET CHANNEL DETAIL C-C
DRAINAGE PLAN 4

NOT TO SCALE

0 10 20 30

SCALE IN METERS

DRAINAGE PLAN 3-1

PROJECT NAME: BRANDON
PROJECT NUMBER: NH 019-3(496)

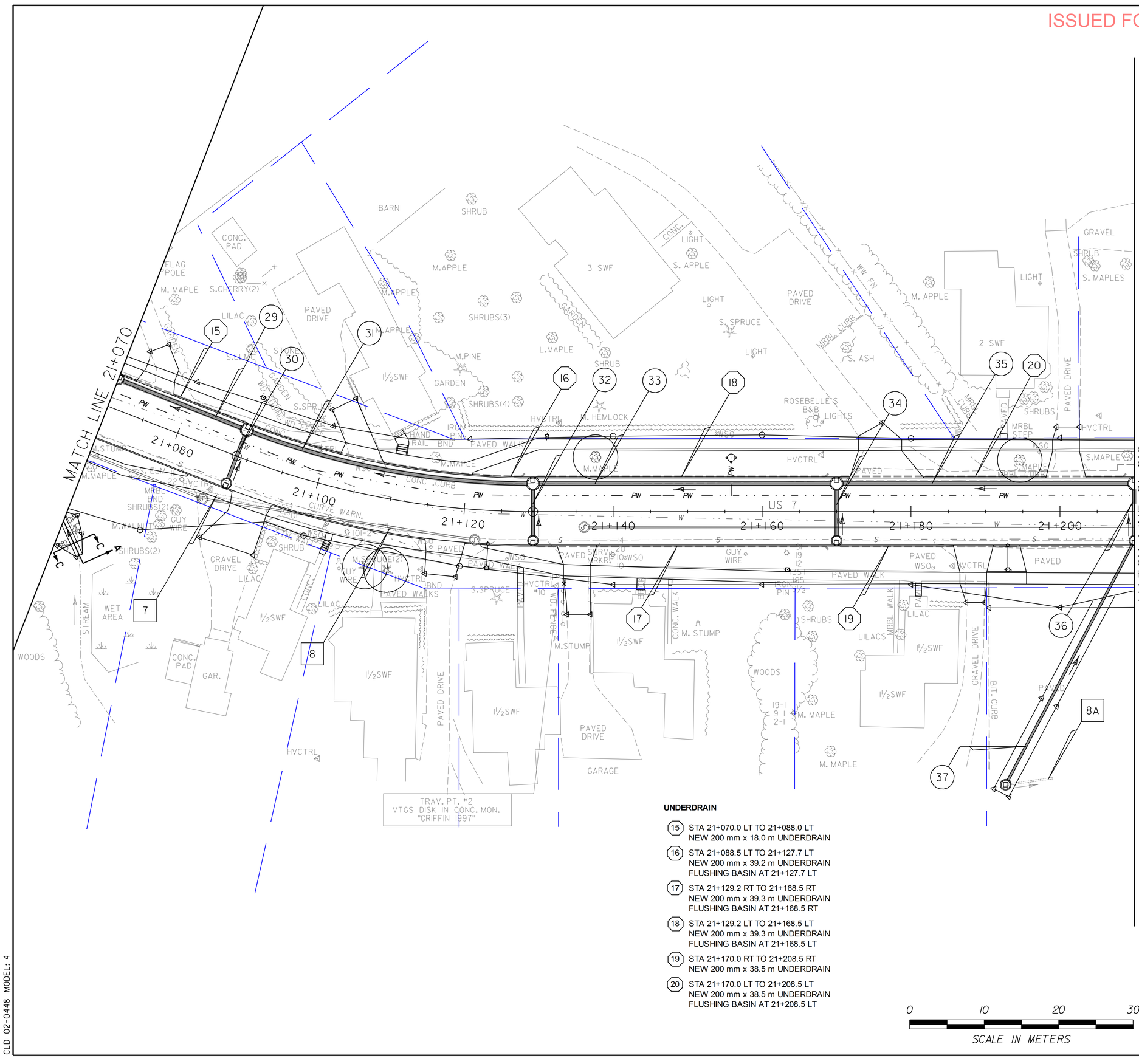
FILE NAME: zb008s6-drn.dgn
PROJECT LEADER: C. BEAN
DESIGNED BY: M. HALEY

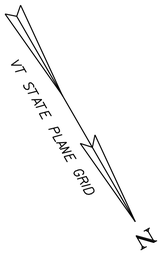
PLOT DATE: 2/23/2017
DRAWN BY: M. HALEY
CHECKED BY: D. MUNRO
SHEET 165 OF 601

CLD 02-0448 MODEL: 3-1

ISSUED FOR CONSTRUCTION

VAOT Metric





NEW DRAINAGE

(29) STA 21+070 LT TO 21+088.5 LT
NEW 450 mm x 17.2 m PCCSP (1.63) OR CAAP (1.52) OR RCP CLASS III OR CPEP(SL)
NEW 1.5 m PRCCB W/CI GRATE TYPE E AT 21+088.5 LT

(30) STA 21+088.5 LT/RT
NEW 450 mm x 6.3 m PCCSP (1.63) OR CAAP (1.52) OR RCP CLASS III OR CPEP(SL)
NEW 1.2 m PRCCB W/CI GRATE TYPE E AT 21+088.5 RT

(31) STA 21+088.5 LT TO 21+129.2 LT
NEW 450 mm x 37.8 m PCCSP (1.63) OR CAAP (1.52) OR RCP CLASS III OR CPEP(SL)
CURVED PIPE (106.25 m RADIUS)
NEW 1.5 m PRCCB W/CI GRATE TYPE E AT 21+129.2 LT

(32) STA 21+129.2 LT/RT
NEW 450 mm x 6.3 m PCCSP (1.63) OR CAAP (1.52) OR RCP CLASS III OR CPEP(SL)
NEW 1.2 m PRCCB W/CI GRATE TYPE D AT 21+129.2 RT

(33) STA 21+129.2 LT TO 21+170 LT
NEW 450 mm x 39.3 m PCCSP (1.63) OR CAAP (1.52) OR RCP CLASS III OR CPEP(SL)
NEW 1.5 m PRCCB W/CI GRATE TYPE D AT 21+170 LT

(34) STA 21+170 LT/RT
NEW 450 mm x 6.3 m RCP CLASS III OR CPEP(SL)
NEW 1.2 m PRCCB W/CI GRATE TYPE D AT 21+170 RT

(35) STA 21+170 LT TO 21+210 LT
NEW 450 mm x 38.5 m PCCSP (1.63) OR CAAP (1.52) OR RCP CLASS III OR CPEP(SL)
NEW 1.5 m PRCCB W/CI GRATE TYPE D AT 21+210 LT

(36) STA 21+210 LT/RT
NEW 450 mm x 6.3 m PCCSP (1.63) OR CAAP (1.52) OR RCP CLASS III OR CPEP(SL)
NEW 1.2 m PRCCB W/CI GRATE TYPE D AT 21+210 RT

(37) STA 21+193 RT TO 21+210 RT
NEW 300 mm x 35.9 m PCCSP (1.63) OR CAAP (1.52) OR RCP CLASS III OR CPEP(SL)
NEW 1.2 m PRCCB W/CI GRATE TYPE D AT 21+193 RT

EXISTING DRAINAGE

[7] STA 21+082.9 RT TO 21+096.9 RT
EXISTING 260 mm CGMP W/DI AT INLET - REMOVE

[8] STA 21+096.9 RT TO 21+112.1 RT
EXISTING 100 mm PVC - REMOVE
INLET NOT FOUND

[8A] STA 21+192.7 RT TO 21+199.1 RT
EXISTING 110 mm PVC W/DI AT INLET - OUTLET NOT FOUND
REMOVE DI / PLUG AND ABANDON PIPE

UNDERDRAIN

(15) STA 21+070.0 LT TO 21+088.0 LT
NEW 200 mm x 18.0 m UNDERDRAIN

(16) STA 21+088.5 LT TO 21+127.7 LT
NEW 200 mm x 39.2 m UNDERDRAIN
FLUSHING BASIN AT 21+127.7 LT

(17) STA 21+129.2 RT TO 21+168.5 RT
NEW 200 mm x 39.3 m UNDERDRAIN
FLUSHING BASIN AT 21+168.5 RT

(18) STA 21+129.2 LT TO 21+168.5 LT
NEW 200 mm x 39.3 m UNDERDRAIN
FLUSHING BASIN AT 21+168.5 LT

(19) STA 21+170.0 RT TO 21+208.5 RT
NEW 200 mm x 38.5 m UNDERDRAIN

(20) STA 21+170.0 LT TO 21+208.5 LT
NEW 200 mm x 38.5 m UNDERDRAIN
FLUSHING BASIN AT 21+208.5 LT

0 10 20 30
SCALE IN METERS

DRAINAGE PLAN 4

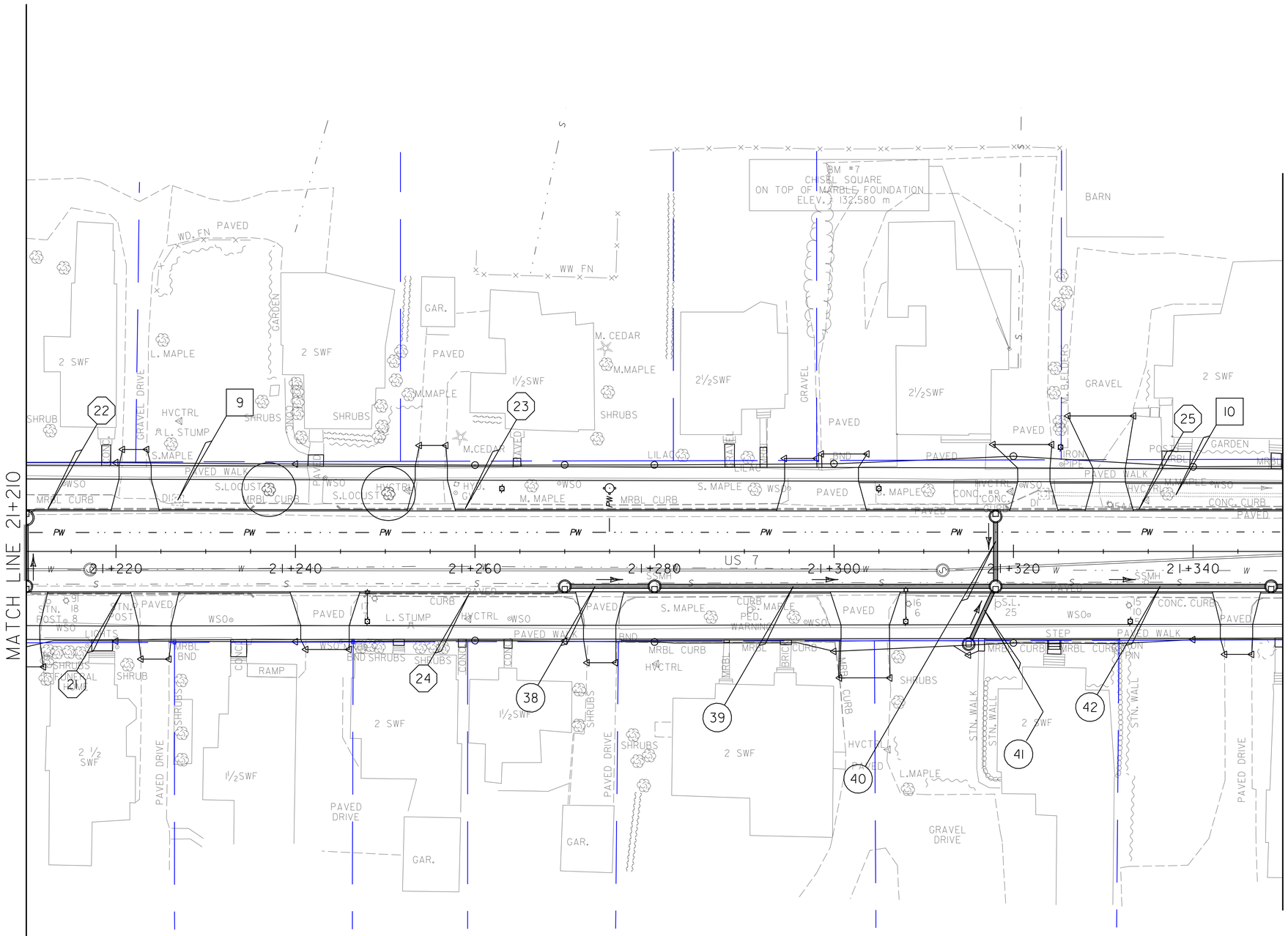
PROJECT NAME: BRANDON
PROJECT NUMBER: NH 019-3(496)

FILE NAME: zb008s6-drn.dgn
PROJECT LEADER: C. BEAN
DESIGNED BY: M. HALEY
PLOT DATE: 2/23/2017
DRAWN BY: M. HALEY
CHECKED BY: D. MUNRO
SHEET 166 OF 601

CLD 02-0448 MODEL: 4

ISSUED FOR CONSTRUCTION

VAOT Metric



VT STATE PLANE GRID N

NEW DRAINAGE

(38) STA 21+270 RT TO 21+280 RT
NEW 450 mm x 8.8 m PCCSP (1.63) OR CAAP (1.52) OR RCP CLASS III OR CPEP(SL)
NEW 1.2 m PRCCB W/CI GRATE TYPE D AT 21+270 RT

(39) STA 21+280 RT TO 21+318 RT
NEW 450 mm x 36.8 m PCCSP (1.63) OR CAAP (1.52) OR RCP CLASS III OR CPEP(SL)
NEW 1.2 m PRCCB W/CI GRATE TYPE E AT 21+280 RT

(40) STA 21+318 LT/RT
NEW 450 mm x 6.6 m PCCSP (1.63) OR CAAP (1.52) OR RCP CLASS III OR CPEP(SL)
NEW 1.2 m PRCCB W/CI GRATE TYPE E AT 21+318 LT

(41) STA 21+315 RT TO 21+318 RT
NEW 375 mm x 5.9 m PCCSP (1.63) OR CAAP (1.52) OR RCP CLASS III OR CPEP(SL)
NEW 1.2 m PRCCB W/CI GRATE TYPE D AT 21+315 RT

(42) STA 21+318 RT TO 21+348.7 RT
NEW 450 mm x 29.5 m PCCSP (1.63) OR CAAP (1.52) OR RCP CLASS III OR CPEP(SL)
NEW 1.2 m PRCCB W/CI GRATE TYPE E AT 21+318 RT

EXISTING DRAINAGE

(9) STA 21+226.9 LT
EXISTING 260 mm VCP STANDPIPE W/DI - REMOVE

(10) STA 21+323.4 LT TO 21+371.1 LT
EXISTING 310 mm CGMP W/DI AT INLET
REMOVE DI / FILL AND ABANDON PIPE

UNDERDRAIN

(21) STA 21+210.0 RT TO 21+235.0 RT
NEW 200 mm x 25.0 m UNDERDRAIN
FLUSHING BASIN AT 21+235.0 RT

(22) STA 21+210.0 LT TO 21+235.0 LT
NEW 200 mm x 25.0 m UNDERDRAIN
FLUSHING BASIN AT 21+235.0 LT

(23) STA 21+245.0 LT TO 21+318.0 LT
NEW 200 mm x 73.0 m UNDERDRAIN
FLUSHING BASIN AT 21+245.0 LT

(24) STA 21+248.0 RT TO 21+270.0 RT
NEW 200 mm x 22.0 m UNDERDRAIN
FLUSHING BASIN AT 21+248.0 RT

(25) STA 21+319.5 LT TO 21+355.0 LT
NEW 200 mm x 35.5 m UNDERDRAIN
FLUSHING BASIN AT 21+319.5 LT

0 10 20 30
SCALE IN METERS

DRAINAGE PLAN 5

PROJECT NAME: BRANDON
PROJECT NUMBER: NH 019-3(496)

FILE NAME: zb008s6-drn.dgn
PROJECT LEADER: C. BEAN
DESIGNED BY: M. HALEY
PLOT DATE: 2/23/2017
DRAWN BY: M. HALEY
CHECKED BY: D. MUNRO
SHEET 167 OF 601

CLD 02-0448 MODEL: 5

ISSUED FOR CONSTRUCTION

VAOT Metric

VT STATE PLANE GRID N

NEW DRAINAGE

(43) STA 21+348.7 RT TO 21+386.5 RT
NEW 450 mm x 36.6 m PCCSP (1.63) OR CAAP (1.52) OR RCP CLASS III OR CPEP(SL)
NEW 1.2 m PRCCB W/CI GRATE TYPE D AT 21+348.7 RT

(44) STA 21+355 LT TO 21+386.5 LT
NEW 450 mm x 30.3 m PCCSP (1.63) OR CAAP (1.52) OR RCP CLASS III OR CPEP(SL)
NEW 1.2 m PRCCB W/CI GRATE TYPE D AT 21+355 LT
EXTENDED GUTTER OPENING AT INLET

(45) STA 21+386.5 LT/RT
NEW 450 mm x 6.6 m PCCSP (1.63) OR CAAP (1.52) OR RCP CLASS III OR CPEP(SL)
NEW 1.2 m PRCCB W/CI GRATE TYPE D AT 21+386.5 RT

(46) STA 21+386.5 RT TO 21+386.5 RT
NEW 450 mm x 0.9 m PCCSP (1.63) OR CAAP (1.52) OR RCP CLASS III OR CPEP(SL)
NEW 1.2 m PRCCB W/ STEEL GRATE AT 21+386.5 RT

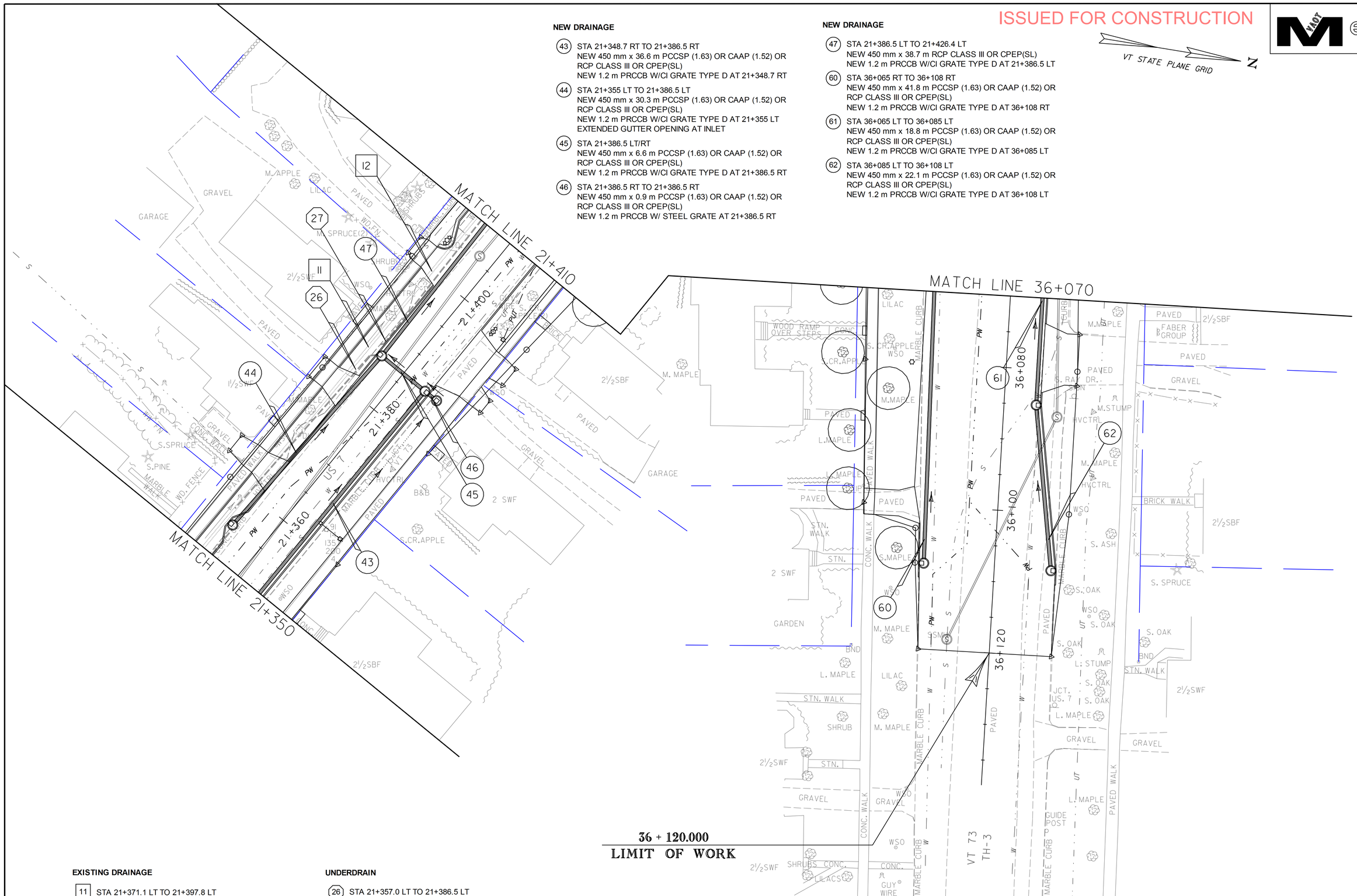
NEW DRAINAGE

(47) STA 21+386.5 LT TO 21+426.4 LT
NEW 450 mm x 38.7 m RCP CLASS III OR CPEP(SL)
NEW 1.2 m PRCCB W/CI GRATE TYPE D AT 21+386.5 LT

(60) STA 36+065 RT TO 36+108 RT
NEW 450 mm x 41.8 m PCCSP (1.63) OR CAAP (1.52) OR RCP CLASS III OR CPEP(SL)
NEW 1.2 m PRCCB W/CI GRATE TYPE D AT 36+108 RT

(61) STA 36+065 LT TO 36+085 LT
NEW 450 mm x 18.8 m PCCSP (1.63) OR CAAP (1.52) OR RCP CLASS III OR CPEP(SL)
NEW 1.2 m PRCCB W/CI GRATE TYPE D AT 36+085 LT

(62) STA 36+085 LT TO 36+108 LT
NEW 450 mm x 22.1 m PCCSP (1.63) OR CAAP (1.52) OR RCP CLASS III OR CPEP(SL)
NEW 1.2 m PRCCB W/CI GRATE TYPE D AT 36+108 LT



36 + 120.000
LIMIT OF WORK

EXISTING DRAINAGE

11 STA 21+371.1 LT TO 21+397.8 LT
EXISTING 310 mm CGMP W/DI AT INLET
REMOVE DI / FILL AND ABANDON PIPE

12 STA 21+397.8 LT TO 21+473.5 LT
EXISTING 310 mm CGMP W/DI AT INLET - REMOVE

UNDERDRAIN

(26) STA 21+357.0 LT TO 21+386.5 LT
NEW 200 mm x 29.5 m UNDERDRAIN
FLUSHING BASIN AT 21+357.0 LT

(27) STA 21+388.0 LT TO 21+426.4 LT
NEW 200 mm x 38.4 m UNDERDRAIN
FLUSHING BASIN AT 21+388.0 LT

0 10 20 30
SCALE IN METERS

DRAINAGE PLAN 6

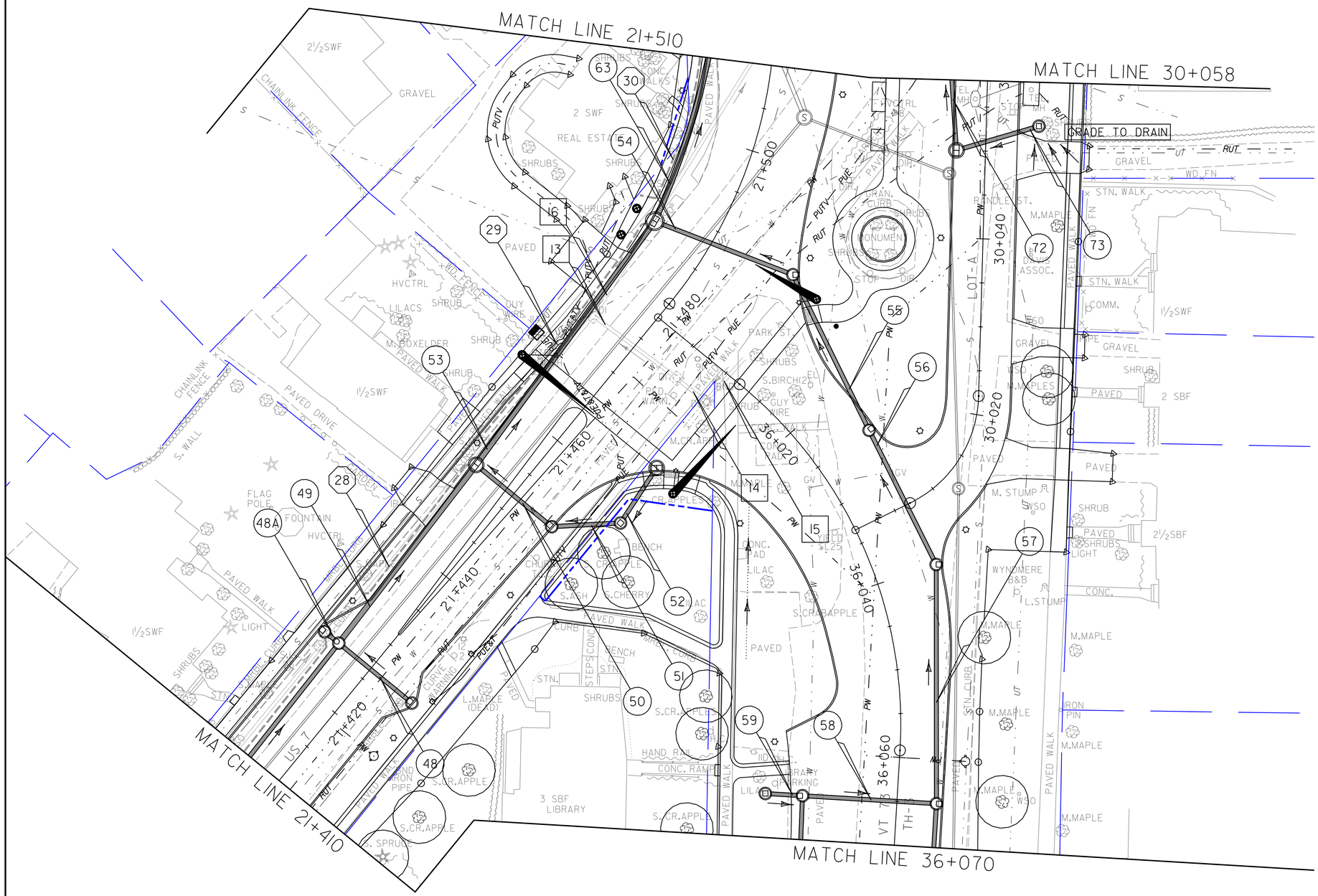
PROJECT NAME: BRANDON
PROJECT NUMBER: NH 019-3(496)

FILE NAME: zb008s6-drn.dgn
PROJECT LEADER: C. BEAN
DESIGNED BY: M. HALEY
PLOT DATE: 2/23/2017
DRAWN BY: M. HALEY
CHECKED BY: D. MUNRO
SHEET 168 OF 601

CLD 02-0448 MODEL: 6

ISSUED FOR CONSTRUCTION

VT STATE PLANE GRID



NEW DRAINAGE

(48) STA 21+426.4 LT/RT
NEW 450 mm x 9.5 m RCP CLASS III OR CPEP(SL)
NEW 1.2 m PRCCB W/CI GRATE TYPE D AT 21+426.4 RT
EXTENDED GUTTER OPENING AT INLET

(48A) STA 21+426.4 LT TO 21+426.4 LT
NEW 450 mm x 0.9 m PCCSP (1.63) OR CAAP (1.52) OR
RCP CLASS III OR CPEP(SL)
NEW 1.2 m PRCCB W/CI GRATE TYPE D AT STA 21+426.4 LT

(49) STA 21+426.4 LT TO 21+452 LT
NEW 450 mm x 24.3 m RCP CLASS III OR CPEP(SL)
NEW 1.2 m PRCMH W/CI COVER AT 21+426.4 LT

(50) STA 21+452 LT/RT
NEW 450 mm x 9.8 m RCP CLASS III OR CPEP(SL)
NEW 1.2 m PRCCB W/CI GRATE TYPE D AT 21+452 RT

(51) STA 21+452 RT TO 21+457.3 RT
NEW 450 mm x 6.6 m PCCSP (1.63) OR CAAP (1.52) OR
RCP CLASS III OR CPEP(SL)
NEW 1.2 m PRCCB W/ STEEL GRATE AT 21+457.3 RT

(52) STA 21+457.3 RT TO 21+464.5 RT
NEW 450 mm x 6.5 m PCCSP (1.63) OR CAAP (1.52) OR
RCP CLASS III OR CPEP(SL)
NEW 1.5 m PRCCB W/2 CI GRATES TYPE D AT 21+464.5 RT

(53) STA 21+452 LT TO 21+487.2 LT
NEW 600 mm x 32.7 m RCP CLASS III OR CPEP(SL)
NEW 1.5 m PRCCB W/2 CI GRATES TYPE D AT 21+452 LT

(54) STA 21+487.2 LT TO 21+490.1 RT
NEW 450 mm x 15.4 m RCP CLASS III OR CPEP(SL)
NEW 1.2 m PRCCB W/CI GRATE TYPE D AT 21+490.1 RT

(55) STA 21+490.1 RT TO 36+025 LT
NEW 450 mm x 18.5 m RCP CLASS III OR CPEP(SL)
NEW 1.2 m PRCCB W/CI GRATE TYPE E AT 36+025 LT

(56) STA 36+025 LT TO 36+040 LT
NEW 450 mm x 15.9 m RCP CLASS III OR CPEP(SL)
NEW 1.2 m PRCCB W/CI GRATE TYPE E AT 36+040 LT

(57) STA 36+040 LT TO 36+065 LT
NEW 450 mm x 26.0 m RCP CLASS III OR CPEP(SL)
NEW 1.2 m PRCCB W/CI GRATE TYPE E AT 36+065 LT

(58) STA 36+065 LT TO 36+065 RT
NEW 450 mm x 14.1 m PCCSP (1.63) OR CAAP (1.52) OR
RCP CLASS III OR CPEP(SL)
NEW 1.2 m PRCCB W/CI GRATE TYPE D AT 36+065 RT

(59) STA 36+065 RT TO 36+065 RT
NEW 450 mm x 3.0 m PCCSP (1.63) OR CAAP (1.52) OR
RCP CLASS III OR CPEP(SL)
NEW 1.2 m PRCCB W/CI GRATE TYPE D AT 36+065 RT

(63) STA 21+487.2 LT TO 21+515 LT
NEW 600 mm x 22.3 m RCP CLASS III OR CPEP(SL)
CURVED PIPE (90.0 m RADIUS)
NEW 1.8 m PRCCB W/2 CI GRATES TYPE D AT 21+487.2 LT

(72) STA 30+050 LT TO 30+062.7 LT
NEW 450 mm x 11.4 m PCCSP (1.63) OR CAAP (1.52) OR
RCP CLASS III OR CPEP(SL)
NEW 1.5 m PRCCB W/2 CI GRATES TYPE D AT 30+050 LT

(73) STA 30+050 LT TO 30+053 RT
NEW 450 mm x 8.4 m PCCSP (1.63) OR CAAP (1.52) OR
RCP CLASS III OR CPEP(SL)
NEW 1.2 m PRCCB W/CI GRATE TYPE A AT 30+053 RT

EXISTING DRAINAGE

[13] STA 21+473.5 LT TO 21+474.1 RT
EXISTING 460 mm CGMP W/DI AT INLET - REMOVE

[14] STA 21+474.1 RT TO 21+474.2 RT
EXISTING 310 mm CGMP W/DI AT INLET - REMOVE

[15] STA 21+474.2 RT TO 21+480.6 RT
EXISTING 310 mm CGMP - REMOVE

[16] STA 21+473.5 LT TO 21+512.2 LT
EXISTING 460 mm CGMP W/DI AT INLET - REMOVE

UNDERDRAIN

(28) STA 21+433.0 LT TO 21+452.0 LT
NEW 200 mm x 19.0 m UNDERDRAIN
FLUSHING BASIN AT 21+433.0 LT

(29) STA 21+455.0 LT TO 21+487.2 LT
NEW 200 mm x 32.2 m UNDERDRAIN
FLUSHING BASIN AT 21+455.0 LT

(30) STA 21+490.0 LT TO 21+515.0 LT
NEW 200 mm x 25.0 m UNDERDRAIN
FLUSHING BASIN AT 21+490.0 LT

0 10 20 30
SCALE IN METERS

DRAINAGE PLAN 7

PROJECT NAME: BRANDON
PROJECT NUMBER: NH 019-3(496)

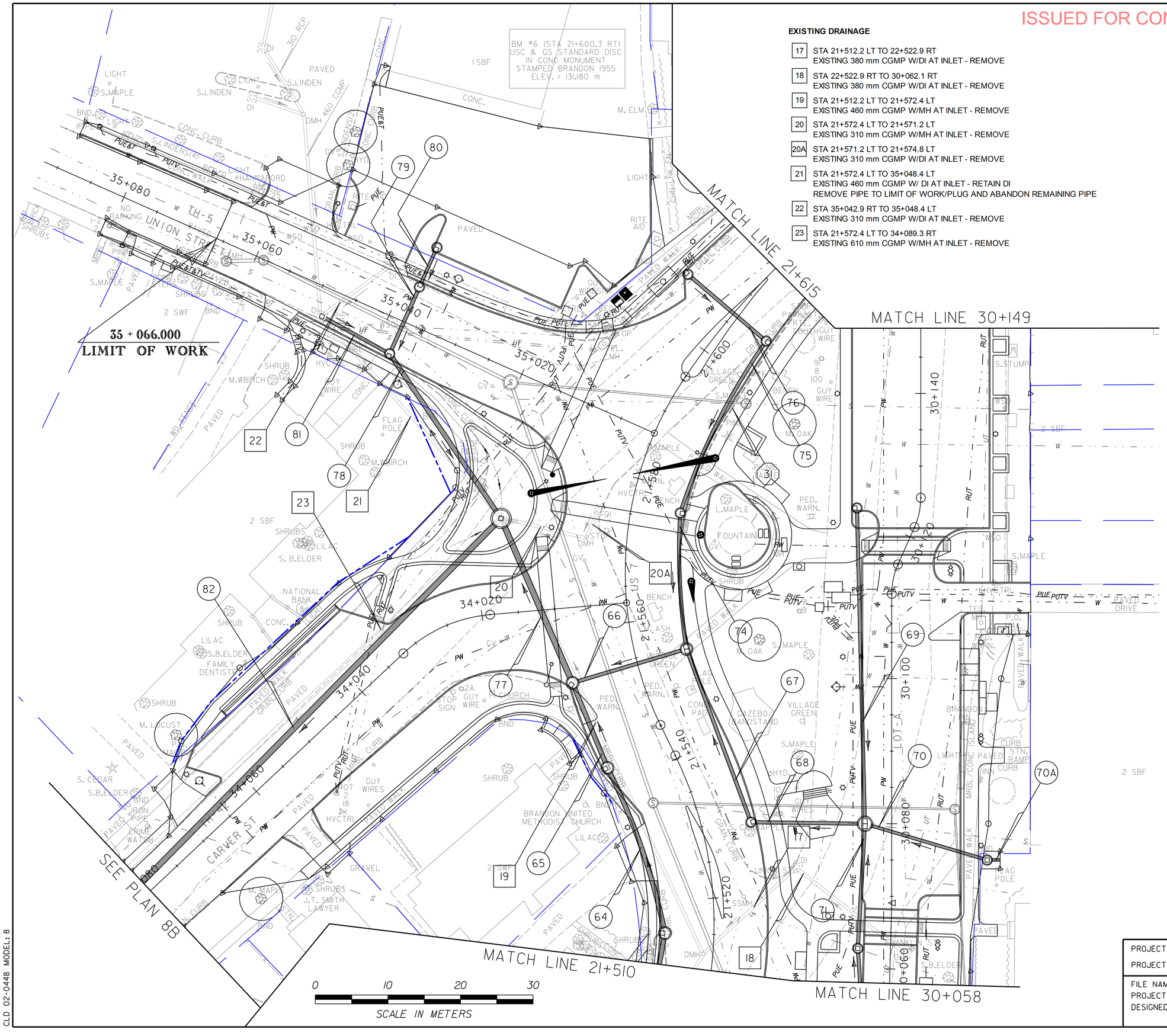
FILE NAME: zb008s6-drn.dgn
PROJECT LEADER: C. BEAN
DESIGNED BY: M. HALEY
PLOT DATE: 2/23/2017
DRAWN BY: M. HALEY
CHECKED BY: D. MUNRO
SHEET 169 OF 601

CLD 02-0448 MODEL: 7

ISSUED FOR CONSTRUCTION

VAOT Metric

VT STATE PLANE GRID N



EXISTING DRAINAGE

17 STA 21+512.2 LT TO 22+522.9 RT
EXISTING 380 mm CGMP W/DI AT INLET - REMOVE

18 STA 22+522.9 RT TO 30+062.1 RT
EXISTING 380 mm CGMP W/DI AT INLET - REMOVE

19 STA 21+512.2 LT TO 21+572.4 LT
EXISTING 460 mm CGMP W/MH AT INLET - REMOVE

20 STA 21+572.4 LT TO 21+571.2 LT
EXISTING 310 mm CGMP W/MH AT INLET - REMOVE

20A STA 21+571.2 LT TO 21+574.8 LT
EXISTING 310 mm CGMP W/DI AT INLET - REMOVE

21 STA 21+572.4 LT TO 35+048.4 LT
EXISTING 460 mm CGMP W/ DI AT INLET - RETAIN DI
REMOVE PIPE TO LIMIT OF WORK/PLUG AND ABANDON REMAINING PIPE

22 STA 35+042.9 RT TO 35+048.4 LT
EXISTING 310 mm CGMP W/DI AT INLET - REMOVE

23 STA 21+572.4 LT TO 34+089.3 RT
EXISTING 610 mm CGMP W/MH AT INLET - REMOVE

NEW DRAINAGE

64 STA 21+515 LT TO 21+543 LT
NEW 600 mm x 22.7 m RCP CLASS III OR CPEP(SL)
CURVED PIPE (90.0 m RADIUS)
NEW 1.5 m PRCCB W/CI GRATE TYPE D AT 21+515 LT

65 STA 21+543 LT TO 21+553.7 LT
NEW 600 mm x 11.1 m RCP CLASS III OR CPEP(SL)
NEW 1.5 m PRCCB W/CI GRATE TYPE D AT 21+543 LT

66 STA 21+553.7 LT TO 21+554.4 RT
NEW 450 mm x 14.9 m RCP CLASS III OR CPEP(SL)
NEW 1.5 m PRCCB W/2 CI GRATES TYPE D AT 21+554.4 RT

67 STA 21+529 RT TO 21+554.4 RT
NEW 450 mm x 24.1 m RCP CLASS III OR CPEP(SL)
NEW 1.2 m PRCCB W/CI GRATE TYPE D AT 21+529 RT

68 STA 21+529 RT TO 30+080 LT
NEW 450 mm x 14.2 m RCP CLASS IV
NEW 1.8 m PRCCB W/2 STEEL GRATES AT 30+080 LT

69 STA 30+080 LT TO 30+120.1 LT
NEW 450 mm x 42.0 m RCP CLASS III OR CPEP(SL)
NEW 1.2 m PRCCB W/ STEEL GRATE AT 30+120.1 LT

70 STA 30+075 RT TO 30+080 LT
NEW 375 mm x 16.1 m PCCSP (1.63) OR CAAP (1.52) OR
RCP CLASS III OR CPEP(SL)
NEW 1.2 m PRCCB W/CI GRATE TYPE D AT 30+075.0 RT

70A STA 30+075 RT TO 30+075 RT
NEW 375 mm x 1.2 m PCCSP (1.63) OR CAAP (1.52)
CAP FOR FUTURE CONNECTION

71 STA 30+062.7 LT TO 30+080 LT
NEW 450 mm x 15.7 m PCCSP (1.63) OR CAAP (1.52) OR
RCP CLASS III OR CPEP(SL)
NEW 1.2 m PRCCB W/ STEEL GRATE AT 30+062.7 LT

74 STA 21+554.4 RT TO 21+576.5 RT
NEW 450 mm x 17.4 m RCP CLASS III OR CPEP(SL)
CURVED PIPE (90.0 m RADIUS)
NEW 1.2 m PRCCB W/CI GRATE TYPE D AT 21+576.5 RT

75 STA 21+576.5 RT TO 21+606.5 RT
NEW 450 mm x 25.4 m PCCSP (1.63) OR CAAP (1.52) OR
RCP CLASS III OR CPEP(SL)
CURVED PIPE (90.0 m RADIUS)
NEW 1.2 m PRCCB W/CI GRATE TYPE D AT 21+606.5 RT

76 STA 21+606.5 LT/RT
NEW 450 mm x 13.0 m RCP CLASS III OR CPEP(SL)
NEW 1.2 m PRCCB W/CI GRATE TYPE D AT 21+606.5 LT

77 STA 21+553.7 LT TO 21+572.4 LT
NEW 750 mm x 22.8 m RCP CLASS III OR CPEP(SL)
NEW 1.5 m PRCCB W/CI GRATE TYPE D AT 21+553.7 LT

78 STA 21+572.4 LT TO 35+037.8 LT
NEW 600 mm x 25.6 m RCP CLASS III OR CPEP(SL)
NEW 1.2 m PRCCB W/CI GRATE TYPE D AT 35+037.8 LT

79 STA 35+037.8 LT/RT
NEW 450 mm x 8.9 m PCCSP (1.63) OR CAAP (1.52) OR
RCP CLASS III OR CPEP(SL)
NEW 1.2 m PRCCB W/CI GRATE TYPE D AT 35+037.8 RT

80 STA 35+037.8 RT TO 35+037.8 RT
NEW 375 mm x 4.8 m PCCSP (1.63) OR CAAP (1.52) OR
RCP CLASS III OR CPEP(SL)
NEW 1.2 m PRCCB W/CI GRATE TYPE D AT 35+037.8 RT

81 STA 35+037.8 LT TO 35+048.4 LT
NEW 450 mm x 9.5 m PCCSP (1.63) OR CAAP (1.52) OR
CLASS III OR CPEP(SL)
REHABILITATION OF DI, CB, OR MH, CLASS II AT 35+048.4 LT
NEW FRAME/CI GRATE TYPE D

82 STA 21+572.4 LT TO 34+083.0 RT
NEW 750 mm x 71.3 m RCP CLASS III OR CPEP(SL)
NEW 2.4 m PRCCB W/CI GRATE TYPE D AT 21+572.4 LT

UNDERDRAIN

31 STA 21+576.5 RT TO 21+617.9 RT
NEW 200 mm x 41.4 m UNDERDRAIN
FLUSHING BASIN AT 21+617.9 RT

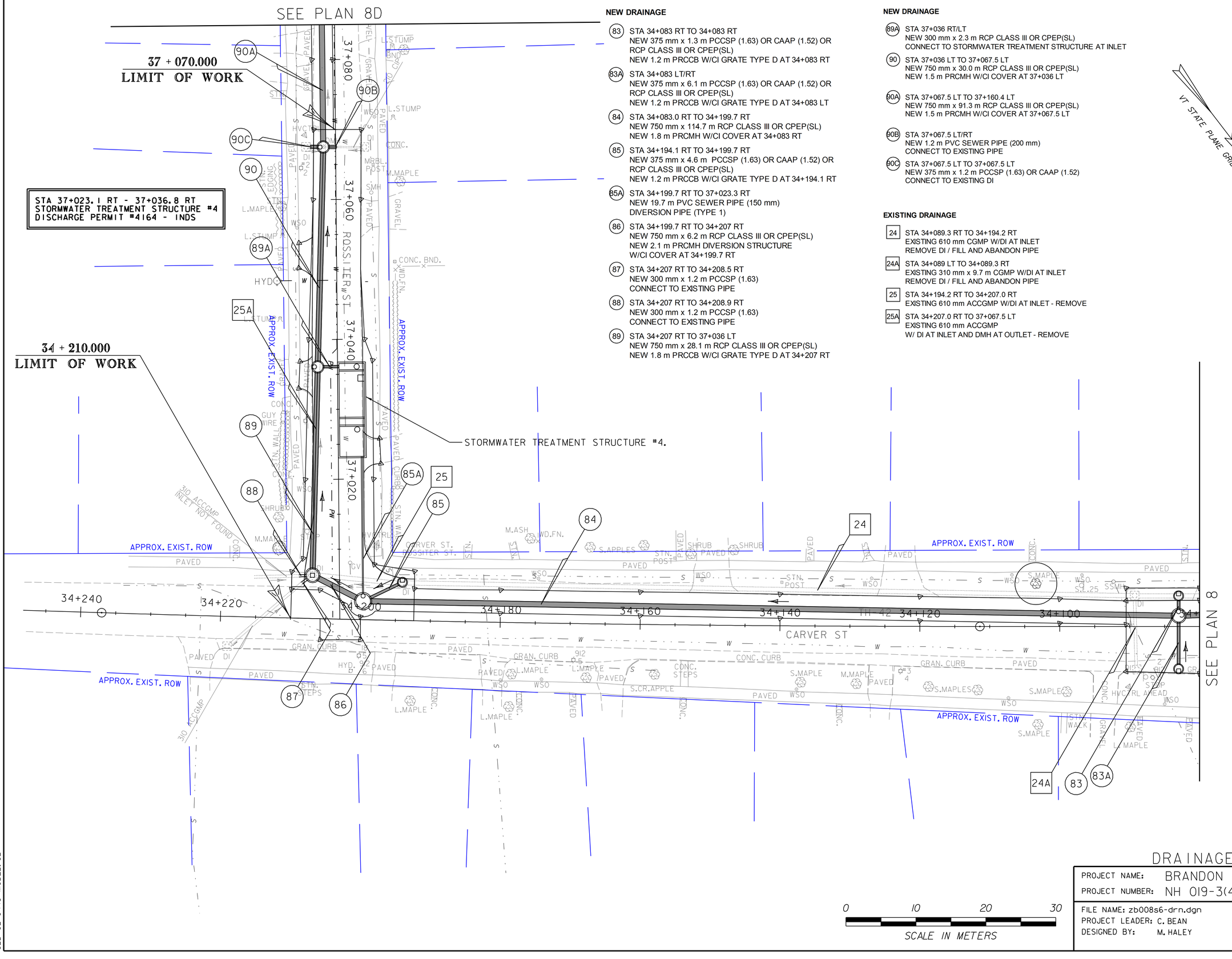
DRAINAGE PLAN 8

PROJECT NAME:	BRANDON
PROJECT NUMBER:	NH 019-3(496)
FILE NAME: zb008s6-drn.dgn	PLOT DATE: 2/23/2017
PROJECT LEADER: C. BEAN	DRAWN BY: M. HALEY
DESIGNED BY: M. HALEY	CHECKED BY: D. MUNRO
	SHEET 170 OF 601

CLD 02-0448 MODEL: 8

ISSUED FOR CONSTRUCTION

VAOT Metric



NEW DRAINAGE

(83) STA 34+083 RT TO 34+083 RT
NEW 375 mm x 1.3 m PCCSP (1.63) OR CAAP (1.52) OR RCP CLASS III OR CPEP(SL)
NEW 1.2 m PRCCB W/CI GRATE TYPE D AT 34+083 RT

(83A) STA 34+083 LT/RT
NEW 375 mm x 6.1 m PCCSP (1.63) OR CAAP (1.52) OR RCP CLASS III OR CPEP(SL)
NEW 1.2 m PRCCB W/CI GRATE TYPE D AT 34+083 LT

(84) STA 34+083.0 RT TO 34+199.7 RT
NEW 750 mm x 114.7 m RCP CLASS III OR CPEP(SL)
NEW 1.8 m PRCMH W/CI COVER AT 34+083 RT

(85) STA 34+194.1 RT TO 34+199.7 RT
NEW 375 mm x 4.6 m PCCSP (1.63) OR CAAP (1.52) OR RCP CLASS III OR CPEP(SL)
NEW 1.2 m PRCCB W/CI GRATE TYPE D AT 34+194.1 RT

(85A) STA 34+199.7 RT TO 37+023.3 RT
NEW 19.7 m PVC SEWER PIPE (150 mm)
DIVERSION PIPE (TYPE 1)

(86) STA 34+199.7 RT TO 34+207 RT
NEW 750 mm x 6.2 m RCP CLASS III OR CPEP(SL)
NEW 2.1 m PRCMH DIVERSION STRUCTURE
W/CI COVER AT 34+199.7 RT

(87) STA 34+207 RT TO 34+208.5 RT
NEW 300 mm x 1.2 m PCCSP (1.63)
CONNECT TO EXISTING PIPE

(88) STA 34+207 RT TO 34+208.9 RT
NEW 300 mm x 1.2 m PCCSP (1.63)
CONNECT TO EXISTING PIPE

(89) STA 34+207 RT TO 37+036 LT
NEW 750 mm x 28.1 m RCP CLASS III OR CPEP(SL)
NEW 1.8 m PRCCB W/CI GRATE TYPE D AT 34+207 RT

NEW DRAINAGE

(89A) STA 37+036 RT/LT
NEW 300 mm x 2.3 m RCP CLASS III OR CPEP(SL)
CONNECT TO STORMWATER TREATMENT STRUCTURE AT INLET

(90) STA 37+036 LT TO 37+067.5 LT
NEW 750 mm x 30.0 m RCP CLASS III OR CPEP(SL)
NEW 1.5 m PRCMH W/CI COVER AT 37+036 LT

(90A) STA 37+067.5 LT TO 37+160.4 LT
NEW 750 mm x 91.3 m RCP CLASS III OR CPEP(SL)
NEW 1.5 m PRCMH W/CI COVER AT 37+067.5 LT

(90B) STA 37+067.5 LT/RT
NEW 1.2 m PVC SEWER PIPE (200 mm)
CONNECT TO EXISTING PIPE

(90C) STA 37+067.5 LT TO 37+067.5 LT
NEW 375 mm x 1.2 m PCCSP (1.63) OR CAAP (1.52)
CONNECT TO EXISTING DI

EXISTING DRAINAGE

(24) STA 34+089.3 RT TO 34+194.2 RT
EXISTING 610 mm CGMP W/DI AT INLET
REMOVE DI / FILL AND ABANDON PIPE

(24A) STA 34+089 LT TO 34+089.3 RT
EXISTING 310 mm x 9.7 m CGMP W/DI AT INLET
REMOVE DI / FILL AND ABANDON PIPE

(25) STA 34+194.2 RT TO 34+207.0 RT
EXISTING 610 mm ACCGMP W/DI AT INLET - REMOVE

(25A) STA 34+207.0 RT TO 37+067.5 LT
EXISTING 610 mm ACCGMP
W/ DI AT INLET AND DMH AT OUTLET - REMOVE

VT STATE PLANE GRID N.

0 10 20 30
SCALE IN METERS

DRAINAGE PLAN 8B

PROJECT NAME: BRANDON
PROJECT NUMBER: NH 019-3(496)

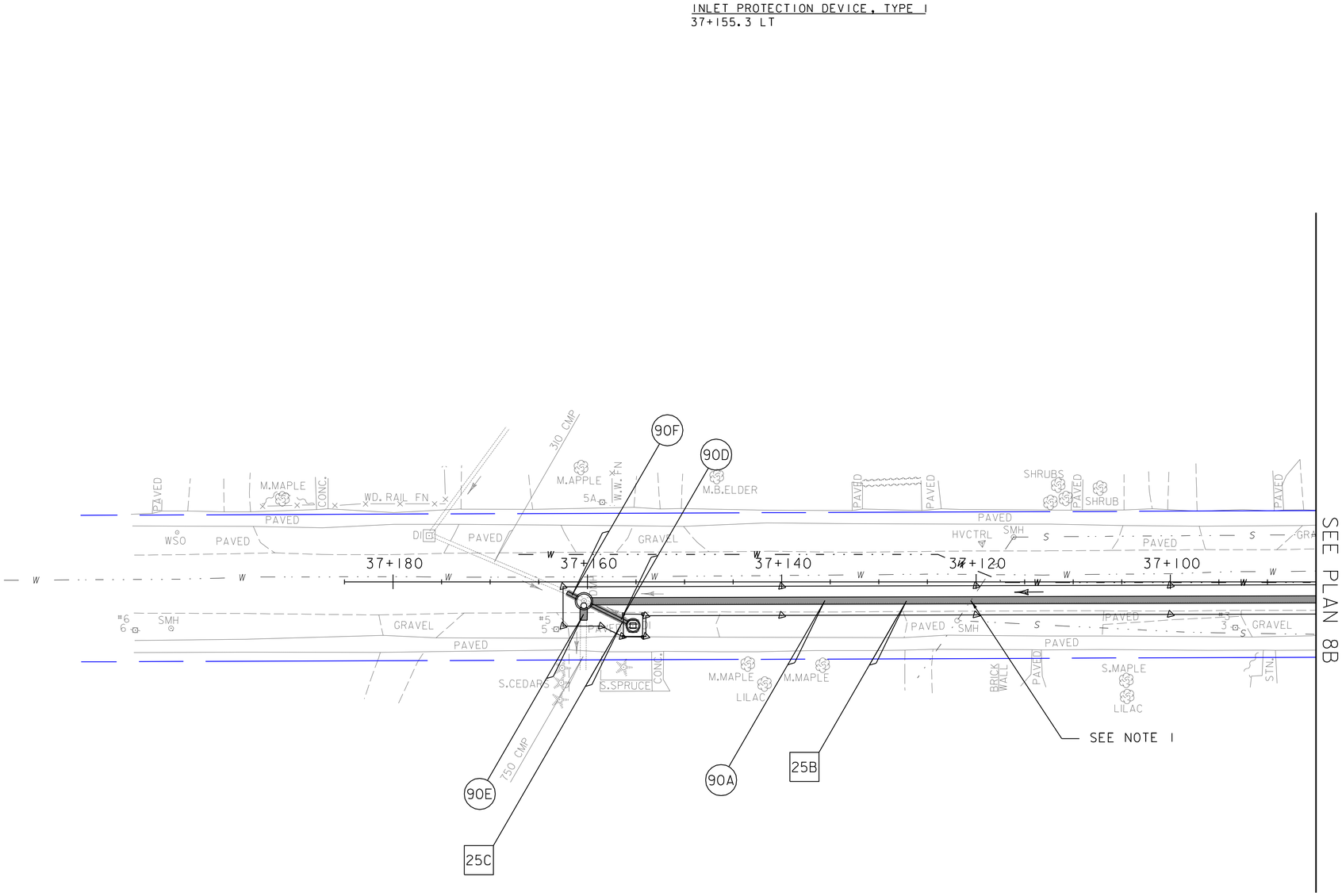
FILE NAME: zb008s6-drn.dgn
PROJECT LEADER: C. BEAN
DESIGNED BY: M. HALEY
PLOT DATE: 2/23/2017
DRAWN BY: M. HALEY
CHECKED BY: D. MUNRO
SHEET 171 OF 601

CLD 02-0448 MODEL: 8B

ISSUED FOR CONSTRUCTION

VAOT Metric

INLET PROTECTION DEVICE, TYPE I
37+155.3 LT



NEW DRAINAGE

90A SEE PREVIOUS SHEET

90D STA 37+155.3 LT TO 37+160.4 LT
NEW 300 mm X 4.3 m CPEP(SL)
NEW 1.2m PRCCB W/CI GRATE TYPE D AT 37+155.3 LT

90E STA 37+160.4 LT TO 37+160.4 LT
NEW 750 mm x 1.2 m PCCSP (2.01)
CONNECT TO EXISTING PIPE
NEW 1.5 m PRCMH W/CI COVER AT 37+160.4 LT

90F STA 37+160.4 LT TO 37+162.1 LT
NEW 300 mm x 1.2 m PCCSP (1.63)
CONNECT TO EXISTING PIPE

EXISTING DRAINAGE

25B STA 37+067.5 LT TO 37+160.4 LT
EXISTING 610 mm CMP W/ DMH AT INLET AND OUTLET - REMOVE

25C STA 37+155.3 LT TO 37+160.4 LT
EXISTING 300 mm CMP W/ DI AT INLET - REMOVE

NOTES

1. VERIFY DEPTH OF SEWER AT DRAINAGE CROSSING. NEW DRAINAGE TO PASS UNDER EXISTING SEWER. REPLACE ANY IMPACTED SEWER WITHIN TRENCH LIMITS WITH 250 mm DIAMETER C-900 PVC SEWER PIPE.

2. CONTRACTOR SHALL AVOID/PROTECT EXISTING WATER AND SEWER SERVICES THAT MAY BE ENCOUNTERED DURING INSTALLATION OF NEW DRAINAGE. REPLACEMENT OF SERVICE PIPE OR TUBING DUE TO A CONFLICT OR CONDITION OF SERVICE; SHALL BE APPROVED BY THE ENGINEER AND SHALL GENERALLY BE CONFINED TO THE LIMITS OF CONSTRUCTION AS SHOWN ON THIS PLAN OR AS DIRECTED BY THE ENGINEER.

0 10 20 30
SCALE IN METERS

DRAINAGE PLAN 8D

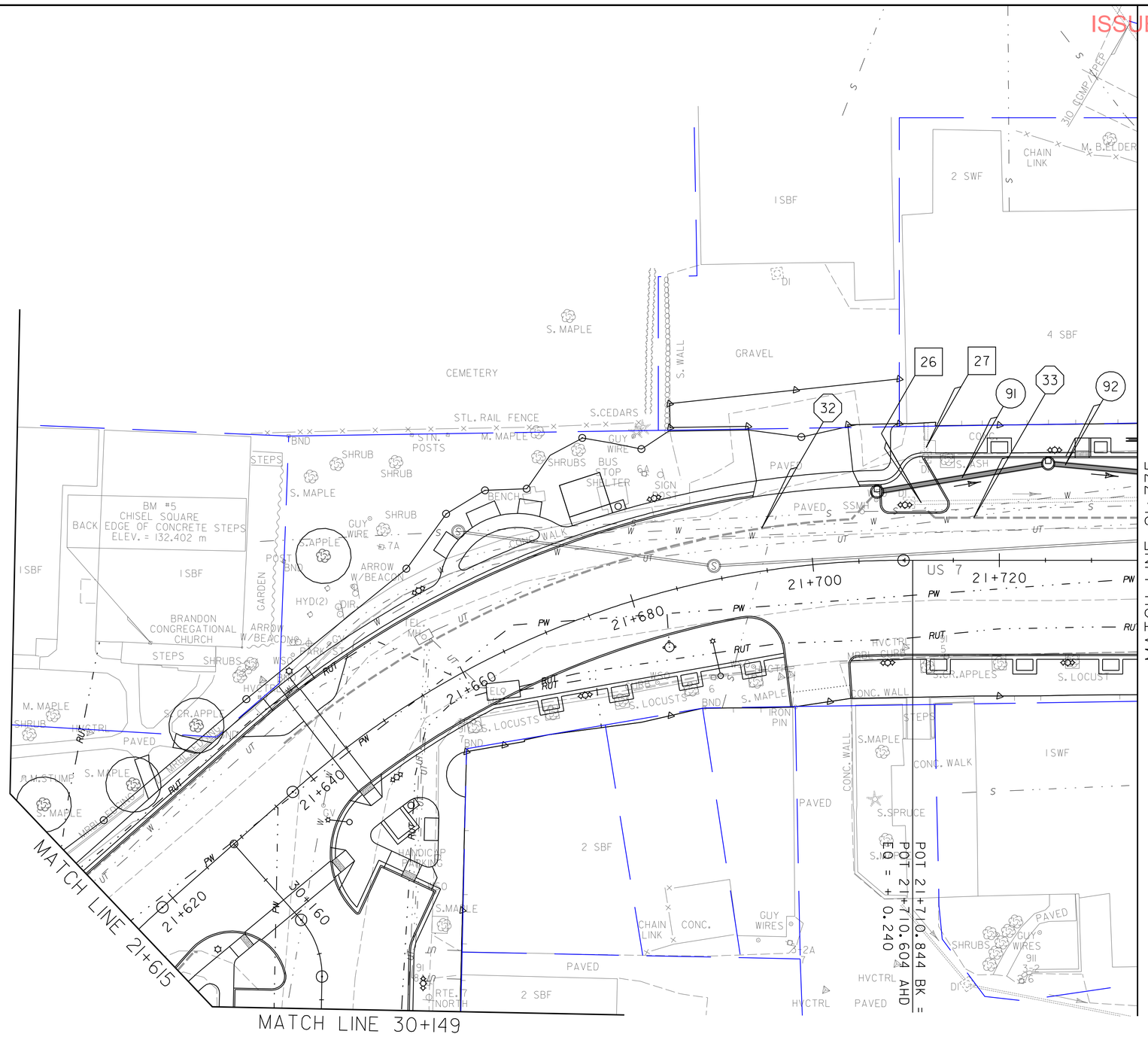
PROJECT NAME: BRANDON
PROJECT NUMBER: NH 019-3(496)

FILE NAME: zb008s6-drn.dgn
PROJECT LEADER: C. BEAN
DESIGNED BY: M. HALEY
PLOT DATE: 2/23/2017
DRAWN BY: M. HALEY
CHECKED BY: D. MUNRO
SHEET 172 OF 601

CLD 02-0448 MODEL: 8D

ISSUED FOR CONSTRUCTION

VAOT Metric



NEW DRAINAGE

(91) STA 21+707.2 LT TO 21+725.3 LT
NEW 450 mm x 17.6 m PCCSP (1.63) OR CAAP (1.52) OR
RCP CLASS III OR CPEP(SL)
NEW 1.2 m PRCCB W/CI GRATE TYPE D AT 21+707.2 LT

(92) STA 21+725.3 LT TO 21+755.6 LT
NEW 450 mm x 28.3 m PCCSP (1.63) OR CAAP (1.52) OR
RCP CLASS III OR CPEP(SL)
NEW 1.2 m PRCCB W/CI GRATE TYPE D AT 21+725.3 LT

EXISTING DRAINAGE

[26] STA 21+710.4 LT TO 21+747.6 LT
EXISTING 310 mm CGMP W/DI AT INLET - REMOVE

[27] STA 21+712.0 LT TO 21+712.1 LT
EXISTING 380 mm CGMP W/DI AT INLET - OUTLET NOT FOUND
REMOVE DI; REMOVE PIPE TO LIMIT OF WORK;
PLUG AND ABANDON REMAINING PIPE

UNDERDRAIN

(32) STA 21+640.0 LT TO 21+707.2 LT
NEW 200 mm x 67.0 m UNDERDRAIN

(33) STA 21+713.0 LT TO 21+755.6 LT
NEW 200 mm x 42.6 m UNDERDRAIN
FLUSHING BASIN AT 21+713.0 LT

0 10 20 30
SCALE IN METERS

DRAINAGE PLAN 9

PROJECT NAME: BRANDON
PROJECT NUMBER: NH 019-3(496)

FILE NAME: zb008s6-drn.dgn
PROJECT LEADER: C. BEAN
DESIGNED BY: M. HALEY
PLOT DATE: 2/23/2017
DRAWN BY: M. HALEY
CHECKED BY: D. MUNRO
SHEET 173 OF 601

CLD 02-0448 MODEL: 9

ISSUED FOR CONSTRUCTION

VAOT Metric

VT STATE PLANE GRID N

MATCH LINE 21+735

MATCH LINE 21+870

BM #4
CHISEL SQUARE
TOP OF CONC. WALL
ELEV. = 125.526

GRADE TO DRAIN

GRADE TO DRAIN

9 + 090.000
LIMIT OF WORK

TH-52
MILL LANE

WEST SEMINARY STREET
TH-69

0 10 20 30
SCALE IN METERS

NEW DRAINAGE

93 STA 21+755.6 LT TO 21+756.7 RT
NEW 450 mm x 15.3 m RCP CLASS III OR CPEP(SL)
NEW 1.2 m PRCCB W/CI GRATE TYPE D AT 21+756.7 RT

94 STA 21+755.6 LT TO 21+781.0 LT
NEW 450 mm x 23.2 m CPEP(SL)
CONNECT TO EXIST. PIPE AT OUTLET
NEW 1.2 m PRCCB W/CI GRATE TYPE D AT 21+755.6 LT

95 STA 21+785.2 LT TO 21+800 LT
450 mm x 13.2 m CPEP(SL) W/
1.5 m PRCCB W/2 CI GRATES TYPE D AT 21+800 LT
INSTALLED UNDER BHF 019-3(58)

96 STA 21+800 LT TO 21+805 RT
NEW 450 mm x 11.9 m CPEP(SL)
CONNECT TO EXIST. PIPE AT 21+800 LT
INSTALLED UNDER BHF 019-3(58)
NEW 1.2 m PRCCB W/CI GRATE TYPE D AT 21+805 RT

97 INTENTIONALLY LEFT BLANK

98 INTENTIONALLY LEFT BLANK

99 INTENTIONALLY LEFT BLANK

100 STA 9+014 LT TO 21+849 RT
NEW 450 mm x 14.4 m RCP CLASS IV
NEW 1.2 m PRCCB W/CI GRATE TYPE E AT 9+014 LT

101 STA 9+014 LT TO 9+022 LT
NEW 450 mm x 6.8 m RCP CLASS IV
NEW 1.5 m PRCCB W/CI GRATE TYPE D AT 9+022 LT

102 STA 9+022 RT/LT
NEW 450 mm x 5.6 m RCP CLASS IV
NEW 1.5 m PRCCB W/CI GRATE TYPE E AT 9+022 RT

103 STA 9+022 RT TO 9+042.3 RT
NEW 375 mm x 19.9 m RCP CLASS IV
NEW 1.2 m PRCCB W/CI GRATE TYPE E AT 9+043 RT

104 STA 9+022 LT TO 9+035 LT
NEW 375 mm x 11.9 m RCP CLASS IV
NEW 1.2 m PRCCB W/CI GRATE TYPE E AT 9+035 LT

104A STA 9+035 LT TO 9+035 LT
NEW 375 mm x 1.2 m PCCSP (1.63) OR CAAP (1.52)
FOR FUTURE CONNECTION

105 STA 9+035 LT TO 9+048.7 LT
NEW 375 mm x 14.9 m RCP CLASS IV
NEW 1.2 m PRCCB W/CI GRATE TYPE E AT 9+051 LT

106 STA 9+048.7 LT TO 9+060 LT
NEW 375 mm x 7.6 m RCP CLASS IV
NEW 1.2 m PRCCB W/CI GRATE TYPE E AT 9+060 LT

107 STA 21+849 RT TO 21+865 RT
NEW 450 mm x 15.6 m RCP CLASS IV
NEW 1.2 m PRCCB W/CI GRATE TYPE E AT 21+849 RT

108 STA 21+865 RT TO 21+873 LT
NEW 450 mm x 10.3 m PCCSP (1.63) OR CAAP (1.52) OR
RCP CLASS III OR CPEP(SL)
NEW 1.2 m PRCCB W/CI GRATE TYPE E AT 21+865 RT

EXISTING DRAINAGE

27A STA 21+747.6 LT TO 21+758.5 LT
EXISTING 380 mm CGMP W/ DI AT INLET
REMOVE DI; REMOVE PIPE TO LIMIT OF WORK;
PLUG AND ABANDON REMAINING PIPE

28 STA 21+781.7 RT TO 21+781.8 RT
EXISTING 250 mm CI W/DI AT INLET
REMOVE DI / PLUG AND ABANDON PIPE

29 STA 21+783.1 LT
EXISTING 1.5 m PRCCB AT OVERFLOW CULVERT
ADJUST ELEVATION OF FRAME/GRATE

30 STA 21+802.3 LT TO 21+803.7 LT
EXISTING 310 mm CGMP W/DI AT INLET
REMOVED UNDER BHF 019-3(58)

31 STA 21+806.3 RT TO 21+811.8 RT
EXISTING 310 mm VCP W/DI AT INLET
REMOVE DI / PLUG AND ABANDON PIPE

32 STA 9+019.5 RT TO 9+029.3 RT
EXISTING 250 mm VCP W/DI AT INLET
REMOVE DI / PLUG AND ABANDON PIPE

EXISTING DRAINAGE

33 STA 9+029.3 RT TO 9+050.7 LT
EXISTING 310 mm CGMP W/DI AT INLET - REMOVE

34 STA 9+052.8 RT TO 9+059.5 RT
EXISTING 250 mm CGMP W/DI AT INLET - OUTLET NOT FOUND
REMOVE DI / PLUG AND ABANDON PIPE

35 STA 21+845.5 RT TO 21+848.9 RT
EXISTING 310 mm RCP W/DI AT INLET - REMOVE

36 STA 21+848.9 RT TO 21+859.3 RT
EXISTING 310 mm RCP W/DI AT INLET - REMOVE

37 STA 21+859.3 RT TO 21+889.8 RT
EXISTING 310 mm RCP W/DI AT INLET - REMOVE

UNDERDRAIN

34 STA 21+757.0 LT TO 21+781.8 LT
NEW 200 mm x 24.1 m UNDERDRAIN
CONNECT TO EXIST. PIPE AT OUTLET

35 STA 21+784.3 LT TO 21+800.0 LT
NEW 200 mm x 15.3 m UNDERDRAIN
CONNECT TO EXIST. PIPE AT OUTLET

36 STA 21+840.5 LT TO 21+873.0. LT
NEW 200 mm x 30.0 m UNDERDRAIN
CONNECT TO EXIST. UNDERDRAIN AT 21+840.5 LT
INSTALLED UNDER BHF 019-3(58) AND
FLOW FILL TO ABANDON REMAINING BHF 019-3(58)
UNDERDRAIN FROM 21+830.2 TO 21+840.5 LT

DRAINAGE PLAN 10

PROJECT NAME: BRANDON
PROJECT NUMBER: NH 019-3(496)

FILE NAME: zb008s6-drn.dgn
PROJECT LEADER: C. BEAN
DESIGNED BY: M. HALEY
PLOT DATE: 2/23/2017
DRAWN BY: M. HALEY
CHECKED BY: D. MUNRO
SHEET 174 OF 601

CLD 02-0448 MODEL: 10

ISSUED FOR CONSTRUCTION

VAOT Metric

STA 21+876.1 LT - 21+884.4 LT
STORMWATER TREATMENT STRUCTURE #2
DISCHARGE PERMIT #4164 - INDS

EXISTING DRAINAGE

38 STA 21+876.4 RT TO 21+889.8 RT
EXISTING 250 mm CGMP - INLET NOT FOUND
REMOVE PIPE TO LIMIT OF WORK / PLUG AND ABANDON REMAINING PIPE

39 STA 21+887.1 LT TO 21+888.9 LT
EXISTING 460 mm CGMP W/DI AT INLET
REMOVE DI / PLUG AND ABANDON PIPE

39A STA 21+891.3 LT TO 21+892.1 RT
1370 x 1370 mm STONE BOX CULVERT - INLET NOT FOUND
FILL AND ABANDON CULVERT
EXISTING MH AT 21+889.8 RT - REMOVE

40 STA 21+889.8 RT TO 21+901.9 RT
EXISTING 310 mm PVC W/DI AT INLET - REMOVE

EXISTING DRAINAGE

41 STA 21+894.6 RT TO 21+895.7 RT
EXISTING 760 mm CGMP W/DI AT INLET
REMOVE DI AND PIPE WITHIN EXCAVATION FOR NEW PIPE
PLUG AND ABANDON REMAINING PIPE

42 STA 21+901.9 RT TO 21+944.7 RT
EXISTING 310 mm PVC W/DI AT INLET- REMOVE

43 STA 21+944.7 RT TO 21+961.2 RT
EXISTING 200 mm PVC W/DI AT INLET- REMOVE

44 STA 21+944.7 RT TO 8+009.1 RT
EXISTING 310 mm PVC W/DI AT INLET- REMOVE

45 STA 8+009.1 RT TO 8+059.9 RT
EXISTING 310 mm PVC W/DI AT INLET- REMOVE 33.3 m OF PIPE FROM OULET. CONNECT INLET TO NEW PIPE AT 8+041.9 RT

NEW DRAINAGE

109 STA 21+873 LT TO 21+876.8 LT
NEW 6.4 m PVC SEWER PIPE (100 mm)
DIVERSION PIPE (TYPE 1)

110 STA 21+873 LT TO 21+876.8 LT
NEW 750 mm x 12.9 m PCCSP (2.01) OR CAAP (1.91)
NEW 2.1 m PRCCB DIVERSION STRUCTURE W/CI GRATE TYPE D AT 21+873 LT
CONNECT TO STORMWATER TREATMENT STRUCTURE AT OUTLET

111 STA 21+882.6 LT TO 21+888.9 LT
NEW 1500 mm x 21.5 m RCP CLASS IV
CONNECT TO STORMWATER TREATMENT STRUCTURE AT INLET
NEW SPECIAL CRADLE HEADWALL AT OUTLET, SEE DRAINAGE DETAILS
E-STONE, TYPE E4 CHANNEL AT OUTLET

112 STA 21+890.2 LT TO 21+891.2 LT
NEW 450 mm x 10.0 m PCCSP (1.63) OR CAAP (1.52) W/ES AT INLET
NEW SPECIAL CRADLE HEADWALL AT OUTLET, SEE DRAINAGE DETAILS
STONE FILL, TYPE I PAD AT INLET (4.0 x 3.0 m)

113 STA 21+871.3 RT TO 21+882.3 LT
NEW 1350 mm x 42.5 m RCP CLASS III
NEW 2.4 m PRCMH W/CI COVER AT 21+871.3 RT
CONNECT TO STORMWATER TREATMENT STRUCTURE AT OUTLET

114 STA 21+871.3 RT TO 21+880.1 RT
NEW 1350 mm x 47.6 m RCP CLASS III
NEW 2.4 m PRCMH W/CI COVER AT 21+880.1 RT

115 SEE NEXT SHEET

116 STA 21+880.1 RT TO 21+895.4 RT
NEW 750 mm x 16.2 m RCP CLASS III OR CPEP(SL)
NEW 1.8 m PRCMH W/ CI COVER AT 21+895.4 RT

117 SEE NEXT SHEET

118 STA 21+873 LT TO 21+895.4 LT
NEW 750 mm x 19.9 m RCP CLASS III OR CPEP(SL)
NEW 1.8 m PRCCB W/ 2 STEEL GRATES AT 21+895.4 LT
AVOID/PROTECT FOOTING FOR RETAINING WALL #2
BACKFILL AND COMPACT PER SUBSECTION 203.11(d)

119 STA 21+895.4 LT/RT
NEW 750 mm x 6.4 m RCP CLASS III OR CPEP(SL)
NEW 2.1 m PRCCB W/ 2 STEEL GRATES AT 21+895.4 RT

120 STA 21+895.4 LT TO 21+907 LT
NEW 450 mm x 10.1 m PCCSP (1.63) OR CAAP (1.52) OR RCP CLASS III OR CPEP(SL)
NEW 1.2 m PRCCB W/CI GRATE TYPE E AT 21+907 LT

121 STA 21+895.4 RT TO 21+902 RT
NEW 750 mm x 4.8 m RCP CLASS III OR CPEP(SL)
NEW 1.5 m PRCCB W/TYPE D GRATE AT 21+902 RT

122 STA 21+902 RT TO 21+902 RT
NEW 375 mm x 1.2 m RCP CLASS III OR CPEP(SL)
CONNECT TO EXIST. 375 mm PIPE

123 STA 21+902 RT TO 21+934 RT
NEW 600 mm x 30.6 m RCP CLASS III OR CPEP(SL)
NEW 1.2 m PRCCB W/CI GRATE TYPE E AT 21+934 RT

124 STA 21+934 RT TO 21+946 RT
NEW 600 mm x 10.7 m RCP CLASS III OR CPEP(SL)
NEW 1.5 m PRCCB W/CI GRATE TYPE D AT 21+946 RT

125 STA 21+946 RT TO 8+013.5 RT
NEW 600 mm x 7.7 m PCCSP (1.63) OR CAAP (1.52)
NEW 1.2 m PRCCB W/CI GRATE TYPE E AT 8+013.5 RT

126 STA 8+013.5 RT TO 8+040 RT
NEW 600 mm x 25.9 m RCP CLASS III OR CPEP(SL)
NEW 1.5 m PRCMH W/CI COVER AT 8+040 RT

127 STA 8+040 RT TO 8+041.9 RT
NEW 1.2 m PVC SEWER PIPE (300 mm)
CONNECT TO EXISTING PIPE

128 STA 8+040 LT/RT
NEW 375 mm x 4.7 m RCP CLASS III OR CPEP(SL)
NEW 1.2 m PRCCB W/CI GRATE TYPE E AT 8+040 LT

129 STA 8+040 LT TO 8+050 LT
NEW 375 mm x 8.7 m RCP CLASS III OR CPEP(SL)
NEW 1.2 m PRCCB W/CI GRATE TYPE E AT 8+050 LT

130 STA 21+946 RT TO 21+963 RT
NEW 450 mm x 15.3 m PCCSP (1.63) OR CAAP (1.52) OR RCP CLASS III OR CPEP(SL)
NEW 1.5 m PRCCB W/CI GRATE TYPE E AT 21+963 RT

131 STA 21+960.5 LT TO 21+963 RT
NEW 450 mm x 10.6 m RCP CLASS III OR CPEP(SL)
NEW 1.2 m PRCCB W/CI GRATE TYPE E AT 21+960.5 LT

132 STA 21+963 RT TO 22+000 RT
NEW 450 mm x 35.9 m PCCSP (1.63) OR CAAP (1.52) OR RCP CLASS III OR CPEP(SL)
NEW 1.2 m PRCCB W/CI GRATE TYPE D AT 22+000 RT

UNDERDRAIN

37 STA 21+907.0 LT TO 21+960.0 LT
NEW 200 mm x 53.0 m UNDERDRAIN

38 STA 21+960.5 LT TO 22+017.0 LT
NEW 200 mm x 56.5 m UNDERDRAIN
FLUSHING BASIN AT 22+017.0 LT

39 STA 21+963.0 RT TO 21+999.0 RT
NEW 200 mm x 36.0 m UNDERDRAIN
FLUSHING BASIN AT 21+999.0 RT

STORMWATER TREATMENT STRUCTURE #2

MATCH LINE 21+870

MATCH LINE 21+995

US 7 STA 21+876.782

ADDITIONAL SHEETING MAY BE REQUIRED TO EXCAVATE IN VICINITY OF EXISTING UNDERGROUND TANK.

EXACT LOCATION OF EXISTING SEWER UNKNOWN. PERFORM EXPLORATORY EXCAVATION

EXACT LOCATION OF EXISTING SEWER UNKNOWN. PERFORM EXPLORATORY EXCAVATION

8 + 060.000
LIMIT OF WORK

SEE DRAINAGE PLAN IIA FOR DETAILS

SEE PLAN IIA

VT STATE PLANE GRID

N

0 10 20 30
SCALE IN METERS

DRAINAGE PLAN II

PROJECT NAME: BRANDON
PROJECT NUMBER: NH 019-3(496)

FILE NAME: zb008s6-drn.dgn
PROJECT LEADER: C. BEAN
DESIGNED BY: M. HALEY
PLOT DATE: 2/23/2017
DRAWN BY: M. HALEY
CHECKED BY: D. MUNRO
SHEET 175 OF 601

CLD 02-0448 MODEL: II

ISSUED FOR CONSTRUCTION

VAOT Metric

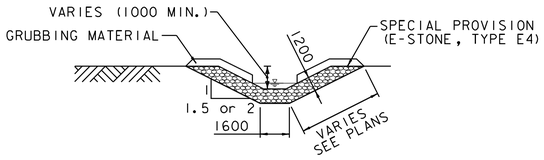
NEW DRAINAGE

(115) STA 21+880.1 RT TO 21+884.2 RT
NEW 1050 mm x 37.0 m RCP CLASS III
NEW FULL HEADWALL AND DEBRIS RACK, TYPE A AT INLET
E-STONE, TYPE E2 CHANNEL AT INLET

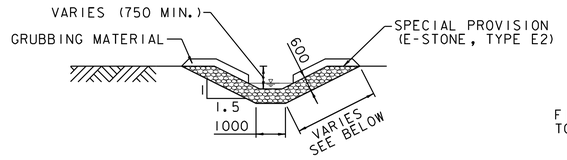
(117) STA 21+895.4 RT TO 21+896 RT
NEW 750 mm x 20.3 m RCP CLASS III OR CPEP(SL) W/ES
AND DEBRIS RACK, TYPE B AT INLET
E-STONE, TYPE E2 OVERFLOW CHANNEL AT INLET

EXISTING DRAINAGE

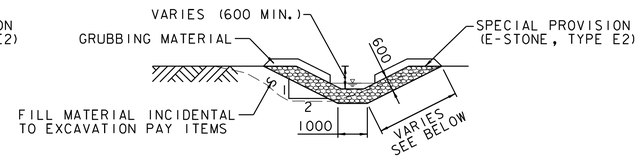
[46] STA 21+888.6 RT TO 21+895.7 RT
EXISTING 760 mm CGMP - REMOVE



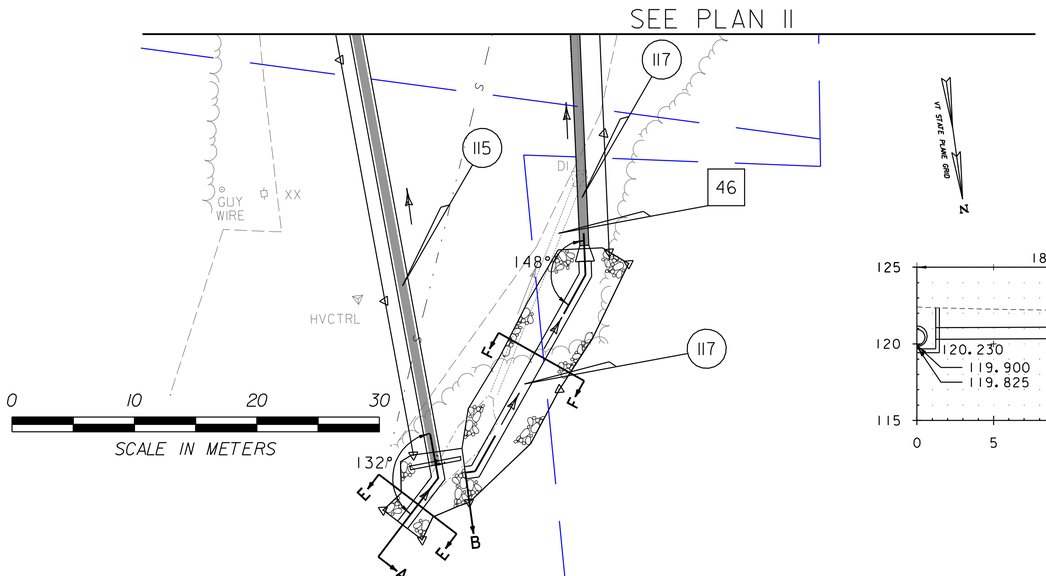
OUTLET CHANNEL DETAIL D-D
NOT TO SCALE

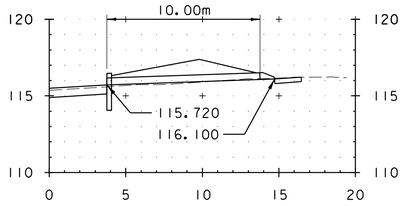


INLET CHANNEL DETAIL E-E
NOT TO SCALE

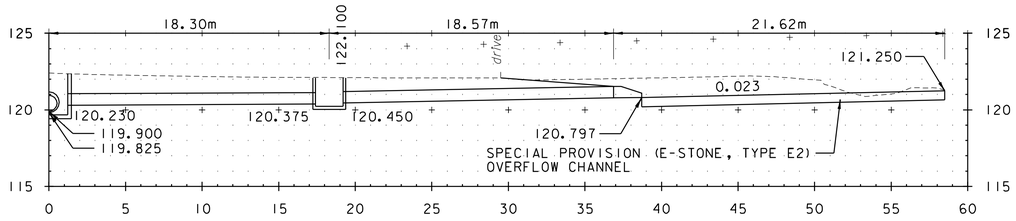


OVERFLOW CHANNEL DETAIL F-F
NOT TO SCALE



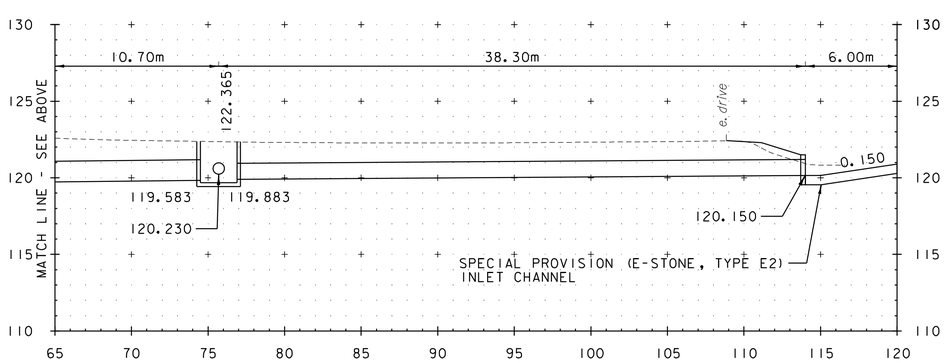


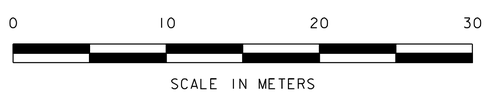
CULVERT DETAIL C-C



DETAIL B-B

DETAIL A-A





DRAINAGE PLAN IIA

PROJECT NAME: BRANDON
PROJECT NUMBER: NH 019-3(496)

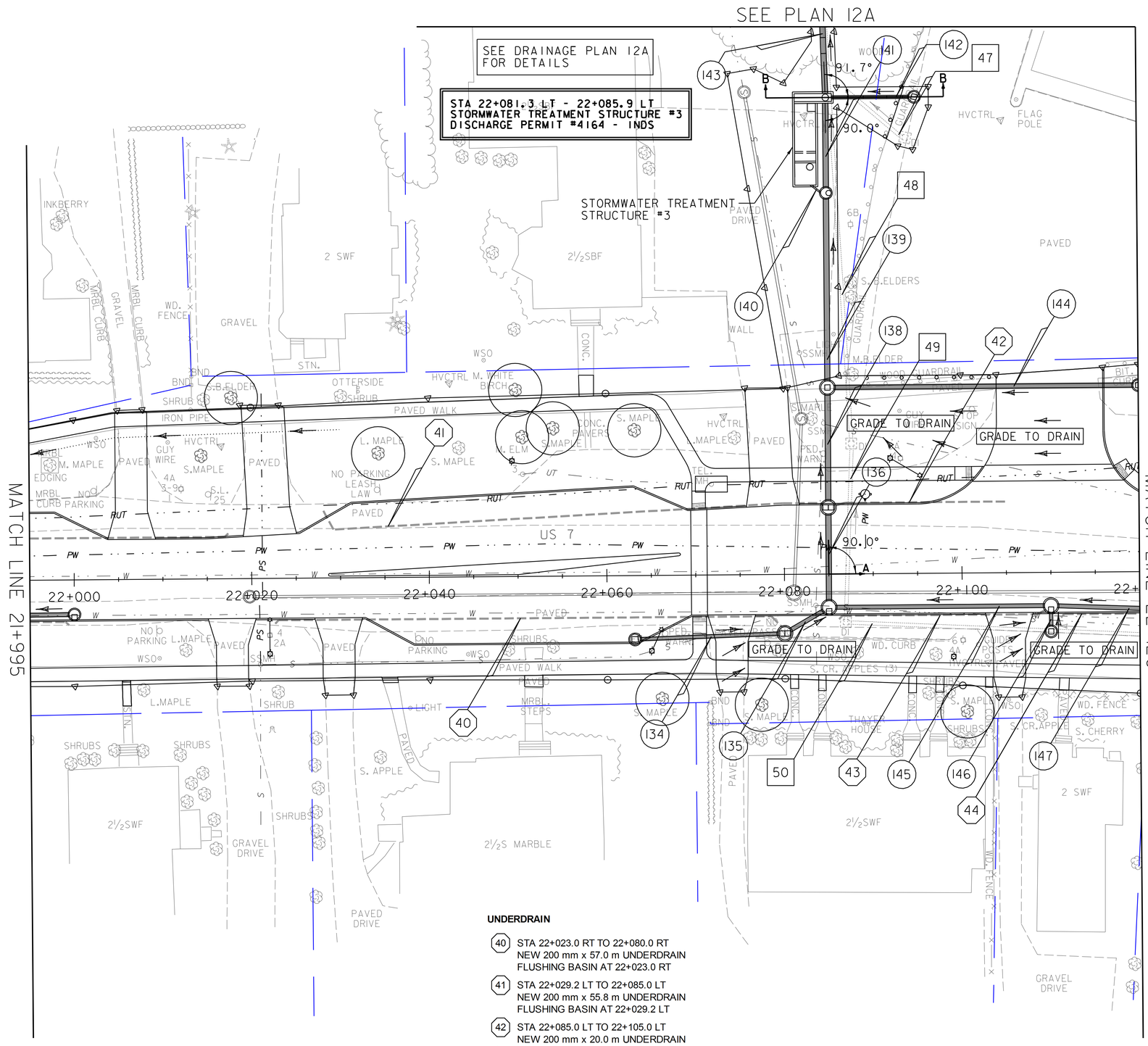
FILE NAME: zb008s6-drn.dgn
PROJECT LEADER: C. BEAN
DESIGNED BY: M. HALEY

PLOT DATE: 2/23/2017
DRAWN BY: M. HALEY
CHECKED BY: D. MUNRO
SHEET 176 OF 601

CLD 02-0448 MODEL: IIA

ISSUED FOR CONSTRUCTION

VAOT Metric



NEW DRAINAGE

(133) INTENTIONALLY LEFT BLANK

(134) STA 22+063 RT TO 22+080 RT
NEW 375 mm x 15.5 m PCCSP (1.63) OR CAAP (1.52) OR
RCP CLASS III OR CPEP(SL)
NEW 1.2 m PRCCB W/ STEEL GRATE AT 22+063 RT

(135) STA 22+080 RT TO 22+085 RT
NEW 450 mm x 4.3 m RCP CLASS III OR CPEP(SL)
NEW 1.5 m PRCCB W/ 2 CI GRATES TYPE A AT 22+080 RT

(136) STA 22+085 LT/RT
NEW 600 mm x 9.8 m RCP CLASS III OR CPEP(SL)
NEW 1.5 m PRCCB W/CI GRATE TYPE D AT 22+085 RT

(137) INTENTIONALLY LEFT BLANK

(138) STA 22+085 LT TO 22+085 LT
NEW 600 mm x12.0 m RCP CLASS III OR CPEP(SL)
NEW 1.5 m PRCCB W/ 2 CI GRATE TYPE D AT 22+085 LT

(139) STA 22+085 LT TO 22+085 LT
NEW 600 mm x 20.5 m RCP CLASS III OR CPEP(SL)
NEW 1.5 m PRCCB W/CI GRATE TYPE D AT 22+085 LT

(140) STA 22+083.3 LT TO 22+085 LT
NEW 1.4 m PVC SEWER PIPE (150 mm)
DIVERSION PIPE (TYPE 1)

(141) STA 22+085 LT TO 22+085 LT
NEW 600 mm x 9.5 m PCCSP (1.63) OR CAAP (1.52)
NEW 1.2 m PRCMH DIVERSION STRUCTURE W/CI COVER AT 22+085 LT
CONNECT TO STORMWATER TREATMENT STRUCTURE AT OUTLET

(142) STA 22+085 LT TO 22+095 LT
NEW 300 mm x 8.9 m PCCSP (1.63) OR CAAP (1.52) SLOPE PIPE W/2 10° ELBOWS
NEW 1.2 m PRCCB W/CI GRATE TYPE A AT 22+095 LT
CONNECT TO STORMWATER TREATMENT STRUCTURE AT OUTLET

(143) STA 22+084.3 LT TO 22+085 LT
NEW 600 mm x 20.9 m PCCSP (1.63) OR CAAP (1.52) SLOPE PIPE W/2 10° ELBOWS
CONNECT TO STORMWATER TREATMENT STRUCTURE AT INLET
STONE FILL, TYPE II CHANNEL AT OUTLET

(144) STA 22+085 LT TO 22+120 LT
NEW 450 mm x 33.7 m RCP CLASS III OR CPEP(SL)
NEW 1.2 m PRCCB W/CI GRATE TYPE D AT 22+120 LT

(145) STA 22+085 RT TO 22+110 RT
NEW 450 mm x 23.5 m RCP CLASS III OR CPEP(SL)
NEW 1.5 m PRCCB W/CI GRATE TYPE D AT 22+110 RT

(146) STA 22+110 RT TO 22+110 RT
NEW 375 mm x 1.6 m PCCSP (1.63) OR CAAP (1.52) OR
RCP CLASS III OR CPEP(SL)
NEW 1.2 m PRCCB W/CI GRATE TYPE A AT 22+110 RT

(147) STA 22+110 RT TO 22+145 RT
NEW 450 mm x 33.0 m PCCSP (1.63) OR CAAP (1.52) OR
RCP CLASS III OR CPEP(SL)
NEW 1.5 m PRCCB W/CI GRATE TYPE D AT 22+145 RT

EXISTING DRAINAGE

[47] STA 22+087.4 LT TO 22+094.0 LT
EXISTING 310 mm CGMP W/DI AT INLET - REMOVE
OUTLET NOT FOUND

[48] STA 22+083.0 LT TO 22+087.6 LT
EXISTING 310 mm CGMP W/DI AT INLET - REMOVE DI
REMOVE PIPE TO LIMIT OF WORK / PLUG AND ABANDON REMAINING PIPE

[49] STA 22+086.9 RT TO 22+087.6 LT
EXISTING 310 mm VCP W/DI AT INLET - REMOVE

[50] STA 22+086.9 RT TO 22+131.3 RT
EXISTING 310 mm VCP W/DI AT INLET - REMOVE

UNDERDRAIN

(40) STA 22+023.0 RT TO 22+080.0 RT
NEW 200 mm x 57.0 m UNDERDRAIN
FLUSHING BASIN AT 22+023.0 RT

(41) STA 22+029.2 LT TO 22+085.0 LT
NEW 200 mm x 55.8 m UNDERDRAIN
FLUSHING BASIN AT 22+029.2 LT

(42) STA 22+085.0 LT TO 22+105.0 LT
NEW 200 mm x 20.0 m UNDERDRAIN

(43) STA 22+086.5 RT TO 22+110.0 RT
NEW 200 mm x 23.5 m UNDERDRAIN
FLUSHING BASIN AT 22+086.5 RT

(44) STA 22+111.5 RT TO 22+145.0 RT
NEW 200 mm x 33.5 m UNDERDRAIN
FLUSHING BASIN AT 22+111.5 RT

0 10 20 30
SCALE IN METERS

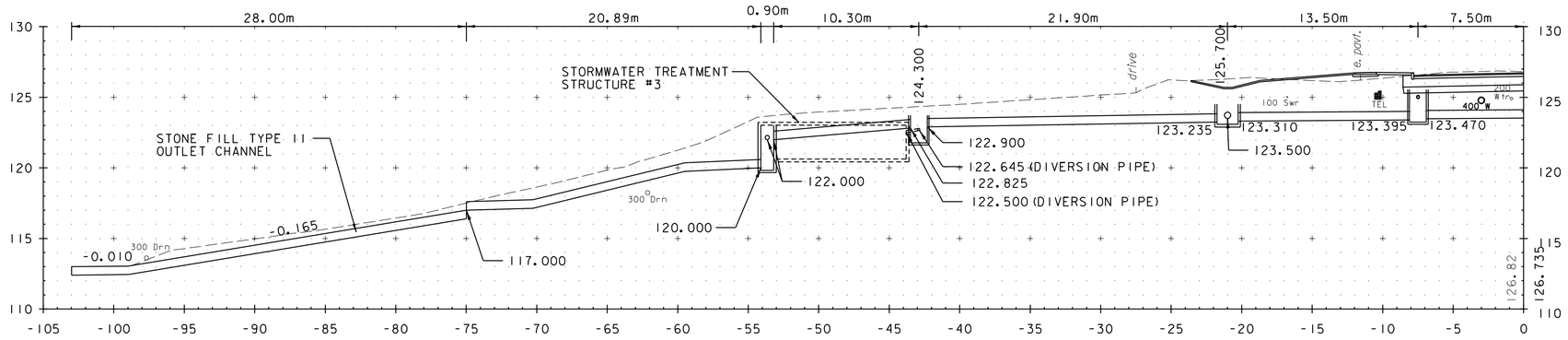
DRAINAGE PLAN I2

PROJECT NAME: BRANDON
PROJECT NUMBER: NH 019-3(496)

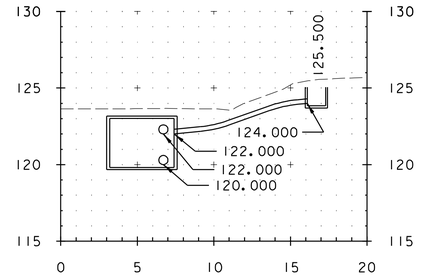
FILE NAME: zb008s6-drn.dgn
PROJECT LEADER: C. BEAN
DESIGNED BY: M. HALEY
PLOT DATE: 2/23/2017
DRAWN BY: M. HALEY
CHECKED BY: D. MUNRO
SHEET 177 OF 601

CLD 02-0448 MODEL: I2

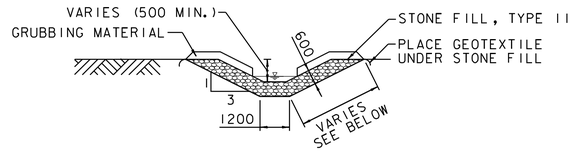
ISSUED FOR CONSTRUCTION



DETAIL A-A

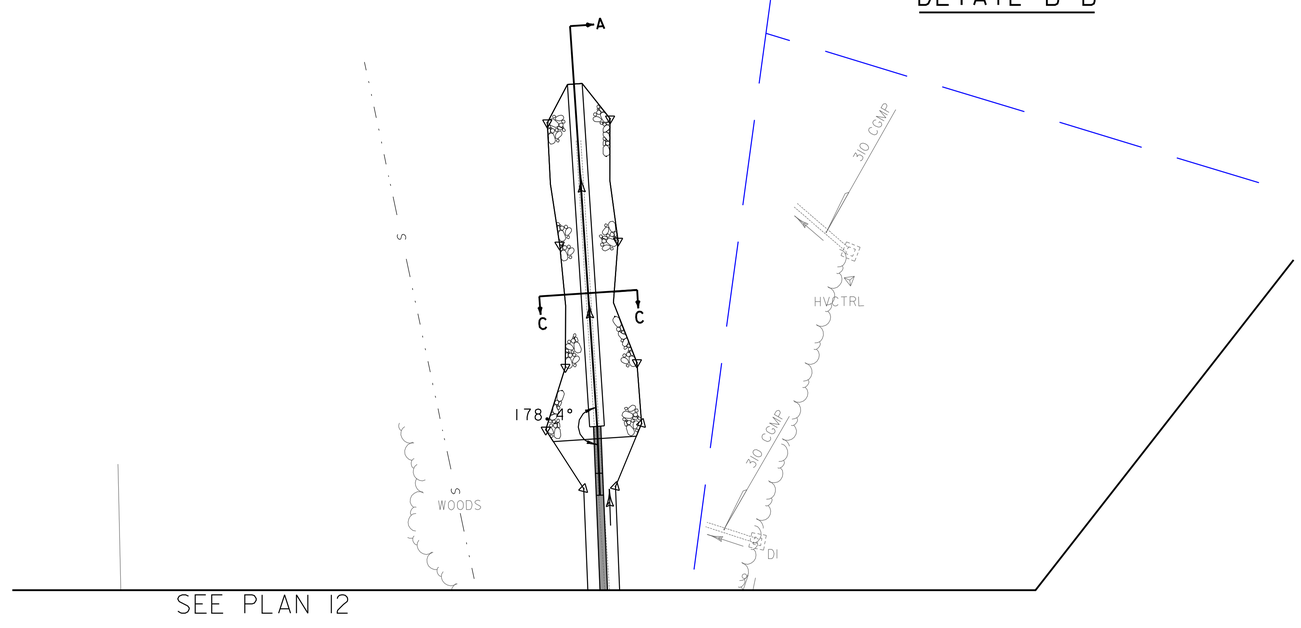


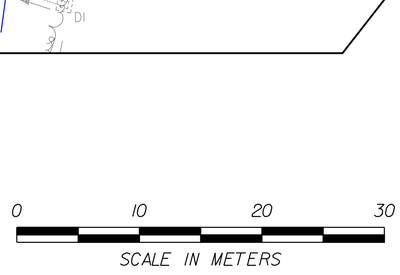
DETAIL B-B



OUTLET CHANNEL DETAIL C-C

NOT TO SCALE





VT STATE PLANE GRID

N

DRAINAGE PLAN 12A

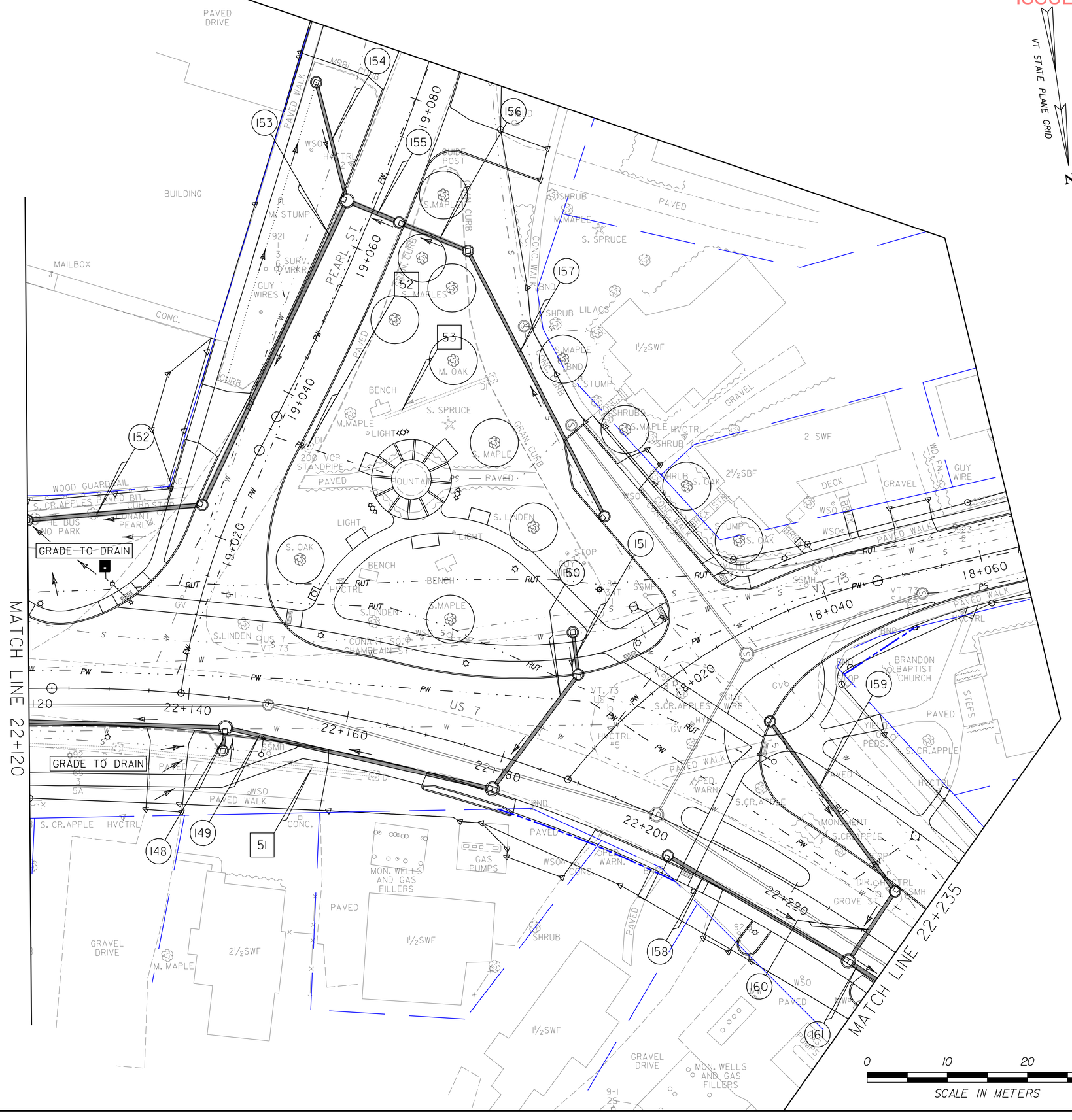
PROJECT NAME:	BRANDON
PROJECT NUMBER:	NH 019-3(496)

FILE NAME: zb008s6-drn.dgn	PLOT DATE: 2/23/2017
PROJECT LEADER: C. BEAN	DRAWN BY: M. HALEY
DESIGNED BY: M. HALEY	CHECKED BY: D. MUNRO
	SHEET 178 OF 601

CLD 02-0448 MODEL: 12A

ISSUED FOR CONSTRUCTION

VAOT Metric



VT STATE PLANE GRID

N

NEW DRAINAGE

148 STA 22+145 RT TO 22+145 RT
NEW 375 mm x 1.6 m PCCSP (1.63) OR CAAP (1.52) OR RCP CLASS III OR CPEP(SL)
NEW 1.2 m PRCCB W/CI GRATE TYPE A AT 22+145 RT

149 STA 22+145 RT TO 22+180 RT
NEW 450 mm x 32.7 m RCP CLASS III OR CPEP(SL)
NEW 1.5 m PRCCB W/ 2 CI GRATES TYPE D AT 22+180 RT

150 STA 22+180 RT TO 22+185.5 LT
NEW 450 mm x 16.5 m RCP CLASS III OR CPEP(SL)
NEW 1.2 m PRCCB W/CI GRATE TYPE D AT 22+185.5 LT

151 STA 22+183.3 LT TO 22+185.5 LT
NEW 375 mm x 4.1 m RCP CLASS III OR CPEP(SL)
NEW 1.2 m PRCCB W/CI GRATE TYPE D AT 22+183.3 LT

152 STA 22+120 LT TO 19+023 LT
NEW 450 mm x 20.7 m RCP CLASS III OR CPEP(SL)
NEW 1.2 m PRCCB W/CI GRATE TYPE D AT 19+023 LT

153 STA 19+023 LT TO 19+065 LT
NEW 450 mm x 40.7 m RCP CLASS III OR CPEP(SL)
NEW 1.5 m PRCCB W/CI GRATE TYPE D AT 19+065 LT

154 STA 19+065 LT TO 19+077.7 LT
NEW 375 mm x 13.9 m RCP CLASS III OR CPEP(SL)
NEW 1.2 m PRCCB W/CI GRATE TYPE A AT 19+077.7 LT

155 STA 19+065 LT/RT
NEW 450 mm x 5.7 m RCP CLASS III OR CPEP(SL)
NEW 1.2 m PRCCB W/CI GRATE TYPE D AT 19+065 RT

156 STA 19+065 RT TO 19+065 RT
NEW 375 mm x 8.1 m RCP CLASS III OR CPEP(SL)
NEW 1.2 m PRCCB W/CI GRATE TYPE A AT 19+065 RT

157 STA 19+065 RT TO 18+021.9 LT
NEW 375 mm x 36.0 m RCP CLASS III OR CPEP(SL)
NEW 1.2 m PRCCB W/CI GRATE TYPE D AT 18+022.1 LT

158 STA 22+204 RT TO 22+230.7 RT
NEW 450 mm x 24.7 m RCP CLASS III OR CPEP(SL)
NEW 1.2 m PRCCB W/CI GRATE TYPE D AT 22+204 RT

159 STA 18+026 RT TO 22+230.7 LT
NEW 375 mm x 25.2 m RCP CLASS III OR CPEP(SL)
NEW 1.2 m PRCCB W/CI GRATE TYPE D AT 18+026 RT

160 STA 22+230.7 LT/RT
NEW 450 mm x 9.1 m RCP CLASS III OR CPEP(SL)
NEW 1.2 m PRCCB W/CI GRATE TYPE D AT 22+230.7 LT

161 STA 22+230.7 RT TO 22+240 RT
NEW 450 mm x 7.7 m RCP CLASS III OR CPEP(SL)
NEW 1.5 m PRCCB W/ EXTENDED SUMP AND
2 CI GRATES TYPE D AT 22+230.7 RT

EXISTING DRAINAGE

51 STA 22+131.3 RT TO 22+164.9 RT
EXISTING 310 mm VCP W/DI AT INLET - REMOVE

52 STA 19+035.2 RT
EXISTING 200 mm VCP STANDPIPE W/DI - REMOVE

53 STA 19+041.0 RT TO 19+052.3 RT
EXISTING 310 mm PVC W/DI AT INLET - OUTLET NOT FOUND
REMOVE DI / PLUG AND ABANDON PIPE

0 10 20 30

SCALE IN METERS

DRAINAGE PLAN 13

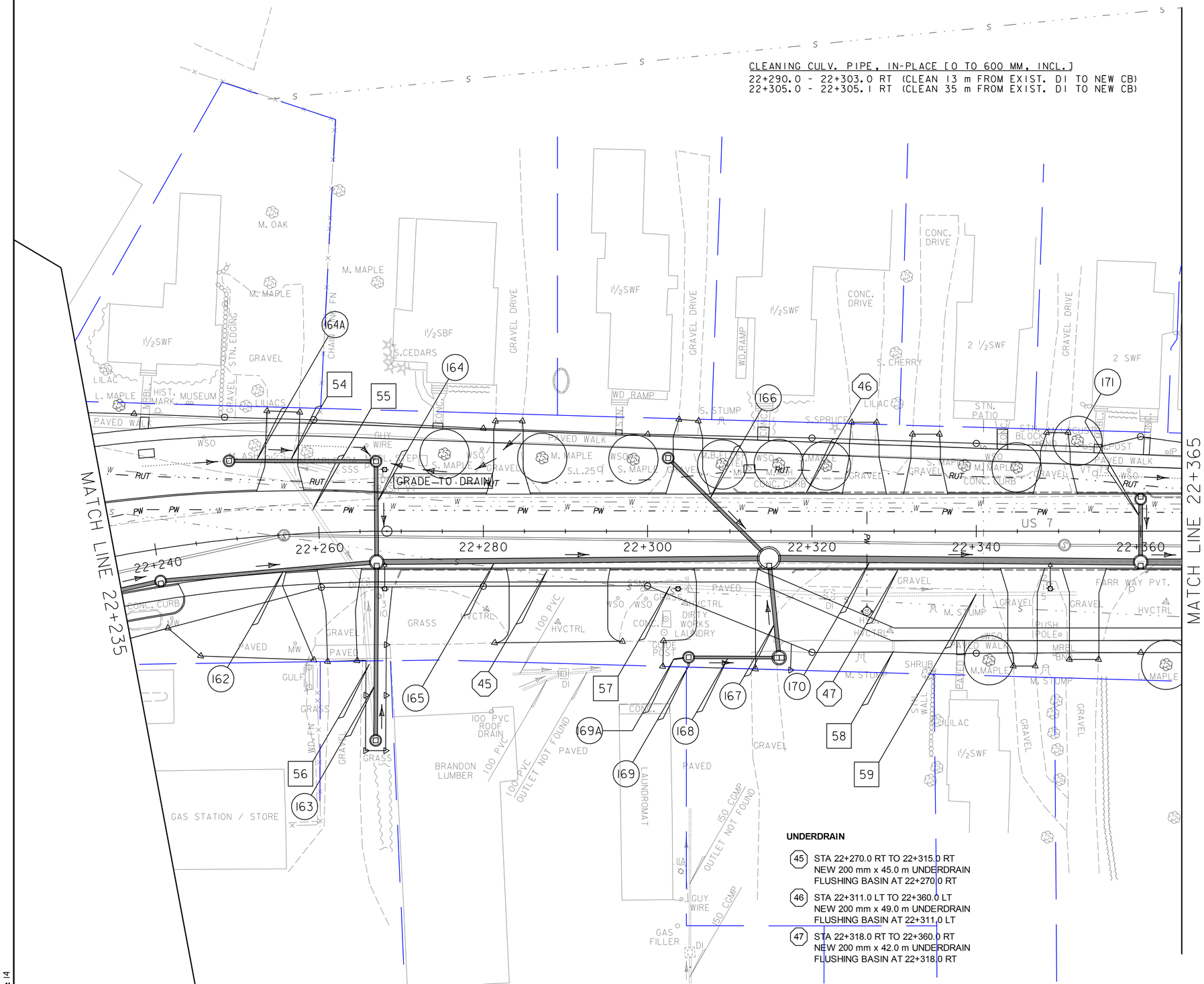
PROJECT NAME: BRANDON
PROJECT NUMBER: NH 019-3(496)

FILE NAME: zb008s6-drn.dgn
PROJECT LEADER: C. BEAN
DESIGNED BY: M. HALEY
PLOT DATE: 2/23/2017
DRAWN BY: M. HALEY
CHECKED BY: D. MUNRO
SHEET 179 OF 601

CLD 02-0448 MODEL:13

ISSUED FOR CONSTRUCTION

VAOT Metric



UNDERDRAIN

45 STA 22+270.0 RT TO 22+315.0 RT
NEW 200 mm x 45.0 m UNDERDRAIN
FLUSHING BASIN AT 22+270.0 RT

46 STA 22+311.0 LT TO 22+360.0 LT
NEW 200 mm x 49.0 m UNDERDRAIN
FLUSHING BASIN AT 22+311.0 LT

47 STA 22+318.0 RT TO 22+360.0 RT
NEW 200 mm x 42.0 m UNDERDRAIN
FLUSHING BASIN AT 22+318.0 RT

VT STATE PLANE GRID N

NEW DRAINAGE

162 STA 22+240 RT TO 22+267 RT
NEW 450 mm x 25.1 m RCP CLASS III OR CPEP(SL)
NEW 1.2 m PRCCB W/ STEEL GRATE AT 22+240 RT

163 STA 22+266.7 RT TO 22+267 RT
NEW 450 mm x 20.3 m RCP CLASS III OR CPEP(SL)
NEW 1.2 m PRCCB W/CI GRATE TYPE A AT 22+266.7 RT

164 STA 22+267 RT/LT
NEW 450 mm x 10.9 m RCP CLASS III OR CPEP(SL)
NEW 1.2 m PRCCB W/CI GRATE TYPE D AT 22+267 LT

164A STA 22+250 LT TO 22+267 LT
NEW 375 mm x 16.7 m RCP CLASS III OR CPEP(SL)
NEW 1.2 m PRCCB W/CI GRATE TYPE A AT 22+250 LT

165 STA 22+267 RT TO 22+314.8 RT
NEW 600 mm x 45.8 m RCP CLASS III OR CPEP(SL)
NEW 1.5 m PRCCB W/CI GRATE TYPE D AT 22+267 RT

166 STA 22+302.5 LT TO 22+314.8 RT
NEW 375 mm x 15.5 m RCP CLASS III OR CPEP(SL)
NEW 1.2 m PRCCB W/CI GRATE TYPE D AT 22+302.5 LT

167 STA 22+314.8 RT TO 22+316 RT
NEW 450 mm x 10.2 m RCP CLASS III OR CPEP(SL)
NEW 1.5 m PRCCB W/2 CI GRATES TYPE A AT 22+316 RT

168 STA 22+305 RT TO 22+316 RT
NEW 375 mm x 9.4 m RCP CLASS III OR CPEP(SL)
NEW 1.2 m PRCCB W/CI GRATE TYPE D AT 22+305 RT

169 STA 22+305 RT TO 22+305 RT
NEW 150 mm X 0.5 m UNDERDRAIN CARRIER PIPE (CSP)
LOCATE AND CONNECT TO EXIST. 150 mm CGMP

169A STA 22+303.2 RT TO 22+305 RT
NEW 1.2 m PVC SEWER PIPE (100 mm)
LOCATE AND CONNECT TO EXIST. 100 mm PVC

170 STA 22+314.8 RT TO 22+360 RT
NEW 750 mm x 43.3 m RCP CLASS III OR CPEP(SL)
NEW 2.4 m PRCCB W/EXTENDED SUMP AND
CI GRATE TYPE D AT 22+314.8 RT

171 STA 22+360 LT/RT
NEW 450 mm x 6.3 m RCP CLASS III OR CPEP(SL)
NEW 1.2 m PRCCB W/CI GRATE TYPE D AT 22+360 LT

EXISTING DRAINAGE

54 STA 22+255.8 LT TO 22+262.8 LT
EXISTING 310 mm RCP - INLET NOT FOUND
PLUG AND ABANDON PIPE AT 22+256 LT

55 STA 22+255.8 LT TO 22+265.4 RT
EXISTING 310 mm RCP W/DI AT INLET - REMOVE

56 STA 22+265.4 RT TO 22+266.7 RT
EXISTING 310 mm CGMP - REMOVE

57 STA 22+265.4 RT TO 22+322.1 RT
EXISTING 310 mm VCP W/DI AT INLET - REMOVE

58 STA 22+329.9 RT TO 22+329.9 RT
EXISTING 100 mm CI - REMOVE

59 STA 22+322.1 RT TO 22+352.2 RT
EXISTING 310 mm VCP W/DI AT INLET - OUTLET NOT FOUND - REMOVE DI
REMOVE PIPE TO LIMIT OF WORK / PLUG AND ABANDON
REMAINING PIPE

0 10 20 30
SCALE IN METERS

DRAINAGE PLAN 14

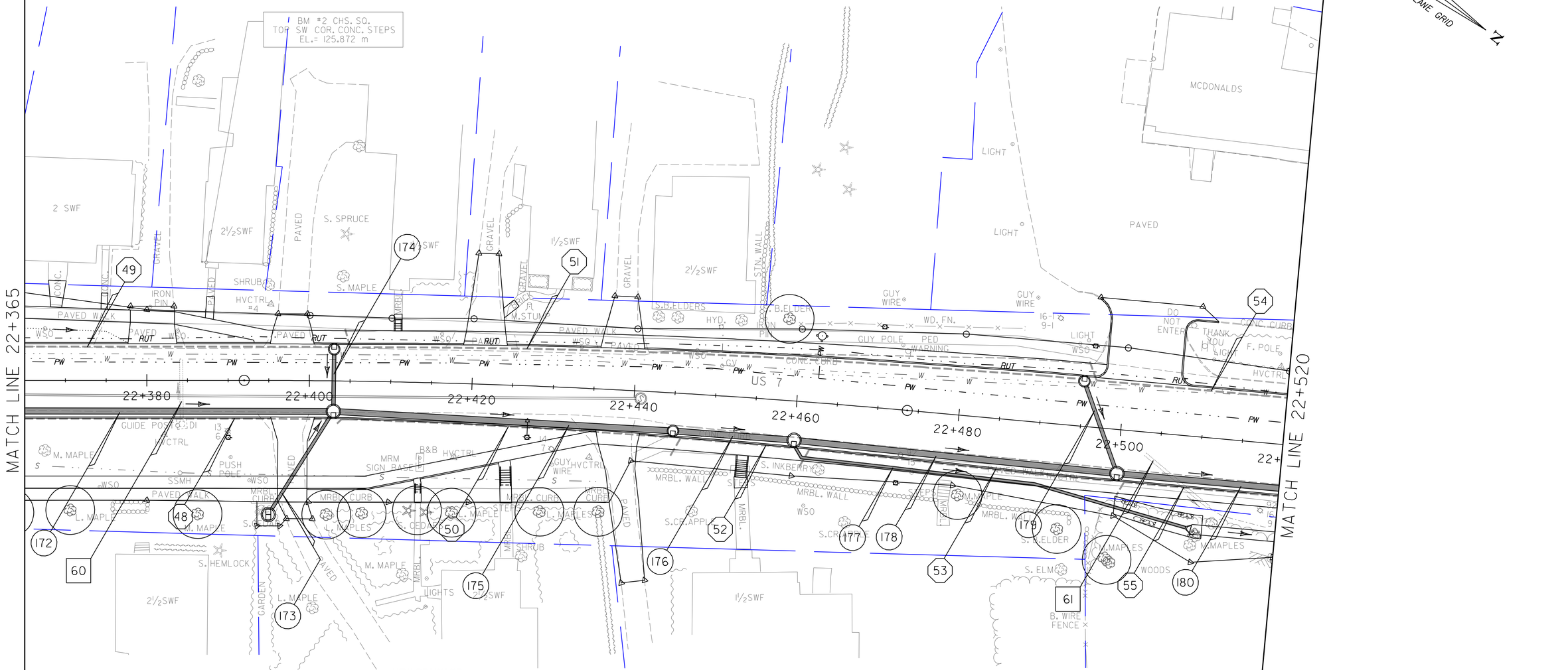
PROJECT NAME: BRANDON
PROJECT NUMBER: NH 019-3(496)

FILE NAME: zb008s6-drn.dgn
PROJECT LEADER: C. BEAN
DESIGNED BY: M. HALEY
PLOT DATE: 2/23/2017
DRAWN BY: M. HALEY
CHECKED BY: D. MUNRO
SHEET 180 OF 601

CLD 02-0448 MODEL: 14

ISSUED FOR CONSTRUCTION

VT STATE PLANE GRID N



UNDERDRAIN

48 STA 22+361.0 RT TO 22+403.0 RT
NEW 200 mm x 42.0 m UNDERDRAIN
FLUSHING BASIN AT 22+361.0 RT

49 STA 22+361.5 LT TO 22+403.0 LT
NEW 200 mm x 42.0 m UNDERDRAIN
FLUSHING BASIN AT 22+361.5 LT

50 STA 22+404.0 RT TO 22+445.0 RT
NEW 200 mm x 40.8 m UNDERDRAIN
FLUSHING BASIN AT 22+404.0 RT

51 STA 22+405.0 LT TO 22+495.0 LT
NEW 200 mm x 90.3 m UNDERDRAIN
FLUSHING BASIN AT 22+405.0 LT

52 STA 22+446.0 RT TO 22+460.0 RT
NEW 200 mm x 13.9 m UNDERDRAIN
FLUSHING BASIN AT 22+446.0 RT

53 STA 22+462.0 RT TO 22+500.0 RT
NEW 200 mm x 37.9 m UNDERDRAIN
FLUSHING BASIN AT 22+462.0 RT

54 STA 22+496.5 LT TO 22+552.0 LT
NEW 200 mm x 55.5 m UNDERDRAIN
FLUSHING BASIN AT 22+496.5 LT

55 STA 22+501.0 RT TO 22+552.0 RT
NEW 200 mm x 51.1 m UNDERDRAIN
FLUSHING BASIN AT 22+501.0 RT

NEW DRAINAGE

172 STA 22+360 RT TO 22+403 RT
NEW 750 mm x 41.4 m RCP CLASS III OR CPEP(SL)
NEW 1.5 m PRCCB W/CI GRATE TYPE D AT 22+360 RT

173 STA 22+395 RT TO 22+403 RT
NEW 375 mm x 13.5 m PCCSP (1.63) OR CAAP (1.52) OR
RCP CLASS III OR CPEP(SL)
NEW 1.5 m PRCCB W/ 2 CI GRATES TYPE A AT 22+395 RT

174 STA 22+403 LT/RT
NEW 450 mm x 6.3 m RCP CLASS III OR CPEP(SL)
NEW 1.2 m PRCCB W/CI GRATE TYPE D AT 22+403 LT

175 STA 22+403 RT TO 22+445 RT
NEW 750 mm x 40.5 m RCP CLASS III OR CPEP(SL)
NEW 1.5 m PRCCB W/CI GRATE TYPE D AT 22+403 RT

176 STA 22+445 RT TO 22+460 RT
NEW 750 mm x 13.6 m PCCSP (2.01) OR CAAP (1.91) OR
RCP CLASS III OR CPEP(SL)
NEW 1.2 m PRCCB W/CI GRATE TYPE E AT 22+445 RT

177 STA 22+460 RT TO 22+510 RT
NEW 300 mm x 49.8 m CPEP(SL) W/ONE 45°, ONE 30°, AND
ONE 11.25° WATERTIGHT ELBOWS AND END SECTION AT OUTLET
INV. OUT=121.204, OFFSET=12.26 m RT
DIVERSION PIPE (TYPE 2) (SEE NOTE 1)
STA 22+500 TO 22+511 STONE FILL, TYPE I CHANNEL

NEW DRAINAGE

178 STA 22+460 RT TO 22+500 RT
NEW 750 mm x 38.4 m PCCSP (2.01) OR CAAP (1.91)
NEW 1.5 m PRCCB DIVERSON STRUCTURE W/CI GRATE TYPE E
AT 22+460 RT

179 STA 22+495 LT TO 22+500 RT
NEW 450 mm x 10.7 m RCP CLASS III OR CPEP(SL)
NEW 1.2 m PRCCB W/CI GRATE TYPE E AT 22+495 LT

180 STA 22+500 RT TO 22+552 RT
NEW 750 mm x 50.5 m RCP CLASS III OR CPEP(SL)
NEW 1.5 m PRCCB W/CI GRATE TYPE E AT 22+500 RT

EXISTING DRAINAGE

60 STA 22+384.2 LT TO 22+384.3 RT
EXISTING 310 mm PVC W/DI AT INLET - OUTLET NOT FOUND - REMOVE DI
REMOVE PIPE TO LIMIT OF WORK / PLUG AND ABANDON REMAINING PIPE

61 STA 22+503.2 RT TO 22+511.6 RT
EXISTING 310 mm VCP - REMOVE
INLET NOT FOUND

NOTES

1. INSTALL METALLIC WARNING TAPE 300 mm ABOVE AND ALONG ENTIRE LENGTH OF DIVERSION PIPE. ALL MATERIALS AND WORK TO INSTALL WARNING TAPE SHALL BE INCIDENTAL TO THE DIVERSION PIPE.

0 10 20 30
SCALE IN METERS

DRAINAGE PLAN 15

PROJECT NAME: BRANDON
PROJECT NUMBER: NH 019-3(496)

FILE NAME: zb008s6-drn.dgn
PROJECT LEADER: C. BEAN
DESIGNED BY: M. HALEY
PLOT DATE: 2/23/2017
DRAWN BY: M. HALEY
CHECKED BY: D. MUNRO
SHEET 181 OF 601

CLD 02-0448 MODEL: I5

ISSUED FOR CONSTRUCTION

VAOT Metric

NEW DRAINAGE

(181) STA 22+552 RT/LT
NEW 750 mm x 9.3 m RCP CLASS III OR CPEP(SL)
NEW 1.5 m PRCCB W/CI GRATE TYPE E AT 22+552 RT

(182) STA 22+511 RT TO 22+609 RT
STORMWATER TREATMENT GRASS CHANNEL
CONSTRUCTION INCIDENTAL TO COMMON EXCAVATION FOR ROADWAY

(183) STA 22+552 LT TO 22+611 LT
NEW 750 mm x 57.5 m RCP CLASS III OR CPEP(SL)
NEW 1.5 m PRCCB W/CI GRATE TYPE E AT 22+552 LT

(184) STA 22+611 LT TO 22+635 LT
NEW 900 mm x 22.4 m RCP CLASS III OR CPEP(SL)
NEW 1.5 m PRCCB W/2 STEEL GRATES AT 22+611 LT

(185) STA 22+611 RT TO 22+611 RT
NEW 450 mm x 4.8 m RCP CLASS III OR CPEP(SL) W/ END SECTION
AND DEBRIS RACK, TYPE B AT INLET
STA 22+609 TO 22+625 STONE FILL, TYPE I CHANNEL

(186) STA 22+611 RT TO 22+620 RT
NEW 600 mm x 7.5 m RCP CLASS III OR CPEP(SL)
NEW 1.5 m PRCCB W/2 STEEL GRATES AT 22+611 RT

(187) STA 22+620 RT TO 22+635 RT
NEW 750 mm x 13.4 m RCP CLASS III OR CPEP(SL)
NEW 1.5 m PRCCB W/2 STEEL GRATES AT 22+620 RT

(188) STA 22+635 LT/RT
NEW 750 mm x 8.2 m RCP CLASS III OR CPEP(SL)
NEW 1.8 m PRCCB W/2 STEEL GRATES AT 22+635 RT

(189) STA 22+635 RT TO 22+660 RT
NEW 450 mm x 23.5 m RCP CLASS III OR CPEP(SL)
NEW 1.2 m PRCCB W/CI GRATE TYPE E AT 22+660 RT

(190) STA 22+635 LT TO 22+641.7 LT
NEW 1050 mm x 8.2 m RCP CLASS III
NEW 1.8 m PRCCB W/CI GRATE TYPE D AT STA 22+635 LT
NEW FULL HEADWALL AT OUTLET
STONE FILL, TYPE II PAD AT OUTLET (1.6 m x 4.2 m)

EXISTING DRAINAGE

[62] STA 22+547.1 LT TO 22+549.5 LT
EXISTING 460 mm CGMP W/DI
REMOVE DI / PLUG AND ABANDON PIPE

[63] STA 22+617.8 RT TO 22+618.0 RT
EXISTING 760 mm RCP W/DI - REMOVE

[64] STA 22+617.8 RT TO 22+643.1 LT
EXISTING 760 mm RCP W/DI - REMOVE

UNDERDRAIN

(56) STA 22+553.0 LT TO 22+611.0 LT
NEW 200 mm x 57.9 m UNDERDRAIN
FLUSHING BASIN AT 22+553.0 LT

(57) STA 22+553.5 RT TO 22+611.0 RT
NEW 200 mm x 57.5 m UNDERDRAIN
FLUSHING BASIN AT 22+553.5 RT

VT STATE PLANE GRID N

MATCH LINE 22+520

22+630.000
END PROJECT
NH 019-3(496)
BEGIN APPROACH

22+680.000
END APPROACH

22+520 22+540 22+560 22+580 22+600 22+620 22+640 22+660 22+680 22+700

62 183 56 184 64 190

GAS PUMPS
CONC.
PAVED
CONC. CURB
MON. WELLS AND GAS FILLERS
BND
SHELL MCDONALDS
VENT
LIGHT
CONC. CURB
S.L. 35
HVCTRL
DRIVE
LIGHT
PAVED
GRAVEL
CONC
BRANDON AUTO SALES
WSO
W WIRE FENCE
PIN
HVCTRL
GV
BND
STIC
HVCTRL
PAVED
US 7
WETLAND #23
CLASS 2
PEMB

CONC. CURB
GUY WIRE
SL TO THROUGH WAY BEGINS HERE
HVCTRL #3
DITCH
PAVED WALK
CHAIN LINK FENCE
ABANDONED QUARRY
GUY WIRE
S. LOCUST
BND
GRAVEL
PAVED
WD. FENCE
SHRUB
S. LOCUST
2½SWF

M.MAPLES
S.MAPLE
M.MAPLE
S.MAPLE
GUY WIRE
LEDGE
WOODS
M. MAPLE
S.MAPLES
S.BASSWD
LEDGE
M. MAPLE
760 RCP
LEDGE

181 182 57 186 185 63 187 188 189

BM #1 CHS. SQ.
IN LEDGE
EL.= 120.49 m

STA 22+511.0 RT - 22+609.0 RT
STORMWATER TREATMENT GRASS CHANNEL
DISCHARGE PERMIT #4164 - INDS

0 10 20 30
SCALE IN METERS

DRAINAGE PLAN 16

PROJECT NAME: BRANDON
PROJECT NUMBER: NH 019-3(496)

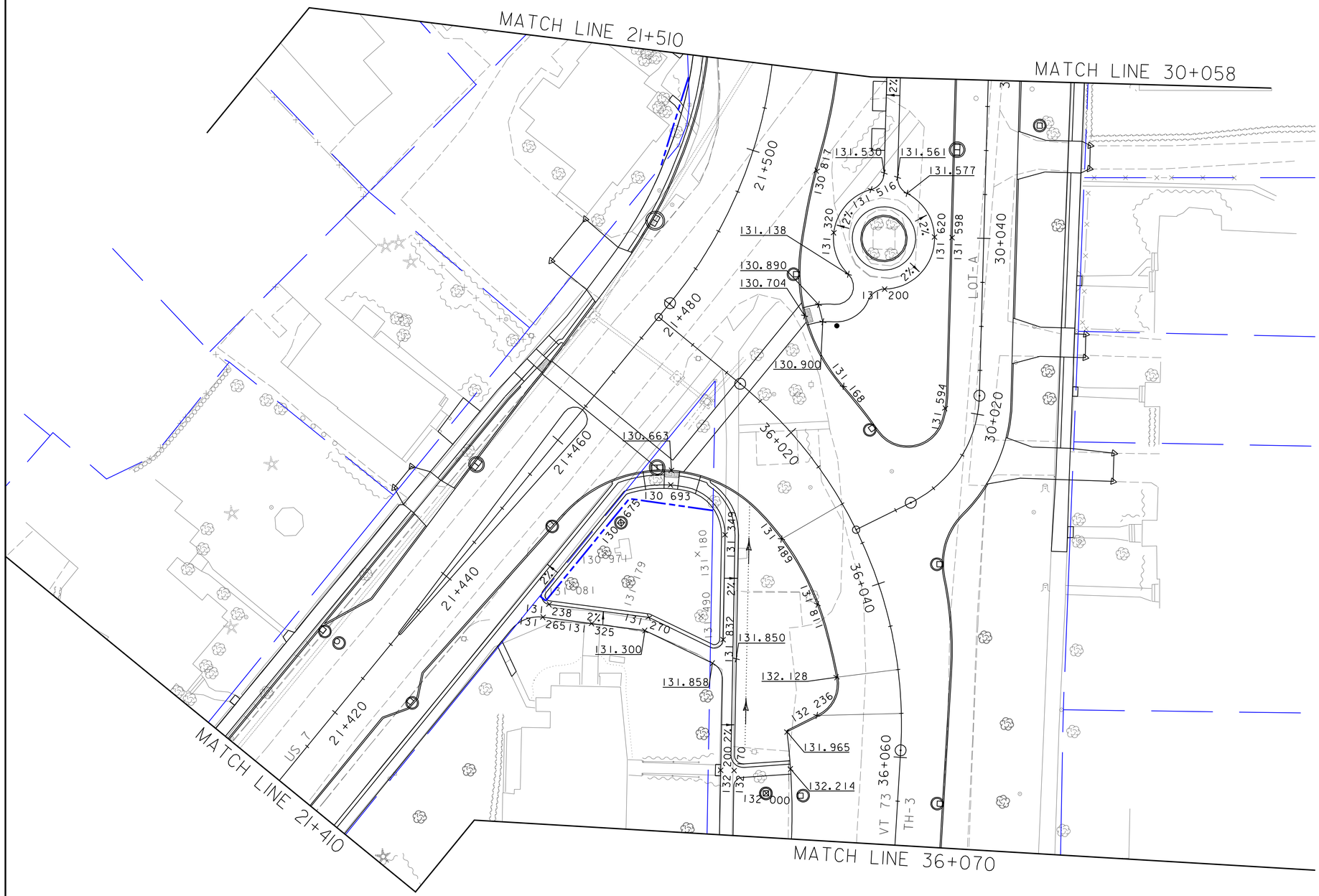
FILE NAME: zb008s6-drn.dgn
PROJECT LEADER: C. BEAN
DESIGNED BY: M. HALEY
PLOT DATE: 2/23/2017
DRAWN BY: M. HALEY
CHECKED BY: D. MUNRO
SHEET 182 OF 601

CLD 02-0448 MODEL: 16

ISSUED FOR CONSTRUCTION

VAOT Metric

VT STATE PLANE GRID



PROPOSED SIDEWALK TO GENERALLY MATCH EXISTING LOCATION/ELEVATION AT BACK OF SIDEWALK UNLESS SHOWN OTHERWISE ON PLANS/SECTIONS OR AS DIRECTED BY THE ENGINEER.

36+025.1 TO 36+070.0 RT
36+042.0 LT TO 30+058.0 RT

NO GRADING PLANS 1-6

ALL ELEVATIONS AT CURB ARE TOP OF CURB

0 10 20 30

SCALE IN METERS

GRADING PLAN 7

PROJECT NAME: BRANDON
PROJECT NUMBER: NH 019-3(496)

FILE NAME: zb008s6-grd.dgn
PROJECT LEADER: C. BEAN
DESIGNED BY: P. SHEDD

PLOT DATE: 2/23/2017
DRAWN BY: M. HALEY
CHECKED BY: D. MUNRO
SHEET 183 OF 601

CLD 02-0448 MODEL: 7

ISSUED FOR CONSTRUCTION

VAOT Metric

VT STATE PLANE GRID N

MATCH LINE 21+615

MATCH LINE 30+149

35 + 066.000
LIMIT OF WORK

CONSTRUCT SIDEWALK WITH 2% CROSS SLOPE FROM FACE OF BUILDING. HOLD EXISTING GROUND ELEVATION AT FACE OF BUILDING. SLOPE OF ADJACENT PARKING BAYS VARY. (SEE CROSS SECTIONS).

30+120.8 - 30+149.0 RT

PROPOSED SIDEWALK TO GENERALLY MATCH EXISTING LOCATION/ELEVATION AT BACK OF SIDEWALK UNLESS SHOWN OTHERWISE ON PLANS/SECTIONS OR AS DIRECTED BY THE ENGINEER.

30+058.0 TO 30+065.0 RT
34+013.0 TO 34+063.0 LT

ADJUST REVEAL TO 250 mm AT BACK OF RAMP

*ADJUST CURB REVEAL TO GRADE PAVEMENT TOWARD SHOULDER. PROVIDE 100 MIN CURB REVEAL AND 0.5 % MIN SLOPE TOWARD SHOULDER.

FLUSH (NO REVEAL)

ALL ELEVATIONS AT CURB ARE TOP OF CURB

MATCH LINE 21+510

MATCH LINE 30+058

0 10 20 30
SCALE IN METERS

GRADING PLAN 8

PROJECT NAME: BRANDON
PROJECT NUMBER: NH 019-3(496)

FILE NAME: zb008s6-grd.dgn
PROJECT LEADER: C. BEAN
DESIGNED BY: P. SHEDD
PLOT DATE: 2/23/2017
DRAWN BY: M. HALEY
CHECKED BY: D. MUNRO
SHEET 184 OF 601

CLD 02-0448 MODEL: 8

ISSUED FOR CONSTRUCTION

VAOT Metric

VT STATE PLANE GRID N

MAINTAIN 2% MAX. CROSS SLOPE FOR 1.53 m MIN. WIDTH THEN VARY CROSS SLOPE OF REMAINING SIDEWALK TO MATCH EXIST. GROUND AT BACK OF SIDEWALK

FLAT AREA FOR FOR FUTURE PAD

2% SLOPE FROM EDGE OF PAD 0.5 m TO 1:4 SLOPE (TYP.)

1.8 m to 1:4 SLOPE

PAD

130.730
130.825
130.850
130.965
130.755
130.850
130.885
131.000
129.365
129.400
129.515
129.545
129.064
129.140
129.860
129.632
131.888
131.811
131.850
131.700
131.848
131.873
131.823
131.740
131.800
131.560
131.337
131.222
131.239
131.570
131.479
131.206
131.847
131.662
131.298
130.834
131.695
131.630

21+700
21+680
21+660
21+640
21+620
US 7
21+720

30+160

2%
12%

MATCH LINE 21+735

MATCH LINE 21+615

MATCH LINE 30+149

POT 21+710.844 BK = EQ = +0.240 AHD

CONSTRUCT SIDEWALK WITH 2% CROSS SLOPE FROM FACE OF BUILDING. HOLD EXISTING GROUND ELEVATION AT FACE OF BUILDING. SLOPE OF ADJACENT PARKING BAYS VARY. (SEE CROSS SECTIONS).

21+702.1 - 21+735.0 RT
21+713.0 - 21+735.0 LT*
30+149.0 - 30+152.8 RT
30+154.4 - 21+695.3 RT

*BACK OF SIDEWALK TO BE FLUSH WITH MARBLE SILL AT FACE OF BUILDING.

ALL ELEVATIONS AT CURB ARE TOP OF CURB

0 10 20 30
SCALE IN METERS

GRADING PLAN 9

PROJECT NAME: BRANDON
PROJECT NUMBER: NH 019-3(496)

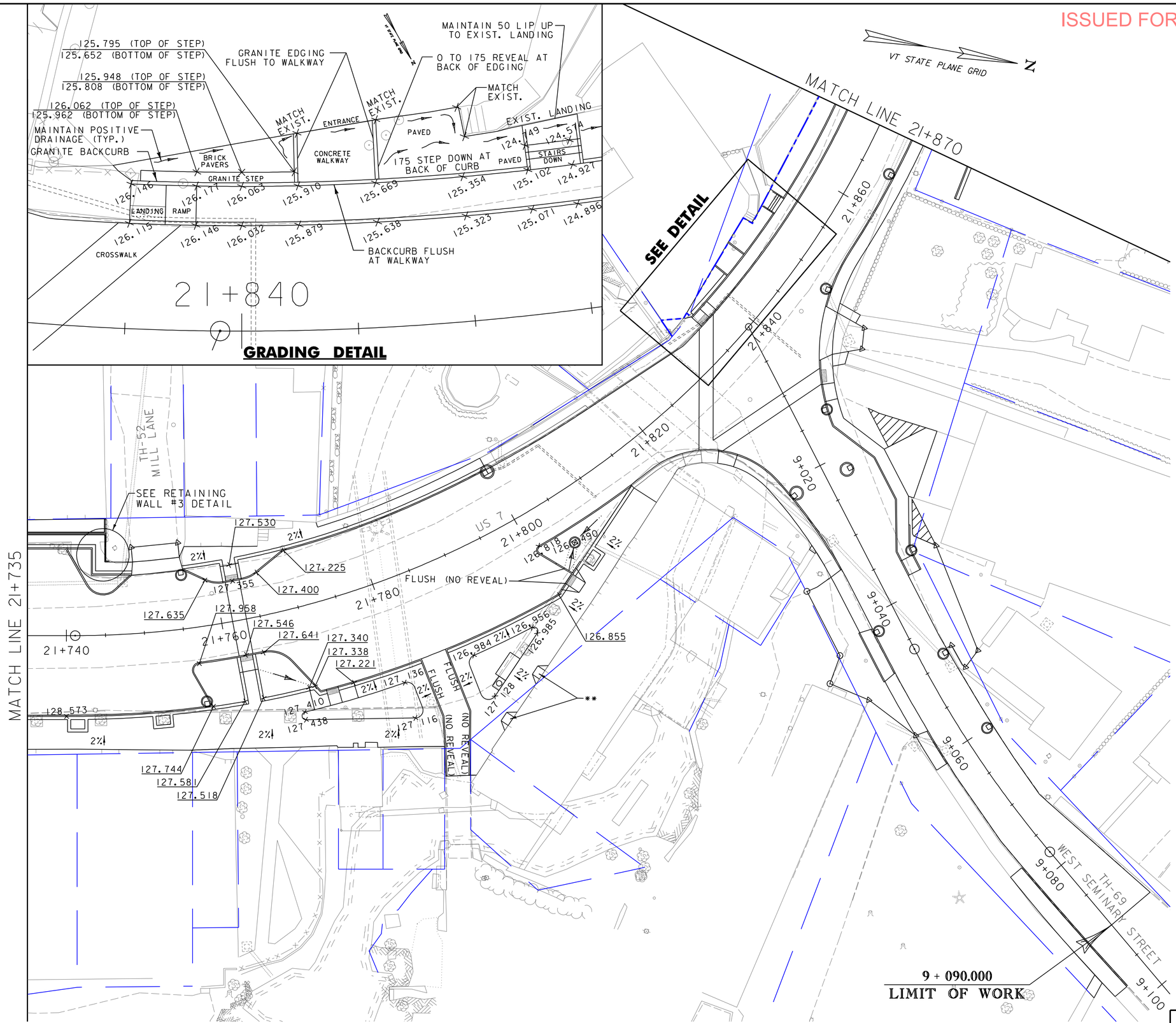
FILE NAME: zb008s6-grd.dgn
PROJECT LEADER: C. BEAN
DESIGNED BY: P. SHEDD
PLOT DATE: 2/23/2017
DRAWN BY: M. HALEY
CHECKED BY: D. MUNRO
SHEET 185 OF 601

CLD 02-0448 MODEL: 9

ISSUED FOR CONSTRUCTION

VAOT Metric

GRADING DETAIL



CONSTRUCT SIDEWALK WITH 2% CROSS SLOPE FROM FACE OF BUILDING. HOLD EXISTING GROUND ELEVATION AT FACE OF BUILDING. SLOPE OF ADJACENT PARKING BAYS VARY. (SEE CROSS SECTIONS).

21+735.0 - 21+754.1 RT
21+735.0 - 21+745.6 LT*
21+756.5 - 21+769.4 LT
21+770.4 - 21+781.4 RT
21+782.8 - 21+819.2 RT

* BACK OF SIDEWALK TO BE FLUSH WITH MARBLE SILL AT FACE OF BUILDING.

** INSTALL ACCESSIBLE RAMP FROM SIDEWALK ELEVATION UP TO ENTRYWAY ELEVATION. CONSTRUCTION OF RAMP SHALL BE INCIDENTAL TO SIDEWALK PAY ITEM.

ALL ELEVATIONS AT CURB ARE TOP OF CURB

0 10 20 30
SCALE IN METERS

GRADING PLAN 10

PROJECT NAME: BRANDON
PROJECT NUMBER: NH 019-3(496)

FILE NAME: zb008s6-grd.dgn
PROJECT LEADER: C. BEAN
DESIGNED BY: P. SHEDD
PLOT DATE: 2/23/2017
DRAWN BY: M. HALEY
CHECKED BY: D. MUNRO
SHEET 186 OF 601

CLD 02-0448 MODEL: 10

ISSUED FOR CONSTRUCTION

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VT STATE PLANE GRID

N

TRANSITION SIDEWALK TO MATCH EXISTING GROUND AT FACE OF BUILDING OVER 3.0 m.

BACK OF SIDEWALK TO MATCH EXISTING WALKWAY ELEVATION

PEARL ST

US 7

VT 73

MATCH LINE 22+120

MATCH LINE 22+235

CONSTRUCT SIDEWALK WITH 2% CROSS SLOPE FROM FACE OF BUILDING. HOLD EXISTING GROUND ELEVATION AT FACE OF BUILDING.

19+047.1 - 19+072.6 LT

SEE SIDEWALK PROFILE 'F-LT'

NO GRADING PLANS 11,12,14,15 AND 16.

ALL ELEVATIONS AT CURB ARE TOP OF CURB

0 10 20 30

SCALE IN METERS

GRADING PLAN 13

PROJECT NAME: BRANDON

PROJECT NUMBER: NH 019-3(496)

FILE NAME: zb008s6-grd.dgn
PROJECT LEADER: C. BEAN
DESIGNED BY: P. SHEDD

PLOT DATE: 2/23/2017
DRAWN BY: M. HALEY
CHECKED BY: D. MUNRO
SHEET 187 OF 601

CLD 02-0448 MODEL: 13

ISSUED FOR CONSTRUCTION

VAOT Metric

1. **PROJECT DESCRIPTION**
THE BRANDON US ROUTE 7 SEGMENT 6 PROJECT CONSISTS OF THE RECONSTRUCTION OF 1.852 KM OF US ROUTE 7 IN THE TOWN OF BRANDON, VERMONT. THE PROJECT BEGINS APPROXIMATELY 5.373 KM NORTHERLY OF THE PITTSFORD/BRANDON TOWN LINE AND EXTENDS THROUGH BRANDON VILLAGE 1.852 KM TO A POINT NORTH OF THE VERMONT ROUTE 73 (WEST) INTERSECTION WITH US ROUTE 7. WORK TO BE PERFORMED INCLUDES THE REMOVAL AND DISPOSAL OF THE CONCRETE ROAD, WIDENING AND FULL DEPTH RECONSTRUCTION OF US ROUTE 7, RECONSTRUCTION OF SIDEROADS, SIDEWALKS, CONSTRUCTION OF PARKING AREAS, GRADING, DRAINAGE, WATER, SEWER, RELOCATION OF AERIAL AND UNDERGROUND UTILITIES, PAVING, TRAFFIC SIGNALS, SIGNS, PAVEMENT MARKINGS AND OTHER HIGHWAY RELATED ITEMS.

2. **AREA OF DISTURBANCE**
THE TOTAL DISTURBANCE ASSOCIATED WITH CONSTRUCTION OF THIS PROJECT IS APPROXIMATELY 18.0 ACRES.

AREA OF DISTURBANCE SHALL INCLUDE LIMITS OF EARTH DISTURBANCE WITHIN THE PROJECT AREA, INCLUDING ANY WASTE, STAGING AND BORROW AREAS WITHIN OR DIRECTLY ADJACENT TO THE PROJECT LIMITS. SEE BREAKDOWN OF DISTURBANCE PER DRAINAGE AREA IN #5 BELOW.

3. **CONSTRUCTION SEQUENCE**
THE CONTRACTOR SHALL SEQUENCE CONSTRUCTION ACTIVITIES TO MINIMIZE THE EXTENT OF DISTURBED SOILS LEFT OPEN TO A MAXIMUM OF 5 TOTAL DISTURBED ACRES WITHIN THE PROJECT LIMITS AT ANY GIVEN TIME. THE CONTRACTOR SHALL COMPLETE EACH PROPOSED SEQUENCE OF CONSTRUCTION BEFORE COMMENCING THE FOLLOWING SEQUENCE. A PROPOSED GENERAL SEQUENCE FOR EACH OF THE MAJOR CONSTRUCTION ACTIVITIES IS AS FOLLOWS:

- **SEQUENCE 1 - VT 73 TO NORTHERN LIMIT OF LOT A (STA 21+460 - STA 21+630)**
  1) ESTABLISH PERIMETER CONTROLS AND MARK BOUNDARIES FOR SENSITIVE RESOURCE AREAS, SUCH AS WETLANDS AND RIPARIAN BUFFER ZONES.
  2) INSTALL SEDIMENT CONTROL MEASURES.
  3) CLEAR AND GRUB.
  4) REMOVAL OF EXISTING PORTLAND CEMENT CONCRETE ROADBED.
  5) INSTALLATION OF PROPOSED SEWER MAINS, WATER MAINS AND STORM DRAINAGE.
  6) INSTALLATION OF DUCTBANK, VAULTS AND OTHE APPURTENANCES REQUIRED FOR NEW UNDERGROUND UTILITIES.
  7) CONSTRUCT TEMPORARY ROADWAY FOR PHASE I TRAFFIC.
  8) PERFORM PHASE 1 CONSTRUCTION, LIMIT AREA OF DISTURBANCE TO < 1 ACRE.
  9) CONCURRENTLY INSTALL TEMPORARY AND PERMANENT STABILIZATION AND EPSC MEASURES AS WORK PROGRESSES SO THAT EMBANKMENT IS STABILIZED PRIOR TO ALLOWING RUNOFF TO DISCHARGE TO IT.
  10) PAVE PHASE 1 CONSTRUCTION AREA (BASE COURSE).
  11) SHIFT TRAFFIC ONTO CONSTRUCTED PHASE 1 ROADWAY AND BEGIN PHASE 2 CONSTRUCTION AND CONSTRUCT FINAL ROADWAY.
  12) REPEAT STEPS 4 THROUGH 10 CONCURRENT WITH PHASE 2 CONSTRUCTION.
  13) PLACE PAVEMENT WEARING COURSE AND PAVEMENT MARKINGS.

- **SEQUENCE 2 - BRIDGE 114 AND BEGIN PROJECT TO VT 73 (STA 21+805 - STA 21+840, STA 20+752 - 21+630)**
  1) ESTABLISH PERIMETER CONTROLS AND MARK BOUNDARIES FOR SENSITIVE RESOURCE AREAS, SUCH AS WETLANDS AND RIPARIAN BUFFER ZONES.
  2) INSTALL SEDIMENT CONTROL MEASURES.
  3) CLEAR AND GRUB.
  4) REMOVAL OF EXISTING PORTLAND CEMENT CONCRETE ROADBED.
  5) INSTALLATION OF PROPOSED SEWER MAINS, WATER MAINS AND STORM DRAINAGE.
  6) REPLACEMENT OF BRIDGE 114 WILL BE DONE CONCURRENT WITH PHASE 1 AND 2 CONSTRUCTION.
  7) CONSTRUCT TEMPORARY ROADWAY FOR PHASE 1 TRAFFIC AND TEMPORARY WIDENING FOR PHASE 2 CONSTRUCTION.
  8) PERFORM PHASE 1 CONSTRUCTION, LIMIT AREA OF DISTURBANCE TO < 1 ACRE.
  9) CONCURRENTLY INSTALL TEMPORARY AND PERMANENT STABILIZATION AND EPSC MEASURES AS WORK PROGRESSES SO THAT EMBANKMENT IS STABILIZED PRIOR TO ALLOWING RUNOFF TO DISCHARGE TO IT.
  10) PAVE PHASE 1 CONSTRUCTION AREA (BASE COURSE).
  11) SHIFT TRAFFIC ONTO CONSTRUCTED PHASE 1 ROADWAY AND BEGIN PHASE 2 CONSTRUCTION, REMOVE TEMPORARY RAODWAY AND CONSTRUCT FINAL ROADWAY.
  12) REPEAT STEPS 4 THROUGH 10 CONCURRENT WITH PHASE 2 CONSTRUCTION.
  13) PLACE PAVEMENT WEARING COURSE AND PAVEMENT MARKINGS.

- **SEQUENCE 3 - NORTHERN LIMIT OF LOT A TO BRIDGE 114 (STA 21+630 - STA 21+805)**
  1) ESTABLISH PERIMETER CONTROLS AND MARK BOUNDARIES FOR SENSITIVE RESOURCE AREAS, SUCH AS WETLANDS AND RIPARIAN BUFFER ZONES.
  2) INSTALL SEDIMENT CONTROL MEASURES.
  3) CLEAR AND GRUB.
  4) REMOVAL OF EXISTING PORTLAND CEMENT CONCRETE ROADBED.
  5) INSTALLATION OF PROPOSED SEWER MAINS, WATER MAINS AND STORM DRAINAGE.
  6) INSTALLATION OF DUCTBANK, VAULTS AND OTHE APPURTENANCES REQUIRED FOR NEW UNDERGROUND UTILITIES.
  7) CONSTRUCT TEMPORARY ROADWAY FOR PHASE I TRAFFIC.
  8) PERFORM PHASE 1 CONSTRUCTION, LIMIT AREA OF DISTURBANCE TO < 1 ACRE.
  9) CONCURRENTLY INSTALL TEMPORARY AND PERMANENT STABILIZATION AND EPSC MEASURES AS WORK PROGRESSES SO THAT EMBANKMENT IS STABILIZED PRIOR TO ALLOWING RUNOFF TO DISCHARGE TO IT.
  10) PAVE PHASE 1 CONSTRUCTION AREA (BASE COURSE).
  11) SHIFT TRAFFIC ONTO CONSTRUCTED PHASE 1 ROADWAY AND BEGIN PHASE 2 CONSTRUCTION AND CONSTRUCT FINAL ROADWAY.
  12) REPEAT STEPS 4 THROUGH 10 CONCURRENT WITH PHASE 2 CONSTRUCTION.
  13) PLACE PAVEMENT WEARING COURSE AND PAVEMENT MARKINGS.

- **SEQUENCE 4 - BRIDGE 114 TO NORTH OF PROSPECT ST (STA 21+840 - STA 22+050)**
  1) ESTABLISH PERIMETER CONTROLS AND MARK BOUNDARIES FOR SENSITIVE RESOURCE AREAS, SUCH AS WETLANDS AND RIPARIAN BUFFER ZONES.
  2) INSTALL SEDIMENT CONTROL MEASURES.
  3) CLEAR AND GRUB.
  4) REMOVAL OF EXISTING PORTLAND CEMENT CONCRETE ROADBED.
  5) INSTALLATION OF PROPOSED SEWER MAINS, WATER MAINS AND STORM DRAINAGE.
  6) INSTALLATION OF DUCTBANK, VAULTS AND OTHE APPURTENANCES REQUIRED FOR NEW UNDERGROUND UTILITIES.
  7) CONSTRUCT TEMPORARY ROADWAY FOR PHASE I TRAFFIC.
  8) PERFORM PHASE 1 CONSTRUCTION, LIMIT AREA OF DISTURBANCE TO < 1 ACRE.
  9) CONCURRENTLY INSTALL TEMPORARY AND PERMANENT STABILIZATION AND EPSC MEASURES AS WORK PROGRESSES SO THAT EMBANKMENT IS STABILIZED PRIOR TO ALLOWING RUNOFF TO DISCHARGE TO IT.
  10) PAVE PHASE 1 CONSTRUCTION AREA (BASE COURSE).
  11) SHIFT TRAFFIC ONTO CONSTRUCTED PHASE 1 ROADWAY AND BEGIN PHASE 2 CONSTRUCTION AND CONSTRUCT FINAL ROADWAY.
  12) REPEAT STEPS 4 THROUGH 10 CONCURRENT WITH PHASE 2 CONSTRUCTION.
  13) PLACE PAVEMENT WEARING COURSE AND PAVEMENT MARKINGS.

- **SEQUENCE 5 - NORTH OF PROSPECT TO VT 73 (STA 22+050 - STA 22+220)**
  1) ESTABLISH PERIMETER CONTROLS AND MARK BOUNDARIES FOR SENSITIVE RESOURCE AREAS, SUCH AS WETLANDS AND RIPARIAN BUFFER ZONES.
  2) INSTALL SEDIMENT CONTROL MEASURES.
  3) CLEAR AND GRUB.
  4) REMOVAL OF EXISTING PORTLAND CEMENT CONCRETE ROADBED.
  5) INSTALLATION OF PROPOSED SEWER MAINS, WATER MAINS AND STORM DRAINAGE.
  6) INSTALLATION OF DUCTBANK, VAULTS AND OTHE APPURTENANCES REQUIRED FOR NEW UNDERGROUND UTILITIES.
  7) CONSTRUCT TEMPORARY ROADWAY FOR PHASE I TRAFFIC.
  8) PERFORM PHASE 1 CONSTRUCTION, LIMIT AREA OF DISTURBANCE TO < 1 ACRE.
  9) CONCURRENTLY INSTALL TEMPORARY AND PERMANENT STABILIZATION AND EPSC MEASURES AS WORK PROGRESSES SO THAT EMBANKMENT IS STABILIZED PRIOR TO ALLOWING RUNOFF TO DISCHARGE TO IT.
  10) PAVE PHASE 1 CONSTRUCTION AREA (BASE COURSE).
  11) SHIFT TRAFFIC ONTO CONSTRUCTED PHASE 1 ROADWAY AND BEGIN PHASE 2 CONSTRUCTION AND CONSTRUCT FINAL ROADWAY.
  12) REPEAT STEPS 4 THROUGH 10 CONCURRENT WITH PHASE 2 CONSTRUCTION.
  13) PLACE PAVEMENT WEARING COURSE AND PAVEMENT MARKINGS.

- **SEQUENCE 6 - VT 73 - END OF PROJECT (STA 22+220 - STA 22+656)**
  1) ESTABLISH PERIMETER CONTROLS AND MARK BOUNDARIES FOR SENSITIVE RESOURCE AREAS, SUCH AS WETLANDS AND RIPARIAN BUFFER ZONES.
  2) INSTALL SEDIMENT CONTROL MEASURES.
  3) CLEAR AND GRUB.
  4) REMOVAL OF EXISTING PORTLAND CEMENT CONCRETE ROADBED.
  5) INSTALLATION OF PROPOSED SEWER MAINS, WATER MAINS AND STORM DRAINAGE.
  6) INSTALLATION OF DUCTBANK, VAULTS AND OTHE APPURTENANCES REQUIRED FOR NEW UNDERGROUND UTILITIES.
  7) CONSTRUCT TEMPORARY ROADWAY FOR PHASE I TRAFFIC.
  8) PERFORM PHASE 1 CONSTRUCTION, LIMIT AREA OF DISTURBANCE TO < 1 ACRE.
  9) CONCURRENTLY INSTALL TEMPORARY AND PERMANENT STABILIZATION AND EPSC MEASURES AS WORK PROGRESSES SO THAT EMBANKMENT IS STABILIZED PRIOR TO ALLOWING RUNOFF TO DISCHARGE TO IT.
  10) PAVE PHASE 1 CONSTRUCTION AREA (BASE COURSE).
  11) SHIFT TRAFFIC ONTO CONSTRUCTED PHASE 1 ROADWAY AND BEGIN PHASE 2 CONSTRUCTION AND CONSTRUCT FINAL ROADWAY.
  12) REPEAT STEPS 4 THROUGH 10 CONCURRENT WITH PHASE 2 CONSTRUCTION.
  13) PLACE PAVEMENT WEARING COURSE AND PAVEMENT MARKINGS.

4. **STABILIZATION OF EXPOSED SOILS**
ALL SOIL DATA CAME FROM THE U.S. DEPARTMENT OF AGRICULTURE SOIL CONSERVATION SERVICE FOR THE COUNTY OF RUTLAND, VERMONT. SOIL S ON THE PROJECT ARE:

- DEERFIELD LOAMY SAND, 0-4% SLOPES, K = 0.17.
- WINDSOR LOAMY SAND, 3-8% SLOPES, K = 0.17.
- WINDSOR LOAMY SAND, 8-15% SLOPES, K = 0.17.
- FARMINGTON-GALWAY-GALOO COMPLEX, 5-25% SLOPES, VERY ROCKY, K = 0.32.

NOTE: K-VALUES PER VTANR ARE AS FOLLOWS:
0.0-0.18 = LOW EROSION POTENTIAL
0.18-0.36 = MODERATE EROSION POTENTIAL
> 0.36 = HIGH EROSION POTENTIAL

- SEED AND HAY MULCH WILL BE USED FOR BOTH TEMPORARY AND PERMANENT STABILIZATION MEASURES. TEMPORARY EROSION MATTING WILL BE USED IN PLACE OF MULCH FOR SLOPES GREATER THAN 1V:3H (SEE 2011 VERMONT STANDARDS AND SPECIFICATIONS FOR CONSTRUCTION SECTION 755.11A FOR PROPER APPLICATION). MULCH IS TO BE APPLIED AT A MINIMUM APPLICATION RATE SHOWN ON THE EPSC DETAILS, UNLESS DIRECTED OTHERWISE BY THE ENGINEER.

- DISTURBED AREAS AND SOIL STOCKPILES THAT WILL NOT BE WORKED FOR MORE THAN 7 DAYS SHALL BE TEMPORARILY STABILIZED WITH HAY MULCH/ROLLED EROSION CONTROL PRODUCT (RECP) WITHIN 48 HOURS. ADDITIONAL STABILIZATION WILL BE REQUIRED FOR DISTURBED AREAS AND SOIL STOCKPILES THAT WILL NOT BE WORKED FOR MORE THAN 30 DAYS; TEMPORARY SEED WILL BE REQUIRED WITHIN 48 HOURS IN ADDITION TO THE STABILIZATION REQUIRED ABOVE.

- ALL AREAS OF DISTURBANCE MUST HAVE TEMPORARY OR PERMANENT STABILIZATION WITHIN 7 DAYS OF INITIAL DISTURBANCE. AFTER THIS TIME, ANY DISTURBANCE IN THE AREA MUST BE STABILIZED AT THE END OF EACH WORK DAY UNLESS WORK IS TO CONTINUE WITH THE NEXT 24 HOURS AND THERE IS NO PRECIPITATION FORECASTED.

- EXPOSED AREAS THAT HAVE ACHIEVED FINAL GRADE SHALL BE PERMANENTLY STABILIZED WITHIN 48 HOURS.

- IN AREAS WHERE VEGETATIVE COVER WILL PROVIDE PERMANENT STABILIZATION, SEEDING SHALL BE COMPLETED BETWEEN APRIL 15 AND SEPTEMBER 15.

- BEFORE NEWLY CONSTRUCTED STORMWATER CONVEYANCE CHANNELS OR PIPES ARE MADE OPERATIONAL, ADEQUATE OUTLET PROTECTION AND ANY REQUIRED TEMPORARY OR PERMANENT CHANNEL LINING SHALL BE INSTALLED IN BOTH THE CONVEYANCE CHANNEL AND THE RECEIVING CHANNEL.

5. **DRAINAGE AREAS AND DISCHARGE POINTS**
THIS PROJECT IS GENERALLY BEING CONSTRUCTED ON AN EXISTING ALIGNMENT THROUGH A WELL DEVELOPED AREA OF BRANDON. THE PROJECT IS CONSIDERED URBAN AND IS OPEN WITH SOME TREES. THE VEGETATION CONSISTS OF INDIVIUAL TREES, GRASS SLOPES AND LAWNS.

THE PROJECT HAS SEVEN DISCHARGE POINTS TO THE RECEIVING WATERS, TWO UNNAMED STREAMS, A WETLAND AND THE NESHOBE RIVER. EACH DISCHARGE CORRESPONDS TO A DRAINAGE AREA IN WHICH THE PROJECT HAS BEEN DIVIDED.

- **DRAINAGE AREA 1**
INCLUDES AREA SOUTH OF THE BEGINNING OF THE PROJECT (STA. 20+560) AND EXTENDS TO THE INTERSECTION OF HIGH ST AND US 7. RUNOFF IS COLLECTED IN A CLOSED DRAINAGE SYSTEM AND DISCHARGES TO AN OUTFALL CHANNEL (APPROXIMATELY 130 FEET LONG) ACROSSS FROM HIGH ST AND TRAVELS APPROXIMATELY 340 FEET VIA A WOODS GULLY TO AN UNNAMED STREAM. THIS CLOSED COLLECTION SYSTEM WILL BE CONNECTED TO THE CLOSED COLLECTION SYSTEM FROM NH 019-3(495) AT STA. 20+820 RT. THE NH 019-3(495) SYSTEM CURRENTLY DISCHARGES AT SAME LOCATION NOTED PREVIOUSLY. THE TOTAL AREA OF DRAINAGE AREA 1 IS 6.89 AC.

- **DRAINAGE AREA 2**
DRAINAGE AREA IS FROM HIGH ST AND US 7 INTERSECTION TO A CREST IN THE ROADWAY AT STA. 21+240. RUNOFF IS COLLECTED IN A CLOSED DRAINAGE SYSTEM AND DISCHARGES TO AN UNNAMED STREAM WHERE IT CROSSES US 7 AT STA. 21+040. THE TOTAL AREA OF DRAINAGE AREA 2 IS 9.08 AC.

- **DRAINAGE AREA 3A & 3B**
DRAINAGE AREA IS FROM CREST IN ROADWAY AT STA. 21+240 TO A DISCHARGE POINT OFF OF CHURCH ST. RUNOFF IS COLLECTED IN A CLOSED DRAINAGE SYSTEM ALONG US 7 ONTO CARVER ST TO A DRAINAGE MANHOLE AT THE UPPER SECTION OF ROSSITER ST. WATER IN THE CARVER AND UPPER ROSSSITER ST AREA WILL BE TREATED IN A SAND FILTER AND DIRECTED BACK INTO THE STORMWATER COLLECTION SYSTEM TO AN EXISTING OUTFALL BEHIND CHUCRCH ST VIA THE EXISTING DRAINAGE SYSTEM. THE TOTAL AREA OF DRAINAGE AREA 3 IS 16.33 AC.

- **DRAINAGE AREA 4**
DRAINAGE AREA IS FROM A CREST IN US 7 NEAR FIRST BRANDON NATIONAL BANK NORTHERLY TO THE NESHOBE RIVER BRIDGE. RUNOFF IS COLLECTED IN A CLOSED DRAINAGE SYSTEM AND DISCHARGES INTO THE NESHOBE RIVER. THE TOTAL AREA FOR DRAINAGE AREA 4 IS 1.40 AC.

EROSION PREVENTION & SEDIMENT CONTROL NARRATIVE

PROJECT NAME:	BRANDON
PROJECT NUMBER:	NH 019-3(496)

FILE NAME: zb008s6-ecnotes.dgn	PLOT DATE: 2/23/2017
PROJECT LEADER: C. BEAN	DRAWN BY: N. LEMAY
DESIGNED BY: N. LEMAY	CHECKED BY: J. BRZEZOWSKI
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- **DRAINAGE AREA 5**
  DRAINAGE AREA IS FROM W. SEMINARY RD TO NORTH OF PROSPECT ST. RUNOFF IS COLLECTED IN A CLOSED DRAINAGE SYSTEM THAT DISCHARGES TO AN UNNAMED STREAM WHICH CONVEYS TO THE NESHOBE RIVER. THE TOTAL AREA FOR DRAINAGE AREA 5 IS 17.1 AC.

- **DRAINAGE AREA 6**
  DRAINAGE AREA IS FROM NORTH OF PROSPECT ST NORTHERLY TO CRESCENT PARK NEAR THE VT 73 INTERSECTION. RUNOFF IS COLLECTED IN A CLOSED DRAINAGE SYSTEM TO AN OUTFALL LOCATED IN THE WOODS BEHIND THE POST OFFICE BUILDING AT STA. 22+090 LT. THE TOTAL AREA FOR DRAINAGE AREA 6 IS 7.52 AC.

- **DRAINAGE AREA 7**
  DRAINAGE AREA IS FROM CRESCENT PARK NEAR THE VT 73 INTERSECTION NORTH TO THE PROJECT LIMIT. RUNOFF IS COLLECTED IN A CLOSED DRAINAGE SYSTEM AND DISCHARGES INTO A CLASS 2 WETLAND ON THE WEST SIDE OF US 7 JUST NORTH OF THE BRANDON AUTO SALES LOT. TOTAL AREA OF DRAINAGE AREA 7 IS 38.4 AC.

DRAINAGE AREA SUMMARY

DRAINAGE AREA	TOTAL DISTURB. (ACRES)	BEGIN - END STATION	DISCHARGE POINT STATION	RECEIVING WATER
1	0.81	218 METERS SOUTH OF BEGIN PROJECT - 20+880	20+880	UNNAMED STREAM
2	2.37	20+880 - 21+240	21+040	UNNAMED STREAM
3A	1.11	21+240 - 21+440	CHURCH ST	UNNAMED STREAM
3B	4.59	21+440 - 21+640	CHURCH ST	UNNAMED STREAM
4	1.27	21+640 - 21+820	21+810	NESHOBE RIVER
5	1.91	21+820 - 22+020	21+890	NESHOBE RIVER
6	2.41	22+020 - 22+190	22+090	NESHOBE RIVER
7	3.52	22+190 - 22+656	22+640	WETLAND

SEE THE EPSC SUMMARY SHEETS FOR FURTHER DETAIL REGARDING DRAINAGE AREAS AND RELATED SLOPE AND SOIL ERODIBILTY.

7. WASTE, BORROW, AND STAGING AREAS

- OFF-SITE WASTE AREAS HAVE NOT BEEN IDENTIFIED FOR THIS PROJECT. LARGE QUANTITIES OF WASTE ON THE ORDER OF 63,616 CUBIC METERS ARE EXPECTED AS THIS PROJECT HAS SUBSTANTIALLY MORE EXCAVATION THAN EMBANKMENT. IT WILL BE THE CONTRACTOR'S RESPONSIBILITY TO IDENTIFY AND PERMIT, AS NECESSARY, ANY OFF-SITE WASTE AREAS THAT WILL BE NEEDED. ALL EROSION PREVENTION AND SEDIMENT CONTROL MEASURES NECESSARY FOR WASTE AND STAGING AREAS OUTSIDE THE PROJECT LIMITS SHALL BE PAID FOR PER SECTION 105.29 OF THE SPECIFICATIONS.

- LOCATE ADDITIONAL AREAS FOR DISPOSAL OF STUMPS, EXCESS SOILS AND COLLECTED SEDIMENT, IF NECESSARY. DISPOSE OF THESE MATERIALS IN A MANNER THAT WILL NOT RESULT IN SEDIMENTS ENTERING WATERS OF THE STATE.

- DISPOSAL SITES REQUIRE RELATIVELY LEVEL TERRAIN WITH AN ISOLATION DISTANCE OF AT LEAST 30M FROM ANY SURFACE WATERS, INCLUDING WETLANDS.

- VEHICLE AND EQUIPMENT STORAGE AREAS OR AREAS ADJACENT TO CONSTRUCTION TRAILERS OR OTHER HIGH TRAFFIC AREAS SHALL BE COVERED WITH GEOTEXTILE FABRIC AND 300MM OF GRAVEL. FOLLOWING COMPLETION OF CONSTRUCTION, ALL NON-NATIVE MATERIALS SHALL BE REMOVED FROM THE STAGING AREA. COMPACTED, RUTTED, OR OTHERWISE DISTURBED SOILS SHALL BE TILLED, RAKED, SEEDED AND MULCHED.

- ERODIBLE MATERIALS STOCKPILED WITHIN THE MATERIAL STORAGE AREAS SHALL BE ISOLATED WITH SILT FENCE OR OTHER ACCEPTABLE SEDIMENT BARRIER. SOIL STOCKPILED ON THE SITE SHALL BE SEEDED AND MULCHED.

- STABILIZED CONSTRUCTION ENTRANCES WILL BE MAINTAINED TO CONTROL VEHICLE TRACKING OFFSITE.

8. WINTER CONSTRUCTION REQUIREMENTS

IT IS EXPECTED THAT CONSTRUCTION ACTIVITIES WILL CONTINUE INTO THE WINTER CONSTRUCTION SEASON, DEPENDING ON ACTUAL FIELD AND WEATHER CONDITIONS. IF ACTIVITIES ARE ON-GOING BETWEEN OCTOBER 15 AND APRIL 15, THE CONTRACTOR SHALL FOLLOW REQUIREMENTS FOR WINTER CONSTRUCTION, AS DEFINED IN SPECIFIC PERMIT CONDITIONS AND AS FOLLOWS:

- ENLARGED ACCESS POINTS STABILIZED TO PROVIDE FOR SNOW STOCKPILING.
- LIMITS OF DISTURBANCE MOVED OR REPLACED TO REFLECT BOUNDARY OF WINTER WORK.
- DEVELOPMENT OF A SNOW MANAGEMENT PLAN THAT INCLUDES:
  - ADEQUATE STORAGE AND CONTROL OF MELT-WATER
  - STORAGE OF CLEARED SNOW TO BE PLACED DOWN SLOPE OF DISTURBED AREAS AND OUT OF STORMWATER TREATMENT STRUCTURES
- A MINIMUM 7.6-METER (25-FOOT) BUFFER SHALL BE MAINTAINED FROM PERIMETER CONTROLS.
- DRAINAGE STRUCTURES MUST BE KEPT OPEN AND FREE OF SNOW AND ICE DAMS.
- SILT FENCE AND OTHER PRACTICES REQUIRING EARTH DISTURBANCE MUST BE INSTALLED AHEAD OF FROZEN GROUND.
- MULCH TO BE APPLIED AT TWICE THE REGULAR RATE, AS SHOWN ON THE EPSC DETAILS, UNLESS DIRECTED OTHERWISE BY THE ENGINEER.
- AREAS OF DISTURBED SOILS MUST BE STABILIZED AT THE END OF EACH WORK DAY, WITH THE FOLLOWING EXCEPTIONS:
  - IF NO PRECIPITATION WITHIN 24 HOURS IS FORECAST AND WORK WILL RESUME IN THE SAME AREA WITHIN 24 HOURS.
  - DISTURBED AREAS THAT COLLECT AND RETAIN RUNOFF, SUCH AS OPEN UTILITY TRENCHES, MUST BE STABILIZED AT THE END OF EACH WORK WEEK.
- PRIOR TO STABILIZATION, SNOW OR ICE MUST BE REMOVED TO LESS THAN 25MM (1") THICKNESS.

CONTRACTOR RESPONSIBILITIES, LIMITATIONS & PROHIBITIONS

1. GENERAL NOTES

- IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO AMEND/UPDATE ALL PLANS AND EXISTING PERMITS WHEN ADDING DETAILED CONSTRUCTION PHASING OR ANYTHING ELSE THAT MAY DEVIATE FROM THE APPROVED PLANS AS DIRECTED BY THE RESIDENT ENGINEER.

- OTHER THAN THOSE SHOWN ON THE PLANS ALL LAND DISTURBANCES WITHIN 15M (50 FEET) OF ALL WATER BODIES, MEASURED FROM THE TOP OF BANK, AND WETLANDS, ARE PROHIBITED WITHOUT FURTHER REGULATORY REVIEW.

- CONTRACTOR TO MAINTAIN ALL EXISTING STREAMS AND RIPARIAN BUFFER ZONES IN THEIR NATURAL CONDITION.

- OFF-SITE DISCHARGES OF ANY MATERIAL OTHER THAN STORMWATER, SUCH AS VEHICLE AND EQUIPMENT MAINTENANCE SPILLS, FUELS, WASH WATER, CONSTRUCTION DEBRIS, OIL, WET CONCRETE (INCLUDING WASHOUT WATER FROM CONCRETE BATCH TRUCKS OR EQUIPMENT USED TO MIX CONCRETE), AND OTHER SUBSTANCES, ARE PROHIBITED.

- THE FAILURE TO PROMPTLY ABATE THE DISCHARGE OF SEDIMENT OR ANY OTHER WASTE WHICH CAUSES A VISIBLE DISCOLORATION OF SURFACE WATERS (INCLUDING WETLANDS), OR IS FOUND TO BE VIOLATING WATER QUALITY STANDARDS BASED ON MONITORING, IS PROHIBITED. ANY CORRECTIVE ACTION UNDERTAKEN TO REMOVE SEDIMENT FROM A WETLAND IS ALSO PROHIBITED.

- WEATHER CONDITIONS WILL BE MONITORED DURING THE CONSTRUCTION SEASON. IF AN EXTENDED RAIN PERIOD, HEAVY RAIN, OR HEAVY SNOWMELT EVENT IS PREDICTED, EXPOSED SOIL AREAS WILL BE MULCHED PRIOR TO AND DAILY DURING THE RAIN EVENT. IF DETERMINED NECESSARY BY THE RESIDENT ENGINEER, WORK MAY BE SUSPENDED OR LIMITED DURING THE STORM.

- ALL TEMPORARY EROSION AND SEDIMENT CONTROL MEASURES SHALL BE REMOVED WITHIN 30 DAYS AFTER FINAL SITE STABILIZATION OR AFTER THE TEMPORARY MEASURES ARE NO LONGER NEEDED, UNLESS OTHERWISE AUTHORIZED.

- DEWATERING: THE PERMIT WILL REQUIRE A DEWATERING PLAN TO BE APPROVED BY DEC PRIOR TO DEWATERING ACTIVITIES.

- SILT FENCE LOCATIONS SHOWN ON THE FOLLOWING PLAN SHEETS ARE APPROXIMATE. THE CONTRACTOR IS RESPONSIBLE FOR INSTALLING THE SILT FENCE IN ACCCORDANCE WITH THE GUIDELINES SET FORTH IN THE VERMONT GENERAL PERMIT FOR STORMWATER RUNOFF FROM CONSTRUCTION SITES. THE RESIDENT ENGINEER AND ON-SITE COORDINATOR SHALL APPROVE ALL SILT FENCE LOCATIONS PRIOR TO PLACEMENT.

2. EPSC PLAN

THE CONTRACTOR SHALL SUBMIT AN EPSC PLAN IN ACCORDANCE WITH 652.10 EPSC PLAN AND PROJECT PERMITS. THE PLAN AT A MINIMUM SHALL TAKE INTO CONSIDERATION THE FOLLOWING:

- **DRAINAGE AREA 1**
  - THE DISTURBANCE AT ANY ONE TIME IN THIS AREA SHALL BE LIMITED TO 0.81 ACRES.
  - STORMWATER RUNOFF TO BE CONTROLLED PRIOR TO, DURING, AND THEN FOLLOWING THE FULL COMPLETION OF THE STONE LINED OUTFALL CHANNEL.

- **DRAINAGE AREA 2**
  - THE DISTURBANCE AT ANY ONE TIME IN THIS AREA SHALL BE LIMITED TO 2.37 ACRES.
  - INLET CHANNEL, OUTLET CHANNEL AND STORMWATER TREATMENT STRUCTURE SHALL BE CONSTRUCTED AND STABILIZED PRIOR TO RECEIVING RUNOFF FROM THE CLOSED DRAINAGE SYSTEM AND STREAM FLOW.

- **DRAINAGE AREA 3A**
  - THE DISTURBANCE AT ANY ONE TIME IN THIS AREA SHALL BE LIMITED TO 1.11 ACRES.
  - DRAINAGE AREA 3A TO BE CONNECTED TO DRAINAGE AREA 3B.

- **DRAINAGE AREA 3B**
  - THE DISTURBANCE AT ANY ONE TIME IN THIS AREA SHALL BE LIMITED TO 4.59 ACRES.
  - PROPOSED SAND FILTER ON ROSSITER ST SHALL BE CONSTRUCTED AND STABILIZED PRIOR TO RECEIVING RUNOFF FROM THE CLOSED DRAINAGE SYSTEM. THE SAND FILTER WILL REMAIN OFFLINE UNTIL ALL AREAS WITHIN THE DRAINAGE AREA HAVE REACHED FINAL STABILIZATION.
  - EXISTING DRAINAGE ON ROSSITER ST BEYOND DMH AT STA. 37+067 WILL NOT BE REPLACED.

- **DRAINAGE AREA 4**
  - THE DISTURBANCE AT ANY ONE TIME IN THIS AREA SHALL BE LIMITED TO 1.27 ACRES.

- **DRAINAGE AREA 5**
  - THE DISTURBANCE AT ANY ONE TIME IN THIS AREA SHALL BE LIMITED TO 1.91 ACRES.
  - INLET CHANNEL, OUTLET CHANNEL, OVERFLOW CHANNEL AND STORMWATER TREATMENT STRUCTURE SHALL BE CONSTRUCTED AND STABILIZED PRIOR TO RECEIVING RUNOFF FROM THE CLOSED DRAINAGE SYSTEM AND STREAM FLOW.

- **DRAINAGE AREA 6**
  - THE DISTURBANCE AT ANY ONE TIME IN THIS AREA SHALL BE LIMITED TO 2.41 ACRES.
  - STONE LINED OUTLET CHANNEL AND STORMWATER TREATMENT STRUCTURE SHALL BE CONSTRUCTED AND STABILIZED PRIOR TO RECEIVING RUNOFF FROM THE CLOSED DRAINAGE SYSTEM.

- **DRAINAGE AREA 7**
  - THE DISTURBANCE AT ANY ONE TIME IN THIS AREA SHALL BE LIMITED TO 3.52 ACRES.
  - INLET AND OUTLET CHANNELS SHALL BE CONSTRUCTED AND STABILIZED PRIOR TO RECEIVING RUNOFF FROM THE CLOSED DRAINAGE SYSTEM.

THE EPSC PLAN SHALL ALSO INCLUDE INFORMATION REGARDING:
- THE CONSTRUCTION OF STONE PADS, INCLUDING STREAM DIVERSION PLANS
- METHOD FOR TREATMENT OF DISCHARGE FROM DEWATERING.
- STABILIZATION OF OPERATIONAL STORMWATER TREATMENT PRACTICES PRIOR TO DIRECTING RUNOFF TO THEM.

3. INSPECTION & MONITORING NOTES

- CONTRACTOR TO CONDUCT INSPECTIONS AND MONITORING IN ACCORDANCE WITH THE SPECIAL PROVISIONS AND PERMIT SPECIFIC REQUIREMENTS.

EROSION PREVENTION & SEDIMENT CONTROL NARRATIVE

PROJECT NAME: BRANDON
PROJECT NUMBER: NH 019-3(496)

FILE NAME: zb008s6-ecnotes.dgn
PROJECT LEADER: C. BEAN
DESIGNED BY: N. LEMAY
PLOT DATE: 2/23/2017
DRAWN BY: N. LEMAY
CHECKED BY: J. BRZEZOWSKI
SHEET 189 OF 601

CLD 02-0448 MODEL: 2

ISSUED FOR CONSTRUCTION

VAOT URBAN LAWN MIX

LBS/AC						
WEIGHT	BROADCAST	HYDROSEED	NAME	LATIN NAME	GERM	PURITY
42.5%	34	68	CREEPING RED FESCUE	FESTUCA RUBRA X RUBRA	85%	98%
20.0%	16	32	PERENNIAL RYE GRASS	LOLIUM PERENNE	90%	95%
32.5%	26	52	KENTUCKY BLUE GRASS	POA PRATENSIS	85%	85%
5.0%	4	8	ANNUAL RYE GRASS	LOLIUM MULTIFLORUM	85%	95%
100%	80	160				

GENERAL AMENDMENT GUIDANCE		
FERTILIZER	LIME	
10/20/10	AG LIME	PELLITIZED
500 LBS/AC	2 TONS/AC	1 TONS/AC

CONSTRUCTION GUIDANCE

1. SEED MIX: THE URBAM AREA MIX SHALL BE USED FOR ALL TURF ESTABLISHMENT UNLESS NOTED OTHERWISE ON THE PLANS OR AS DIRECTED BY THE ENGINEER.
2. SEED MIX: THE URBAN AREA MIX SHALL NOT BE USED IN WETLANDS OR ANY WATERS OF THE STATE OF VERMONT.
3. SEED MIX: SHALL NOT HAVE A WEED CONTENT EXCEEDING 0.40% BY WEIGHT AND SHALL BE FREE OF ALL NOXIOUS SEED.
4. FERTILIZER AND LIMESTONE: SHALL FOLLOW RATES SHOWN ON PLAN OR AS DIRECTED BY THE ENGINEER
5. HAY MULCH: TO BE PLACED ON EARTH SLOPES AT THE RATE OF 2 TONS/ACRE, ACHIEVE 90% GROUND COVER OR AS DIRECTED BY THE ENGINEER.
6. HYDROSEEDING: ALTHOUGH GUIDANCE IS GIVEN ABOVE THE SITE CONDITIONS AND THE TYPE OF HYDROSEED WILL ULTIMATELY DICTATE THE AMOUNTS AND TYPES OF SOIL AMENDMENTS TO BE APPLIED
7. TURF ESTABLISHMENT: PLACING SEED, FERTILIZER, LIME AND MULCH PRIOR TO SEPTEMBER 15 AND AFTER APRIL 15 CAN BETTER ENSURE A VIGOROUS GROWTH OF GRASS.

ADAPTED FROM VTRANS TECHNICAL LANDSCAPE MANUAL FOR ROADWAYS AND TRANSPORTATION FACILITIES

TURF ESTABLISHMENT

THIS WORK SHALL BE PERFORMED IN ACCORDANCE WITH SECTION 651FOR SEED (PAY ITEM 651.15)

REVISIONS	
JANUARY 22, 2015	WHF

VAOT LOW GROW/FINE FESCUE MIX

LBS/AC						
WEIGHT	BROADCAST	HYDROSEED	NAME	LATIN NAME	GERM	PURITY
38%	57	95	CREEPING RED FESCUE	FESTUCA RUBRA VAR. RUBRA	90%	98%
29%	43.5	72.5	HARD FESCUE	FESTUCA LONGIFOLIA	85%	95%
15%	22.5	37.5	CHEWINGS FESCUE	FESTUCA RUBRA VAR. COMMUTATA	87%	95%
15%	22.5	37.5	ANNUAL RYEGRASS	LOLIUM MULTIFLORUM	90%	95%
3%	4.5	7.5	INERTS			
100%	150	250				

VAOT RURAL AREA MIX

LBS/AC						
WEIGHT	BROADCAST	HYDROSEED	NAME	LATIN NAME	GERM	PURITY
37.5%	22.5	45	CREEPING RED FESCUE	FESTUCA RUBRA VAR. RUBRA	85%	98%
37.5%	22.5	45	TALL FESCUE	FESTUCA ARUNDINACEA	90%	95%
5.0%	3	6	RED TOP	AGROSTIS GIGANTEA	90%	95%
15.0%	9	18	WHITE FIELD CLOVER	TRIFOLIUM REPENS	85%	98%
5.0%	3	6	ANNUAL RYE GRASS	LOLIUM MULTIFLORUM	85%	95%
100%	60	120				

GENERAL AMENDMENT GUIDANCE		
FERTILIZER	LIME	
10/20/10	AG LIME	PELLITIZED
500 LBS/AC	2 TONS/AC	1 TONS/AC

CONSTRUCTION GUIDANCE

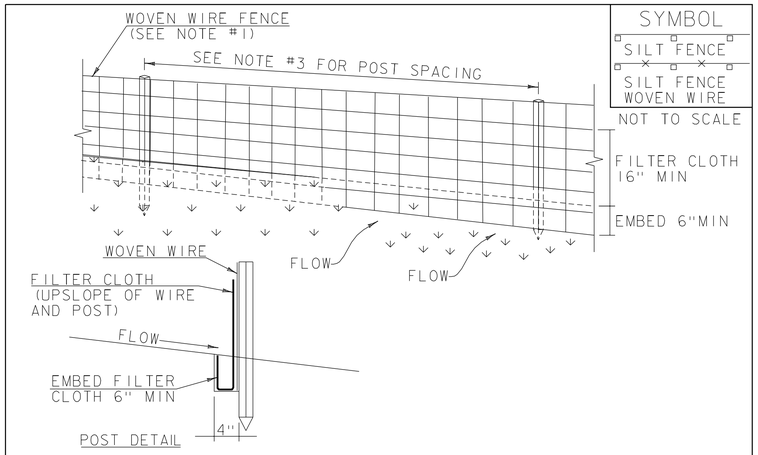
1. SEED MIX: THE CONTRACTOR SHALL COORDINATE WITH THE RESIDENT ENGINEER ON WHICH SEED MIX TO USE.
2. SEED MIX: USE AS INDICATED IN THE PLANS AND/OR FOR ALL ESTABLISHED UPLAND (NON WETLAND) AREAS DISTURBED BY THE CONTRACTOR.
3. ALL SEED MIXTURES: SHALL NOT HAVE A WEED CONTENT EXCEEDING 0.40% BY WEIGHT AND SHALL BE FREE OF ALL NOXIOUS SEED.
4. FERTILIZER AND LIMESTONE: SHALL FOLLOW RATES SHOWN ON PLAN OR AS DIRECTED BY THE ENGINEER.
5. HAY MULCH: TO BE PLACED ON EARTH SLOPES AT THE RATE OF 2 TONS/ACRE, ACHIEVE 90% GROUND COVER OR AS DIRECTED BY THE ENGINEER.
6. HYDROSEEDING: ALTHOUGH GUIDANCE IS GIVEN ABOVE THE SITE CONDITIONS AND THE TYPE OF HYDROSEED PROPOSED FOR USE WILL ULTIMATELY DICTATE THE AMOUNTS AND TYPES OF SOIL AMENDMENTS TO BE APPLIED.
7. TURF ESTABLISHMENT: PLACING SEED, FERTILIZER, LIME AND MULCH PRIOR TO SEPTEMBER 15 AND AFTER APRIL 15 CAN BETTER ENSURE A VIGOROUS GROWTH OF GRASS.

ADAPTED FROM VTRANS TECHNICAL LANDSCAPE MANUAL FOR ROADWAYS AND TRANSPORTATION FACILITIES

TURF ESTABLISHMENT

THIS WORK SHALL BE PERFORMED IN ACCORDANCE WITH SECTION 651FOR SEED (PAY ITEM 651.15)

REVISIONS	
JANUARY 12, 2015	WHF



CONSTRUCTION SPECIFICATIONS

1. WOVEN WIRE REINFORCED FENCE IS REQUIRED WITHIN 100' UPSLOPE OF RECEIVING WATERS WHEN THE PROJECT FALLS UNDER A CONSTRUCTION STORMWATER PERMIT. WOVEN WIRE SHALL BE A MIN. 14 GAUGE WITH A 6" MAX. MESH OPENING.
2. FILTER CLOTH SHALL BE EITHER FILTER X, MIRAFI100X, STABILINKA T140N OR APPROVED EQUIVALENT.
3. POST SPACING FOR WIRE-BACKED FENCE SHALL BE 10' MAXIMUM. FOR FILTER-CLOTH FENCE, WHEN ELONGATION IS >50%, POST SPACING SHALL NOT EXCEED 4' AND WHEN ELONGATION IS <50%, POST SPACING SHALL NOT EXCEED 6'.
4. WOVEN WIRE FENCE IS TO BE FASTENED SECURELY TO FENCE POSTS WITH WIRE TIES. FILTER CLOTH IS TO BE FASTENED SECURELY TO WOVEN WIRE FENCE WITH TIES SPACED EVERY 24" AT TOP AND MID SECTION.
5. WHEN TWO SECTIONS OF FILTER CLOTH ADJOIN EACH OTHER THEY SHALL BE OVER-LAPPED BY 6" AND FOLDED.
6. MAINTENANCE SHALL BE PERFORMED AS NEEDED AND MATERIAL REMOVED WHEN SEDIMENT REACHES HALF OF FABRIC HEIGHT.

ADAPTED FROM DETAILS PROVIDED BY: NEW YORK STATE DEC
ORIGINALLY DEVELOPED BY USDA-NRCS
VERMONT DEPARTMENT OF ENVIRONMENTAL CONSERVATION

SILT FENCE

NOTES:
REFER TO "THE VERMONT STANDARDS & SPECIFICATIONS FOR EROSION PREVENTION & SEDIMENT CONTROL -2006- "FROM THE VT AGENCY OF NATURAL RESOURCES FOR ADDITIONAL GUIDANCE.

THIS WORK SHALL BE PERFORMED IN ACCORDANCE WITH SECTION 649 AND AS SHOWN IN THE PLANS FOR GEOTEXTILE FOR SILT FENCE (PAY ITEM 649.51) OR GEOTEXTILE FOR SILT FENCE, WOVEN WIRE REINFORCED (PAY ITEM 649.515).

REVISIONS	
MARCH 21, 2008	WHF
DECEMBER 11, 2008	WHF
JANUARY 13, 2009	WHF

EROSION PREVENTION & SEDIMENT CONTROL DETAILS

PROJECT NAME: BRANDON
PROJECT NUMBER: NH 019-3(496)

FILE NAME: zb008s6-ecdet.dgn
PROJECT LEADER: C. BEAN
DESIGNED BY: M. HALEY

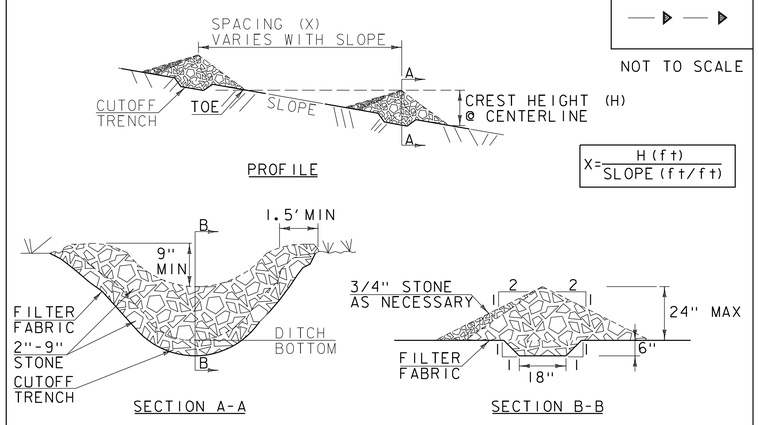
PLOT DATE: 2/23/2017
DRAWN BY: M. HALEY
CHECKED BY: D. MUNRO
SHEET 190 OF 601

CLD 02-0448 MODEL:1

ISSUED FOR CONSTRUCTION

SYMBOL

NOT TO SCALE



CONSTRUCTION SPECIFICATIONS

1. STONE WILL BE PLACED ON A FILTER FABRIC FOUNDATION.
2. CHECK DAMS SHALL BE SPACED SO THAT THE ELEVATION OF THE CREST OFTHE DOWNSTREAM DAM IS AT THE SAME ELEVATION AS THE TOE OF THE UPSTREAM DAM.
3. 3/4" FILTERING STONE MAY BE ADDED TO THE FACE OF THE CHECK DAM AS NECESSARY.
4. EXTEND THE STONE A MINIMUM OF 1.5' BEYOND THE DITCH BANKS TO PREVENT CUTTING AROUND THE DAM.
5. PROTECT CHANNEL DOWNSTREAM OF THE LOWEST CHECK DAM FROM SCOUR AND EROSION WITH STONE OR LINER AS APPROPRIATE.
6. ENSURE THAT CHANNEL APPURTENANCES SUCH AS CULVERT ENTRANCES BELOW CHECK DAMS ARE NOT SUBJECT TO DAMAGE OR BLOCKAGE FROM DISPLACED STONE.
7. MAXIMUM DRAINAGE AREA 2 ACRES.

ADAPTED FROM DETAILS PROVIDED BY: NEW YORK STATE DEC
ORIGINALLY DEVELOPED BY USDA-NRCS
VERMONT DEPARTMENT OF ENVIRONMENTAL CONSERVATION

CHECK DAM

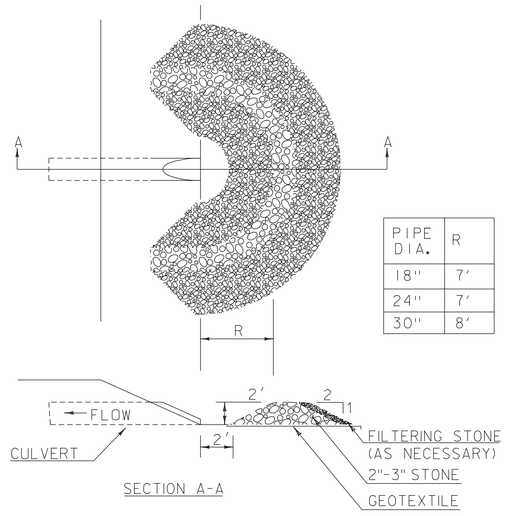
NOTES:
REFER TO "THE VERMONT STANDARDS & SPECIFICATIONS FOR EROSION PREVENTION & SEDIMENT CONTROL -2006- "FROM THE VT AGENCY OF NATURAL RESOURCES FOR ADDITIONAL GUIDANCE.

THIS WORK SHALL BE PERFORMED IN ACCORDANCE WITH SECTION 653 FOR TEMPORARY STONE CHECK DAM, TYPE I(PAY ITEM 653.25)

REVISIONS	
MARCH 21, 2008	WHF
JANUARY 8, 2009	WHF

SYMBOL

NOT TO SCALE



CONSTRUCTION SPECIFICATIONS

1. USE 2" TO 3" STONE. FILTERING STONE SHALL BE 3/4".
2. PLACE STONE OVER GEOTEXTILE.
3. ONCE THE AREAS UPSTREAM FROM THE CHECK DAM ARE STABILIZED WITH VEGETATION, THE SEDIMENT TRAPPED BEHIND THE DAM SHALL BE DISPOSED OF IN AN APPROVED WASTE AREA.
4. THE CHECK DAM(S) SHALL BE FLATTENED AND GRADED IN A MANNER WHICH PROTECTS THE AREA FROM EROSION AND CHANNEL BLOCKAGE . (GEOTEXTILE MUST BE REMOVED).
5. THE GEOTEXTILE MUST BE DISPOSED OF APPROPRIATELY.
6. THE AREA CONTRIBUTING TO THE CHECK DAM SHALL NOT EXCEED 4 ACRES.

ADAPTED FROM DETAILS PROVIDED BY: ILLINOIS USDA-NRCS
ORIGINALLY DEVELOPED BY USDA-NRCS

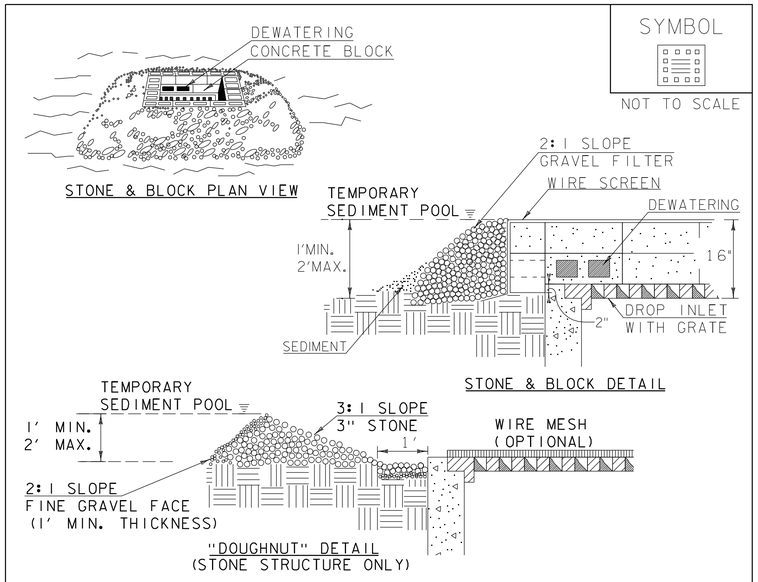
PIPE INLET PROTECTION

THIS WORK SHALL BE PERFORMED IN ACCORDANCE WITH SECTION 653 FOR INLET PROTECTION DEVICE, TYPE I(PAY ITEM 653.40).

REVISIONS	
MARCH 6, 2008	WHF
JANUARY 13, 2009	WHF

SYMBOL

NOT TO SCALE



CONSTRUCTION SPECIFICATIONS

1. LAY ONE BLOCK ON EACH SIDE OF THE STRUCTURE ON ITS SIDE FOR DEWATERING. FOUNDATION SHALL BE 2" MINIMUM BELOW REST OF INLET AND BLOCKS SHALL BE PLACED AGAINST INLET FOR SUPPORT.
2. HARDWARE CLOTH OR 1/2" WIRE MESH SHALL BE PLACED OVER BLOCK OPENINGS TO SUPPORT STONE.
3. USE CLEAN STONE OR GRAVEL 1/2"- 3/4" IN DIAMETER PLACED 2" BELOW TOP OF THE BLOCK ON A 2:1 SLOPE OR FLATTER.
4. FOR STONE STRUCTURES ONLY, A 1' THICK LAYER OF THE FILTER STONE WILL BE PLACED AGAINST THE 3" STONE AS SHOWN ON THE DRAWINGS.
5. MAXIMUM DRAINAGE AREA 1 ACRE

ADAPTED FROM DETAILS PROVIDED BY: NEW YORK STATE DEC
ORIGINALLY DEVELOPED BY USDA-NRCS
VERMONT DEPARTMENT OF ENVIRONMENTAL CONSERVATION

STONE & BLOCK DROP INLET PROTECTION

NOTES:
REFER TO "THE VERMONT STANDARDS & SPECIFICATIONS FOR EROSION PREVENTION & SEDIMENT CONTROL -2006- "FROM THE VT AGENCY OF NATURAL RESOURCES FOR ADDITIONAL GUIDANCE.

THIS WORK SHALL BE PERFORMED IN ACCORDANCE WITH SECTION 653 FOR INLET PROTECTION DEVICE, TYPE I(PAY ITEM 653.40).

REVISIONS	
MARCH 6, 2008	WHF
JANUARY 13, 2009	WHF

EROSION PREVENTION & SEDIMENT CONTROL DETAILS

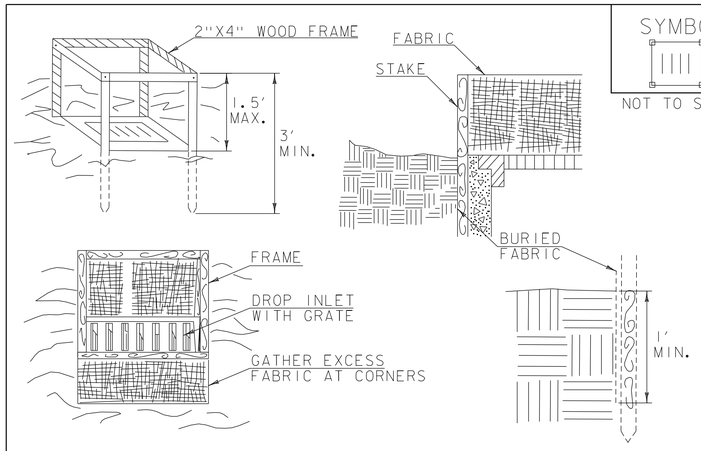
PROJECT NAME: BRANDON
PROJECT NUMBER: NH 019-3(496)

FILE NAME: zb008s6-ecdet.dgn
PROJECT LEADER: C. BEAN
DESIGNED BY: M. HALEY

PLOT DATE: 2/23/2017
DRAWN BY: M. HALEY
CHECKED BY: D. MUNRO
SHEET 191 OF 601

CLD 02-0448 MODEL: 2

ISSUED FOR CONSTRUCTION



SYMBOL

NOT TO SCALE

CONSTRUCTION SPECIFICATIONS

1. FILTER FABRIC SHALL HAVE AN APPARENT OPENING SIZE OF 40-85. BURLAP MAY BE USED FOR SHORT TERM APPLICATIONS.
2. CUT FABRIC FROM A CONTINUOUS ROLL TO ELIMINATE JOINTS. IF JOINTS ARE NEEDED THEY WILL BE OVERLAPPED TO THE NEXT STAKE.
3. STAKE MATERIALS WILL BE STANDARD 2"x 4" WOOD OR EQUIVALENT METAL WITH A MINIMUM LENGTH OF 3'.
4. SPACE STAKES EVENLY AROUND INLET 3' APART AND DRIVE A MINIMUM 18" DEEP. SPANS GREATER THAN 3' MAY BE BRIDGED WITH THE USE OF WIRE MESH BEHIND THE FILTER FABRIC FOR SUPPORT.
5. FABRIC SHALL BE EMBEDDED 1' MINIMUM BELOW GROUND AND BACKFILLED. IT SHALL BE SECURELY FASTENED TO THE STAKES AND FRAME.
6. A 2" x 4" WOOD FRAME SHALL BE COMPLETED AROUND THE CREST OF THE FABRIC FOR OVER FLOW STABILITY.
7. MAXIMUM DRAINAGE AREA 1 ACRE

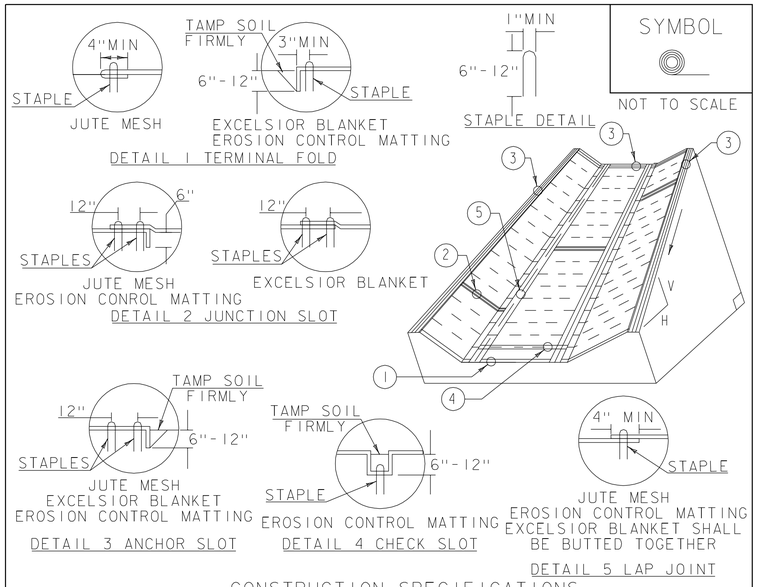
ADAPTED FROM DETAILS PROVIDED BY: NEW YORK STATE DEC
ORIGINALLY DEVELOPED BY USDA-NRCS
VERMONT DEPARTMENT OF ENVIRONMENTAL CONSERVATION

FILTER FABRIC DROP INLET PROTECTION

NOTES:
REFER TO "THE VERMONT STANDARDS & SPECIFICATIONS FOR EROSION PREVENTION & SEDIMENT CONTROL -2006- "FROM THE VT AGENCY OF NATURAL RESOURCES FOR ADDITIONAL GUIDANCE.

THIS WORK SHALL BE PERFORMED IN ACCORDANCE WITH SECTION 653 FOR INLET PROTECTION DEVICE, TYPE I (PAY ITEM 653.40).

REVISIONS	
MARCH 7, 2008	WHF
JANUARY 13, 2009	WHF



SYMBOL

NOT TO SCALE

CONSTRUCTION SPECIFICATIONS

1. EROSION MATTING, CHECK SLOTS, SHALL BE SPACED IN DITCH CHANNEL SO THAT ONE OCCURS WITHIN EACH 50' ON SLOPES OF MORE THAN 4% AND LESS THAN 6%. ON SLOPES OF 6% OR MORE, THEY SHALL BE SPACED SO THAT ONE OCCURS WITHIN EACH 25'.
2. APPLY FERTILIZER, LIME SEED PRIOR TO PLACING MATTING.
3. STAPLES ARE TO BE PLACED ALTERNATELY, IN COLUMNS APPROXIMATELY 2' APART AND IN ROWS APPROXIMATELY 3' APART. APPROXIMATELY 175 STAPLES ARE REQUIRED PER 4'X225' ROLL OF MATERIAL AND 125 STAPLES ARE REQUIRED PER 4'X150' ROLL OF MATERIAL.
4. DISTURBED AREAS SHALL BE SMOOTHLY GRADED. EROSION CONTROL MATERIAL SHALL BE PLACED LOOSELY OVER GROUND SURFACE. DO NOT STRETCH.
5. ALL TERMINAL ENDS AND TRANSVERSE LAPS SHALL BE STAPLED AT APPROXIMATELY 12" INTERVALS.

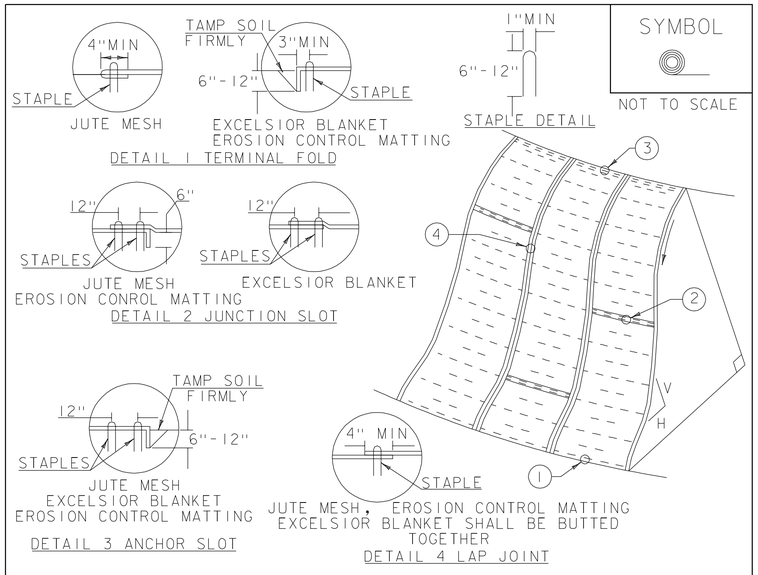
ADAPTED FROM DETAILS PROVIDED BY: NEW YORK STATE DEC
ORIGINALLY DEVELOPED BY USDA-NRCS
VERMONT DEPARTMENT OF ENVIRONMENTAL CONSERVATION

ROLLED EROSION CONTROL PRODUCT (RECP) DITCH

NOTES:
REFER TO "THE VERMONT STANDARDS & SPECIFICATIONS FOR EROSION PREVENTION & SEDIMENT CONTROL -2006- "FROM THE VT AGENCY OF NATURAL RESOURCES FOR ADDITIONAL GUIDANCE.

THIS WORK SHALL BE PERFORMED IN ACCORDANCE WITH SECTION 653 AND AS SHOWN IN THE PLANS FOR TEMPORARY EROSION MATTING (PAY ITEM 653.20) OR PERMANENT EROSION MATTING (PAY ITEM 653.21).

REVISIONS	
MARCH 8, 2007	JMF
APRIL 16, 2007	WHF
JANUARY 13, 2009	WHF



SYMBOL

NOT TO SCALE

CONSTRUCTION SPECIFICATIONS

1. APPLY TO SLOPES GREATER THAN 3H:1V OR WHERE NECESSARY TO AID IN ESTABLISHING VEGETATION.
2. APPLY FERTILIZER, LIME SEED PRIOR TO PLACING MATTING.
3. STAPLES ARE TO BE PLACED ALTERNATELY, IN COLUMNS APPROXIMATELY 2' APART AND IN ROWS APPROXIMATELY 3' APART. APPROXIMATELY 175 STAPLES ARE REQUIRED PER 4'X225' ROLL OF MATERIAL AND 125 STAPLES ARE REQUIRED PER 4'X150' ROLL OF MATERIAL.
4. DISTURBED AREAS SHALL BE SMOOTHLY GRADED. EROSION CONTROL MATERIAL SHALL BE PLACED LOOSELY OVER GROUND SURFACE. DO NOT STRETCH.
5. ALL TERMINAL ENDS AND TRANSVERSE LAPS SHALL BE STAPLED AT APPROXIMATELY 12" INTERVALS.

ADAPTED FROM DETAILS PROVIDED BY: NEW YORK STATE DEC
ORIGINALLY DEVELOPED BY USDA-NRCS
VERMONT DEPARTMENT OF ENVIRONMENTAL CONSERVATION

ROLLED EROSION CONTROL PRODUCT (RECP) SIDE SLOPE

NOTES:
REFER TO "THE VERMONT STANDARDS & SPECIFICATIONS FOR EROSION PREVENTION & SEDIMENT CONTROL -2006- "FROM THE VT AGENCY OF NATURAL RESOURCES FOR ADDITIONAL GUIDANCE.

THIS WORK SHALL BE PERFORMED IN ACCORDANCE WITH SECTION 653 AND AS SHOWN IN THE PLANS FOR TEMPORARY EROSION MATTING (PAY ITEM 653.20) OR PERMANENT EROSION MATTING (PAY ITEM 653.21).

REVISIONS	
APRIL 16, 2007	JMF
JANUARY 13, 2009	WHF

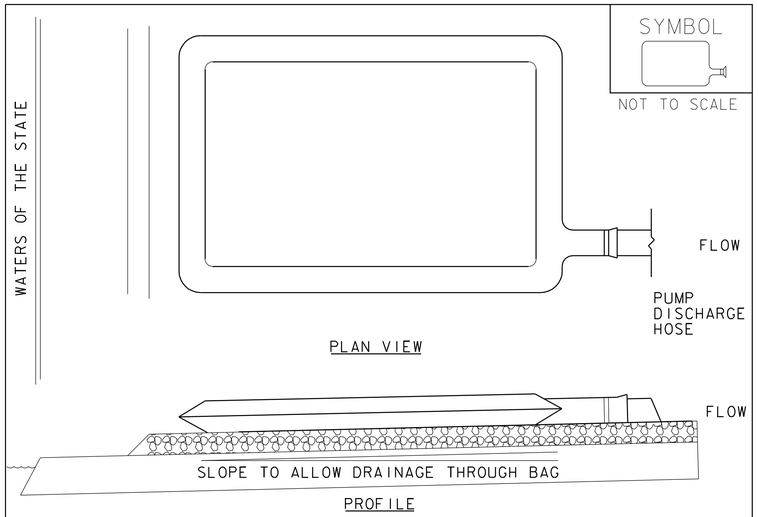
EROSION PREVENTION & SEDIMENT CONTROL DETAILS

PROJECT NAME: BRANDON
PROJECT NUMBER: NH 019-3(496)

FILE NAME: zb008s6-ecdet.dgn
PROJECT LEADER: C. BEAN
DESIGNED BY: M. HALEY
PLOT DATE: 2/23/2017
DRAWN BY: M. HALEY
CHECKED BY: D. MUNRO
SHEET 192 OF 601

CLD 02-0448 MODEL: 3

ISSUED FOR CONSTRUCTION



CONSTRUCTION SPECIFICATIONS

1. THE PRIMARY PURPOSE OF FILTER BAG IS TO RETAIN SILT, SAND, AND FINES DURING DEWATERING OPERATIONS.
2. FILTER BAGS SHALL BE INSTALLED ON A VEGETATED SLOPE GRADED TO ALLOW INCOMING WATER TO FLOW THROUGH THE BAG.
3. FILTER BAGS MAY ALSO BE PLACED ON COARSE AGGREGATE, STONE, OR HAYBALES TO INCREASE FILTRATION EFFICIENCY.
4. FILTER BAGS SHALL BE LOCATED A MINIMUM OF 50' FROM WATERS OF THE STATE UNLESS OTHERWISE APPROVED BY THE ENGINEER.
5. THE NECK OF THE FILTER BAG SHALL BE STRAPPED TIGHTLY TO THE DISCHARGE HOSE.
6. A FILTER BAG IS FULL WHEN IT NO LONGER CAN EFFICIENTLY FILTER SEDIMENT OR ALLOW WATER TO PASS AT A REASONABLE RATE.
7. FILTER BAG SHALL BE DISPOSED OF AS APPROVED IN THE EPSC PLAN OR AS DIRECTED BY THE ENGINEER.

FILTER BAG

NOTES:
REFER TO "THE VERMONT STANDARDS & SPECIFICATIONS FOR EROSION PREVENTION & SEDIMENT CONTROL -2006- "FROM THE VT AGENCY OF NATURAL RESOURCES FOR ADDITIONAL GUIDANCE.

THIS WORK SHALL BE PERFORMED IN ACCORDANCE WITH SECTION 653 FOR FILTER BAG (PAY ITEM 653.45) AND AS SPECIFIED IN THE CONTRACT.

REVISIONS	
MARCH 24, 2008	WHF
JANUARY 13, 2009	WHF

CLD 02-0448 MODEL: 4

EROSION PREVENTION & SEDIMENT CONTROL DETAILS

PROJECT NAME: BRANDON
PROJECT NUMBER: NH 019-3(496)

FILE NAME: zb008s6-ecdet.dgn
PROJECT LEADER: C. BEAN
DESIGNED BY: M. HALEY
PLOT DATE: 2/23/2017
DRAWN BY: M. HALEY
CHECKED BY: D. MUNRO
SHEET 193 OF 601

ISSUED FOR CONSTRUCTION

VAOT Metric

PROJECT DEMARCATION FENCE
20+728.3 - 20+784.2 RT
20+736.2 - 20+789.6 LT
20+788.2 - 20+815.0 RT
20+802.1 - 20+815.0 LT

INLET PROTECTION DEVICE, TYPE I
20+755.8 RT
20+781.3 LT
20+781.9 RT

SOIL INFORMATION: FARMINGTON-GALWAY-GALOO COMPLEX, 5 TO 25 PERCENT SLOPES, VERY ROCKY
K = 0.32, POTENTIALLY HIGHLY ERODIBLE
HYDROLOGIC SOIL GROUP: D

SOIL INFORMATION: DEERFIELD LOAMY SAND, 0 TO 4 PERCENT SLOPES
K = 0.17, NOT HIGHLY ERODIBLE
HYDROLOGIC SOIL GROUP: B

SOIL INFORMATION: FARMINGTON-GALWAY-GALOO COMPLEX, 25 TO 50 PERCENT SLOPES, VERY ROCKY
K = 0.32, HIGHLY ERODIBLE
HYDROLOGIC SOIL GROUP: D

DRAINAGE AREA 1

20 + 735.617
BEGIN APPROACH

20 + 778.000
END APPROACH
BEGIN PROJECT
NH 019-3(496)

POT 20+777.617 BK
POT 20+778.000 AHD =
EQ. = -0.383 m

MATCH LINE 20+815

SOIL INFORMATION: FARMINGTON-GALWAY-GALOO COMPLEX, 5 TO 25 PERCENT SLOPES, VERY ROCKY
K = 0.32, POTENTIALLY HIGHLY ERODIBLE
HYDROLOGIC SOIL GROUP: D

SOIL INFORMATION: DEERFIELD LOAMY SAND, 0 TO 4 PERCENT SLOPES
K = 0.17, NOT HIGHLY ERODIBLE
HYDROLOGIC SOIL GROUP: B

UNLESS OTHERWISE NOTED ON THESE PLANS, REVEGETATED AREAS SHALL BE SEEDED WITH URBAN LAWN MIX OR AS INDICATED BY THE ENGINEER.

NOTE
SEE CROSS SECTIONS FOR FINISHED GRADING

LEGEND

- DISTURBED AREAS REQUIRING RE-VEGETATION
- EROSION CONTROL MATTING
- PERMANENT SLOPE LIMITS
- SILT FENCE
- WOVEN WIRE SILT FENCE
- PDF — PROJECT DEMARCATION FENCE
- BF — BARRIER FENCE
- DROP INLET PROTECTION
- PIPE INLET PROTECTION
- FILTER BAG
- CHECK DAMS
- DRAINAGE DIVIDE
- SOIL BOUNDARY

0 10 20 30
SCALE IN METERS

EROSION PREVENTION AND SEDIMENT CONTROL PLAN 1

PROJECT NAME: BRANDON
PROJECT NUMBER: NH 019-3(496)

FILE NAME: zb008s6-ec.dgn
PROJECT LEADER: C. BEAN
DESIGNED BY: M. HALEY
PLOT DATE: 2/23/2017
DRAWN BY: M. HALEY
CHECKED BY: D. MUNRO
SHEET 194 OF 601

CLD 02-0448 MODEL:1

ISSUED FOR CONSTRUCTION

VAOT Metric

VT STATE PLANE GRID N

PROJECT DEMARCATION FENCE
20+815.0 - 20+821.9 LT
20+815.0 - 20+827.9 RT
20+871.0 - 20+876.4 LT
20+871.0 RT - 40+035.1 RT
20+887.9 - 20+901.9 LT
20+906.3 - 20+914.5 LT
20+915.5 - 20+921.2 LT
20+925.6 - 20+927.9 LT
20+929.2 - 20+945.5 LT
20+948.2 - 20+950.0 LT
40+034.0 LT - 20+950.0 RT
40+036.3 - 40+043.8 LT
40+040.8 - 40+047.4 RT
40+046.0 - 40+051.0 LT
40+049.3 - 40+066.5 RT
40+052.8 - 40+060.6 LT

TEMPORARY EROSION MATTING
20+935.0 - 20+950.0 RT

INLET PROTECTION DEVICE, TYPE I
20+820.0 RT 40+007.6 LT
20+850.0 RT 40+015.0 RT
20+850.0 LT 40+028.0 RT
20+878.0 LT 40+050.0 RT
20+878.3 RT 40+065.0 RT
20+905.0 RT 40+065.0 LT
20+940.0 RT

SOIL INFORMATION: FARMINGTON-GALWAY-GALOO COMPLEX,
5 TO 25 PERCENT SLOPES, VERY ROCKY
K = 0.32, POTENTIALLY HIGHLY ERODIBLE
HYDROLOGIC SOIL GROUP: D

SOIL INFORMATION: DEERFIELD LOAMY SAND,
0 TO 4 PERCENT SLOPES
K = 0.17, NOT HIGHLY ERODIBLE
HYDROLOGIC SOIL GROUP: B

RURAL AREA SEED MIX AND SLOPE REPLANTING AREA SEE LANDSCAPE PLAN

DRAINAGE AREA 1

DRAINAGE AREA 2

BM #3
TOP OF SE SIGN BASE BOLT
ELEV. = 142.979 m

SOIL INFORMATION: DEERFIELD LOAMY SAND,
0 TO 4 PERCENT SLOPES
K = 0.17, NOT HIGHLY ERODIBLE
HYDROLOGIC SOIL GROUP: B

40 + 070.000
LIMIT OF WORK

MATCH LINE 20+815

MATCH LINE 20+950

0 10 20 30
SCALE IN METERS

NOTE
SEE CROSS SECTIONS FOR FINISHED GRADING

EROSION PREVENTION AND SEDIMENT CONTROL PLAN 2

PROJECT NAME: BRANDON
PROJECT NUMBER: NH 019-3(496)

FILE NAME: zb008s6-ec.dgn
PROJECT LEADER: C. BEAN
DESIGNED BY: M. HALEY
PLOT DATE: 2/23/2017
DRAWN BY: M. HALEY
CHECKED BY: D. MUNRO
SHEET 195 OF 601

CLD 02-0448 MODEL: 2

ISSUED FOR CONSTRUCTION

VAOT Metric

PROJECT DEMARCATION FENCE
20+950.0 - 20+952.0 LT
20+950.0 - 20+989.4 RT
20+957.3 - 20+987.0 LT
20+994.8 - 21+034.8 RT
21+002.6 - 21+021.6 LT
21+036.2 - 21+045.3 LT
21+040.2 - 21+070.0 RT
21+049.8 - 21+070.0 LT

TEMPORARY EROSION MATTING
20+950.0 - 20+985.0 RT
20+970.0 - 20+997.6 LT
21+019.5 - 21+044.7 LT
21+045.0 - 21+070.0 RT

GEOTEXTILE FOR SILT FENCE
20+974.4 - 20+975.5 LT
20+979.6 - 20+981.0 LT
20+983.6 - 20+985.3 LT

GEOTEXTILE FOR SILT FENCE, WOVEN WIRE REINFORCED
21+016.9 - 21+023.8 LT
21+065.0 - 21+070.0 RT

INLET PROTECTION DEVICE, TYPE I
20+980.0 RT
20+980.0 LT
21+000.0 RT
21+014.5 LT (PIPE)
21+020.0 RT
21+043.0 RT
21+043.0 LT
21+048.5 LT
21+048.5 RT
21+070.0 LT
21+070.0 RT (PIPE)

FILTER BAG
21+020.0 LT

VT STATE PLANE GRID

STA 21+030.8 LT - 21+042.9 LT
STORMWATER TREATMENT STRUCTURE #1
DISCHARGE PERMIT #4164 - INDS

SOIL INFORMATION: DEERFIELD LOAMY SAND,
0 TO 4 PERCENT SLOPES
K = 0.17, NOT HIGHLY ERODIBLE
HYDROLOGIC SOIL GROUP: B

RURAL AREA SEED MIX

DRAINAGE AREA 2

STORMWATER TREATMENT STRUCTURE #1

MATCH LINE 20+950

MATCH LINE 21+070

20+960 20+980 21+000 21+020 US 7 21+040 21+060

SOIL INFORMATION: DEERFIELD LOAMY SAND,
0 TO 4 PERCENT SLOPES
K = 0.17, NOT HIGHLY ERODIBLE
HYDROLOGIC SOIL GROUP: B

NOTE
SEE CROSS SECTIONS FOR FINISHED GRADING

0 10 20 30
SCALE IN METERS

EROSION PREVENTION AND SEDIMENT CONTROL PLAN 3

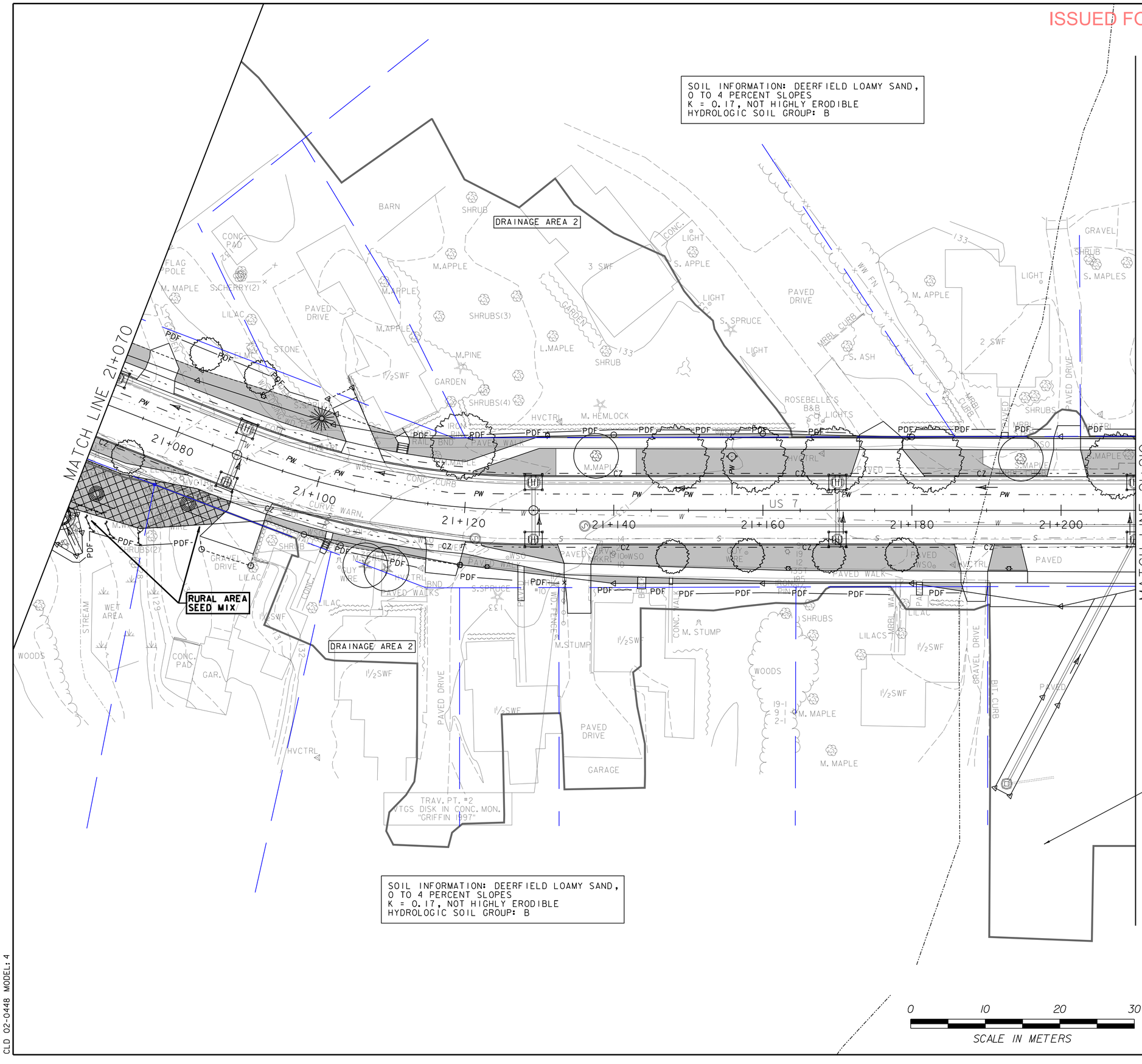
PROJECT NAME: BRANDON
PROJECT NUMBER: NH 019-3(496)

FILE NAME: zb008s6-ec.dgn
PROJECT LEADER: C. BEAN
DESIGNED BY: M. HALEY
PLOT DATE: 2/23/2017
DRAWN BY: M. HALEY
CHECKED BY: D. MUNRO
SHEET 196 OF 601

CLD 02-0448 MODEL: 3

ISSUED FOR CONSTRUCTION

VAOT Metric



SOIL INFORMATION: WINDSOR LOAMY SAND,
3 TO 8 PERCENT SLOPES
K = 0.17, NOT HIGHLY ERODIBLE
HYDROLOGIC SOIL GROUP: A

PROJECT DEMARCATION FENCE
21+070.0 - 21+087.2 RT
21+073.6 - 21+097.3 LT
21+104.1 - 21+114.7 RT
21+111.4 - 21+171.1 LT
21+120.0 - 21+126.6 RT
21+128.7 - 21+132.7 RT
21+137.7 - 21+142.4 RT
21+144.7 - 21+147.4 RT
21+148.6 - 21+177.1 RT
21+178.0 - 21+191.2 LT
21+182.1 - 21+186.4 RT
21+193.7 - 21+198.7 LT
21+203.5 - 21+210.0 LT

TEMPORARY EROSION MATTING
21+070.0 - 21+090.0 RT

GEOTEXTILE FOR SILT FENCE, WOVEN WIRE REINFORCED
21+070.0 - 21+075.0 RT
21+072.7 - 21+074.4 RT
21+075.5 - 21+077.1 RT
21+080.0 - 21+080.9 RT

INLET PROTECTION DEVICE, TYPE I
21+088.5 RT
21+088.5 LT
21+129.2 RT
21+129.2 LT
21+170.0 RT
21+170.0 LT
21+210.0 RT
21+210.0 LT

NOTE
SEE CROSS SECTIONS FOR FINISHED GRADING

0 10 20 30
SCALE IN METERS

EROSION PREVENTION AND SEDIMENT CONTROL PLAN 4

PROJECT NAME: BRANDON
PROJECT NUMBER: NH 019-3(496)

FILE NAME: zb008s6-ec.dgn
PROJECT LEADER: C. BEAN
DESIGNED BY: M. HALEY
PLOT DATE: 2/23/2017
DRAWN BY: M. HALEY
CHECKED BY: D. MUNRO
SHEET 197 OF 601

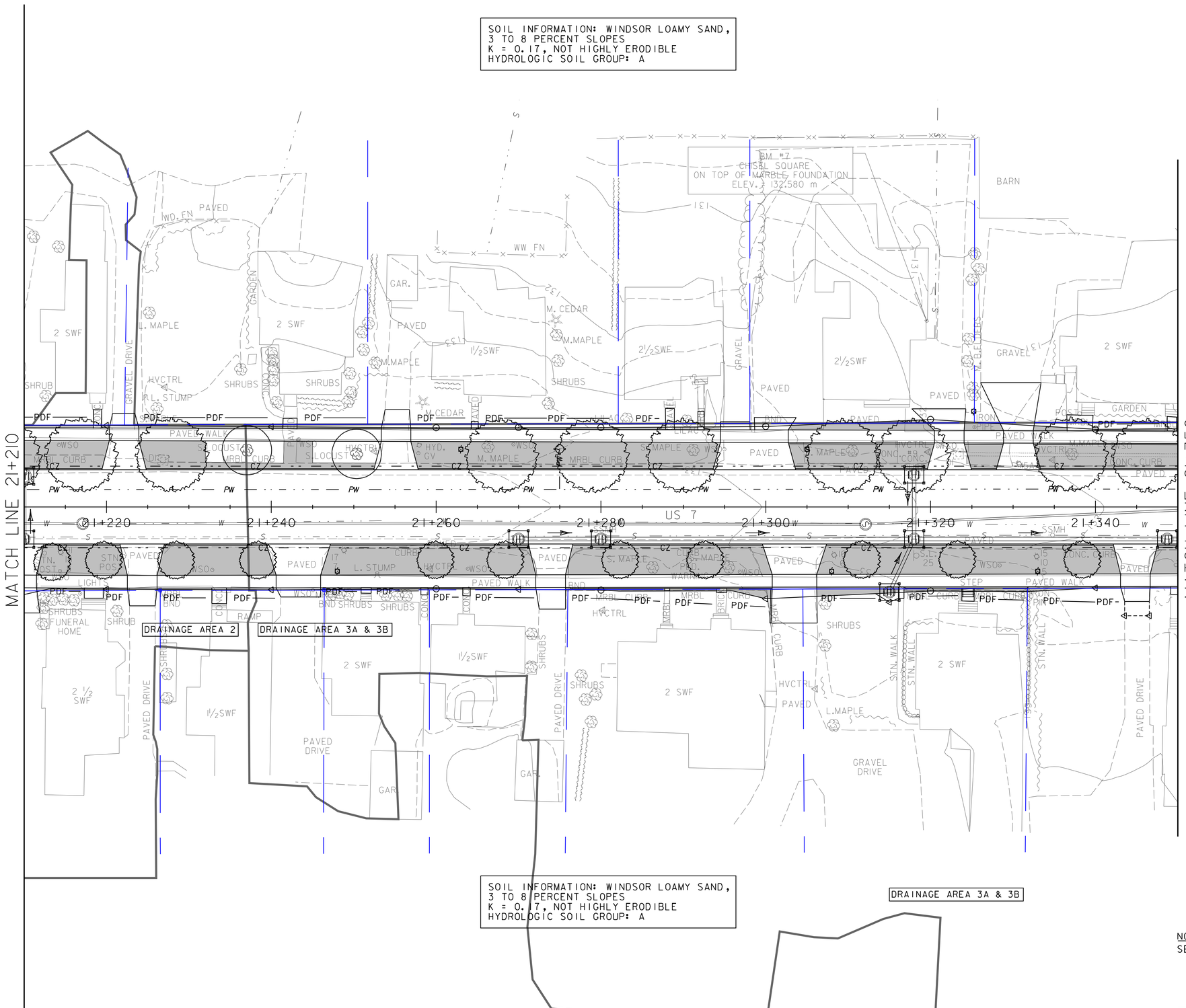
CLD 02-0448 MODEL: 4

ISSUED FOR CONSTRUCTION

VAOT Metric

SOIL INFORMATION: WINDSOR LOAMY SAND,
3 TO 8 PERCENT SLOPES
K = 0.17, NOT HIGHLY ERODIBLE
HYDROLOGIC SOIL GROUP: A

VT STATE PLANE GRID
N



PROJECT DEMARCATION FENCE

21+210.0 - 21+217.6 LT
21+213.0 - 21+216.8 RT
21+219.8 - 21+222.2 RT
21+224.4 - 21+240.7 LT
21+226.8 - 21+232.0 RT
21+235.3 - 21+240.4 RT
21+243.9 - 21+252.9 LT
21+246.5 - 21+250.4 RT
21+252.6 - 21+257.9 RT
21+257.6 - 21+263.5 LT
21+259.5 - 21+262.7 RT
21+264.6 - 21+271.9 RT
21+265.9 - 21+281.9 LT
21+276.3 - 21+287.2 RT
21+284.1 - 21+287.1 LT
21+288.9 - 21+293.5 RT
21+295.7 - 21+299.9 RT
21+306.6 - 21+313.3 RT
21+317.3 - 21+323.3 RT
21+325.8 - 21+331.3 RT
21+333.5 - 21+342.8 RT
21+340.2 - 21+348.2 LT

INLET PROTECTION DEVICE, TYPE I

21+270.0 RT
21+280.0 RT
21+315.0 RT
21+318.0 RT
21+318.0 LT
21+348.7 RT

NOTE
SEE CROSS SECTIONS FOR FINISHED GRADING

0 10 20 30
SCALE IN METERS

EROSION PREVENTION AND SEDIMENT CONTROL PLAN 5

PROJECT NAME: BRANDON
PROJECT NUMBER: NH 019-3(496)

FILE NAME: zb0085s6-ec.dgn
PROJECT LEADER: C. BEAN
DESIGNED BY: M. HALEY
PLOT DATE: 2/23/2017
DRAWN BY: M. HALEY
CHECKED BY: D. MUNRO
SHEET 198 OF 601

CLD 02-0448 MODEL: 5

ISSUED FOR CONSTRUCTION

VAOT Metric

SOIL INFORMATION: WINDSOR LOAMY SAND, 3 TO 8 PERCENT SLOPES
K = 0.17, NOT HIGHLY ERODIBLE
HYDROLOGIC SOIL GROUP: A

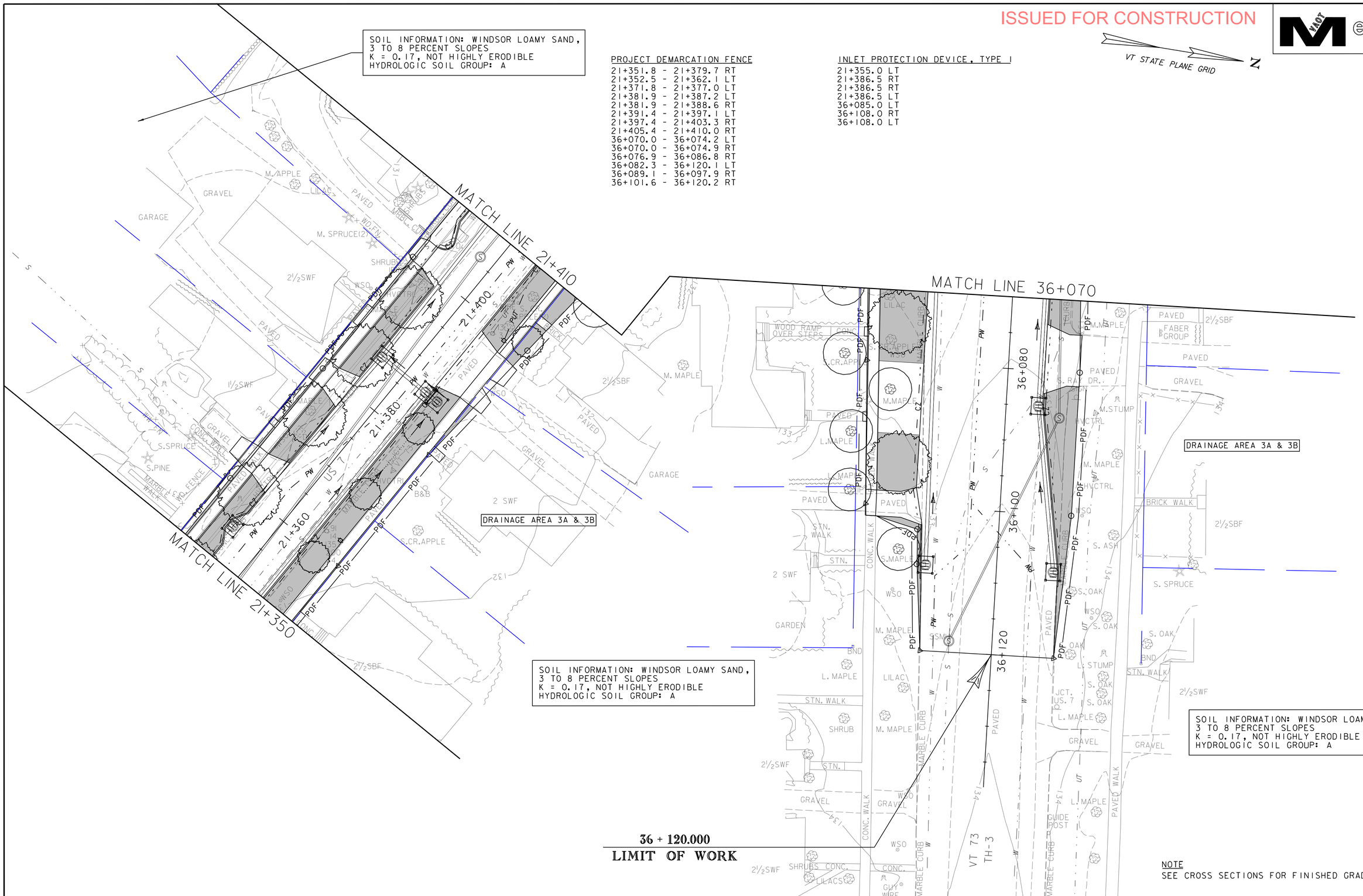
PROJECT DEMARCATION FENCE

21+351.8 - 21+379.7 RT
21+352.5 - 21+362.1 LT
21+371.8 - 21+377.0 LT
21+381.9 - 21+387.2 LT
21+381.9 - 21+388.6 RT
21+391.4 - 21+397.1 LT
21+397.4 - 21+403.3 RT
21+405.4 - 21+410.0 RT
36+070.0 - 36+074.2 LT
36+070.0 - 36+074.9 RT
36+076.9 - 36+086.8 RT
36+082.3 - 36+120.1 LT
36+089.1 - 36+097.9 RT
36+101.6 - 36+120.2 RT

INLET PROTECTION DEVICE, TYPE I

21+355.0 LT
21+386.5 RT
21+386.5 RT
21+386.5 LT
36+085.0 LT
36+108.0 RT
36+108.0 LT

VT STATE PLANE GRID N



SOIL INFORMATION: WINDSOR LOAMY SAND, 3 TO 8 PERCENT SLOPES
K = 0.17, NOT HIGHLY ERODIBLE
HYDROLOGIC SOIL GROUP: A

SOIL INFORMATION: WINDSOR LOAMY SAND, 3 TO 8 PERCENT SLOPES
K = 0.17, NOT HIGHLY ERODIBLE
HYDROLOGIC SOIL GROUP: A

36 + 120.000
LIMIT OF WORK

NOTE
SEE CROSS SECTIONS FOR FINISHED GRADING

0 10 20 30
SCALE IN METERS

EROSION PREVENTION AND SEDIMENT CONTROL PLAN 6

PROJECT NAME: BRANDON
PROJECT NUMBER: NH 019-3(496)

FILE NAME: zb008s6-ec.dgn
PROJECT LEADER: C. BEAN
DESIGNED BY: M. HALEY
PLOT DATE: 2/23/2017
DRAWN BY: M. HALEY
CHECKED BY: D. MUNRO
SHEET 199 OF 601

CLD 02-0448 MODEL:6

ISSUED FOR CONSTRUCTION

VAOT Metric

VT STATE PLANE GRID

SOIL INFORMATION: WINDSOR LOAMY SAND, 3 TO 8 PERCENT SLOPES K = 0.17, NOT HIGHLY ERODIBLE HYDROLOGIC SOIL GROUP: A

DRAINAGE AREA 3A & 3B

PROJECT DEMARCATION FENCE

21+410.0 - 21+434.9 RT
21+436.8 - 21+444.9 RT
21+448.0 - 21+451.6 LT
21+458.5 - 21+474.7 LT
21+482.5 - 21+487.4 LT
21+491.3 - 21+499.8 LT
30+015.1 - 30+017.2 RT
30+019.5 - 30+022.0 RT
30+023.8 - 30+026.3 RT
30+030.3 - 30+034.4 RT
30+036.5 - 30+046.3 RT
30+051.4 - 30+058.0 RT
36+028.6 - 36+061.6 RT
36+041.9 - 36+070.0 LT
36+063.8 - 36+070.0 RT

INLET PROTECTION DEVICE, TYPE I

21+426.4 RT
21+426.4 LT
21+452.0 RT
21+452.0 LT
21+457.3 RT
21+464.7 RT
21+487.3 LT
21+489.8 RT
30+050.0 LT
30+053.0 RT
36+025.0 LT
36+040.0 LT
36+065.0 RT
36+065.0 RT
36+065.0 LT

TEMPORARY STONE CHECK DAM, TYPE I

36+023.6 - 36+045.0 RT

NOTE
SEE CROSS SECTIONS FOR FINISHED GRADING

0 10 20 30
SCALE IN METERS

EROSION PREVENTION AND SEDIMENT CONTROL PLAN 7

PROJECT NAME: BRANDON
PROJECT NUMBER: NH 019-3(496)

FILE NAME: zb008s6-ec.dgn
PROJECT LEADER: C. BEAN
DESIGNED BY: M. HALEY
PLOT DATE: 2/23/2017
DRAWN BY: M. HALEY
CHECKED BY: D. MUNRO
SHEET 200 OF 601

CLD 02-0448 MODEL: 7

ISSUED FOR CONSTRUCTION

VT STATE PLANE GRID

VAOT Metric

SOIL INFORMATION: WINDSOR LOAMY SAND,
3 TO 8 PERCENT SLOPES
K = 0.17, NOT HIGHLY ERODIBLE
HYDROLOGIC SOIL GROUP: A

PROJECT DEMARCATION FENCE

21+511.6	21+519.9 LT
21+531.7	21+545.7 LT
21+547.3	34+049.0 LT
21+609.8	21+615.0 LT
30+058.0	30+064.4 RT
30+067.0	30+087.8 RT
30+091.0	30+104.9 RT
34+021.0	34+038.6 RT
34+045.0	34+065.8 RT
34+067.3	34+080.0 LT
34+071.0	34+075.4 RT
35+023.0	35+037.2 LT
35+040.5	35+048.9 LT
35+056.3	35+069.7 LT
35+062.3	35+089.1 RT
35+076.9	35+079.7 LT

INLET PROTECTION DEVICE, TYPE I

21+515.0 LT
21+529.0 RT
21+543.0 LT
21+554.0 LT
21+554.4 RT
21+572.4 LT
21+576.5 RT
21+606.5 RT
21+606.5 LT
30+062.7 LT
30+075.0 RT
30+080.0 LT
30+120.7 LT
35+037.8 RT
35+037.8 RT
35+037.8 LT

BM #6 (STA 21+600.3 RT)
USC & GS STANDARD DISC
IN CONC MONUMENT
STAMPED BRANDON 1955
ELEV. = 131.180 m

DRAINAGE AREA 3A & 3B

MATCH LINE 21+615

MATCH LINE 30+149

35 + 066.000
LIMIT OF WORK

SOIL INFORMATION: WINDSOR LOAMY SAND,
3 TO 8 PERCENT SLOPES
K = 0.17, NOT HIGHLY ERODIBLE
HYDROLOGIC SOIL GROUP: A

DRAINAGE AREA 3A & 3B

SEE PLAN 8B

MATCH LINE 21+510

MATCH LINE 30+058

DRAINAGE AREA 3A & 3B

SOIL INFORMATION: WINDSOR LOAMY SAND,
3 TO 8 PERCENT SLOPES
K = 0.17, NOT HIGHLY ERODIBLE
HYDROLOGIC SOIL GROUP: A

NOTE
SEE CROSS SECTIONS FOR FINISHED GRADING

0 10 20 30
SCALE IN METERS

EROSION PREVENTION AND SEDIMENT CONTROL PLAN 8

PROJECT NAME: BRANDON
PROJECT NUMBER: NH 019-3(496)

FILE NAME: zb008s6-ec.dgn
PROJECT LEADER: C. BEAN
DESIGNED BY: M. HALEY
PLOT DATE: 2/23/2017
DRAWN BY: M. HALEY
CHECKED BY: D. MUNRO
SHEET 201 OF 601

CLD 02-0448 MODEL: 8

ISSUED FOR CONSTRUCTION

VAOT Metric

37 + 070.000
LIMIT OF WORK

34 + 210.000
LIMIT OF WORK

PROJECT DEMARCATION FENCE
34+080.0 - 34+119.4 RT
34+080.0 - 34+085.0 LT
34+125.7 - 34+146.9 RT
34+152.5 - 34+195.5 RT
37+009.1 - 37+022.2 RT
37+010.0 - 37+032.8 LT
37+025.8 - 37+056.0 RT
37+037.0 - 37+050.0 LT
37+054.1 - 37+070.0 LT
37+059.8 - 37+076.2 RT

INLET PROTECTION DEVICE, TYPE I
34+083.0 RT
34+083.0 LT
34+194.1 RT
34+207.0 RT
37+067.5 LT
37+067.5 RT

VT STATE PLANE GRID
N

SOIL INFORMATION: ELMRIDGE SANDY LOAM,
0 TO 3 PERCENT SLOPES
K = 0.24, NOT HIGHLY ERODIBLE
HYDROLOGIC SOIL GROUP: C

SOIL INFORMATION: WINDSOR LOAMY SAND,
3 TO 8 PERCENT SLOPES
K = 0.17, NOT HIGHLY ERODIBLE
HYDROLOGIC SOIL GROUP: A

STORMWATER TREATMENT
STRUCTURE #4

STA 37+023.1 RT - 37+036.8 RT
STORMWATER TREATMENT STRUCTURE #4
DISCHARGE PERMIT #4164 - INDS

DRAINAGE AREA 3A & 3B

ROSSITER ST
CARVER ST
TH-42
APPROX. EXIST. ROW
SEE PLAN 8

NOTE
SEE CROSS SECTIONS FOR FINISHED GRADING

0 10 20 30
SCALE IN METERS

EROSION PREVENTION AND SEDIMENT CONTROL PLAN 8B

PROJECT NAME: BRANDON
PROJECT NUMBER: NH 019-3(496)

FILE NAME: zb008s6-ec.dgn
PROJECT LEADER: C. BEAN
DESIGNED BY: M. HALEY
PLOT DATE: 2/23/2017
DRAWN BY: M. HALEY
CHECKED BY: D. MUNRO
SHEET 202 OF 601

CLD 02-0448 MODEL: 8B

ISSUED FOR CONSTRUCTION

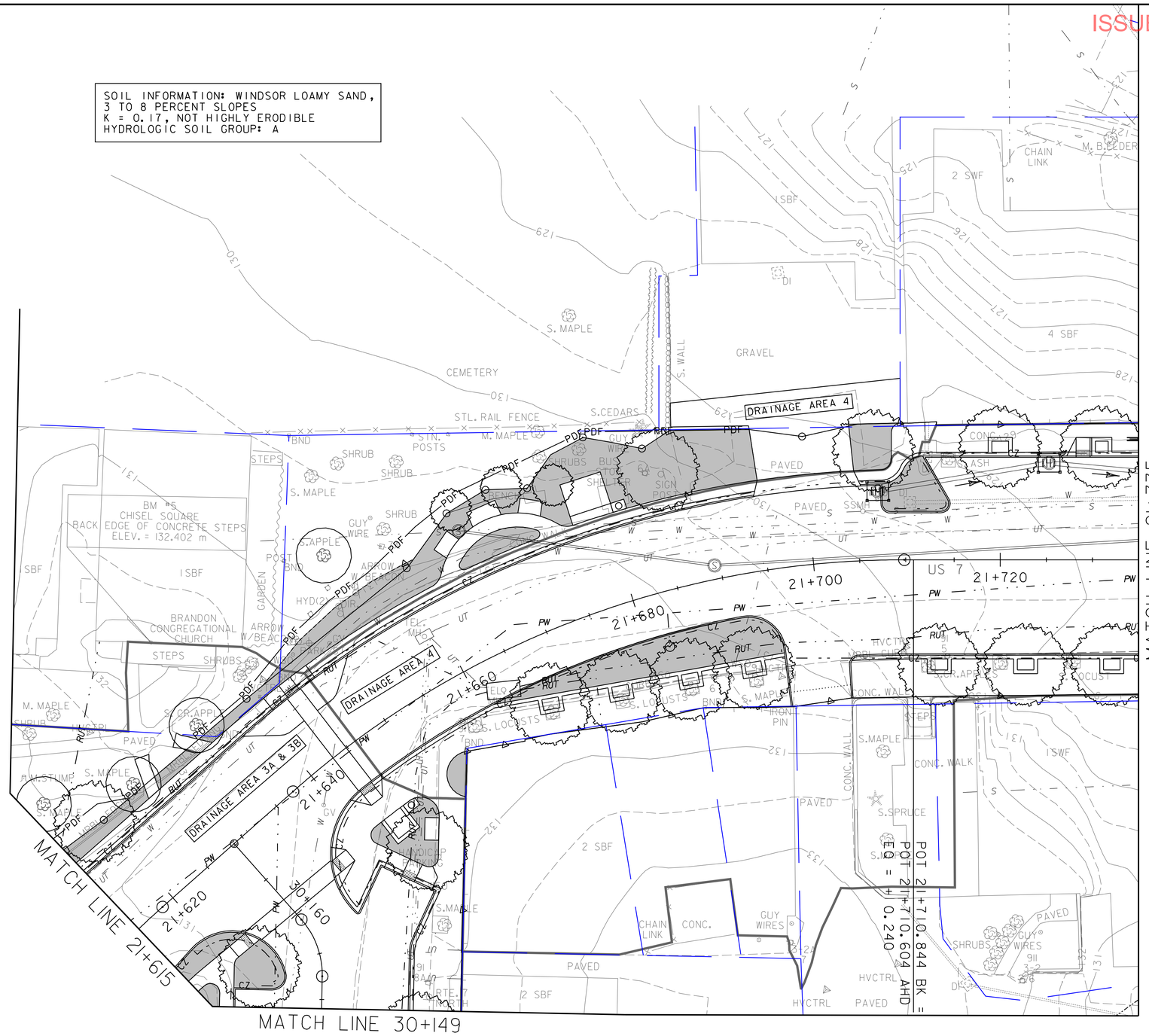
VAOT Metric

SOIL INFORMATION: WINDSOR LOAMY SAND, 3 TO 8 PERCENT SLOPES
K = 0.17, NOT HIGHLY ERODIBLE
HYDROLOGIC SOIL GROUP: A

VT STATE PLANE GRID N

PROJECT DEMARCATION FENCE
21+615.0 - 21+625.8 LT
21+632.8 - 21+694.7 LT

INLET PROTECTION DEVICE, TYPE I
21+707.2 LT
21+725.3 LT



NOTE
SEE CROSS SECTIONS FOR FINISHED GRADING

EROSION PREVENTION AND SEDIMENT CONTROL PLAN 9

PROJECT NAME:	BRANDON
PROJECT NUMBER:	NH 019-3(496)

FILE NAME: zb008s6-ec.dgn	PLOT DATE: 2/23/2017
PROJECT LEADER: C. BEAN	DRAWN BY: M. HALEY
DESIGNED BY: M. HALEY	CHECKED BY: D. MUNRO
	SHEET 203 OF 601

0 10 20 30
SCALE IN METERS

CLD 02-0448 MODEL: 9

ISSUED FOR CONSTRUCTION

VT STATE PLANE GRID N

VAOT Metric

SOIL INFORMATION: WINDSOR LOAMY SAND,
3 TO 8 PERCENT SLOPES
K = 0.17, NOT HIGHLY ERODIBLE
HYDROLOGIC SOIL GROUP: A

MATCH LINE 21+735

MATCH LINE 21+870

BM #4
CHISEL SQUARE
TOP OF CONC. WALL
ELEV. = 125.526

BOLLARDS

BUILDING

GUY WIRE

CONC. WALL

DMH

HVCTRL

GAZEBO

STN. WALL

STN. BENCH

GRAVEL

GRAVEL PATH

NESHOBE RIVER

SBF

WSO

MOBIL

M. MAPLE

SHRUBS

GARDEN

PAVED WALK

CONC. WALK

DRAINAGE AREA 5

DRAINAGE AREA 4

TH-52
MILL LANE

US 7

21+800

21+780

21+760

21+740

21+820

21+840

21+860

9+000

9+020

9+040

9+060

9+080

9+100

WEST SEMINARY STREET
TH-69

PAVED

CURB WARP

S.MAPLE

S.B.ELDER

S.CRABAPPLE

S. LINDEN

LILAC

SHRUB

2 SWF

1 SWF

2 SBF

1 SBF

ACCESS HATCH

STEPS

CONC. ENDN.

NESHOBE FALLS PARK
(4f & 6f)

POST

BUILDING OVER RIVER

ROOF DRAIN

SWR CLEANOUT

BUILDING

M. OAK

S. BALSAM

L. STUMP

BLDG.

MRBL CURB

MRBL STEPS

CONC. STEPS

BND

GUY WIRE

HYD

PUSH POLE

GV

WATER

DRAIN CURB

PROJECT DEMARCATION FENCE

21+776.3 - 21+812.6 LT
21+819.7 - 9+029.2 RT
9+012.3 - 9+033.2 LT
9+056.2 - 9+092.1 RT

INLET PROTECTION DEVICE, TYPE I

21+755.6 LT	9+014.0 LT
21+756.7 RT	9+021.7 RT
21+783.2 LT	9+022.0 LT
21+800.0 LT	9+035.0 LT
21+805.0 RT	9+042.3 RT
21+848.8 RT	9+048.7 LT
21+865.0 RT	9+060.0 LT

SOIL INFORMATION: WINDSOR LOAMY SAND,
8 TO 15 PERCENT SLOPES
K = 0.17, POTENTIALLY HIGHLY ERODIBLE
HYDROLOGIC SOIL GROUP: A

SOIL INFORMATION: WINDSOR LOAMY SAND,
3 TO 8 PERCENT SLOPES
K = 0.17, NOT HIGHLY ERODIBLE
HYDROLOGIC SOIL GROUP: A

SOIL INFORMATION: WINDSOR LOAMY SAND,
3 TO 8 PERCENT SLOPES
K = 0.17, NOT HIGHLY ERODIBLE
HYDROLOGIC SOIL GROUP: A

9 + 090.000
LIMIT OF WORK

NOTE
SEE CROSS SECTIONS FOR FINISHED GRADING

0 10 20 30
SCALE IN METERS

EROSION PREVENTION AND SEDIMENT CONTROL PLAN 10

PROJECT NAME: BRANDON
PROJECT NUMBER: NH 019-3(496)

FILE NAME: zb0088s6-ec.dgn
PROJECT LEADER: C. BEAN
DESIGNED BY: M. HALEY
PLOT DATE: 2/23/2017
DRAWN BY: M. HALEY
CHECKED BY: D. MUNRO
SHEET 204 OF 601

CLD 02-0448 MODEL:10

ISSUED FOR CONSTRUCTION

VAOT Metric

STA 21+876.1 LT - 21+884.4 LT
STORMWATER TREATMENT STRUCTURE #2
DISCHARGE PERMIT #4164 - INDS

SOIL INFORMATION: FARMINGTON-GALWAY-GALOO COMPLEX,
5 TO 25 PERCENT SLOPES, VERY ROCKY
K = 0.32, POTENTIALLY HIGHLY ERODIBLE
HYDROLOGIC SOIL GROUP: D

SLOPE REPLANTING AREA
SEE LANDSCAPE PLAN

STORMWATER TREATMENT STRUCTURE #2

DRAINAGE AREA 5

DRAINAGE AREA 5

MATCH LINE 21+870

MATCH LINE 21+995

US 7

BRIGGS LANE TH #54

PROSPECT ST

8+020

8+040

8+060

8 + 060.000
LIMIT OF WORK

SEE PLAN IIA

SOIL INFORMATION: WINDSOR LOAMY SAND,
8 TO 15 PERCENT SLOPES
K = 0.17, POTENTIALLY HIGHLY ERODIBLE
HYDROLOGIC SOIL GROUP: A

SOIL INFORMATION: FARMINGTON-GALWAY-GALOO COMPLEX,
5 TO 25 PERCENT SLOPES, VERY ROCKY
K = 0.32, POTENTIALLY HIGHLY ERODIBLE
HYDROLOGIC SOIL GROUP: D

SOIL INFORMATION: STOCKBRIDGE GRAVELLY SILT LOAM,
15 TO 25 PERCENT SLOPES
K = 0.24, HIGHLY ERODIBLE
HYDROLOGIC SOIL GROUP: C

PROJECT DEMARCATION FENCE
21+870.0 - 21+871.5 LT
21+878.9 - 21+885.6 LT
21+893.7 - 21+896.2 LT
21+912.2 - 21+929.1 RT
21+956.4 - 21+967.3 RT
21+969.2 - 21+995.0 RT
21+991.9 - 21+995.0 LT
8+015.7 - 8+026.5 LT
8+028.6 - 8+051.9 LT

TEMPORARY EROSION MATTING
21+881.0 - 21+893.9 LT

TEMPORARY STONE CHECK DAM, TYPE I
21+967.0 - 21+995.0 LT

INLET PROTECTION DEVICE, TYPE I
21+873.0 LT
21+892.5 LT (PIPE)
21+895.4 RT
21+895.4 LT
21+902.0 RT
21+907.0 LT
21+934.0 RT
21+946.0 RT
21+960.5 LT
21+962.8 RT
8+013.3 RT
8+040.0 LT
8+050.0 LT

VT STATE PLANE GRID
N

NOTE
SEE CROSS SECTIONS FOR FINISHED GRADING

0 10 20 30
SCALE IN METERS

EROSION PREVENTION AND SEDIMENT CONTROL PLAN II

PROJECT NAME: BRANDON
PROJECT NUMBER: NH 019-3(496)

FILE NAME: zb008s6-ec.dgn
PROJECT LEADER: C. BEAN
DESIGNED BY: M. HALEY
PLOT DATE: 2/23/2017
DRAWN BY: M. HALEY
CHECKED BY: D. MUNRO
SHEET 205 OF 601

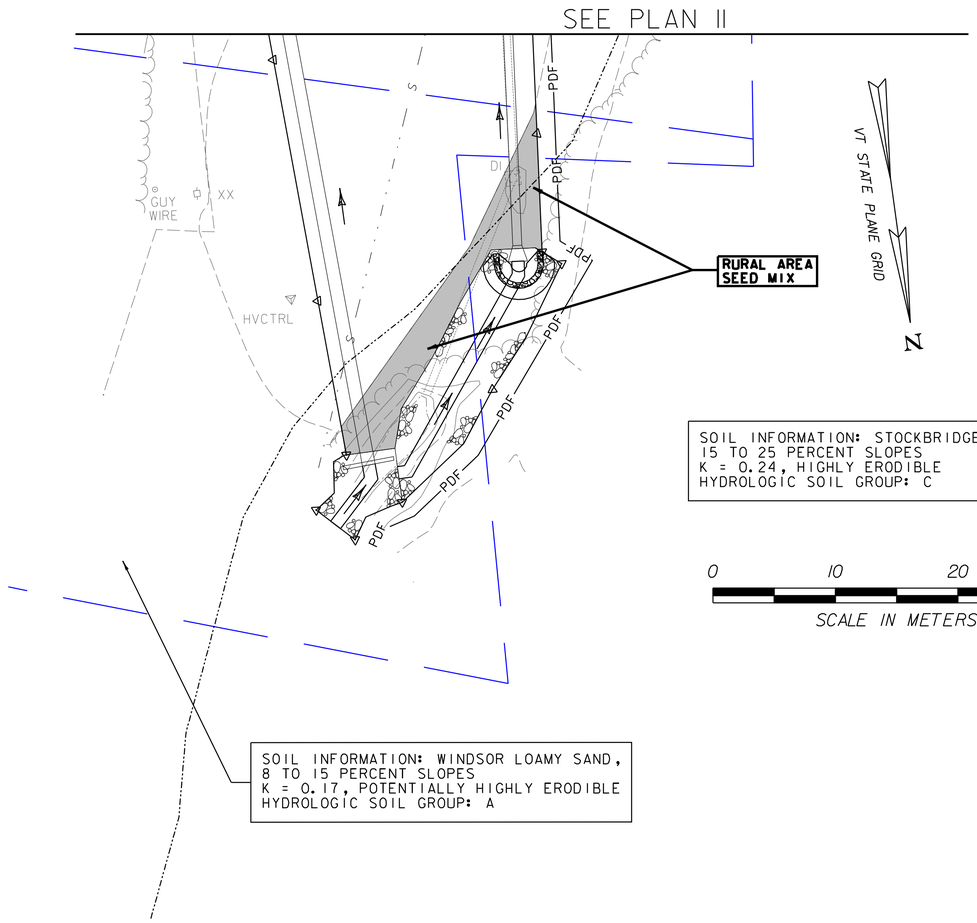
CLD 02-0448 MODEL: II

ISSUED FOR CONSTRUCTION

Metric

PROJECT DEMARCATION FENCE
21+884.3 - 21+898.9 RT

INLET PROTECTION DEVICE, TYPE I
21+896.2 RT (PIPE)



NOTE
SEE CROSS SECTIONS FOR FINISHED GRADING

EROSION PREVENTION AND SEDIMENT CONTROL PLAN IIA

PROJECT NAME: BRANDON
PROJECT NUMBER: NH 019-3(496)

FILE NAME: zb008s6-ec.dgn
PROJECT LEADER: C. BEAN
DESIGNED BY: M. HALEY
PLOT DATE: 2/23/2017
DRAWN BY: M. HALEY
CHECKED BY: D. MUNRO
SHEET 206 OF 601

CLD 02-0448 MODEL: IIA

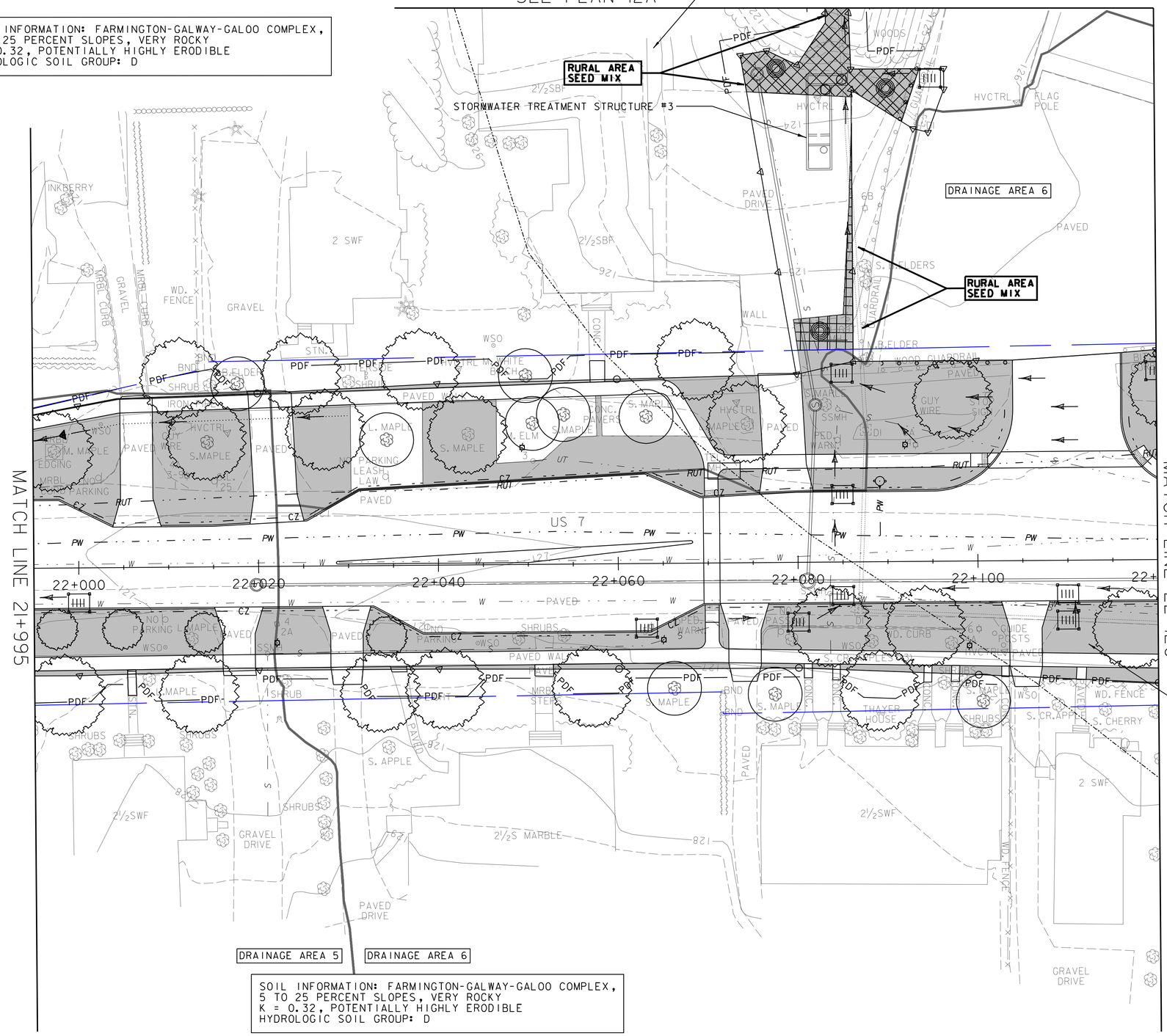
ISSUED FOR CONSTRUCTION

VAOT Metric

STA 22+081.3 LT - 22+085.9 LT
STORMWATER TREATMENT STRUCTURE #3
DISCHARGE PERMIT #4164 - INDS

SOIL INFORMATION: WINDSOR LOAMY SAND,
3 TO 8 PERCENT SLOPES
K = 0.17, NOT HIGHLY ERODIBLE
HYDROLOGIC SOIL GROUP: A

SOIL INFORMATION: FARMINGTON-GALWAY-GALOO COMPLEX,
5 TO 25 PERCENT SLOPES, VERY ROCKY
K = 0.32, POTENTIALLY HIGHLY ERODIBLE
HYDROLOGIC SOIL GROUP: D



SOIL INFORMATION: WINDSOR LOAMY SAND,
3 TO 8 PERCENT SLOPES
K = 0.17, NOT HIGHLY ERODIBLE
HYDROLOGIC SOIL GROUP: A

VT STATE PLANE GRID
N

PROJECT DEMARCATION FENCE
21+995.0 - 22+004.4 LT
21+995.0 - 22+004.9 RT
22+006.8 - 22+015.5 RT
22+008.2 - 22+018.1 LT
22+020.2 - 22+027.6 RT
22+023.5 - 22+056.5 LT
22+031.4 - 22+050.2 RT
22+053.2 - 22+072.0 RT
22+059.2 - 22+074.3 LT
22+072.7 - 22+081.5 LT
22+075.9 - 22+080.1 RT
22+084.6 - 22+093.9 RT
22+088.1 - 22+094.3 LT
22+098.3 - 22+102.0 RT
22+106.9 - 22+110.3 RT
22+112.4 - 22+120.0 RT

TEMPORARY EROSION MATTING
22+074.0 - 22+093.3 LT
22+079.7 - 22+086.3 LT

INLET PROTECTION DEVICE, TYPE I
22+000.0 RT
22+063.1 RT
22+080.0 RT
22+085.0 LT
22+085.0 LT
22+085.0 RT
22+095.0 LT
22+110.0 RT
22+110.0 RT
22+120.0 LT

TEMPORARY STONE CHECK DAM, TYPE I
21+995.0 - 22+000.0 LT

NOTE
SEE CROSS SECTIONS FOR FINISHED GRADING

0 10 20 30
SCALE IN METERS

EROSION PREVENTION AND SEDIMENT CONTROL PLAN 12

PROJECT NAME: BRANDON
PROJECT NUMBER: NH 019-3(496)

FILE NAME: zb008s6-ec.dgn
PROJECT LEADER: C. BEAN
DESIGNED BY: M. HALEY
PLOT DATE: 2/23/2017
DRAWN BY: M. HALEY
CHECKED BY: D. MUNRO
SHEET 207 OF 601

CLD 02-0448 MODEL: 12

ISSUED FOR CONSTRUCTION

VAOT Metric

VT STATE PLANE GRID

N

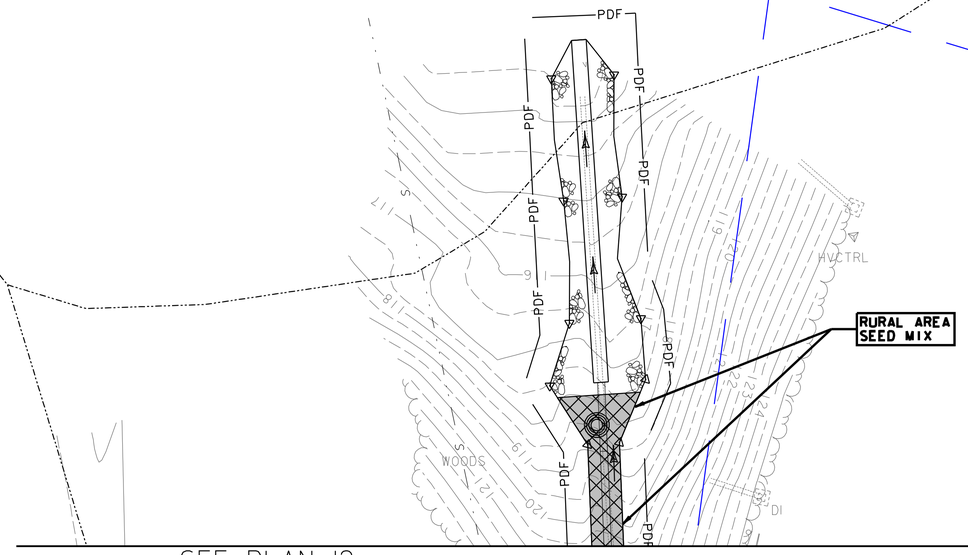
PROJECT DEMARCATION FENCE
22+081.5 -22+088.1 LT

TEMPORARY EROSION MATTING
22+080.7 - 22+087.5 LT

SOIL INFORMATION: UDIFLUVENTS AND FLUVAQUAENTS
K = NOT RATED
HYDROLOGIC SOIL GROUP: NOT RATED

SOIL INFORMATION: WINDSOR LOAMY SAND, 3 TO 8 PERCENT SLOPES
K = 0.17, NOT HIGHLY ERODIBLE
HYDROLOGIC SOIL GROUP: A

SOIL INFORMATION: FARMINGTON-GALWAY-GALOO COMPLEX, 5 TO 25 PERCENT SLOPES, VERY ROCKY
K = 0.32, POTENTIALLY HIGHLY ERODIBLE
HYDROLOGIC SOIL GROUP: D



SEE PLAN 12

NOTE
SEE CROSS SECTIONS FOR FINISHED GRADING

0 10 20 30
SCALE IN METERS

EROSION PREVENTION AND SEDIMENT CONTROL PLAN 12A

PROJECT NAME: BRANDON
PROJECT NUMBER: NH 019-3(496)

FILE NAME: zb008s6-ec.dgn
PROJECT LEADER: C. BEAN
DESIGNED BY: M. HALEY
PLOT DATE: 2/23/2017
DRAWN BY: M. HALEY
CHECKED BY: D. MUNRO
SHEET 208 OF 601

CLD 02-0448 MODEL: I2A

ISSUED FOR CONSTRUCTION

VAOT Metric

VT STATE PLANE GRID

N

SOIL INFORMATION: WINDSOR LOAMY SAND,
3 TO 8 PERCENT SLOPES
K = 0.17, NOT HIGHLY ERODIBLE
HYDROLOGIC SOIL GROUP: A

SOIL INFORMATION: WINDSOR LOAMY SAND,
3 TO 8 PERCENT SLOPES
K = 0.17, NOT HIGHLY ERODIBLE
HYDROLOGIC SOIL GROUP: A

PROJECT DEMARCATION FENCE

22+120.0 - 22+134.9 RT
22+141.5 - 22+157.9 RT
22+194.7 - 22+202.0 RT
22+204.4 - 22+212.3 RT
22+220.6 - 22+228.0 LT
22+230.4 - 22+235.0 LT
18+027.4 - 18+028.3 LT
18+028.8 - 18+030.3 LT
18+030.6 - 18+038.4 LT
18+039.6 - 18+044.4 LT
18+041.5 - 18+054.8 RT
18+046.3 - 18+049.9 LT
18+055.8 - 18+064.6 LT
18+058.7 - 18+065.0 RT
19+053.2 - 19+063.9 RT
19+067.1 - 19+075.8 RT
19+080.3 - 19+085.0 RT

INLET PROTECTION DEVICE, TYPE I

22+145.0 RT
22+145.0 RT
22+180.0 RT
22+204.0 RT
22+230.7 RT
22+230.7 LT
18+010.0 LT
18+012.7 LT
18+022.3 LT
18+026.0 RT
19+023.0 LT
19+065.0 RT
19+065.0 RT
19+065.0 LT
19+077.7 LT

TEMPORARY STONE CHECK DAM, TYPE I

19+050.0 - 19+076.5 LT

NOTE

SEE CROSS SECTIONS FOR FINISHED GRADING

0 10 20 30

SCALE IN METERS

EROSION PREVENTION AND SEDIMENT CONTROL PLAN 13

PROJECT NAME:	BRANDON
PROJECT NUMBER:	NH 019-3(496)

FILE NAME: zb008s6-ec.dgn	PLOT DATE: 2/23/2017
PROJECT LEADER: C. BEAN	DRAWN BY: M. HALEY
DESIGNED BY: M. HALEY	CHECKED BY: D. MUNRO
	SHEET 209 OF 601

CLD 02-0448 MODEL:13

ISSUED FOR CONSTRUCTION

VAOT Metric

PROJECT DEMARCATION FENCE
18+065.0 - 18+078.4 RT
18+066.7 - 18+073.1 LT
18+074.5 - 18+079.6 LT
18+080.9 - 18+103.0 RT
19+085.0 - 19+105.0 RT
19+091.1 - 19+105.0 LT

VT STATE PLANE GRID
N

SOIL INFORMATION: WINDSOR LOAMY SAND, 3 TO 8 PERCENT SLOPES
K = 0.17, NOT HIGHLY ERODIBLE
HYDROLOGIC SOIL GROUP: A

19 + 105.000
LIMIT OF WORK

18 + 103.000
LIMIT OF WORK

SEE PLAN 13

SEE PLAN 3

NOTE
SEE CROSS SECTIONS FOR FINISHED GRADING

0 10 20 30
SCALE IN METERS

EROSION PREVENTION AND SEDIMENT CONTROL PLAN 13A

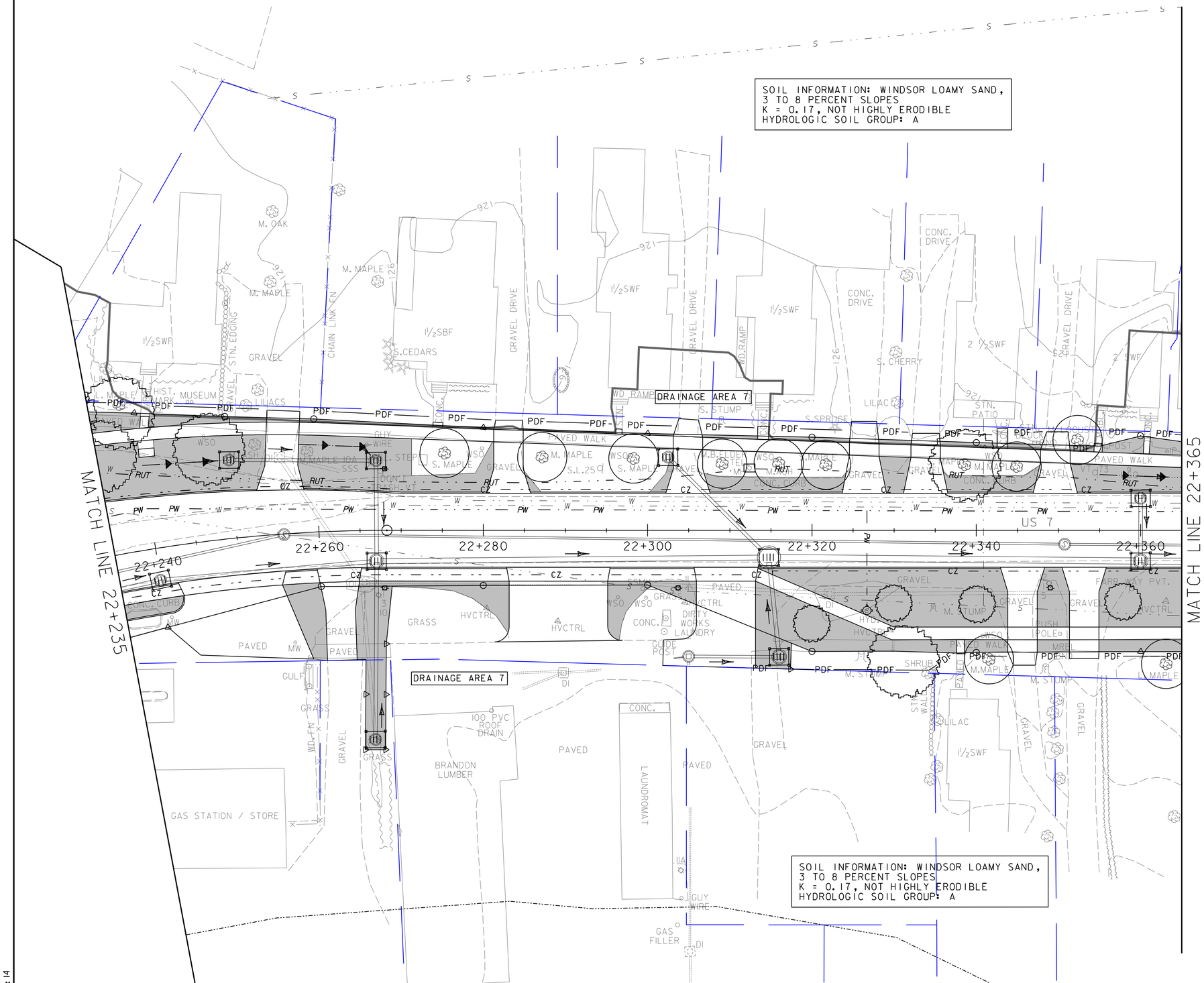
PROJECT NAME: BRANDON
PROJECT NUMBER: NH 019-3(496)

FILE NAME: zb008s6-ec.dgn
PROJECT LEADER: C. BEAN
DESIGNED BY: M. HALEY
PLOT DATE: 2/23/2017
DRAWN BY: M. HALEY
CHECKED BY: D. MUNRO
SHEET 210 OF 601

CLD 02-0448 MODEL: 13A

ISSUED FOR CONSTRUCTION

VAOT Metric



VT STATE PLANE GRID

N

PROJECT DEMARCATION FENCE
22+235.0 - 22+240.5 LT
22+242.3 - 22+253.9 LT
22+259.6 - 22+273.4 LT
22+275.6 - 22+281.0 LT
22+285.3 - 22+295.6 LT
22+297.4 - 22+303.0 LT
22+307.0 - 22+312.9 LT
22+312.6 - 22+337.1 RT
22+316.1 - 22+324.2 LT
22+328.5 - 22+331.7 LT
22+336.0 - 22+341.9 LT
22+339.0 - 22+343.7 RT
22+344.5 - 22+348.1 LT
22+347.8 - 22+350.8 RT
22+351.7 - 22+354.0 LT
22+355.4 - 22+365.0 RT
22+356.0 - 22+360.0 LT
22+361.8 - 22+365.0 LT

TEMPORARY STONE CHECK DAM, TYPE I
22+240.0 TO 22+250.0 LT
22+258.2 TO 22+267.0 LT
22+355.0 TO 22+365.0 LT

INLET PROTECTION DEVICE, TYPE I
22+240.0 RT
22+250.0 LT
22+266.7 RT
22+267.0 RT
22+267.0 LT
22+302.5 LT
22+314.8 RT
22+316.0 RT
22+360.0 RT
22+360.0 LT

NOTE
SEE CROSS SECTIONS FOR FINISHED GRADING

0 10 20 30
SCALE IN METERS

EROSION PREVENTION AND SEDIMENT CONTROL PLAN 14

PROJECT NAME: BRANDON
PROJECT NUMBER: NH 019-3(496)

FILE NAME: zb008s6-ec.dgn
PROJECT LEADER: C. BEAN
DESIGNED BY: M. HALEY
PLOT DATE: 2/23/2017
DRAWN BY: M. HALEY
CHECKED BY: D. MUNRO
SHEET 211 OF 601

CLD 02-0448 MODEL: 14

ISSUED FOR CONSTRUCTION

VAOT Metric

PROJECT DEMARCATION FENCE
22+365.0 - 22+397.8 RT
22+365.0 - 22+367.5 LT
22+370.4 - 22+373.9 LT
22+383.8 - 22+386.9 LT
22+388.8 - 22+395.7 LT
22+400.3 - 22+410.0 LT
22+400.7 - 22+412.5 RT
22+411.7 - 22+419.0 LT
22+414.5 - 22+423.5 RT
22+426.0 - 22+437.3 RT
22+425.1 - 22+436.0 LT
22+440.7 - 22+496.6 LT
22+441.7 - 22+452.5 RT
22+455.0 - 22+478.3 RT
22+479.8 - 22+520.0 RT
22+507.5 - 22+520.0 LT

INLET PROTECTION DEVICE, TYPE I
22+395.0 RT
22+403.0 RT
22+403.0 LT
22+445.0 RT
22+460.0 RT
22+495.0 LT
22+500.0 LT

TEMPORARY EROSION MATTING
22+440.6 - 22+453.0 RT
22+454.6 - 22+520.0 RT
22+511.0 - 22+520.0 RT (DITCH)

TEMPORARY STONE CHECK DAM, TYPE I
22+365.0 - 22+375.0 LT
22+511.0 - 22+520.0 RT

SOIL INFORMATION: WINDSOR LOAMY SAND,
3 TO 8 PERCENT SLOPES
K = 0.17, NOT HIGHLY ERODIBLE
HYDROLOGIC SOIL GROUP: A

VT STATE PLANE GRID N

BM #2 CHS. SQ.
TOP SW COR. CONC. STEPS
EL.= 125.872 m

SOIL INFORMATION:
ENOSBURG LOAMY FINE SAND
K = 0.24, NOT HIGHLY ERODIBLE
HYDROLOGIC SOIL GROUP: C

MATCH LINE 22+365

MATCH LINE 22+520

22+380 22+400 22+420 22+440 22+460 22+480 22+500

US 7

DRAINAGE AREA 7

SOIL INFORMATION: FARMINGTON-GALWAY-GALOO COMPLEX,
5 TO 25 PERCENT SLOPES, VERY ROCKY
K = 0.32, POTENTIALLY HIGHLY ERODIBLE
HYDROLOGIC SOIL GROUP: D

SOIL INFORMATION: FARMINGTON-GALWAY-GALOO COMPLEX,
25 TO 50 PERCENT SLOPES, VERY ROCKY
K = 0.32, HIGHLY ERODIBLE
HYDROLOGIC SOIL GROUP: D

NOTE
SEE CROSS SECTIONS FOR FINISHED GRADING

0 10 20 30
SCALE IN METERS

EROSION PREVENTION AND SEDIMENT CONTROL PLAN 15

PROJECT NAME: BRANDON
PROJECT NUMBER: NH 019-3(496)

FILE NAME: zb008s6-ec.dgn
PROJECT LEADER: C. BEAN
DESIGNED BY: M. HALEY
PLOT DATE: 2/23/2017
DRAWN BY: M. HALEY
CHECKED BY: D. MUNRO
SHEET 212 OF 601

CLD 02-0448 MODEL: I5

ISSUED FOR CONSTRUCTION

VAOT Metric

PROJECT DEMARCATION FENCE
22+520.0 - 22+539.0 LT
22+520.0 - 22+624.5 RT
22+646.8 - 22+679.0 RT

GEOTEXTILE FOR SILT FENCE, WOVEN WIRE REINFORCED
22+626.8 - 22+637.1 LT
22+636.4 - 22+651.7 LT
22+650.2 - 22+662.1 LT

BARRIER FENCE
22+625.5 - 22+668.1 LT

TEMPORARY EROSION MATTING
22+520.0 - 22+530.0 RT
22+520.0 - 22+609.0 RT (DITCH)
22+605.0 - 22+620.0 RT
22+626.6 - 22+667.6 LT
22+640.0 - 22+652.0 LT (DITCH)

INLET PROTECTION DEVICE, TYPE I
22+552.0 RT
22+552.0 LT
22+611.0 RT
22+611.0 RT (PIPE)
22+611.0 LT
22+620.0 RT
22+635.0 LT
22+635.0 RT
22+660.0 RT

TEMPORARY STONE CHECK DAM, TYPE I
22+520.0 - 22+608.4 RT

VT STATE PLANE GRID N

SOIL INFORMATION: ENOSBURG LOAMY FINE SAND
K = 0.24, NOT HIGHLY ERODIBLE
HYDROLOGIC SOIL GROUP: C

WETLAND SEED MIX

22+630.000
END PROJECT
NH 019-3(496)
BEGIN APPROACH

22+680.000
END APPROACH

RURAL SEED MIX OUTSIDE OF WETLAND

RURAL SEED MIX OUTSIDE OF WETLAND

WETLAND #23
CLASS 2
PEMB

DRAINAGE AREA 7

MATCH LINE 22+520

22+520 22+540 22+560 22+580 22+600 22+620 22+640 22+660 22+680 22+700

GAS PUMPS
CONC.
PAVED
MON. WELLS AND GAS FILLERS
BND
CONC. CURB
SHELL
VENT
PDF
LIGHT
CONC. CURB
S.L. 350
HYCTRL
SHRUB
GRAVEL
W WIRE FENCE
BRANDON AUTO SALES
WSO
CONC
DRAINAGE AREA 7
RHT
PUT
UT
CZ
PW
BF
PAVED
US 7
CONC. CURB
PAVED WALK
WD. FENCE
SHRUB
S. LOCUST
BND. GRAVEL
2½SWF
GUY WIRE
SB HO THROUGH
HVCTRL #3
CHAIN LINK FENCE
ABANDONED QUARRY
S.MAPLE
M.MAPLE
WOODS
M. MAPLE
SLOPE
LEDGE
BASSWD
BM #1 CHS. SQ. IN LEDGE EL.= 120.49 m

STA 22+511.0 RT - 22+609.0 RT
STORMWATER TREATMENT GRASS CHANNEL
DISCHARGE PERMIT #4164 - INDS

USE URBAN LAWN SEED MIX FOR GRASS CHANNEL

SOIL INFORMATION: FARMINGTON-GALWAY-GALOO COMPLEX,
25 TO 50 PERCENT SLOPES, VERY ROCKY
K = 0.32, HIGHLY ERODIBLE
HYDROLOGIC SOIL GROUP: D

WETLAND SEED MIX

SEED	% WEIGHT
NODDING BUR MARIGOLD	3
FOX SLEDGE	13
CREEPING BENTGRASS	14
RIVERBANK WILD RYE	8
VIRGINIA WILD RYE	14
SOFT RUSH	2
SENSITIVE FERN	1.5
BLUE VERVAIN	1
BLACKWELL SWITCH GRASS	25
GREY DOGWOOD	0.5
CREEPING RED FESCUE	18

PAID FOR UNDER ITEM 651.15 SEED

SPECIAL PRECAUTIONS SHALL BE TAKEN TO PROMPTLY STABILIZE AREAS OF DISTURBED SOIL LOCATED IN/OR NEAR THE WETLAND. ANY "MATTED" AREAS WITHIN WETLAND WILL BE ALLOWED TO NATURALLY REVEGETATE FROM EXISTING ROOT AND SEEDS OF NATIVE PLANT SPECIES. IF ORDERED BY THE ENGINEER, WETLAND SEED MIX MAY BE BROADCASTED OVER THE MATTED AREA TO SUPPLEMENT THE EXISTING SEED AND ROOT STOCK. THE USE OF MULCH IN WETLANDS SHALL CONSIST OF CERTIFIED "WEED-FREE" HAY MULCH OR STRAW MULCH TO MITIGATE THE RISK OF THE SPREAD OF INVASIVE PLANT SPECIES.

0 10 20 30
SCALE IN METERS

NOTE
SEE CROSS SECTIONS FOR FINISHED GRADING

EROSION PREVENTION AND SEDIMENT CONTROL PLAN 16

PROJECT NAME: BRANDON
PROJECT NUMBER: NH 019-3(496)

FILE NAME: zb008s6-ec.dgn
PROJECT LEADER: C. BEAN
DESIGNED BY: M. HALEY
PLOT DATE: 2/23/2017
DRAWN BY: M. HALEY
CHECKED BY: D. MUNRO
SHEET 213 OF 601

CLD 02-0448 MODEL: 16

ISSUED FOR CONSTRUCTION

Metric

UTILITY RELOCATION GENERAL NOTES:

1. BUY AMERICA REQUIREMENTS APPLY TO ALL STEEL AND IRON PRODUCTS.

2. THE FOLLOWING DETAILS AND RELOCATION PLANS ARE FOR ELECTRIC (GREEN MOUNTAIN POWER), TELEPHONE (FAIRPOINT AND VTEL), AND CABLE TV (COMCAST). REFER TO PROJECT SPECIFICATIONS AND SPECIAL PROVISIONS FOR ADDITIONAL REQUIREMENTS.

3. MEET OR EXCEED THE MINIMUM PVC DUCT BEND RADII INDICATED BELOW UNLESS OTHERWISE NOTED IN THE PLANS.

UTILITY	NOMINAL DIA.	VERTICAL BEND	HORIZONTAL BEND
GREEN MOUNTAIN POWER	2" [50] 3" - 4" [75 - 100] 5" - 6" [125 - 150]	2'-0" [610] 3'-0" [914] 4'-0" [1219]	4'-0" [1219] 8'-0" [2438] 10'-0" [3048]
FAIRPOINT/COMCAST/ VTEL	2" - 4" [50 - 100]	3'-0" [914]	15'-0" [4572]

4. IT IS THE CONTRACTOR'S RESPONSIBILITY TO VERIFY LOCATION OF UNDERGROUND UTILITIES AND ENTRY POINTS TO BUILDINGS AND EXISTING UNDERGROUND SERVICE IN THE FIELD BEFORE DIGGING. SERVICE SHALL BE MAINTAINED AT ALL TIMES.

5. THE CONTRACTOR SHALL REPLACE, IN KIND, CONCRETE, ASPHALT, LAWN, AND ANY OTHER SURFACES AND SUBBASES ENCOUNTERED AND DISTURBED WHEN TRENCHING FOR DUCT WORK OR WHEN PLACING UTILITY EQUIPMENT. REFER TO DUCT BANK SPECIAL PROVISION FOR ADDITIONAL INFORMATION.

6. ONLY APPROXIMATE LOCATION AND DEPTH OF EXISTING (TO BE RETAINED) UNDERGROUND TELEPHONE CONDUIT IS SHOWN ON THE PLANS AND CROSS SECTIONS. PROPOSED UTILITY DUCTBANK DEPTH AS SHOWN ON DETAILS AND THE ROADWAY CROSS SECTIONS IS CONTINGENT ON ACTUAL ELEVATION OF RETAINED TELEPHONE LINES AS LOCATED IN THE FIELD. CONTRACTOR SHALL MAINTAIN A MINIMUM OFFSET OF 1'-0" [305] AT TRANSVERSE CROSSINGS, BETWEEN PROPOSED DUCTBANKS AND EXISTING TELEPHONE DUCTBANK, OR AS DIRECTED BY THE ENGINEER. ALL PROPOSED UTILITY DUCTBANKS SHALL GO UNDERNEATH EXISTING TELEPHONE DUCTBANK AT CROSSING LOCATIONS. REFER TO CROSS SECTIONS FOR ADDITIONAL INFORMATION.

7. CONTRACTOR SHALL MAINTAIN A MINIMUM OFFSET OF 1'-0" [305] BETWEEN PROPOSED DUCTBANK AND WATERLINES, SEWER LINES, DRAINAGE PIPES, AND DRAINAGE STRUCTURES UNLESS OTHERWISE SPECIFIED.

8. GREEN MOUNTAIN POWER (GMP) ENCASED CONDUIT SHALL BE POURED INDEPENDENTLY OF OTHER UTILITIES. CONTRACTOR SHALL MAINTAIN A MINIMUM 1'-0" [305] OFFSET, UNLESS NOTED OTHERWISE, BETWEEN ALL PARALLEL CONDUIT FOR OTHER UTILITIES. NO FOREIGN CONDUIT, PIPES, ETC. SHALL BE ALLOWED WITHIN GMP CONDUIT ENCASEMENT. CONTRACTOR SHALL PROVIDE FORMS AS NEEDED TO KEEP FOREIGN CONCRETE ENCASED CONDUIT SEPARATE WHEN ADJACENT TO GMP CONCRETE ENCASED CONDUIT.

9. ALL UTILITY CONDUIT SHALL BE ENCASED IN CONCRETE UNLESS SHOWN OTHERWISE ON THE PLANS.

10. TREES AND SHRUBS THAT MUST BE REMOVED DURING CONSTRUCTION, INCLUDING INSTALLATION OF DUCTBANKS, ARE DEPICTED ON THE ROADWAY LAYOUTS.

11. WHERE EXISTING AERIAL SERVICES ARE REPLACED WITH UNDERGROUND SERVICES AT BUILDINGS, CONTRACTOR SHALL SWEEP CONDUIT 1'-0" [305] MINIMUM ABOVE FINISHED GRADE DIRECTLY BELOW METER OR OTHER UTILITY/BUILDING INTERCONNECTION POINT, UNLESS NOTED OTHERWISE ON THE PLANS.

12. THE UTILITY COMPANIES MAY PROVIDE, AT THEIR EXPENSE, FULL TIME INSPECTORS WHEN NECESSARY DURING CONTRACTOR EXCAVATION, INSTALLATION, AND BACKFILL OPERATIONS PERTAINING TO THEIR UTILITIES. BEFORE BACKFILLING TRENCH, CONTRACTOR SHALL CONTACT THE REPRESENTATIVES IDENTIFIED IN THE PROJECT SPECIAL PROVISIONS, WHO WILL SCHEDULE THE INSPECTION OF THE NEW SYSTEM LOCATION AND DEPTH. ALL WORK IS SUBJECT TO INSPECTION AND APPROVAL BY THE UTILITY COMPANIES. NON-COMPLYING CONSTRUCTION WILL BE BROUGHT INTO COMPLIANCE AS DIRECTED AT THE EXPENSE OF THE CONTRACTOR. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO NOTIFY THE UTILITY COMPANIES AT LEAST 48 HOURS PRIOR TO BACKFILLING. IF NOTICE IS NOT GIVEN, THE UTILITY COMPANIES SHALL HAVE THE RIGHT TO REQUIRE ANY AND ALL PREVIOUSLY INSTALLED UTILITIES TO BE EXPOSED FOR VISUAL INSPECTION AT THE EXPENSE OF THE CONTRACTOR.

13. FOR CLARITY, NOT ALL PROPOSED DESIGN FEATURES ARE SHOWN ON THE UTILITY RELOCATION PLANS. CONTRACTOR MUST CONSULT THE OTHER CONSTRUCTION PLANS FOR ADDITIONAL DETAIL.

14. IT IS THE CONTRACTOR'S RESPONSIBILITY TO COORDINATE WITH ALL SUBCONTRACTORS TO ENSURE ALL MINIMUM OFFSETS AND REQUIREMENTS ARE MET.

15. ALL DIMENSIONS SHOWN IN BRACKETS ON THIS SHEET AND THE FOLLOWING SHEETS ARE IN MILLIMETERS.

UTILITY RELOCATION GENERAL NOTES

PROJECT NAME: BRANDON
PROJECT NUMBER: NH 019-3(496)

FILE NAME: zb008s6-utydet.dgn
PROJECT LEADER: C. BEAN
DESIGNED BY: UTILITIES

PLOT DATE: 2/23/2017
DRAWN BY: CLD
CHECKED BY: UTILITIES
SHEET 214 OF 601

CLD 02-0448 MODEL:1

ISSUED FOR CONSTRUCTION

VAOT Metric

UTILITY RISERS - PLAN 6

POLE NUMBER	LOCATION	UTILITY SERVICE	NUMBER OF CONDUITS ON POLE(S)				REMARKS
			PRIMARY	SECONDARY	CATV	TELEPHONE	
4/13	21+399 RT	TELEPHONE				(6) 4"	RISER TO BE HANDLED BY FAIRPOINT CONTRACTORS. ACTIVE FIBER IN CONDUITS TO BE RELOCATED BY FAIRPOINT.

DUCTBANK SCHEDULE - PLAN 6

ID	CONDUIT QUANTITIES		CONFIGURATION	DUCTBANK DIMENSIONS (W x H)		CONDUIT DESCRIPTION
	LENGTH (m)	TYPICAL		IMPERIAL	METRIC	
UI	10.5	(6) 4"		18" X 26"	457 X 660	(6) 4" TELEPHONE - WORK SHALL BE COORDINATED WITH FAIRPOINT CONTRACTORS. INTERCEPT EXISTING DUCTBANK AND EXTEND NEW DUCTBANK TO NEW RISER POLE.

UTILITY RISERS - PLAN 7

POLE NUMBER	LOCATION	UTILITY SERVICE	NUMBER OF CONDUITS ON POLE(S)				REMARKS
			PRIMARY	SECONDARY	CATV	TELEPHONE	
3/12	21+428 RT	PRIMARY & SECONDARY	(2) 6"	(1) 3"			SECONDARY SERVICE FOR SIGNALS (SEE NOTE 5)
2/11	21+435 RT	PRIMARY, CATV, TEL	(2) 6"		(3) 4"	(1) 4"	

DUCTBANK SCHEDULE - PLAN 7

ID	CONDUIT QUANTITIES		CONFIGURATION	DUCTBANK DIMENSIONS (W x H)		CONDUIT DESCRIPTION
	LENGTH (m)	TYPICAL		IMPERIAL	METRIC	
S1	17.0	(2) 4" & (1) 3"		33.5" X 11"	851 X 279	(1) 4" CATV, (1) 4" TELEPHONE, AND (1) 3" SECONDARY (SEE NOTE 5)
S2	3.6	(1) 3"		9.5" X 10"	241 X 254	(1) 3" SECONDARY SERVICE TO METER AT TRAFFIC SIGNAL CONTROLLER (SEE NOTE 5)
S3	7.4	(2) 4"		18" X 11"	457 X 279	(1) 4" CATV AND (1) 4" TELEPHONE SERVICE TO BUILDING
S3A	14.0	(1) 4"		10.5" X 11"	267 X 279	(1) 4" TELEPHONE SERVICE TO BUILDING
S3B	36.6	(1) 4"		-	-	(1) 4" CATV DIRECT BURIED CONDUIT TO BUILDING
U2	7.1	(1) 3", (2) 6"		19.125" X 22.75"	486 X 578	(1) 3" SECONDARY & (2) 6" PRIMARY (SEE NOTE 5)
U3	24.6	(1) 4", (3) 4", (1) 3", (4) 6"		55.75" X 22.75"	1416 X 578	(1) 4" TELEPHONE, (3) 4" CATV, (1) 3" SECONDARY, (4) 6" PRIMARY (SEE NOTE 5)
U4	58.2	(2) 4" & (4) 6"		38.75" X 22.75"	984 X 578	(2) 4" CATV AND (4) 6" PRIMARY

UTILITY RISERS - PLAN 8

POLE NUMBER	LOCATION	UTILITY SERVICE	NUMBER OF CONDUITS ON POLE(S)				REMARKS
			PRIMARY	SECONDARY	CATV	TELEPHONE	
10-1	35+079 RT	PRIMARY, TEL, CATV	(1) 6"		(2) 4"	(2) 4"	UNION STREET
10-2	35+087 RT	PRIMARY & TEL	(1) 6"			(2) 4"	UNION STREET
10-3A	35+077 LT	SECONDARY, TEL & CATV		(1) 4"	(1) 4"	(1) 4"	UNION STREET
40T/2/18/1	34+052 LT	CATV & TEL(EXIST.)			(2) 4"(EXIST.)	(2) 4"(EXIST.)	CARVER STREET

DUCTBANK SCHEDULE - PLAN 8

ID	CONDUIT QUANTITIES		CONFIGURATION	DUCTBANK DIMENSIONS (W x H)		CONDUIT DESCRIPTION
	LENGTH (m)	TYPICAL		IMPERIAL	METRIC	
S4	22.4	(2) 4" & (1) 4"		-	-	(1) 4" CATV, (1) 4" TELEPHONE, AND (1) 4" SECONDARY SERVICE DIRECT BURIED
S4A	10.1	(1) 4" & (1) 4"		-	-	(1) 4" TELEPHONE, (1) 4" SECONDARY SERVICE DIRECT BURIED
S4B	14.7	(1) 4"		-	-	(1) 4" CATV SERVICE TO BUILDING DIRECT BURIED
S5	5.4	(1) 4"		10.5" X 11"	267 X 279	(1) 4" TELEPHONE TO PEDESTAL
S6	28.8	(1) 2" & (1) 4"		24.875" X 11"	632 X 279	(1) 2" SECONDARY TO LIGHTED SIGN AND (1) 4" TELEPHONE SERVICE TO BUILDING
U4	55.7	(2) 4" & (4) 6"		38.75" X 22.75"	984 X 578	(2) 4" CATV AND (4) 6" PRIMARY
U5	-	(2) 6" & (2) 4"		29.125" X 22.75"	740 X 578	(2) 6" PRIMARY AND (2) 4" CATV. CONDUIT INSTALLED UNDER PHASE I CONTRACT.
U6	-	(2) 6" & (2) 4"		46.125" X 13.25"	1175 X 333	(2) 6" PRIMARY AND (2) 4" CATV. CONDUIT INSTALLED UNDER PHASE I CONTRACT.
U6A	6.4	(2) 4"		18" X 11"	457 X 279	(2) 4" CATV TO JUNCTION BOX
U6B	3.2	(2) 6"		18" X 13.125"	565 X 333	6" PRIMARY FROM VAULT TO CAPPED U6
U7	60.0	(2) 4", (2) 6", (2) 3"		35.625" X 22.75"	905 X 578	(2) 4" CATV, (2) 6" PRIMARY, (2) 3" PRIMARY (TO PAD-MOUNTED TRANSFORMER)
U8	75.2	(2) 4"		18" X 11"	457 X 279	(2) 4" CATV. INSTALL ADJACENT TO EXIST. TELEPHONE DUCTBANK WITH 6" MIN. OFFSET.
U9	4.5	(2) 3"		16" X 10"	406 X 254	(2) 3" PRIMARY TO TRANSFORMER
UI0	13.4	(6) 4"		18" X 26"	457 X 660	(6) 4" TELEPHONE
UI3	23.5	(2) 6", (6) 4", (2) 4"		44.125" X 26"	1121 X 660	(2) 6" PRIMARY, (6) 4" TELEPHONE, (2) 4" CATV
UI5	9.5	(2) 6", (5) 4", (2) 4"		44.125" X 26"	1121 X 660	(2) 6" PRIMARY, (5) 4" TELEPHONE, (2) 4" CATV
UI6	29.0	(2) 6", (4) 4", (2) 4"		44.125" X 22.75"	1121 X 578	(2) 6" PRIMARY, (4) 4" TELEPHONE, (2) 4" CATV
UI7	8.3	(1) 6" & (2) 4"		29.125" X 22.75"	740 X 578	(1) 6" PRIMARY AND (2) 4" TELEPHONE

UTILITY RISERS - PLAN 8A

POLE NUMBER	LOCATION	UTILITY SERVICE	NUMBER OF CONDUITS ON POLE(S)				REMARKS
			PRIMARY	SECONDARY	CATV	TELEPHONE	
9	SEE UTILITY PLAN 8A	PRIMARY & CATV	(2) 6"		(2) 4"		CONNECT SWEEPS TO TERMINATED CONDUIT U5 INSTALLED UNDER PHASE I CONTRACT.
9II/3-3	SEE UTILITY PLAN 8A	EXISTING					NEW OVERHEAD WILL BE INSTALLED FROM POLE #9

DUCTBANK SCHEDULE - PLAN 8A

ID	CONDUIT QUANTITIES		CONFIGURATION	DUCTBANK DIMENSIONS (W x H)		CONDUIT DESCRIPTION
	LENGTH (m)	TYPICAL		IMPERIAL	METRIC	
U5						SEE U5 IN CHART FOR PLAN 8 TO LEFT

UTILITY RISERS - PLAN 10

POLE NUMBER	LOCATION	UTILITY SERVICE	NUMBER OF CONDUITS ON POLE(S)				REMARKS
			PRIMARY	SECONDARY	CATV	TELEPHONE	
IX/2 (NEW)	9+041.4 RT	PRIMARY & CATV	(2) 6"		(2) 4"		
9/11/1/1	9+032 RT	TEL (FAIRPOINT & VTEL)				(2) 4", (1) 4"	
5-1/XX4	21+867 RT	PRIMARY, CATV, TEL (VTEL)	(2) 6"		(2) 4"	(1) 4"	
9/4/3-9/5	EXISTING POLE 21+867 RT	TEL (FAIRPOINT)				(2) 4"	

DUCTBANK SCHEDULE - PLAN 10

ID	CONDUIT QUANTITIES		CONFIGURATION	DUCTBANK DIMENSIONS (W x H)		CONDUIT DESCRIPTION
	LENGTH (m)	TYPICAL		IMPERIAL	METRIC	
UI8	17.4	(2) 4" & (2) 6"		29.125" X 22.75"	740 X 578	(2) 4" CATV AND (2) 6" PRIMARY
UI9	60.1	(1) 4", (2) 4", (2) 4", (2) 6"		44.125" X 22.75"	1121 X 578	(1) 4" TELEPHONE (VTEL), (2) 4" TELEPHONE (FAIRPOINT), (2) 4" CATV, AND (2) 6" PRIMARY

UTILITY RISERS - PLAN 13

POLE NUMBER	LOCATION	UTILITY SERVICE	NUMBER OF CONDUITS ON POLE(S)				REMARKS
			PRIMARY	SECONDARY	CATV	TELEPHONE	
5/7	22+130 LT	SECONDARY		(1) 2"			SECONDARY SERVICE TO METER ON LIGHTING PANEL BOARD (SEE NOTE 5)

DUCTBANK SCHEDULE - PLAN 13

ID	CONDUIT QUANTITIES		CONFIGURATION	DUCTBANK DIMENSIONS (W x H)		CONDUIT DESCRIPTION
	LENGTH (m)	TYPICAL		IMPERIAL	METRIC	
S8	2.0	(1) 2"		-	-	(1) 2" SECONDARY SERVICE DIRECT BURIED TO METER ON LIGHTING PANEL BOARD (SEE NOTE 5)

UTILITY RISERS - PLAN 16

POLE NUMBER	LOCATION	UTILITY SERVICE	NUMBER OF CONDUITS ON POLE(S)				REMARKS
			PRIMARY	SECONDARY	CATV	TELEPHONE	
10/17	22+551 LT	TELEPHONE				(3) 4"	RISER TO BE HANDLED BY FAIRPOINT CONTRACTORS. ACTIVE FIBER IN CONDUITS TO BE RELOCATED BY FAIRPOINT.

DUCTBANK SCHEDULE - PLAN 16

ID	CONDUIT QUANTITIES		CONFIGURATION	DUCTBANK DIMENSIONS (W x H)		CONDUIT DESCRIPTION
	LENGTH (m)	TYPICAL		IMPERIAL	METRIC	
U20	4.4	(3) 4"		25.5" X 11"	648 X 279	(3) 4" TELEPHONE - WORK SHALL BE COORDINATED WITH FAIRPOINT CONTRACTORS. INTERCEPT EXISTING (3) 1" CONDUIT WITH (3) REDUCERS AND EXTEND NEW DUCTBANK TO NEW RISER POLE.

NOTES;

1. ALL CONCRETE ENCASED CONDUIT SHALL BE SCHEDULE 40 PVC. ALL DIRECT BURIED OR RISER CONDUIT SHALL BE SCHEDULE 80 PVC UNLESS DIRECTED OTHERWISE BY THE ENGINEER.
2. WHERE THE ORIENTATION OF THE DUCTBANK REQUIRES CHANGES, CONTRACTOR SHALL VERIFY ALTERNATE DESIGN WITH ENGINEER PRIOR TO MAKING CHANGE.
3. WHERE THE CONDUIT REQUIRES A CHANGE IN ORIENTATION DUE TO UNFORESEEN OBSTACLES, THE CONDUIT SHALL RETURN TO THE DESIGNED ORIENTATION ONCE THE OBSTACLE IS AVOIDED.
4. PRIMARY AND SECONDARY INDICATES PRIMARY ELECTRIC AND SECONDARY ELECTRIC, RESPECTIVELY.
5. FROM POLES 3/12 (21+428 RT) AND 5/7 (22+130 LT), CONTRACTOR TO PROVIDE WIRED CONDUIT TO LOCATION FOR LIGHTING / TRAFFIC SIGNALS LOAD AS SHOWN ON THE PLANS. CONTRACTOR SHALL COORDINATE WITH UTILITY COMPANY TO DETERMINE REQUIRED CONDUCTOR SIZES. LENGTH OF CONDUCTORS SHALL INCLUDE LENGTH TO TOP OF WEATHERHEAD PLUS 48" [1200]. CONDUCTORS SHALL BE INCIDENTAL TO THE WIRED CONDUIT PAY ITEM (FOR RISERS) OR THE APPLICABLE DUCT BANK PAY ITEM (FOR BURIED PORTION).

NOTES (CONT.);

6. LENGTH OF CONDUIT IS APPROXIMATE. ADDITIONAL QUANTITY OF CONDUIT IS REQUIRED WHERE ALIGNMENT TRANSITIONS AT VAULTS, JUNCTION BOXES, ETC.
7. EQUIVALENT CONDUIT DIAMETER IN MILLIMETERS:
   1" [25]
   2" [50]
   3" [75]
   4" [100]
   5" [125]
   6" [150]

DUCTBANK AND RISER POLE SCHEDULES

PROJECT NAME: BRANDON
PROJECT NUMBER: NH 019-3(496)

FILE NAME: zb008s6-utydet.dgn
PROJECT LEADER: C. BEAN
DESIGNED BY: UTILITIES
PLOT DATE: 2/23/2017
DRAWN BY: CLD
CHECKED BY: UTILITIES
SHEET 215 OF 601

CLD 02-0448 MODEL: 2

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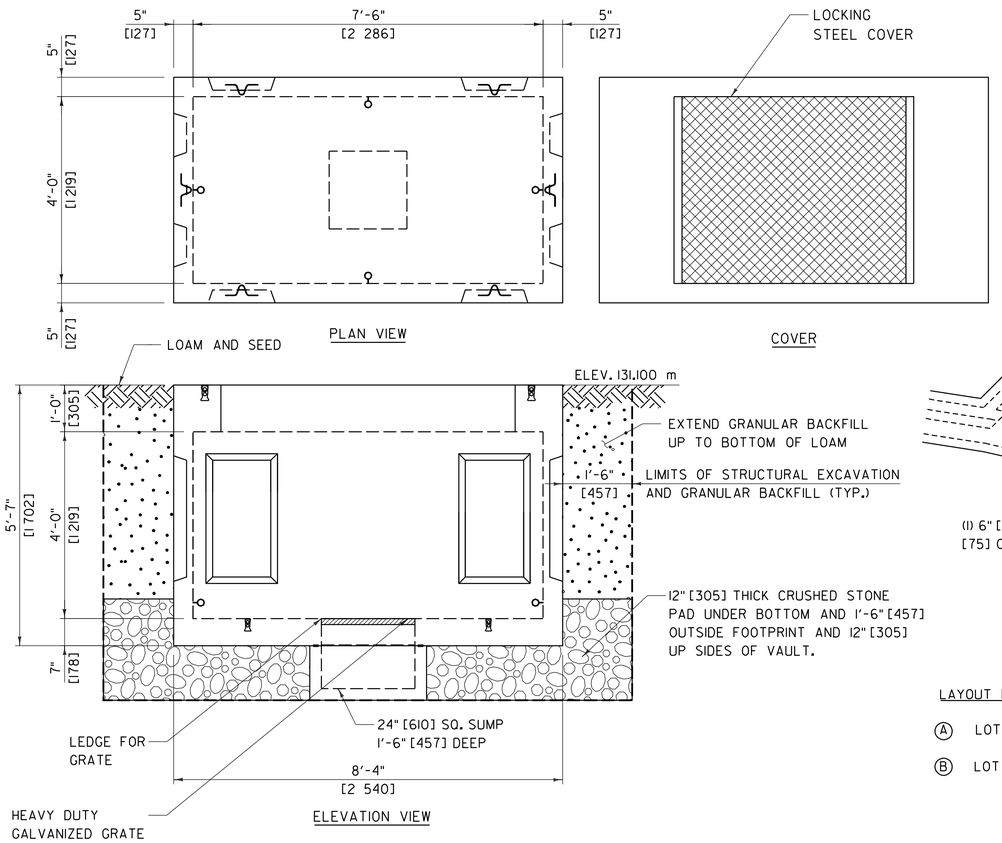
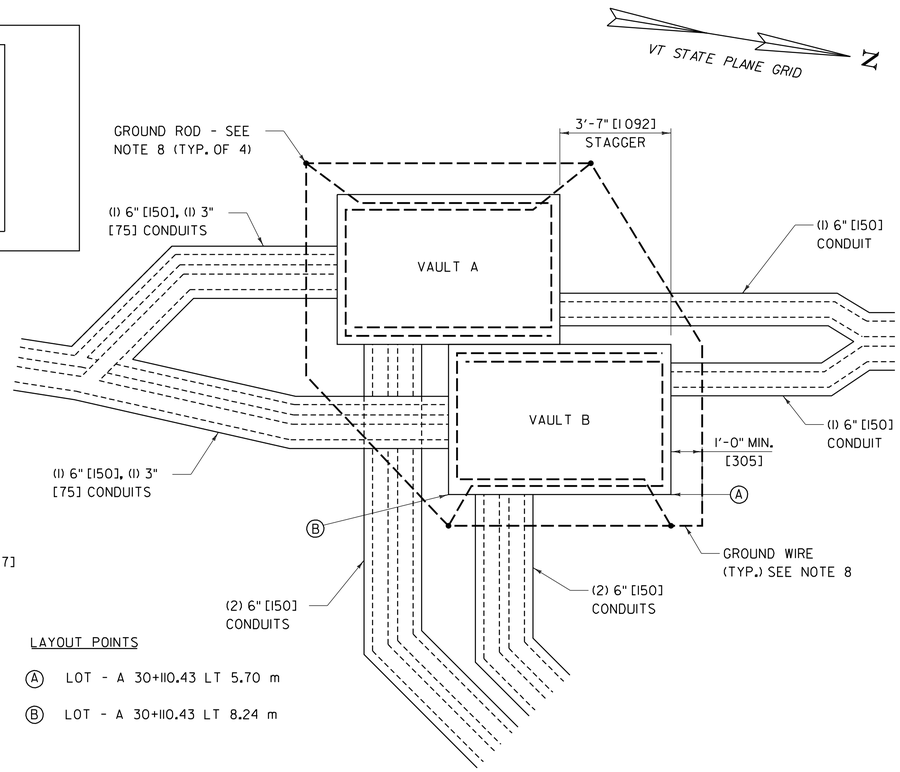
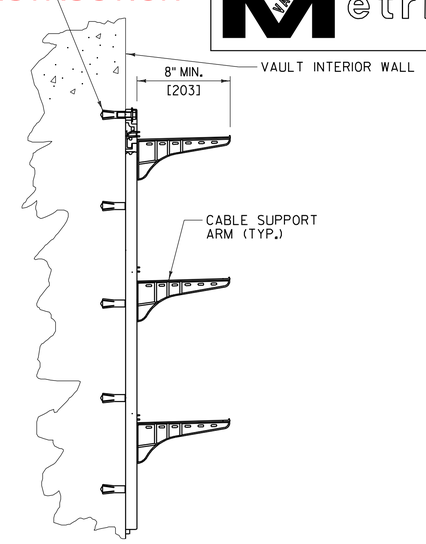


SHALLOW VAULT DETAIL (TWO REQUIRED)



DUAL VAULT ARRANGEMENT

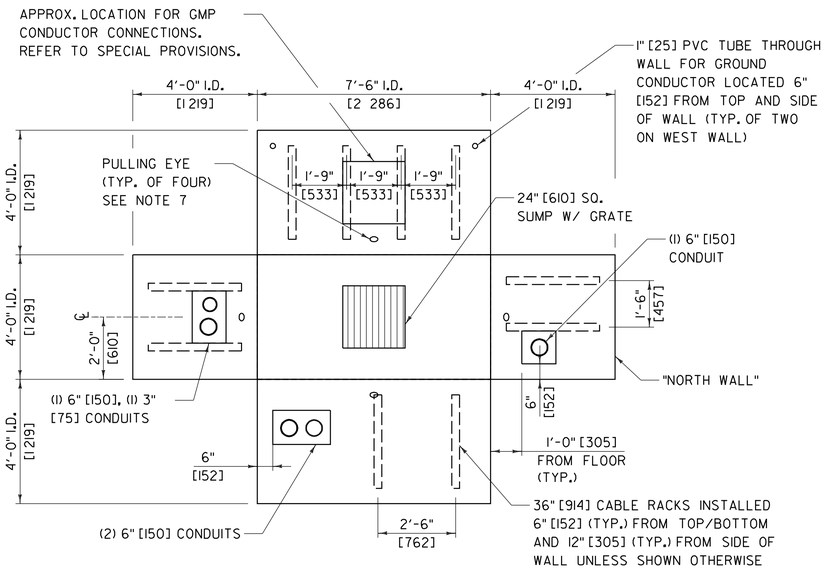


NOTES:

1. RACK SHALL BE HEAVY DUTY POLYCARBONATE.
2. CABLE SUPPORT ARM SHALL BE 8" [203] IN LENGTH TO SUPPORT 600A CONNECTORS AND CABLES.
3. ALL MOUNTING HARDWARE SHALL BE STAINLESS STEEL. REFER TO MANUFACTURER RECOMMENDATIONS FOR MOUNTING HARDWARE REQUIREMENTS.

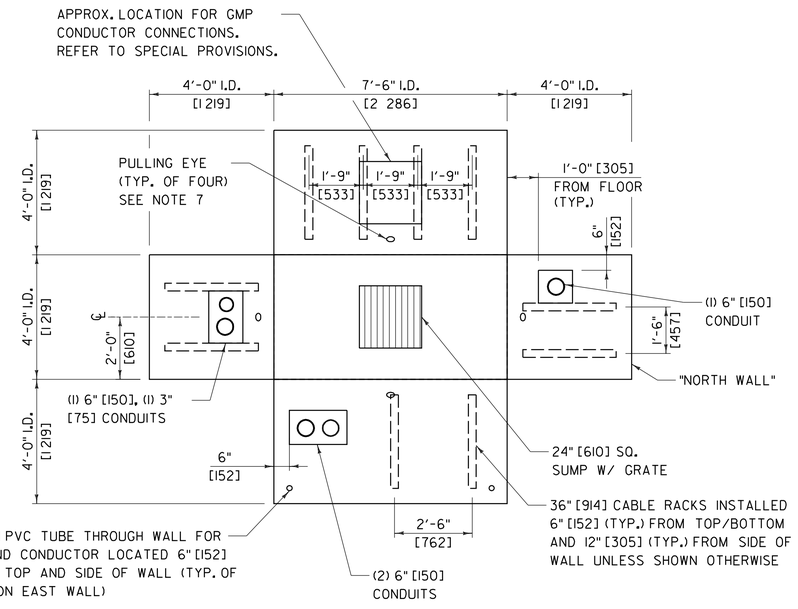
CABLE RACK DETAIL

NOT TO SCALE



VAULT "A" TAKE-OFF DETAIL

(LOOKING DOWN INTO VAULT WITH WALLS FOLDED OUT)



VAULT "B" TAKE-OFF DETAIL

(LOOKING DOWN INTO VAULT WITH WALLS FOLDED OUT)

NOTES:

1. CONTRACTOR SHALL INSTALL (2) VAULTS ADJACENT TO EACH OTHER STAGGERED AS SHOWN IN DUAL VAULT ARRANGEMENT DETAIL. THIS ARRANGEMENT ALLOWS FUTURE MAINTENANCE TO BE CONDUCTED IN ONE VAULT WITH OTHER VAULT REMAINING LIVE.
2. PRIOR TO FABRICATING, VERIFY EXACT CONDUIT TERMINATOR LOCATIONS IN FIELD. ACTUAL LOCATIONS MAY VARY DUE TO CONSTRUCTION CONDITIONS. CONTRACTOR SHALL PROVIDE GMP WITH FINAL TAKE-OFF DETAILS FOR REVIEW PRIOR TO FORMING/FABRICATION.
3. CONCRETE 28 DAY COMPRESSIVE STRENGTH = 5,000 psi [35 MPa].
4. REBAR TO BE EPOXY COATED GRADE 60 [415 MPa] PER ASTM A615. ALL HOLES AND ROOF OPENING SHALL HAVE ADDITIONAL REBAR REINFORCEMENT. REBAR AT DUCT OPENINGS TO BE SPLIT TO ALLOW FIELD BENDING FOR SUPPORT OF INCOMING DUCT BANK.
5. PROVIDE (1) PRECAST CONCRETE SUMP PER VAULT. JOINT AT SUMP TO BE SEALED WITH 1" [25] BUTYL RUBBER.
6. PROVIDE (10) 36" [914] CABLE RACKS PER VAULT AS SHOWN ON TAKE-OFF DETAILS. SEE CABLE RACK DETAIL THIS SHEET. COORDINATE CABLE RACK SPACING WITH GMP.
7. PULLING EYES: 1¼" [32] GALVANIZED SHANK PULLING EYE WITH 4" [102] SQUARE WASHER SUITABLE FOR 15,200 LBS [68 KN] AT 180 DEG. PULL, 3800 LBS [17 KN] AT 90 DEG. PULL. ONE PULLING EYE SHALL BE INSTALLED AT C/L OF EACH WALL LOCATED 6" [152] ABOVE FLOOR.
8. CONTRACTOR SHALL SUPPLY AND INSTALL (4) 8'-0" [2 438] ⅝" [16] COPPER CLAD GROUND RODS. RODS SHALL BE DRIVEN VERTICALLY, LOCATED 12" [305] MIN. BEYOND EACH CORNER OF THE DUAL SHALLOW VAULT, SO THAT THE TOP IS 5" [127] BELOW GROUND LINE. CONTRACTOR SHALL SUPPLY AND INSTALL 2/0 BARE COPPER GROUND WIRE. CONNECT TO EACH GROUND ROD 7" [178] FROM THE TOP (12" [305] BELOW GROUND LINE) WITH EXOTHERMIC (CADWELD) CONNECTION. TWO ENDS SHALL BE BROUGHT INTO EACH SHALLOW VAULT WITH 16'-0" [4 877] OF WIRE PROVIDED INSIDE VAULT FOR GMP TO UTILIZE FOR EQUIPMENT CONNECTIONS.
9. REFER TO SPECIAL PROVISIONS FOR ADDITIONAL INFORMATION REGARDING FABRICATION AND INSTALLATION REQUIREMENTS.
10. DENSE GRADED CRUSHED STONE PAD, STRUCTURAL EXCAVATION AND GRANULAR BACKFILL SHALL BE PAID FOR UNDER APPROPRIATE CONTRACT ITEMS.

UNDERGROUND UTILITY DETAILS

ELECTRIC DUAL SHALLOW VAULT DETAILS

NOT TO SCALE

PROJECT NAME:	BRANDON
PROJECT NUMBER:	NH 019-3(496)

FILE NAME: zb008s6-utydet.dgn	PLOT DATE: 2/23/2017
PROJECT LEADER: C. BEAN	DRAWN BY: CLD
DESIGNED BY: UTILITIES	CHECKED BY: UTILITIES
	SHEET 216 OF 601

CLD 02-0448 MODEL: 3

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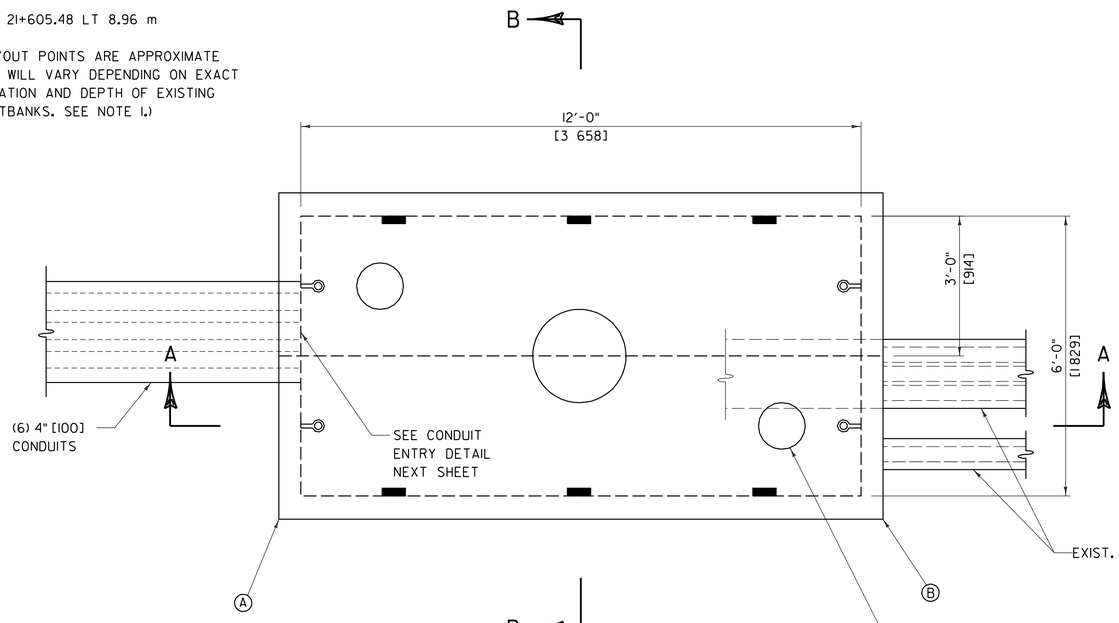
LAYOUT POINTS

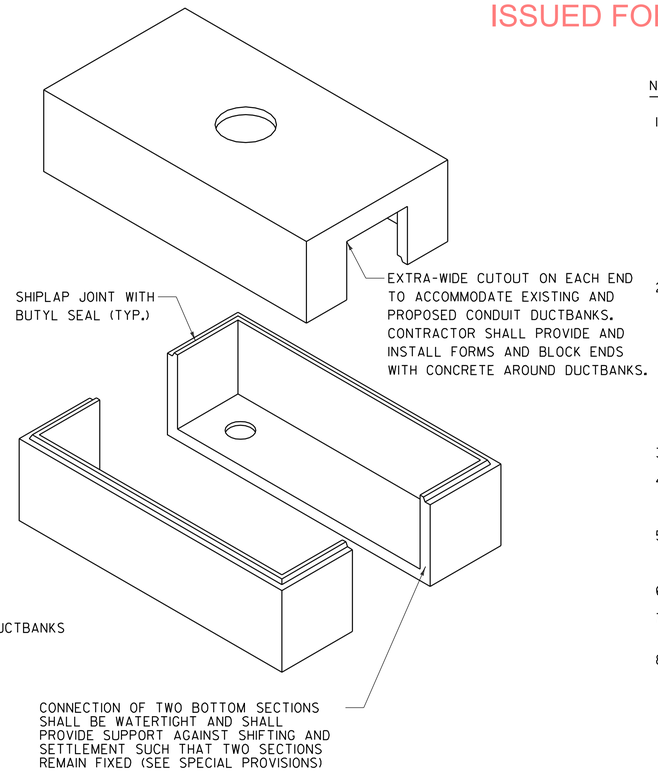
Ⓐ 21+601.86 LT 9.55 m

Ⓑ 21+605.48 LT 8.96 m

(LAYOUT POINTS ARE APPROXIMATE AND WILL VARY DEPENDING ON EXACT LOCATION AND DEPTH OF EXISTING DUCTBANKS. SEE NOTE 1.)



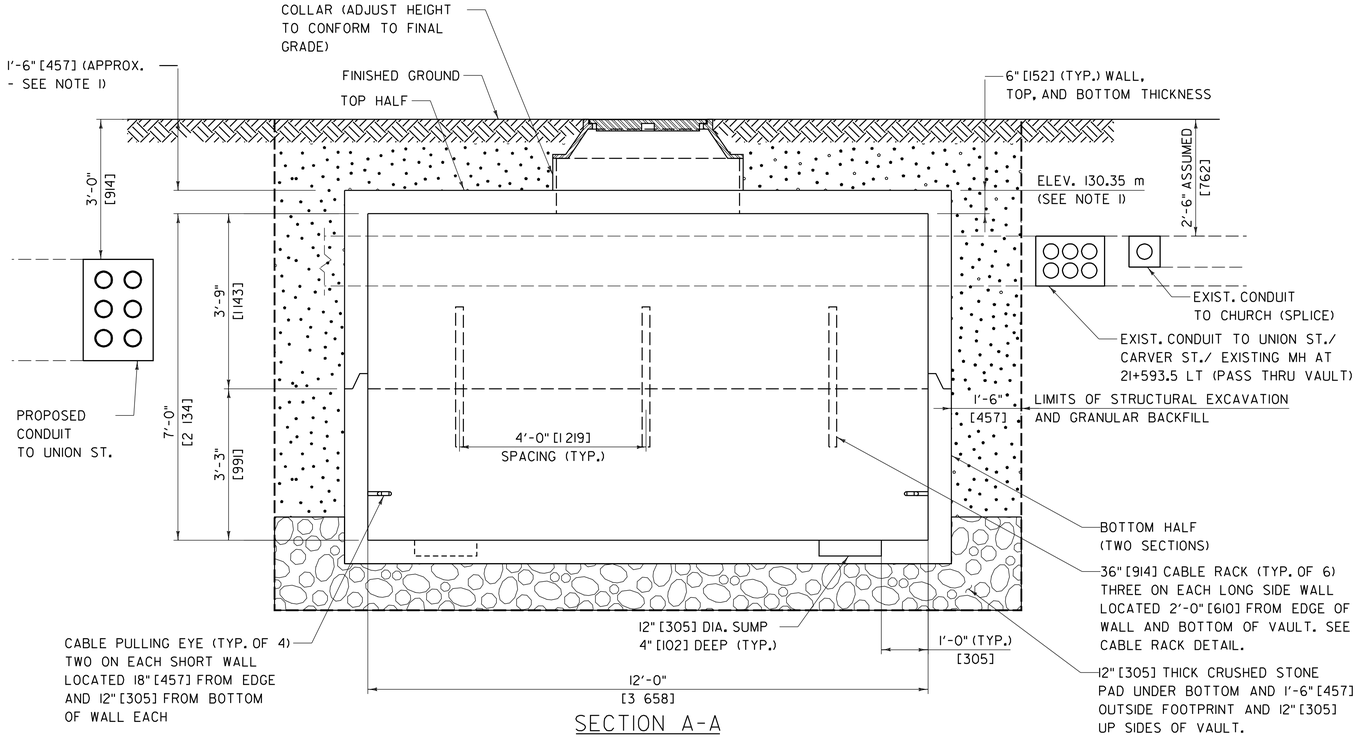
PLAN



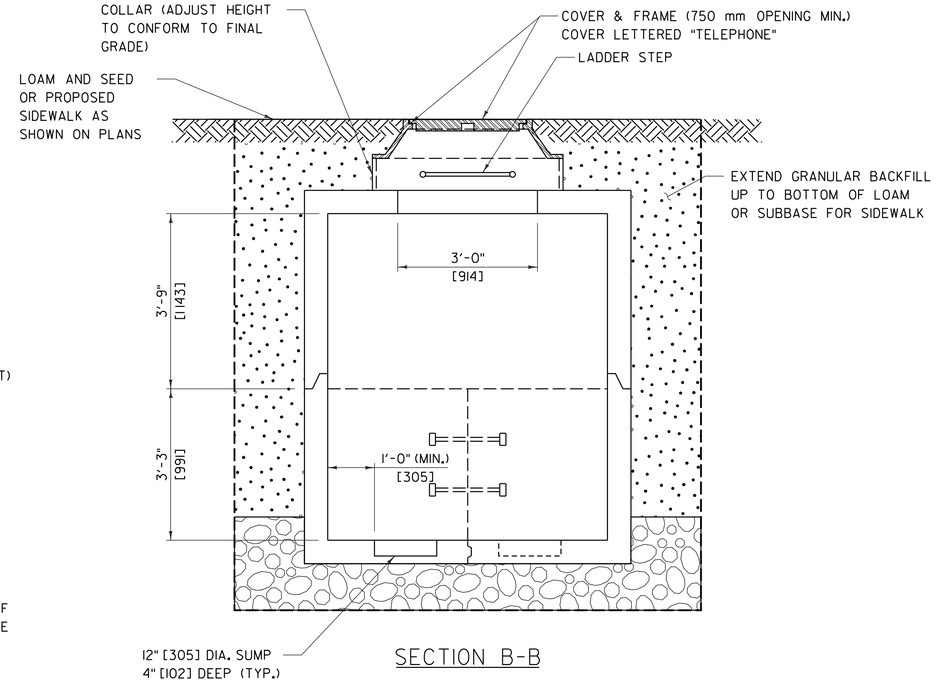
ISOMETRIC VIEW

NOTES:

1. PRIOR TO FABRICATING, CONTRACTOR SHALL VERIFY EXACT LOCATION AND DEPTH OF EXISTING TELEPHONE DUCTBANKS AND COORDINATE WITH FAIRPOINT TO DETERMINE LOCATION OF REQUIRED SPLICE POINTS AND REQUIREMENTS FOR CONNECTING SERVICE INSIDE VAULT. VAULT ELEVATION AND LAYOUT POINTS SHOWN ON THESE DETAILS ARE BASED ON BEST AVAILABLE INFORMATION AND SHOULD BE REVISED, IF NECESSARY, ONCE EXACT LOCATION OF VAULT IS DETERMINED. TOP OF VAULT SHALL BE SET APPROX. 18" [457] BELOW FINISHED GRADE. FINAL DIMENSIONS OF VAULT MAY ALSO NEED TO BE MODIFIED TO ACCOMMODATE PROPOSED CONDUIT TERMINATOR LOCATIONS. CONTRACTOR SHALL PROVIDE FAIRPOINT WITH FINAL DETAILS FOR APPROVAL PRIOR TO FABRICATION.
2. DURING EXCAVATION, CONTRACTOR SHALL COORDINATE WITH FAIRPOINT TO DETERMINE REQUIREMENTS FOR PROTECTING AND PROPERLY SUPPORTING EXISTING ACTIVE DUCTBANKS WITHIN THE EXCAVATION AREA. BOTH SECTIONS OF BOTTOM HALF OF VAULT SHALL BE PLACED AND CONNECTED BENEATH ACTIVE LINES. ONCE BOTTOM HALF OF VAULT IS SET, TOP HALF OF VAULT SHALL BE INSTALLED ONTO BOTTOM HALF WITH THE SUPPORTED DUCTBANK(S) PASSING THROUGH THE TOP HALF. EXTRA-WIDE CUTOUTS WILL BE REQUIRED ON TOP HALF OF VAULT. FORMS FOR PROPOSED DUCTBANK SHALL BE EXTENDED TO VAULT AND FORMS SHALL BE CONSTRUCTED AT BOTH ENDS OF VAULT FOR BLOCKING THE ENDS WITH CONCRETE AND ENCASING THE EXISTING AND PROPOSED DUCTBANKS.
3. CONCRETE 28 DAY COMPRESSIVE STRENGTH = 5,000 psi [35 MPa].
4. REBAR TO BE EPOXY COATED GRADE 60 [415 MPa] PER ASTM A615. ALL HOLES AND ROOF OPENING SHALL HAVE ADDITIONAL REBAR REINFORCEMENT.
5. PULLING EYES SHALL BE 1¼" [32] GALVANIZED SHANK PULLING EYE WITH 4" [102] SQUARE WASHER SUITABLE FOR 15,200 LBS [68 KN] AT 180 DEG. PULL, 3800 LBS [17 KN] AT 90 DEG. PULL.
6. PROVIDE (2) RECESSED CAST IRON SUMPS WITH COVERS AT CORNERS.
7. SEE SPECIAL PROVISIONS FOR ADDITIONAL INFORMATION REGARDING FABRICATION AND INSTALLATION REQUIREMENTS.
8. DENSE GRADED CRUSHED STONE PAD, STRUCTURAL EXCAVATION AND GRANULAR BACKFILL SHALL BE PAID FOR UNDER APPROPRIATE CONTRACT ITEMS.



SECTION A-A



SECTION B-B

SPLIT BOTTOM TELEPHONE VAULT

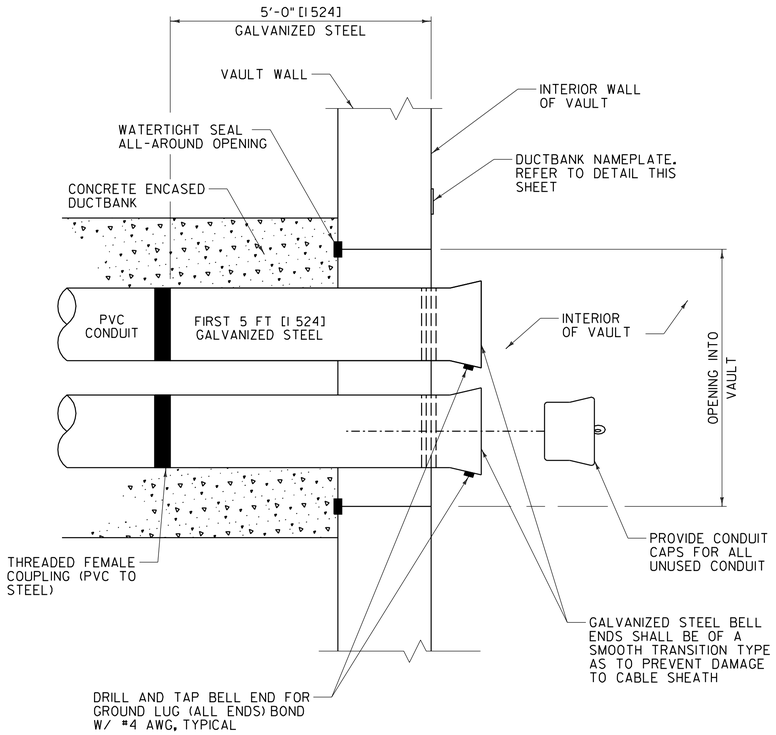
NOT TO SCALE

UNDERGROUND UTILITY DETAILS

PROJECT NAME:	BRANDON
PROJECT NUMBER:	NH 019-3(496)

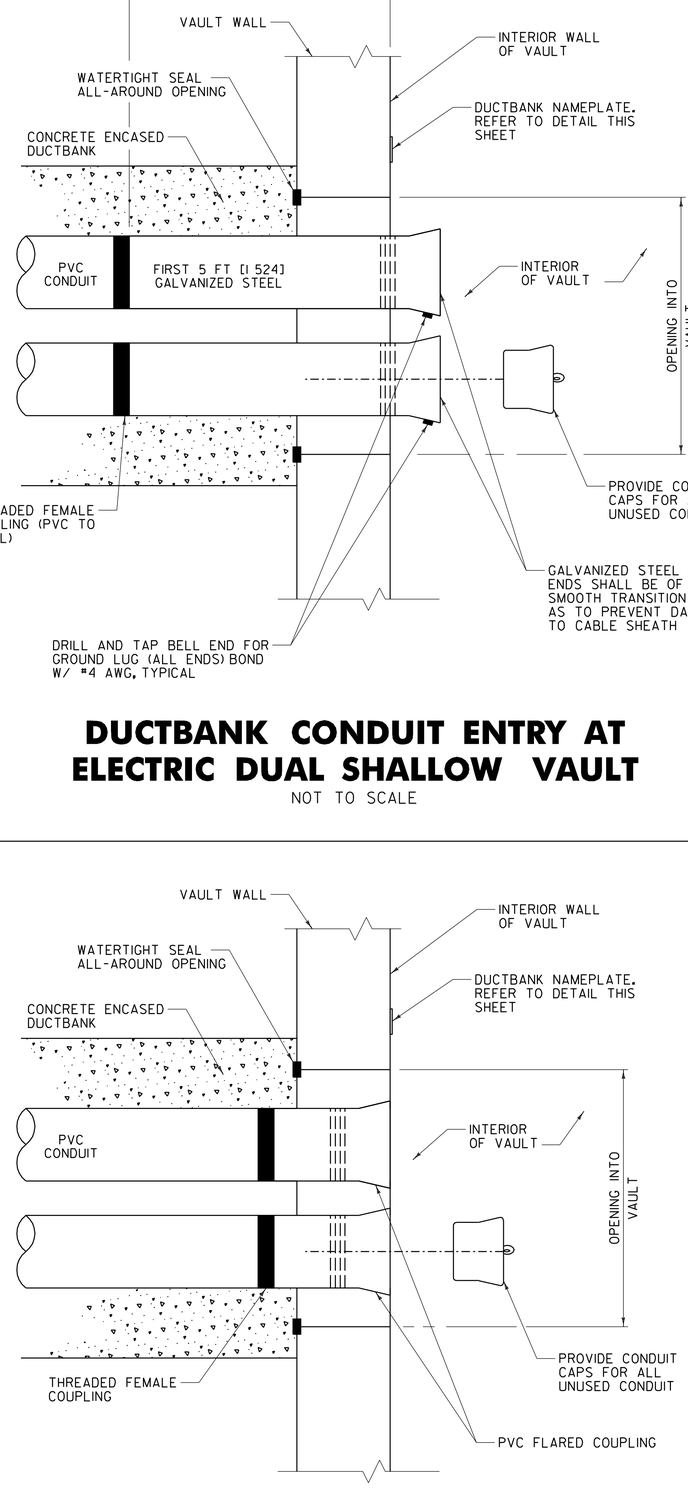
FILE NAME: zb008s6-utydet.dgn	PLOT DATE: 2/23/2017
PROJECT LEADER: C. BEAN	DRAWN BY: CLD
DESIGNED BY: UTILITIES	CHECKED BY: UTILITIES
	SHEET 217 OF 601

CLD 02-0448 MODEL: 4



DUCTBANK CONDUIT ENTRY AT ELECTRIC DUAL SHALLOW VAULT

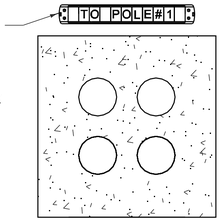
NOT TO SCALE

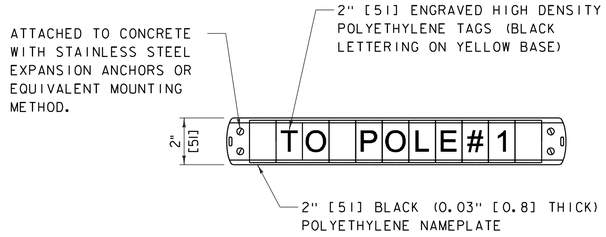


DUCTBANK CONDUIT ENTRY AT SPLIT BOTTOM TELEPHONE VAULT

NOT TO SCALE

PROVIDE NAMEPLATE ON INSIDE WALL OF VAULT OR JUNCTION BOX INDICATING ROUTING OF DUCTBANK





NOTES:

1. INSTALL NAMEPLATES AT ALL DUCTBANKS ENTERING AND LEAVING VAULTS/JUNCTION BOXES.

DUCTBANK NAMEPLATE DETAIL

NOT TO SCALE

UNDERGROUND UTILITY DETAILS

PROJECT NAME: BRANDON
PROJECT NUMBER: NH 019-3(496)

FILE NAME: zb008s6-utydet.dgn
PROJECT LEADER: C. BEAN
DESIGNED BY: UTILITIES

PLOT DATE: 2/23/2017
DRAWN BY: CLD
CHECKED BY: UTILITIES
SHEET 218 OF 601

CLD 02-0448 MODEL: 5

ISSUED FOR CONSTRUCTION

VAOT Metric

NOTES:

1. DEPTHS SHALLOWER THAN 36" [914] MAY BE ALLOWED WHERE OBSTRUCTIONS SUCH AS LEDGE OR OTHER UTILITIES ARE ENCOUNTERED. CONSULT WITH UTILITY COMPANIES IF DEPTHS SHALLOWER THAN 24" [610] ARE ENCOUNTERED.

2. CONDUIT SHALL REMAIN IN SAME LOCATION WITHIN DUCTBANK FOR ENTIRE LENGTH OF CONDUIT RUN WHEN POSSIBLE. WHERE DUCTBANK MUST BE RE-ORIENTATED TO AVOID EXISTING UTILITIES, CONDUIT SHALL BE SET TO RETURN TO ORIGINAL ORIENTATION SUCH THAT CONFIGURATION AT BOTH ENDS IS THE SAME.

3. ALL CONDUIT SHALL BE SCHEDULE 40 PVC AND U.L. LISTED, UNLESS NOTED OTHERWISE. ALL PVC CONDUIT SHALL BE PRIMED AND GLUED TO FORM A WATERTIGHT SEAL. PITCH CONDUIT TO DRAIN AWAY FROM BUILDINGS WHEN APPLICABLE.

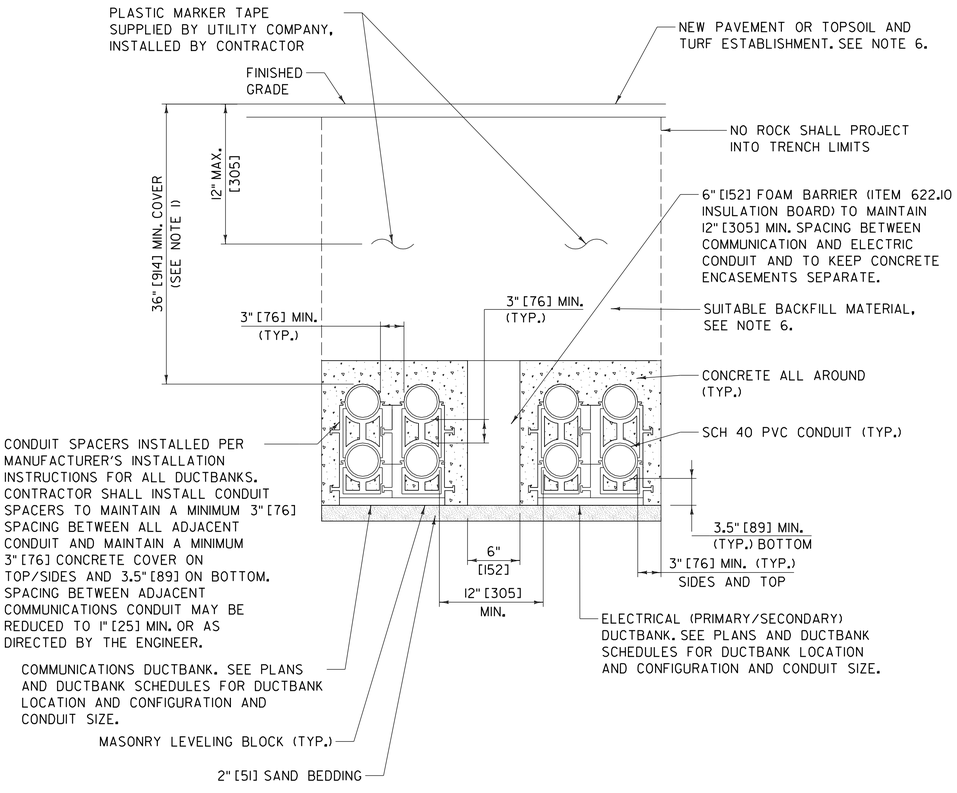
4. CONCRETE SHALL CONFORM TO THE REQUIREMENTS OF THE SPECIFICATIONS SECTION 541 FOR CONCRETE, CLASS B. CONCRETE SHALL BE WORKED IN TO COMPLETELY SURROUND CONDUITS.

5. BOTTOM OF TRENCH SHALL BE UNDISTURBED ORIGINAL GROUND OR FIRMLY COMPACTED EARTH FREE FROM VOIDS, ROCK, RUBBLE AND RELATIVELY SMOOTH AND LINED WITH MASONRY LEVELING BLOCKS (FOR BASE SPACERS) ON A 2" [51] BED OF CLEAN SAND.

6. BACKFILL MATERIAL AND COMPACTION REQUIREMENTS SHALL CONFORM TO SUBSECTION 678.03 OF THE SPECIFICATIONS AND SHALL BE INCIDENTAL TO THE DUCTBANK PAY ITEMS. BENEATH PAVED AREAS, BACKFILL AND NEW PAVEMENT SHALL CONFORM TO THE TYPICAL ROADWAY SECTION AND APPLICABLE PAY ITEMS. TOPSOIL AND TURF ESTABLISHMENT ITEMS SHALL BE PAID FOR SEPARATELY UNDER THE APPLICABLE PAY ITEMS.

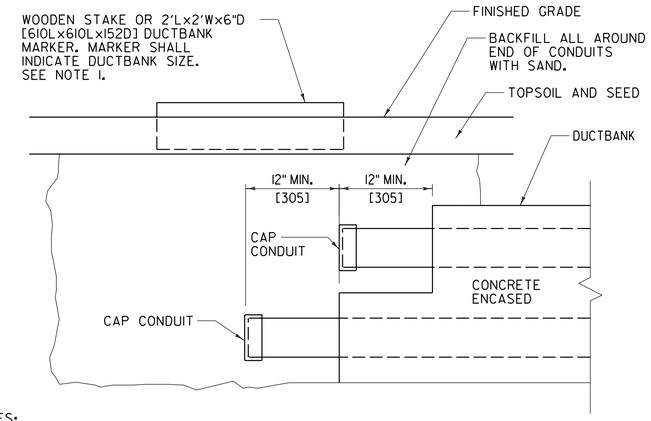
7. THE LINEAR SPECIAL PROVISION PAY ITEM FOR DUCTBANK SHALL INCLUDE ALL MATERIALS, AS DEFINED IN THE DUCTBANK SPECIAL PROVISION, NECESSARY TO INSTALL BOTH COMMUNICATION AND ELECTRICAL DUCTBANKS IN THE SAME TRENCH, WHEN APPLICABLE, AND DOES NOT CONSIDER THE DUCTBANK SEPARATELY, EVEN THOUGH THEY ARE TO BE SEPARATE POURS.

8. EXCAVATION AND SAND BEDDING SHALL BE INCIDENTAL TO THE APPROPRIATE DUCTBANK PAY ITEMS.



TYPICAL CONCRETE ENCASED DUCTBANK SECTION

NOT TO SCALE



NOTES:

1. WOODEN STAKE SHALL BE PLACED AT CONDUIT ENDS FOR TEMPORARY/OVERNIGHT TERMINATIONS OF DUCTBANK. LONG-TERM TERMINATIONS SHALL HAVE A DUCTBANK MARKER LOCATED ABOVE THE CONDUIT. CONTRACTOR SHALL PROVIDE TIES TO THE LOCATION OF THE TERMINATION.

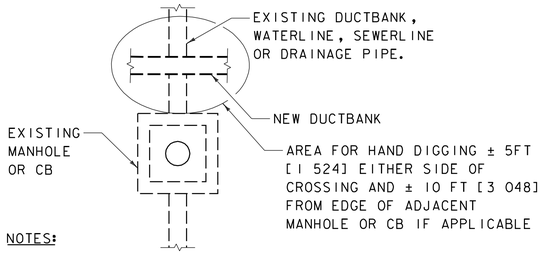
2. DETAIL DEPICTS TERMINATION BENEATH GRASSED AREAS. FOR LONG-TERM TERMINATIONS BENEATH PAVED AREAS, CONTRACTOR SHALL BACKFILL PER THE SPECIFICATIONS AND RESTORE SUBBASE AND PAVEMENT AS NOTED ON THE DUCTBANK SECTION ON THIS SHEET.

3. LONG-TERM TERMINATIONS THAT WILL BE CONNECTED TO FUTURE DUCTBANKS SHALL INCLUDE REINFORCEMENT BARS. REFER TO DUCTBANK SPECIAL PROVISION.

4. ALL MATERIALS NECESSARY TO PROVIDE DUCTBANK TERMINATIONS INCLUDING SAND BACKFILL SHALL BE INCIDENTAL TO THE DUCTBANK PAY ITEM. TURF ESTABLISHMENT ITEMS AND RESTORED SUBBASE AND PAVEMENT SHALL BE PAID FOR SEPARATELY.

TYPICAL CONDUIT AND DUCTBANK TERMINATION DETAIL

NOT TO SCALE

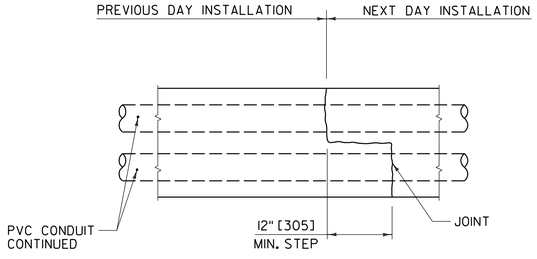


NOTES:

1. HAND DIGGING SHALL BE PERFORMED AT ALL CROSSINGS WITHIN 5' [1524] OF IDENTIFIED EXISTING FEATURE. HAND DIGGING SHALL BE INCIDENTAL TO THE DUCTBANK PAY ITEM.

HAND DIGGING AT POTENTIAL CONFLICT LOCATIONS

NOT TO SCALE



TYPICAL DUCTBANK CONSTRUCTION JOINT

NOT TO SCALE

UNDERGROUND UTILITY DETAILS

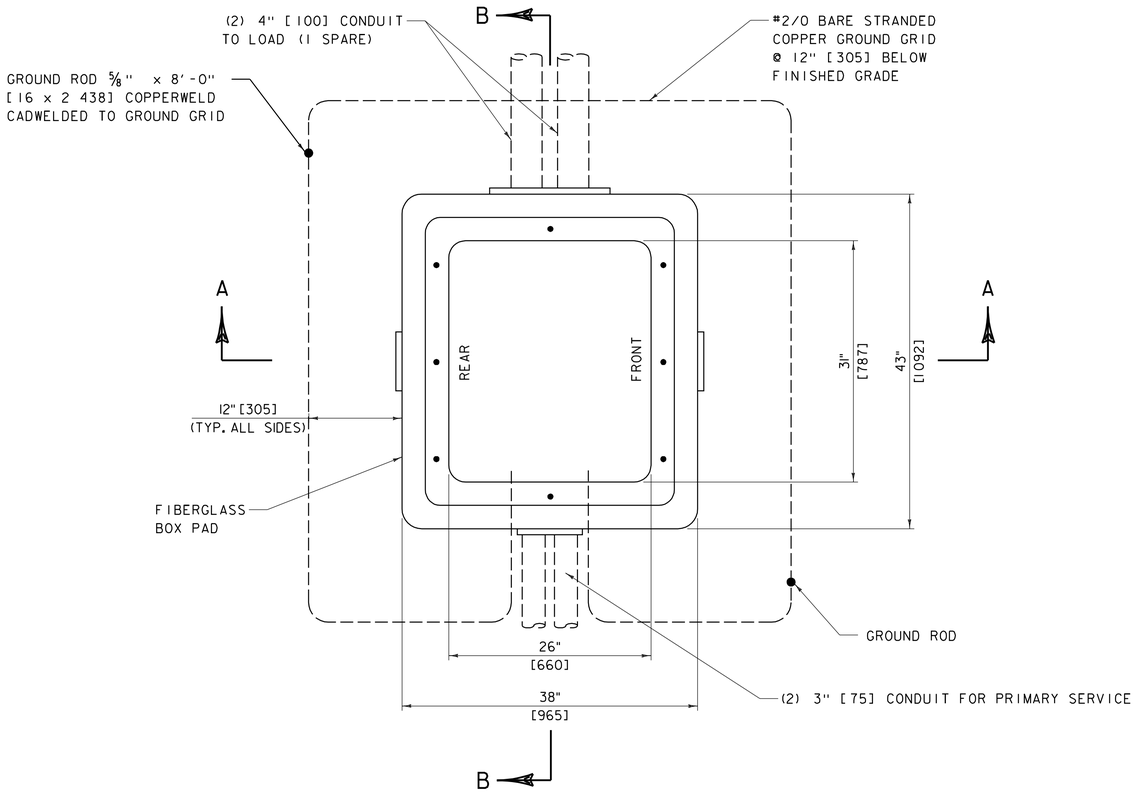
PROJECT NAME: BRANDON
PROJECT NUMBER: NH 019-3(496)

FILE NAME: zb008s6-utydet.dgn
PROJECT LEADER: C. BEAN
DESIGNED BY: UTILITIES

PLOT DATE: 2/23/2017
DRAWN BY: CLD
CHECKED BY: UTILITIES
SHEET 219 OF 601

CLD 02-0448 MODEL: 6

ISSUED FOR CONSTRUCTION

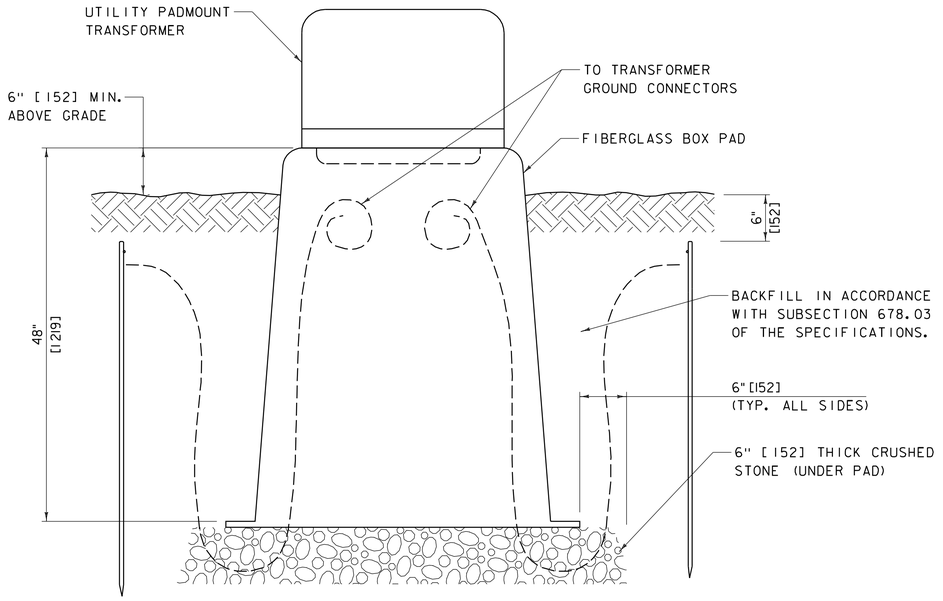


PLAN VIEW

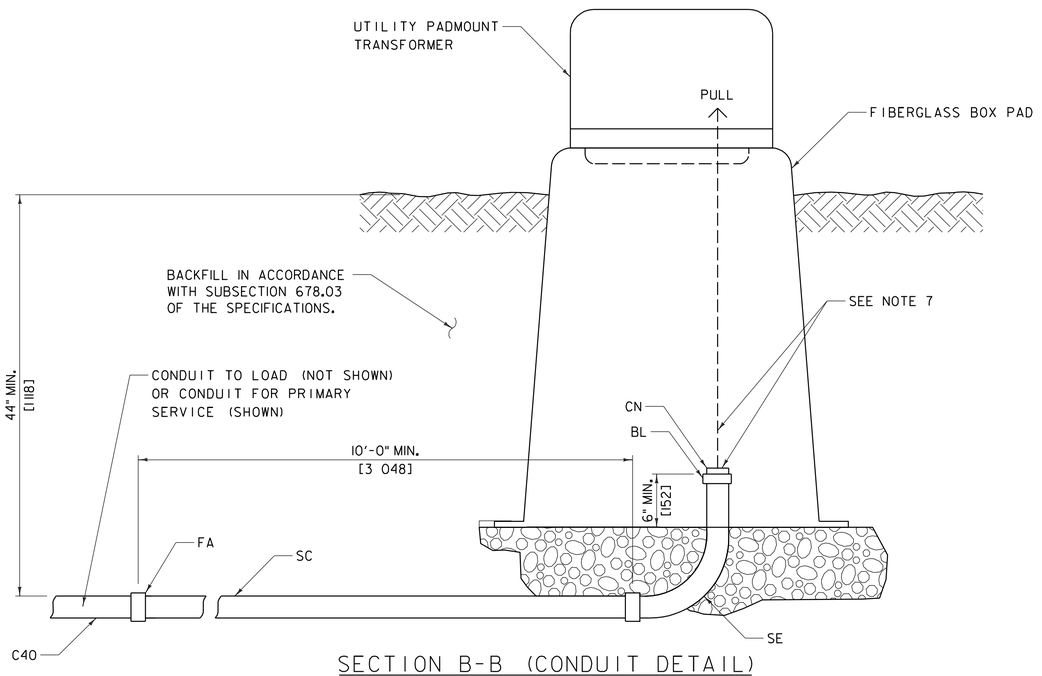
NOTES:

1. FIBERGLASS BOX PAD AND TRANSFORMER TO BE PROVIDED AND INSTALLED BY GMP. EXCAVATION, PREPARATION OF STONE PAD AND BACKFILL SHALL BE PERFORMED BY CONTRACTOR.
2. SET FIBERGLASS PAD TO PROVIDE ADEQUATE DRAINAGE AWAY FROM PAD. LOCATE THE FIBERGLASS PAD SO THAT IT SHALL BE ACCESSIBLE BY TRUCK.
3. TRANSFORMER SHALL BE SECURED TO ITS PAD USING 2-3/8"[60] BOLTS WITH APPROPRIATE WASHERS.
4. LEAVE SLACK IN PRIMARY AND SECONDARY CABLES IN OPEN CABLE SPACE.
5. EXPOSED STEEL CONDUIT TO BE BONDED TO GROUND GRID.
6. DIMENSIONS MAY VARY WITH MANUFACTURER.
7. ELBOW MUST BE ALIGNED TO ALLOW STRAIGHT PULL THROUGH BOX PAD OPENING.
8. A 90° ELBOW WITH 36"[914] RADIUS IS TYPICAL, HOWEVER, CONDITIONS MAY REQUIRE THAT A 45 ELBOW BE SPECIFIED.
9. PROVIDE SUFFICIENT CLEARANCE SO BOX PAD DOES NOT CONTACT ELBOW.

ITEM	MATERIAL
C40	PVC CONDUIT (SCH. 40)
FA	FEMALE ADAPTER
SE	STEEL ELBOW (STD. RADIUS)
CN	CHASE NIPPLE
SC	STEEL CONDUIT
BL	BONDING LOCKNUT



SECTION A-A (PAD DETAIL)



SECTION B-B (CONDUIT DETAIL)

FIBERGLASS PAD FOR SINGLE PHASE TRANSFORMER

NOT TO SCALE

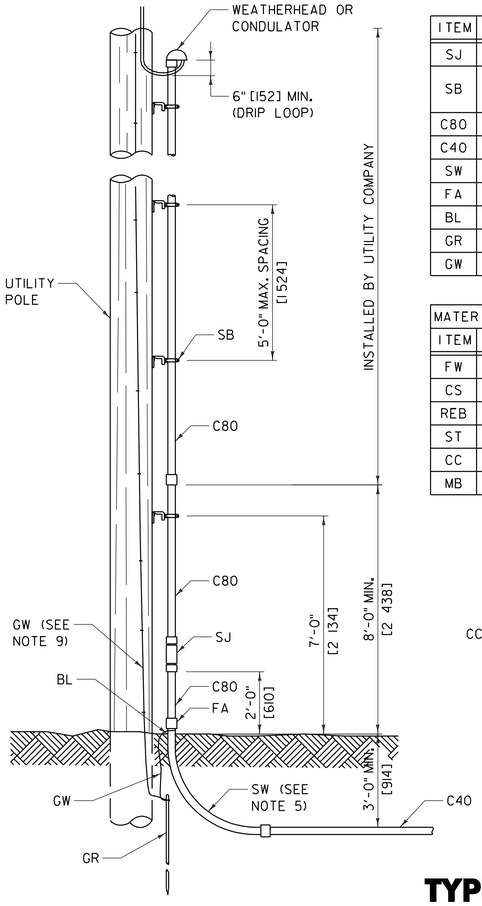
UNDERGROUND UTILITY DETAILS

PROJECT NAME: BRANDON
PROJECT NUMBER: NH 019-3(496)

FILE NAME: zb008s6-utydet.dgn
PROJECT LEADER: C. BEAN
DESIGNED BY: UTILITIES
PLOT DATE: 2/23/2017
DRAWN BY: CLD
CHECKED BY: UTILITIES
SHEET 220 OF 601

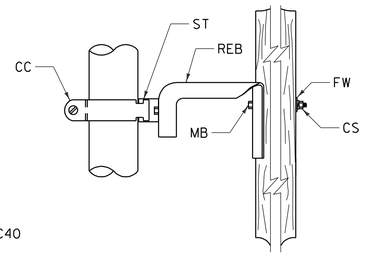
CLD 02-0448 MODEL: 7

ISSUED FOR CONSTRUCTION



ITEM	MATERIAL
SJ	SLIP JOINT
SB	STANDOFF BRACKET (ELECTRICAL) OR FLUSH BRACKET (SEE NOTE 3)
C80	CONDUIT (SCHEDULE 80)
C40	CONDUIT (SCHEDULE 40)
SW	90° STEEL SWEEP; 5'-0" [1 524] RADIUS
FA	FEMALE ADAPTER
BL	BONDING LUG
GR	GROUND ROD
GW	GROUND WIRE

MATERIAL FOR ONE STANDOFF BRACKET	
ITEM	MATERIAL
FW	FLAT WASHER 2"x2" [51x51]
CS	COIL SPRING WASHER
REB	RACK EXTENSION BRACKET
ST	STRUT (CUT TO LENGTH)
CC	CONDUIT CLAMP
MB	MACHINE BOLT 5/8" [16]



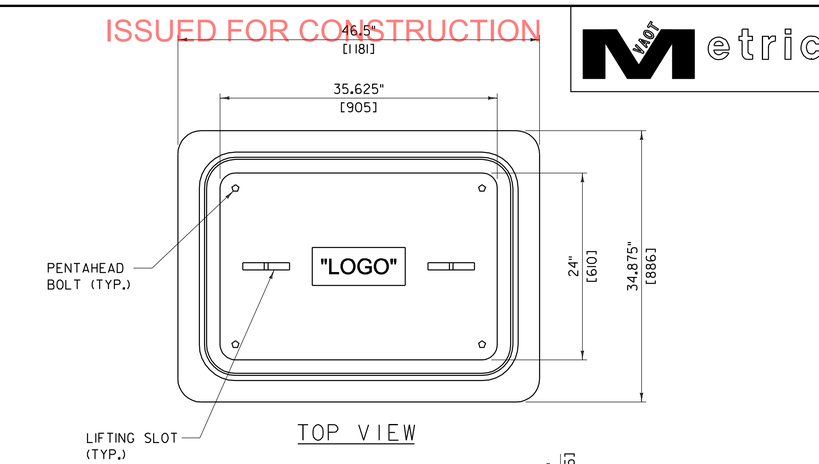
STANDOFF BRACKET DETAIL

NOTES:

1. THE CONTRACTOR SHALL CONTACT THE LOCAL UTILITY COMPANIES AND ADHERE TO ANY EQUIPMENT, PROCEDURE AND CRITERIA VARIATIONS WHICH PERTAIN. SEE SPECIAL PROVISIONS FOR THE UTILITY CONTACT. THE CONTRACTOR SHALL PROVIDE TO THE ENGINEER ALL SPECIFIC INFORMATION CONCERNING UTILITY REQUIREMENTS PRIOR TO THE PRECONSTRUCTION MEETING OR THE START OF WORK, WHICHEVER IS FIRST.
2. ALL CONSTRUCTION MUST COMPLY WITH THE NATIONAL ELECTRICAL CODE AND UTILITY COMPANY REQUIREMENTS.
3. THE CONTRACTOR IS RESPONSIBLE FOR PROVIDING ALL MATERIALS EXCEPT FOR BRACKETS WHICH ARE TO BE FURNISHED AND INSTALLED BY THE UTILITY COMPANIES. NOTE THAT THIS DETAIL DEPICTS STANDOFF BRACKETS FOR ELECTRICAL RISER. BRACKETS FOR TELEPHONE AND CATV RISERS SHALL BE FLUSH AGAINST THE POLE.
4. UTILITY COMPANIES TO INSTALL LOWEST BRACKET AT 7'-0" [2 134] ABOVE GRADE AND SPACE REMAINING BRACKETS APPROX. 5'-0" [1524] APART.
5. CONTRACTOR SHALL SWEEP CONDUIT UP 6" [152] FROM FACE OF POLE (ELECTRICAL) OR FLUSH TO POLE (TELEPHONE/ CATV), INSTALL SLIPJOINT, AND INSTALL SCHEDULE 80 PVC CONDUIT 8'-0" [2 438] MIN. ABOVE GRADE (TO FIRST BRACKET). INSTALL SLIP JOINT APPROXIMATELY 2/3 OPEN. UTILITY COMPANIES TO INSTALL REMAINING CONDUIT ON POLE.
6. ALL EXPOSED CONDUIT SHALL BE NEMA APPROVED PVC SCHEDULE 80.
7. ATTACH CONDUIT ON SIDE OF POLE AWAY FROM TRAFFIC WHEN POSSIBLE.
8. TERMINATE CONDUIT WITH CONDULATOR FOR PRIMARY CABLE OR WEATHERHEAD FOR SECONDARY CABLE.
9. UTILITY COMPANY SHALL PROVIDE GROUNDING WHERE NEEDED.
10. ON POLES 3/12 (21+428 RT) AND 5/7 (22+130 LT) CONTRACTOR TO PROVIDE WIRED CONDUIT FROM RISER POLES TO LOCATION FOR LIGHTING / TRAFFIC SIGNALS LOAD AS SHOWN ON THE PLANS. CONTRACTOR SHALL COORDINATE WITH UTILITY COMPANY TO DETERMINE REQUIRED CONDUCTOR SIZES. LENGTH OF CONDUCTORS SHALL INCLUDE LENGTH TO TOP OF WEATHERHEAD PLUS 48" [1219].
11. ALL WORK SHOWN ON THIS DETAIL SHALL BE INCIDENTAL TO APPLICABLE CONDUIT PAY ITEM.

TYPICAL RISER POLE DETAIL

NOT TO SCALE

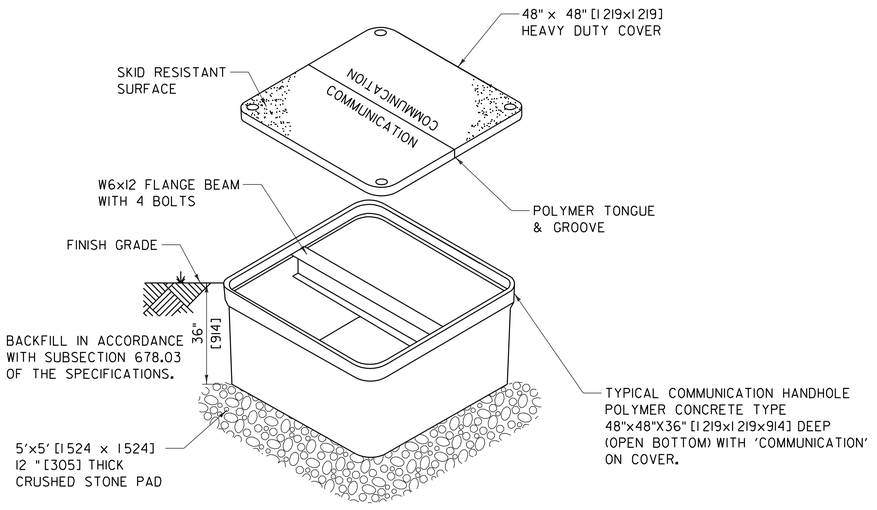


NOTES:

1. "LOGO" TO BE "ELECTRIC" OR "COMMUNICATION" PER USAGE.
2. CONTRACTOR TO PROVIDE AND INSTALL HANDHOLE AND COVER

HANDHOLE DETAIL

NOT TO SCALE

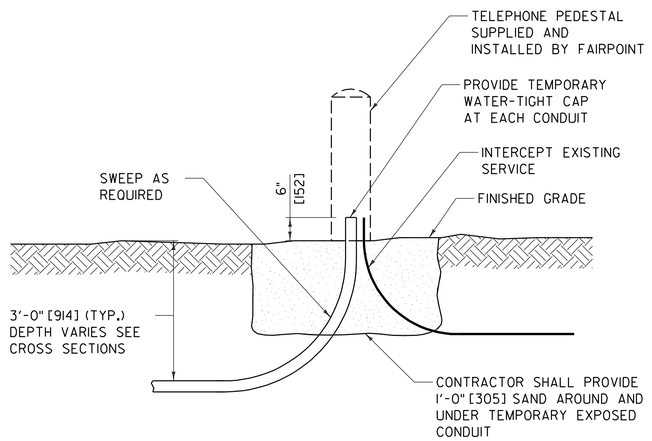


NOTES:

1. HANDHOLE AND COVER SUPPLIED AND INSTALLED BY COMCAST. EXCAVATION, PREPARATION OF STONE PAD AND BACKFILL SHALL BE PERFORMED BY THE CONTRACTOR.
2. PROVIDE 90 DEG. 36" [914] RADIUS FACTORY SWEEP FOR CONDUIT ENTERING JUNCTION BOX. CONDUIT SHALL BE BUNDLED.
3. A MINIMUM OF 12" [305] CRUSHED STONE PAD SHALL BE PLACED UNDER BOX AND EXTEND 6" [152] BEYOND THE PERIMETER OF BOX.
4. INSTALL SUCH THAT COVER IS APPROXIMATELY 1" [25] ABOVE FINISHED GRADE AND PROVIDE ADEQUATE DRAINAGE AWAY FROM BOX.

CATV JUNCTION BOX DETAIL

NOT TO SCALE



TELEPHONE PEDESTAL DETAIL

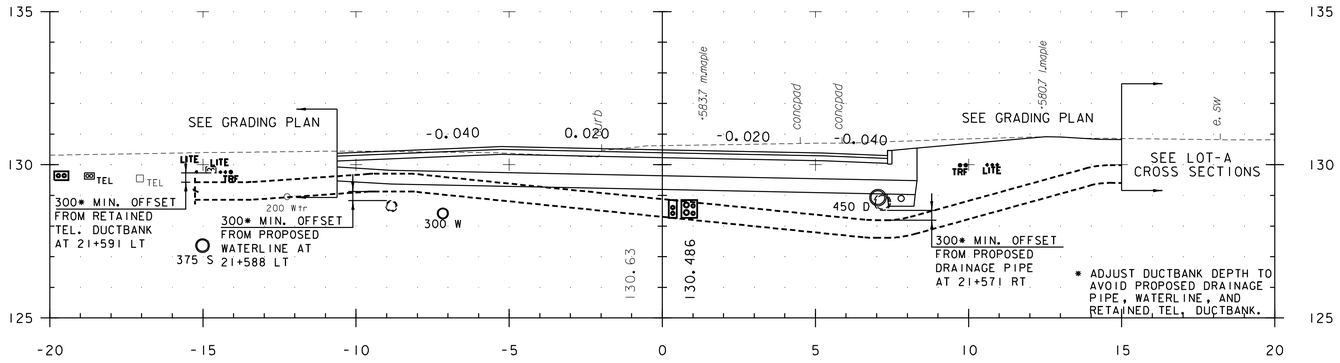
NOT TO SCALE

UNDERGROUND UTILITY DETAILS

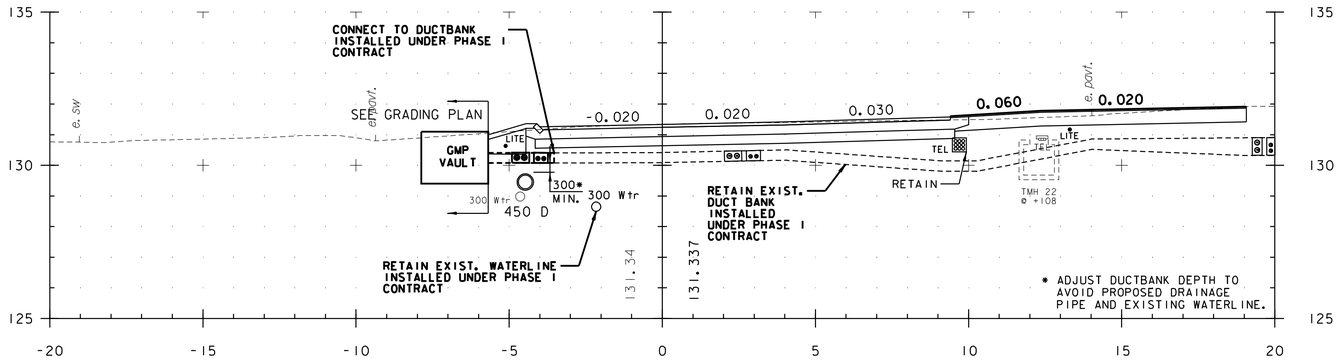
PROJECT NAME:	BRANDON
PROJECT NUMBER:	NH 019-3(496)

FILE NAME: zb008s6-utydet.dgn	PLOT DATE: 2/23/2017
PROJECT LEADER: C. BEAN	DRAWN BY: CLD
DESIGNED BY: UTILITIES	CHECKED BY: UTILITIES
	SHEET 221 OF 601

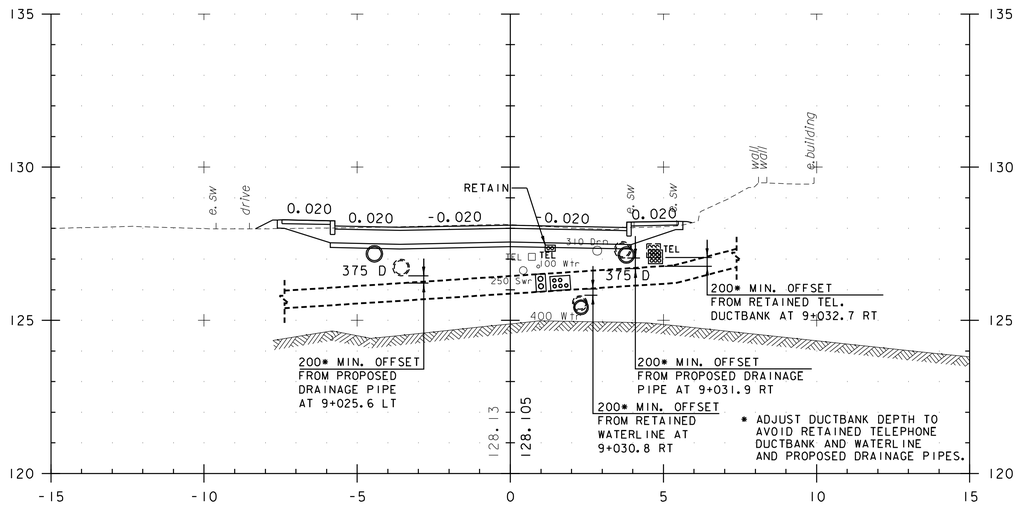
CLD 02-0448 MODEL: 8



21+580.0



30+111.0 (LOT-A)



9+030.0 (WEST SEMINARY STREET)

CRITICAL UTILITY CROSS SECTIONS

PROJECT NAME:	BRANDON
PROJECT NUMBER:	NH 019-3(496)
FILE NAME: zb008s6-utydet.dgn	PLOT DATE: 2/23/2017
PROJECT LEADER: C. BEAN	DRAWN BY: CLD
DESIGNED BY: UTILITIES	CHECKED BY: UTILITIES
	SHEET 222 OF 601

CLD 02-0448 MODEL: 9

ISSUED FOR CONSTRUCTION

VAOT Metric

VT STATE PLANE GRID N

20 + 735.617
BEGIN APPROACH

20 + 778.000
END APPROACH
BEGIN PROJECT
NH 019-3(496)

IRON PIN
GUY WIRE
32-1
32-1
FIRE STATION
FLAG POLE
GRAVEL
PAVED
STN.
DI
HVCTRL
HANDICAP SIGN
HYD.
GUY WIRE
S.L.40
STATE HWY BEGINS
SSMH
GV(4)
GUY POLE
20+660
US 7
20+680
20+700
20+720
20+740
20+760
20+780
20+800
20+815
GRASS ISLAND
AMERICAN LEGION
GRANITE CURB
SHRUBS
CONC. PAD
HANDICAP SIGN
GV HYD.
DELIN.
GR.CURB
DELIN.(2)
ST.35
STATE HWY ENDS
WSO
AERIAL E&T
GUY WIRE
M. MAPLE
M. ELM
M. BASSWOOD
M. POPLAR
S/M. WALNUTS
S. SPRUCES
WOODS/ LEDGE
M. MAPLES
PAVED DRIVE
2 SWF
LILAC
M. PINE
WOODS
S.CEDAR(6)
19
27
12' [3658]
0°
IRON PIPE
MATCH LINE 20+815

EXISTING POLE INSTALLED UNDER NH 019-3(495). UTILITY COMPANY TO REPLACE EXIST. ANCHORS WITH NEW ANCHORS.

POT 20+777.617 BK
POT 20+778.000 AHD =
EQ. = -0.383 m

LEGEND

- EXISTING POLE TO BE REMOVED BY UTILITY COMPANY
- NEW UTILITY POLE (WITH ANCHOR AND LIGHT DEPICTED)
- ## [####] X° — ## INDICATES LENGTH OF OVERALL LIGHT BRACKET ARM IN FEET AND [MILLIMETERS]. X° INDICATES ORIENTATION OF PROPOSED BRACKET ARM AS MEASURED IN DEGREES FROM A PERPENDICULAR TO THE US 7 CENTERLINE
- OHW — EXISTING OVERHEAD WIRES
- AERIAL E&T — NEW OVERHEAD LINES (ELECTRIC, TELEPHONE, CABLE TV)
- UT — EXISTING UNDERGROUND TELEPHONE TO BE REMOVED/ABANDONED
- RUT — EXISTING UNDERGROUND TELEPHONE TO BE RETAINED
- PUT — PROPOSED UNDERGROUND TELEPHONE
- UE — EXISTING UNDERGROUND ELECTRIC
- PUE — PROPOSED UNDERGROUND ELECTRIC
- UTV — EXISTING UNDERGROUND CABLE TV
- PUTV — PROPOSED UNDERGROUND CABLE TV
- PROPOSED UNDERGROUND DUCTBANK, CONCRETE ENCASED. XX = DUCTBANK ID. ARROWS INDICATE DIRECTION OF SECTION VIEW. REFER TO DUCTBANK SCHEDULES.

0 10 20 30
SCALE IN METERS

UTILITY RELOCATION PLAN 1

PROJECT NAME: BRANDON
PROJECT NUMBER: NH 019-3(496)

FILE NAME: zb008s6-uty.dgn
PROJECT LEADER: C. BEAN
DESIGNED BY: UTILITIES
PLOT DATE: 2/23/2017
DRAWN BY: CLD
CHECKED BY: UTILITIES
SHEET 223 OF 601

CLD 02-0448 MODEL:1

ISSUED FOR CONSTRUCTION

VAOT Metric

VT STATE PLANE GRID N

MATCH LINE 20+815

MATCH LINE 20+950

BM #3
TOP OF S.E. SIGN BASE BOLT
ELEV. = 142.979 m

10° [3048]
0°

40 + 070.000
LIMIT OF WORK

0 10 20 30
SCALE IN METERS

UTILITY RELOCATION PLAN 2

PROJECT NAME: BRANDON
PROJECT NUMBER: NH 019-3(496)

FILE NAME: zb008s6-uty.dgn
PROJECT LEADER: C. BEAN
DESIGNED BY: UTILITIES

PLOT DATE: 2/23/2017
DRAWN BY: CLD
CHECKED BY: UTILITIES
SHEET 224 OF 601

CLD 02-0448 MODEL: 2

ISSUED FOR CONSTRUCTION

VAOT Metric

VT STATE PLANE GRID

MATCH LINE 20+950

MATCH LINE 21+070

20+960 20+980 21+000 21+020 21+040 21+060

US 7

12' [3658] 0°

AERIAL E&T

16 24

15 23

13 22

PAVED WALK

CONC. CURB

CONC.

WD. WALL

WD. EDGING

GRAVEL

WOODS

1½SWF

2 SWF

HVCTRL

OHW

W

PW

CZ

WSO

SSMH

EMERGENCY HYD.

VEHICLES

PAVED

M.MAPLE

M.MAPLE(2)

IRON PIPE

STUMP

STN. WALL

S.MAPLE(2)

L.MAPLE

SHRUB

S.CR.APPLE

LIGHT

CONC.

S. SPRUCE

GUY WIRE

S. B.ELDERS

M. B.ELDERS

L. MAPLE

S. MAPLE

S. APPLE

M. B.NUT

S. ASH

WD. RET. WALL

GARAGE

0 10 20 30

SCALE IN METERS

CLD 02-0448 MODEL: 3

UTILITY RELOCATION PLAN 3

PROJECT NAME: BRANDON

PROJECT NUMBER: NH 019-3(496)

FILE NAME: zb008s6-uty.dgn
PROJECT LEADER: C. BEAN
DESIGNED BY: UTILITIES

PLOT DATE: 2/23/2017
DRAWN BY: CLD
CHECKED BY: UTILITIES
SHEET 225 OF 601

ISSUED FOR CONSTRUCTION

VAOT Metric

VT STATE PLANE GRID N

MATCH LINE 21+070

MATCH LINE 21+210

US 7

21+080 21+100 21+120 21+140 21+160 21+180 21+200

BARN
SHRUB
CONC. PAD
FLAG POLE
M. MAPLE
S.CHERRY(2)
LILAC
PAVED DRIVE
STONE
S.ELM
M.APPLE
SHRUBS(3)
M.PINE
L.MAPLE
SHRUB
I½SWF
GARDEN
3 SWF
S. APPLE
LIGHT
S. SPRUCE
PAVED DRIVE
MRBL CURB
S. ASH
M. APPLE
2 SWF
GRAVEL
SHRUB
S. MAPLES
ROSEBELLE'S B&B
LIGHTS
M. HEMLOCK
IRON PIN
HAND RAIL
PAVED WALK
SHRUBS(4)
HVCTRL
S.SPRUCE
M.MAPLE
MRBL END
SHRUBS(2)
GUY WIRE
M.WALNUT
SHRUBS(2)
GRAVEL DRIVE
LILAC
CONC. CURB
SHRUBS
PAVED WALKS
WET AREA
STREAM
WOODS
CONC. PAD
GAR.
I½SWF
PAVED DRIVE
M.STUMP
CONC. WALK
SHRUBS
LILACS
MRBL CURB
PAVED
GRAVEL DRIVE
BIT. CURB
M. MAPLE
GARAGE
TRAV. PT. #2
VTGS DISK IN CONC. MON.
"GRIFFIN 1997"

AERIAL E&T
OHW
PW
CZ
W
S
WSO
FN
WW
MHO

10' [3048]
0°

SCALE IN METERS
0 10 20 30

CLD 02-0448 MODEL: 4

UTILITY RELOCATION PLAN 4

PROJECT NAME: BRANDON
PROJECT NUMBER: NH 019-3(496)

FILE NAME: zb008s6-uty.dgn
PROJECT LEADER: C. BEAN
DESIGNED BY: UTILITIES

PLOT DATE: 2/23/2017
DRAWN BY: CLD
CHECKED BY: UTILITIES
SHEET 226 OF 601

ISSUED FOR CONSTRUCTION

VT STATE PLANE GRID

UTILITY RELOCATION PLAN 5

PROJECT NAME:	BRANDON
PROJECT NUMBER:	NH 019-3(496)

FILE NAME: zb008s6-uty.dgn
PROJECT LEADER: C. BEAN
DESIGNED BY: UTILITIES

PLOT DATE: 2/23/2017
DRAWN BY: CLD
CHECKED BY: UTILITIES
SHEET 227 OF 601

0 10 20 30
SCALE IN METERS

CLD 02-0448 MODEL: 5

ISSUED FOR CONSTRUCTION

VT STATE PLANE GRID N

VAOT Metric

MATCH LINE 21+410

INTERCEPT EXISTING UNDERGROUND TELEPHONE DUCTBANK AND EXTEND TO NEW RISER POLE (4/13). WORK SHALL BE COORDINATED WITH FAIRPOINT CONTRACTORS DUE TO EXISTING ACTIVE FIBER IN THE CONDUIT.

TELEPHONE RISER POLE (4/13)

MATCH LINE 21+350

MATCH LINE 36+070

36 + 120.000
LIMIT OF WORK

0 10 20 30
SCALE IN METERS

UTILITY RELOCATION PLAN 6

PROJECT NAME: BRANDON
PROJECT NUMBER: NH 019-3(496)

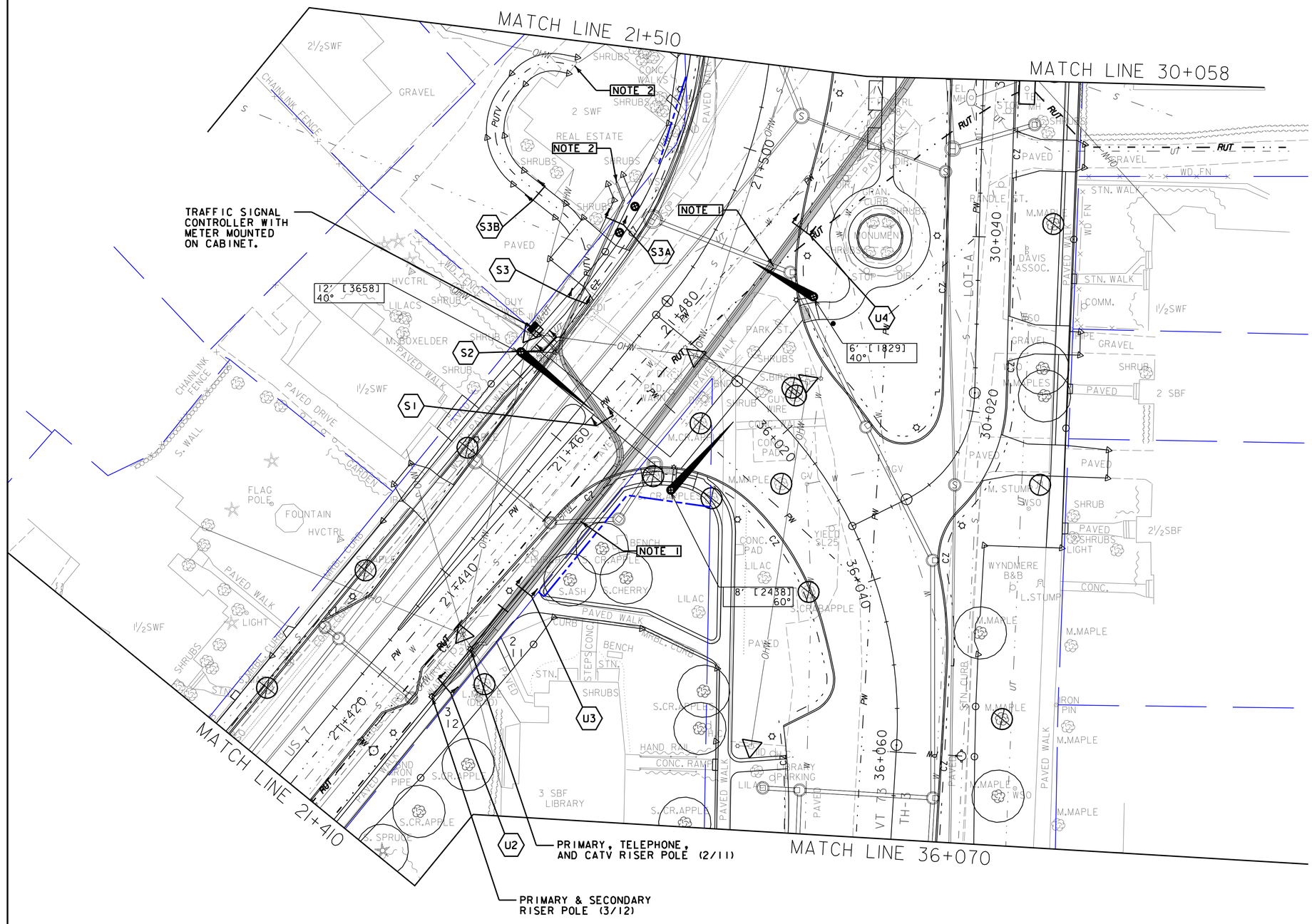
FILE NAME: zb008s6-uty.dgn
PROJECT LEADER: C. BEAN
DESIGNED BY: UTILITIES

PLOT DATE: 2/23/2017
DRAWN BY: CLD
CHECKED BY: UTILITIES
SHEET 228 OF 601

CLD 02-0448 MODEL: 6

ISSUED FOR CONSTRUCTION

VAOT Metric


MATCH LINE 21+510
MATCH LINE 30+058
MATCH LINE 21+410
MATCH LINE 36+070
TRAFFIC SIGNAL CONTROLLER WITH METER MOUNTED ON CABINET.
NOTE 2
NOTE 1
S1
S2
S3
S3A
S3B
U2
U3
U4
PRIMARY, TELEPHONE, AND CATV RISER POLE (2/11)
PRIMARY & SECONDARY RISER POLE (3/12)
12' [3658] 40°
6' [1829] 40°
8' [2438] 60°
21+460
21+500
21+480
21+440
21+420
30+040
30+020
36+020
36+040
36+060
US 7
VT 78
TH-5
LOT-A
CHAINLINK FENCE
GRAVEL
PAVED
PAVED WALK
PAVED DRIVE
REAL ESTATE
FLAG POLE
FOUNTAIN
LIGHT
SHRUBS
LILACS
M.BOXELDER
S.MAPLE
M.MAPLE
S.CRABAPPLE
S.ASH
S.CHERRY
S.SPRUCE
BENCH
STN.
STN. WALK
CONC. WALKS
CONC. PAD
CONC. CURB
STN. CURB
HAND RAIL
CONC. RAMP
STEPS
3 SBF LIBRARY
LIBRARY of PARKING
DAVIS ASSOC.
WYNDMERE B&B
M. STUMP
L.STUMP
RANDLE CT.
PARK ST.
COMM.
IRON PIN
WD. FN.
2 SBF
2½SBF
1½SWF
2 SWF
2½SWF
OHW
PW
RUT
UT
SPECIAL PROVISION (CHANGING ELEVATION OF UTILITY MANHOLE)
30+057.1 RT (TEL.)

SPECIAL PROVISION (REMOVE TELEPHONE VAULT)
30+055.9 LT

NOTES:

1. ADJUST DUCTBANK DEPTH TO AVOID PROPOSED DRAINAGE PIPES AT 21+454 RT AND 21+489 RT. SEE ROADWAY CROSS SECTIONS.
2. CONTRACTOR SHALL PROVIDE AND INSTALL CONDUIT FOR CATV AND TELEPHONE SERVICES TO BUILDING. UTILITY COMPANIES WILL PROVIDE SERVICE IN CONDUIT AND INTERCEPT EXISTING SERVICE AT BUILDING.

0 10 20 30
SCALE IN METERS

UTILITY RELOCATION PLAN 7

PROJECT NAME: BRANDON
PROJECT NUMBER: NH 019-3(496)

FILE NAME: zb008s6-uty.dgn
PROJECT LEADER: C. BEAN
DESIGNED BY: UTILITIES
PLOT DATE: 2/23/2017
DRAWN BY: CLD
CHECKED BY: UTILITIES
SHEET 229 OF 601

CLD 02-0448 MODEL: 7

ISSUED FOR CONSTRUCTION

VAOT Metric

VT STATE PLANE GRID

SPECIAL PROVISION (REMOVE TELEPHONE VAULT)
21+593.5 LT
30+107.7 RT

SPECIAL PROVISION (TELEPHONE VAULT)
21+603.8 LT

SPECIAL PROVISION (ELECTRIC VAULT)
30+111.2 LT
30+112.2 LT

FIBERGLASS PAD FOR
SINGLE PHASE TRANSFORMER
(PROVIDED AND INSTALLED BY GMP)
35+015.7 RT

CATV JUNCTION BOX
(PROVIDED AND INSTALLED BY COMCAST)
30+109.8 LT
35+017.7 RT

TELEPHONE PEDESTAL
(PROVIDED AND INSTALLED BY FAIRPOINT)
35+052.7 RT

SPECIAL PROVISION (UTILITY HANDHOLE)
35+045.1 LT (ELEC.)
35+046.4 LT (TEL.)

NOTES:

1. A BLOWUP DETAIL OF CONDUIT LAYOUT AT THE INTERSECTION OF UNION STREET AND US 7 HAS BEEN PROVIDED (NEXT SHEET) DUE TO THE COMPLEXITY OF THE UTILITY ROUTES IN THIS AREA.

2. ADJUST DUCTBANK DEPTH TO AVOID PROPOSED DRAINAGE PIPE AT 30+080 LT. SEE ROADWAY CROSS SECTIONS.

3. ADJUST DUCTBANK DEPTH TO PASS UNDER A PROPOSED DRAINAGE PIPE, OVER A PROPOSED WATERLINE, AND UNDER AN EXISTING TELEPHONE DUCTBANK. SEE CRITICAL UTILITY CROSS SECTION 21+580 FOR A REPRESENTATION OF CROSSING. ALL MINIMUM OFFSETS BETWEEN DUCTBANKS AND DRAINAGE AND OTHER UTILITIES SHALL BE MAINTAINED PER THE GENERAL NOTES. REFER TO GENERAL NOTES FOR MINIMUM PVC DUCT BEND RADII.

4. ADJUST DUCTBANK DEPTH TO PASS OVER A PROPOSED DRAINAGE PIPE. SEECRITICAL UTILITY CROSS SECTION 30+111.0 FOR A REPRESENTATION OF CROSSING. ALL MINIMUM OFFSETS BETWEEN DUCTBANKS, DRAINAGE, AND OTHER UTILITIES SHALL BE MAINTAINED PER THE GENERAL NOTES. REFER TO THE GENERAL NOTES FOR MINIMUM PVC DUCT BEND RADII.

5. LOCATE AND CONNECT TO TERMINATED DUCTBANK U6 INSTALLED UNDER PHASE I CONSTRUCTION.

6. NEW UNDERGROUND SECONDARY ELECTRIC, CATV, AND TELEPHONE TO SERVICE BUILDING. EXISTING ELECTRIC AND TELEPHONE SERVICE IS UNDERGROUND FROM UTILITY POLE AT 35+045 LT. LOCATION OF EXISTING CATV SERVICE TO BUILDING IS UNKNOWN. FOR CATV, CONTRACTOR SHALL PROVIDE CONDUIT TO BUILDING. COMCAST SHALL PROVIDE SERVICE IN CONDUIT AND COORDINATE/PROVIDE SERVICE FROM CONDUIT TO INTERFACE BOX. CONTRACTOR SHALL PROVIDE AND INSTALL (2) UTILITY HANDHOLES; (1) FOR TELEPHONE, (1) FOR ELECTRIC, TO INTERCEPT EXISTING UNDERGROUND SERVICES AND PROVIDE SPLICE POINTS FOR THE UTILITIES.

7. EXISTING POLE AT 35+052.7 RT HAS AERIAL TELEPHONE SERVICE TO RITE AID AND A DROP TO UNDERGROUND TELEPHONE SERVICE TO HANNAFORD. FAIRPOINT SHALL REMOVE THE POLE AND OVERHEAD SERVICE. THERE IS ALSO AERIAL SECONDARY ELECTRIC FROM RITE AID BUILDING TO THE POLE WITH DROP TO LIGHTED SIGN. FAIRPOINT SHALL COORDINATE WITH PROPERTY OWNER TO REMOVE THAT LINE. CONTRACTOR SHALL INSTALL TELEPHONE CONDUIT FROM NEW TELEPHONE VAULT AT 21+603.8 LT TO NEW PEDESTAL AT 35+052.7 RT TO INTERCEPT EXISTING HANNAFORD UNDERGROUND SERVICE.

8. CONTRACTOR SHALL PROVIDE TELEPHONE CONDUIT FROM NEW TELEPHONE VAULT AT 21+603.8 LT TO RITE AID BUILDING. TRANSITION UNDERGROUND TO NEW RISER WITH WEATHERHEAD ON SOUTHEAST CORNER OF BUILDING. FAIRPOINT SHALL PROVIDE SERVICE IN CONDUIT AND CONNECT TO EXISTING SERVICE AT OUTSIDE OF BUILDING. CONTRACTOR SHALL PROVIDE SECONDARY ELECTRIC CONDUIT FROM SAME CORNER OF BUILDING TO LIGHTED RITE AID SIGN. CONTRACTOR SHALL CONNECT CONDUIT WITH A SECOND RISER WITH WEATHERHEAD INSTALLED ADJACENT TO TELEPHONE RISER. PROPERTY OWNER SHALL BE RESPONSIBLE FOR INSTALLING SERVICE IN CONDUIT AND CONNECTING SERVICE TO LIGHT AND TO EXISTING ELECTRIC SERVICE IN BUILDING.

9. NOTE THAT ELECTRICAL DUCTBANK CONFIGURATION SHALL TRANSITION FROM TYPICAL AS SHOWN ON DUCT BANK SCHEDULES TO CONFIGURATION DEPICTED ON DUAL SHALLOW VAULT DETAILS AS DUCTBANK APPROACHES VAULT ENTRY POINTS.

SEE PLAN 8A

SEE PLAN 8C

SEE PLAN 8B

MATCH LINE 21+615

MATCH LINE 30+149

MATCH LINE 21+510

MATCH LINE 30+058

PRIMARY & TELEPHONE RISER POLE (10-2)

PRIMARY, TELEPHONE & CATV RISER POLE (10-1)

SECONDARY, TELEPHONE & CATV RISER POLE (10-3A)

35 + 066.000
LIMIT OF WORK

SPLIT BOTTOM TELEPHONE VAULT

LIGHTING PANELBOARD WITH METER

TRAFFIC SIGNAL CONTROLLER

PAD-MOUNTED SINGLE PHASE TRANSFORMER

CATV JUNCTION BOX

CATV JUNCTION BOX
DUAL SHALLOW ELECTRIC VAULTS
SEE NOTE 9

UNDERGROUND CATV DUCTBANK TO BE LOCATED ADJACENT TO EXISTING TELEPHONE DUCTBANK (150 MIN. OFFSET). EXISTING TELEPHONE CONDUIT AND CABLE SHALL BE RETAINED.

EXISTING RISER POLE (40T/2/18/1) FOR EXISTING UNDERGROUND TELEPHONE AND NEW UNDERGROUND CATV

BM #6 (STA 21+600.3 RT)
USC & GS STANDARD DISC
IN CONC MONUMENT
STAMPED BRANDON 1955
ELEV. = 131.180 m

0 10 20 30
SCALE IN METERS

UTILITY RELOCATION PLAN 8

PROJECT NAME: BRANDON
PROJECT NUMBER: NH 019-3(496)

FILE NAME: zb008s6-uty.dgn
PROJECT LEADER: C. BEAN
DESIGNED BY: UTILITIES

PLOT DATE: 2/23/2017
DRAWN BY: CLD
CHECKED BY: UTILITIES
SHEET 230 OF 601

CLD 02-0448 MODEL: 8

ISSUED FOR CONSTRUCTION

VAOT Metric

CONTRACTOR TO SUPPLY AND INSTALL NEW SPLIT-BOTTOM VAULT OVER EXISTING TELEPHONE CONDUITS. COORDINATE WITH FAIRPOINT CONTRACTOR FOR INSTALLATION. VAULT SHALL INCLUDE RACKING, LADDER STEP, AND MH COVER LABELED 'TELEPHONE' PROVIDED BY A FAIRPOINT-APPROVED SUPPLIER. CONTRACTOR TO INSTALL NEW CONDUIT DUCTBANK U10 TO VAULT. EXISTING ACTIVE DUCTBANK TO UNION STREET AND EXISTING VAULT AT 21+593.1 LT MUST BE PROTECTED AND REMAIN ACTIVE UNTIL NEW VAULT IS INSTALLED AND SERVICE IS TRANSFERRED TO NEW UNION STREET DUCTBANK U10. EXISTING DUCTBANK TO CARVER STREET IS TO BE RETAINED AND PASS THROUGH NEW VAULT. EXISTING ACTIVE DUCTBANK TO BRANDON CONGREGATIONAL CHURCH AT 21+632 LT IS TO BE RETAINED FROM THE NEW VAULT TO THE BUILDING. FAIRPOINT TO TRANSFER ALL UNION STREET SERVICES AND SPLICE EXISTING SERVICE TO CHURCH AT VAULT.

(6) 4" TELEPHONE

LIGHTING PANELBOARD WITH METER

TRAFFIC SIGNAL CONTROLLER

(2) 4" PVC CONDUIT (1 SPARE) TO METER FOR LIGHTING/TRAFFIC SIGNALS (SEE LIGHTING PLANS)

PAD-MOUNTED SINGLE PHASE UTILITY TRANSFORMER TO SERVICE STREET LIGHTING AND TRAFFIC SIGNALS.

(2) 3" PRIMARY

CATV JUNCTION BOX

(4) 4" CATV
(2) FROM JUNCTION BOX AT 30+109.8 LT
(2) TO CARVER STREET

(2) 4" CATV

(2) 6" PRIMARY,
(6) 4" TELEPHONE,
(2) 4" CATV

(2) 4" CATV,
(2) 6" PRIMARY,
(2) 3" PRIMARY

(2) 4" CATV

U9

U10

U13

U7

VT STATE PLANE GRID N

UNION STREET

35+020

0 1 2 3 4 5
SCALE IN METERS

UNION STREET INTERSECTION UTILITY LAYOUT

PROJECT NAME: BRANDON
PROJECT NUMBER: NH 019-3(496)

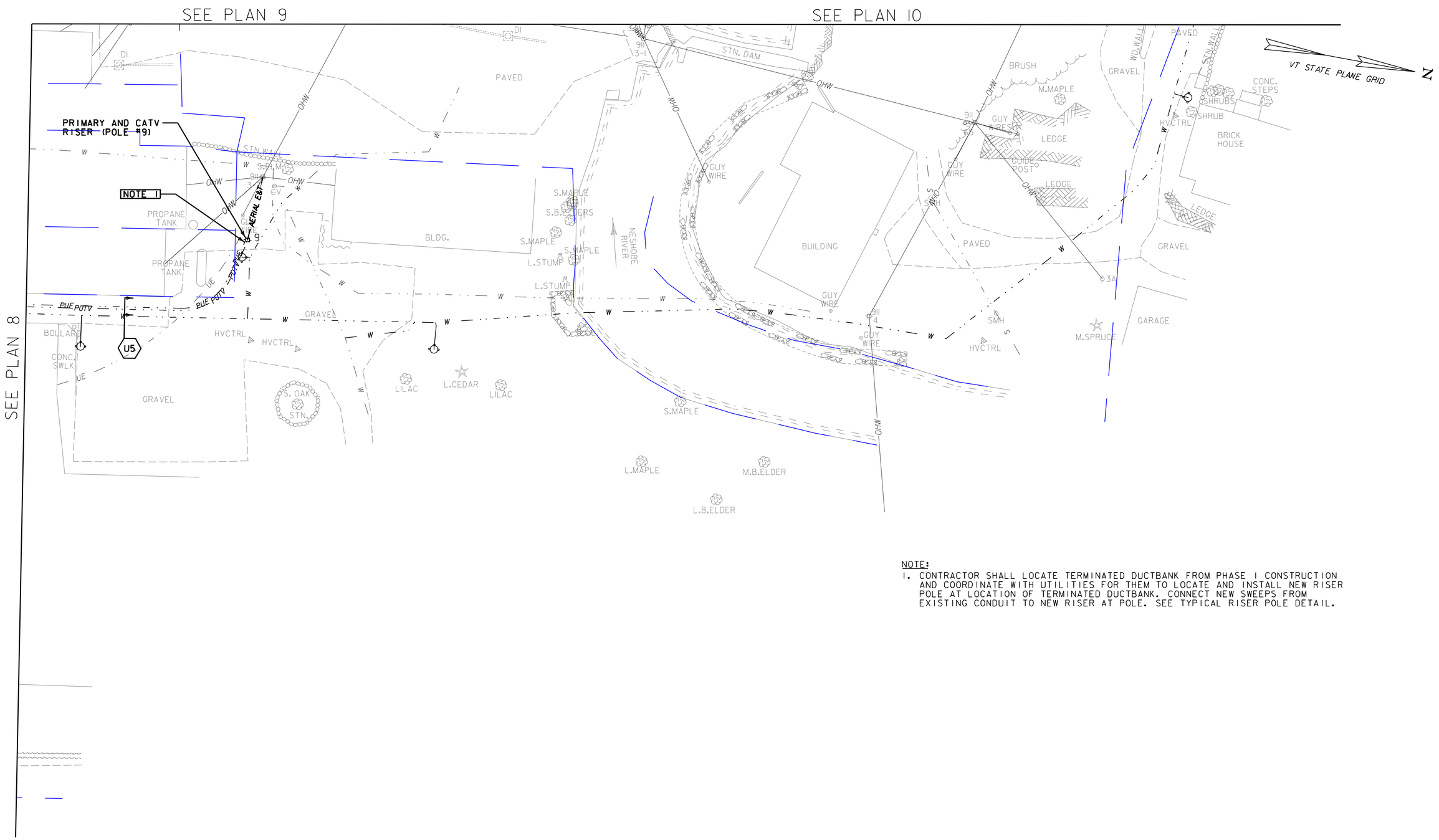
FILE NAME: zb008s6-uty.dgn
PROJECT LEADER: C. BEAN
DESIGNED BY: UTILITIES

PLOT DATE: 2/23/2017
DRAWN BY: CLD
CHECKED BY: UTILITIES
SHEET 231 OF 601

CLD 02-0448 MODEL: 8.BU

ISSUED FOR CONSTRUCTION

VAOT Metric



NOTE:

1. CONTRACTOR SHALL LOCATE TERMINATED DUCTBANK FROM PHASE I CONSTRUCTION AND COORDINATE WITH UTILITIES FOR THEM TO LOCATE AND INSTALL NEW RISER POLE AT LOCATION OF TERMINATED DUCTBANK. CONNECT NEW SWEEPS FROM EXISTING CONDUIT TO NEW RISER AT POLE. SEE TYPICAL RISER POLE DETAIL.

0 10 20 30

SCALE IN METERS

UTILITY RELOCATION PLAN 8A

PROJECT NAME: BRANDON

PROJECT NUMBER: NH 019-3(496)

FILE NAME: zb008s6-uty.dgn
PROJECT LEADER: C. BEAN
DESIGNED BY: UTILITIES

PLOT DATE: 2/23/2017
DRAWN BY: CLD
CHECKED BY: UTILITIES
SHEET 232 OF 601

CLD 02-0448 MODEL: 8A

ISSUED FOR CONSTRUCTION

VAOT Metric

37 + 070.000
LIMIT OF WORK

34 + 210.000
LIMIT OF WORK

VT STATE PLANE GRID N

37+080
37+060 ROSSITER ST
37+040
37+020

APPROX. EXIST. ROW

CARVER ST.
ROSSITER ST.

CARVER ST

34+240
34+220
34+200
34+180
34+160
34+140
TH-42 34+120
34+100

SEE PLAN 8

SCALE IN METERS
0 10 20 30

UTILITY RELOCATION PLAN 8B

PROJECT NAME: BRANDON
PROJECT NUMBER: NH 019-3(496)

FILE NAME: zb008s6-uty.dgn
PROJECT LEADER: C. BEAN
DESIGNED BY: UTILITIES

PLOT DATE: 2/23/2017
DRAWN BY: CLD
CHECKED BY: UTILITIES
SHEET 233 OF 601

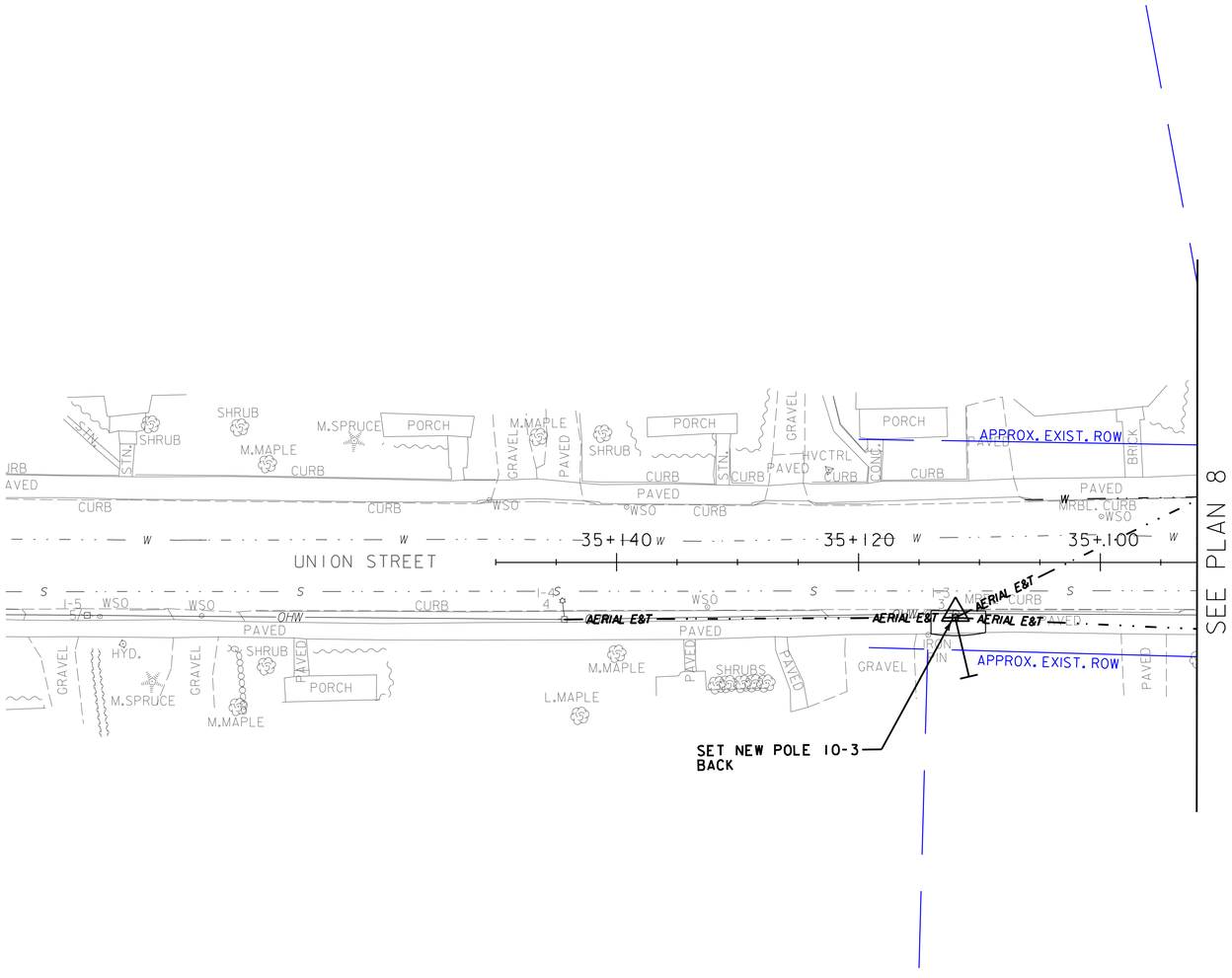
CLD 02-0448 MODEL: 8B

ISSUED FOR CONSTRUCTION

VAOT Metric

VT STATE PLANE GRID

N



0 10 20 30

SCALE IN METERS

UTILITY RELOCATION PLAN 8C

PROJECT NAME: BRANDON
PROJECT NUMBER: NH 019-3(496)

FILE NAME: zb008s6-uty.dgn
PROJECT LEADER: C. BEAN
DESIGNED BY: UTILITIES

PLOT DATE: 2/23/2017
DRAWN BY: CLD
CHECKED BY: UTILITIES
SHEET 234 OF 601

CLD 02-0448 MODEL: 8C

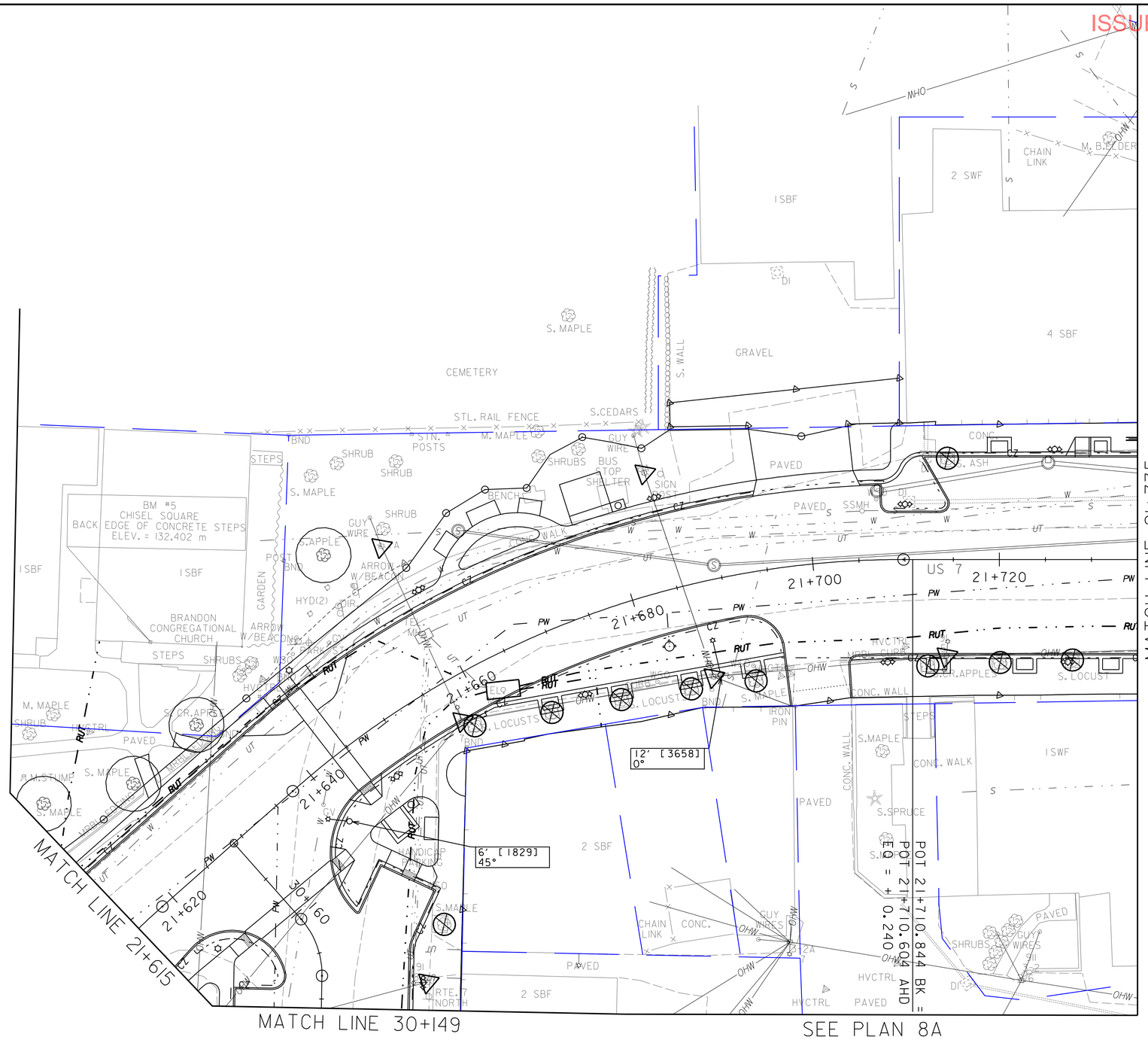
ISSUED FOR CONSTRUCTION

VAOT Metric

VT STATE PLANE GRID N

SPECIAL PROVISION (REMOVE TELEPHONE VAULT)
21+658.2 LT

SPECIAL PROVISION (CHANGING ELEVATION OF UTILITY MANHOLE)
21+663.0 RT (TEL.)



SCALE IN METERS 0 10 20 30

UTILITY RELOCATION PLAN 9

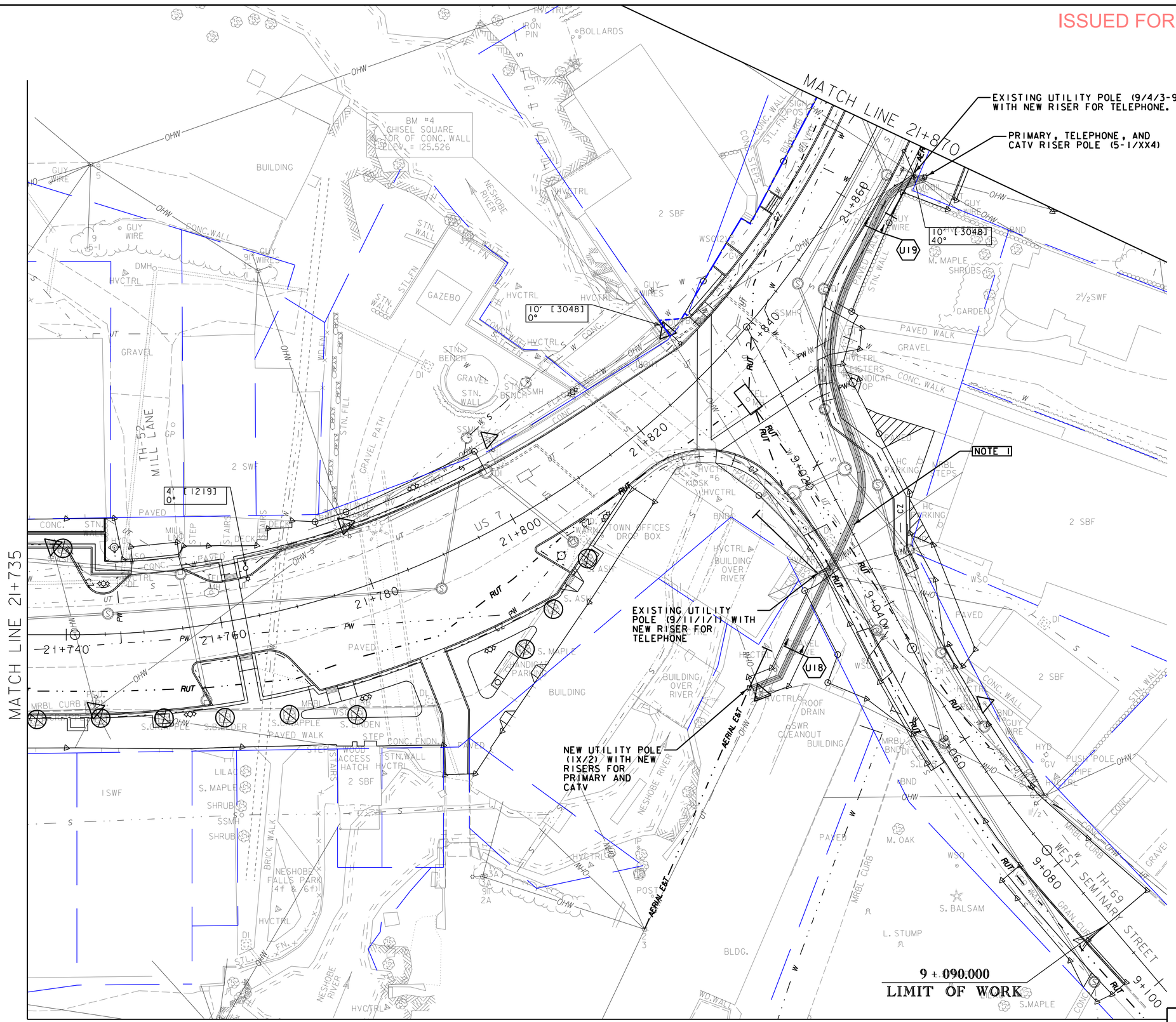
PROJECT NAME: BRANDON
PROJECT NUMBER: NH 019-3(496)

FILE NAME: zb008s6-uty.dgn
PROJECT LEADER: C. BEAN
DESIGNED BY: UTILITIES
PLOT DATE: 2/23/2017
DRAWN BY: CLD
CHECKED BY: UTILITIES
SHEET 235 OF 601

CLD 02-0448 MODEL: 9

ISSUED FOR CONSTRUCTION

VAOT Metric



SPECIAL PROVISION (REMOVE TELEPHONE VAULT)
21+759.3 LT

SPECIAL PROVISION
(CHANGING ELEVATION OF UTILITY MANHOLE)
21+832.5 RT (TEL.)

NOTES:

1. ADJUST DUCTBANK DEPTH TO PASS UNDER EXISTING TELEPHONE DUCTBANKS, UNDER TWO PROPOSED DRAINAGE PIPES, AND OVER AN EXISTING WATERLINE. SEE CRITICAL UTILITY CROSS SECTION 9+030 FOR A REPRESENTATION OF CROSSING. REFER TO GENERAL NOTES FOR MINIMUM PVC DUCT BEND RADII.

2. EXISTING ABANDONED TELEPHONE VAULTS AT 21+804.2 LT AND 21+837.4 LT TO BE REMOVED UNDER PROJECT BHF 019-3(58).

0 10 20 30
SCALE IN METERS

UTILITY RELOCATION PLAN 10

PROJECT NAME: BRANDON
PROJECT NUMBER: NH 019-3(496)

FILE NAME: zb008s6-uty.dgn
PROJECT LEADER: C. BEAN
DESIGNED BY: UTILITIES
PLOT DATE: 2/23/2017
DRAWN BY: CLD
CHECKED BY: UTILITIES
SHEET 236 OF 601

CLD 02-0448 MODEL: 10

ISSUED FOR CONSTRUCTION

VAOT Metric

VT STATE PLANE GRID

N

MATCH LINE 21+870

MATCH LINE 21+995

BRIGGS LANE TH #54

PROSPECT ST

US 7

VT 73

21+880 21+900 21+920 21+940 21+960 21+980

8+020 8+040 8+060

8 + 060.000
LIMIT OF WORK

GAS STATION

CHURCH

ST. THOMAS EPISCOPAL CHURCH

BRICK HOUSE

BARN

GARDEN

GRAVEL

PAVED

SCALE IN METERS 0 10 20 30

UTILITY RELOCATION PLAN II

PROJECT NAME: BRANDON
PROJECT NUMBER: NH 019-3(496)

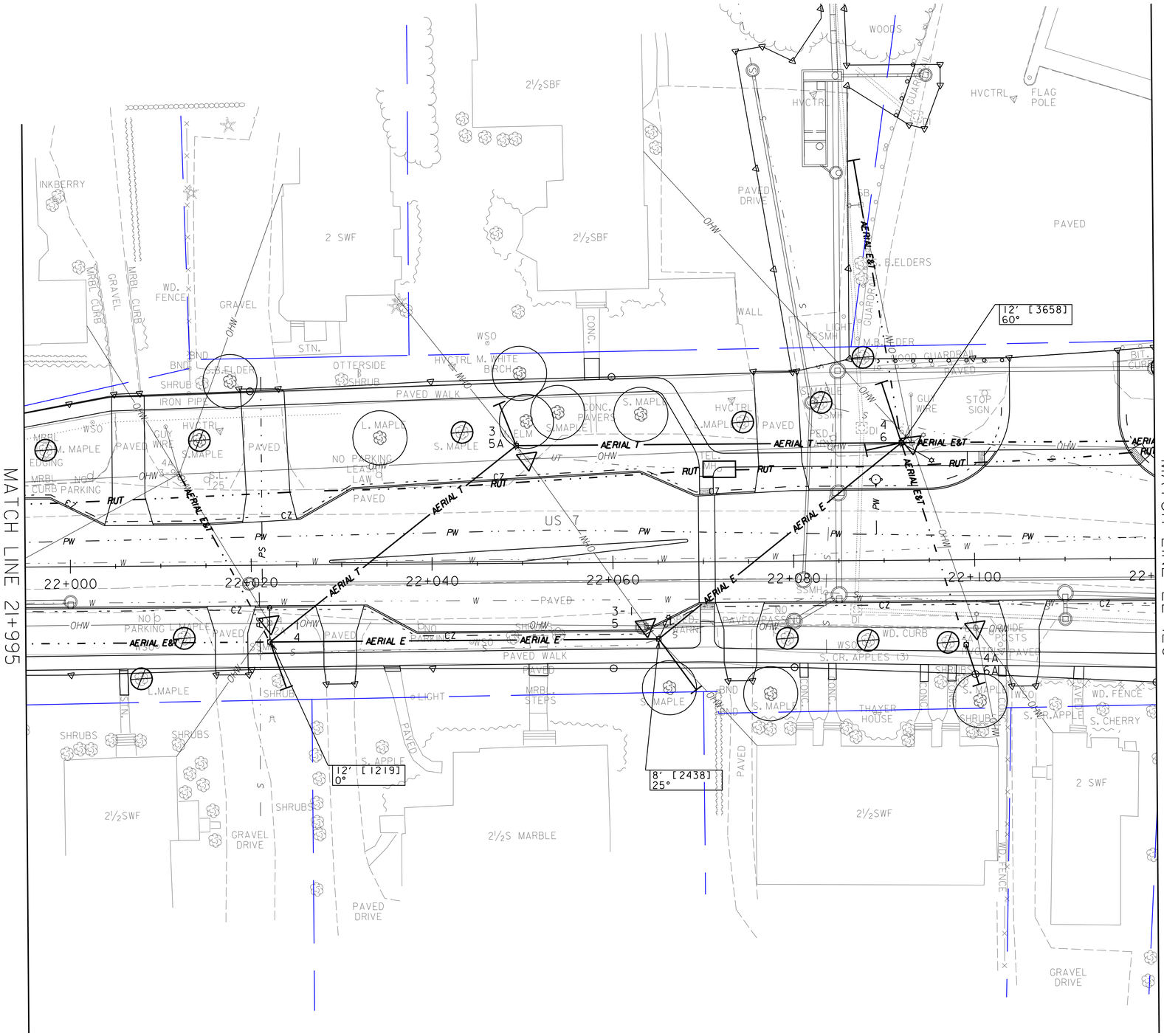
FILE NAME: zb008s6-uty.dgn
PROJECT LEADER: C. BEAN
DESIGNED BY: UTILITIES

PLOT DATE: 2/23/2017
DRAWN BY: CLD
CHECKED BY: UTILITIES
SHEET 237 OF 601

CLD 02-0448 MODEL: II

ISSUED FOR CONSTRUCTION

VAOT Metric



SPECIAL PROVISION (CHANGING ELEVATION OF UTILITY MANHOLE)
22+071.8 LT (TEL.)

VT STATE PLANE GRID
N

0 10 20 30
SCALE IN METERS

UTILITY RELOCATION PLAN 12

PROJECT NAME:	BRANDON
PROJECT NUMBER:	NH 019-3(496)

FILE NAME: zb0008s6-uty.dgn	PLOT DATE: 2/23/2017
PROJECT LEADER: C. BEAN	DRAWN BY: CLD
DESIGNED BY: UTILITIES	CHECKED BY: UTILITIES
	SHEET 238 OF 601

CLD 02-0448 MODEL: 12

ISSUED FOR CONSTRUCTION

VAOT Metric

VT STATE PLANE GRID

N

TEMPORARY TRAFFIC BARRIER AND ATTENUATORS
(INCIDENTAL TO TRAFFIC CONTROL, ALL-INCLUSIVE)
20+122.1 LT - 19+023.1 LT

LIGHTING PANELBOARD WITH METER

PROTECT POLE W/ TEMPORARY BARRIER AND ENERGY ABSORPTION ATTENUATORS.

SEE PLAN 13A

MATCH LINE 22+120

MATCH LINE 22+235

NOTES:

1. NEW RISER ON PROPOSED UTILITY POLE (5/7) FOR SECONDARY SERVICE FOR PROPOSED LIGHTING. SEE RISER POLE DETAIL FOR CONTRACTOR/UTILITY COMPANY RESPONSIBILITIES FOR FURNISHING AND INSTALLING NEW CONDUIT AND MOUNTING HARDWARE.

0 10 20 30

SCALE IN METERS

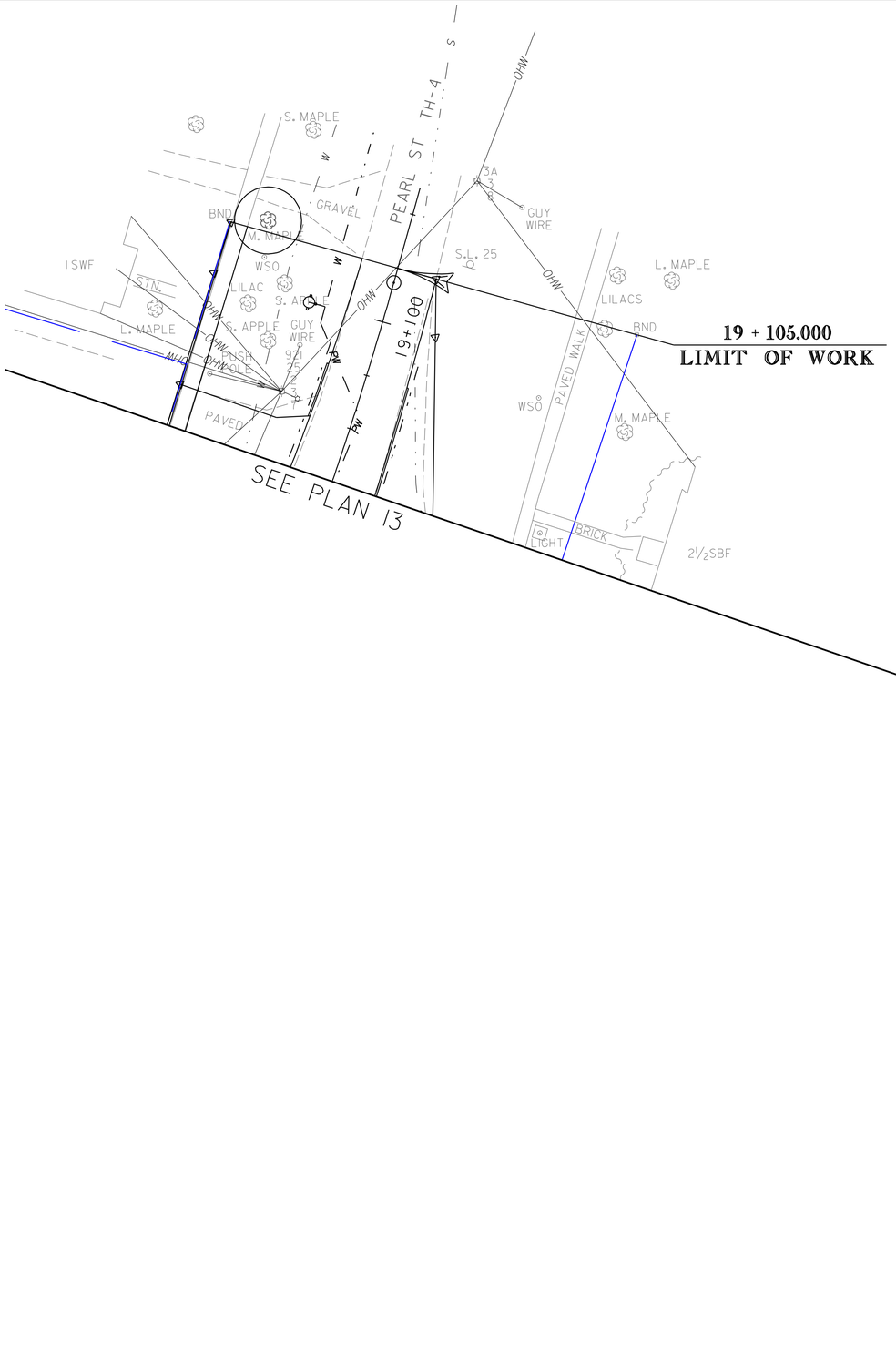
UTILITY RELOCATION PLAN 13

PROJECT NAME:	BRANDON
PROJECT NUMBER:	NH 019-3(496)
FILE NAME: zb008s6-uty.dgn	PLOT DATE: 2/23/2017
PROJECT LEADER: C. BEAN	DRAWN BY: CLD
DESIGNED BY: UTILITIES	CHECKED BY: UTILITIES
	SHEET 239 OF 601

CLD 02-0448 MODEL: i3

ISSUED FOR CONSTRUCTION

VAOT Metric



0 10 20 30

SCALE IN METERS

UTILITY RELOCATION PLAN 13A

PROJECT NAME: BRANDON

PROJECT NUMBER: NH 019-3(496)

FILE NAME: zb008s6-uty.dgn
PROJECT LEADER: C. BEAN
DESIGNED BY: UTILITIES

PLOT DATE: 2/23/2017
DRAWN BY: CLD
CHECKED BY: UTILITIES
SHEET 240 OF 601

CLD 02-0448 MODEL: 13A

ISSUED FOR CONSTRUCTION

VAOT Metric

VT STATE PLANE GRID N

MATCH LINE 22+235

MATCH LINE 22+365

22+240 22+260 22+280 22+300 22+320 22+340 22+360

US 7

M. OAK
M. MAPLE
M. MAPLE
1½SWF
STN. EDGING
GRAVEL
LILAC
L. MAPLE
HIST. MUSEUM MARK
LILACS
PAVED WALK
CHAIN LINK FN
1½SBF
S.CEDARS
GRAVEL DRIVE
1½SWF
GRAVEL DRIVE
WD.RAMP
1½SWF
CONC. DRIVE
CONC. DRIVE
S. CHERRY
2 ½SWF
GRAVEL DRIVE
2 SWF
WD RAMP
S. STUMP
S.SPRUCE
LILAC
STN. PATIO
STN. WALL W/ CHAIN BLOCK
CONC. POST
CONC. CURB
GRAVEL
S. MAPLE
M. MAPLE
S.L.25
M.B.FLOOR OUTLET
S. MAPLE
GRAVEL
CONC. CURB
GRAVEL
M. MAPLE
GRAVEL
VT 73
PAVED WALK
3-TEPT 10A
AERIAL E&T
CONC. CURB
GRASS
HVCTRL
HVCTRL
CONC.
DIRTY WORKS LAUNDRY
HVCTRL
M. STUMP
GRAVEL
5 PT2
NEW PUSH POLE
GRAVEL
DRIVEWAY PVT.
PAVED
MW
PAVED
8' [2438] 0°
GULF
GRASS
WD-FN
GRAVEL
GRASS
100 PVC ROOF DRAIN
BRANDON LUMBER
PAVED
CONC.
LAUNDROMAT
PAVED
GRAVEL
GUY WIRE
GAS FILLER
GAS STATION / STORE
PAVED
SHRUB
M. STUMP
M.MAPLE
PAVED WALK
STN. WALL
LILAC
1½SWF
GRAVEL
GRAVEL
L. MAPLE
8' [2438] 0°

0 10 20 30
SCALE IN METERS

CLD 02-0448 MODEL: 14

UTILITY RELOCATION PLAN 14

PROJECT NAME: BRANDON
PROJECT NUMBER: NH 019-3(496)

FILE NAME: zb008s6-uty.dgn
PROJECT LEADER: C. BEAN
DESIGNED BY: UTILITIES

PLOT DATE: 2/23/2017
DRAWN BY: CLD
CHECKED BY: UTILITIES
SHEET 241 OF 601

ISSUED FOR CONSTRUCTION

VAOT Metric

VT STATE PLANE GRID N

MATCH LINE 22+365

22+380 22+400 22+420 22+440 22+460 22+480 22+500 22+

MATCH LINE 22+520

US 7

BM #2 CHS. SQ.
TOP SW COR. CONC. STEPS
EL.= 125.872 m

MCDONALDS

2 SWF 2½SWF 1½SWF 2½SWF PAVED PAVED

S. SPRUCE S. MAPLE S.B.ELDERS S.B.ELDER S.CR.APPLE S.CR.APPLE S. INKBERRY S. ELM S. HEMLOCK

M. MAPLE L. MAPLE L. MAPLE M. MAPLE L. MAPLE M. MAPLE M. MAPLE M. MAPLE M. MAPLE M. MAPLES M. MAPLES M. MAPLES L. MAPLE

GRAVEL GRAVEL GRAVEL GRAVEL CONC. CONC. CONC. CURB CONC. CURB

PAVED WALK PAVED WALK PAVED WALK PAVED WALK

MRBL. WALL MRBL. WALL MRBL. WALL MRBL. WALL STEPS STEPS

STN. WALL

SHRUB SHRUB SHRUB

IRON PIN IRON PIN

HYD. HYD.

GUY WIRE GUY WIRE GUY WIRE GUY WIRE GUY POLE

LIGHT LIGHT LIGHT LIGHT F. POLE

WD. FN. PED

DO NOT ENTER THANK YOU

WARNING

B. WIRE FENCE

WOODS

GARDEN

LIGHTS

SSMH

GUIDE POST

HVCTRL HVCTRL HVCTRL HVCTRL HVCTRL

B&B

MRM SIGN BASE

BUSH

AERIAL E&T AERIAL E&T AERIAL E&T AERIAL E&T AERIAL E&T AERIAL E&T

OHW OHW OHW

ISSUED FOR CONSTRUCTION

VAOT Metric

VT STATE PLANE GRID N

MATCH LINE 22+520

22+630.000
END PROJECT
NH 019-3(496)
BEGIN APPROACH

22+680.000
END APPROACH

TELEPHONE RISER POLE (10/17)

INTERCEPT EXISTING UNDERGROUND TELEPHONE DUCTBANK AND EXTEND TO NEW RISER POLE (10/17). REDUCERS REQUIRED TO INTERCEPT EXISTING DUCTBANK. WORK SHALL BE COORDINATED WITH FAIRPOINT CONTRACTORS DUE TO EXISTING ACTIVE FIBER IN THE CONDUIT.

WETLAND #23
CLASS 2
PEMB

TO POLE #19/12

BM #1 CHS. SQ.
IN LEDGE
EL.= 120.49 m

22+520 22+540 22+560 22+580 22+600 22+620 22+640 22+660 22+680 22+700

0 10 20 30
SCALE IN METERS

UTILITY RELOCATION PLAN 16

PROJECT NAME: BRANDON
PROJECT NUMBER: NH 019-3(496)

FILE NAME: zb0085s6-uty.dgn
PROJECT LEADER: C. BEAN
DESIGNED BY: UTILITIES
PLOT DATE: 2/23/2017
DRAWN BY: CLD
CHECKED BY: UTILITIES
SHEET 243 OF 601

CLD 02-0448 MODEL: 16

ISSUED FOR CONSTRUCTION

VAOT Metric

GENERAL NOTES:

1. THIS PROJECT IS TO BE CONSTRUCTED IN ACCORDANCE WITH THE CONTRACT DRAWINGS AND SPECIFICATIONS. ADDITIONAL REFERENCE IS MADE TO THE FOLLOWING DOCUMENTS:
   - -STATE OF VERMONT, AGENCY OF TRANSPORTATION-STANDARD DRAWINGS AND STANDARD SPECIFICATIONS FOR CONSTRUCTION, DATED 2011.
   - -STATE OF VERMONT, AGENCY OF NATURAL RESOURCES - WATER SUPPLY RULE, DATED 2010.
   - -STATE OF VERMONT, AGENCY OF NATURAL RESOURCES - WASTEWATER SYSTEM AND POTABLE WATER SUPPLY RULES, DATED 2007.
   - -AMERICAN WATER WORKS ASSOCIATION STANDARDS - AWWA STANDARDS, LATEST EDITIONS.
   - -AMERICAN SOCIETY FOR TESTING AND MATERIALS - ASTM, LATEST EDITIONS.
   - -BRANDON FIRE DISTRICT NO. 1 WATER SYSTEM AND CONSTRUCTION STANDARDS (LATEST EDITION).

2. PRIOR TO ANY EXCAVATION, THE CONTRACTOR SHALL CONTACT DIG-SAFE AT 1-888-DIG-SAFE. SEE SUBSECTION 107.13 OF THE SPECIFICATIONS. THE CONTRACTOR SHALL ALSO CONTACT ALL UTILITY COMPANIES OWNING UTILITIES, EITHER OVERHEAD OR IN THE GROUND, WITHIN THE CONSTRUCTION AREA, AND SHALL COORDINATE WITH THE OWNERS OF SAID UTILITIES. THE CONTRACTOR SHALL TAKE ADEQUATE PRECAUTIONS TO PROTECT ALL EXISTING UTILITIES. RELOCATION OF ANY UTILITY, IF REQUIRED, SHALL BE ONLY AS DIRECTED BY THE OWNER OF SAID UTILITY. UTILITIES THAT ARE DAMAGED AS A RESULT OF THE CONTRACTOR'S OPERATIONS SHALL BE REPLACED AT THE CONTRACTOR'S EXPENSE. THE CONTRACTOR SHALL BE RESPONSIBLE FOR MAKING ALL ARRANGEMENTS FOR ANCHORING, SUPPORTING, AND/OR RELOCATING AND PROTECTING ALL UTILITIES DURING CONSTRUCTION.

3. THE LOCATIONS, SIZES, AND TYPES OF EXISTING UTILITIES ARE SHOWN AS AN APPROXIMATE REPRESENTATION ONLY. THE OWNER OR DESIGN ENGINEER HAVE NOT INDEPENDENTLY VERIFIED THIS INFORMATION AS SHOWN ON THE PLANS. THE UTILITY INFORMATION SHOWN DOES NOT GUARANTEE THE ACTUAL EXISTENCE, SERVICEABILITY, OR OTHER DATA CONCERNING THE UTILITIES, NOR DOES IT GUARANTEE AGAINST THE POSSIBILITY THAT ADDITIONAL UTILITIES MAY BE PRESENT THAT ARE NOT SHOWN ON THE PLANS. PRIOR TO ORDERING MATERIALS AND BEGINNING CONSTRUCTION, THE CONTRACTOR SHALL VERIFY AND DETERMINE THE EXACT LOCATIONS, SIZES, AND ELEVATIONS OF THE POINTS OF CONNECTIONS TO EXISTING UTILITIES AND SHALL CONFIRM THAT THERE ARE NO INTERFERENCES WITH EXISTING UTILITIES AND THE PROPOSED UTILITY ROUTES, INCLUDING ROUTES WITHIN THE PUBLIC RIGHTS OF WAY. EXPLORATORY EXCAVATION SHALL BE PAID FOR UNDER ITEM 204.22 TRENCH EXCAVATION OF EARTH, EXPLORATORY. REFER TO SPECIAL PROVISIONS FOR ADDITIONAL INFORMATION.

4. THE CONTRACTOR SHALL BE RESPONSIBLE FOR COORDINATION AND PAYMENT OF ALL NECESSARY PERMITS AS REQUIRED.

5. BORINGS, SOILS INFORMATION AND APPROXIMATE BEDROCK PROFILES ARE DEPICTED ON THE ROADWAY CROSS SECTIONS. LEDGE AS DEPICTED ON THOSE PLANS IS BASED ON INTERPOLATIONS AND MAY NOT REPRESENT THE ACTUAL BEDROCK ELEVATION. IT IS THE CONTRACTOR'S RESPONSIBILITY TO VERIFY LEDGE LOCATION AND NOT RELY SOLELY ON THE INFORMATION PROVIDED ON THE PLANS.

6. AN ESTIMATED QUANTITY OF ITEM 204.21, TRENCH EXCAVATION OF ROCK HAS BEEN INCLUDED FOR REMOVING LEDGE THAT MAY BE ENCOUNTERED. NO ADDITIONAL FACTORED PAYMENT WILL BE MADE FOR LEDGE REMOVAL DEEPER THAN 1.5 M.

7. ALL EXCAVATIONS SHALL COMPLY WITH OSHA AND VERMONT OSHA REQUIREMENTS. SHORING PLANS SHALL BE DEVELOPED BY A VERMONT LICENSED PROFESSIONAL ENGINEER FOR SUBMISSION TO THE ENGINEER. COSTS SHALL BE BORNE BY CONTRACTOR.

8. NO WORK WILL TAKE PLACE UNLESS THE OWNER'S REPRESENTATIVE IS PRESENT. THE OWNER RESERVES THE RIGHT TO REJECT ANY AND ALL WORK NOT MEETING THIS REQUIREMENT.

9. THE CONTRACTOR IS RESPONSIBLE FOR ALL ENGINEERING AND RELATED COSTS ASSOCIATED WITH ANY DESIGN ALTERNATIVES IN ACCORDANCE WITH SUBSECTION 105.04 AND/OR SUBSECTION 105.30 OF THE SPECIFICATIONS. DESIGN ALTERNATIVES SHALL BE SUBMITTED TO THE ENGINEER FOR REVIEW AND ACCEPTANCE PRIOR TO IMPLEMENTATION.

10. THE CONTRACTOR IS ADVISED THAT UTILITY OWNERS MAY WORK IN THE ROADWAY LIMITS IN CONJUNCTION WITH THE RECONSTRUCTION PROJECT.

11. THE CONTRACTOR SHALL MAINTAIN "RED LINE" DRAWINGS DURING CONSTRUCTION THAT REFLECT LOCATIONS AND ELEVATIONS OF INSTALLED WORK TO INCLUDE AT A MINIMUM, PIPE INVERTS, MANHOLE INVERTS, SEWER SERVICE WYES, WATER CORPORATIONS, CURB STOPS, AND TEE LOCATIONS.

12. TRENCH DAMS SHALL BE INSTALLED AS SHOWN ON THE TRENCH DAM DETAIL.

13. DUE TO POTENTIAL SUBSURFACE CONTAMINATION, WATER MAIN IN THE FOLLOWING ZONES SHALL BE PROVIDED WITH FKM GASKETS. THE ENGINEER MAY ORDER ADDITIONAL LENGTH BASED ON SOIL CONDITIONS ENCOUNTERED.
   - -STA. 21+870 TO 21+910
   - -STA. 22+140 TO 22+250

   TRENCH DAMS SHALL BE INSTALLED AT BOTH ENDS OF ZONES IDENTIFIED ABOVE ON WATER AND SEWER MAIN FEATURES. THE ENGINEER MAY DIRECT INSTALLATION OF ADDITIONAL TRENCH DAMS. TRENCH DAMS SHALL BE CONSIDERED INCIDENTAL TO WATER OR SEWER MAIN INSTALLATION. FKM GASKETS SHALL BE PAID UNDER ITEM 900.620 SPECIAL PROVISION (FKM GASKET).

14. DEVELOP AND SUBMIT TRANSITION PLAN TO UTILITY OWNERS IN ACCORDANCE WITH SUBSECTIONS 628.12 AND 629.16 OF THE SPECIFICATIONS.

GENERAL NOTES (CONT.):

15. TEMPORARY BYPASS UTILITIES OR TEMPORARY MODIFICATIONS TO THE EXISTING SYSTEMS MAY BE NECESSARY TO ACCOMMODATE THE INSTALLATION OF NEW SEWER, WATER MAIN AND SERVICE CONNECTIONS. THIS WORK WILL BE PAID FOR AS TRANSFER TO NEW SYSTEM, WATER SYSTEM OR TRANSFER TO NEW SYSTEM, SANITARY SEWER.

16. NO VERTICAL DEPTH FACTOR WILL APPLY TO EARTHWORK EXCAVATION OR BACKFILL FOR WATER OR SEWER WORK.

17. BUY AMERICA REQUIREMENTS APPLY TO ALL STEEL AND IRON PRODUCTS. SEE SUBSECTION 107.22 OF THE SPECIFICATIONS.

WORK LIMITATIONS IN ROADWAY:

1. CONTRACTOR SHALL BE RESPONSIBLE FOR MAINTENANCE AND PROTECTION OF TRAFFIC IN ACCORDANCE WITH MUTCD (2009 OR LATEST EDITION). CONTRACTOR SHALL ERECT AND MAINTAIN DETOUR SIGNAGE THROUGHOUT PROJECT. CONTRACTOR SHALL PROVIDE FLAGGERS, WHEN REQUIRED, TO THE SATISFACTION OF THE ENGINEER.

2. THE CONTRACTOR SHALL MAINTAIN EMERGENCY ACCESS TO ALL AREAS AFFECTED BY THE WORK AT ALL TIMES.

3. ALL CROSS-COUNTRY EXCAVATIONS SHALL BE THOROUGHLY SECURED WITH STEEL PLATES ON A DAILY BASIS BY THE CONTRACTOR. THE CONTRACTOR MAY ELECT TO USE STEEL PLATES OVERNIGHT FOR EXCAVATIONS IN ROADWAY LOCATIONS BUT SHALL ACCEPT LIABILITY FOR SAFETY CONCERNS.

4. THE CONTRACTOR'S ATTENTION IS DIRECTED TO THE TRAFFIC CONTROL PLANS FOR ADDITIONAL INFORMATION.

DEMOLITION:

1. EXISTING MANHOLES AND PIPES ENCOUNTERED WITHIN PROPOSED TRENCH THAT ARE NO LONGER NECESSARY SHALL BE COMPLETELY REMOVED. THIS WORK SHALL BE CONSIDERED INCIDENTAL TO THE RELEVANT NEW PIPE OR MANHOLE ITEMS.

2. EXISTING WATER MAIN PIPE TO BE ABANDONED WITHIN ROADWAY LIMITS SHALL BE CAPPED AND LOCATIONS SHALL BE RECORDED ON THE RECORD DRAWINGS.

3. EXISTING SEWER TO BE ABANDONED WITHIN THE ROADWAY LIMITS SHALL BE FILLED WITH CONTROLLED DENSITY (FLOWABLE) FILL.

4. MANHOLES AND PIPES THAT ARE NO LONGER NECESSARY AND EXTEND BEYOND THE ROADWAY LIMIT SHALL BE CAPPED AND ABANDONED UNLESS OTHERWISE NOTED ON THE PLANS OR AS DIRECTED BY THE ENGINEER. THE CONTRACTOR SHALL NOTE LOCATIONS AND DEPTHS OF CAPPED ENDS ON THE RECORD DRAWINGS.

5. NO ADDITIONAL PAYMENT SHALL BE MADE FOR ABANDONING AND PLUGGING OR CAPPING EXISTING PIPES WHEN DIRECTED BY THE ENGINEER.

6. CONTRACTOR SHALL BE RESPONSIBLE FOR REMOVAL AND PROPER DISPOSAL OF ALL ITEMS REMOVED DURING CONSTRUCTION.

7. REMOVED FRAMES, COVERS AND HYDRANTS SHALL BE SALVAGED TO THE OWNER.

8. THE EXISTING SANITARY SEWER MAY CONSIST OF TRANSITE PIPE. A QUANTITY OF ITEM 900.640 SPECIAL PROVISION (TRANSITE PIPE REMOVAL) HAS BEEN INCLUDED FOR REMOVAL OF TRANSITE PIPE IF ENCOUNTERED WHEN INSTALLING NEW SEWER.

SURVEY NOTES:

1. THE BASE MAPPING SHOWN WAS DEVELOPED BY VAOT AND SUPPLEMENTED BY VERMONT SURVEY AND ENGINEERING, INC. SOME SUBSURFACE FEATURES SHOWN WERE INPUT BASED ON THE BEST AVAILABLE DATA SUPPLIED BY THE TOWN OF BRANDON.

2. THE CONTRACTOR WILL ESTABLISH AND MAINTAIN SURVEY CONTROL THROUGHOUT THE PROJECT. THIS WORK IS SUBJECT TO THE CHECKING, APPROVAL, AND SURVEILLANCE BY THE ENGINEER.

3. SEE TIE SHEETS FOR BENCHMARK DATA.

3	JAN. 2017	REVISED NOTE 13. BLASTING NOTES MOVED TO PROJECT GENERAL NOTES.
2	AUG. 2016	UPDATED PLAN SET
1	JAN. 2006	MODIFIED TO ADDRESS APRIL 18, 2005 WATER SUPPLY DIVISION COMMENTS

WATER/SEWER NOTES

PROJECT NAME: BRANDON
PROJECT NUMBER: NH 019-3(496)

FILE NAME: zb008s6-swrdet.dgn
PROJECT LEADER: C. BEAN
DESIGNED BY: M. HALEY
PLOT DATE: 2/23/2017
DRAWN BY: W. GORDON
CHECKED BY: D. LEWIS
SHEET 244 OF 601

CLD 02-0448 MODEL:1

ISSUED FOR CONSTRUCTION

VAOT Metric

WATER CONSTRUCTION:

1. ONLY BRANDON FIRE DISTRICT #1 PERSONNEL SHALL OPERATE VALVES.

2. EXISTING WATER SERVICES SHALL BE CONNECTED TO THE NEW WATER MAIN AS SHOWN ON THE WATER DETAILS.

3. THE CONTRACTOR SHALL DEVELOP A PLAN TO ADDRESS TEMPORARY WATER SUPPLY DURING EACH CONSTRUCTION STAGE. THE PLAN SHALL BE PRESENTED TO BRANDON FIRE DISTRICT #1 FOR REVIEW AND ACCEPTANCE AT LEAST THREE DAYS PRIOR TO EACH STAGE. NO MORE THAN 300 M OF CONTIGUOUS TEMPORARY WATER SUPPLY PIPE SHALL BE IN SERVICE. THE PLAN SHALL PROVIDE FOR CONTINUOUS FIRE PROTECTION EQUAL TO THAT AVAILABLE PRIOR TO CONSTRUCTION. PROVIDE MINIMUM 150 MM TEMPORARY WATER MAIN WHEN EXISTING MAIN IS 150 MM OR LARGER AND MORE THAN 7 CUSTOMER SERVICES ARE AFFECTED. THE EFFORT TO PREPARE AND SUBMIT THE PLAN SHALL BE CONSIDERED INCLUDED WITH ITEM 629.42 TRANSFER TO NEW SYSTEM, WATER SYSTEM.

4. THE CONTRACTOR SHALL SUPPLY A TIE-CARD TO BRANDON FIRE DISTRICT #1 AND THE WATER CUSTOMER DOCUMENTING THE LOCATION OF EACH INSTALLED SERVICE CONNECTION (CORPORATION AND CURB STOP).

5. WATER MAIN INSTALLATION SHALL COMPLY WITH AWWA C-600 AND THE VERMONT WATER SUPPLY RULE. HYDROSTATIC TESTING PER AWWA C-600 SHALL BE PERFORMED IN THE PRESENCE OF THE ENGINEER AND BRANDON FIRE DISTRICT #1 PERSONNEL. THE OWNER RESERVES THE RIGHT TO REJECT WORK NOT COMPLYING WITH THIS REQUIREMENT. PIPE SECTIONS SHALL BE SUBJECTED TO A HYDROSTATIC PRESSURE OF 150% OF WORKING PRESSURE FOR A TWO HOUR DURATION.

6. CORPORATION AND TUBING REQUIRED FOR TESTING SHALL BE CONSIDERED INCIDENTAL TO TRANSFER TO NEW SYSTEM, WATER SYSTEM.

7. PERMANENT AND TEMPORARY WATER MAIN SHALL BE FLUSHED AND DISINFECTED PER SECTION 629. THIS WORK SHALL BE CONSIDERED INCIDENTAL TO ITEM 629.42 TRANSFER TO NEW SYSTEM, WATER SYSTEM. NOTE THE FOLLOWING:
   - THE VERMONT WATER SUPPLY RULE, APPENDIX A, SUBSECTION 8.5.7, STATES THAT THE TABLET FORM OF DISINFECTION IS NOT ACCEPTABLE. PROVIDE PLAN AND PROPOSED METHOD FOR DISINFECTION TWO WEEKS PRIOR TO INTENDED WORK.
   - AFTER DISINFECTION, CHLORINATED WATER SHALL BE PUMPED INTO THE TOWN SEWER SYSTEM. PROVIDE TOWN WASTEWATER TREATMENT PLANT WITH TWO WEEKS NOTICE BEFORE DISCHARGE.

8. WATER MAIN SHALL HAVE 1.65 M (5.5 FT) COVER MIN. (TYP.). ITEM 622.10, INSULATION BOARD SHALL BE INSTALLED OVER WATER MAIN WHERE LESS THAN 1.65 M (5.5 FT) COVER IS PROVIDED. WHERE SEPARATION DISTANCE OF WATER MAIN IS CLOSER THAN 0.5 M TO DRAINAGE PIPE OR MANHOLE FEATURES, CONTRACTOR SHALL INSULATE WATER MAIN FOR FROST PROTECTION WITH ITEM 622.10, INSULATION BOARD. REFER TO WATER DETAILS FOR ADDITIONAL INFORMATION.

9. ALL DUCTILE IRON PIPE SHALL BE CLASS 52, DOUBLE CEMENT LINED AND SEAL COATED.

10. ALL 25 MM AND 50 MM WATER SERVICE PIPE TO BE COPPER WATER TUBE UNLESS OTHERWISE NOTED ON THE PLANS.

11. THRUST RESTRAINT REQUIREMENTS:
   - RETAINER GLANDS WITHIN THREE PIPE LENGTHS ON EACH SIDE SHALL BE USED IN LIEU OF THREADED ROD OR GRIP RINGS AT ALL PIPE BENDS, FITTINGS, VALVES, AND APPURTENANCES.
   - CONTRACTOR SHALL IDENTIFY SELECTION OF RESTRAINT IN WORKING DRAWINGS PROVIDED TO ENGINEER FOR REVIEW.

12. REPLACEMENT WATER SERVICE SIZES SHALL BE SAME SIZE AS EXISTING UNLESS OTHERWISE DIRECTED BY THE ENGINEER. CONTRACTOR SHALL CONFIRM EXISTING SERVICE SIZES AT ALL LOCATIONS PRIOR TO LAYING WATER MAIN. CONTRACTOR SHALL COORDINATE WITH WATER CUSTOMERS AND BRANDON FIRE DISTRICT #1.

13. ALL HYDRANTS AND VALVES TO OPEN LEFT.

14. DURING PERIODS OF DELAY AND AT THE CONCLUSION OF THE DAY'S WORK, LENGTHS OF PIPE WITH OPEN ENDS SHALL BE TIGHTLY CLOSED WITH WATERTIGHT PLUGS, SPECIAL SEALS, OR BY OTHER SUITABLE MEANS ACCEPTED BY THE ENGINEER TO PREVENT THE ENTRY OF ANIMALS, FOREIGN MATTER AND TRENCH WATER. TRENCH WATER SHALL BE PUMPED OUT BEFORE THE SEALS, PLUGS, OR OTHER TEMPORARY CLOSURES ARE REMOVED.

15. EXISTING HYDRANTS TO BE REMOVED SHALL BE SALVAGED TO A LOCATION SPECIFIED BY THE BRANDON FIRE DISTRICT #1. EXISTING HYDRANT ASSEMBLIES SHALL BE COMPLETELY REMOVED TO THE TEE AT THE OLD WATER MAIN. THE TEE SHALL BE GROUTED AND CAPPED. REMOVAL AND SALVAGE OF HYDRANTS AS DEFINED ABOVE SHALL BE PAID FOR AS ITEM 629.30, REMOVE HYDRANT.

16. THE CONTRACTOR SHALL COORDINATE AND VERIFY THAT FIELD MODIFICATIONS DO NOT RESULT IN CONFLICTS BETWEEN WATER MAIN, SEWER, OR DRAINAGE FEATURES.

17. HYDRANT FLOW TESTING WILL BE PERFORMED BY THE BRANDON FIRE DISTRICT. CONTRACTOR SHALL COORDINATE WITH THE BRANDON FIRE DISTRICT TO SCHEDULE THIS TESTING.

CHAMPLAIN STREET FORCE MAIN TRANSITION:

THE FOLLOWING SEQUENCE OF TASKS ARE PROPOSED FOR TRANSITION FROM EXISTING TO PROPOSED FORCE MAIN OPERATIONS. THE CONTRACTOR SHALL UTILIZE THE PROPOSED SEQUENCE OF TASKS OR PROPOSE AN ALTERNATE PLAN OF ACTION ON THE PROPOSED CPM SCHEDULE AS OUTLINED IN SUBSECTION 108.03 OF THE SPECIFICATIONS.

1. INSTALL NEW FORCE MAIN FROM APPROX. STA. 18+112 (VT 73 WEST) TO NEW SANITARY MANHOLE SMH-F11 (18+052 RT). INSTALL AND RESTRAIN TEMPORARY CAPS AT EITHER END TO CONDUCT PRESSURE TESTING.

CHAMPLAIN STREET FORCE MAIN TRANSITION (CONT.)

2. DRAIN OLD FORCE MAIN FLUID INTO WETWELL. BYPASS PUMPING WILL BE REQUIRED. PUMPING EFFORT SHALL BE CONSIDERED INCIDENTAL TO ITEM 628.42 TRANSFER TO NEW SYSTEM, SANITARY SEWER.

3. CONNECT NEW FORCE MAIN TO EXISTING FORCE MAIN AS NOTED ON WATER/SEWER PLAN 13A.

SEWER CONSTRUCTION:

1. NO SEWER SURCHARGING WILL BE PERMITTED. WASTEWATER FLOW SHALL BE MAINTAINED BY BYPASS PUMPING OR OTHER METHODS AS APPROVED BY THE ENGINEER. THIS WORK SHALL BE CONSIDERED INCIDENTAL TO ITEM 628.42 TRANSFER TO NEW SYSTEM, SANITARY SEWER.

2. CONTRACTOR TO PERFORM EXPLORATORY EXCAVATION TO EXPOSE DOWNSTREAM SEWER LINE AT EACH SYSTEM PRIOR TO LAYING SEWER PIPE AND TO VERIFY INVERTS ON CONNECTING MANHOLES.

3. THE CONTRACTOR SHALL SUPPLY A TIE-CARD TO THE TOWN AND BUILDING OWNER FOR DOCUMENTING THE LOCATION OF EACH SERVICE CONNECTION.

4. THE CONTRACTOR SHALL EXCAVATE, REMOVE, AND REPLACE ALL EXISTING PIPE TO REMAIN THAT IS DAMAGED BY THE CONTRACTOR'S ACTIONS AT THE CONTRACTOR'S OWN EXPENSE. THE NEW PIPE SHALL BE THE SAME SIZE AS THE EXISTING PIPE AND SHALL BE CONNECTED TO THE EXISTING PIPE WITH APPROVED REPAIR COUPLINGS.

5. UNLESS OTHERWISE SPECIFIED, MINIMUM SEWER PIPE COVER SHALL BE 1.5 M (5.0 FT).

6. EMBANKMENTS SHALL BE COMPLETED AND COMPACTED TO AN ELEVATION AT LEAST 300 MM ABOVE THE TOP OF THE SEWER PIPE PRIOR TO EXCAVATING A TRENCH TO INSTALL PIPE.

7. ALL PIPE LENGTHS ARE MEASURED FROM INSIDE MANHOLE WALL TO INSIDE MANHOLE WALL. SLOPES ARE SHOWN IN PERCENT ON SEWER PROFILES.

8. SEWER LINES SHALL BE LOCATED A MINIMUM OF 3 M (10 FT) HORIZONTALLY FROM ALL PROPOSED AND EXISTING WATER MAINS, AS MEASURED FROM OUTSIDE PIPE WALLS.

9. ALL SANITARY MANHOLES SHALL PASS LEAKAGE TESTING CRITERIA OUTLINED IN SECTION 628 OF THE SPECIFICATIONS. AS AN ALTERNATIVE, THE CONTRACTOR MAY ELECT TO PERFORM VACUUM TESTING ON MANHOLES PRIOR TO BACK FILLING AS FOLLOWS:
   - ALL LIFT HOLES AND INVERT HOLES SHALL BE PLUGGED.
   - THE INITIAL VACUUM GAUGE TEST PRESSURE SHALL BE 254 MM (10 INCHES) Hg.
   - THE MINIMUM ACCEPTABLE TEST HOLD TIME FOR A 25 MM (1 INCH) Hg DROP TO 229 MM (9 INCHES) Hg SHALL BE NOT LESS THAN 2 MINUTES.
   - THE MANHOLE SHALL BE REPAIRED AND RETESTED IF THE TEST HOLD TIMES FAIL TO ACHIEVE THE CRITERIA LISTED ABOVE.

   THIS WORK SHALL BE CONSIDERED INCIDENTAL TO SPECIAL PROVISION (SANITARY MANHOLE, ALL-INCLUSIVE).

10. CONTRACTOR SHALL FLUSH INSTALLED SEWER AND VIDEOTAPE FOR ENGINEER'S REVIEW PRIOR TO FINAL ACCEPTANCE AND APPLICATION OF WEARING COURSE PAVEMENT. THIS WORK SHALL BE INCLUDED WITH ITEM 628.42 TRANSFER TO NEW SYSTEM, SANITARY SEWER.

11. SEWER FORCE MAIN PIPE SHALL BE AWWA C-900 PVC AND SHALL BE PRESSURE TESTED TO 100 PSI.

12. ALL PVC SEWER PIPE SHALL BE SDR 35 UNLESS NOTED OTHERWISE.

13. A QUANTITY OF 4.2 CM OF ITEM 204.21 TRENCH EXCAVATION OF ROCK AND ITEM 203.31 SAND BORROW HAVE BEEN ESTABLISHED FOR REMOVAL/BACKFILL FOR EACH EXISTING SANITARY MANHOLE TO BE REMOVED WHERE SPECIFIED WHEN LOCATED OUTSIDE OF THE LIMITS FOR OTHER CONSTRUCTION.

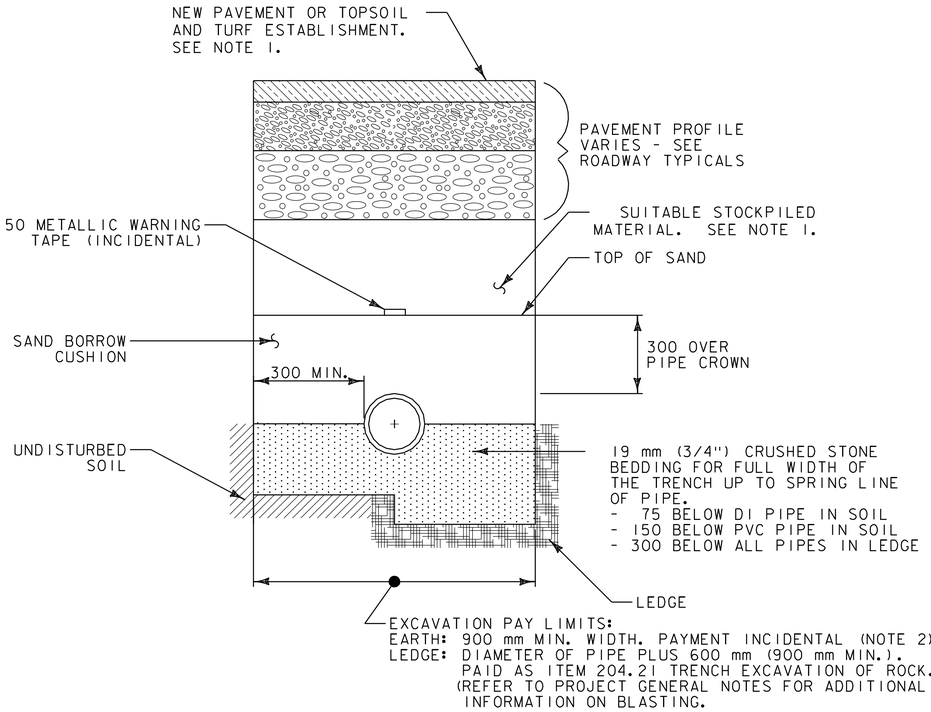
3	JAN. 2017	REVISED NOTE 10 AND ADDED NOTE 17 (WATER CONSTRUCTION)
2	AUG. 2016	UPDATED PLAN SET
1	JAN. 2006	MODIFIED TO ADDRESS APRIL 18, 2005 WATER SUPPLY DIVISION COMMENTS

WATER/SEWER NOTES

PROJECT NAME: BRANDON
PROJECT NUMBER: NH 019-3(496)

FILE NAME: zb008s6-swrdet.dgn
PROJECT LEADER: C. BEAN
DESIGNED BY: M. HALEY
PLOT DATE: 2/23/2017
DRAWN BY: W. GORDON
CHECKED BY: D. LEWIS
SHEET 245 OF 601

CLD 02-0448 MODEL: 2



NOTES:

1. SUITABLE STOCKPILED MATERIAL FOR BACKFILL SHALL BE PLACED UP TO THE BOTTOM OF PROPOSED ROADBED MATERIAL. REFER TO SUBSECTION 629.14 d) OF THE SPECIFICATIONS FOR BACKFILL AND COMPACTION REQUIREMENTS. IN AREAS OF GRASS, CONTRACTOR SHALL BACKFILL TRENCH IN ACCORDANCE WITH SPECIFICATIONS TO MATCH EXISTING GRADE WITH 100 mm OF ITEM 651.35 TOPSOIL.

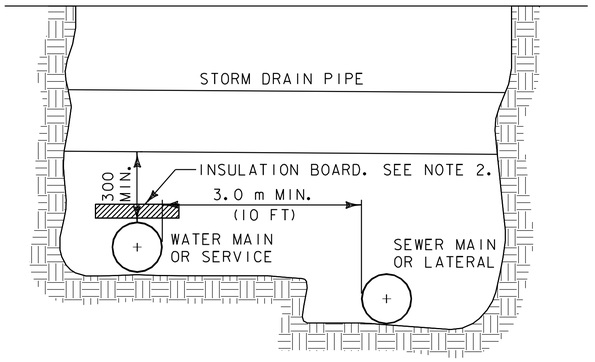
2. WORK DEPICTED ON THIS DETAIL SHALL BE INCIDENTAL TO EITHER SPECIAL PROVISION WATERLINE OR SPECIAL PROVISION SEWER ITEMS. AN ESTIMATED QUANTITY OF ITEM 204.21 TRENCH EXCAVATION OF ROCK HAS ALSO BEEN INCLUDED FOR AREAS WHERE LEDGE IS ENCOUNTERED OR AS DIRECTED BY THE ENGINEER. PAYMENT FOR TRENCH EXCAVATION OF EARTH, SAWCUT, COLD PLANE, STOCKPILING, DISPOSAL OF ALL SURPLUS MATERIAL, BACKFILL, SAND BORROW CUSHION, CRUSHED STONE BEDDING, LABOR, TOOLS, EQUIPMENT AND ALL INCIDENTALS NECESSARY TO COMPLETE THE WORK SHALL BE INCIDENTAL TO THE APPLICABLE SPECIAL PROVISION WATER OR SEWER PAY ITEM. TRENCH EXCAVATION OF ROCK, PROPOSED ROADBED MATERIAL, TOPSOIL AND TURF ESTABLISHMENT ITEMS WILL BE PAID FOR SEPARATELY.

TYPICAL TRENCH DETAIL

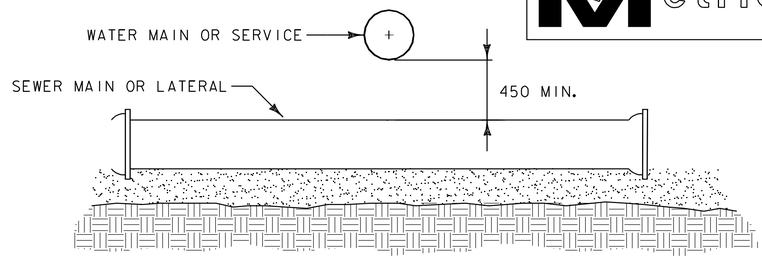
NOT TO SCALE

ISSUED FOR CONSTRUCTION

Metric



PARALLEL INSTALLATION



MAIN CROSSINGS

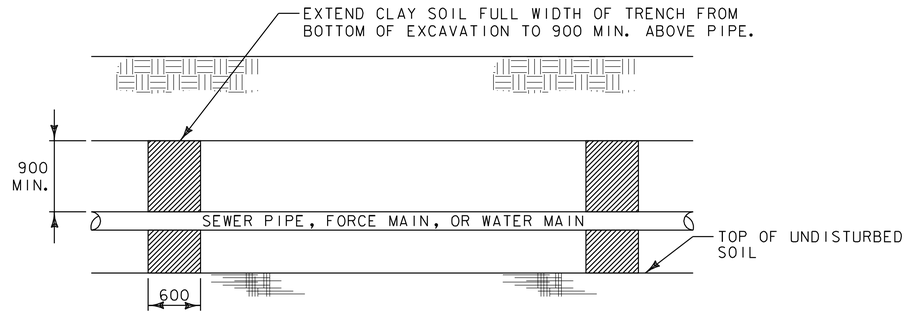
NOTES:

1. WATER MAINS SHALL BE ADJUSTED AS NEEDED TO AVOID DRAINAGE AND SEWER PIPES. SEE PLANS, PROFILES AND CROSS SECTIONS FOR THE LOCATION OF UNDERGROUND FEATURES.

2. ITEM 622.10 INSULATION BOARD SHALL BE PROVIDED FOR 2.4 m ALONG WATER MAIN WHERE WATER MAIN EXTENDS WITHIN 0.45 m OF DRAINAGE PIPE OR MANHOLE FEATURES. INSULATION BOARD SHALL BE 50 mm THICK.

3. WHEN CROSSING VERTICAL SEPARATION IS LESS THEN 450 mm, NEW ITEM 900.640 SPECIAL PROVISION (C-900 PVC, ALL-INCLUSIVE) SHALL BE INSTALLED FROM MANHOLE TO MANHOLE.

WATER MAIN – SEWER MAIN SEPARATION DETAIL



NOTES:

1. CLAY SOIL TO EXHIBIT 1X10E-6 CM/SEC PERMEABILITY MAX.
2. TRENCH DAM REQUIRED WHEN SLOPE EXCEEDS 8 PERCENT.
3. TRENCH DAM SHALL BE INCIDENTAL TO PIPE INSTALLATION.

TRENCH DAM DETAIL

2	AUG. 2016	UPDATED PLAN SET
1	JAN. 2006	MODIFIED TO ADDRESS APRIL 18, 2005 WATER SUPPLY DIVISION COMMENTS

WATER/SEWER DETAILS

PROJECT NAME: BRANDON
PROJECT NUMBER: NH 019-3(496)

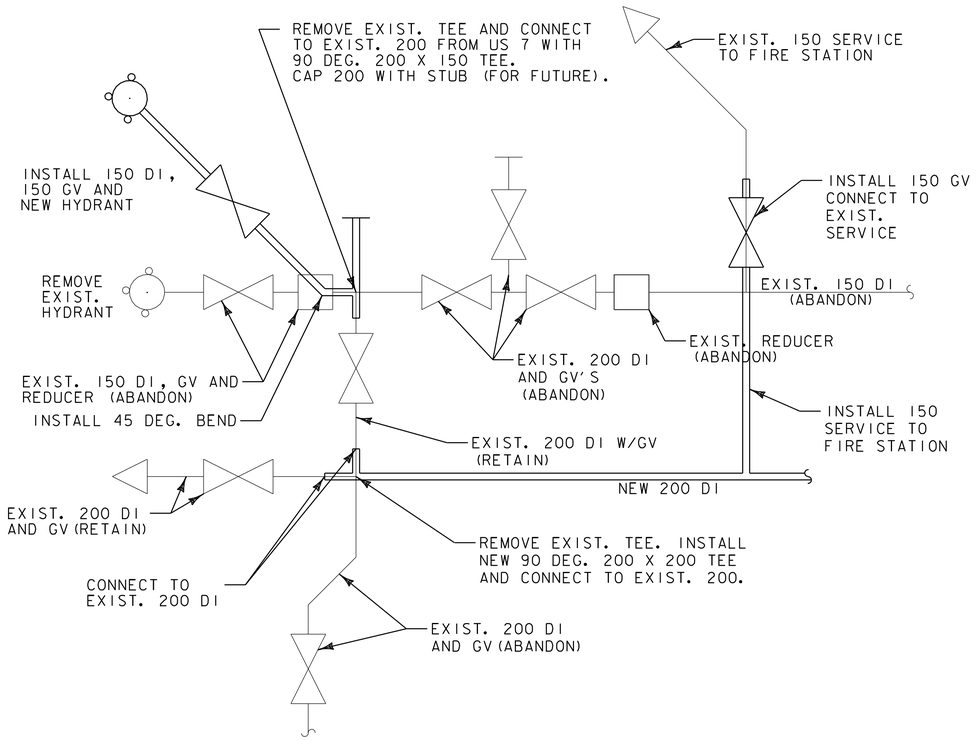
FILE NAME: zb008s6-swrdet.dgn
PROJECT LEADER: C. BEAN
DESIGNED BY: M. HALEY

PLOT DATE: 2/23/2017
DRAWN BY: W. GORDON
CHECKED BY: D. LEWIS
SHEET 246 OF 601

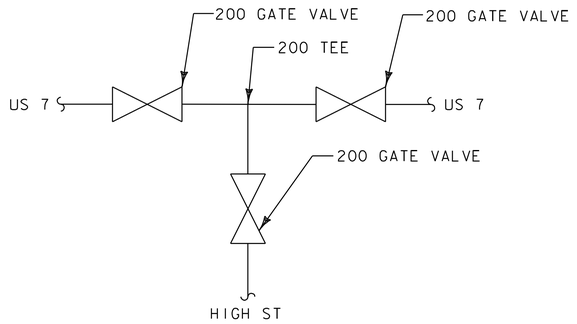
CLD 02-0448 MODEL: 3

ISSUED FOR CONSTRUCTION

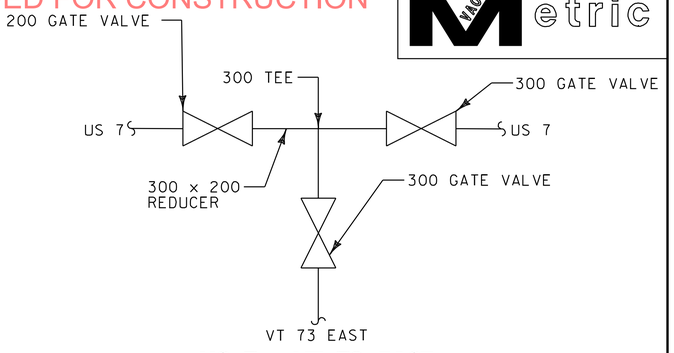
VAOT Metric



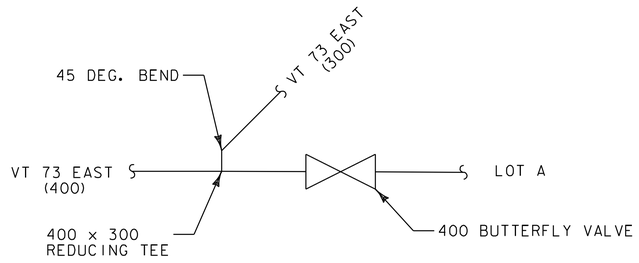
US 7 – BEGIN PROJECT
STA 20+800



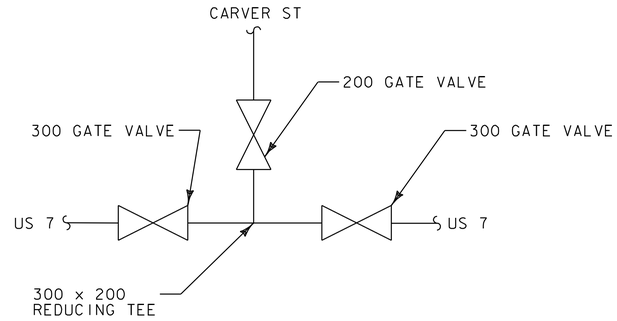
US 7 – HIGH STREET
STA 20+894



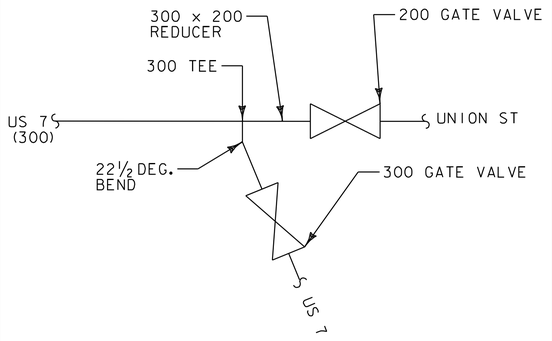
US 7 – VT 73 EAST
STA 21+471



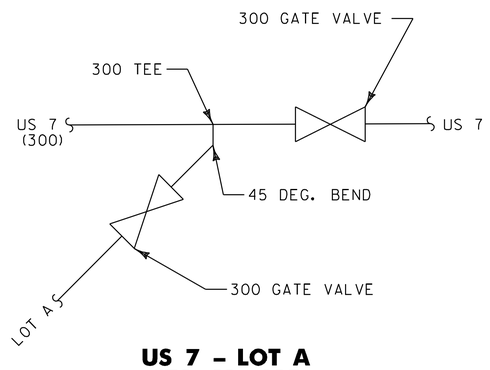
VT 73 EAST – LOT A
STA 36+047



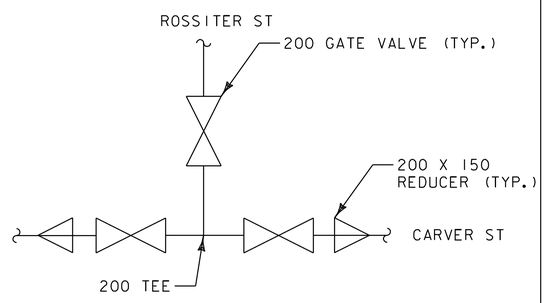
US 7 – CARVER STREET
STA 21+564



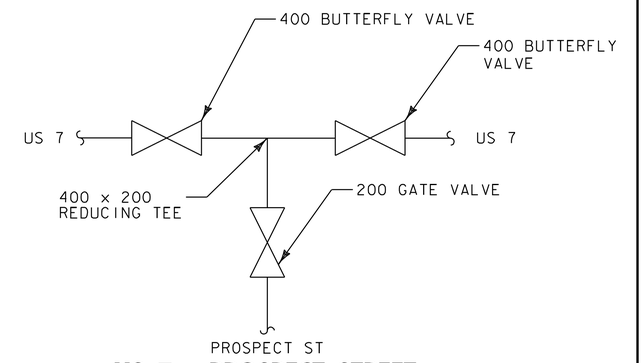
US 7 – UNION STREET
STA 21+584



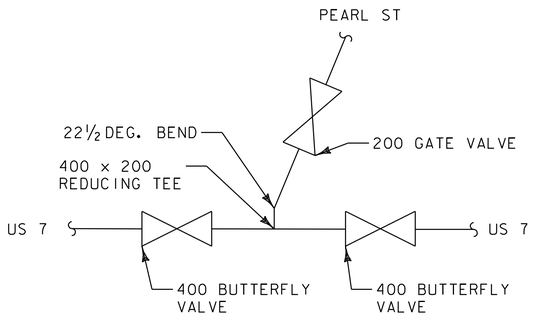
US 7 – LOT A
STA 21+635



CARVER STREET – ROSSITER STREET
STA 34+204

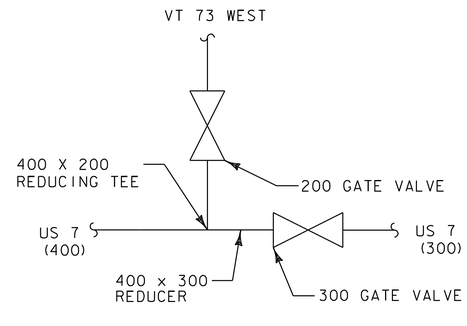


US 7 – PROSPECT STREET
STA 21+952



US 7 – PEARL STREET
STA 22+139

NOT TO SCALE



US 7 – VT 73 WEST
STA 22+192

NOTES:

1. PIPE ANGLE CONNECTIONS SHOWN ARE APPROXIMATE. CONTRACTOR SHALL VERIFY IN THE FIELD.

2. FOR PAYMENT OF ITEMS DEPICTED ON CONNECTION DETAILS THIS SHEET:
- ALL GATE VALVES AND ASSOCIATED VALVE BOXES (ITEM 629.27).
- 900.620 SPECIAL PROVISION (BUTTERFLY VALVE WITH VALVE BOX) (400 mm)
- CORPORATIONS FOR SERVICE CONNECTIONS (ITEM 629.39).
- ALL WATER MAIN (SPECIAL PROVISION ITEMS 900.640 DUCTILE IRON PIPE, CEMENT-LINED, ALL-INCLUSIVE).
- ALL TEES, BENDS AND FITTINGS SHALL BE INCIDENTAL TO THE ASSOCIATED DUCTILE IRON PIPE ITEMS.
- ALL WATER MAIN CONNECTIONS, TEMPORARY WATER SERVICE, AND ABANDONMENT SHALL BE PAID UNDER ITEM 624.42 TRANSFER TO NEW SYSTEM, WATER SYSTEM.

WATER CONNECTION DETAILS

3	JAN. 2017	400 mm BUTTERFLY VALVE
2	AUG. 2016	UPDATED PLAN SET
1	JAN. 2006	MODIFIED TO ADDRESS APRIL 18, 2005 WATER SUPPLY DIVISION COMMENTS

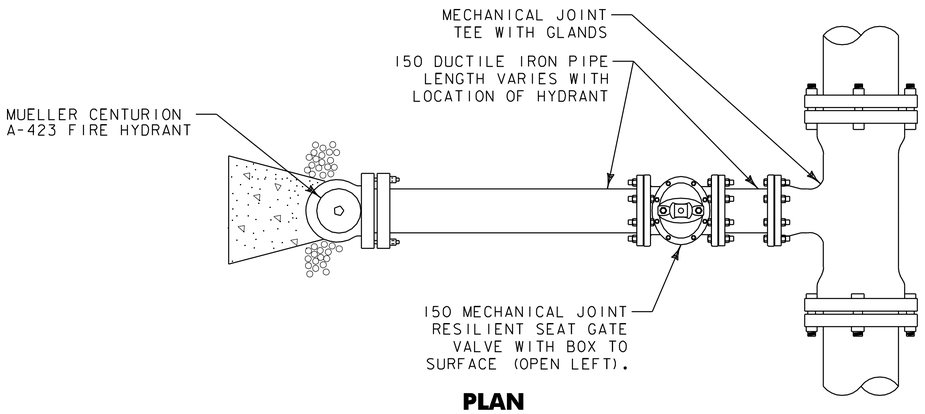
WATER/SEWER DETAILS

PROJECT NAME: BRANDON
PROJECT NUMBER: NH 019-3(496)

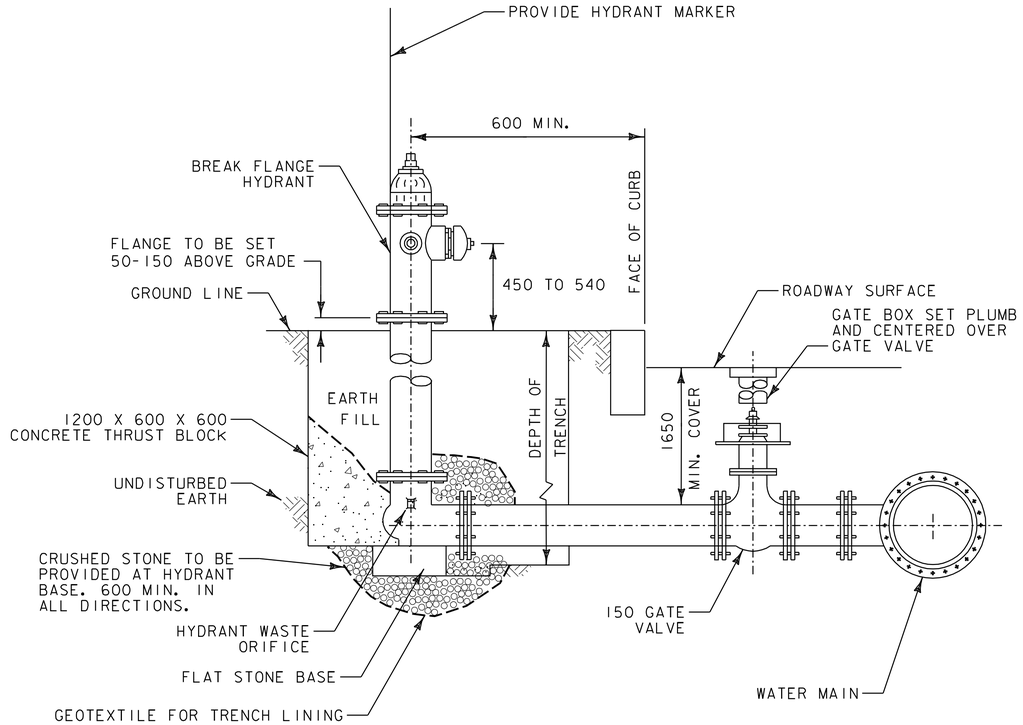
FILE NAME: zb008s6-swrdet.dgn
PROJECT LEADER: C. BEAN
DESIGNED BY: M. HALEY

PLOT DATE: 2/23/2017
DRAWN BY: W. GORDON
CHECKED BY: D. LEWIS
SHEET 247 OF 601

CLD 02-0448 MODEL: 4



PLAN



PROFILE

NOTES:

1. ALL MATERIALS AND INSTALLATION PROCEDURES SHALL CONFORM TO AWWA TECHNICAL SPECIFICATIONS.

2. ALL HYDRANTS SHALL BE MUELLER SUPER CENTURION AS REQUIRED BY BRANDON FIRE DISTRICT #1. PROVIDE STAINLESS STEEL BOLTS AND NUTS.

3. SUBSTITUTE RETAINER GLANDS IN LIEU OF THREADED ROD OR GRIP RINGS. CONTRACTOR SHALL IDENTIFY SELECTION OF RESTRAINT IN WORKING DRAWING PROVIDED TO ENGINEER FOR REVIEW.

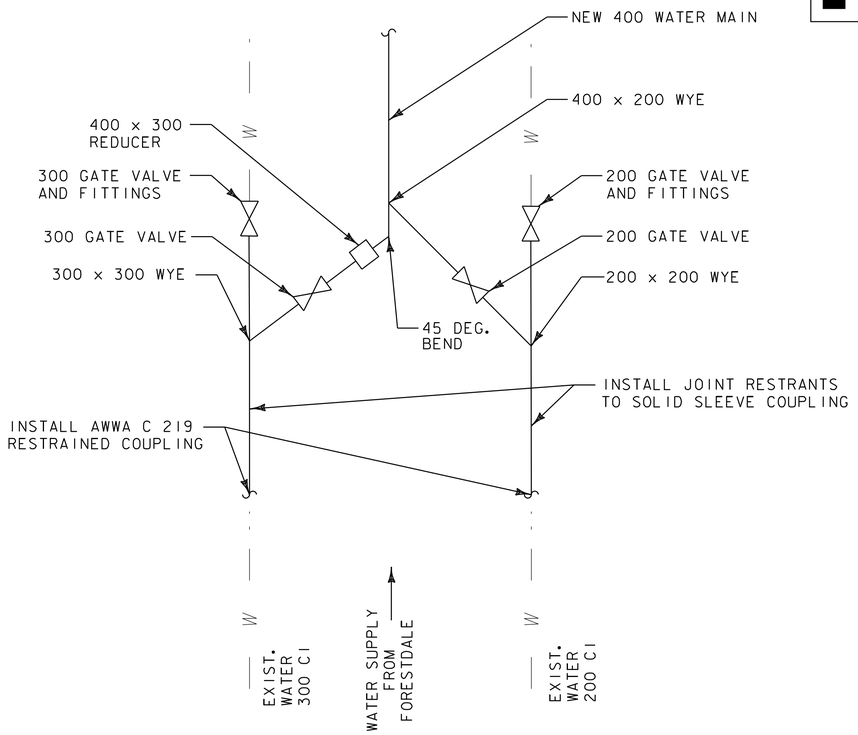
4. THE HYDRANT DRAIN PORT SHALL BE PLUGGED IN AREAS OF HIGH GROUNDWATER OR WITHIN 3.0 m (10 FT) OF A SANITARY SEWER.

5. 150 PIPE AND GATE VALVE SHALL BE PAID FOR UNDER ITEM 900.640 SPECIAL PROVISION (DUCTILE IRON PIPE, CEMENT-LINED, ALL-INCLUSIVE) AND ITEM 629.27 GATE VALVE WITH VALVE BOX. HYDRANTS SHALL BE PAID FOR UNDER ITEM 900.620 SPECIAL PROVISION (MUELLER HYDRANT). ALL NECESSARY FITTINGS, THRUST BLOCK, STONE, GEOTEXTILE AND BENDS SHALL BE CONSIDERED INCIDENTAL AS NOTED IN THE SPECIAL PROVISIONS.

TYPICAL HYDRANT INSTALLATION

NOT TO SCALE

ISSUED FOR CONSTRUCTION



PARK STREET INTERCONNECT DETAIL
VT 73 EAST
STA 36+100

NOTES:

1. RESTRAINED COUPLING SHALL BE CAPABLE OF CONNECTING CAST IRON PIPE. ACCEPTABLE BRANDS INCLUDE ROMAC, JCM INDUSTRIES, AND SMITH-BLAIR. HYMAX COUPLERS WILL NOT BE ACCEPTED.

2. CONTRACTOR SHALL CONFIRM OUTSIDE DIMENSION (O.D.) OF EXISTING CAST IRON MAIN PRIOR TO ORDERING FITTINGS (INCIDENTAL TO ITEM 204.22 TRENCH EXCAVATION OF EARTH, EXPLORATORY).

3. PROVIDE WORKING DRAWING OF PROPOSED CONFIGURATION IF LAYOUT DIFFERS FROM DESIGN SCHEMATIC.

4. ONLY ONE PARK STREET MAIN SHALL BE INTERRUPTED TO ALLOW INSTALLATION PER EVENT. LIMIT WATER SUPPLY INTERRUPTION TO 4 HOURS. COORDINATE WITH BRANDON FIRE DISTRICT #1.

5. ALL GATE VALVES THIS DETAIL SHALL BE PAID FOR UNDER ITEM 627.27 GATE VALVE WITH VALVE BOX. ALL WATER MAIN SHALL BE PAID FOR UNDER ITEM 900.620 SPECIAL PROVISION (DUCTILE IRON PIPE, CEMENT-LINED, ALL INCLUSIVE). ALL WYES, COUPLINGS, BENDS AND FITTINGS SHALL BE INCIDENTAL TO THE ASSOCIATED DUCTILE IRON PIPE ITEMS. ALL WATER MAIN CONNECTIONS, TEMPORARY WATER SERVICE, AND ABANDONMENT SHALL BE PAID UNDER ITEM 624.42 TRANSFER TO NEW SYSTEM, WATER SYSTEM.

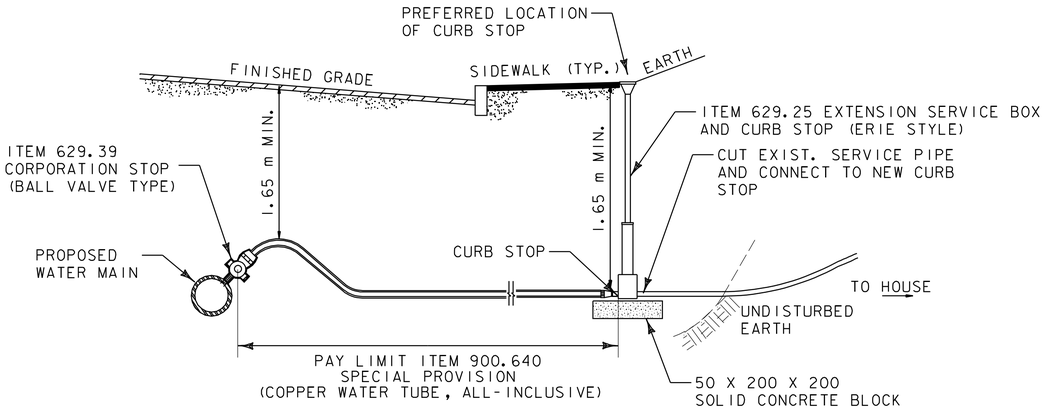
2	AUG. 2016	UPDATED PLAN SET
1	JAN. 2006	MODIFIED TO ADDRESS APRIL 18, 2005 WATER SUPPLY DIVISION COMMENTS

WATER/SEWER DETAILS

PROJECT NAME: BRANDON
PROJECT NUMBER: NH 019-3(496)

FILE NAME: zb008s6-swrdet.dgn
PROJECT LEADER: C. BEAN
DESIGNED BY: M. HALEY
PLOT DATE: 2/23/2017
DRAWN BY: W. GORDON
CHECKED BY: D. LEWIS
SHEET 248 OF 601

CLD 02-0448 MODEL: 5



NOTES:

1. INSTALLED SERVICE SIZE BASED ON EXISTING SERVICE LINE SIZE OR AS DIRECTED BY ENGINEER. COMPRESSION FITTINGS SHALL BE USED.

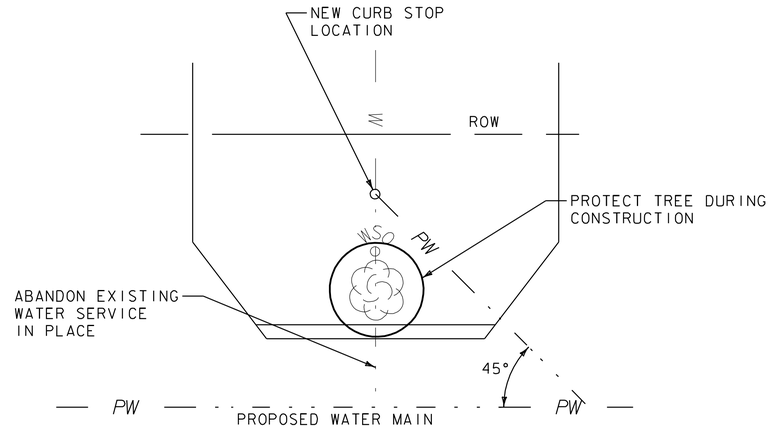
2. IF 1.65 m COVER CANNOT BE ACHIEVED, INSTALL BOARD TYPE INSULATION SUITABLE FOR UNDERGROUND INSTALLATION TO CORPORATION STOP.

3. CURB BOX TO BE INSTALLED SUCH THAT ITS COVER IS FREE OF ANY OBSTRUCTIONS.

4. APPROXIMATE LOCATION OF EXISTING CURB STOPS HAVE BEEN SHOWN ON THE WATER/SEWER PLANS (DEPICTED AS BOLD WSO) TO INDICATE WHERE NEW SERVICE CONNECTIONS ARE REQUIRED. NOT ALL EXISTING CURB STOPS WERE FOUND. CONTRACTOR SHALL COORDINATE WITH BRANDON FIRE DISTRICT TO VERIFY EXISTING AND PREFERRED NEW LOCATIONS FOR SERVICE CONNECTIONS BASED ON ACTUAL LOCATION OF EXISTING CURB STOP AND FIELD CONDITIONS.

TYPICAL WATER SERVICE DETAIL

ISSUED FOR CONSTRUCTION

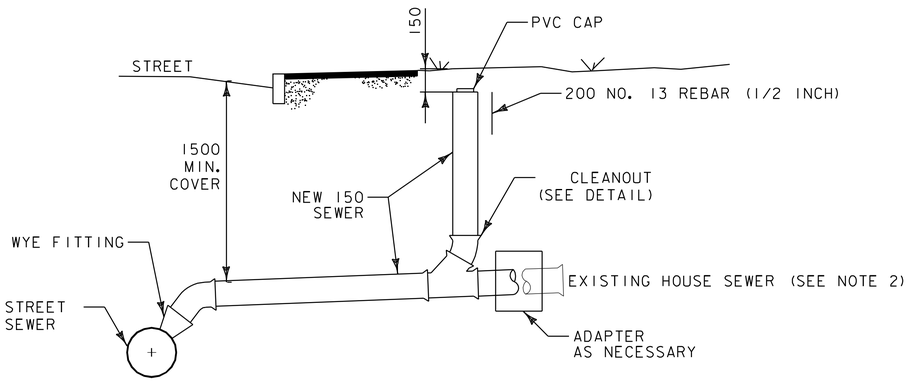


NOTES:

1. CONTRACTOR TO COORDINATE UTILITY WORK WITH LANDSCAPE PLANS.

2. THIS CONFIGURATION MAY BE USED WHERE EXISTING WATER SERVICE IS CLOSE TO TREES TO BE PROTECTED.

ALTERNATIVE WATER SERVICE PLAN



NOTES:

1. JOINTS SHALL HAVE A NEOPRENE OR ELASTOMERIC GASKET FOR WATERTIGHTNESS. ALL JOINTS SHALL BE PROPERLY MATCHED WITH THE PIPE MATERIALS USED. WHERE DIFFERING MATERIALS ARE TO BE CONNECTED, APPROPRIATE ADAPTERS SHALL BE USED.

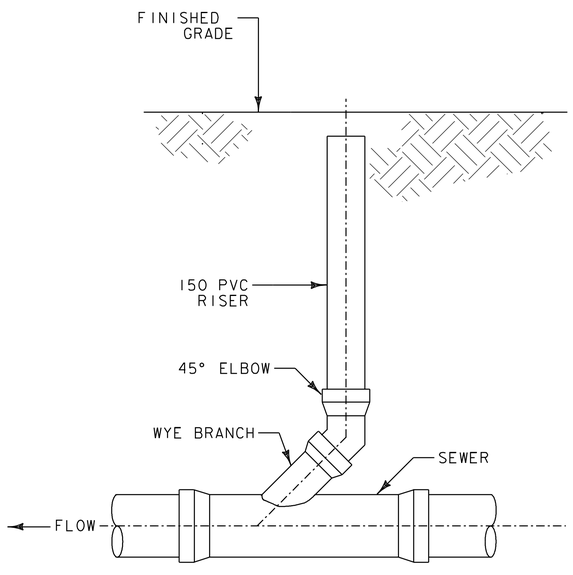
2. THE CONTRACTOR SHALL EXCAVATE, REMOVE, AND REPLACE ALL EXISTING PIPE THAT IS DAMAGED BACK TO SOLID PIPE AS APPROVED BY THE ENGINEER.

3. APPROXIMATE LOCATION OF EXISTING SEWER SERVICES HAVE BEEN SHOWN ON THE WATER/SEWER PLANS BASED ON VIDEO INSPECTIONS TO INDICATE WHERE NEW SERVICE CONNECTIONS ARE REQUIRED. NOT ALL EXISTING SERVICES ARE SHOWN. CONTRACTOR SHALL COORDINATE WITH THE TOWN TO VERIFY EXISTING AND PREFERRED NEW LOCATIONS FOR SERVICE CONNECTIONS AND THE NEED FOR NEW CLEANOUTS BASED ON FIELD CONDITIONS.

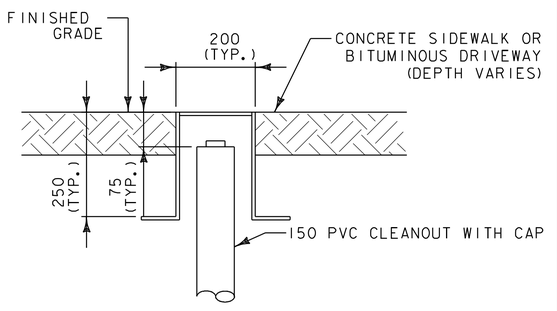
4. ALL MATERIALS AND WORK DEPICTED THIS DETAIL SHALL BE PAID FOR UNDER ITEM 900.640 SPECIAL PROVISION (SDR-35 PVC, ALL-INCLUSIVE) (150 SEWER SERVICE)

NOT TO SCALE

TYPICAL SEWER SERVICE DETAIL



SEWER CLEANOUT



NOTE:

1. PROVIDE CAST IRON TOP HAT STYLE CLEANOUT COVER WHERE CLEANOUT IS LOCATED IN SIDEWALK OR DRIVEWAY. COSTS ASSOCIATED WITH THIS WORK SHALL BE INCIDENTAL TO SEWER INSTALLATION.

TOP HAT DETAIL

3	JAN. 2017	REVISED TYPICAL WATER SEWER DETAIL
2	AUG. 2016	UPDATED PLAN SET
1	JAN. 2006	MODIFIED TO ADDRESS APRIL 18, 2005 WATER SUPPLY DIVISION COMMENTS

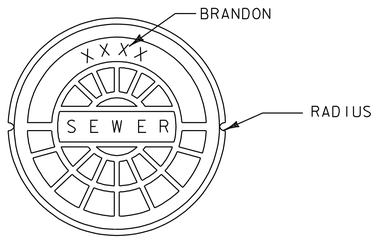
WATER/SEWER DETAILS

PROJECT NAME: BRANDON
PROJECT NUMBER: NH 019-3(496)

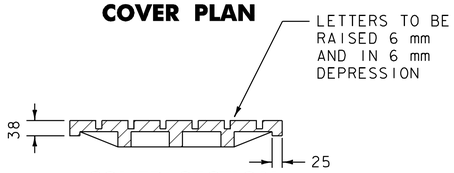
FILE NAME: zb008s6-swrdet.dgn
PROJECT LEADER: C. BEAN
DESIGNED BY: M. HALEY
PLOT DATE: 2/23/2017
DRAWN BY: W. GORDON
CHECKED BY: D. LEWIS
SHEET 249 OF 601

CLD 02-0448 MODEL: 6

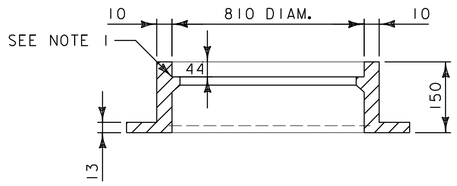
ISSUED FOR CONSTRUCTION



COVER PLAN



COVER SECTION



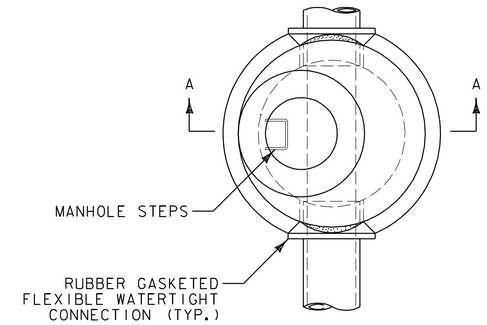
FRAME SECTION

NOTES:

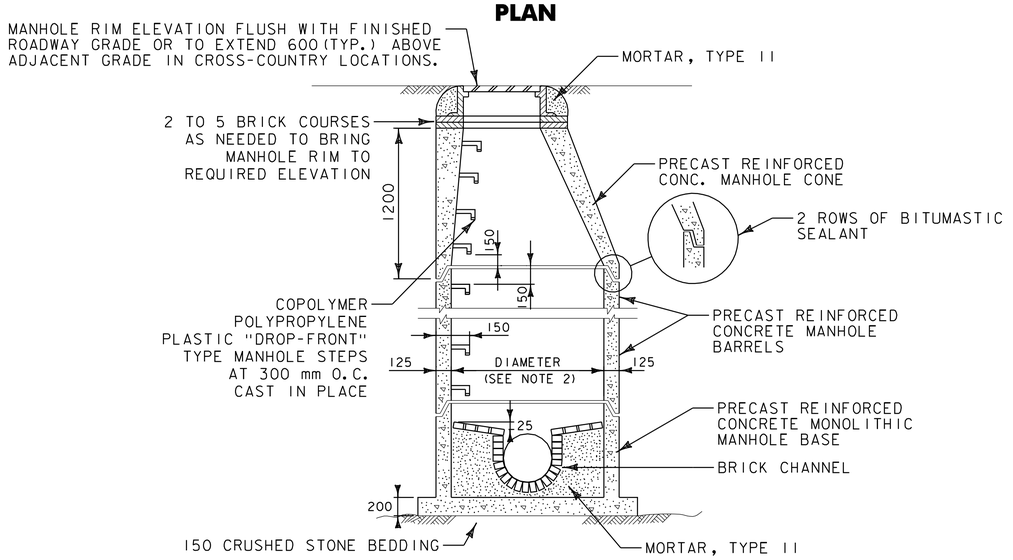
1. PROVIDE MANHOLE ADJUSTING RING WHEN REQUIRED TO BRING COVER UP TO WEARING COURSE SURFACE. ADJUSTING RING SHALL BE PAID FOR UNDER ITEM 604.56 CAST IRON COVER WITH FRAME, SEWER

MANHOLE FRAME AND COVER DETAIL

NOT TO SCALE



PLAN



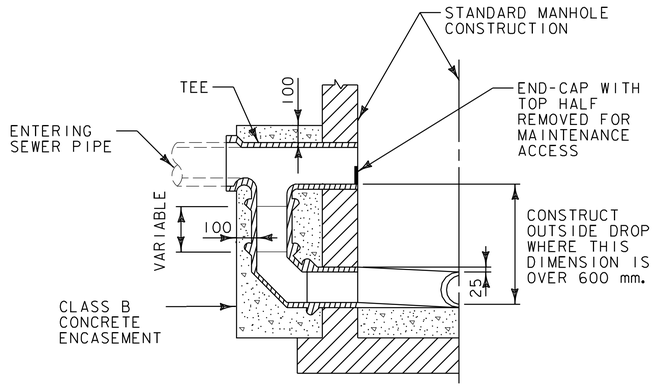
SECTION A–A

NOTES:

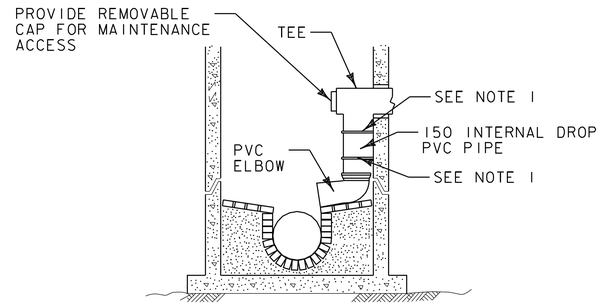
1. ALL MATERIALS AND WORK DEPICTED THIS DETAIL SHALL BE PAID FOR UNDER ITEM 900.620 SPECIAL PROVISION (SANITARY MANHOLE, ALL-INCLUSIVE) AND ITEM 604.56 CAST IRON COVER WITH FRAME, SEWER.

2. ALL NEW SANITARY SEWER MANHOLES SHALL HAVE 1200 INNER DIAMETER UNLESS NOTED OTHERWISE ON THE WATER/SEWER PLANS.

PRECAST REINFORCED CONCRETE SANITARY SEWER MANHOLE



OUTSIDE MANHOLE DROP DETAIL



NOTE:

1. MINIMUM TWO STAINLESS STEEL STRAPS TO BE SECURED TO RECESSED STAINLESS STEEL 8 DIA. ROD UTILIZED AS A STRAP LOOP.

INSIDE MANHOLE DROP DETAIL FOR FORCE MAIN DISCHARGE ONLY

2	AUG. 2016	UPDATED PLAN SET
1	JAN. 2006	MODIFIED TO ADDRESS APRIL 18, 2005 WATER SUPPLY DIVISION COMMENTS

WATER/SEWER DETAILS

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PROJECT NUMBER: NH 019-3(496)

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PROJECT LEADER: C. BEAN
DESIGNED BY: M. HALEY

PLOT DATE: 2/23/2017
DRAWN BY: W. GORDON
CHECKED BY: D. LEWIS
SHEET 250 OF 601

CLD 02-0448 MODEL: 7

ISSUED FOR CONSTRUCTION

VAOT Metric

EXISTING WATER MAIN AND SEWER SHOWN AS BOLD ON THIS SHEET WAS INSTALLED UNDER PREVIOUS PROJECT NH 019-3(495). EXISTING WATER MAIN SHOWN AS BOLD IS CURRENTLY ACTIVE AND SHALL BE RETAINED. EXISTING SEWER SHOWN BOLD IS NOT ACTIVE (INSTALLED DRY UNDER PREVIOUS PROJECT). CONTRACTOR SHALL PROTECT AND MAINTAIN EXISTING ACTIVE SEWER UNTIL NEW SEWER IS INSTALLED AND ACCEPTED PRIOR TO DIRECTING FLOWS TO NEW SEWER AND ABANDONING/ REMOVING EXISTING SEWER.

VT STATE PLANE GRID N

REMOVE HYDRANT
20+789.2 LT

SPECIAL PROVISION (MUELLER HYDRANT)
20+789.2 LT

CHANGING ELEVATION OF SEWER MANHOLES
20+747.4 LT
20+807.2 LT

20+735.617
BEGIN APPROACH

20+778.000
END APPROACH
BEGIN PROJECT
NH 019-3(496)

EXIST. SMH-A2 (INACTIVE)
RIM=146.393
INV IN(E)=143.984
INV OUT(NW)=143.375
OUTSIDE DROP

EXIST. SEWER (ACTIVE)
EXIST. SEWER (INACTIVE)
EXIST. WATER (ACTIVE)

EXIST. WATER (ABANDONED)

EXIST. WATER (ACTIVE)
EXIST. WATER (ABANDONED)

LOCATE AND CONNECT EXIST. SEWER TO EXIST. STUB AT SMH-A1. PIPE SIZE SHALL MATCH EXISTING

EXIST. SMH-A1 (INACTIVE)
RIM=147.017
INV IN(E)=145.910
INV OUT(W)=145.160
INLET PIPE IS CAPPED STUB

LOCATE AND CONNECT EXIST. SEWER SERVICE TO LATERAL INSTALLED UNDER NH 019-3(495)

EXIST. SMH (ACTIVE)
RIM=144.576
INV IN (SW)=143.449
INV IN (SE)=143.494
INV OUT(NW)=143.424

150 mm WATER SERVICE. CONNECT TO EXISTING SERVICE. SEE WATER CONNECTION DETAIL.

EXIST. SMH-A3 (INACTIVE)
RIM=143.556
INV IN (SE)=140.833
INV OUT (NW)=140.670 (CORE)

CONNECT TO WATER MAIN INSTALLED UNDER NH 019-3(495). ADJUST PROPOSED ALIGNMENT TO MATCH EXIST. WITH MAX. DEFLECTION PER MANUFACTURER'S INSTALLATION INSTRUCTIONS. SEE WATER CONNECTION DETAIL.

LOCATE AND CONNECT EXIST. SEWER SERVICE TO LATERAL INSTALLED UNDER NH 019-3(495)

MATCH LINE 20+815

POT 20+777.617 BK
POT 20+778.000 AHD =
EQ. = -0.383 m

LEGEND

EXISTING SEWER MAIN	S
EXISTING WATER MAIN	W
PROPOSED WATER MAIN	PW
PROPOSED HYDRANT	
EXISTING WATER SHUT OFF VALVE (CURB STOP) TO BE REPLACED (SEE NOTE BELOW)	WSO
PROPOSED SEWER FORCE MAIN OR LATERAL	PS
PROPOSED SEWER AND SEWER MANHOLE	S

NOTE:
WSO SYMBOL INDICATES THAT A NEW CURB STOP IS REQUIRED. NOT ALL EXISTING CURB STOPS ARE SHOWN ON THE PLANS. CONTRACTOR SHALL VERIFY LOCATIONS IN THE FIELD. SEE TYPICAL WATER SERVICE CONNECTION DETAIL.

0 10 20 30
SCALE IN METERS

2	AUG. 2016	UPDATED PLAN SET
1	JAN. 2006	MODIFIED TO ADDRESS APRIL 18, 2005 WATER SUPPLY DIVISION COMMENTS

WATER / SEWER PLAN 1

PROJECT NAME: BRANDON
PROJECT NUMBER: NH 019-3(496)

FILE NAME: zb008s6-swr.dgn
PROJECT LEADER: C. BEAN
DESIGNED BY: M. HALEY
PLOT DATE: 2/23/2017
DRAWN BY: M. HALEY
CHECKED BY: D. LEWIS
SHEET 251 OF 601

CLD 02-0448 MODEL:1

ISSUED FOR CONSTRUCTION

VAOT Metric

VT STATE PLANE GRID N

REMOVE HYDRANT
20+901.5 LT

SPECIAL PROVISION (MUELLER HYDRANT)
20+855.0 RT

NOTES:

1. PROVIDE NEW WATER SERVICE. SEE TYPICAL WATER SERVICE DETAIL. ABANDON EXIST. SERVICE.
2. PROVIDE NEW SEWER SERVICE. SEE TYPICAL SEWER SERVICE DETAIL. ABANDON EXIST. SERVICE.

PERFORM EXPLORATORY EXCAVATION AND CONNECT TO EXIST. SEWER WITH ECCENTRIC REDUCER

BM #3
TOP OF S.E. SIGN BASE BOLT
ELEV. = 142.979 m

EXIST. SMH
RIM=140.414
INV IN (SE)=138.997
INV IN (NE)=NOT SURVEYED
INV OUT (SW)=138.967

MH-A4 (1500 DIA.)
RIM=140.153
INV IN (SE)=137.700
INV IN (NE)=137.725
INV OUT (SW)=137.670

INSTALL 90 DEG. TEE
200 mm x 200 mm

SEE WATER PROFILE 1

INSTALL 45 DEG. BEND

SEE HIGH STREET CROSS SECTIONS FOR WATER MAIN INVERTS

CONNECT TO EXIST. WATER WITH TWO 45 DEG. BENDS

NOTE 1

NOTE 2

PROVIDE NEW 150 SERVICE, GATE VALVE AND CAPPED STUB.

MH-A6
RIM=141.800
INV OUT (W)=140.100
CONNECT TO EXIST. SEWER (NE)
MATCH EXIST. PIPE DIAMETER
DO NOT DISTURB SHRUBS

MH-A5
RIM=141.700
INV IN (E)=140.050
INV OUT (SW)=139.000

40 + 070.000
LIMIT OF WORK

MATCH LINE 20+815

MATCH LINE 20+950

0 10 20 30
SCALE IN METERS

3	JAN. 2017	MODIFIED SEWER ALIGNMENT FROM MH-A4 TO MH-A6
2	AUG. 2016	UPDATED PLAN SET
1	JAN. 2006	MODIFIED TO ADDRESS APRIL 18, 2005 WATER SUPPLY DIVISION COMMENTS

WATER / SEWER PLAN 2

PROJECT NAME: BRANDON
PROJECT NUMBER: NH 019-3(496)

FILE NAME: zb008s6-swr.dgn
PROJECT LEADER: C. BEAN
DESIGNED BY: M. HALEY
PLOT DATE: 2/23/2017
DRAWN BY: M. HALEY
CHECKED BY: D. LEWIS
SHEET 252 OF 601

CLD 02-0448 MODEL: 2

ISSUED FOR CONSTRUCTION

VAOT Metric

VT STATE PLANE GRID N

REMOVE HYDRANT
21+031.9 LT

SPECIAL PROVISION (MUELLER HYDRANT)
21+005.0 RT

MATCH LINE 20+950

MATCH LINE 21+070

MH-B1
RIM=127.321
INV IN (NE)=125.845
CONNECT TO
EXIST. SEWER

INSTALL 45 DEG.
BEND (2 LOCATIONS)

EXIST. SMH
RIM=129.718
INV IN (NW)=127.738
INV IN (NE)=127.798
INV OUT(SE)=127.722

MH-B2
RIM=129.697
INV IN (NW)=127.237
INV OUT (SE)=127.100
CONNECT TO EXIST.
SEWER (NE)

SEE WATER PROFILE 1

WL 90+148.151 LT
US 7 21+028.549 LT
PI 90+143.168

53+000

90+143.168 53+020

HYD-4

200 mm PVC

200 mm DI

200 VCP S

150 VCP

GRAVEL
WOODS
PAVED
CONC.
CONC. CURB
WD. WALL
WD. EDGING
WD. RET. WALL
STN. WALL
IRON PIPE
SHRUB
LILACS
L. MAPLE
M. MAPLE
S. MAPLE
S. APPLE
S. CR. APPLE
S. SPRUCE
M. B. NUT
S. ASH
M. B. ELDER
S. B. ELDERS
GARAGE
LIGHT
WIRE
1½SWF
2 SWF

0 10 20 30
SCALE IN METERS

2	AUG. 2016	UPDATED PLAN SET
1	JAN. 2006	MODIFIED TO ADDRESS APRIL 18, 2005 WATER SUPPLY DIVISION COMMENTS

WATER / SEWER PLAN 3

PROJECT NAME: BRANDON
PROJECT NUMBER: NH 019-3(496)

FILE NAME: zb0088s6-swr.dgn
PROJECT LEADER: C. BEAN
DESIGNED BY: M. HALEY
PLOT DATE: 2/23/2017
DRAWN BY: M. HALEY
CHECKED BY: D. LEWIS
SHEET 253 OF 601

CLD 02-0448 MODEL: 3

ISSUED FOR CONSTRUCTION

VAOT Metric

VT STATE PLANE GRID N

SPECIAL PROVISION (MUELLER HYDRANT)
21+155.8 LT

MATCH LINE 21+070

MATCH LINE 21+210

INSTALL 11-1/4 DEG. BEND

INSTALL 11-1/4 DEG. BEND

MH-B3
RIM=130.738
INV IN (NW)=128.426
INV OUT (SE)=128.384

MH-B4
RIM=132.310
INV OUT (SE)=130.000

MH-C1
RIM=132.651
INV OUT (NW)=130.951

TRAV. PT. #2
VTGS DISK IN CONC. MON.
"GRIFFIN 1997"

US 7

HYD-5

200 mm DI

200 mm PVC

200 VCP/150 HDPE

100 CI

21+080 21+100 21+120 21+140 21+160 21+180 21+200

53+060 53+080 53+100

54+000 54+020 54+040 54+060

2	AUG. 2016	UPDATED PLAN SET
1	JAN. 2006	MODIFIED TO ADDRESS APRIL 18, 2005 WATER SUPPLY DIVISION COMMENTS

0 10 20 30
SCALE IN METERS

WATER / SEWER PLAN 4

PROJECT NAME: BRANDON
PROJECT NUMBER: NH 019-3(496)

FILE NAME: zb008s6-swr.dgn
PROJECT LEADER: C. BEAN
DESIGNED BY: M. HALEY
PLOT DATE: 2/23/2017
DRAWN BY: M. HALEY
CHECKED BY: D. LEWIS
SHEET 254 OF 601

CLD 02-0448 MODEL: 4

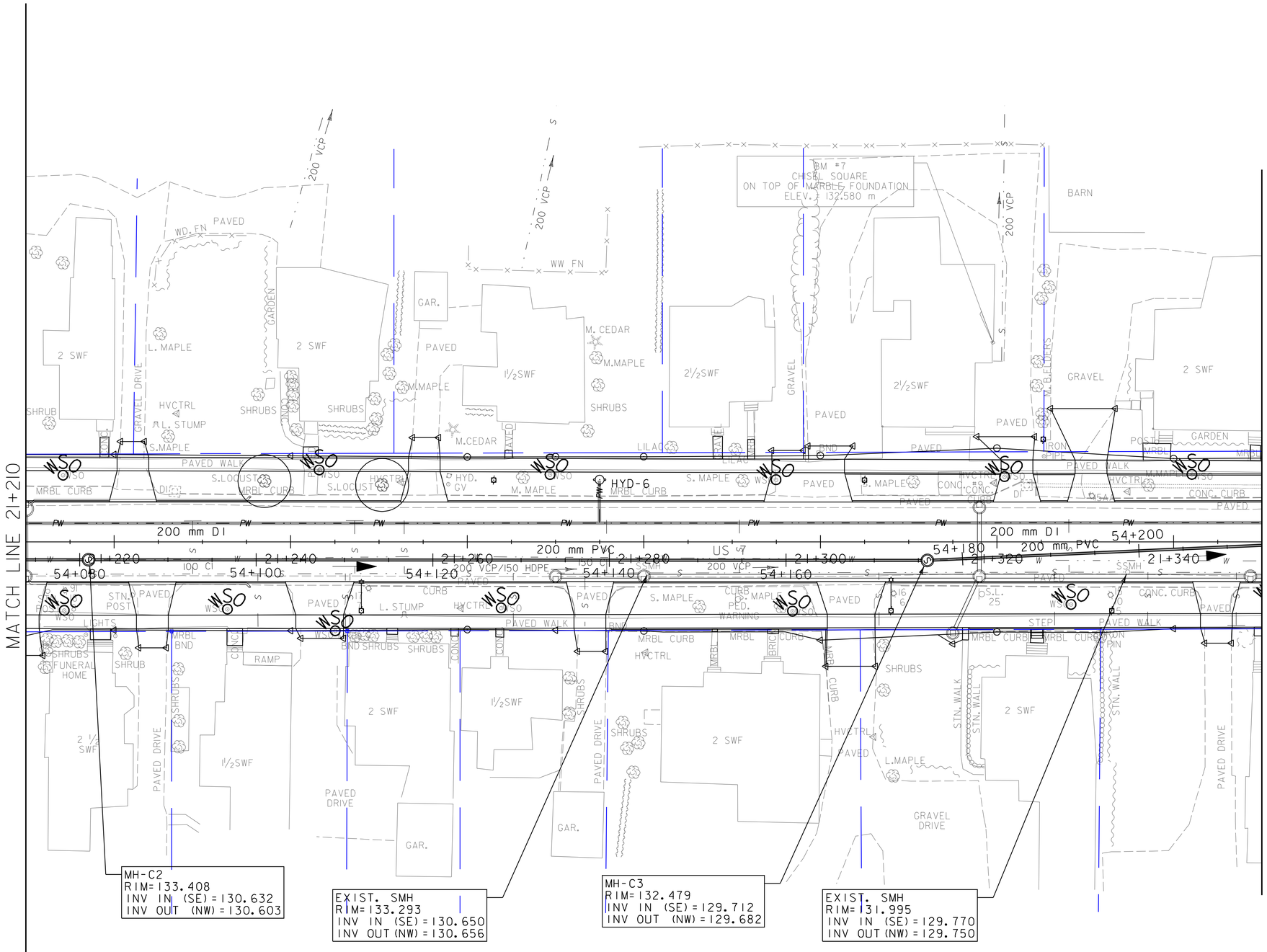
ISSUED FOR CONSTRUCTION

VAOT Metric

VT STATE PLANE GRID N

REMOVE HYDRANT
21+257.9 LT

SPECIAL PROVISION (MUELLER HYDRANT)
21+275.0 LT



0 10 20 30
SCALE IN METERS

2	AUG. 2016	UPDATED PLAN SET
1	JAN. 2006	MODIFIED TO ADDRESS APRIL 18, 2005 WATER SUPPLY DIVISION COMMENTS

WATER / SEWER PLAN 5

PROJECT NAME: BRANDON
PROJECT NUMBER: NH 019-3(496)

FILE NAME: zb008s6-swr.dgn
PROJECT LEADER: C. BEAN
DESIGNED BY: M. HALEY
PLOT DATE: 2/23/2017
DRAWN BY: M. HALEY
CHECKED BY: D. LEWIS
SHEET 255 OF 601

CLD 02-0448 MODEL: 5

ISSUED FOR CONSTRUCTION

VT STATE PLANE GRID N

Metric

REMOVE HYDRANT
21+405.4 LT

MH-C4
RIM= 131.115
INV IN (SE) = 127.827
INV OUT (NW) = 127.797

MATCH LINE 21+410

MATCH LINE 36+070

EXIST. SMH
RIM= 133.485
INV IN (E) = 130.865
INV OUT (W) = 130.835

MH-C11
RIM= 133.485
INV OUT (W) = 130.835
CONNECT TO
EXIST. SEWER (E)

INSTALL 11-1/4 DEG.
BEND (2 LOCATIONS)

MH-C12
RIM= 133.090
INV IN (E) = 130.165
INV OUT (W) = 130.141

SEE PARK STREET WATER MAIN
INTERCONNECT DETAIL

36 + 120.000
LIMIT OF WORK

VT 73
TH-3

2	AUG. 2016	UPDATED PLAN SET
1	JAN. 2006	MODIFIED TO ADDRESS APRIL 18, 2005 WATER SUPPLY DIVISION COMMENTS

0 10 20 30
SCALE IN METERS

WATER / SEWER PLAN 6

PROJECT NAME: BRANDON
PROJECT NUMBER: NH 019-3(496)

FILE NAME: zb008s6-swr.dgn
PROJECT LEADER: C. BEAN
DESIGNED BY: M. HALEY
PLOT DATE: 2/23/2017
DRAWN BY: M. HALEY
CHECKED BY: D. LEWIS
SHEET 256 OF 601

CLD 02-0448 MODEL: 6

ISSUED FOR CONSTRUCTION

VAOT Metric

VT STATE PLANE GRID

MH-C5 (1800 DIA.)
RIM=130.691
INV IN (SE)=127.401
INV IN (N)=127.853
INV OUT (SW)=127.371

INSTALL ONE
45 DEG. BEND
AND ONE
22-1/2 DEG. BEND

SEE WATER PROFILE 1

INSTALL 90 DEG. TEE
300 mm x 300 mm
AND 300 mm x 200 mm
REDUCER

MATCH LINE 21+510

MATCH LINE 30+058

WL 70+052.000 =
LOT-A 30+047.846 LT 0.54 m

SPECIAL PROVISION (MUELLER HYDRANT)
21+419.0 RT
36+060.0 LT

MH-C14
RIM=131.552
INV IN (E)=128.041
INV OUT (S)=128.016

INSTALL 45 DEG. BENDS

MH-C13
RIM=131.475
INV IN (E)=129.016
INV OUT (W)=128.388

INSTALL 90 DEG. TEE
400 mm x 300 mm
AND 45 DEG. BEND

MATCH LINE 21+410

MATCH LINE 36+070

0 10 20 30
SCALE IN METERS

2	AUG. 2016	UPDATED PLAN SET
1	JAN. 2006	MODIFIED TO ADDRESS APRIL 18, 2005 WATER SUPPLY DIVISION COMMENTS

WATER / SEWER PLAN 7

PROJECT NAME: BRANDON
PROJECT NUMBER: NH 019-3(496)

FILE NAME: zb008s6-swr.dgn
PROJECT LEADER: C. BEAN
DESIGNED BY: M. HALEY
PLOT DATE: 2/23/2017
DRAWN BY: M. HALEY
CHECKED BY: D. LEWIS
SHEET 257 OF 601

CLD 02-0448 MODEL: 7

ISSUED FOR CONSTRUCTION

VAOT Metric

EXISTING WATER MAIN SHOWN AS BOLD ON THIS SHEET 30+101 TO 30+113 INSTALLED UNDER PHASE I CONSTRUCTION AND IS TO BE RETAINED. MAIN IS ACTIVE.

EXISTING WATER MAIN SHOWN AS BOLD ON UNION STREET INSTALLED 2016 AND IS TO BE RETAINED. MAIN IS ACTIVE.

VT STATE PLANE GRID

EXIST. SMH
RIM=130.078
INV IN (N)=126.983
INV IN (W)=127.288
INV OUT (S)=126.953

CONNECT TO EXIST. WATER WITH TWO 45 DEG. BENDS

BM #6 (STA 21+600.3 RT) USC & GS STANDARD DISC IN CONC MONUMENT STAMPED BRANDON 1955 ELEV. = 131.180 m

MH-C8
RIM=130.170
INV IN (NE)=127.057
INV OUT (S)=127.027

MH-C7 (1800 DIA.)
RIM=130.405
INV IN (NE)=127.161
ASSUMED INV IN (N)= 127.718
INV OUT (SW)=127.131

INSTALL ONE 45 DEG. BEND

MH-C10
CONNECT TO EXIST. SEWER (N).
CONNECT TO MH-C7 AT MIN SLOPE OF 0.4%.
RIM=130.740
ASSUMED INV OUT=128.000
COORDINATE FOUNTAIN DRAIN INVERT WITH FOUNTAIN CONSTRUCTION.
SEE SPECIAL PROVISION.

REMOVE HYDRANT
21+533.9 RT
35+053.6 RT

SPECIAL PROVISION (MUELLER HYDRANT)
30+098.9 LT
34+064.7 RT
35+033.3 RT
35+035.1 LT

MATCH LINE 21+65

MATCH LINE 30+149

APPROX. LOCATION OF PROPOSED 100 mm PVC DRAINS FOR FOUNTAINS

CONNECT TO EXIST. WATER WITH 90 DEG. TEE 300 X 100 mm

APPROX. LOCATION OF PROPOSED 25 mm WATER SERVICE TO FOUNTAINS

NOTES:

1. LOCATE EXIST. SEWER SERVICES NEAR STA 30+058 AND STA 30+078. INSTALL 150 mm PVC SEWER FROM APPROX. STA 30+058 TO STA 30+082 WITH MIN. 0.6% SLOPE DIRECTED TOWARD MH-C15. INVERT IN AT MH-C15 SHALL BE DETERMINED IN THE FIELD. INTERCEPT EXIST. SEWER AT STA 30+058 AND STA 30+078 WITH WYES. PROVIDE CLEANOUT WITH TOP HAT COVER IN SIDEWALK AT STA 30+058 (SEE DETAIL).
2. PLAN 8A DELETED FROM PLAN SET. NEW 400 DI WATER MAIN BUILT IN 2014 BY J.A. McDONALD.

CONNECT TO EXIST. 300 mm WATER

PHASE I WATER MAIN (ACTIVE)

BRANDON INN ALLEY

CONNECT TO EXIST. 400 mm WATER. REMOVE EXIST. VALVE BOX (RETAIN VALVE) AT 310 mm WATER.

SEE WATER PROFILE I

MH-C15
RIM=131.464
INV IN (E)= SEE NOTE 1
INV OUT (S)=127.601

NOTE 1

EXIST. SMH
RIM=130.667
INV IN (E)=128.262
INV IN (NE)=128.242
INV OUT (SW)=128.227

NOTE 1

35 + 066.000
LIMIT OF WORK

MH-C9
RIM=130.078
INV IN (N)=126.983
CONNECT TO EXIST. SEWER (SW)

INSTALL 90 DEG. TEE 300 mm x 300 mm AND ONE 300 mm x 200 mm REDUCER. INSTALL ONE 22-1/2 DEG. BEND ON US 7 (N) SIDE

INSTALL ONE 22-1/2 DEG. BEND

INSTALL 90 DEG. TEE 300 mm x 200 mm

MH-C6 2 SWF
RIM=130.405
INV IN (NE)=127.288
INV IN (N)=127.438
INV OUT (SW)=127.258

CONNECT TO EXIST. WATER WITH ONE 200 mm x 150 mm REDUCER

SEE PLAN 8B

MATCH LINE 21+510

MATCH LINE 30+058

0 10 20 30
SCALE IN METERS

2	AUG. 2016	UPDATED PLAN SET
1	JAN. 2006	MODIFIED TO ADDRESS APRIL 18, 2005 WATER SUPPLY DIVISION COMMENTS

WATER / SEWER PLAN 8

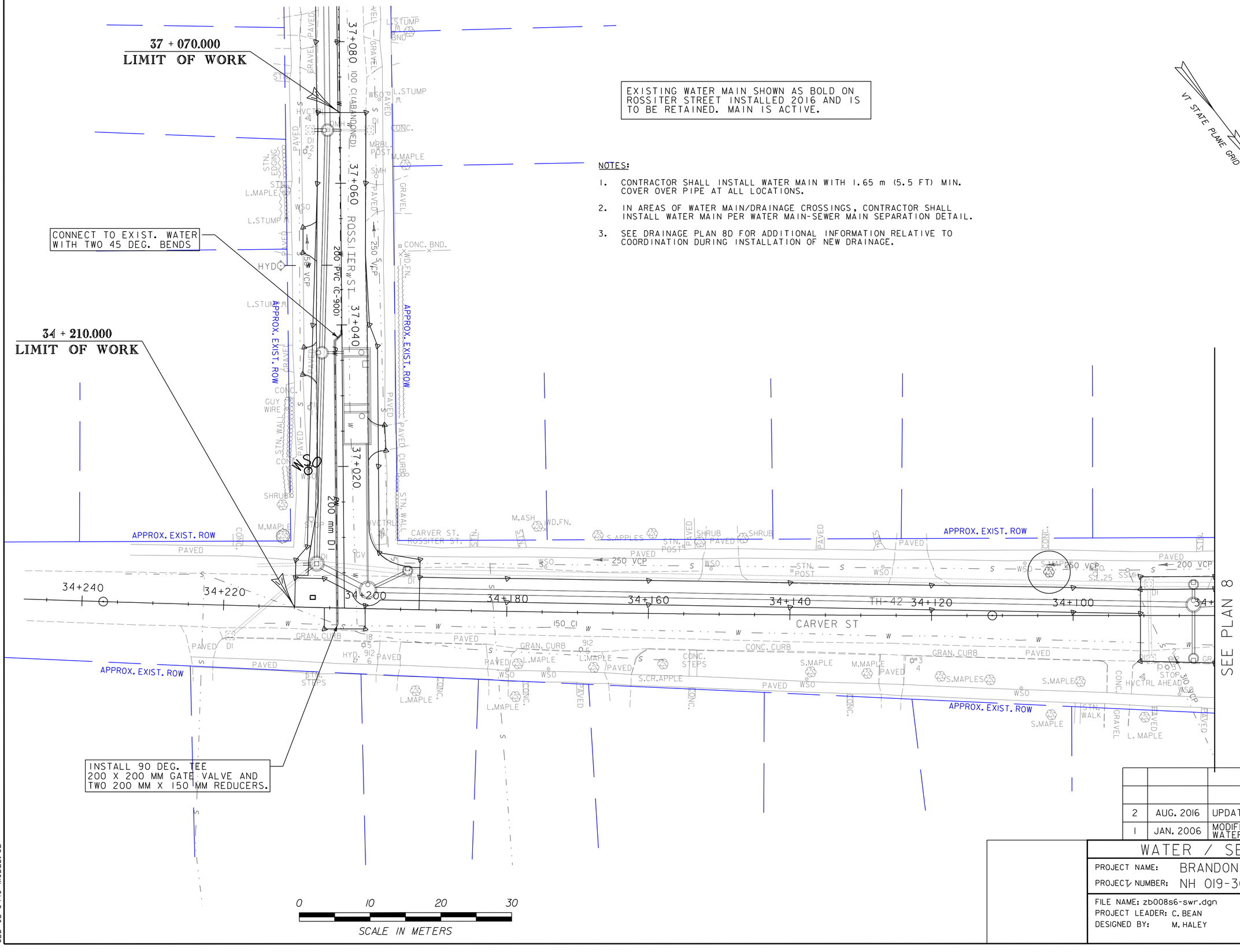
PROJECT NAME: BRANDON
PROJECT NUMBER: NH 019-3(496)

FILE NAME: zb008s6-swr.dgn
PROJECT LEADER: C. BEAN
DESIGNED BY: M. HALEY
PLOT DATE: 2/23/2017
DRAWN BY: M. HALEY
CHECKED BY: D. LEWIS
SHEET 258 OF 601

CLD 02-0448 MODEL: 8

ISSUED FOR CONSTRUCTION

VAOT Metric



2	AUG. 2016	UPDATED PLAN SET
1	JAN. 2006	MODIFIED TO ADDRESS APRIL 18, 2005 WATER SUPPLY DIVISION COMMENTS

WATER / SEWER PLAN 8B

PROJECT NAME: BRANDON

PROJECT NUMBER: NH 019-3(496)

FILE NAME: zb008s6-swr.dgn
PROJECT LEADER: C. BEAN
DESIGNED BY: M. HALEY

PLOT DATE: 2/23/2017
DRAWN BY: M. HALEY
CHECKED BY: D. LEWIS
SHEET 259 OF 601

CLD 02-0448 MODEL: 8B

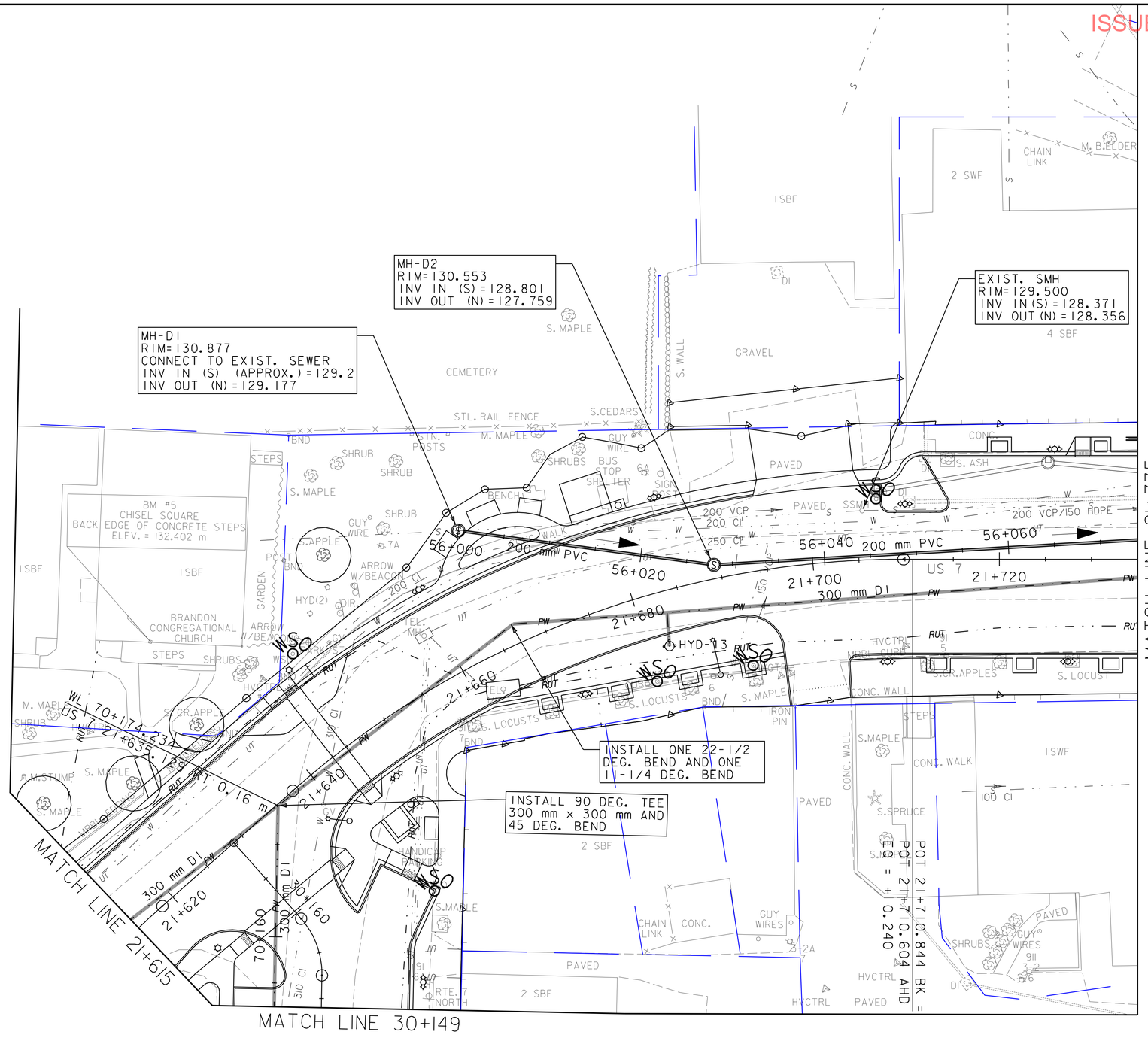
ISSUED FOR CONSTRUCTION

VAOT Metric

VT STATE PLANE GRID N

REMOVE HYDRANT
21+649.8 LT
21+652.6 LT

SPECIAL PROVISION (MUELLER HYDRANT)
21+682.5 RT


MH-D1
RIM=130.877
CONNECT TO EXIST. SEWER
INV IN (S) (APPROX.)=129.2
INV OUT (N)=129.177
MH-D2
RIM=130.553
INV IN (S)=128.801
INV OUT (N)=127.759
EXIST. SMH
RIM=129.500
INV IN(S)=128.371
INV OUT(N)=128.356
INSTALL ONE 22-1/2 DEG. BEND AND ONE 11-1/4 DEG. BEND
INSTALL 90 DEG. TEE 300 mm x 300 mm AND 45 DEG. BEND
56+000
200 mm PVC
56+020
56+040 200 mm PVC
56+060
21+640
21+660
21+680
21+700
300 mm DI
21+720
21+620
21+615
MATCH LINE 21+615
MATCH LINE 30+149
MATCH LINE 21+735
POT 21+710.844 BK = (EQ = +0.240) POT 21+710.604 AHD
BM #5
CHISEL SQUARE
BACK EDGE OF CONCRETE STEPS
ELEV. = 132.402 m
BRANDON CONGREGATIONAL CHURCH
CEMETERY
GRAVEL
PAVED
CONC. WALK
CONC. WALL
STL. RAIL FENCE
STN. POSTS
BND
S. MAPLE
M. MAPLE
S.CEDARS
S. ASH
S.APPLE
S.CR.APPLE
S. LOCUSTS
S.SPRUCE
SHRUB
SHRUBS
BUS STOP SHELTER
BENCH
GUY WIRE
GUY WIRES
CHAIN LINK
IRON PIN
STEPS
GARDEN
POST
ARROW W/BEACON
HYD(2)
HYD-13
HVCTRL
TEL. MH
S. WALL
M. BEEDER
CHAIN LINK
2 SWF
4 SBF
2 SBF
1 SWF
100 CI
200 CI
250 CI
310 CI
200 VCP
200 VCP/150 HDPE
SSMH
US 7
RTE. 7 NORTH
WL 70+174.234
US 7 21+635.129 RT 0.16 m
70+160
300 mm DI
0+160
0+180
0+200
0+220
0+240
0+260
0+280
0+300
0+320
0+340
0+360
0+380
0+400
0+420
0+440
0+460
0+480
0+500
0+520
0+540
0+560
0+580
0+600
0+620
0+640
0+660
0+680
0+700
0+720
0+740
0+760
0+780
0+800
0+820
0+840
0+860
0+880
0+900
0+920
0+940

ISSUED FOR CONSTRUCTION

VAOT Metric

REMOVE HYDRANT
21+746.7 LT
21+784.7 LT

SPECIAL PROVISION (MUELLER HYDRANT)
21+746.7 LT
21+802.9 RT
9+012.6 LT

VT STATE PLANE GRID N

EXISTING WATER MAIN SHOWN AS BOLD ON THIS SHEET INSTALLED UNDER PHASE I CONSTRUCTION AND IS TO BE RETAINED. MAIN IS ACTIVE.

MH-D5
TO B INSTALLED
UNDER BHF 019-3(58)
RIM=126.156
INV IN (E)=123.627
INV OUT (NW)=123.591

MH-D6
TO BE INSTALLED
UNDER BHF 019-3(58)
RIM=125.945
INV IN (SE)=123.314
INV OUT (NW)=123.226

EXIST. PENSTOCK
INV OF CASING = 124.757
INV OF EXIST.
200 CI WATER = 125.200
SEE NOTE 1

MH-E3
RIM=125.500
INV IN (NE)=123.250
INV OUT (NW)=122.300

EXIST. SMH
RIM=125.714
INV IN (NE)= 123.949
INV OUT (NW)=123.884

INSTALL 45 DEG. BEND

NOTE 1

NOTE 2

NOTE 3

NOTE 4

NOTE 5

NOTE 6

NOTE 7

PHASE I WATER MAIN (ACTIVE)

MH-D3
RIM=128.120
INV IN (S)=125.764
INV OUT (N)=125.465

REMOVE EXISTING HYDRANT AND INSTALL HYD-14

MH-E2A
RIM=127.700
INV IN (NE)=125.480
INV OUT (SW)=125.384

MH-E2
RIM=130.860
INV IN (NE)=128.986
INV OUT (SW)=128.126

INSTALL 150/300 REDUCER

EXIST. SMH
RIM=127.720
INV IN (SE)= 125.320
INV OUT (NW)=125.290

MH-D4
RIM=126.853
INV IN (S)=124.210
INV OUT (W)=124.180

PROPOSED OVERFLOW CULVERT (BY OTHERS)

MH-E1
RIM=134.000
INV OUT (SW)=132.000
CONNECT TO EXIST. SEWER

9+090.000
LIMIT OF WORK

MATCH LINE 21+735

MATCH LINE 21+870

NOTES:

1. EXISTING ABANDONED PENSTOCK ACROSS US 7 CONTAINS ACTIVE WATER SERVICE TO BUILDING AT STA 21+770 RT AND TO BUILDING AT RIVER AT STA 21+790 LT. PENSTOCK UNDER US 7 SHALL BE REMOVED. PENSTOCK BEYOND LIMIT OF CONSTRUCTION SHALL BE RETAINED.

   RETAIN PENSTOCK AND SERVICE TO BUILDING AT STA 21+790 LT. CONNECT EXISTING SERVICE TO NEW WATER MAIN.

   REMOVE PENSTOCK AND SERVICE ACROSS US 7. PROVIDE SERVICE TO BUILDING AT STA 21+770 RT FROM NEW WATER MAIN.

2. EXISTING 200 mm AND 250 mm WATER MAINS CONTINUING UNDER PARK AND ACROSS RIVER WERE PREVIOUSLY CAPPED AND ABANDONED IN APPROXIMATE AREA SHOWN ON THIS PLAN. WATER SERVICE FOR TOWN OFFICES IS PROVIDED FROM WEST SEMINARY STREET MAIN. WATER SERVICE TO OTHER CUSTOMERS AT EAST END OF BUILDING (21+782 TO 21+810 RT) IS FROM SERVICE THAT CROSSES US 7 IN VICINITY OF 21+790 TO 21+810 FROM ACTIVE MAIN NEAR 21+770 LT. BRIDGE PROJECT BRF 019-3(58) MAY ENCOUNTER AND RELOCATE THIS NEW WATER SERVICE ON A TEMORARY BASIS. CONTRACTOR SHALL COORDINATE WITH BRANDON FIRE DISTRICT TO LOCATE EXISTING SERVICE AND SHALL PROVIDE PERMANENT WATER SERVICE FROM NEW MAIN AND NEW WATER SHUTOFF AT LOCATION DIRECTED BY THE ENGINEER.

3. MANHOLES MH-D5 AND MH-D6 AND ASSOCIATED SEWER PIPE WILL BE INSTALLED UNDER BHF 019-3(58) PROJECT. LOCATE AND CONNECT TO CAPPED END OF SEWER AT APPROX. STA 21+795 LT. ONCE NEW SEWER IS CONSTRUCTED, CUT AND CAP TEMPORARY CONNECTION OF EXIST. SEWER TO MH-D5 INSTALLED UNDER BHF 019-3(58) PROJECT.

4. TWO CORPORATIONS FOR SERVICES NEAR APPROX. STA 21+847 LT AND ONE 400 mm x 150 mm TEE AND GATE VALVE NEAR APPROX. STA 21+855 LT INSTALLED UNDER PHASE I CONSTRUCTION. CONTRACTOR TO LOCATE AND CONNECT EXISTING SERVICES FROM BUILDING TO PHASE I FITTINGS.

5. CONNECT TO EXISTING 400 mm WATER MAIN INSTALLED UNDER PHASE I CONSTRUCTION. ADJUST PROPOSED ALIGNMENT TO MATCH EXIST. WITH MAX. DEFLECTION PER MANUFACTURER'S INSTRUCTIONS. REMOVE EXIST. VALVE BOXES (RETAIN VALVES) AT EXIST. 200 mm VALVE NEAR APPROX. STA 21+867 LT AND AT EXIST. 250 mm VALVE NEAR APPROX. STA 21+862 RT.

6. 400 mm x 150 mm TEE AND GATE VALVE INSTALLED UNDER PHASE I CONSTRUCTION. CONNECT TO EXISTING WATER MAIN WITH NEW 150 mm WATER MAIN AND INSTALL NEW HYDRANT.

7. INSTALL NEW 200 MAIN FROM 400 MAIN TO LIMIT OF WORK AT DRIVEWAY. CONNECT TO TEE AT 400 MAIN. CONNECT TO EXIST. 200 MAIN WITH SOLID SLEEVE COUPLING. SEE WEST SEMINARY WATER PROFILE ON WATER PROFILE 1.

3	JAN. 2017	REVISED NOTE 2
2	AUG. 2016	UPDATED PLAN SET
1	JAN. 2006	MODIFIED TO ADDRESS APRIL 18, 2005 WATER SUPPLY DIVISION COMMENTS

0 10 20 30
SCALE IN METERS

WATER / SEWER PLAN 10

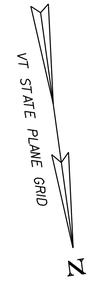
PROJECT NAME: BRANDON
PROJECT NUMBER: NH 019-3(496)

FILE NAME: zb008s6-swr.dgn
PROJECT LEADER: C. BEAN
DESIGNED BY: M. HALEY
PLOT DATE: 2/23/2017
DRAWN BY: M. HALEY
CHECKED BY: D. LEWIS
SHEET 26I OF 60I

CLD 02-0448 MODEL: IO

ISSUED FOR CONSTRUCTION

VAOT Metric



INSTALL 11-1/4 DEG. BEND

MH-E4
RIM=123.332
INV IN (E)=120.974
INV IN (N)=120.570
INV OUT (W)=120.200

NOTE 1

NOTE 2

NOTE 4

EXIST. SMH
RIM=118.3 (APPROX.)
INV IN(N)=116.6 (APPROX.)

MH-E5A
RIM=121.800
INV IN(N)=TBD
INV OUT(S)=117.720
CONNECT TO EXIST. SEWER

CONNECT TO EXIST.
25 mm WATER WITH
25 mm COPPER SERVICE

INSTALL 90 DEG. TEE
400 mm x 200 mm

MH-E5 (1800 DIA.)
RIM=123.314
INV IN (N)=TBD (SEE NOTE 3)
INV IN (E)=119.995
INV IN (W)=121.121
INV OUT (S)=TBD (SEE NOTE 3)
CONNECT TO EXIST. SEWER
AT EXIST. SMH (SEE NOTE 3)

EXIST. SMH (BY OTHERS)
(SEE NOTE 3)
RIM=TBD
INV IN(NE)=TBD
INV OUT(SW)=TBD

MH-E7
RIM=127.690
INV IN (NW)=126.434
INV OUT (S)=125.522

CONNECT TO EXIST. WATER

MH-E6
RIM=125.180
INV IN (N)=122.311
INV OUT (E)=122.281

EXIST. SMH
RIM=125.619
INV IN(N)=124.124
INV OUT(SE)=124.109

MH-E8
RIM=128.137
INV OUT (SE)=126.887
CONNECT TO
EXIST. SEWER

MATCH LINE 21+870

MATCH LINE 21+995

8 + 060.000
LIMIT OF WORK

0 10 20 30
SCALE IN METERS

REMOVE HYDRANT
21+993.0 RT

SPECIAL PROVISION (MUELLER HYDRANT)
8+010.3 RT

NOTES:

1. USE 400 DUCTILE IRON PIPE, CLASS 52 BETWEEN MH-E5 AND MH-E5A.
2. WORK BY OTHERS ON GAS STATION PARCEL INCLUDES SEWER AND DRAINAGE INFRASTRUCTURE MODIFICATIONS. THIS WORK IS PLANNED FOR 2018. COORDINATE WITH PROPERTY OWNER FOR CONNECTIONS.
3. FOR SANITARY SEWER, CONNECT EXIST. SMH (INSTALLED BY OTHERS) TO MH-E5 WITH 250 mm PVC SEWER. IF SMH BY OTHERS HAS NOT BEEN INSTALLED AT TIME OF CONSTRUCTION, CONNECT TO EXISTING SEWER AT OR NEAR THE RIGHT-OF-WAY WITH 250 mm PVC SEWER AND REDUCER IF NECESSARY. SEE SYSTEM E SEWER PROFILE ON SEWER PROFILE 5 FOR ADDITIONAL INFORMATION.
4. INTERCEPT SEWER SERVICE. PROVIDE CLEANOUTS AT EACH BEND. ROUTE SEWER SERVICE REPLACEMENT OVER PROPOSED DRAINAGE PIPE AND DISCHARGE INTO MH-E4. PROVIDE MINIMUM 0.3 m VERTICAL SEPARATION AT CROSSING. MINIMUM SLOPE SHALL BE 0.0200 m/m (0.25 IN/FT). DO NOT DISTURB MONITORING WELLS. ABANDON AND CAP OLD SERVICE PIPE.

3	JAN. 2017	ADDED NOTE 3
2	AUG. 2016	UPDATED PLAN SET
1	JAN. 2006	MODIFIED TO ADDRESS APRIL 18, 2005 WATER SUPPLY DIVISION COMMENTS

WATER / SEWER PLAN 11

PROJECT NAME: BRANDON
PROJECT NUMBER: NH 019-3(496)

FILE NAME: zb008s6-swr.dgn
PROJECT LEADER: C. BEAN
DESIGNED BY: M. HALEY
PLOT DATE: 2/23/2017
DRAWN BY: M. HALEY
CHECKED BY: D. LEWIS
SHEET 262 OF 601

CLD 02-0448 MODEL: 11

ISSUED FOR CONSTRUCTION

VAOT Metric

MH-F4
RIM=123.600
INV IN (N)=121.615
CONNECT TO EXIST. SEWER
INV OUT (APPROX.)=119.6

MH-F3
RIM=126.028
INV IN (N)=121.795
INV OUT (S)=121.717

PROVIDE CAPPED STUB AND MARKER. FUTURE CONNECTION BY OTHERS

EXIST. SMH
RIM=126.328
INV IN (N)=124.348
INV OUT (S)=124.048

EXIST. SMH
RIM=126.307
INV IN (N)=124.497
INV IN (W)=124.567
INV OUT (S)=124.477

MH-F1
RIM=127.007
INV OUT (W)=124.834

EXIST. SMH
RIM=127.307
INV IN (N)=125.632
INV OUT (W)=125.267
REMOVE SMH AND CONNECT TO EXIST. SEWER

MH-F2 (1500 DIA.)
RIM=126.714
INV IN (W)=121.888
INV IN (E)=124.594
INV OUT (S)=121.858

EXIST. SMH
RIM=126.700
INV IN (N)=NOT SURVEYED
INV IN (E)=NOT SURVEYED
INV IN (W)=NOT SURVEYED
INV OUT (S)=124.540

MATCH LINE 21+995

MATCH LINE 22+120

US 7

VT STATE PLANE GRID N

SPECIAL PROVISION (MUELLER HYDRANT)
22+089.2 LT

0 10 20 30
SCALE IN METERS

2	AUG. 2016	UPDATED PLAN SET
1	JAN. 2006	MODIFIED TO ADDRESS APRIL 18, 2005 WATER SUPPLY DIVISION COMMENTS

WATER / SEWER PLAN 12

PROJECT NAME: BRANDON
PROJECT NUMBER: NH 019-3(496)

FILE NAME: zb008s6-swr.dgn
PROJECT LEADER: C. BEAN
DESIGNED BY: M. HALEY
PLOT DATE: 2/23/2017
DRAWN BY: M. HALEY
CHECKED BY: D. LEWIS
SHEET 263 OF 601

CLD 02-0448 MODEL: 12

ISSUED FOR CONSTRUCTION

VAOT Metric

LOCATE EXIST. SEWER SERVICE CONNECTION AND INSTALL NEW MANHOLE, FRAME AND COVER TO INTERCEPT SERVICE AND PROVIDE CLEANOUT ACCESS TO PEARL STREET SEWER. CAP EXIST. SEWER UPSTREAM FROM NEW MANHOLE.

APPROX. LOCATION OF PROPOSED 100 mm PVC DRAIN FOR FOUNTAIN

MH-F12
RIM=126.450
INV OUT (NW)=123.539
COORDINATE FOUNTAIN DRAIN INVERT WITH FOUNTAIN CONSTRUCTION.
SEE SPECIAL PROVISION.

VT STATE PLANE GRID

N

THE PROPOSED FORCE MAIN ELEVATIONS SHALL BE ADJUSTED TO AVOID OTHER UNDERGROUND FEATURES AS NEEDED

REMOVE HYDRANT
22+200.0 LT

SPECIAL PROVISION (MUELLER HYDRANT)
22+229.1 LT
18+019.5 LT

APPROX. LOCATION OF PROPOSED 25 mm WATER SERVICE TO FOUNTAIN

INSTALL 90 DEG. TEE 400 mm x 200 mm AND ONE 22-1/2 BEND

EXIST. SMH
RIM=126.385
INV IN (NW)=123.885
INV IN (W)=123.875
INV OUT (SE)=123.845

INSTALL 30 DEG. BEND

INSTALL 11-1/4 DEG. BEND

EXIST. SMH
RIM=126.400
INV OUT (E)=124.650
FORCE MAIN THRU SMH

MH-F11
RIM=126.270
INV IN (W)=124.000
INV OUT (E)=123.970
DISCHARGE CHAMPLAIN PS FORCE MAIN INTO MH-F11

MH-F10 (1500 DIA.)
RIM=126.390
INV IN (SE)=123.400
INV IN (W)=123.400
INV OUT (NE)=122.587

EXIST. SMH
RIM=126.557
INV IN (NW)=124.087
INV OUT (SE)=124.057

MH-F5
RIM=126.388
INV IN (NW)=122.138
INV OUT (E)=122.108

EXIST. SMH
RIM=126.447
INV OUT (E)=125.077

INSTALL 30 DEG. BEND

INSTALL 90 DEG. TEE
400 mm x 200 mm AND
400 mm x 300 mm REDUCER

MH-F6 (1500 DIA.)
RIM=126.123
INV IN (SW)=122.500
INV IN (NW)=122.306
INV OUT (SE)=122.276

SEE PLAN 13A

MATCH LINE 22+220

MATCH LINE 22+235

0 10 20 30
SCALE IN METERS

2	AUG. 2016	UPDATED PLAN SET
1	JAN. 2006	MODIFIED TO ADDRESS APRIL 18, 2005 WATER SUPPLY DIVISION COMMENTS

WATER / SEWER PLAN 13

PROJECT NAME: BRANDON
PROJECT NUMBER: NH 019-3(496)

FILE NAME: zb008s6-swr.dgn
PROJECT LEADER: C. BEAN
DESIGNED BY: M. HALEY
PLOT DATE: 2/23/2017
DRAWN BY: M. HALEY
CHECKED BY: D. LEWIS
SHEET 264 OF 601

CLD 02-0448 MODEL:13

ISSUED FOR CONSTRUCTION

VAOT Metric

EXISTING WATER MAIN SHOWN AS BOLD ON VT 73 AND PEARL STREET INSTALLED 2016 AND IS TO BE RETAINED. MAIN IS ACTIVE.

SPECIAL PROVISION (MUELLER HYDRANT)
19+100.0 LT

VT STATE PLANE GRID
N

19 + 105.000
LIMIT OF WORK

CONNECT TO EXIST. WATER WITH TWO 45 DEG. BENDS

18 + 103.000
LIMIT OF WORK

CAP NEW FORCE MAIN AT 18+100 AND TEST. COORDINATE WITH CHAMPLAIN PUMP STATION PROJECT AND TOWN FOR FINAL CONNECTION LOCATION.

CONNECT TO EXIST. WATER STUB

SEE PLAN 13

SEE PLAN 13

3	JAN. 2017	REVISED LIMIT OF FORCE MAIN WORK
2	AUG. 2016	UPDATED PLAN SET
1	JAN. 2006	MODIFIED TO ADDRESS APRIL 18, 2005 WATER SUPPLY DIVISION COMMENTS

WATER / SEWER PLAN 13A

PROJECT NAME: BRANDON
PROJECT NUMBER: NH 019-3(496)

FILE NAME: zb008s6-swr.dgn
PROJECT LEADER: C. BEAN
DESIGNED BY: M. HALEY

PLOT DATE: 2/23/2017
DRAWN BY: M. HALEY
CHECKED BY: D. LEWIS
SHEET 265 OF 601

0 10 20 30
SCALE IN METERS

CLD 02-0448 MODEL: 13A

ISSUED FOR CONSTRUCTION

VT STATE PLANE GRID N

REMOVE HYDRANT
22+326.7 RT

SPECIAL PROVISION (MUELLER HYDRANT)
22+326.7 RT

MATCH LINE 22+235

MATCH LINE 22+365

INSTALL 11-1/4 DEG. BEND

MH-F7
RIM=126.088
INV IN (NW)=122.487
INV OUT (SE)=122.457

EXIST. SMH
RIM=126.225
INV IN (NW)=124.795
INV OUT (SE)=124.765

MH-F8
RIM=125.924
INV IN (NW)=122.892
INV OUT (SE)=122.862

HYD-22

300 VCP
300 mm DI
200 VCP
200 mm PVC
100 CI
150 CI
100 PVC ROOF DRAIN

60+160 60+180 60+200 60+220 60+240 60+260 60+280
22+240 22+260 22+280 22+300 22+320 22+340 22+360

M. OAK
M. MAPLE
1½SWF
1½SBF
2 ½SWF
2 SWF
S.CEDARS
S. CHERRY
S. STUMP
S.SPRUCE
LILAC
L. MAPLE
M.B.ELDER
M. STUMP
SHRUB
STN. EDGING
CHAIN LINK FN
GRAVEL DRIVE
CONC. DRIVE
WD.RAMP
STN. PATIO
STN. WALL
HIST. MUSEUM MARK
PAVED WALK
GUY WIRE
W.MAPLE
DCNT TRASH VT
CONC. CURB
GRAVEL
PAVED
GRASS
HVCTRL
DIRTY WORKS LAUNDRY
CONC.
FARR WAY PVT.
PUSH POLE
MREL
BRANDON LUMBER
GAS STATION / STORE
LAUNDROMAT
GAS FILLER
GULF
WD-FN
STN. WALL
STN. BLOCK WALL
CONC. POST
VT 73
US 7

0 10 20 30
SCALE IN METERS

2	AUG. 2016	UPDATED PLAN SET
1	JAN. 2006	MODIFIED TO ADDRESS APRIL 18, 2005 WATER SUPPLY DIVISION COMMENTS

WATER / SEWER PLAN 14

PROJECT NAME: BRANDON
PROJECT NUMBER: NH 019-3(496)

FILE NAME: zb008s6-swr.dgn
PROJECT LEADER: C. BEAN
DESIGNED BY: M. HALEY
PLOT DATE: 2/23/2017
DRAWN BY: M. HALEY
CHECKED BY: D. LEWIS
SHEET 266 OF 601

CLD 02-0448 MODEL: 14

ISSUED FOR CONSTRUCTION

VAOT Metric

VT STATE PLANE GRID N

MATCH LINE 22+365

MATCH LINE 22+520

BM #2 CHS. SQ.
TOP SW COR. CONC. STEPS
EL.= 125.872 m

BEND PIPE TO ALIGNMENT SHOWN. DO NOT EXCEED MAX 5 DEG. DEFLECTION

REMOVE HYDRANT
22+450.3 LT

SPECIAL PROVISION (MUELLER HYDRANT)
22+462.5 LT

EXIST. SMH
RIM= 126.580
INV IN (NW) = 125.370
INV OUT (SE) = 125.360

MH-F9
RIM= 124.947
INV OUT (SE) = 123.247

2	AUG. 2016	UPDATED PLAN SET
1	JAN. 2006	MODIFIED TO ADDRESS APRIL 18, 2005 WATER SUPPLY DIVISION COMMENTS

0 10 20 30
SCALE IN METERS

WATER / SEWER PLAN 15

PROJECT NAME: BRANDON
PROJECT NUMBER: NH 019-3(496)

FILE NAME: zb008s6-swr.dgn
PROJECT LEADER: C. BEAN
DESIGNED BY: M. HALEY
PLOT DATE: 2/23/2017
DRAWN BY: M. HALEY
CHECKED BY: D. LEWIS
SHEET 267 OF 601

CLD 02-0448 MODEL: 15

ISSUED FOR CONSTRUCTION

VAOT Metric

SPECIAL PROVISION (MUELLER HYDRANT)
22+598.6 LT

VT STATE PLANE GRID N

MATCH LINE 22+520

22 + 630.000
END PROJECT
NH 019-3(496)
BEGIN APPROACH

RETAIN EXIST. 300 mm GATE VALVE

22 + 680.000
END APPROACH

REMOVE EXIST. 150 mm VALVE BOX (RETAIN VALVE)

WETLAND #23
CLASS 2
PEMB

GAS PUMPS
CONC.
PAVED
CONC. CURB
MON. WELLS AND GAS FILLERS
BND
SHELL MCDONALDS
VENT
LIGHT
CONC. CURB
S.L. 35
HVCTRL
DRIVE
BRANDON AUTO SALES
WSO
SHRUB
GRAVEL
CONC
PAVED
150 CI
HYD-24
300 mm DI
W WIRE FENCE
BND
STIC
HVCTRL
PAVED
US 7
PAVED WALK
WD. FENCE
SHRUB
S. LOCUST
2½SWF
GRAVEL
CHAIN LINK FENCE
ABANDONED QUARRY
GUY WIRE
SL 40 THROUGH WAY BEGINS HERE
HVCTRL #3
DITCH
M. MAPLE
S.MAPLES
WOODS
LEDGE
S.BASSWD

CONNECT TO EXIST. WATER WITH TWO 45 DEG. BENDS

BM #1 CHS. SQ. IN LEDGE EL.= 120.49 m

22+520 22+540 22+560 22+580 22+600 22+620 22+640 22+660 22+680 22+700

0 10 20 30
SCALE IN METERS

2	AUG. 2016	UPDATED PLAN SET
1	JAN. 2006	MODIFIED TO ADDRESS APRIL 18, 2005 WATER SUPPLY DIVISION COMMENTS

WATER / SEWER PLAN 16

PROJECT NAME: BRANDON
PROJECT NUMBER: NH 019-3(496)

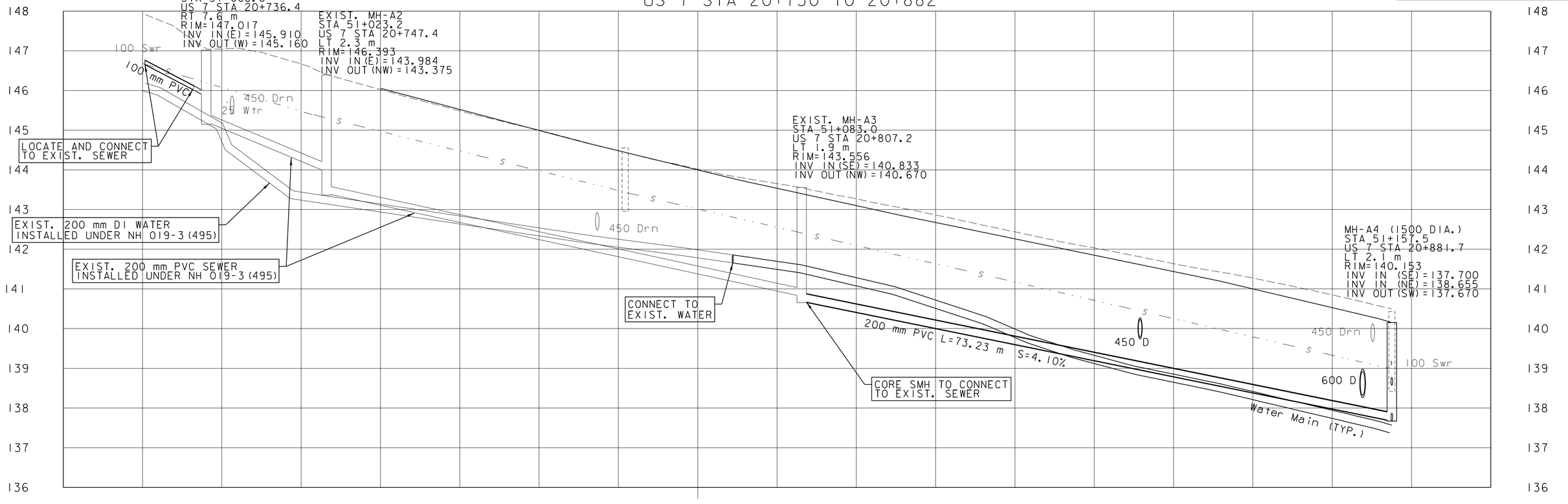
FILE NAME: zb008s6-swr.dgn
PROJECT LEADER: C. BEAN
DESIGNED BY: M. HALEY
PLOT DATE: 2/23/2017
DRAWN BY: M. HALEY
CHECKED BY: D. LEWIS
SHEET 268 OF 601

CLD 02-0448 MODEL: 16

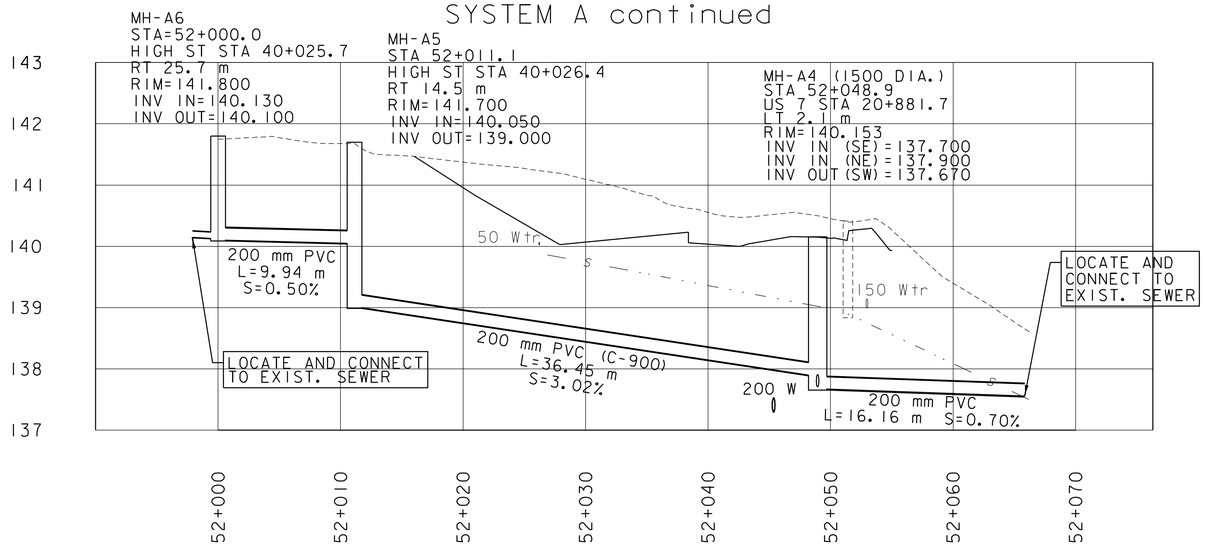
ISSUED FOR CONSTRUCTION

VAOT Metric

SYSTEM A
US 7 STA 20+730 TO 20+882



SYSTEM A continued



THE PROPOSED WATER MAIN AND EXISTING SEWER LINES HAVE BEEN PROJECTED ON THE PROPOSED SEWER PROFILES.
THE PROPOSED WATER MAIN ELEVATIONS SHALL BE ADJUSTED TO AVOID OTHER UNDERGROUND FEATURES, AS NEEDED.
SEE PLANS, DETAILS, AND ROADWAY CROSS SECTIONS FOR LOCATIONS OF OTHER UNDERGROUND FEATURES.
SEE ROADWAY CROSS SECTIONS FOR APPROXIMATE LEDGE INFORMATION.

SCALE IN METERS
0 10 20
0 1 2

3	JAN. 2017	MODIFIED SEWER PROFILE FROM MH-A4 TO MH-A6
2	AUG. 2016	UPDATED PLAN SET
1	JAN. 2006	MODIFIED TO ADDRESS APRIL 18, 2005 WATER SUPPLY DIVISION COMMENTS

SEWER PROFILE 1

PROJECT NAME: BRANDON
PROJECT NUMBER: NH 019-3(496)

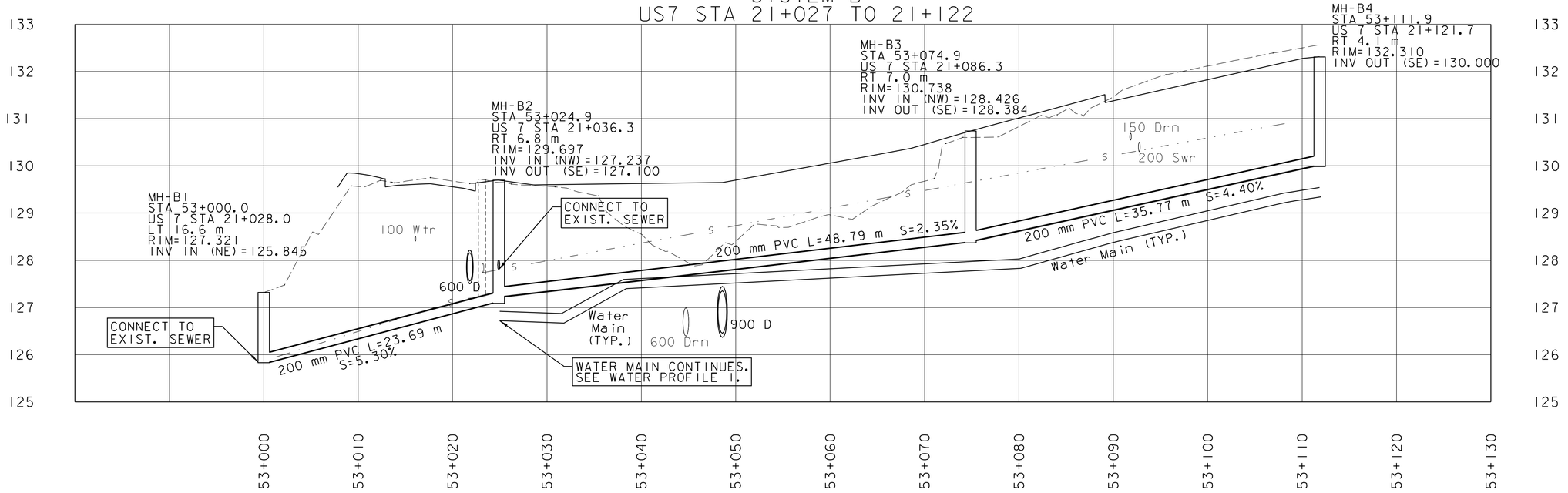
FILE NAME: zb008s6-swrpro.dgn
PROJECT LEADER: C. BEAN
DESIGNED BY: M. HALEY
PLOT DATE: 2/23/2017
DRAWN BY: M. HALEY
CHECKED BY: D. LEWIS
SHEET 269 OF 601

CLD 02-0448 MODEL:1

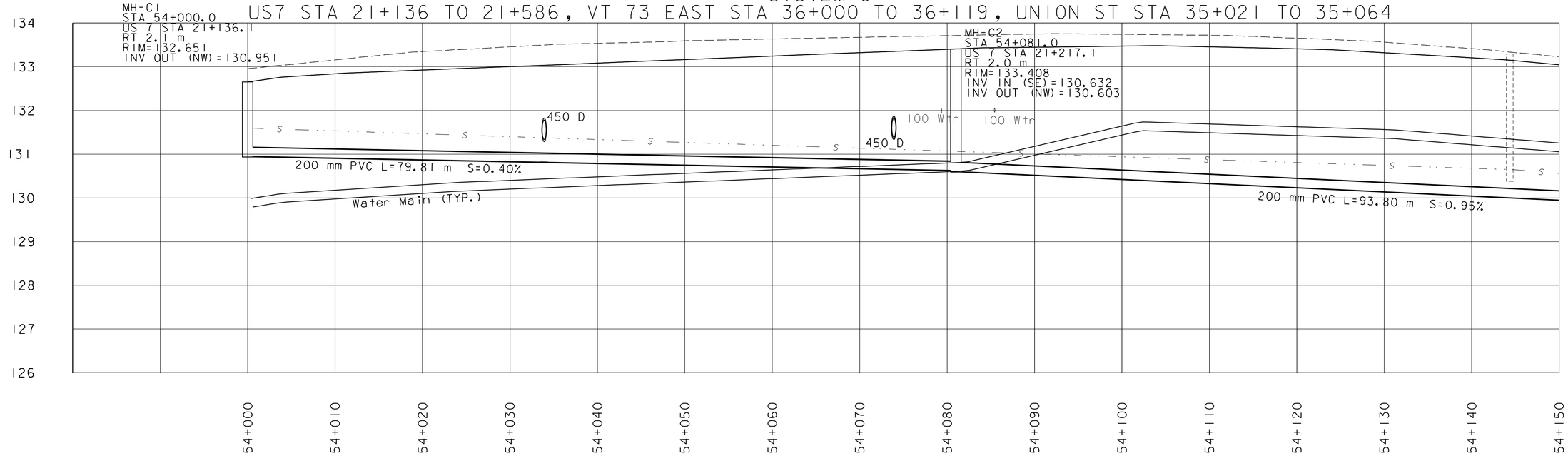
ISSUED FOR CONSTRUCTION

Metric

SYSTEM B
US7 STA 21+027 TO 21+122



SYSTEM C
US7 STA 21+136 TO 21+586, VT 73 EAST STA 36+000 TO 36+119, UNION ST STA 35+021 TO 35+064



THE PROPOSED WATER MAIN AND EXISTING SEWER LINES HAVE BEEN PROJECTED ON THE PROPOSED SEWER PROFILES.
THE PROPOSED WATER MAIN ELEVATIONS SHALL BE ADJUSTED TO AVOID OTHER UNDERGROUND FEATURES, AS NEEDED.
SEE PLANS, DETAILS, AND ROADWAY CROSS SECTIONS FOR LOCATIONS OF OTHER UNDERGROUND FEATURES.
SEE ROADWAY CROSS SECTIONS FOR APPROXIMATE LEDGE INFORMATION.

SCALE IN METERS
0 10 20
0 1 2

2	AUG. 2016	UPDATED PLAN SET
1	JAN. 2006	MODIFIED TO ADDRESS APRIL 18, 2005 WATER SUPPLY DIVISION COMMENTS

SEWER PROFILE 2

PROJECT NAME: BRANDON
PROJECT NUMBER: NH 019-3(496)

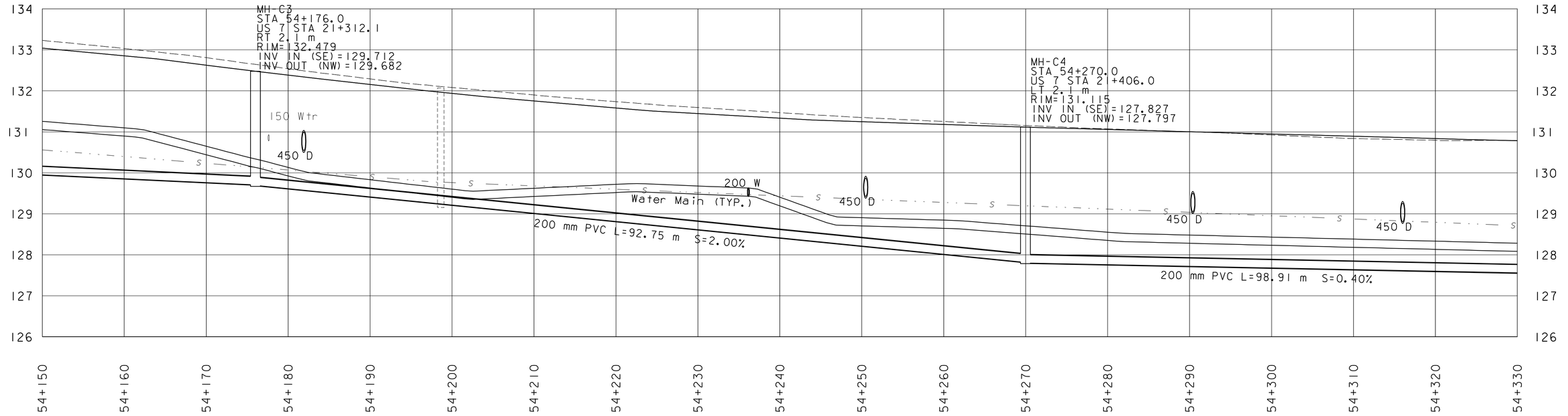
FILE NAME: zb008s6-swrpro.dgn
PROJECT LEADER: C. BEAN
DESIGNED BY: M. HALEY
PLOT DATE: 2/23/2017
DRAWN BY: M. HALEY
CHECKED BY: D. LEWIS
SHEET 270 OF 601

CLD 02-0448 MODEL: 2

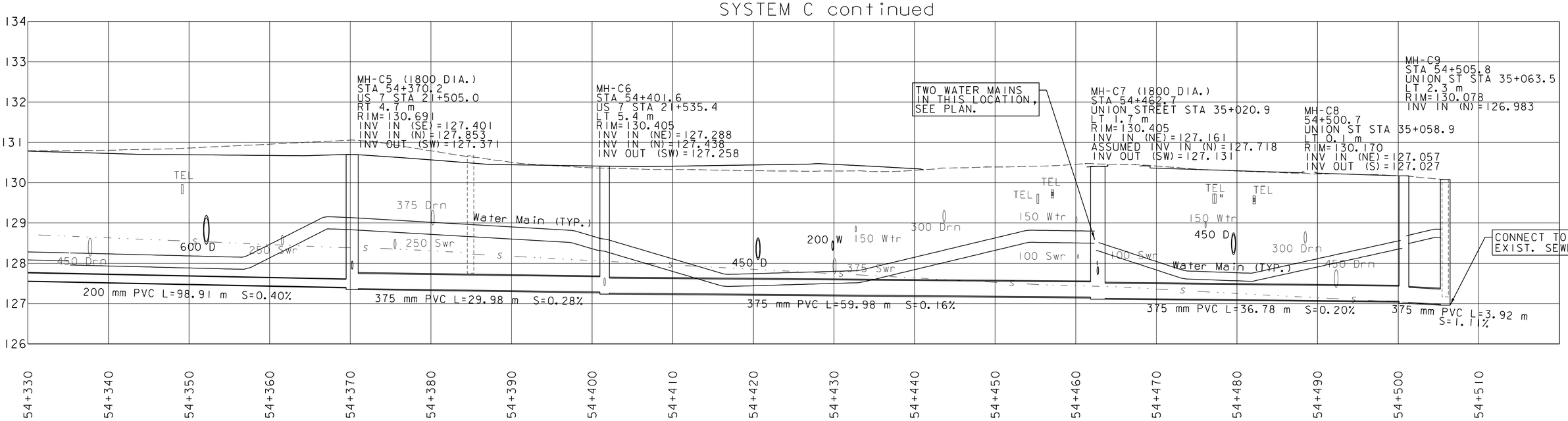
ISSUED FOR CONSTRUCTION

VAOT Metric

SYSTEM C continued



SYSTEM C continued



2	AUG. 2016	UPDATED PLAN SET
1	JAN. 2006	MODIFIED TO ADDRESS APRIL 18, 2005 WATER SUPPLY DIVISION COMMENTS

THE PROPOSED WATER MAIN AND EXISTING SEWER LINES HAVE BEEN PROJECTED ON THE PROPOSED SEWER PROFILES.
THE PROPOSED WATER MAIN ELEVATIONS SHALL BE ADJUSTED TO AVOID OTHER UNDERGROUND FEATURES, AS NEEDED.
SEE PLANS, DETAILS, AND ROADWAY CROSS SECTIONS FOR LOCATIONS OF OTHER UNDERGROUND FEATURES.
SEE ROADWAY CROSS SECTIONS FOR APPROXIMATE LEDGE INFORMATION.

SCALE IN METERS
0 10 20
2 1 0

SEWER PROFILE 3

PROJECT NAME: BRANDON
PROJECT NUMBER: NH 019-3(496)

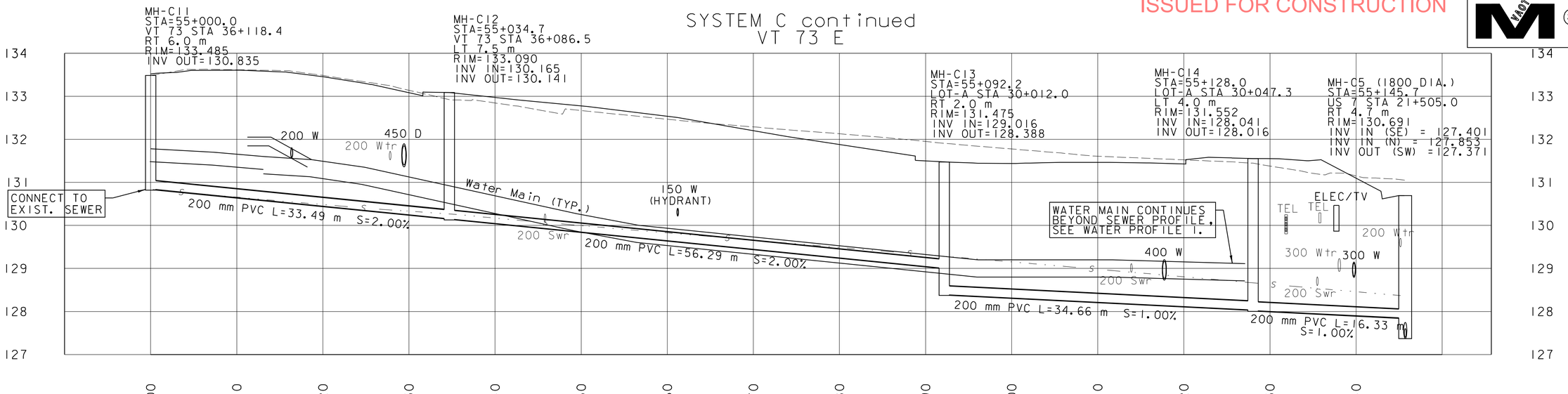
FILE NAME: zb008s6-swrpro.dgn
PROJECT LEADER: C. BEAN
DESIGNED BY: M. HALEY
PLOT DATE: 2/23/2017
DRAWN BY: M. HALEY
CHECKED BY: D. LEWIS
SHEET 271 OF 601

CLD 02-0448 MODEL: 3

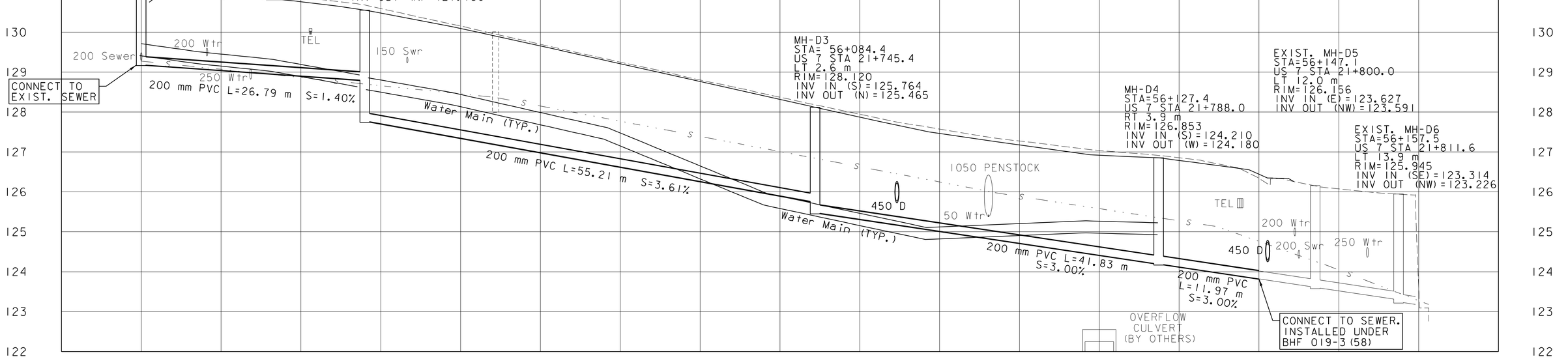
ISSUED FOR CONSTRUCTION

VAOT Metric

SYSTEM C continued
VT 73 E



SYSTEM D
US7 STA 21+666 TO 21+812



2	AUG. 2016	UPDATED PLAN SET
1	JAN. 2006	MODIFIED TO ADDRESS APRIL 18, 2005 WATER SUPPLY DIVISION COMMENTS

SCALE IN METERS
0 10 20
2 1 0

THE PROPOSED WATER MAIN AND EXISTING SEWER LINES HAVE BEEN PROJECTED ON THE PROPOSED SEWER PROFILES.
THE PROPOSED WATER MAIN ELEVATIONS SHALL BE ADJUSTED TO AVOID OTHER UNDERGROUND FEATURES, AS NEEDED.
SEE PLANS, DETAILS, AND ROADWAY CROSS SECTIONS FOR LOCATIONS OF OTHER UNDERGROUND FEATURES.
SEE ROADWAY CROSS SECTIONS FOR APPROXIMATE LEDGE INFORMATION.

SEWER PROFILE 4

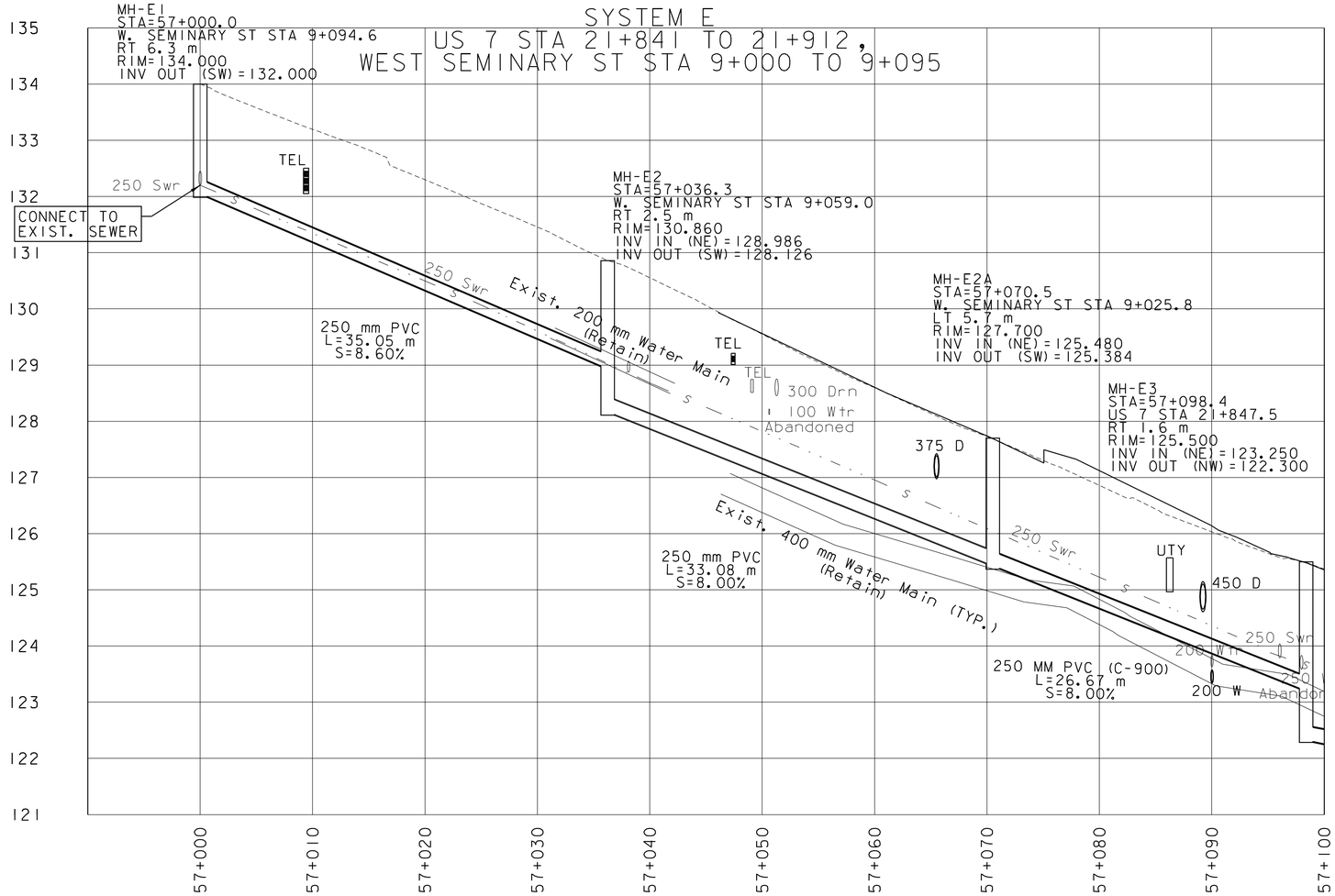
PROJECT NAME: BRANDON
PROJECT NUMBER: NH 019-3(496)

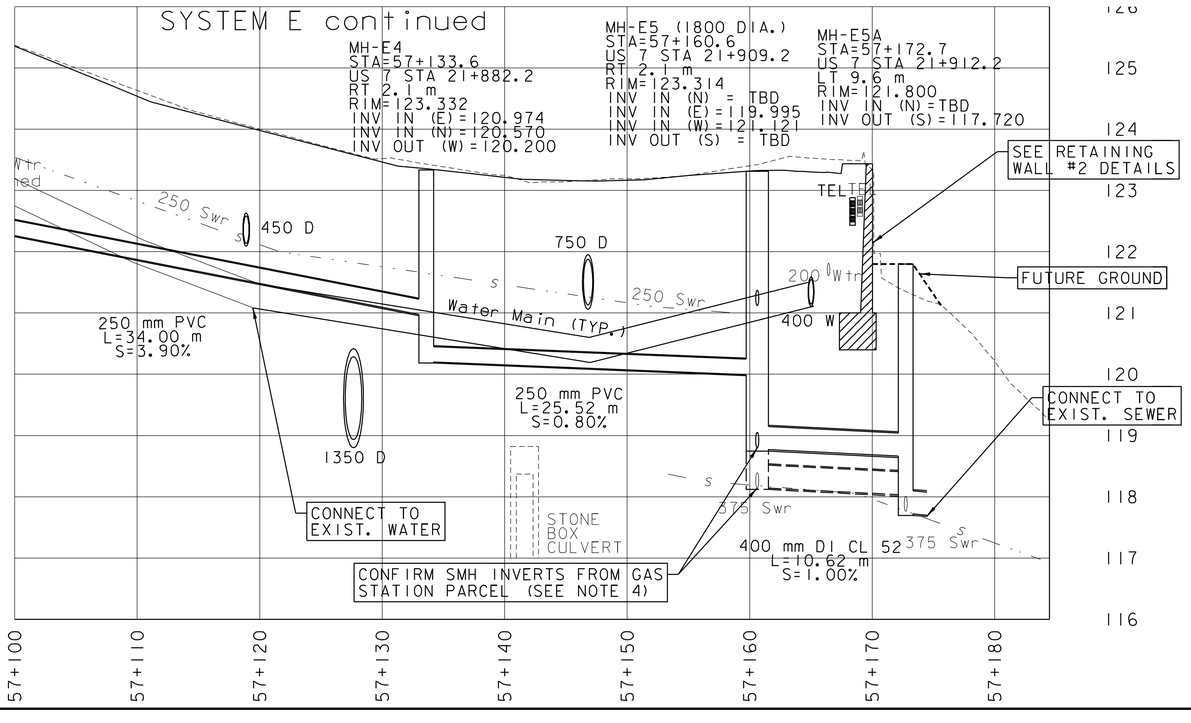
FILE NAME: zb008s6-swrpro.dgn
PROJECT LEADER: C. BEAN
DESIGNED BY: M. HALEY
PLOT DATE: 2/23/2017
DRAWN BY: M. HALEY
CHECKED BY: D. LEWIS
SHEET 272 OF 601

CLD 02-0448 MODEL: 4

ISSUED FOR CONSTRUCTION

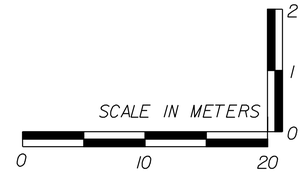
VAOT Metric





NOTES:

1. THE PROPOSED WATER MAIN AND EXISTING SEWER LINES HAVE BEEN PROJECTED ON THE PROPOSED SEWER PROFILES. THE PROPOSED WATER MAIN ELEVATIONS SHALL BE ADJUSTED TO AVOID OTHER UNDERGROUND FEATURES, AS NEEDED.
2. SEE PLANS, DETAILS, AND ROADWAY CROSS SECTIONS FOR LOCATIONS OF OTHER UNDERGROUND FEATURES.
3. SEE ROADWAY CROSS SECTIONS FOR APPROXIMATE LEDGE INFORMATION.
4. COORDINATE WITH PROPERTY OWNER FOR SEWER CONNECTIONS. IF SMH BY OTHERS AS DEPICTED ON WATER / SEWER PLAN II HAS BEEN INSTALLED AT TIME OF CONSTRUCTION, CONNECT TO SEWER AT SMH. THIS CONDITION IS REPRESENTED AS SHALLOWER PROFILE (SOLID LINES). IF SMH BY OTHERS HAS NOT BEEN INSTALLED AT TIME OF CONSTRUCTION, CONNECT TO EXISTING SEWER AT OR NEAR THE RIGHT-OF-WAY. THIS CONDITION IS REPRESENTED AS DEEPER PROFILE (DASHED LINES). BID PRICE FOR SEWER TO CONNECT TO EXISTING SEWER, FOR MH-E5, AND FOR SEWER ACROSS US 7 SHALL ASSUME DEEPER CONDITION.



2	AUG. 2016	UPDATED PLAN SET
1	JAN. 2006	MODIFIED TO ADDRESS APRIL 18, 2005 WATER SUPPLY DIVISION COMMENTS

SEWER PROFILE 5

PROJECT NAME: BRANDON
PROJECT NUMBER: NH 019-3(496)

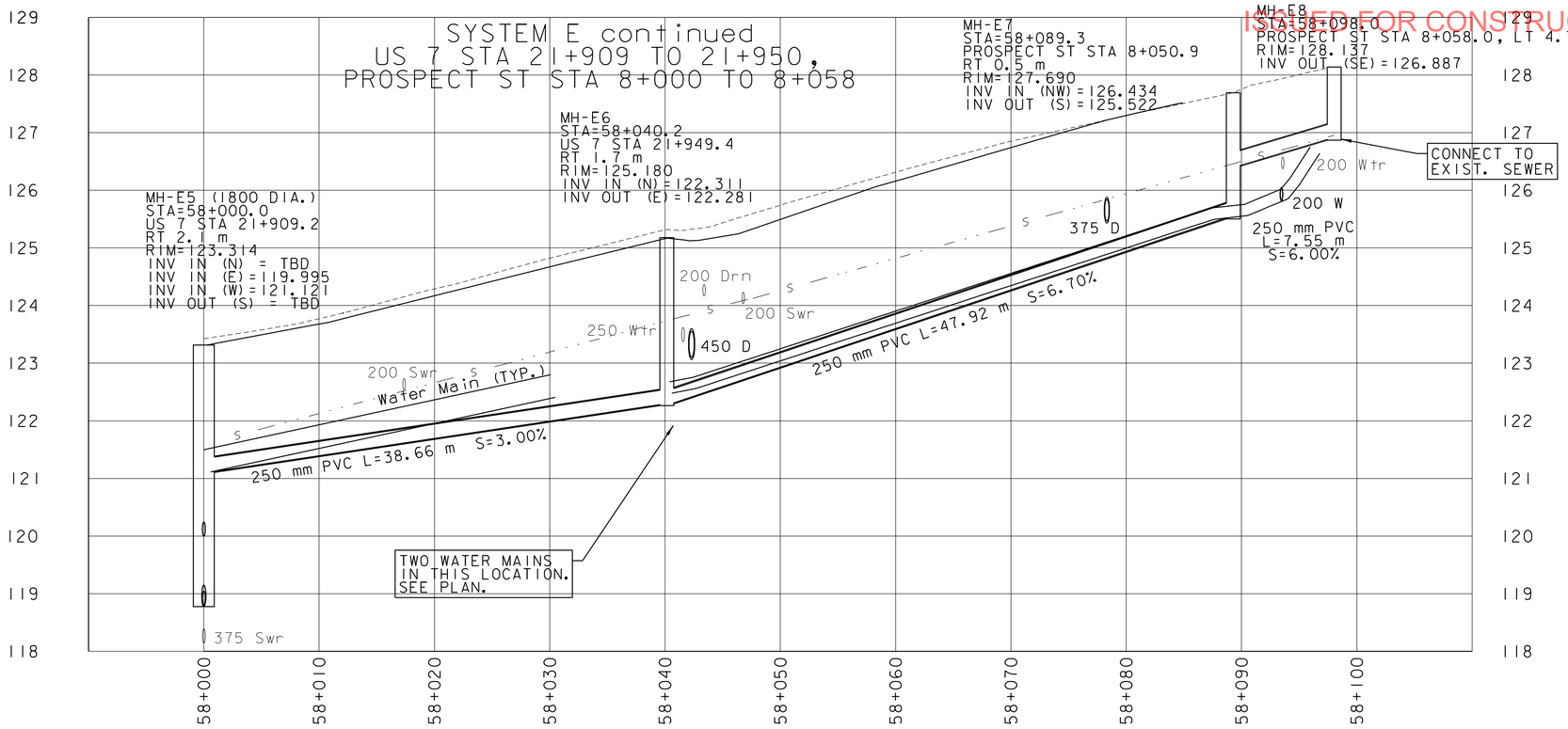
FILE NAME: zb008s6-swrpro.dgn
PROJECT LEADER: C. BEAN
DESIGNED BY: M. HALEY
PLOT DATE: 2/23/2017
DRAWN BY: M. HALEY
CHECKED BY: D. LEWIS
SHEET 273 OF 601

CLD 02-0448 MODEL: 5

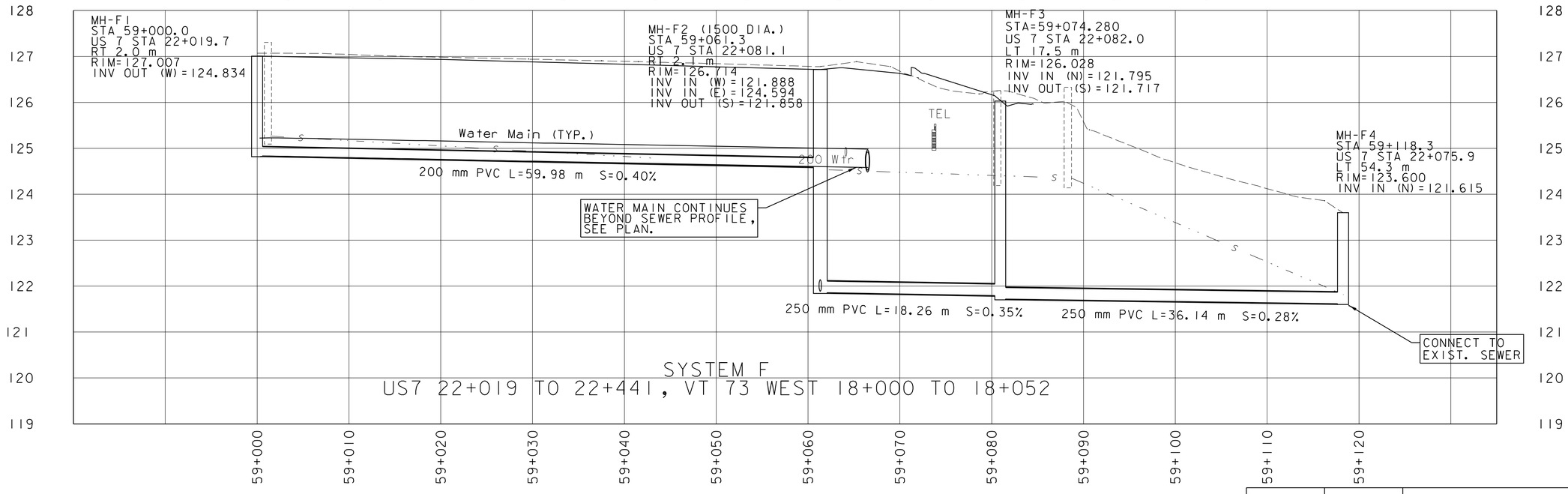
ISSUED FOR CONSTRUCTION

Metric

SYSTEM E continued
US 7 STA 21+909 TO 21+950, PROSPECT ST STA 8+000 TO 8+058



SYSTEM F
US7 22+019 TO 22+441, VT 73 WEST 18+000 TO 18+052



2	AUG. 2016	UPDATED PLAN SET
1	JAN. 2006	MODIFIED TO ADDRESS APRIL 18, 2005 WATER SUPPLY DIVISION COMMENTS

THE PROPOSED WATER MAIN AND EXISTING SEWER LINES HAVE BEEN PROJECTED ON THE PROPOSED SEWER PROFILES.
THE PROPOSED WATER MAIN ELEVATIONS SHALL BE ADJUSTED TO AVOID OTHER UNDERGROUND FEATURES, AS NEEDED.
SEE PLANS, DETAILS, AND ROADWAY CROSS SECTIONS FOR LOCATIONS OF OTHER UNDERGROUND FEATURES.
SEE ROADWAY CROSS SECTIONS FOR APPROXIMATE LEDGE INFORMATION.

SCALE IN METERS
0 10 20
0 1 2

SEWER PROFILE 6

PROJECT NAME: BRANDON
PROJECT NUMBER: NH 019-3(496)

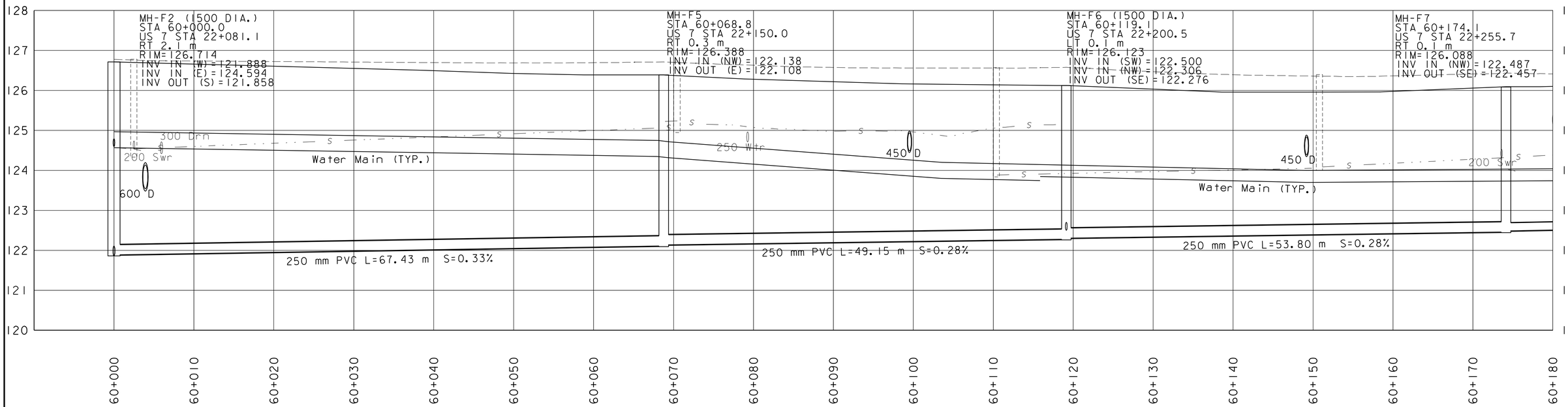
FILE NAME: zb008s6-swrpro.dgn
PROJECT LEADER: C. BEAN
DESIGNED BY: M. HALEY
PLOT DATE: 2/23/2017
DRAWN BY: M. HALEY
CHECKED BY: D. LEWIS
SHEET 274 OF 601

CLD 02-0448 MODEL: 6

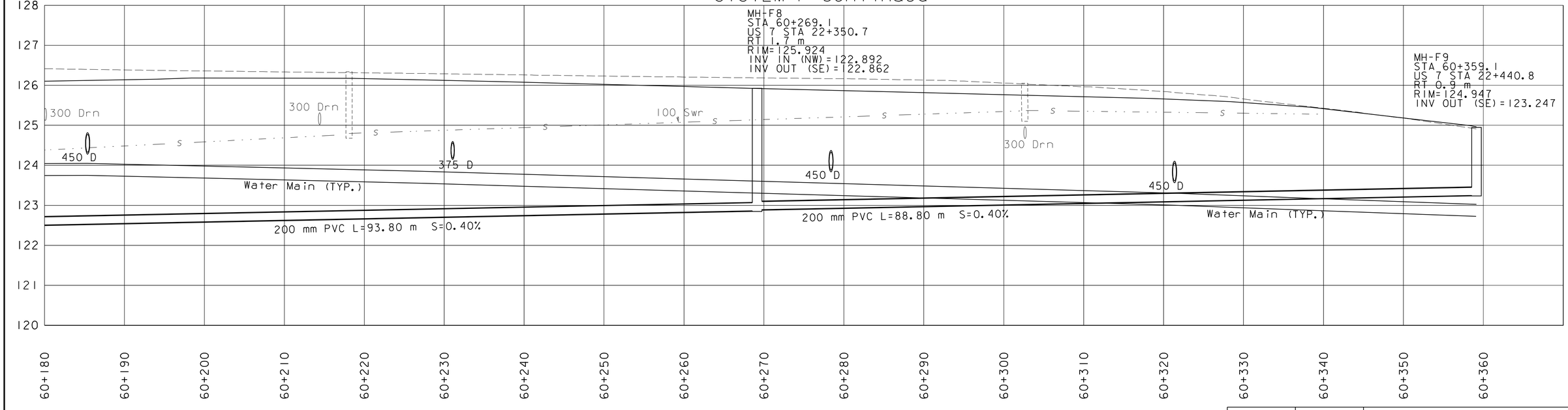
ISSUED FOR CONSTRUCTION

VAOT Metric

SYSTEM F continued



SYSTEM F continued



THE PROPOSED WATER MAIN AND EXISTING SEWER LINES HAVE BEEN PROJECTED ON THE PROPOSED SEWER PROFILES.
THE PROPOSED WATER MAIN ELEVATIONS SHALL BE ADJUSTED TO AVOID OTHER UNDERGROUND FEATURES, AS NEEDED.
SEE PLANS, DETAILS, AND ROADWAY CROSS SECTIONS FOR LOCATIONS OF OTHER UNDERGROUND FEATURES.
SEE ROADWAY CROSS SECTIONS FOR APPROXIMATE LEDGE INFORMATION.

SCALE IN METERS
0 10 20
2 1 0

2	AUG. 2016	UPDATED PLAN SET
1	JAN. 2006	MODIFIED TO ADDRESS APRIL 18, 2005 WATER SUPPLY DIVISION COMMENTS

SEWER PROFILE 7

PROJECT NAME: BRANDON
PROJECT NUMBER: NH 019-3(496)

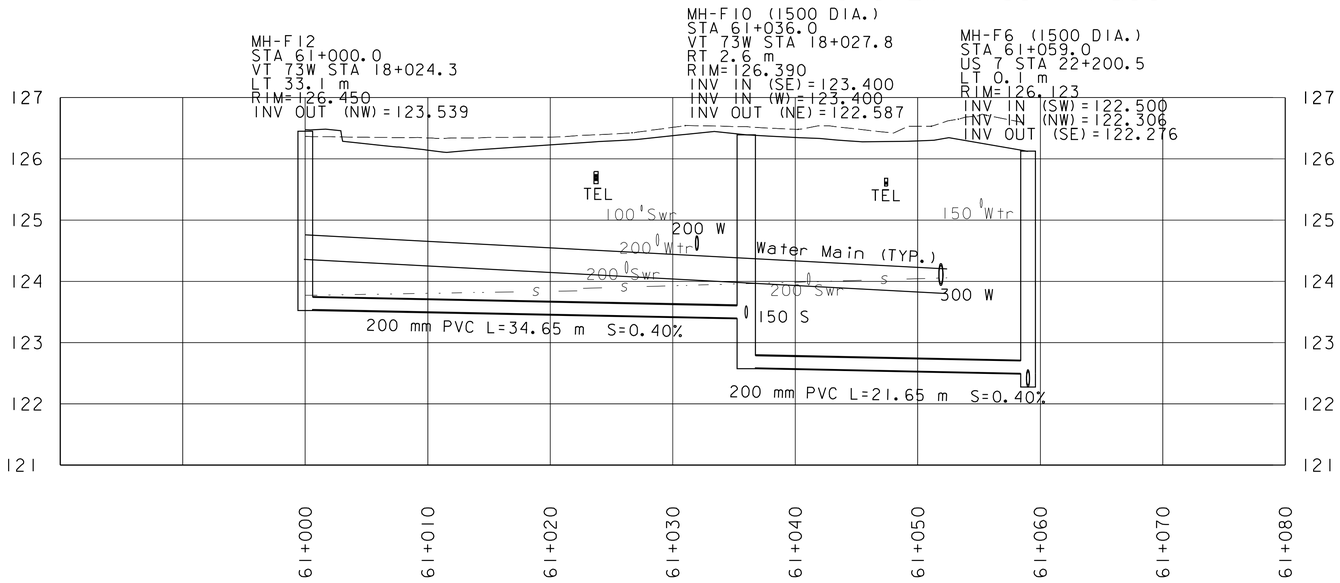
FILE NAME: zb008s6-swrpro.dgn
PROJECT LEADER: C. BEAN
DESIGNED BY: M. HALEY
PLOT DATE: 2/23/2017
DRAWN BY: M. HALEY
CHECKED BY: D. LEWIS
SHEET 275 OF 601

CLD 02-0448 MODEL: 7

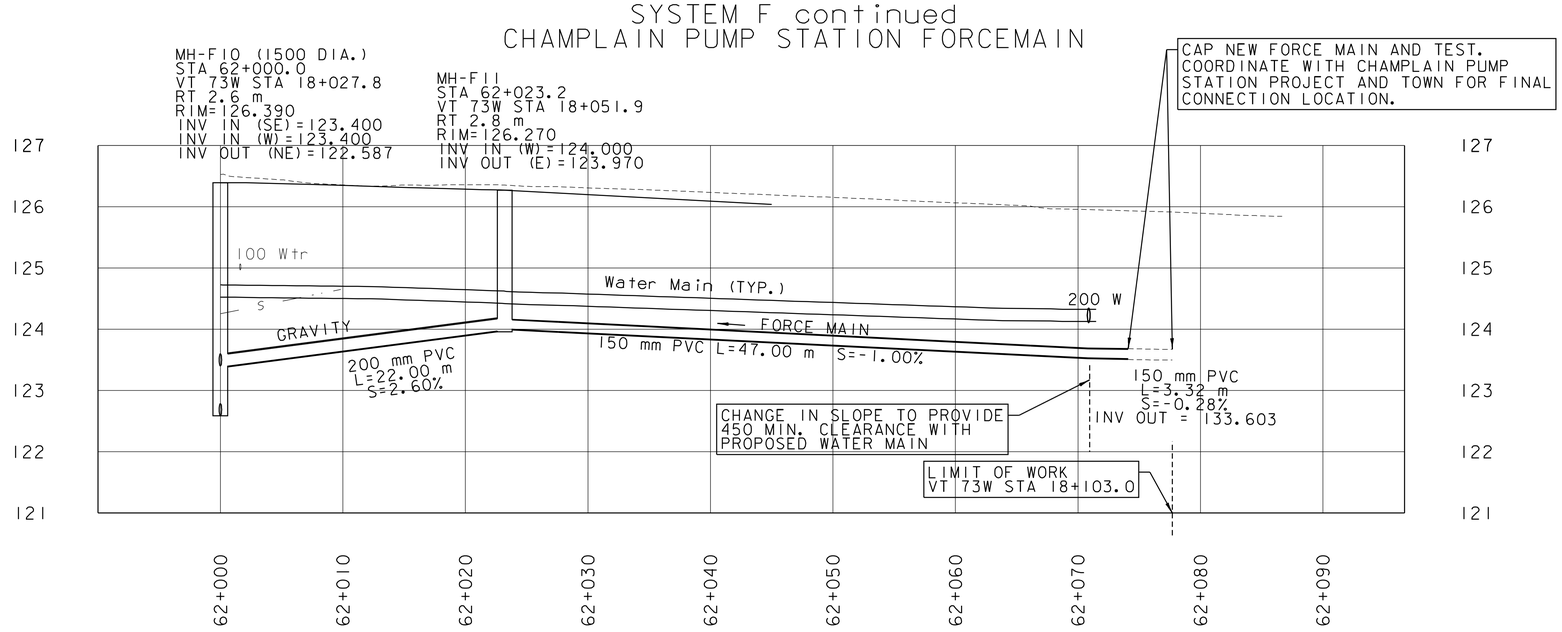
ISSUED FOR CONSTRUCTION

VAOT Metric

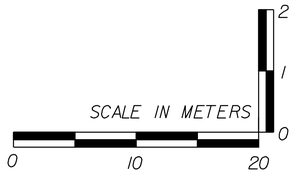
SYSTEM F continued



SYSTEM F continued
CHAMPLAIN PUMP STATION FORCEMAIN



THE PROPOSED WATER MAIN AND EXISTING SEWER LINES HAVE BEEN PROJECTED ON THE PROPOSED SEWER PROFILES.
THE PROPOSED WATER MAIN ELEVATIONS SHALL BE ADJUSTED TO AVOID OTHER UNDERGROUND FEATURES, AS NEEDED.
SEE PLANS, DETAILS, AND ROADWAY CROSS SECTIONS FOR LOCATIONS OF OTHER UNDERGROUND FEATURES.
SEE ROADWAY CROSS SECTIONS FOR APPROXIMATE LEDGE INFORMATION.



3	JAN. 2017	REVISED LIMIT OF FORCEMAIN WORK
2	AUG. 2016	UPDATED PLAN SET
1	JAN. 2006	MODIFIED TO ADDRESS APRIL 18, 2005 WATER SUPPLY DIVISION COMMENTS

SEWER PROFILE 8

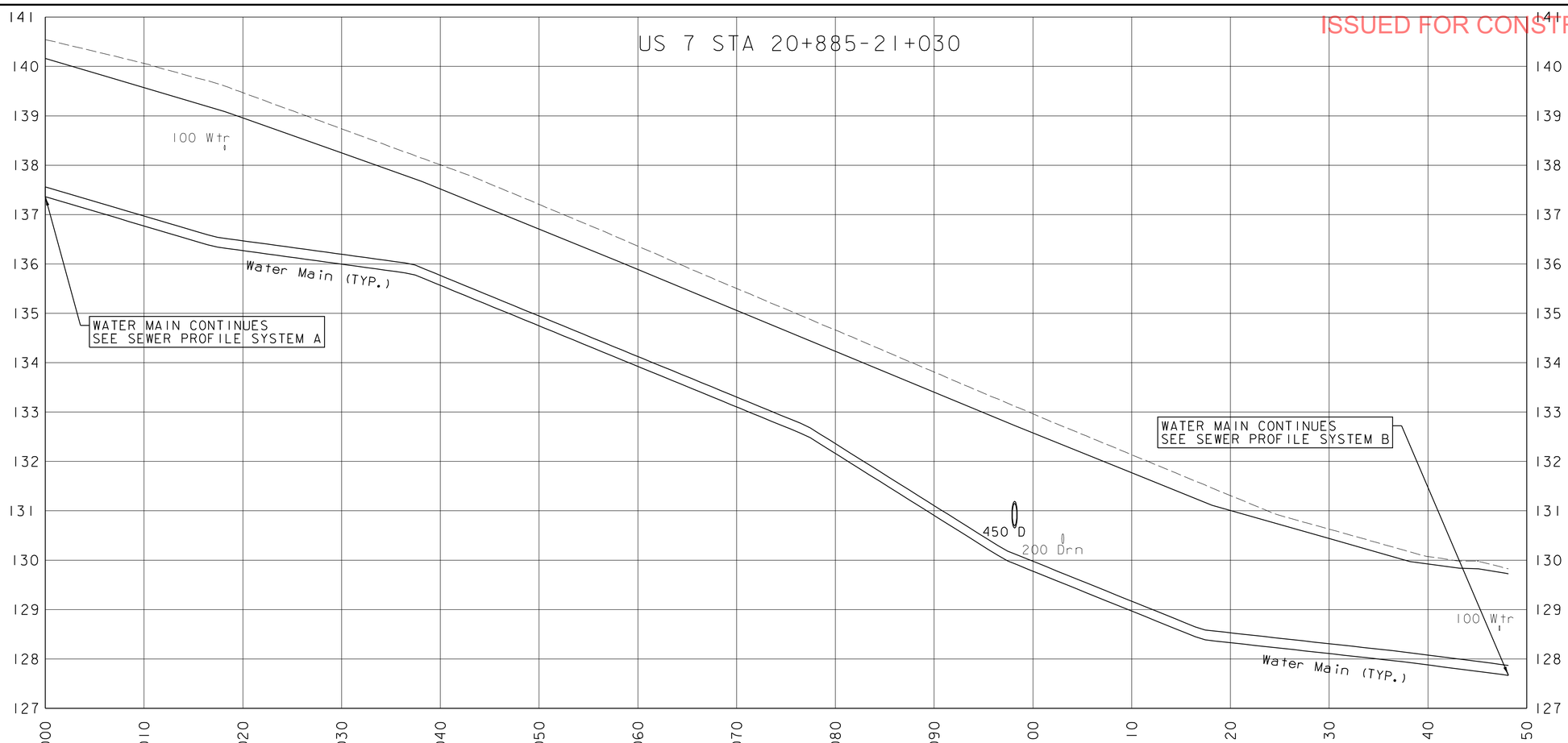
PROJECT NAME: BRANDON
PROJECT NUMBER: NH 019-3(496)

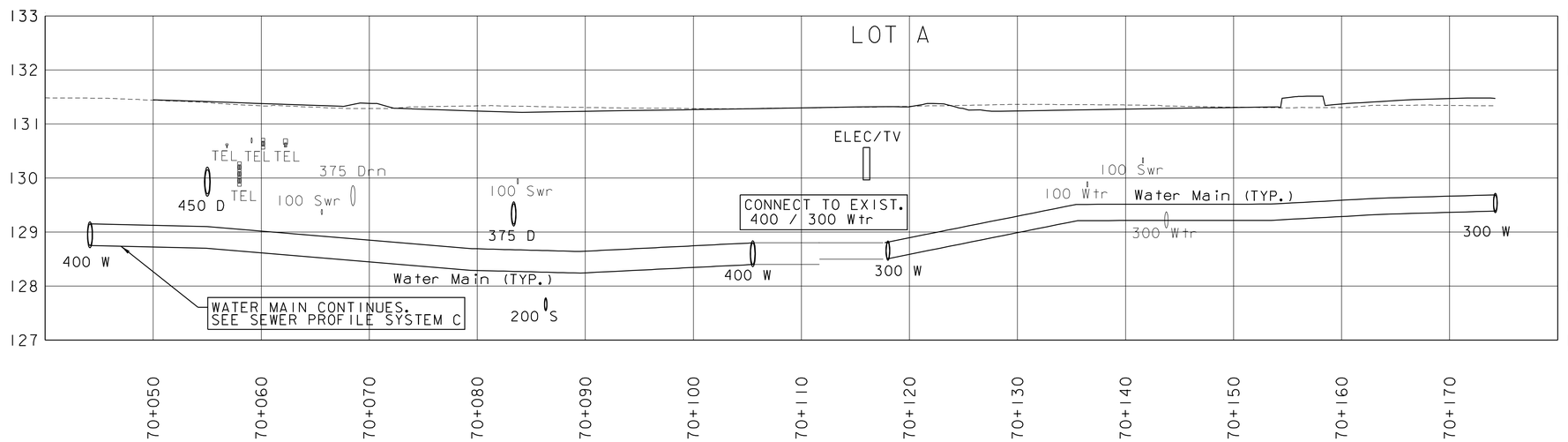
FILE NAME: zb008s6-swrpro.dgn
PROJECT LEADER: C. BEAN
DESIGNED BY: M. HALEY
PLOT DATE: 2/23/2017
DRAWN BY: M. HALEY
CHECKED BY: D. LEWIS
SHEET 276 OF 601

CLD 02-0448 MODEL: 8

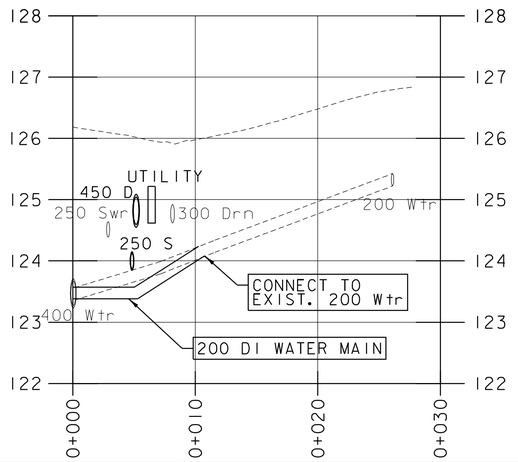
ISSUED FOR CONSTRUCTION

VAOT Metric



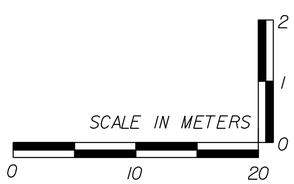


WEST SEMINARY ST
9+006.6 TO 9+008.5 LT



2	AUG. 2016	UPDATED PLAN SET
1	JAN. 2006	MODIFIED TO ADDRESS APRIL 18, 2005 WATER SUPPLY DIVISION COMMENTS

ABOVE WATER MAINS ARE NOT PROJECTED ON SEWER PROFILES DUE TO LOCATION.
THE PROPOSED WATER MAIN ELEVATIONS SHALL BE ADJUSTED TO AVOID OTHER UNDERGROUND FEATURES, AS NEEDED.
SEE PLANS, DETAILS, AND ROADWAY CROSS SECTIONS FOR LOCATIONS OF OTHER UNDERGROUND FEATURES.
SEE ROADWAY CROSS SECTIONS FOR APPROXIMATE LEDGE INFORMATION.



WATER PROFILE 1

PROJECT NAME: BRANDON
PROJECT NUMBER: NH 019-3(496)

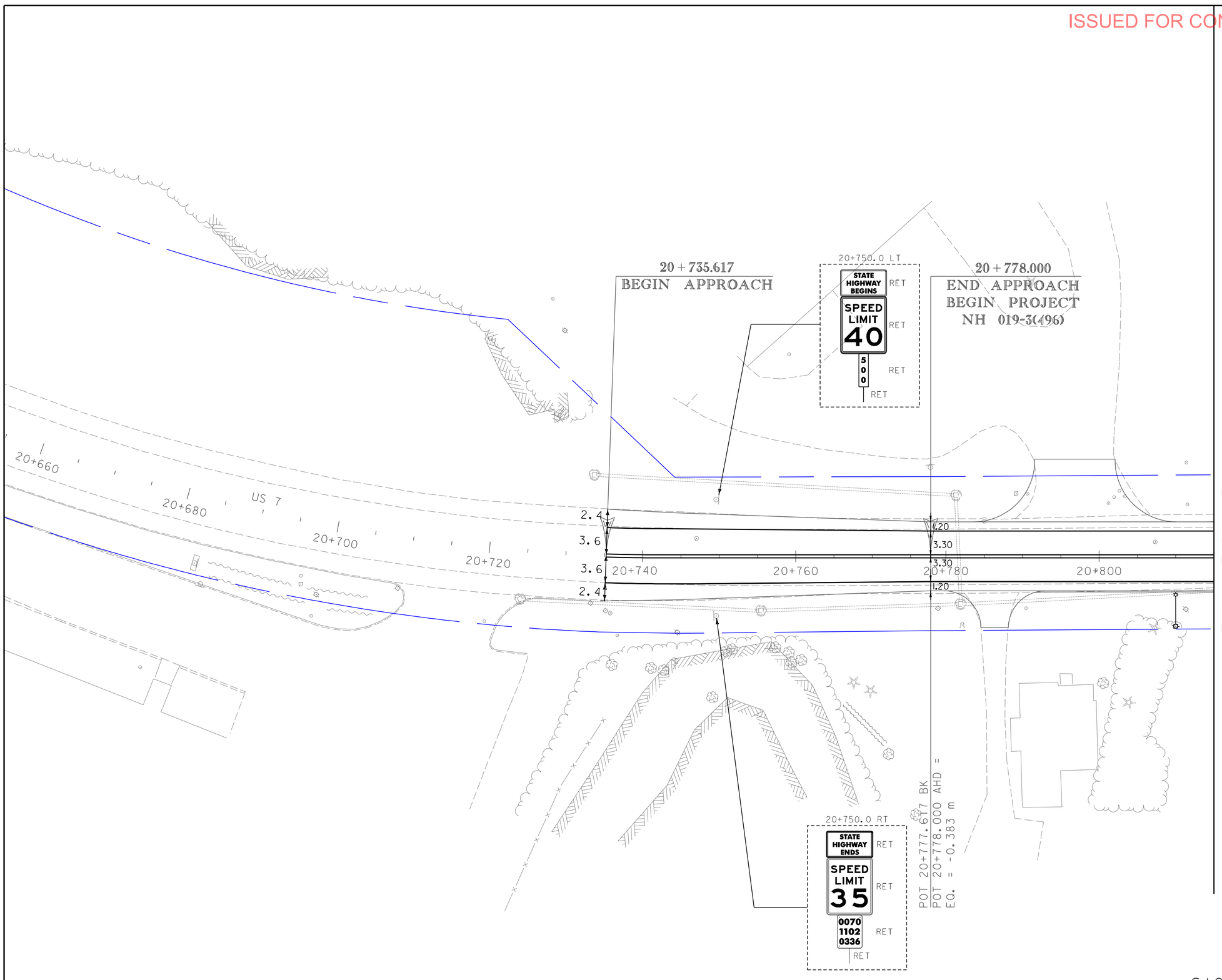
FILE NAME: zb008s6-swrpro.dgn
PROJECT LEADER: C. BEAN
DESIGNED BY: M. HALEY

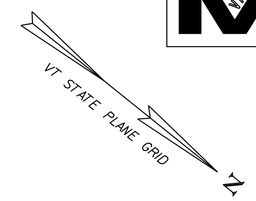
PLOT DATE: 2/23/2017
DRAWN BY: M. HALEY
CHECKED BY: D. LEWIS
SHEET 277 OF 601

CLD 02-0448 MODEL: 9

ISSUED FOR CONSTRUCTION

VAOT Metric





TEMPORARY 100 mm WHITE LINE
DURABLE 100 mm WHITE LINE, RECESSED POLYUREA
20+735.6 - 20+815.0 LT & RT SOLID

TEMPORARY 100 mm YELLOW LINE
DURABLE 100 mm YELLOW LINE, RECESSED POLYUREA
20+735.6 - 20+815.0 LT & RT SOLID

REFER TO VAOT STANDARD E-121 AND TRAFFIC SIGN SUMMARY SHEETS FOR LATERAL OFFSET AND VERTICAL CLEARANCE REQUIREMENTS FOR NEW SIGNS

SIGN LEGEND

R	=	REMOVE
S	=	SALVAGE
N	=	NEW
RET	=	RETAIN
T&T	=	THINNING & TRIMMING
B-B	=	BACK TO BACK
EXISTING		----------
NEW		————

0 10 20 30
SCALE IN METERS

SIGNING & PAVEMENT MARKING I

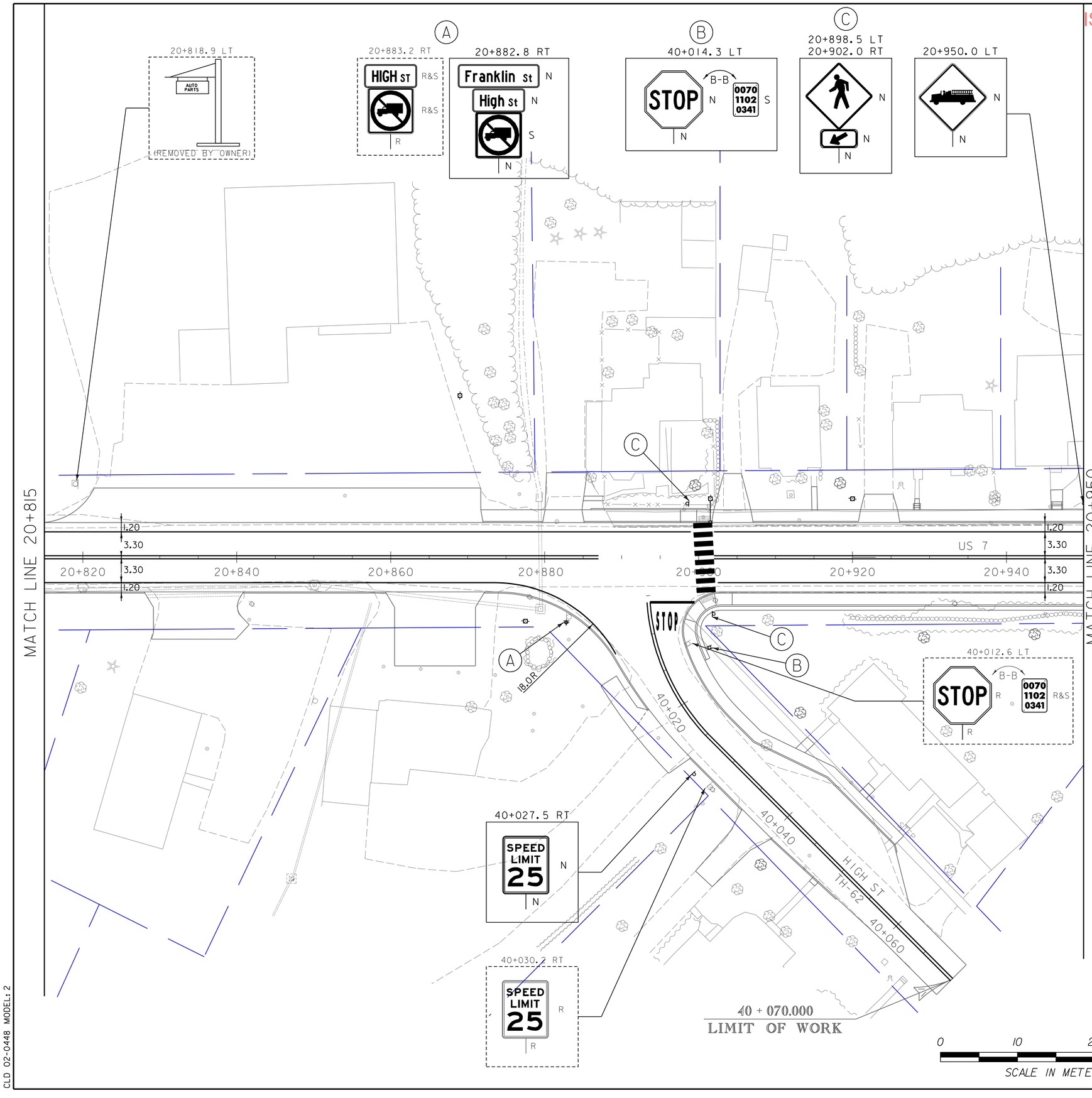
PROJECT NAME: BRANDON
PROJECT NUMBER: NH 019-3(496)

FILE NAME: zb008s6-ts.dgn
PROJECT LEADER: C. BEAN
DESIGNED BY: N. LEMAY
PLOT DATE: 2/23/2017
DRAWN BY: S. GOODWIN
CHECKED BY: D. MUNRO
SHEET 278 OF 601

CLD 02-0448 MODEL:1

ISSUED FOR CONSTRUCTION

VAOT Metric



VT STATE PLANE GRID

TEMPORARY 100 mm WHITE LINE
DURABLE 100 mm WHITE LINE, RECESSED POLYUREA
20+815.0 TO 40+011.3 RT SOLID
20+815.0 TO 20+899.0 LT SOLID
20+902.0 TO 20+950.0 LT SOLID
20+902.5 RT TO 20+950.0 RT SOLID

TEMPORARY 100 mm YELLOW LINE
DURABLE 100 mm YELLOW LINE, RECESSED POLYUREA
20+815.0 TO 20+887.0 LT & RT SOLID
20+902.0 TO 20+950.0 LT & RT SOLID
40+005.9 TO 40+070.0 LT & RT SOLID

TEMPORARY 600 mm STOP BAR
DURABLE 600 mm STOP BAR, RECESSED POLYUREA
40+005.9 LT

TEMPORARY LETTER OR SYMBOL
DURABLE LETTER OR SYMBOL, RECESSED POLYUREA
40+008.5 LT - "STOP"

TEMPORARY CROSSWALK MARKING
DURABLE CROSSWALK MARKING, RECESSED POLYUREA
20+900.5 LT TO 20+901.0 RT*

REMOVING SIGNS
AS SHOWN - 5

ERECTING SALVAGED SIGNS
AS SHOWN - 2

*SEE BLOCK PATTERN CROSSWALK DETAIL ON MISCELLANEOUS DETAILS SHEET

SIGN LEGEND

R	=	REMOVE
S	=	SALVAGE
N	=	NEW
RET	=	RETAIN
T&T	=	THINNING & TRIMMING
B-B	=	BACK TO BACK
EXISTING	=	----------
NEW	=	————

SIGNING & PAVEMENT MARKING 2

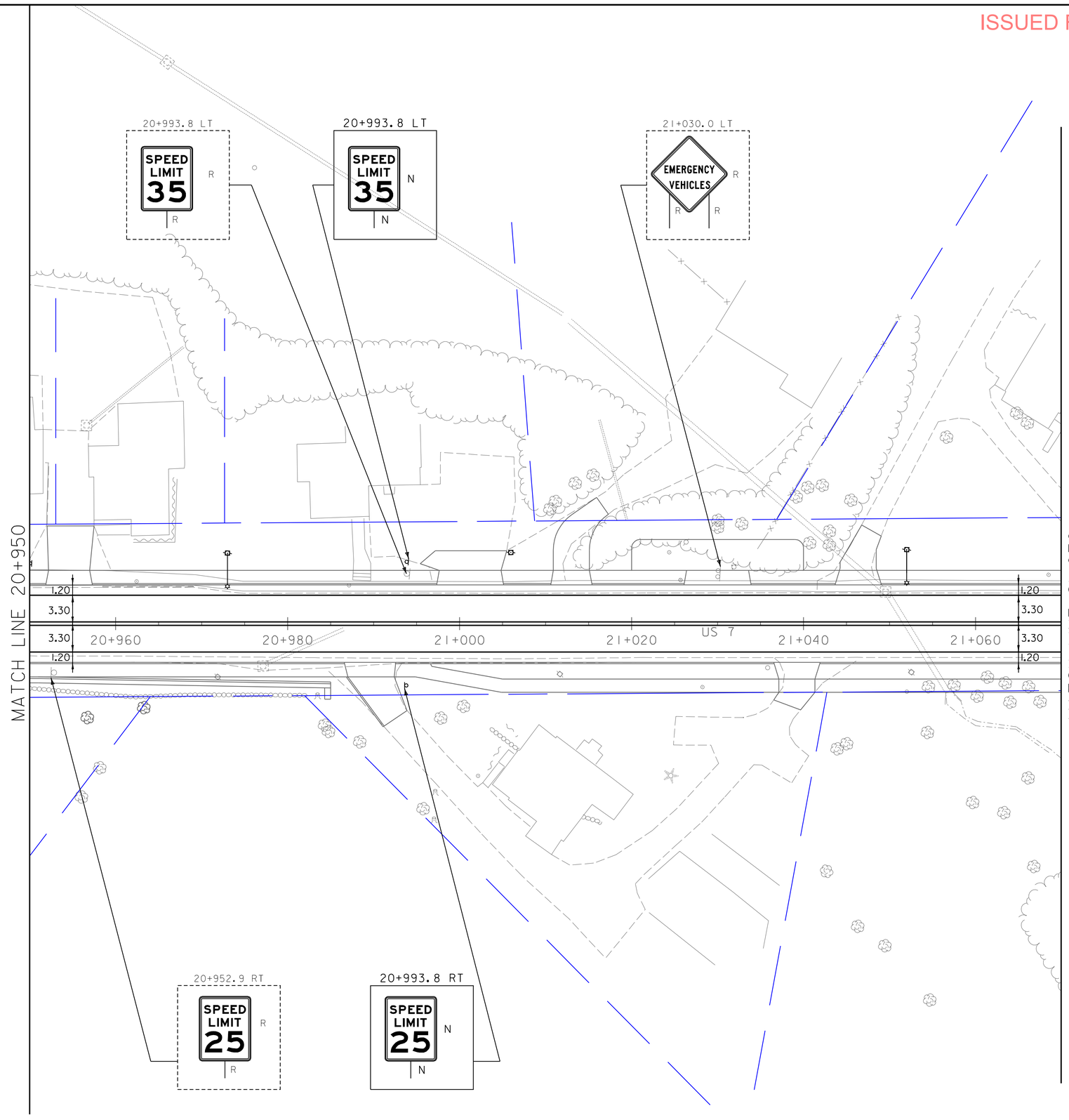
PROJECT NAME: BRANDON
PROJECT NUMBER: NH 019-3(496)

FILE NAME: zb008s6-ts.dgn
PROJECT LEADER: C. BEAN
DESIGNED BY: N. LEMAY
PLOT DATE: 2/23/2017
DRAWN BY: S. GOODWIN
CHECKED BY: D. MUNRO
SHEET 279 OF 601

CLD 02-0448 MODEL: 2

ISSUED FOR CONSTRUCTION

Metric



VT STATE PLANE GRID

TEMPORARY 100 mm WHITE LINE
DURABLE 100 mm WHITE LINE, RECESSED POLYUREA
20+950.0 TO 21+070.0 LT & RT SOLID

TEMPORARY 100 mm YELLOW LINE
DURABLE 100 mm YELLOW LINE, RECESSED POLYUREA
20+950.0 TO 21+070.0 LT & RT SOLID

REMOVING SIGNS
AS SHOWN - 3

SIGN LEGEND

R	= REMOVE
S	= SALVAGE
N	= NEW
RET	= RETAIN
T&T	= THINNING & TRIMMING
B-B	= BACK TO BACK
EXISTING	----------
NEW	————

0 10 20 30

SCALE IN METERS

SIGNING & PAVEMENT MARKING 3

PROJECT NAME: BRANDON
PROJECT NUMBER: NH 019-3(496)

FILE NAME: zb008s6-ts.dgn
PROJECT LEADER: C. BEAN
DESIGNED BY: N. LEMAY

PLOT DATE: 2/23/2017
DRAWN BY: S. GOODWIN
CHECKED BY: D. MUNRO
SHEET 280 OF 601

CLD 02-0448 MODEL: 3

ISSUED FOR CONSTRUCTION

VAOT Metric

21+130.0 LT

HIDDEN DRIVE RIGHT N

N

VT STATE PLANE GRID

N

MATCH LINE 21+070

1.20
3.30
3.30
1.20

21+080
21+100
21+120
21+140
21+160
21+180
21+200

US 7

1.20
3.30
3.30
1.20

MATCH LINE 21+210

SURVEY MARKER

21+102.4 RT

R
R
0070
1102
0356
R
R
R

TEMPORARY 100 mm WHITE LINE
DURABLE 100 mm WHITE LINE, RECESSED POLYUREA
21+070.0 TO 21+210.0 LT & RT SOLID

TEMPORARY 100 mm YELLOW LINE
DURABLE 100 mm YELLOW LINE, RECESSED POLYUREA
21+070.0 TO 21+210.0 LT & RT SOLID

REMOVING SIGNS
AS SHOWN - 3

SIGN LEGEND

R	= REMOVE
S	= SALVAGE
N	= NEW
RET	= RETAIN
T&T	= THINNING & TRIMMING
B-B	= BACK TO BACK
EXISTING	----------
NEW	————

0 10 20 30

SCALE IN METERS

SIGNING & PAVEMENT MARKING 4

PROJECT NAME: BRANDON
PROJECT NUMBER: NH 019-3(496)

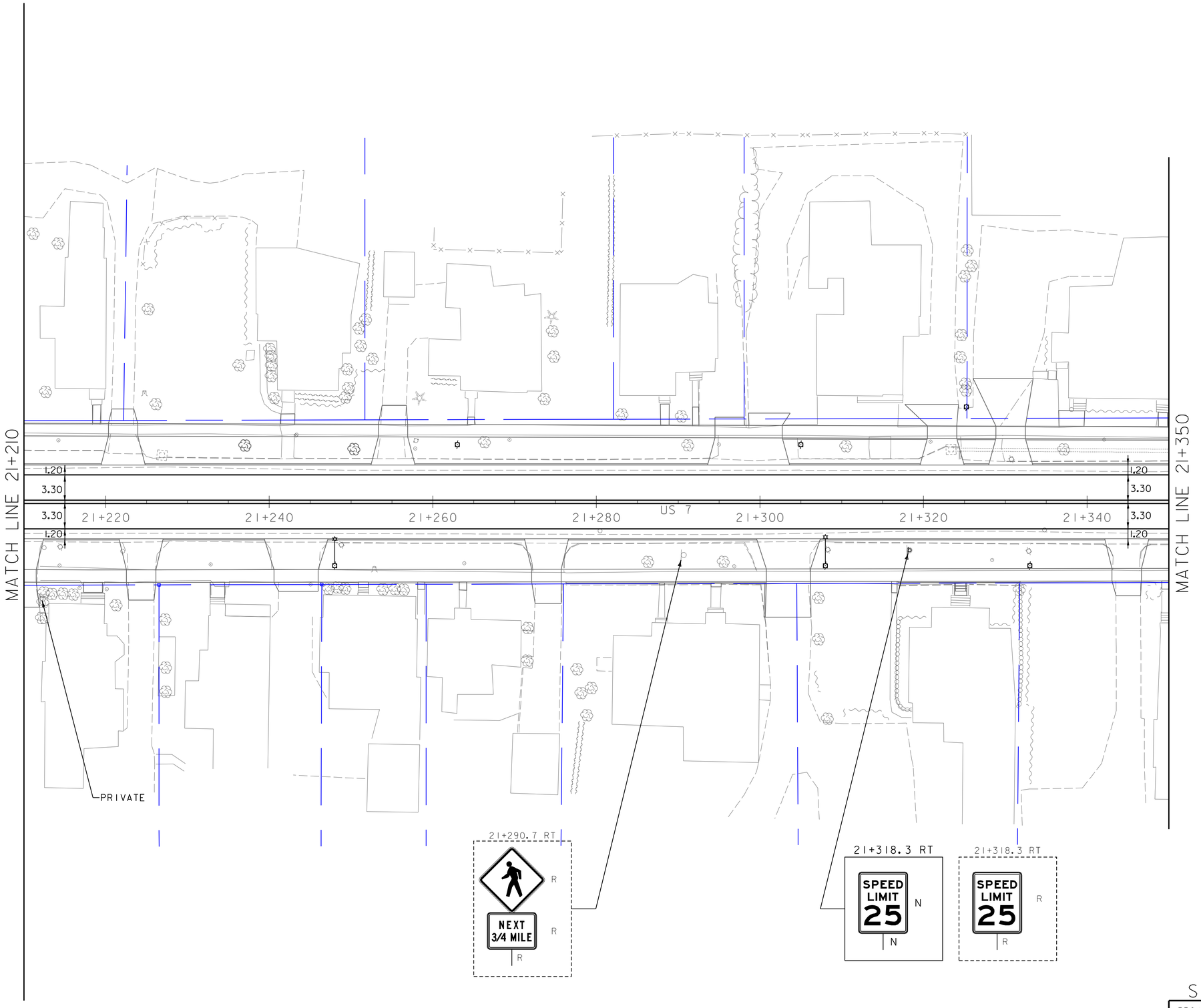
FILE NAME: zb008s6-ts.dgn
PROJECT LEADER: C. BEAN
DESIGNED BY: N. LEMAY

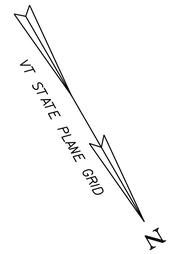
PLOT DATE: 2/23/2017
DRAWN BY: S. GOODWIN
CHECKED BY: D. MUNRO
SHEET 281 OF 601

CLD 02-0448 MODEL: 4

ISSUED FOR CONSTRUCTION

VAOT Metric





TEMPORARY 100 mm WHITE LINE
DURABLE 100 mm WHITE LINE, RECESSED POLYUREA
21+210.0 TO 21+350.0 LT & RT SOLID

TEMPORARY 100 mm YELLOW LINE
DURABLE 100 mm YELLOW LINE, RECESSED POLYUREA
21+210.0 TO 21+350.0 LT & RT SOLID

REMOVING SIGNS
AS SHOWN - 3

SIGN LEGEND

R	= REMOVE
S	= SALVAGE
N	= NEW
RET	= RETAIN
T&T	= THINNING & TRIMMING
B-B	= BACK TO BACK
EXISTING	----------
NEW	————

0 10 20 30

SCALE IN METERS

SIGNING & PAVEMENT MARKING 5

PROJECT NAME: BRANDON
PROJECT NUMBER: NH 019-3(496)

FILE NAME: zb008s6-ts.dgn
PROJECT LEADER: C. BEAN
DESIGNED BY: N. LEMAY

PLOT DATE: 2/23/2017
DRAWN BY: S. GOODWIN
CHECKED BY: D. MUNRO
SHEET 282 OF 601

CLD 02-0448 MODEL: 5

ISSUED FOR CONSTRUCTION

VAOT Metric

VT STATE PLANE GRID N

TEMPORARY 100 mm WHITE LINE
DURABLE 100 mm WHITE LINE, RECESSED POLYUREA
21+350.0 TO 21+410.0 LT & RT SOLID
21+408.0 TO 21+410.0 LT SOLID (PARKING)
36+070.0 TO 36+120.0 LT & RT SOLID
36+070.0 TO 36+084.1 RT SOLID (PARKING)
36+087.9 TO 36+097.1 RT SOLID (NO PARKING)

TEMPORARY 100 mm YELLOW LINE
DURABLE 100 mm YELLOW LINE, RECESSED POLYUREA
21+350.0 TO 21+410.0 LT & RT SOLID
36+070.0 TO 36+120.0 LT & RT SOLID

TEMPORARY LETTER OR SYMBOL
DURABLE LETTER OR SYMBOL, RECESSED POLYUREA
36+083.9 LT - "AHEAD"
36+096.1 LT - "SIGNAL"

REMOVING SIGNS
AS SHOWN - 5

21+397.9 LT
SPEED LIMIT 25 N
N

MATCH LINE 21+410

21+400
21+380
21+360
1.20
3.30
3.30
1.20
US 7
PRIVATE

MATCH LINE 21+350

21+376.0 RT
JCT VERMONT 73 N
N

21+376.0 RT
JCT VERMONT 73 R
R

MATCH LINE 36+070

3.80
2.40
3.60
3.60
1.50
2.70 TYP.
36+080
AHEAD
SIGNAL
36+100
36+120
PRIVATE

36+083.4 LT
PVT S. RAY DR RET
RET

36+090.0 LT
N
N

36+120.0 LT
JCT 7 N
N

36+120.0 RT
SPEED LIMIT 25 N
N

36+126.7 LT
JCT 7 R
0730
1102
0310
R

36 + 120.000
LIMIT OF WORK

VT 73
TH-3

SIGN LEGEND

R	=	REMOVE
S	=	SALVAGE
N	=	NEW
RET	=	RETAIN
T&T	=	THINNING & TRIMMING
B-B	=	BACK TO BACK
EXISTING		----------
NEW		————

0 10 20 30
SCALE IN METERS

SIGNING & PAVEMENT MARKING 6

PROJECT NAME: BRANDON
PROJECT NUMBER: NH 019-3(496)

FILE NAME: zb008s6-ts.dgn
PROJECT LEADER: C. BEAN
DESIGNED BY: N. LEMAY
PLOT DATE: 2/23/2017
DRAWN BY: S. GOODWIN
CHECKED BY: D. MUNRO
SHEET 283 OF 601

CLD 02-0448 MODEL: 6

ISSUED FOR CONSTRUCTION

VAOT Metric

VT STATE PLANE GRID

21+494.6 LT
WHITTAKER REAL ESTATE R&S
R
R&S R&S

21+464.5 LT
SOUTH 7 R R

21+448.2 RT
CATHOLIC CHURCH R
TIC R&S
R

21+433.7 RT
15 M.P.H. R R

MATCH LINE 21+510

MATCH LINE 30+058

MATCH LINE 21+410

MATCH LINE 36+070

US 7

VT 73

TH-3

LOT-A

21+500

21+480

21+460

21+440

21+420

30+040

30+020

36+020

36+040

36+060

30+049.3 LT
R (6)
EAST VERMONT 73 SOUTH 7
R R

30+046.1 RT
PVT RANDLE DR R&S
R

21+500.2 RT
R (5) B-B R (6)
EAST VERMONT 73 NORTH 7 EAST VERMONT 73 SOUTH 7
R

PRIVATE

36+036.2 LT
R (9)
SOUTH 7 NORTH 7 WEST VERMONT 73
R

36+044.5 LT
WYNDMERE HOUSE B&B
(REMOVED BY OWNER)

36+032.6 RT
YIELD R
SPEED LIMIT 25 R
R

36+063.8 RT
DURING LIBRARY HOURS PARKING FOR PATRONS ONLY VIOLATORS WILL BE TOWED R&S
R

A
21+420.5 LT
SPEED LIMIT 25 R
R

B
21+472.4 RT
R
R

C
36+011.3 RT
PARK ST R
R

D
30+054.6 RT
36+014.5 LT
STOP R
R

E
36+057.7 RT
36+061.0 RT
RESERVED PARKING R
R

F
30+038.6 RT
DAVIS ASSOCIATES REAL ESTATE INSURANCE
(REMOVED BY OWNER)

REMOVING SIGNS
AS SHOWN - 46

SIGN LEGEND

R	= REMOVE
S	= SALVAGE
N	= NEW
RET	= RETAIN
T&T	= THINNING & TRIMMING
B-B	= BACK TO BACK
EXISTING	----------
NEW	————

0 10 20 30
SCALE IN METERS

SIGNING & PAVEMENT MARKING 7-1

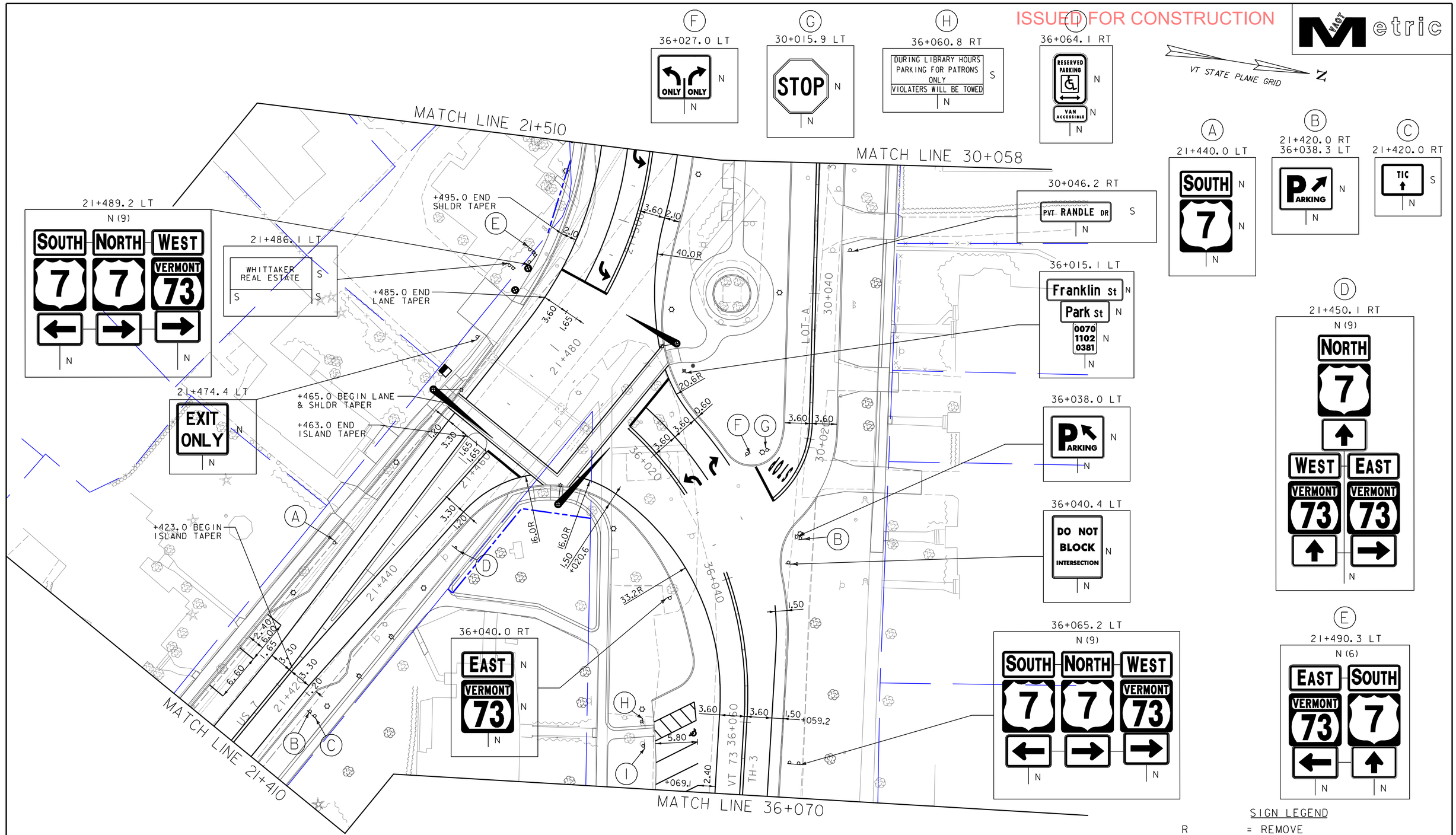
PROJECT NAME: BRANDON
PROJECT NUMBER: NH 019-3(496)

FILE NAME: zb008s6-ts.dgn
PROJECT LEADER: C. BEAN
DESIGNED BY: N. LEMAY
PLOT DATE: 2/23/2017
DRAWN BY: S. GOODWIN
CHECKED BY: D. MUNRO
SHEET 284 OF 601

CLD 02-0448 MODEL: 7-1

ISSUED FOR CONSTRUCTION

VAOT Metric



TEMPORARY 100 mm WHITE LINE
DURABLE 100 mm WHITE LINE, RECESSED POLYUREA

21+410.0 TO 21+426.6 LT SOLID (PARKING)
21+410.0 TO 21+464.4 LT & RT SOLID
21+466.8 TO 21+510.0 LT SOLID
21+487.5 TO 21+510.0 RT SOLID
21+490.0 TO 21+510.0 LT SOLID (LANE LINE)
36+013.4 TO 36+027.0 LT SOLID
36+014.1 TO 36+070.0 RT SOLID
36+014.7 TO 36+027.0 LT SOLID (LANE LINE)
36+045.0 TO 36+070.0 LT SOLID
36+056.8 TO 36+059.7 RT SOLID (NO PARKING)
36+062.6 TO 36+070.0 RT SOLID (PARKING)

TEMPORARY 200 mm WHITE LINE
DURABLE 200 mm WHITE LINE, RECESSED POLYUREA

36+056.8 TO 36+059.7 RT SOLID (NO PARKING)

TEMPORARY 100 mm YELLOW LINE
DURABLE 100 mm YELLOW LINE, RECESSED POLYUREA

21+410.0 TO 21+463.0 LT & RT SOLID
21+490.0 TO 21+510.0 RT DOUBLE SOLID
30+010.0 TO 30+058.0 LT & RT SOLID
36+014.8 TO 36+027.0 LT & RT SOLID
36+039.0 TO 36+070.0 LT & RT SOLID

TEMPORARY 600 mm STOP BAR
DURABLE 600 mm STOP BAR, RECESSED POLYUREA

21+463.0 RT
21+490.0 LT/RT
30+010.0 LT
36+014.8 LT

TEMPORARY LETTER OR SYMBOL, PAINT
DURABLE LETTER OR SYMBOL, RECESSED POLYUREA

21+492.5 C/L - LEFT TURN ARROW
21+508.7 C/L - LEFT TURN ARROW
30+012.7 LT - "STOP"
36+025.9 LT - LEFT TURN ARROW
36+025.9 LT - RIGHT TURN ARROW
36+062.0 RT - HANDICAP SYMBOL

TEMPORARY CROSSWALK MARKING
DURABLE CROSSWALK MARKING, RECESSED POLYUREA

21+465.6 LT/RT
36+012.5 LT/RT

ERECTING SALVAGED SIGNS
AS SHOWN - 4

SIGN LEGEND

R	=	REMOVE
S	=	SALVAGE
N	=	NEW
RET	=	RETAIN
T&T	=	THINNING & TRIMMING
B-B	=	BACK TO BACK
EXISTING		
NEW		

0 10 20 30
SCALE IN METERS

SIGNING & PAVEMENT MARKING 7-2

PROJECT NAME: BRANDON
PROJECT NUMBER: NH 019-3(496)

FILE NAME: zb008s6-ts.dgn
PROJECT LEADER: C. BEAN
DESIGNED BY: N. LEMAY
PLOT DATE: 2/23/2017
DRAWN BY: S. GOODWIN
CHECKED BY: D. MUNRO
SHEET 285 OF 601

CLD 02-0448 MODEL: 7-2

ISSUED FOR CONSTRUCTION

VAOT Metric

35+063.1 RT
SUPERMARKET DR PVT
SPEED LIMIT 25
R

35+063.5 RT
HANNAFORD
(REMOVED BY OWNER)

21+607.4 LT
RITE AID
(REMOVED BY OWNER)

PRIVATE

35+080
TH-5
UNION STREET
35+060
35+040
35+020

35 + 066.000
LIMIT OF WORK

MATCH LINE 21+615

MATCH LINE 30+149

21+575.7 LT
7
R

PRIVATE

30+074.3 RT
CRIME WATCH
RET

34+020
34+040
TH-42 34+060
CARVER ST

SEE PLAN 8B

21+000
21+560
US 7
30+140
30+100
LOT-A
30+080
30+060

TWINS
SIGNAL
AHEAD

MATCH LINE 21+510

MATCH LINE 30+058

0 10 20 30
SCALE IN METERS

A
21+511.7 LT
STOP
R

B
21+572.4 LT
21+595.2 LT
34+029.7 LT
STOP
4-WAY
R

C
21+555.2 RT
21+600.4 RT
30+094.1 LT
TOWN OF BRANDON
VILLAGE GREEN
HOURS
6AM TO 11PM
BY BOARD OF
SELECTMAN
(RETURN TO TOWN)
R

D
35+045.9 LT
SPEED LIMIT 25
R

E
34+020.2 LT
B-B
CATHOLIC CHURCH
CATHOLIC CHURCH
R

VT STATE PLANE GRID
N

21+613.2 RT
PARK ST
CARVER ST
STOP
R

F
35+079.8 LT
NO PARKING THIS SIDE
R

21+614.3 RT
SOUTH
7
ACTR
BUS STOP
R

G
21+549.5 RT
21+551.2 LT
21+581.1 LT
21+595.4 LT
30+106.7 RT
R

H
21+577.6 LT
STOP
R

30+117.0 LT
B-B
PLEASE CLEAN UP AFTER YOUR PET
BRANDON HAS A LEASH LAW
(RETURN TO TOWN)
R

30+094.1 RT
BRANDON INN
(REMOVED BY OWNER)

30+086.1 RT
BRANDON INN MENU BOARD
(REMOVED BY OWNER)

21+522.2 RT
FRANKLIN ST
UNION ST
R

30+062.9 RT
FRANKLIN ST
PARK ST
R

SIGN LEGEND

R	=	REMOVE
S	=	SALVAGE
N	=	NEW
RET	=	RETAIN
T&T	=	THINNING & TRIMMING
B-B	=	BACK TO BACK
EXISTING		----------
NEW		————

REMOVING SIGNS
AS SHOWN - 46

SIGNING & PAVEMENT MARKING 8-1

PROJECT NAME: BRANDON
PROJECT NUMBER: NH 019-3(496)

FILE NAME: zb008s6-ts.dgn
PROJECT LEADER: C. BEAN
DESIGNED BY: N. LEMAY
PLOT DATE: 2/23/2017
DRAWN BY: S. GOODWIN
CHECKED BY: D. MUNRO
SHEET 286 OF 601

CLD 02-0448 MODEL: 8-1

ISSUED FOR CONSTRUCTION

VAOT Metric

35+073.0 RT — SPEED LIMIT 25 N

35+039.8 RT — RESERVED PARKING N (MOUNT ON WALL)

35+036.5 RT — RESERVED PARKING N; VAN ACCESSIBLE N (MOUNT ON WALL)

A — 21+510.0 LT, 21+539.6 RT — ONLY N

B — 21+552.9 LT — N (6) EAST SOUTH VERMONT 73 7

C — 34+032.1 LT, 35+030.0 LT — ONLY ONLY N

D — 30+062.0 RT, 30+063.8 LT, 30+117.9 RT, 30+119.4 LT

E — 30+104.0 RT, 34+038.8 RT — RESERVED PARKING N; VAN ACCESSIBLE N

F — 21+533.8 LT

VT STATE PLANE GRID N

35 + 066.000
LIMIT OF WORK

MATCH LINE 21+615

MATCH LINE 30+149

MATCH LINE 21+510

MATCH LINE 30+058

SEE PLAN 8B

35+016.5 LT — Union St N

34+029.5 RT — LEGAL LOAD LIMIT 24,000 POUNDS N

34+015.3 LT — Carver St N

+595.0 BEGIN SHLDR & ISLAND TAPER

+530.0 TAPER

+520.0 TAPER

+510.0 TAPER

TH-5 UNION STREET

TH-42 CARVER ST

US 7

TWINS

DRAIN

LOT-A

30+140

30+100

30+080

30+060

35+080 35+060 35+040 35+020 34+060 34+040 34+020

0 10 20 30
SCALE IN METERS

TEMPORARY 100 mm WHITE LINE
DURABLE 100 mm WHITE LINE, RECESSED POLYUREA
21+510.0 TO 21+527.8 LT DOTTED (LANE LINE)
21+510.0 TO 21+554.9 LT SOLID
21+510.0 TO 21+573.1 RT SOLID
21+523.5 TO 21+540.0 RT DOTTED (LANE LINE)
21+540.0 TO 21+559.1 RT SOLID (LANE LINE)
21+543.0 TO 21+549.1 LT SOLID (PARKING)
21+575.8 TO 21+615.0 RT SOLID
21+594.7 TO 21+615.0 LT SOLID
21+606.1 TO 21+615.0 LT SOLID (PARKING)
30+072.9 TO 30+099.9 RT SOLID (PARKING)
30+099.9 TO 30+102.6 RT SOLID (NO PARKING)
30+102.6 TO 30+105.3 RT SOLID (PARKING)
30+122.9 TO 30+148.2 LT SOLID (PARKING)
30+123.0 TO 30+124.4 RT SOLID (NO PARKING)
30+126.6 TO 30+145.5 RT SOLID (PARKING)
30+148.2 TO 30+149.0 RT SOLID (NO PARKING)
34+012.0 TO 34+073.0 LT & RT SOLID
34+013.2 TO 34+032.2 LT SOLID (LANE LINE)
34+031.7 TO 34+033.8 RT SOLID (NO PARKING)
34+036.9 TO 34+058.7 RT SOLID (PARKING)
35+011.8 TO 35+016.7 RT SOLID (NO PARKING)
35+011.8 TO 35+051.5 RT SOLID (PARKING - 23 SPACES)
35+012.8 TO 35+066.0 LT & RT SOLID
35+013.9 TO 35+030.0 LT SOLID (LANE LINE)
35+016.8 TO 35+021.7 RT SOLID (NO PARKING)
35+031.6 TO 35+033.5 RT SOLID (NO PARKING)
35+035.9 TO 35+037.3 RT SOLID (NO PARKING)

TEMPORARY 100 mm YELLOW LINE
DURABLE 100 mm YELLOW LINE, RECESSED POLYUREA
21+510.0 RT TO 21+559.1 LT DOUBLE SOLID
21+595.3 TO 21+615.0 LT & RT SOLID
30+058.0 TO 30+063.0 LT & RT SOLID
34+013.2 TO 34+080.0 LT & RT SOLID
35+013.9 TO 35+085.0 RT DOUBLE SOLID**

** TAPER CENTERLINE MARKINGS TO MATCH INTO EXISTING MARKINGS.

TEMPORARY 600 mm STOP BAR
DURABLE 600 mm STOP BAR, RECESSED POLYUREA
21+559.1 LT/RT
21+598.5 LT
34+013.2 LT
35+013.9 LT/RT

TEMPORARY LETTER OR SYMBOL
DURABLE LETTER OR SYMBOL, RECESSED POLYUREA
21+528.0 LT - AHEAD
21+540.0 LT - SIGNAL
21+541.4 C/L - LEFT TURN ARROW
21+556.7 C/L - LEFT TURN ARROW
30+103.8 RT - HANDICAP SYMBOL
34+015.5 LT - LEFT TURN ARROW
34+015.5 LT - RIGHT TURN ARROW
34+030.8 LT - LEFT TURN ARROW
34+030.8 LT - RIGHT TURN ARROW
34+035.4 RT - HANDICAP SYMBOL
35+016.5 C/L - LEFT TURN ARROW
35+016.5 LT - RIGHT TURN ARROW
35+028.8 C/L - LEFT TURN ARROW
35+028.8 LT - RIGHT TURN ARROW
35+034.4 RT - HANDICAP SYMBOL
35+038.3 RT - HANDICAP SYMBOL

TEMPORARY CROSSWALK MARKING
DURABLE CROSSWALK MARKING, RECESSED POLYUREA
21+574.5 LT/RT
30+065.8 LT/RT
30+118.7 LT/RT
34+010.8 LT/RT
35+011.5 LT/RT

SIGN LEGEND

R	=	REMOVE
S	=	SALVAGE
N	=	NEW
RET	=	RETAIN
T&T	=	THINNING & TRIMMING
B-B	=	BACK TO BACK
EXISTING		----------
NEW		————

SIGNING & PAVEMENT MARKING 8-2

PROJECT NAME: BRANDON
PROJECT NUMBER: NH 019-3(496)

FILE NAME: zb008s6-ts.dgn
PROJECT LEADER: C. BEAN
DESIGNED BY: N. LEMAY
PLOT DATE: 2/23/2017
DRAWN BY: S. GOODWIN
CHECKED BY: D. MUNRO
SHEET 287 OF 601

CLD 02-0448 MODEL: 8-2

ISSUED FOR CONSTRUCTION

VAOT Metric

37 + 070.000
LIMIT OF WORK

34 + 210.000
LIMIT OF WORK

37+080

37+060 ROSSITER ST 37+040

37+020

APPROX. EXIST. ROW

APPROX. EXIST. ROW

34+207.9 RT

Carver St N
Rossiter St N
STOP N

34+207.9 RT

STOP R

34+197.9 RT

ROSSITER ST R
CARVER ST R

STOP

34+096.9 RT

SPEED LIMIT 25 R

34+096.9 RT

SPEED LIMIT 25 N

APPROX. EXIST. ROW

APPROX. EXIST. ROW

34+240 34+220 34+200 34+180 34+160 34+140 TH-42 34+120 34+100 34+

CARVER ST

SIGNAL AHEAD

SEE PLAN 8

APPROX. EXIST. ROW

APPROX. EXIST. ROW

34+088.8 LT

N
N

34+087.7 LT

R
R

TEMPORARY 100 mm YELLOW LINE
DURABLE 100 mm YELLOW LINE, RECESSED POLYUREA
34+080.0 TO 34+195.0 LT & RT SOLID
37+010.1 TO 37+070.0 LT & RT SOLID

TEMPORARY 600 mm STOP BAR
DURABLE 600 mm STOP BAR, RECESSED POLYUREA
37+010.1 LT

TEMPORARY LETTER OR SYMBOL
DURABLE LETTER OR SYMBOL, RECESSED POLYUREA
34+081.4 LT - "AHEAD"
34+093.9 LT - "SIGNAL"
37+012.7 LT - "STOP"

TEMPORARY CROSSWALK MARKING
DURABLE CROSSWALK MARKING, RECESSED POLYUREA
37+007.7 LT/RT*

REMOVING SIGNS
AS SHOWN - 5

SPECIAL PROVISION (SOIL BEARING SLIP BASE) (2 1/2")
34+207.9 RT

*SEE BLOCK PATTERN CROSSWALK DETAIL
ON MISCELLANEOUS DETAILS SHEET

VT STATE PLANE GRID N

SIGN LEGEND

R	=	REMOVE
S	=	SALVAGE
N	=	NEW
RET	=	RETAIN
T&T	=	THINNING & TRIMMING
B-B	=	BACK TO BACK
EXISTING		----------
NEW		————

0 10 20 30

SCALE IN METERS

SIGNING & PAVEMENT MARKING 8B

PROJECT NAME: BRANDON
PROJECT NUMBER: NH 019-3(496)

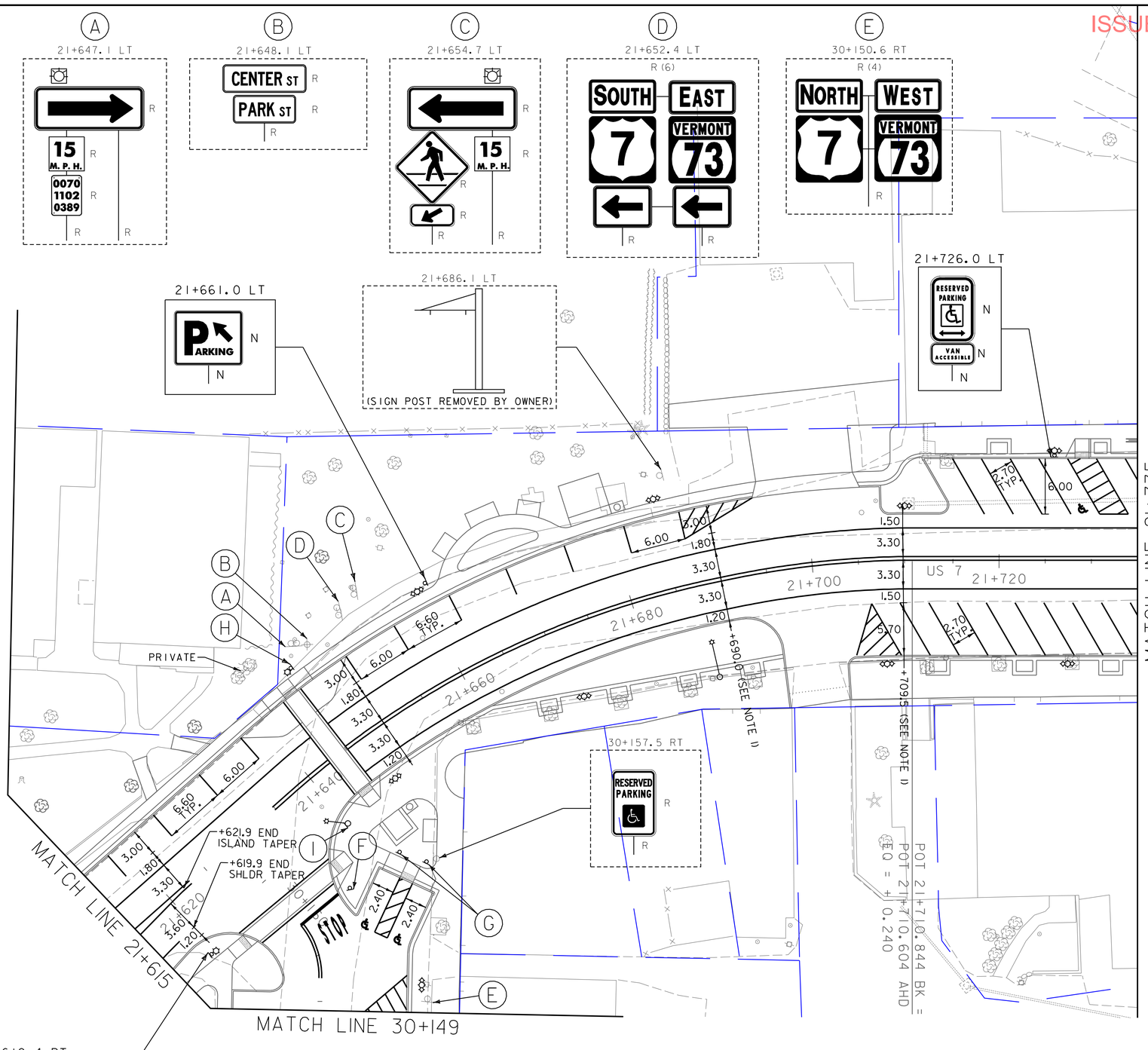
FILE NAME: zb008s6-ts.dgn
PROJECT LEADER: C. BEAN
DESIGNED BY: N. LEMAY

PLOT DATE: 2/23/2017
DRAWN BY: S. GOODWIN
CHECKED BY: D. MUNRO
SHEET 288 OF 601

CLD 02-0448 MODEL: 8B

ISSUED FOR CONSTRUCTION

VAOT Metric



VT STATE PLANE GRID N

NOTE:
1. TAPER DOUBLE YELLOW LINES FROM CENTERLINE AT 21+690.0 TO 300 mm LEFT OF CENTERLINE AT 21+709.5.

TEMPORARY 100 mm WHITE LINE
DURABLE 100 mm WHITE LINE, RECESSED POLYUREA
21+615.0 TO 21+617.7 RT SOLID
21+615.0 TO 21+637.3 LT SOLID (PARKING)
21+615.0 TO 21+642.8 LT SOLID
21+645.2 TO 21+735.0 LT & RT SOLID
21+650.6 TO 21+687.2 LT SOLID (PARKING)
21+687.2 TO 21+694.6 LT SOLID (NO PARKING)
21+704.2 TO 21+706.6 RT SOLID (NO PARKING)
21+709.9 TO 21+735.0 RT SOLID (PARKING)
21+718.4 TO 21+730.9 LT SOLID (PARKING)
21+730.9 TO 21+734.0 LT SOLID (NO PARKING)
21+734.0 TO 21+735.0 LT SOLID (PARKING)
30+149.0 TO 30+152.8 RT SOLID (NO PARKING)
30+155.0 TO 30+157.6 RT SOLID (NO PARKING)

TEMPORARY 100 mm YELLOW LINE
DURABLE 100 mm YELLOW LINE, RECESSED POLYUREA
21+615.0 TO 21+622.9 LT & RT SOLID
21+634.9 TO 21+642.8 LT & RT SOLID
21+645.2 CL TO 21+735.0 LT DOUBLE SOLID
30+152.5 TO 30+158.8 LT & RT SOLID

TEMPORARY 600 mm STOP BAR
DURABLE 600 mm STOP BAR, RECESSED POLYUREA
30+158.8 RT

TEMPORARY LETTER OR SYMBOL
DURABLE LETTER OR SYMBOL, RECESSED POLYUREA
21+729.2 LT - HANDICAP SYMBOL
30+154.6 RT - HANDICAP SYMBOL
30+156.0 RT - HANDICAP SYMBOL
30+156.9 RT - "STOP"

TEMPORARY CROSSWALK MARKING
DURABLE CROSSWALK MARKING, RECESSED POLYUREA
21+644.0 LT/RT
30+161.2 LT/RT

REMOVING SIGNS
AS SHOWN - 20

SIGN LEGEND

R	=	REMOVE
S	=	SALVAGE
N	=	NEW
RET	=	RETAIN
T&T	=	THINNING & TRIMMING
B-B	=	BACK TO BACK
EXISTING		----------
NEW		————

0 10 20 30
SCALE IN METERS

SIGNING & PAVEMENT MARKING 9

PROJECT NAME: BRANDON
PROJECT NUMBER: NH 019-3(496)

FILE NAME: zb008s6-ts.dgn
PROJECT LEADER: C. BEAN
DESIGNED BY: N. LEMAY
PLOT DATE: 2/23/2017
DRAWN BY: S. GOODWIN
CHECKED BY: D. MUNRO
SHEET 289 OF 601

CLD 02-0448 MODEL: 9

ISSUED FOR CONSTRUCTION

VAOT Metric

MATCH LINE 21+735

MATCH LINE 21+870

VT STATE PLANE GRID N

21+756.4 LT
MILL LN R
R

21+779.9 LT
15 M.P.H. R
R

21+866.0 LT
FOUND OBJECTS ANTIQUES
RET
RET

PRIVATE

21+842.4 RT
CONANT SQ. R
W. SEMINARY ST R
R

9+011.2 LT
RECREATION DEPT LISTERS OFFICE R&S
R

9+011.7 LT
ENTRANCE R&S
R

9+025.6 LT
RESERVED PARKING R
R

9+012.4 LT
STOP B-B R
0070
1102
0400
R&S
R

9+034.0 LT
RESERVED PARKING R
R

TH-52 MILL LANE

US 7

21+740
21+750
21+760
21+780
21+800
21+820
21+840
21+860
9+020
9+040
9+060
9+080
9+100

TOWN MESSAGE BOARD

21+820.2 RT
CENTER ST R
R

9+059.0 RT
RESIDENTIAL RET
SPEED LIMIT 25 RET
UNLESS OTHERWISE POSTED RET
RET

21+742.7 RT
R
R

21+791.2 RT
RESERVED PARKING R
R

21+806.9 RT
R
PARKING FOR TOWN BUSINESS ONLY 15 MINUTE LIMIT R
R

WEST SEMINARY STREET TH-69

9 + 090.000
LIMIT OF WORK

REMOVING SIGNS
AS SHOWN - 17

SIGN LEGEND

R	=	REMOVE
S	=	SALVAGE
N	=	NEW
RET	=	RETAIN
T&T	=	THINNING & TRIMMING
B-B	=	BACK TO BACK
EXISTING	=	----------
NEW	=	----------

0 10 20 30
SCALE IN METERS

SIGNING & PAVEMENT MARKING 10-1

PROJECT NAME: BRANDON
PROJECT NUMBER: NH 019-3(496)

FILE NAME: zb008s6-ts.dgn
PROJECT LEADER: C. BEAN
DESIGNED BY: N. LEMAY

PLOT DATE: 2/23/2017
DRAWN BY: S. GOODWIN
CHECKED BY: D. MUNRO
SHEET 290 OF 601

CLD 02-0448 MODEL: 10-1

ISSUED FOR CONSTRUCTION

VAOT Metric

NOTE:
1. TAPER DOUBLE YELLOW LINES FROM 300 mm LEFT OF CENTERLINE AT 21+741.1 TO CENTERLINE AT 21+760.0.

VT STATE PLANE GRID N

21+748.0 LT
Center St N
Mill Ln N
STOP N
N

21+856.2 LT
N
50 FT N
N

MATCH LINE 21+870

A 21+759.9 RT
N
N
N

B 21+764.5 LT
N
N
MOUNT ON LIGHT POLE

C 21+775.0 RT
RESERVED PARKING N
VAN ACCESSIBLE N
N

D 21+800.7 RT
RESERVED PARKING N
N

9+011.2 LT
RECREATION DEPT LISTERS OFFICE S
N

9+011.7 LT
ENTRANCE S
N

9+011.5 LT
Conant Sq N
W Seminary St N
N N

9+013.3 LT
STOP B-B
N 0070 1102 0400 S
N

ERECTING SALVAGED SIGNS
AS SHOWN - 3

9+028.6 RT
LEGAL LOAD LIMIT 24,000 POUNDS N
N

9+059.0 RT
RESIDENTIAL RET
SPEED LIMIT 25 RET
UNLESS OTHERWISE POSTED RET
RET

21+809.1 RT
N
50 FT N
N

SIGN LEGEND

R	=	REMOVE
S	=	SALVAGE
N	=	NEW
RET	=	RETAIN
T&T	=	THINNING & TRIMMING
B-B	=	BACK TO BACK
EXISTING	=	----------
NEW	=	————

TEMPORARY 100 mm WHITE LINE
DURABLE 100 mm WHITE LINE, RECESSED POLYUREA

21+735.0 TO 21+761.1 LT & RT SOLID
21+735.0 TO 21+740.2 LT SOLID (PARKING)
21+735.0 TO 21+754.5 RT SOLID (PARKING)
21+763.5 TO 21+824.3 RT SOLID
21+763.5 TO 21+832.7 LT SOLID
21+767.0 TO 21+769.6 RT SOLID (NO PARKING)
21+770.0 TO 21+797.0 LT SOLID (PARKING)
21+772.6 TO 21+775.6 RT SOLID (PARKING)
21+778.6 TO 21+786.8 RT SOLID (NO PARKING)
21+789.7 TO 21+795.7 RT SOLID (PARKING)
21+797.0 TO 21+803.4 LT SOLID (NO PARKING)
21+798.5 TO 21+800.5 RT SOLID (NO PARKING)
21+836.4 TO 21+870.0 LT SOLID
21+840.5 TO 21+870.0 RT SOLID
9+022.3 TO 9+028.3 LT SOLID (PARKING)

TEMPORARY 100 mm YELLOW LINE
DURABLE 100 mm YELLOW LINE, RECESSED POLYUREA

21+735.0 LT TO 21+761.1 CL DOUBLE SOLID
21+763.5 TO 21+829.4 LT & RT SOLID
21+845.0 TO 21+870.0 LT & RT SOLID
9+012.9 TO 9+090.0 LT & RT SOLID

TEMPORARY 600 mm STOP BAR
DURABLE 600 mm STOP BAR, RECESSED POLYUREA
9+012.9 LT

TEMPORARY LETTER OR SYMBOL
DURABLE LETTER OR SYMBOL, RECESSED POLYUREA
21+771.3 RT - HANDICAP SYMBOL
21+797.2 RT - HANDICAP SYMBOL
9+015.1 LT - "STOP"

TEMPORARY CROSSWALK MARKING
DURABLE CROSSWALK MARKING, RECESSED POLYUREA
21+762.3 LT/RT
21+824.5 RT TO 21+835.9 LT
9+009.8 LT TO 9+011.8 RT

9 + 090.000
LIMIT OF WORK

0 10 20 30
SCALE IN METERS

SIGNING & PAVEMENT MARKING 10-2

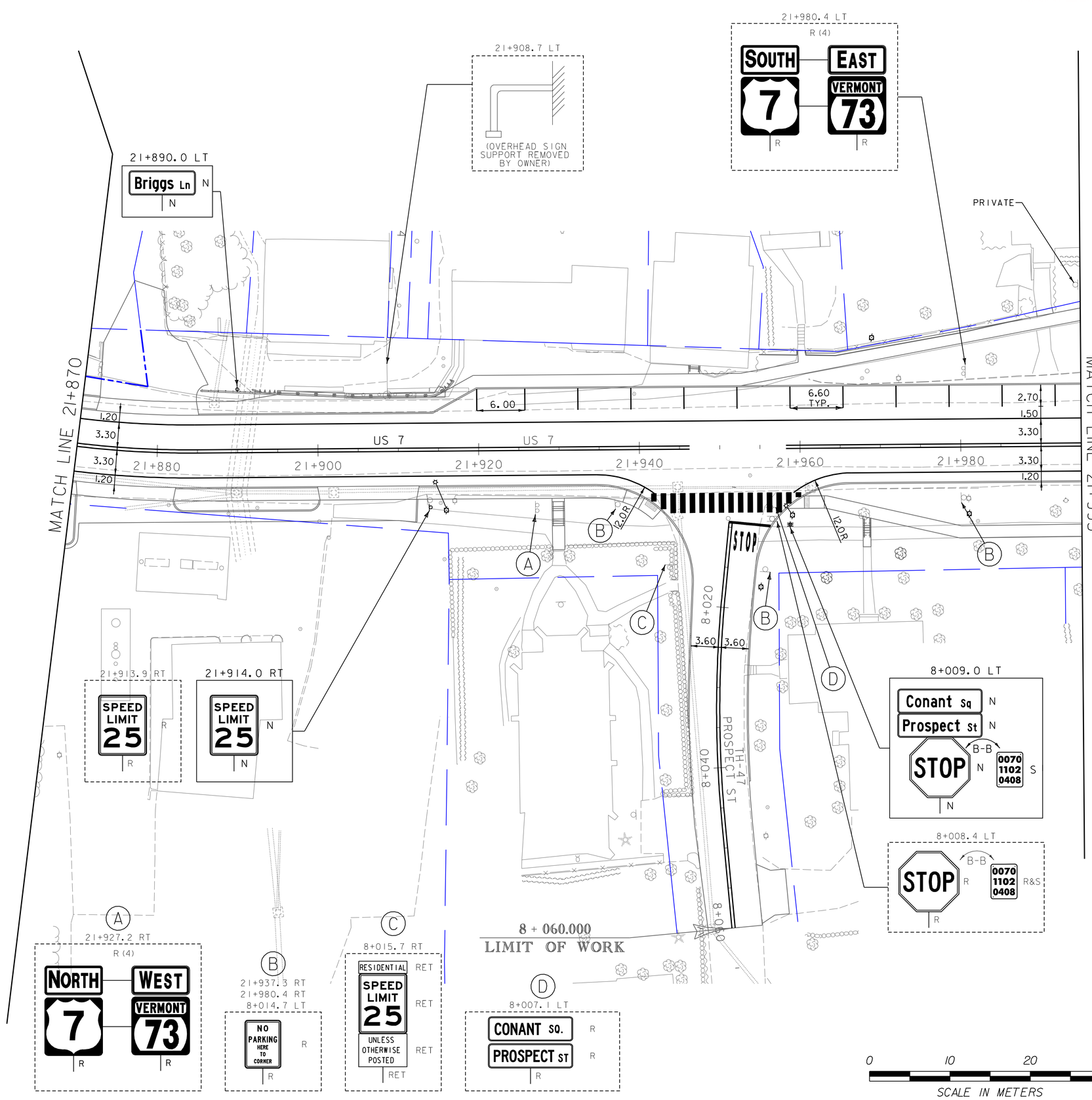
PROJECT NAME: BRANDON
PROJECT NUMBER: NH 019-3(496)

FILE NAME: zb008s6-ts.dgn
PROJECT LEADER: C. BEAN
DESIGNED BY: N. LEMAY
PLOT DATE: 2/23/2017
DRAWN BY: S. GOODWIN
CHECKED BY: D. MUNRO
SHEET 291 OF 601

CLD 02-0448 MODEL: 10-2

ISSUED FOR CONSTRUCTION

VAOT Metric



VT STATE PLANE GRID

N

TEMPORARY 100 mm WHITE LINE
DURABLE 100 mm WHITE LINE, RECESSED POLYUREA
21+870.0 TO 21+941.9 RT SOLID
21+870.0 TO 21+995.0 LT SOLID
21+919.8 TO 21+995.0 LT SOLID (PARKING)
21+959.1 TO 21+995.0 RT SOLID

TEMPORARY 100 mm YELLOW LINE
DURABLE 100 mm YELLOW LINE, RECESSED POLYUREA
21+870.0 TO 21+946.2 LT & RT SOLID
21+958.2 TO 21+995.0 LT & RT SOLID
8+009.3 TO 8+060.0 LT & RT SOLID

TEMPORARY 600 mm STOP BAR
DURABLE 600 mm STOP BAR, RECESSED POLYUREA
8+009.3 LT

TEMPORARY LETTER OR SYMBOL
DURABLE LETTER OR SYMBOL, RECESSED POLYUREA
8+011.5 LT "STOP"

TEMPORARY CROSSWALK MARKING
DURABLE CROSSWALK MARKING, RECESSED POLYUREA
8+006.8 LT TO 8+004.9 RT*

REMOVING SIGNS
AS SHOWN - 16

ERECTING SALVAGED SIGNS
AS SHOWN - 1

*SEE BLOCK PATTERN CROSSWALK DETAIL ON MISCELLANEOUS DETAILS SHEET

SIGN LEGEND

R	=	REMOVE
S	=	SALVAGE
N	=	NEW
RET	=	RETAIN
T&T	=	THINNING & TRIMMING
B-B	=	BACK TO BACK
EXISTING	=	----------
NEW	=	————

SIGNING & PAVEMENT MARKING II

PROJECT NAME: BRANDON
PROJECT NUMBER: NH 019-3(496)

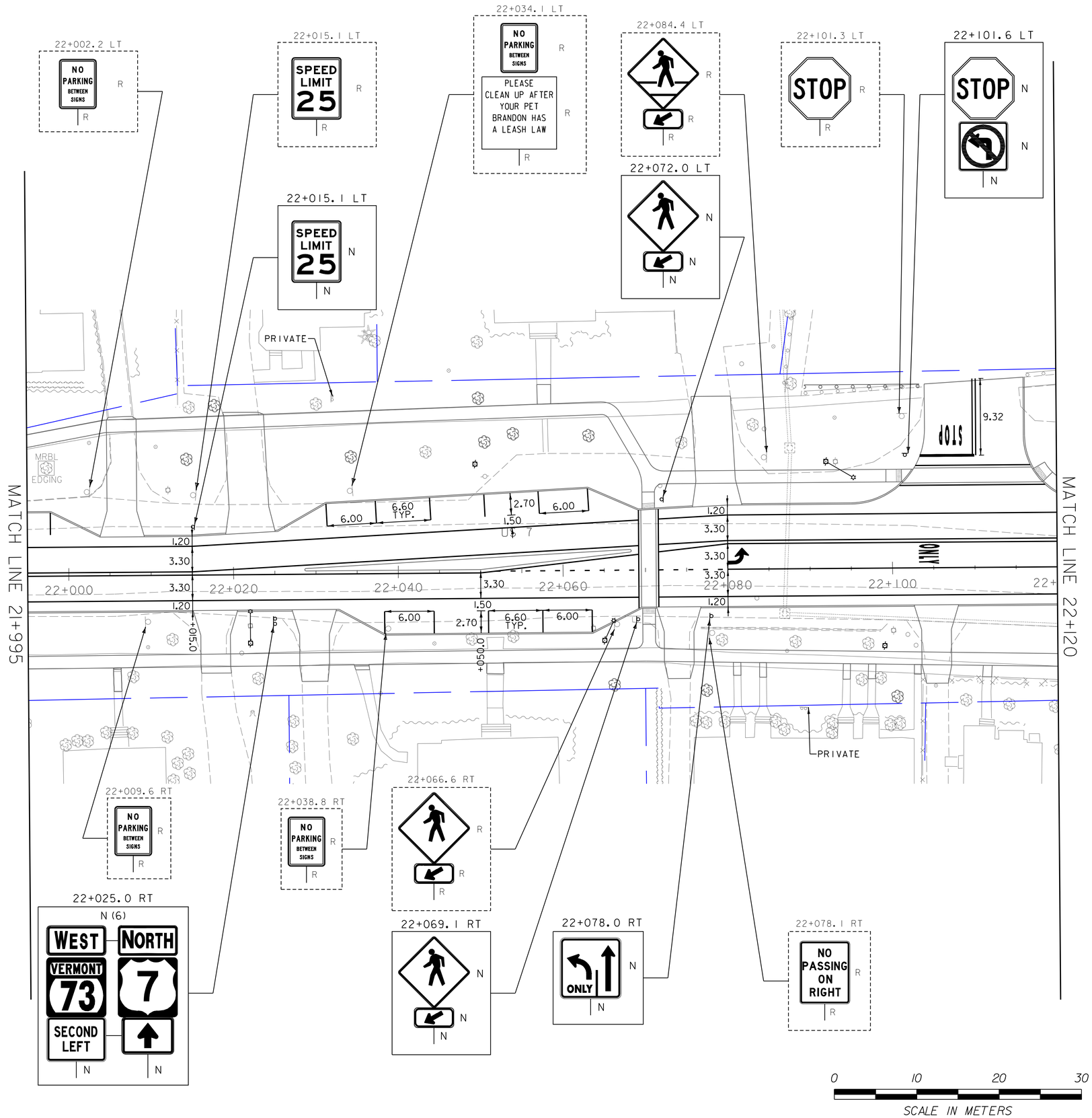
FILE NAME: zb008s6-ts.dgn
PROJECT LEADER: C. BEAN
DESIGNED BY: N. LEMAY

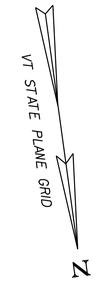
PLOT DATE: 2/23/2017
DRAWN BY: S. GOODWIN
CHECKED BY: D. MUNRO
SHEET 292 OF 601

CLD 02-0448 MODEL: II

ISSUED FOR CONSTRUCTION

VAOT Metric





TEMPORARY 100 mm WHITE LINE
DURABLE 100 mm WHITE LINE, RECESSED POLYUREA
21+995.0 TO 21+997.8 LT SOLID (PARKING)
21+995.0 TO 22+069.2 LT & RT SOLID
22+031.4 TO 22+063.2 LT SOLID (PARKING)
22+038.3 TO 22+063.5 RT SOLID (PARKING)
22+050.0 TO 22+069.2 C/L DOTTED (LANE LINE)
22+071.6 TO 22+080.0 C/L DOTTED (LANE LINE)
22+071.6 TO 22+120.0 LT & RT SOLID
22+080.0 TO 22+120.0 C/L SOLID (LANE LINE)

TEMPORARY 100 mm YELLOW LINE
DURABLE 100 mm YELLOW LINE, RECESSED POLYUREA
21+995.0 TO 22+015.0 LT & RT SOLID
22+015.0 TO 22+050.0 RT SOLID
22+015.0 TO 22+069.2 LT SOLID
22+050.0 RT TO 22+069.2 LT SOLID
22+071.6 TO 22+080.0 LT SOLID
22+071.6 TO 22+080.0 LT SOLID
22+080.0 TO 22+120.0 LT DOUBLE SOLID
22+110.0 LT DOUBLE SOLID (DRIVE)

TEMPORARY 600 mm STOP BAR
DURABLE 600 mm STOP BAR, RECESSED POLYUREA
22+103.4 TO 22+110.0 LT

DURABLE LETTER OR SYMBOL, RECESSED POLYUREA
22+081.3 LT LEFT TURN ARROW
22+104.5 LT "ONLY"
22+107.3 LT "STOP"

TEMPORARY LETTER OR SYMBOL
22+081.3 LT LEFT TURN ARROW
22+107.3 LT "STOP"

TEMPORARY CROSSWALK MARKING
DURABLE CROSSWALK MARKING, RECESSED POLYUREA
22+070.4 LT/RT
22+101.2 TO 22+118.3 LT

REMOVING SIGNS
AS SHOWN - 12

SPECIAL PROVISION (SOIL BEARING SLIP BASE) (2 1/2")
22+101.6 LT (1)

SIGN LEGEND

R	=	REMOVE
S	=	SALVAGE
N	=	NEW
RET	=	RETAIN
T&T	=	THINNING & TRIMMING
B-B	=	BACK TO BACK
EXISTING	=	----------
NEW	=	————

0 10 20 30
SCALE IN METERS

SIGNING & PAVEMENT MARKING 12

PROJECT NAME: BRANDON
PROJECT NUMBER: NH 019-3(496)

FILE NAME: zb008s6-ts.dgn
PROJECT LEADER: C. BEAN
DESIGNED BY: N. LEMAY
PLOT DATE: 2/23/2017
DRAWN BY: S. GOODWIN
CHECKED BY: D. MUNRO
SHEET 293 OF 601

CLD 02-0448 MODEL: 12

ISSUED FOR CONSTRUCTION

VAOT Metric

22+165.2 LT
CONANT SQ. R
CHAMPLAIN ST R
R

22+123.3 LT
B-B
ACTR BUS STOP R
NO PARKING AFTER 10 PM R
R (RETURN TO OWNER)

SEE PLAN 13A

VT STATE PLANE GRID
N

SURV. MARKER

PEARL ST

19+080
19+060
19+040
19+020

STOP

19+081.4 RT
YIELD R
R

SEE PLAN 13A

MATCH LINE 22+120

22+120
22+140
22+160
22+180
22+200
22+220

US 7

VT 73

18+060
18+040
18+020

STOP

PRIVATE

MATCH LINE 22+235

A
22+147.7 LT
R (6)
SOUTH 7 R
EAST VERMONT 73 R

B
22+169.7 LT
22+226.6 LT
18+017.8 LT
18+038.9 RT
19+020.3 LT
STOP R

C
22+228.2 LT
R (9)
SOUTH 7
EAST VERMONT 73
WEST VERMONT 73
R

D
22+190.6 LT
R (6)
WEST VERMONT 73
NORTH 7
0070 1102 0420 R&S
R

E
18+050.1 RT
WEST 73 R
SPEED LIMIT 25 R
R

F
22+195.9 RT
R
B-B
R

G
19+018.8 LT
CONANT SQ. R
PEARL ST R
R

H
22+229.2 LT
GROVE ST R
R

I
22+223.1 LT
R
B-B
R
TIC R&S

J
22+220.9 LT
YIELD TO R
R

SIGN LEGEND

R	=	REMOVE
S	=	SALVAGE
N	=	NEW
RET	=	RETAIN
T&T	=	THINNING & TRIMMING
B-B	=	BACK TO BACK
EXISTING		----------
NEW		————

REMOVING SIGNS
AS SHOWN - 43

0 10 20 30
SCALE IN METERS

SIGNING & PAVEMENT MARKING 13-1

PROJECT NAME: BRANDON
PROJECT NUMBER: NH 019-3(496)

FILE NAME: zb008s6-ts.dgn
PROJECT LEADER: C. BEAN
DESIGNED BY: N. LEMAY
PLOT DATE: 2/23/2017
DRAWN BY: S. GOODWIN
CHECKED BY: D. MUNRO
SHEET 294 OF 601

CLD 02-0448 MODEL: 13-1

ISSUED FOR CONSTRUCTION

VAOT Metric

SEE PLAN 13A

19+014.1 LT
Conant Sq N
Pearl St N
STOP N

19+066.0 RT
SPEED LIMIT 25 N

A
22+122.6 LT
N (4)
SOUTH 7 N | EAST VERMONT 73 N

B
22+208.0 RT
22+211.0 LT
N

C
22+210.2 LT
WEST VERMONT 73 N

VT STATE PLANE GRID
N

D
22+196.0 RT
N (9)
NORTH 7 N | SOUTH 7 N | EAST VERMONT 73 N
INSTALL 1m BEHIND SIDEWALK

E
22+229.8 LT
N (9)
SOUTH 7 N | EAST VERMONT 73 N | WEST VERMONT 73 N

18+019.9 LT
STOP N
B-B
0070 N
1102 S
0420

18+018.4 LT
Grove St N
Champlain St N

18+060.0 RT
WEST VERMONT 73 N

22+147.0 RT
ONLY N

22+147.0 RT
WEST VERMONT 73 N

MATCH LINE 22+120

MATCH LINE 22+235

PEARL ST

US 7

VT 73

19+080
19+060
19+040
19+020
18+060
18+040
22+140
22+160
22+180
22+200
22+220

0.90 3.30 3.30 0.90
20.0R
30.0R
10.2R
28.0R
9.9R
+215.0
1.20 3.30 3.30 3.30 1.20

STOP

TEMPORARY 100 mm YELLOW LINE
DURABLE 100 mm YELLOW LINE, RECESSED POLYUREA
22+120.0 TO 22+130.8 LT DOUBLE SOLID
22+145.0 TO 22+185.0 LT DOUBLE SOLID
22+202.8 TO 22+206.0 LT & RT SOLID
22+208.4 TO 22+221.0 LT & RT SOLID
22+221.0 TO 22+235.0 LT & RT DOUBLE SOLID
18+019.9 TO 18+065.0 LT & RT SOLID
19+013.3 TO 19+085.0 LT & RT SOLID

DURABLE 200 mm YELLOW LINE, RECESSED POLYUREA
22+221.0 TO 22+235.0 LT (DIAGONAL LINES-ISLAND)

TEMPORARY 600 mm STOP BAR
DURABLE 600 mm STOP BAR, RECESSED POLYUREA
18+019.9 LT
19+013.3 LT

DURABLE LETTER OR SYMBOL, RECESSED POLYUREA
22+128.5 LT - LEFT TURN ARROW
22+146.3 LT - LEFT TURN ARROW
22+165.0 LT - "ONLY"
22+183.5 LT - LEFT TURN ARROW
18+022.3 LT - "STOP"
19+015.8 LT - "STOP"

TEMPORARY LETTER OR SYMBOL
22+128.5 LT - LEFT TURN ARROW
22+146.3 LT - LEFT TURN ARROW
22+183.5 LT - LEFT TURN ARROW
18+022.3 LT - "STOP"
19+015.8 LT - "STOP"

TEMPORARY CROSSWALK MARKING
DURABLE CROSSWALK MARKING, RECESSED POLYUREA
22+207.2 RT TO 22+208.3 LT
18+015.8 LT TO 18+023.0 RT
18+022.7 TO 18+028.9 LT*
19+009.7 LT TO 19+012.6 RT
*SEE BLOCK PATTERN CROSSWALK DETAIL ON MISCELLANEOUS DETAILS SHEET

ERECTING SALVAGED SIGNS
AS SHOWN - 1

TEMPORARY 100 mm WHITE LINE
DURABLE 100 mm WHITE LINE, RECESSED POLYUREA
22+120.0 TO 22+132.2 LT SOLID
22+120.0 TO 22+206.0 RT SOLID
22+120.0 TO 22+130.8 C/L SOLID (LANE LINE)
22+145.0 TO 22+190.0 C/L SOLID (LANE LINE)
22+149.0 TO 22+190.8 LT SOLID
22+202.6 TO 22+206.1 LT
22+208.4 TO 22+235.0 LT & RT SOLID
18+017.4 TO 18+065.0 LT SOLID
18+021.2 TO 18+065.0 RT SOLID
19+011.1 TO 19+085.0 LT SOLID
19+013.5 TO 19+085.0 RT SOLID

SIGN LEGEND

R	=	REMOVE
S	=	SALVAGE
N	=	NEW
RET	=	RETAIN
T&T	=	THINNING & TRIMMING
B-B	=	BACK TO BACK
EXISTING	=	----------
NEW	=	————

0 10 20 30
SCALE IN METERS

SIGNING & PAVEMENT MARKING 13-2

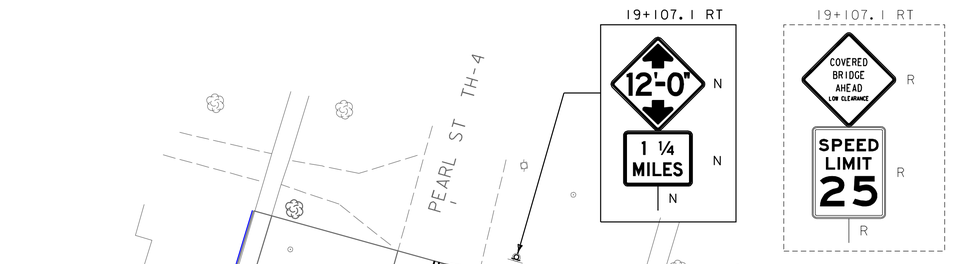
PROJECT NAME: BRANDON
PROJECT NUMBER: NH 019-3(496)

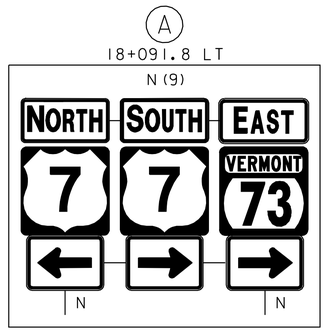
FILE NAME: zb008s6-ts.dgn
PROJECT LEADER: C. BEAN
DESIGNED BY: N. LEMAY
PLOT DATE: 2/23/2017
DRAWN BY: S. GOODWIN
CHECKED BY: D. MUNRO
SHEET 295 OF 601

CLD 02-0448 MODEL: 13-2

ISSUED FOR CONSTRUCTION

VAOT Metric





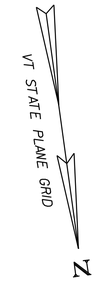
TEMPORARY 100 mm WHITE LINE
DURABLE 100 mm WHITE LINE, RECESSED POLYUREA
18+065.0 TO 18+080.0 LT & RT SOLID
19+085.0 TO 19+095.0 LT & RT SOLID

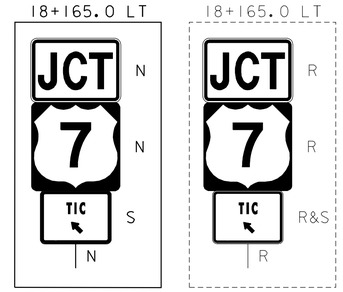
TEMPORARY 100 mm YELLOW LINE
DURABLE 100 mm YELLOW LINE, RECESSED POLYUREA
18+065.0 TO 18+103.0 LT & RT SOLID
19+085.0 TO 19+105.0 LT & RT SOLID

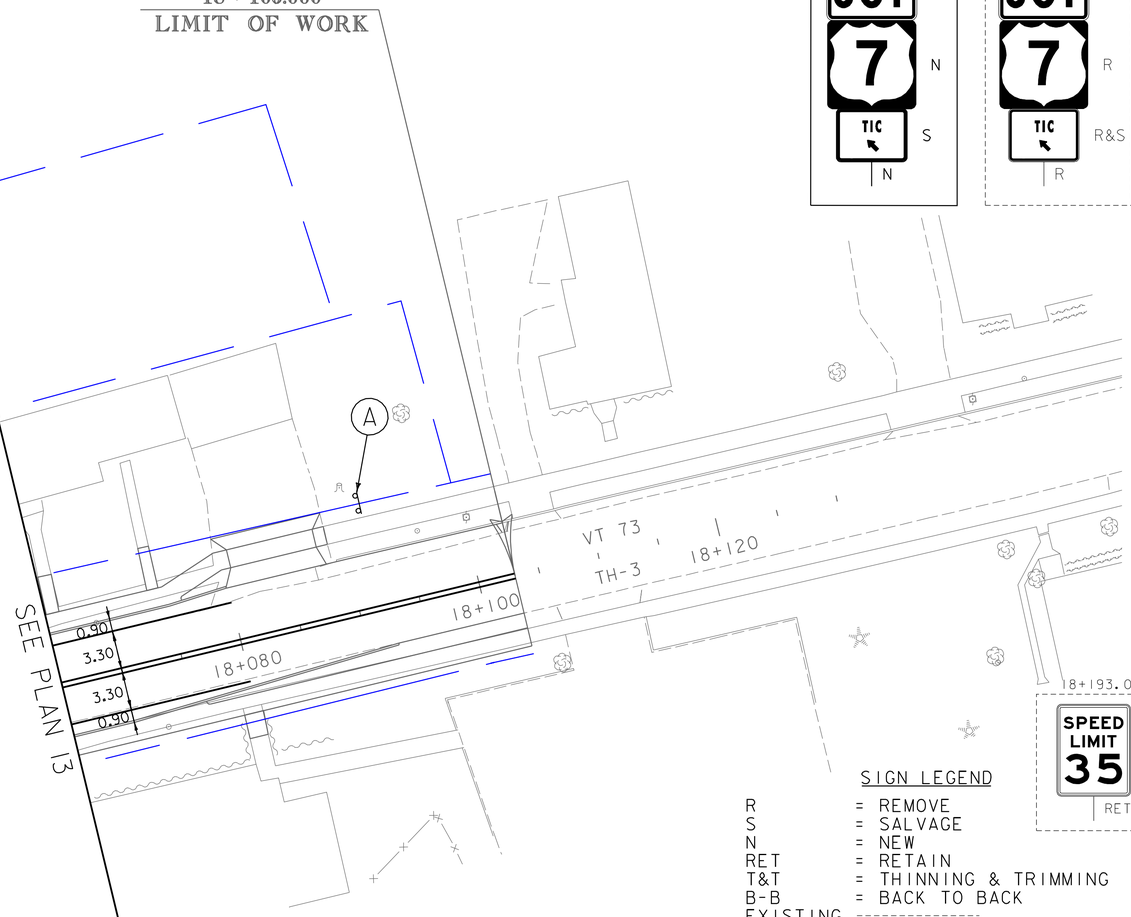
REMOVING SIGNS
AS SHOWN - 5

ERECTING SALVAGED SIGNS
AS SHOWN - 1

SPECIAL PROVISION (SOIL BEARING SLIP BASE) (2 1/2")
19+107.1 RT







SIGN LEGEND

R	=	REMOVE
S	=	SALVAGE
N	=	NEW
RET	=	RETAIN
T&T	=	THINNING & TRIMMING
B-B	=	BACK TO BACK
EXISTING		----------
NEW		————

0 10 20 30
SCALE IN METERS

SIGNING & PAVEMENT MARKING 13A

PROJECT NAME: BRANDON
PROJECT NUMBER: NH 019-3(496)

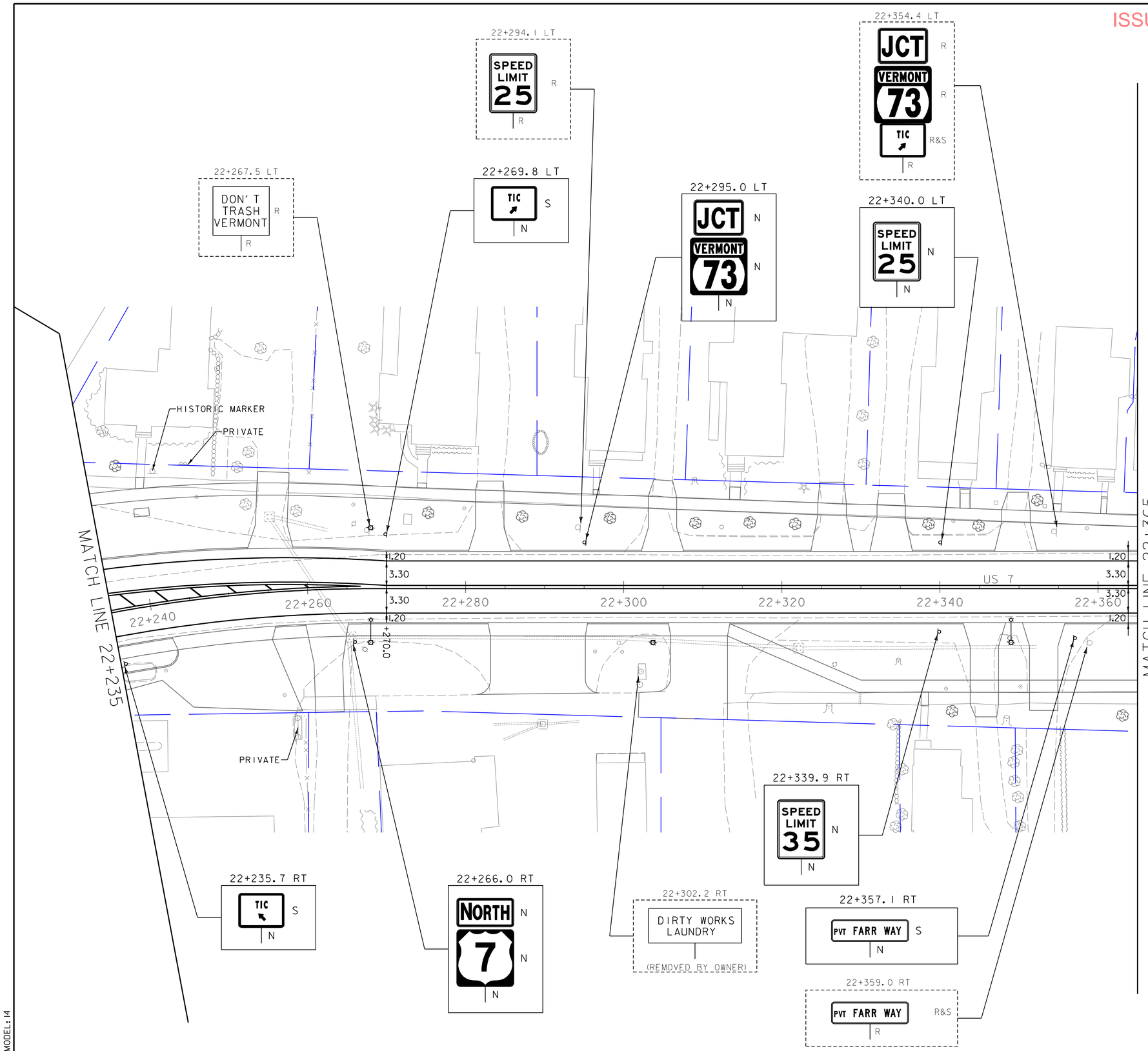
FILE NAME: zb008s6-ts.dgn
PROJECT LEADER: C. BEAN
DESIGNED BY: N. LEMAY

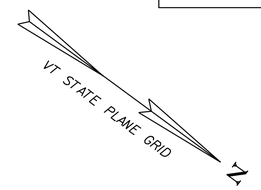
PLOT DATE: 2/23/2017
DRAWN BY: S. GOODWIN
CHECKED BY: D. MUNRO
SHEET 296 OF 601

CLD 02-0448 MODEL: 13A

ISSUED FOR CONSTRUCTION

VAOT Metric





TEMPORARY 100 mm WHITE LINE
DURABLE 100 mm WHITE LINE, RECESSED POLYUREA
22+235.0 TO 22+365.0 LT & RT SOLID

TEMPORARY 100 mm YELLOW LINE
DURABLE 100 mm YELLOW LINE, RECESSED POLYUREA
22+235.0 TO 22+270.0 LT & RT DOUBLE SOLID
22+270.0 TO 22+365.0 LT & RT SOLID

DURABLE 200 mm YELLOW LINE, RECESSED POLYUREA
22+235.0 TO 22+270.0 LT SOLID (DIAGONAL LINES-ISLAND)

REMOVING SIGNS
AS SHOWN - 6

ERECTING SALVAGED SIGNS
AS SHOWN - 3

SIGN LEGEND

R	=	REMOVE
S	=	SALVAGE
N	=	NEW
RET	=	RETAIN
T&T	=	THINNING & TRIMMING
B-B	=	BACK TO BACK
EXISTING	=	----------
NEW	=	————

0 10 20 30
SCALE IN METERS

SIGNING & PAVEMENT MARKING 14

PROJECT NAME: BRANDON
PROJECT NUMBER: NH 019-3(496)

FILE NAME: zb0008s6-ts.dgn
PROJECT LEADER: C. BEAN
DESIGNED BY: N. LEMAY
PLOT DATE: 2/23/2017
DRAWN BY: S. GOODWIN
CHECKED BY: D. MUNRO
SHEET 297 OF 601

CLD 02-0448 MODEL: 14

ISSUED FOR CONSTRUCTION

VAOT Metric

MATCH LINE 22+365

MATCH LINE 22+520

US 7

22+380 22+400 22+420 22+440 22+460 22+480 22+500

1.20 3.30 3.30 1.20 3.30 3.30 3.30 1.20

490.0

+515.0

6.0

VT STATE PLANE GRID N

22+473.0 LT

R

NEXT 3/4 MILE

R

R

22+509.4 LT

THANK YOU

(REMOVED BY OWNER)

22+507.8 LT

DO NOT ENTER

RET

RET

22+413.8 RT

THE GAZEBO INN BED & BREAKFAST

(SIGN AND PLANTER REMOVED BY OWNER)

22+515.0 RT

ONLY

N

N

TEMPORARY 100 mm WHITE LINE
DURABLE 100 mm WHITE LINE, RECESSED POLYUREA
22+365.0 TO 22+520.0 LT & RT SOLID
22+490.0 TO 22+515.0 RT DOTTED (LANE LINE)
22+502.4 LT SOLID (LANE LINE-DRIVE)
22+515.0 TO 22+520.0 RT SOLID (LANE LINE)

TEMPORARY 100 mm YELLOW LINE
DURABLE 100 mm YELLOW LINE, RECESSED POLYUREA
22+365.0 TO 22+400.0 LT & RT SOLID
22+400.0 TO 22+490.0 LT & RT DOUBLE SOLID
22+490.0 RT TO 22+515.0 LT DOUBLE SOLID
22+490.0 TO 22+520.0 LT DOUBLE SOLID

DURABLE 200 mm YELLOW LINE, RECESSED POLYUREA
22+400.0 C/L TO 22+515.0 LT (DIAGONAL LINES-ISLAND)

TEMPORARY LETTER OR SYMBOL
DURABLE LETTER OR SYMBOL, RECESSED POLYUREA
22+500.8 LT - RIGHT TURN ARROW
22+503.7 LT - LEFT TURN ARROW
22+516.3 C/L - LEFT TURN ARROW

REMOVING SIGNS
AS SHOWN - 2

SIGN LEGEND

R	=	REMOVE
S	=	SALVAGE
N	=	NEW
RET	=	RETAIN
T&T	=	THINNING & TRIMMING
B-B	=	BACK TO BACK
EXISTING		----------
NEW		————

0 10 20 30

SCALE IN METERS

SIGNING & PAVEMENT MARKING 15

PROJECT NAME: BRANDON
PROJECT NUMBER: NH 019-3(496)

FILE NAME: zb008s6-ts.dgn
PROJECT LEADER: C. BEAN
DESIGNED BY: N. LEMAY

PLOT DATE: 2/23/2017
DRAWN BY: S. GOODWIN
CHECKED BY: D. MUNRO
SHEET 298 OF 601

CLD 02-0448 MODEL:15

ISSUED FOR CONSTRUCTION

VAOT Metric

22+527.1 LT
(REMOVED BY OWNER)

22+532.9 LT
SPEED LIMIT 35 N
N

22+532.9 LT
SPEED LIMIT 35 R
PLEASE DO NOT USE ENGINE BREAKS IN VILLAGE LIMITS
R

22+550.4 LT
DRIVE THRU
(REMOVED BY OWNER)

22+571.3 LT
BRANDON AUTO SALES
(REMOVED BY OWNER)

VT STATE PLANE GRID
N

22+680.0 LT
TIC
TIC
TIC
RET

22 + 630.000
END PROJECT
NH 019-3(496)
BEGIN APPROACH

22 + 680.000
END APPROACH

MATCH LINE 22+520

1.20
3.30
1.65
1.65
3.30
1.20

1.20
3.30
1.46
1.65
3.30
1.20

1.20
3.60
3.60
2.40

520 22+540 22+560 22+580 22+600 22+620 22+640 22+660 22+680 22+700

US 7

+550.0 BEGIN ISLAND TAPER

+560.0 BEGIN SHOULDER & LANE TAPER

+620.0 END LANE & SHOULDER TAPER

22+555.2 RT
SPEED LIMIT 40 N
N

22+555.2 RT
SPEED LIMIT 40 R
R

TEMPORARY 100 mm WHITE LINE
DURABLE 100 mm WHITE LINE, RECESSED POLYUREA
22+520.0 TO 22+540.0 RT SOLID (LANE LINE)
22+520.0 TO 22+680.0 LT & RT SOLID

TEMPORARY 100 mm YELLOW LINE
DURABLE 100 mm YELLOW LINE, RECESSED POLYUREA
22+520.0 TO 22+540.0 LT DOUBLE SOLID
22+560.0 TO 22+620.0 LT & RT DOUBLE SOLID
22+620.0 TO 22+680.0 LT & RT SOLID

DURABLE 200 mm YELLOW LINE, RECESSED POLYUREA
22+560.0 TO 22+620.0 C/L (DIAGONAL LINES-ISLAND)

TEMPORARY LETTER OR SYMBOL
DURABLE LETTER OR SYMBOL, RECESSED POLYUREA
22+538.4 C/L - LEFT TURN ARROW

REMOVING SIGNS
AS SHOWN - 3

SIGN LEGEND

R	=	REMOVE
S	=	SALVAGE
N	=	NEW
RET	=	RETAIN
T&T	=	THINNING & TRIMMING
B-B	=	BACK TO BACK
EXISTING	=	----------
NEW	=	————

0 10 20 30
SCALE IN METERS

SIGNING & PAVEMENT MARKING 16

PROJECT NAME: BRANDON
PROJECT NUMBER: NH 019-3(496)

FILE NAME: zb008s6-ts.dgn
PROJECT LEADER: C. BEAN
DESIGNED BY: N. LEMAY
PLOT DATE: 2/23/2017
DRAWN BY: S. GOODWIN
CHECKED BY: D. MUNRO
SHEET 299 OF 601

CLD 02-0448 MODEL: 16

TRAFFIC SIGN SUMMARY SHEET 1

ISSUED FOR CONSTRUCTION

Metric

STATION	SIGN LEGEND	SIGN DIMENSIONS EA	WIDTH (mm)	HEIGHT (mm)	NEW & SALVAGED SIGNS "A"	"B"	SALV SIGN	SALV TIS	EXIST POST RETAIN	EXIST POST SALVAGE	NEW SIGN POSTS NO. OF POSTS	SQUARE STEEL (mm) 44 kg/m 2.8	50 kg/m 3.6	63 kg/m 5.0	ANCHOR	SLEEVE	TUBULAR DIA (mm) 75 kg/m 1.9	100 kg/m 2.5	100MD kg/m 2.5	TUBULAR STEEL DIA (mm) FND-ATION	75 kg/m 11.3	90 kg/m 13.6	100 kg/m 16.1	125 kg/m 21.8	W-SHAPE STEEL FTG. SIZE 600 mm	750 mm	MASS	POST SIZE	SIGN	FRAME	REMARKS	SIGN DETAIL SEE MISC. SIGN DETAILS SHEET	STD. SHEET NUMBER (OR SHS)
US 7 20+882.8 RT	Franklin St	1	1050	300	0.32																										TO BE INSTALLED USING TOP MOUNTING BRACKET.	X	
	High St	1	900	300	0.27																										TO BE INSTALLED USING TOP MOUNTING BRACKET	X	
		1					1				1		X		X																		
20+898.5 LT		1	750	750	0.56																										W11-2 FYG SHEETING		SHS
		1	600	300	0.18						1		X		X																W16-7p FYG SHEETING		SHS
20+902.0 RT		1	750	750	0.56																										W11-2 FYG SHEETING		SHS
		1	600	300	0.18						1		X		X																W16-7p FYG SHEETING		SHS
20+950.0 LT		1	750	750	0.56																										W11-8		SHS
20+993.8 LT	SPEED LIMIT 35	1	600	750	0.45						1		X		X																R2-1		SHS
20+993.8 RT	SPEED LIMIT 25	1	600	750	0.45						1		X		X																R2-1		SHS
21+130.0 LT	HIDDEN DRIVE RIGHT	1	750	750	0.56						1		X		X																VW-133R		T-81
21+318.3 RT	SPEED LIMIT 25	1	600	750	0.45						1		X		X																R2-1		SHS
21+376.0 RT	JCT	1	525	375	0.20																										M2-1 GREEN ON WHITE		SHS
	VERMONT 73	1	600	600	0.36						1		X		X																VM1-5 GREEN ON WHITE		E-136B
21+397.9 LT	SPEED LIMIT 25	1	600	750	0.45						1		X		X																R2-1		SHS
21+420.0 RT	P ARKING	1	750	600	0.45						1		X		X																D4-1		SHS

FINAL POST LENGTHS ARE TO BE DETERMINED IN THE FIELD. POST SIZES ARE COMPUTED BASED ON INFORMATION FURNISHED ON THE STANDARD SHEETS AND THE ROADWAY TRAFFIC AND SAFETY SECTION'S "SIGN POST DESIGN GUIDELINE". ALL SIGN INSTALLATIONS ADJACENT TO SIDEWALKS OR AREAS WITH PEDESTRIAN ACCESS SHALL PROVIDE A MINIMUM OF 2.1m CLEAR HEIGHT FROM THE BOTTOM OF THE LOWEST SIGN TO THE GROUND OR AS DIRECTED BY THE ENGINEER.

											m 0.0	m 0.0	m 0.0	m 0.0	m 42.9	m 0.0		EA. 0	kg 0.0	kg 0.0	kg 0.0		kg 0.0	kg 0.0	kg 0.0	kg 0.0								
SUBTOTALS SHEET 1		m2 6.00	m2 0.00	EA. 1	m2 0.00		m 0.0		m 42.9		kg 0.0		EA. 0	kg 0.0				EA. 0	EA. 0	kg 0														

PROJECT NAME: **BRANDON**

PROJECT NUMBER: **NH 019-3(496)**

FILE NAME: **zb008s6-tsss.xls**
PROJECT LEADER: **C. BEAN**
DESIGNED BY: **S. GOODWIN**
TRAFFIC SIGN SUMMARY SHEET # 1

PLOT 2/23/2017
DRAWN BY: **R. SHEDD**
CHECKED **P. MCKECHNIE**
SHEET 300 OF 601

TRAFFIC SIGN SUMMARY SHEET 2

ISSUED FOR CONSTRUCTION

Metric

STATION	SIGN LEGEND	SIGN DIMENSIONS EA	WIDTH (mm)	HEIGHT (mm)	NEW & SALVAGED SIGNS "A"	"B"	SALV SIGN	SALV TIS	EXIST POST RETAIN	EXIST POST SALVAGE	NEW SIGN POSTS NO. OF POSTS	SQUARE STEEL (mm) 44 kg/m 2.8	50 3.6	63 5.0	ANCHOR	SLEEVE	TUBULAR DIA (mm) 75 kg/m 1.9	100 2.5	100MD 2.5	TUBULAR STEEL DIA (mm) FND-ATION	75 kg/m 11.3	90 13.6	100 16.1	125 21.8	W-SHAPE STEEL FTG. SIZE 600 mm	750 mm	MASS	POST SIZE	SIGN	FRAME	REMARKS	SIGN DETAIL SEE MISC. SIGN DETAILS SHEET	STD. SHEET NUMBER (OR SHS)
US 7 21+420.0 RT	TIC	1					1				1		X		X																	FYG = FLUORESCENT YELLOW GREEN SHS = FHWA 2004 STANDARD HIGHWAY SIGNS AND MARKING BOOK AND THE 2012 SUPPLEMENT TO THE 2004 EDITION		
21+440.0 LT	SOUTH	1	600	300	0.18																										M3-3 BLACK ON WHITE		SHS
	7	1	600	600	0.36						1		X		X																M1-4 BLACK ON WHITE		SHS
21+450.1 RT	NORTH	1	600	300	0.18																										M3-1 BLACK ON WHITE		SHS
	7	1	600	600	0.36																										M1-4 BLACK ON WHITE		SHS
		1	525	375	0.20																										M6-3 BLACK ON WHITE		SHS
	WEST	1	600	300	0.18																										M3-4 GREEN ON WHITE		SHS
	EAST	1	600	300	0.18																										M3-2 GREEN ON WHITE		SHS
	VERMONT 73	1	600	600	0.36																										VM1-5 GREEN ON WHITE		E-136B
	VERMONT 73	1	600	600	0.36																										VM1-5 GREEN ON WHITE		E-136B
		1	525	375	0.20						1									1		63.3							#2A		M6-3 GREEN ON WHITE		SHS
		1	525	375	0.20																										M6-1 GREEN ON WHITE		SHS
21+474.4 LT	EXIT ONLY	1	600	600	0.36						1		X		X																		X	
21+486.1 LT	WHITTAKER REAL ESTATE	1					1		2																									
21+489.2 LT	SOUTH	1	600	300	0.18																										M3-3 BLACK ON WHITE		SHS
	NORTH	1	600	300	0.18																										M3-1 BLACK ON WHITE		SHS
	WEST	1	600	300	0.18																										M3-4 GREEN ON WHITE		SHS
	7	1	600	600	0.36																										M1-4 BLACK ON WHITE		SHS
	7	1	600	600	0.36																										M1-4 BLACK ON WHITE		SHS
	VERMONT 73	1	600	600	0.36																										VM1-5 GREEN ON WHITE		E-136B
		1	525	375	0.20																										M6-1 BLACK ON WHITE		SHS
		1	525	375	0.20						2				X		X													#3A	M6-1 BLACK ON WHITE		SHS
		1	525	375	0.20																										M6-1 GREEN ON WHITE		SHS
21+490.3 LT	EAST	1	600	300	0.18																										M3-2 GREEN ON WHITE		SHS
	SOUTH	1	600	300	0.18																										M3-3 BLACK ON WHITE		SHS
	VERMONT 73	1	600	600	0.36																										VM1-5 GREEN ON WHITE		E-136B
	7	1	600	600	0.36																										M1-4 BLACK ON WHITE		SHS
		1	525	375	0.20						2		X		X															#2A	M6-1 GREEN ON WHITE		SHS
		1	525	375	0.20																										M6-3 BLACK ON WHITE		SHS
												m 0.0	m 0.0	m 0.0	m 0.0	m 21.6	m 9.3		EA. 0	kg 0.0	kg 0.0	kg 0.0		kg 0.0	kg 63.3	kg 0.0	kg 0.0						
	SUBTOTALS SHEET 2	m2 6.82	m2 0.00	EA. 2	m2 0.00							m 0.0				m 30.9				kg 0.0				EA. 1	kg 63.3			EA. 0	EA. 0	kg 0				

FINAL POST LENGTHS ARE TO BE DETERMINED IN THE FIELD. POST SIZES ARE COMPUTED BASED ON INFORMATION FURNISHED ON THE STANDARD SHEETS AND THE ROADWAY TRAFFIC AND SAFETY SECTION'S "SIGN POST DESIGN GUIDELINE". ALL SIGN INSTALLATIONS ADJACENT TO SIDEWALKS OR AREAS WITH PEDESTRIAN ACCESS SHALL PROVIDE A MINIMUM OF 2.1m CLEAR HEIGHT FROM THE BOTTOM OF THE LOWEST SIGN TO THE GROUND OR AS DIRECTED BY THE ENGINEER.

PROJECT NAME: **BRANDON**
PROJECT NUMBER: **NH 019-3(496)**

FILE NAME: **zb008s6-tsss.xls**
PROJECT LEADER: **C. BEAN**
DESIGNED BY: **S. GOODWIN**
TRAFFIC SIGN SUMMARY SHEET # 2

PLOT 2/23/2017
DRAWN BY: **R. SHEDD**
CHECKED **P. MCKECHNIE**
SHEET 301 OF 601

TRAFFIC SIGN SUMMARY SHEET 3

ISSUED FOR CONSTRUCTION

Metric

STATION	SIGN LEGEND	SIGN DIMENSIONS EA	WIDTH (mm)	HEIGHT (mm)	NEW & SALVAGED SIGNS "A"	"B"	SALV SIGN	SALV TIS	EXIST POST RETAIN	EXIST POST SALVAGE	NEW SIGN POSTS NO. OF POSTS	SQUARE STEEL (mm) 44 kg/m 2.8	50 kg/m 3.6	63 kg/m 5.0	ANCHOR	SLEEVE	TUBULAR DIA (mm) 75 kg/m 1.9	100 kg/m 2.5	100MD kg/m 2.5	TUBULAR STEEL DIA (mm) FND-ATION	75 kg/m 11.3	90 kg/m 13.6	100 kg/m 16.1	125 kg/m 21.8	W-SHAPE STEEL FTG. SIZE 600 mm	750 mm	MASS	POST SIZE	SIGN FRAME	REMARKS FYG = FLUORESCENT YELLOW GREEN SHS = FHWA 2004 STANDARD HIGHWAY SIGNS AND MARKING BOOK AND THE 2012 SUPPLEMENT TO THE 2004 EDITION	SIGN DETAIL SEE MISC. SIGN DETAILS SHEET	STD. SHEET NUMBER (OR SHS)
US 7 21+510.0 LT		1	750	750	0.56						1		X		X															VR-921		E-145A
21+533.8 LT		1	750	750	0.56						1		X		X															W3-3		SHS
21+539.6 RT		1	750	750	0.56						1		X		X															VR-921		E-145A
21+552.9 LT		1 1	600 600	300 300	0.18 0.18																									M3-2 GREEN ON WHITE M3-3 BLACK ON WHITE		SHS SHS
		1 1	600 600	600 600	0.36 0.36																									VM1-5 GREEN ON WHITE M1-4 BLACK ON WHITE		E-136B SHS
		1 1	525 525	375 375	0.20 0.20						2		X		X													#2A		M6-1 GREEN ON WHITE M6-3 BLACK ON WHITE		SHS SHS
21+619.4 RT		1	750	600	0.45						1		X		X															D4-1		SHS
21+640.0 RT		1	750	750	0.56																									W11-2 MOUNT ON LIGHT POLE WITH STAINLESS STEEL BANDS. PROVIDE WORKING DRAWING DEPICTING ATTACHMENT METHOD. FYG SHEETING		SHS
		1	600	300	0.18																									W16-7p MOUNT ON LIGHT POLE WITH STAINLESS STEEL BANDS. PROVIDE WORKING DRAWING DEPICTING ATTACHMENT METHOD. FYG SHEETING		SHS
21+645.5 LT		1	750	750	0.56																									W11-2 FYG SHEETING		SHS
		1	600	300	0.18						1		X		X															W16-7p FYG SHEETING		SHS
21+661.0 LT		1	750	600	0.45						1		X		X															D4-1		SHS
21+726.0 LT		1	300	450	0.14																									R7-8		SHS
		1	300	150	0.05						1		X		X	1														R7-8p		SHS
											m 0.0	m 0.0	m 0.0	m 0.0	m 38.6	m 0.0	EA. 1	kg 0.0	kg 0.0	kg 0.0		kg 0.0	kg 0.0	kg 0.0	kg 0.0						
SUBTOTALS SHEET 3		m2 5.73	m2 0.00	EA. 0	m2 0.00						m 0.0				m 38.6			kg 0.0			EA. 0	kg 0.0				EA. 0	EA. 0	kg 0				

FINAL POST LENGTHS ARE TO BE DETERMINED IN THE FIELD. POST SIZES ARE COMPUTED BASED ON INFORMATION FURNISHED ON THE STANDARD SHEETS AND THE ROADWAY TRAFFIC AND SAFETY SECTION'S "SIGN POST DESIGN GUIDELINE". ALL SIGN INSTALLATIONS ADJACENT TO SIDEWALKS OR AREAS WITH PEDESTRIAN ACCESS SHALL PROVIDE A MINIMUM OF 2.1m CLEAR HEIGHT FROM THE BOTTOM OF THE LOWEST SIGN TO THE GROUND OR AS DIRECTED BY THE ENGINEER.

PROJECT NAME: **BRANDON**
PROJECT NUMBER: **NH 019-3(496)**

FILE NAME: **zb008s6-tsss.xls**
PROJECT LEADER: **C. BEAN**
DESIGNED BY: **S. GOODWIN**
TRAFFIC SIGN SUMMARY SHEET # 3

PLOT 2/23/2017
DRAWN BY: **R. SHEDD**
CHECKED **P. MCKECHNIE**
SHEET 302 OF 601

TRAFFIC SIGN SUMMARY SHEET 4

ISSUED FOR CONSTRUCTION

Metric

STATION	SIGN LEGEND	SIGN DIMENSIONS EA	WIDTH (mm)	HEIGHT (mm)	NEW & SALVAGED SIGNS "A"	"B"	SALV SIGN	SALV TIS	EXIST POST RETAIN	EXIST POST SALVAGE	NEW SIGN POSTS NO. OF POSTS	SQUARE STEEL (mm) 44 kg/m 2.8	50 3.6	63 5.0	ANCHOR	SLEEVE	TUBULAR DIA (mm) 75 kg/m 1.9	100 2.5	100MD 2.5	TUBULAR STEEL DIA (mm) FND-ATION	75 kg/m 11.3	90 13.6	100 16.1	125 21.8	W-SHAPE STEEL FTG. SIZE 600 mm	750 mm	MASS	POST SIZE	SIGN FRAME	REMARKS FYG = FLUORESCENT YELLOW GREEN SHS = FHWA 2004 STANDARD HIGHWAY SIGNS AND MARKING BOOK AND THE 2012 SUPPLEMENT TO THE 2004 EDITION	SIGN DETAIL SEE MISC. SIGN DETAILS SHEET	STD. SHEET NUMBER (OR SHS)
US 7 21+748.0 LT	Center St	1	1050	300	0.32																									TO BE INSTALLED USING TOP MOUNTING BRACKET	X	
	Mill Ln	1	800	300	0.24																									TO BE INSTALLED USING TOP MOUNTING BRACKET	X	
	STOP	1	750	750	0.56						1			X	X															R1-1		SHS
21+759.9 RT		1	750	750	0.56																									W11-2 FYG SHEETING		SHS
		1	600	300	0.18						1		X		X															W16-7p FYG SHEETING		SHS
21+764.5 LT		1	750	750	0.56																									W11-2 MOUNT ON LIGHT POLE WITH STAINLESS STEEL BANDS. PROVIDE WORKING DRAWING DEPICTING ATTACHMENT METHOD. FYG SHEETING		SHS
		1	600	300	0.18																									W16-7p MOUNT ON LIGHT POLE WITH STAINLESS STEEL BANDS. PROVIDE WORKING DRAWING DEPICTING ATTACHMENT METHOD. FYG SHEETING		SHS
21+775.0 RT	RESERVED PARKING	1	300	450	0.14																									R7-8		SHS
	VAN ACCESSIBLE	1	300	150	0.05						1		X		X															R7-8p		SHS
21+800.7 RT	RESERVED PARKING	1	300	450	0.14						1		X		X	1														R7-8		SHS
21+809.1 RT		1	750	750	0.56						1		X		X															W11-2 FYG SHEETING		SHS
	50 FT	1	600	300	0.18																									W16-2aP FYG SHEETING		SHS
21+856.2 LT		1	750	750	0.56						1		X		X															W11-2 FYG SHEETING		SHS
	50 FT	1	600	300	0.18																									W16-2aP FYG SHEETING		SHS
21+890.0 LT	Briggs Ln	1	1000	300	0.30						1		X		X																X	
21+914.0 RT	SPEED LIMIT 25	1	600	750	0.45						1		X		X															R2-1		SHS
											m 0.0	m 0.0	m 0.0	m 0.0	m 29.7	m 4.4		EA. 1	kg 0.0	kg 0.0	kg 0.0		kg 0.0	kg 0.0	kg 0.0	kg 0.0						
	SUBTOTALS SHEET 4	m2 5.16	m2 0.00	EA. 0	m2 0.00						m 0.0			m 34.1			kg 0.0			EA. 0	kg 0.0				EA. 0	EA. 0	kg 0					

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PROJECT NAME: **BRANDON**
PROJECT NUMBER: **NH 019-3(496)**

FILE NAME: **zb008s6-tsss.xls**
PROJECT LEADER: **C. BEAN**
DESIGNED BY: **S. GOODWIN**
TRAFFIC SIGN SUMMARY SHEET # 4

PLOT 2/23/2017
DRAWN BY: **R. SHEDD**
CHECKED **P. MCKECHNIE**
SHEET 303 OF 601

TRAFFIC SIGN SUMMARY SHEET 5

ISSUED FOR CONSTRUCTION

Metric

STATION	SIGN LEGEND	SIGN DIMENSIONS EA	WIDTH (mm)	HEIGHT (mm)	NEW & SALVAGED SIGNS "A"	"B"	SALV SIGN	SALV TIS	EXIST POST RETAIN	EXIST POST SALVAGE	NO. OF POSTS	NEW SIGN POSTS SQUARE STEEL (mm) 44 (2.8 kg/m)	50 (3.6 kg/m)	63 (5.0 kg/m)	ANCHOR	SLEEVE	TUBULAR DIA (mm) 75 (1.9 kg/m)	100 (2.5 kg/m)	100MD (2.5 kg/m)	TUBULAR STEEL DIA (mm) FND-ATION	75 (11.3 kg/m)	90 (13.6 kg/m)	100 (16.1 kg/m)	125 (21.8 kg/m)	W-SHAPE STEEL FTG. SIZE 600 mm	750 mm	MASS	POST SIZE	SIGN FRAME	REMARKS FYG = FLUORESCENT YELLOW GREEN SHS = FHWA 2004 STANDARD HIGHWAY SIGNS AND MARKING BOOK AND THE 2012 SUPPLEMENT TO THE 2004 EDITION	SIGN DETAIL SEE MISC. SIGN DETAILS SHEET	STD. SHEET NUMBER (OR SHS)
US 7 22+015.1 LT	SPEED LIMIT 25	1	600	750	0.45						1		X		X															R2-1		SHS
22+025.0 RT	WEST	1	600	300	0.18																									M3-4 GREEN ON WHITE		SHS
	NORTH	1	600	300	0.18																									M3-1 BLACK ON WHITE		SHS
	VERMONT 73	1	600	600	0.36																									VM1-5 GREEN ON WHITE		E-136B
	7	1	600	600	0.36																									M1-4 BLACK ON WHITE		SHS
	SECOND LEFT	1	600	450	0.27						2		X		X														#2A	GREEN ON WHITE	X	
		1	525	375	0.20																									M6-3 BLACK ON WHITE		SHS
22+069.1 RT		1	750	750	0.56																									W11-2 FYG SHEETING		SHS
		1	600	300	0.18						1		X		X															W16-7p FYG SHEETING		SHS
22+072.0 LT		1	750	750	0.56																									W11-2 FYG SHEETING		SHS
		1	600	300	0.18						1		X		X															W16-7p FYG SHEETING		SHS
22+078.0 RT	ONLY	1	750	750	0.56						1		X		X															VR-921		E-145A
22+101.6 LT	STOP	1	750	750	0.56																									R1-1		SHS
		1	600	600	0.36						1				X	X														R3-2 - SPECIAL PROVISION (SOIL BEARING SLIP BASE) (2 1/2") REQUIRED		SHS
22+122.6 LT	SOUTH	1	600	300	0.18																									M3-3 BLACK ON WHITE		SHS
	EAST	1	600	300	0.18																									M3-2 GREEN ON WHITE		SHS
	7	1	600	600	0.36						2		X		X														#1A	M1-4 BLACK ON WHITE		SHS
	VERMONT 73	1	600	600	0.36																									VM1-5 GREEN ON WHITE		E-136B
22+147.0 RT	ONLY	1	750	750	0.56						1		X		X															VR-921		E-145A
22+147.0 RT	WEST	1	600	300	0.18																									M3-4 GREEN ON WHITE		SHS
	VERMONT 73	1	600	600	0.36																									VM1-5 GREEN ON WHITE		E-136B
		1	525	375	0.20						1		X		X															M5-2 GREEN ON WHITE		SHS

FINAL POST LENGTHS ARE TO BE DETERMINED IN THE FIELD. POST SIZES ARE COMPUTED BASED ON INFORMATION FURNISHED ON THE STANDARD SHEETS AND THE ROADWAY TRAFFIC AND SAFETY SECTION'S "SIGN POST DESIGN GUIDELINE". ALL SIGN INSTALLATIONS ADJACENT TO SIDEWALKS OR AREAS WITH PEDESTRIAN ACCESS SHALL PROVIDE A MINIMUM OF 2.1m CLEAR HEIGHT FROM THE BOTTOM OF THE LOWEST SIGN TO THE GROUND OR AS DIRECTED BY THE ENGINEER.

											m 0.0	m 0.0	m 0.0	m 0.0	m 44.6	m 4.7		EA. 0	kg 0.0	kg 0.0	kg 0.0		kg 0.0	kg 0.0	kg 0.0	kg 0.0						
SUBTOTALS SHEET 5		m2 7.34	m2 0.00	EA. 0	m2 0.00			m 0.0				m 49.3						kg 0.0		EA. 0		kg 0.0				EA. 0	EA. 0	kg 0					

PROJECT NAME: **BRANDON**
PROJECT NUMBER: **NH 019-3(496)**

FILE NAME: **zb008s6-tsss.xls**
PROJECT LEADER: **C. BEAN**
DESIGNED BY: **S. GOODWIN**
TRAFFIC SIGN SUMMARY SHEET # 5

PLOT 2/23/2017
DRAWN BY: **R. SHEDD**
CHECKED **P. MCKECHNIE**
SHEET 304 OF 601

TRAFFIC SIGN SUMMARY SHEET 6

ISSUED FOR CONSTRUCTION

Metric

STATION	SIGN LEGEND	SIGN DIMENSIONS EA	WIDTH (mm)	HEIGHT (mm)	NEW & SALVAGED SIGNS "A"	"B"	SALV SIGN	SALV TIS	EXIST POST RETAIN	EXIST POST SALVAGE	NO. OF POSTS	NEW SIGN POSTS SQUARE STEEL (mm) 44 kg/m 2.8	50 3.6	63 5.0	ANCHOR	SLEEVE	TUBULAR DIA (mm) 75 kg/m 1.9	100 2.5	100MD 2.5	TUBULAR STEEL DIA (mm) FND-ATION	75 kg/m 11.3	90 13.6	100 16.1	125 21.8	W-SHAPE STEEL FTG. SIZE 600 mm	750 mm	MASS	POST SIZE	SIGN FRAME	REMARKS	SIGN DETAIL SEE MISC. SIGN DETAILS SHEET	STD. SHEET NUMBER (OR SHS)
US 7 22+196.0 RT	NORTH SOUTH EAST	1	600	300	0.18																										FYG = FLUORESCENT YELLOW GREEN		
		1	600	300	0.18																										SHS = FHWA 2004 STANDARD HIGHWAY SIGNS AND MARKING		
		1	600	300	0.18																										BOOK AND THE 2012 SUPPLEMENT TO THE 2004 EDITION		
	7 7 VERMONT 73	1	600	600	0.36																										M3-1 B. ON W. INSTALL 1m BEHIND SIDEWALK		SHS
		1	600	600	0.36																										M3-3 BLACK ON WHITE		SHS
		1	600	600	0.36																										M3-2 GREEN ON WHITE		SHS
		1	525	375	0.20																										M1-4 BLACK ON WHITE		SHS
		1	525	375	0.20						2			X	X															M1-4 BLACK ON WHITE		SHS
		1	525	375	0.20																									#3A	VM1-5 GREEN ON WHITE		E-136B
																															M6-1 BLACK ON WHITE		SHS
																															M6-1 BLACK ON WHITE		SHS
																															M6-1 GREEN ON WHITE		SHS
22+208.0 RT		1	750	750	0.56																										W11-2 FYG SHEETING		SHS
		1	600	300	0.18						1			X	X															W16-7p FYG SHEETING		SHS
22+210.2 LT	WEST	1	600	300	0.18																										M3-4 GREEN ON WHITE		SHS
	VERMONT 73	1	600	600	0.36																										VM1-5 GREEN ON WHITE		E-136B
		1	525	375	0.20						1			X	X															M6-1 GREEN ON WHITE		SHS
22+211.0 LT		1	750	750	0.56																										W11-2 FYG SHEETING		SHS
		1	600	300	0.18						1			X	X															W16-7p FYG SHEETING		SHS
22+229.8 LT	SOUTH EAST WEST	1	600	300	0.18																										M3-3 BLACK ON WHITE		SHS
		1	600	300	0.18																										M3-2 GREEN ON WHITE		SHS
		1	600	300	0.18																										M3-4 GREEN ON WHITE		SHS
	7 VERMONT 73 VERMONT 73	1	600	600	0.36																										M1-4 BLACK ON WHITE		SHS
		1	600	600	0.36																										VM1-5 GREEN ON WHITE		E-136B
		1	600	600	0.36																										VM1-5 GREEN ON WHITE		E-136B
		1	525	375	0.20																										M6-3 BLACK ON WHITE		SHS
		1	525	375	0.20						2			X	X														#3A	M6-3 GREEN ON WHITE		SHS
		1	525	375	0.20																										M6-1 GREEN ON WHITE		SHS
											m 0.0	m 0.0	m 0.0	m 0.0	m 14.1	m 18.6	EA. 0	kg 0.0	kg 0.0	kg 0.0		kg 0.0	kg 0.0	kg 0.0	kg 0.0								
SUBTOTALS SHEET 6		m2 6.66	m2 0.00	EA. 0	m2 0.00						m 0.0				m 32.7			kg 0.0			EA. 0	kg 0.0				EA. 0	EA. 0	kg 0					

FINAL POST LENGTHS ARE TO BE DETERMINED IN THE FIELD. POST SIZES ARE COMPUTED BASED ON INFORMATION FURNISHED ON THE STANDARD SHEETS AND THE ROADWAY TRAFFIC AND SAFETY SECTION'S "SIGN POST DESIGN GUIDELINE". ALL SIGN INSTALLATIONS ADJACENT TO SIDEWALKS OR AREAS WITH PEDESTRIAN ACCESS SHALL PROVIDE A MINIMUM OF 2.1m CLEAR HEIGHT FROM THE BOTTOM OF THE LOWEST SIGN TO THE GROUND OR AS DIRECTED BY THE ENGINEER.

PROJECT NAME: **BRANDON**
PROJECT NUMBER: **NH 019-3(496)**

FILE NAME: **zb008s6-tsss.xls**
PROJECT LEADER: **C. BEAN**
DESIGNED BY: **S. GOODWIN**
TRAFFIC SIGN SUMMARY SHEET # 6

PLOT 2/23/2017
DRAWN BY: **R. SHEDD**
CHECKED **P. MCKECHNIE**
SHEET 305 OF 601

TRAFFIC SIGN SUMMARY SHEET 7

ISSUED FOR CONSTRUCTION

Metric

STATION	SIGN LEGEND	SIGN DIMENSIONS EA	WIDTH (mm)	HEIGHT (mm)	NEW & SALVAGED SIGNS "A"	"B"	SALV SIGN	SALV TIS	EXIST POST RETAIN	EXIST POST SALVAGE	NO. OF POSTS	NEW SIGN POSTS SQUARE STEEL (mm) 44 kg/m 2.8	50 kg/m 3.6	63 kg/m 5.0	ANCHOR	SLEEVE	TUBULAR DIA (mm) 75 kg/m 1.9	100 kg/m 2.5	100MD kg/m 2.5	TUBULAR STEEL DIA (mm) FND-ATION	75 kg/m 11.3	90 kg/m 13.6	100 kg/m 16.1	125 kg/m 21.8	W-SHAPE STEEL FTG. SIZE 600 mm	750 mm	MASS	POST SIZE	SIGN FRAME	REMARKS	SIGN DETAIL SEE MISC. SIGN DETAILS SHEET	STD. SHEET NUMBER (OR SHS)
US 7 22+235.7 RT	TIC	1					1				1		X		X																	
22+266.0 RT	NORTH	1	600	300	0.18																										M3-1 BLACK ON WHITE		SHS
	7	1	600	600	0.36						1		X		X																M1-4 BLACK ON WHITE		SHS
22+269.8 LT	TIC	1					1				1		X		X																	
22+295.0 LT	JCT	1	525	375	0.20																										M2-1 GREEN ON WHITE		SHS
	VERMONT 73	1	600	600	0.36						1		X		X																VM1-5 GREEN ON WHITE		E-136B
22+339.9 RT	SPEED LIMIT 35	1	600	750	0.45						1		X		X																R2-1		SHS
22+340.0 LT	SPEED LIMIT 25	1	600	750	0.45						1		X		X																R2-1		SHS
22+357.1 RT	PVT FARR WAY	1					1				1		X		X																	
22+515.0 RT	ONLY	1	750	750	0.56						1		X		X																VR-921		E-145A
22+532.9 LT	SPEED LIMIT 35	1	600	750	0.45						1		X		X																R2-1		SHS
22+555.2 RT	SPEED LIMIT 40	1	600	750	0.45						1		X		X																R2-1		SHS

FINAL POST LENGTHS ARE TO BE DETERMINED IN THE FIELD. POST SIZES ARE COMPUTED BASED ON INFORMATION FURNISHED ON THE STANDARD SHEETS AND THE ROADWAY TRAFFIC AND SAFETY SECTION'S "SIGN POST DESIGN GUIDELINE". ALL SIGN INSTALLATIONS ADJACENT TO SIDEWALKS OR AREAS WITH PEDESTRIAN ACCESS SHALL PROVIDE A MINIMUM OF 2.1m CLEAR HEIGHT FROM THE BOTTOM OF THE LOWEST SIGN TO THE GROUND OR AS DIRECTED BY THE ENGINEER.

											m 0.0	m 0.0	m 0.0	m 0.0	m 40.8	m 0.0		EA. 0	kg 0.0	kg 0.0	kg 0.0		kg 0.0	kg 0.0	kg 0.0	kg 0.0							
SUBTOTALS SHEET 7		m2 3.46	m2 0.00	EA. 3	m2 0.00			m 0.0				m 40.8					kg 0.0		EA. 0	kg 0.0			EA. 0	EA. 0	kg 0								

PROJECT NAME: **BRANDON**

PROJECT NUMBER: **NH 019-3(496)**

FILE NAME: **zb008s6-tsss.xls**
PROJECT LEADER: **C. BEAN**
DESIGNED BY: **S. GOODWIN**
TRAFFIC SIGN SUMMARY SHEET # 7

PLOT 2/23/2017
DRAWN BY: **R. SHEDD**
CHECKED **P. MCKECHNIE**
SHEET 306 OF 601

TRAFFIC SIGN SUMMARY SHEET 8

ISSUED FOR CONSTRUCTION

Metric

STATION	SIGN LEGEND	SIGN DIMENSIONS EA	WIDTH (mm)	HEIGHT (mm)	NEW & SALVAGED SIGNS "A"	"B"	SALV SIGN	SALV TIS	EXIST POST RETAIN	EXIST POST SALVAGE	NO. OF POSTS	NEW SIGN POSTS SQUARE STEEL (mm) 44 50 63 kg/m 2.8 3.6 5.0	ANCHOR	SLEEVE	TUBULAR DIA (mm) 75 100 100MD kg/m 1.9 2.5 2.5	FND-ATION	TUBULAR STEEL DIA (mm) 75 90 100 125 kg/m 11.3 13.6 16.1 21.8	W-SHAPE STEEL FTG. SIZE 600 mm 750 mm	MASS	POST SIZE	SIGN FRAME	REMARKS	SIGN DETAIL SEE MISC. SIGN DETAILS SHEET	STD. SHEET NUMBER (OR SHS)
HIGH ST. 40+014.3 LT	STOP 0070 1102 0341	1 1	750	750	0.56		1				1		X	X									R1-1 BACK TO BACK		SHS
40+027.5 RT	SPEED LIMIT 25	1	600	750	0.45						1		X	X									R2-1		SHS
VT 73E 36+015.1 LT	Franklin St	1	1050	300	0.32																			X	
	Park St	1	900	300	0.27																			X	
	0070 1102 0381	1	150	250	0.04						1		X	X											T-44
36+027.0 LT	ONLY ONLY	1	900	750	0.68						1		X	X									VR-925		E-145A
36+038.0 LT	P ARKING	1	750	600	0.45						1		X	X									D4-1		SHS
36+038.3 LT	P ARKING	1	750	600	0.45						1		X	X									D4-1		SHS
36+040.4 LT	DO NOT BLOCK INTERSECTION	1	600	750	0.45						1		X	X									R10-7		SHS
36+040.0 RT	EAST	1	600	300	0.18																		M3-2 GREEN ON WHITE		SHS
	VERMONT 73	1	600	600	0.36						1		X	X									VM1-5 GREEN ON WHITE		E-136B
36+060.8 RT	DURING LIBRARY HOURS PARKING FOR PATRONS ONLY VIOLATERS WILL BE TOWED	1					1				1		X	X											
36+064.1 RT	RESERVED PARKING	1	300	450	0.14																		R7-8		SHS
	VAN ACCESSIBLE	1	300	150	0.05						1		X	X									R7-8p		SHS
												m 0.0	m 0.0	m 0.0	m 0.0	m 40.4	m 0.0	EA. 0	kg 0.0	kg 0.0	kg 0.0	kg 0.0	kg 0.0	kg 0.0	kg 0.0	kg 0.0			
SUBTOTALS SHEET 8			m2 4.40	m2 0.00	EA. 2	m2 0.00						m 0.0				m 40.4			kg 0.0			EA. 0	kg 0.0			EA. 0	EA. 0	kg 0		

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PROJECT NAME: **BRANDON**
PROJECT NUMBER: **NH 019-3(496)**

FILE NAME: **zb008s6-tsss.xls**
PROJECT LEADER: **C. BEAN**
DESIGNED BY: **S. GOODWIN**
TRAFFIC SIGN SUMMARY SHEET # 8

PLOT 2/23/2017
DRAWN BY: **R. SHEDD**
CHECKED **P. MCKECHNIE**
SHEET 307 OF 601

TRAFFIC SIGN SUMMARY SHEET 9

ISSUED FOR CONSTRUCTION

Metric

STATION	SIGN LEGEND	SIGN DIMENSIONS EA	WIDTH (mm)	HEIGHT (mm)	NEW & SALVAGED SIGNS "A"	"B"	SALV SIGN	SALV TIS	EXIST POST RETAIN	EXIST POST SALVAGE	NO. OF POSTS	NEW SIGN POSTS SQUARE STEEL (mm) 44 kg/m 2.8	50 kg/m 3.6	63 kg/m 5.0	ANCHOR	SLEEVE	TUBULAR DIA (mm) 75 kg/m 1.9	100 kg/m 2.5	100MD kg/m 2.5	TUBULAR STEEL DIA (mm) FND-ATION	75 kg/m 11.3	90 kg/m 13.6	100 kg/m 16.1	125 kg/m 21.8	W-SHAPE STEEL FTG. SIZE 600 mm	750 mm	MASS	POST SIZE	SIGN FRAME	REMARKS FYG = FLUORESCENT YELLOW GREEN SHS = FHWA 2004 STANDARD HIGHWAY SIGNS AND MARKING BOOK AND THE 2012 SUPPLEMENT TO THE 2004 EDITION	SIGN DETAIL SEE MISC. SIGN DETAILS SHEET	STD. SHEET NUMBER (OR SHS)
VT 73E 36+065.2 LT	SOUTH NORTH WEST	1	600	300	0.18																									M3-3 BLACK ON WHITE		SHS
		1	600	300	0.18																									M3-1 BLACK ON WHITE		SHS
		1	600	300	0.18																									M3-4 GREEN ON WHITE		SHS
	7 7 VERMONT 73	1	600	600	0.36																									M1-4 BLACK ON WHITE		SHS
		1	600	600	0.36																									M1-4 BLACK ON WHITE		SHS
		1	600	600	0.36																									VM1-5 GREEN ON WHITE		E-136B
		1	525	375	0.20																									M6-1 BLACK ON WHITE		SHS
		1	525	375	0.20						2			X	X														#3A	M6-1 BLACK ON WHITE		SHS
		1	525	375	0.20																									M6-1 GREEN ON WHITE		SHS
36+090.0 LT		1	750	750	0.56						1		X		X															W3-3		SHS
36+120.0 RT	SPEED LIMIT 25	1	600	750	0.45						1		X		X															R2-1		SHS
36+120.0 LT	JCT	1	525	375	0.20																									M2-1 BLACK ON WHITE		SHS
	7	1	600	600	0.36						1		X		X															M1-4 BLACK ON WHITE		SHS
LOT - A 30+015.9 LT	STOP	1	750	750	0.56						1		X		X															R1-1		SHS
30+046.2 RT	PVT RANDLE DR	1					1				1		X		X																	
30+062.0 RT		1	750	750	0.56																									W11-2 FYG SHEETING		SHS
		1	600	300	0.18						1		X		X															W16-7p FYG SHEETING		SHS
30+063.8 LT		1	750	750	0.56																									W11-2 FYG SHEETING		SHS
		1	600	300	0.18						1		X		X															W16-7p FYG SHEETING		SHS
												m 0.0	m 0.0	m 0.0	m 0.0	m 30.0	m 9.3		EA. 0	kg 0.0	kg 0.0	kg 0.0		kg 0.0	kg 0.0	kg 0.0	kg 0.0					
	SUBTOTALS SHEET 9	m2	5.83	m2	0.00	EA.	1	m2	0.00		m	0.0		m	39.3		kg	0.0	EA.	0	kg	0.0		EA.	0	EA.	0	kg	0			

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PROJECT NAME: **BRANDON**
PROJECT NUMBER: **NH 019-3(496)**

FILE NAME: **zb008s6-tsss.xls**
PROJECT LEADER: **C. BEAN**
DESIGNED BY: **S. GOODWIN**
TRAFFIC SIGN SUMMARY SHEET # 9

PLOT 2/23/2017
DRAWN BY: **R. SHEDD**
CHECKED **P. MCKECHNIE**
SHEET 308 OF 601

TRAFFIC SIGN SUMMARY SHEET 10

ISSUED FOR CONSTRUCTION

Metric

STATION	SIGN LEGEND	SIGN DIMENSIONS EA	WIDTH (mm)	HEIGHT (mm)	NEW & SALVAGED SIGNS "A"	"B"	SALV SIGN	SALV TIS	EXIST POST RETAIN	EXIST POST SALVAGE	NO. OF POSTS	NEW SIGN POSTS SQUARE STEEL (mm) 44 kg/m 2.8	50 kg/m 3.6	63 kg/m 5.0	ANCHOR	SLEEVE	TUBULAR DIA (mm) 75 kg/m 1.9	100 kg/m 2.5	100MD kg/m 2.5	TUBULAR STEEL DIA (mm) FND-ATION	75 kg/m 11.3	90 kg/m 13.6	100 kg/m 16.1	125 kg/m 21.8	W-SHAPE STEEL FTG. SIZE 600 mm	750 mm	MASS	POST SIZE	SIGN	FRAME	REMARKS	SIGN DETAIL SEE MISC. SIGN DETAILS SHEET	STD. SHEET NUMBER (OR SHS)
LOT - A 30+104.0 RT	RESERVED PARKING	1	300	450	0.14																											R7-8		SHS
	VAN ACCESSIBLE	1	300	150	0.05						1		X		X																	R7-8p		SHS
30+117.9 RT		1	750	750	0.56																											W11-2 FYG SHEETING		SHS
		1	600	300	0.18						1		X		X																	W16-7p FYG SHEETING		SHS
30+119.4 LT		1	750	750	0.56																											W11-2 FYG SHEETING		SHS
		1	600	300	0.18						1		X		X																	W16-7p FYG SHEETING		SHS
30+157.6 RT	RESERVED PARKING	1	300	450	0.14						1		X		X																	R7-8		SHS
30+158.6 RT	RESERVED PARKING	1	300	450	0.14						1		X		X																	R7-8		SHS
30+158.7 RT	STOP	1	750	750	0.56																											R1-1		SHS
		1	600	600	0.36						1				X	X	1															R3-2		SHS
CARVER ST. 34+015.3 LT	Carver St	1	1050	300	0.32						1		X			X																		X	
34+029.5 RT	LEGAL LOAD LIMIT 24,000 POUNDS	1	600	750	0.45						1		X			X																	VR-017		T-70
34+032.1 LT	ONLY ONLY	1	900	750	0.68						1		X			X																	VR-925		E-145A
34+038.8 RT	RESERVED PARKING	1	300	450	0.14																											R7-8		SHS
	VAN ACCESSIBLE	1	300	150	0.05						1		X			X																	R7-8p		SHS
												m 0.0	m 0.0	m 0.0	m 0.0	m 36.9	m 4.7		EA. 1	kg 0.0	kg 0.0	kg 0.0		kg 0.0	kg 0.0	kg 0.0	kg 0.0							
SUBTOTALS SHEET 10		m2 4.51	m2 0.00	EA. 0	m2 0.00							m 0.0				m 41.6				kg 0.0			EA. 0	kg 0.0				EA. 0	EA. 0	kg 0				

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PROJECT NUMBER: **NH 019-3(496)**

FILE NAME: **zb008s6-tsss.xls**
PROJECT LEADER: **C. BEAN**
DESIGNED BY: **S. GOODWIN**
TRAFFIC SIGN SUMMARY SHEET # 10

PLOT 2/23/2017
DRAWN BY: **R. SHEDD**
CHECKED **P. MCKECHNIE**
SHEET 309 OF 601

TRAFFIC SIGN SUMMARY SHEET 11

ISSUED FOR CONSTRUCTION

Metric

STATION	SIGN LEGEND	SIGN DIMENSIONS EA	WIDTH (mm)	HEIGHT (mm)	NEW & SALVAGED SIGNS "A"	"B"	SALV SIGN	SALV TIS	EXIST POST RETAIN	EXIST POST SALVAGE	NO. OF POSTS	NEW SIGN POSTS			SQUARE STEEL (mm) 44 kg/m 2.8	50 3.6	63 5.0	ANCHOR	SLEEVE	TUBULAR DIA (mm) 75 kg/m 1.9	100 2.5	100MD 2.5	TUBULAR STEEL DIA (mm) FND-ATION	75 11.3	90 13.6	100 16.1	125 21.8	W-SHAPE STEEL FTG. SIZE 600 mm	750 mm	MASS	POST SIZE	SIGN	FRAME	REMARKS	SIGN DETAIL SEE MISC. SIGN DETAILS SHEET	STD. SHEET NUMBER (OR SHS)
CARVER ST. 34+088.8 LT		1	750	750	0.56						1					X		X																	W3-3		SHS
34+096.9 RT	SPEED LIMIT 25	1	600	750	0.45						1					X		X																	R2-1		SHS
34+207.9 RT	Carver St	1	1050	300	0.32																														TO BE INSTALLED USING TOP MOUNTING BRACKET	X	
	Rossiter St	1	1050	300	0.32																														TO BE INSTALLED USING TOP MOUNTING BRACKETS	X	
	STOP	1	750	750	0.56						1							X	X																R1-1 - SPECIAL PROVISION (SOIL BEARING SLIP BASE) (2 1/2") REQUIRED		SHS
UNION ST. 35+016.5 LT	Union St	1	1000	300	0.30						1					X		X																			X	
35+030.0 LT	ONLY ONLY	1	900	750	0.68						1					X		X																	VR-925		E-145A
35+036.5 RT	RESERVED PARKING	1	300	450	0.14																														R7-8 MOUNT ON WALL. PROVIDE WORKING DRAWINGS DEPICTING MOUNTING METHOD		SHS
	VAN ACCESSIBLE	1	300	150	0.05																														R7-8p MOUNT ON WALL. PROVIDE WORKING DRAWINGS DEPICTING MOUNTING METHOD		SHS
35+039.8 RT	RESERVED PARKING	1	300	450	0.14																														R7-8 MOUNT ON WALL. PROVIDE WORKING DRAWINGS DEPICTING MOUNTING METHOD		SHS
35+073.0 RT	SPEED LIMIT 25	1	600	750	0.45						1					X		X																	R2-1		SHS
W.SEMINARY ST. 9+011.2 LT	REC DEPT. LISTERS OFFICE	1					1				1					X		X																			
9+011.7 LT	ENTRANCE	1					1				1					X		X																			
9+011.5 LT	Conant Sq	1	1050	300	0.32																														TO BE INSTALLED USING TOP MOUNTING BRACKET	X	
	W Seminary St	1	1400	300	0.42						2					X		X																	TO BE INSTALLED USING TOP MOUNTING BRACKET	X	
												m 0.0	m 0.0	m 0.0	m 0.0	m 35.0	m 4.4		EA. 0	kg 0.0	kg 0.0	kg 0.0		kg 0.0	kg 0.0	kg 0.0	kg 0.0								
SUBTOTALS SHEET 11			m2 4.71	m2 0.00	EA. 2	m2 0.00						m 0.0			m 39.4					kg 0.0			EA. 0	kg 0.0				EA. 0	EA. 0	kg 0						

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PROJECT NUMBER: **NH 019-3(496)**

FILE NAME: **zb008s6-tsss.xls**
PROJECT LEADER: **C. BEAN**
DESIGNED BY: **S. GOODWIN**
TRAFFIC SIGN SUMMARY SHEET # 11

PLOT 2/23/2017
DRAWN BY: **R. SHEDD**
CHECKED **P. MCKECHNIE**
SHEET 310 OF 601

TRAFFIC SIGN SUMMARY SHEET 12

ISSUED FOR CONSTRUCTION

Metric

STATION	SIGN LEGEND	SIGN DIMENSIONS EA	WIDTH (mm)	HEIGHT (mm)	NEW & SALVAGED SIGNS "A"	"B"	SALV SIGN	SALV TIS	EXIST POST RETAIN	EXIST POST SALVAGE	NO. OF POSTS	NEW SIGN POSTS SQUARE STEEL (mm) 44 kg/m 2.8	50 kg/m 3.6	63 kg/m 5.0	ANCHOR	SLEEVE	TUBULAR DIA (mm) 75 kg/m 1.9	100 kg/m 2.5	100MD kg/m 2.5	TUBULAR STEEL DIA (mm) FND-ATION	75 kg/m 11.3	90 kg/m 13.6	100 kg/m 16.1	125 kg/m 21.8	W-SHAPE STEEL FTG. SIZE 600 mm	750 mm	MASS	POST SIZE	SIGN	FRAME	REMARKS FYG = FLUORESCENT YELLOW GREEN SHS = FHWA 2004 STANDARD HIGHWAY SIGNS AND MARKING BOOK AND THE 2012 SUPPLEMENT TO THE 2004 EDITION	SIGN DETAIL SEE MISC. SIGN DETAILS SHEET	STD. SHEET NUMBER (OR SHS)
W.SEMINARY ST. 9+013.3 LT	STOP 0070 1102 0400	1	750	750	0.56						1		X		X																	R1-1		SHS
		1					1																								BACK TO BACK		
9+028.6 RT	LEGAL LOAD LIMIT 24,000 POUNDS	1	600	750	0.45						1		X		X																	VR-017		T-70
PROSPECT ST. 8+009.0 LT	Conant Sq	1	1050	300	0.32																											TO BE INSTALLED USING TOP MOUNTING BRACKET	X	
	Prospect St	1	1050	300	0.32																											TO BE INSTALLED USING TOP MOUNTING BRACKET	X	
	STOP 0070 1102 0408	1	750	750	0.56						1			X	X																	R1-1		SHS
		1					1																								BACK TO BACK		
PEARL ST. 19+014.1 LT	Conant Sq	1	1050	300	0.32																											TO BE INSTALLED USING TOP MOUNTING BRACKET	X	
	Pearl St	1	900	300	0.27																											TO BE INSTALLED USING TOP MOUNTING BRACKET	X	
	STOP	1	750	750	0.56						1			X	X																	R1-1		SHS
19+066.0 RT	SPEED LIMIT 25	1	600	750	0.45						1		X		X																	R2-1		SHS
19+107.1 RT	12'-0"	1	900	900	0.81																											W12-2		SHS
	1 ¼ MILES	1	750	600	0.45						1			X	X																	W16-3P - SPECIAL PROVISION (SOIL BEARING SLIP BASE) (2 1/2") REQUIRED		SHS
VT 73W 18+018.4 LT	Grove St	1	1000	300	0.30																											TO BE INSTALLED USING TOP MOUNTING BRACKET	X	
	Champlain St	1	1400	300	0.42						2		X		X																	TO BE INSTALLED USING TOP MOUNTING BRACKET	X	
											m 0.0	m 0.0	m 0.0	m 0.0	m 19.4	m 13.8		EA. 0	kg 0.0	kg 0.0	kg 0.0		kg 0.0	kg 0.0	kg 0.0	kg 0.0							
SUBTOTALS SHEET 12		m2 5.79	m2 0.00	EA. 2	m2 0.00						m 0.0				m 33.2				kg 0.0			EA. 0	kg 0.0				EA. 0	EA. 0	kg 0				

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FILE NAME: **zb008s6-tsss.xls**
PROJECT LEADER: **C. BEAN**
DESIGNED BY: **S. GOODWIN**
TRAFFIC SIGN SUMMARY SHEET # 12

PLOT 2/23/2017
DRAWN BY: **R. SHEDD**
CHECKED **P. MCKECHNIE**
SHEET 311 OF 601

TRAFFIC SIGN SUMMARY SHEET 13

ISSUED FOR CONSTRUCTION

Metric

STATION	SIGN LEGEND	SIGN DIMENSIONS EA	WIDTH (mm)	HEIGHT (mm)	NEW & SALVAGED SIGNS "A"	"B"	SALV SIGN	SALV TIS	EXIST POST RETAIN	EXIST POST SALVAGE	NO. OF POSTS	NEW SIGN POSTS SQUARE STEEL (mm) 44 / 50 / 63 kg/m 2.8 / 3.6 / 5.0	ANCHOR	SLEEVE	TUBULAR DIA (mm) 75 / 100 / 100MD kg/m 1.9 / 2.5 / 2.5	FND-ATION	TUBULAR STEEL DIA (mm) 75 / 90 / 100 / 125 kg/m 11.3 / 13.6 / 16.1 / 21.8	W-SHAPE STEEL FTG. SIZE 600 mm / 750 mm	MASS	POST SIZE	SIGN FRAME	REMARKS FYG = FLUORESCENT YELLOW GREEN SHS = FHWA 2004 STANDARD HIGHWAY SIGNS AND MARKING BOOK AND THE 2012 SUPPLEMENT TO THE 2004 EDITION	SIGN DETAIL SEE MISC. SIGN DETAILS SHEET	STD. SHEET NUMBER (OR SHS)
VT 73W 18+019.9 LT	STOP 0070 1102 0420	1 1	750	750	0.56		1				1		X	X									R1-1 BACK TO BACK		SHS
18+060.0 RT	WEST	1	600	300	0.18																		M3-4 GREEN ON WHITE		SHS
	VERMONT 73	1	600	600	0.36						1		X	X									VM1-5 GREEN ON WHITE		E-136B
18+091.8 LT	NORTH SOUTH EAST	1 1 1	600 600 600	300 300 300	0.18 0.18 0.18																		M3-1 BLACK ON WHITE M3-3 BLACK ON WHITE M3-2 GREEN ON WHITE		SHS SHS SHS
	7 7 VERMONT 73	1 1 1	600 600 600	600 600 600	0.36 0.36 0.36																		M1-4 BLACK ON WHITE M1-4 BLACK ON WHITE VM1-5 GREEN ON WHITE		SHS SHS E-136B
		1 1 1	525 525 525	375 375 375	0.20 0.20 0.20						2			X X								#3A	M6-1 BLACK ON WHITE M6-1 BLACK ON WHITE M6-1 GREEN ON WHITE		SHS SHS SHS
18+165.0 LT	JCT	1	525	375	0.20																		M2-1 BLACK ON WHITE		SHS
	7	1	600	600	0.36																		M1-4 BLACK ON WHITE		SHS
	TIC	1					1				1		X	X											

FINAL POST LENGTHS ARE TO BE DETERMINED IN THE FIELD. POST SIZES ARE COMPUTED BASED ON INFORMATION FURNISHED ON THE STANDARD SHEETS AND THE ROADWAY TRAFFIC AND SAFETY SECTION'S "SIGN POST DESIGN GUIDELINE". ALL SIGN INSTALLATIONS ADJACENT TO SIDEWALKS OR AREAS WITH PEDESTRIAN ACCESS SHALL PROVIDE A MINIMUM OF 2.1m CLEAR HEIGHT FROM THE BOTTOM OF THE LOWEST SIGN TO THE GROUND OR AS DIRECTED BY THE ENGINEER.

							m 0.0	m 0.0	m 0.0	m 0.0	m 13.1	m 9.3		EA. 0	kg 0.0	kg 0.0	kg 0.0		kg 0.0	kg 0.0	kg 0.0	kg 0.0			
SUBTOTALS SHEET 13	m2 3.88	m2 0.00	EA. 2	m2 0.00		m 0.0			m 22.4				kg 0.0	EA. 0	kg 0.0			EA. 0	EA. 0	kg 0					

PROJECT NAME: **BRANDON**
PROJECT NUMBER: **NH 019-3(496)**

FILE NAME: **zb008s6-tsss.xls**
PROJECT LEADER: **C. BEAN**
DESIGNED BY: **S. GOODWIN**
TRAFFIC SIGN SUMMARY SHEET # 13

PLOT 2/23/2017
DRAWN BY: **R. SHEDD**
CHECKED **P. MCKECHNIE**
SHEET 312 OF 601

TRAFFIC SIGN SUMMARY SHEET 14

ISSUED FOR CONSTRUCTION

Metric

STATION	SIGN LEGEND	SIGN DIMENSIONS EA	WIDTH (mm)	HEIGHT (mm)	NEW & SALVAGED SIGNS "A"	"B"	SALV SIGN	SALV TIS	EXIST POST RETAIN	EXIST POST SALVAGE	NO. OF POSTS	NEW SIGN POSTS SQUARE STEEL (mm) 44 kg/m 2.8	50 kg/m 3.6	63 kg/m 5.0	ANCHOR	SLEEVE	TUBULAR DIA (mm) 75 kg/m 1.9	100 kg/m 2.5	100MD kg/m 2.5	TUBULAR STEEL DIA (mm) FND-ATION	75 kg/m 11.3	90 kg/m 13.6	100 kg/m 16.1	125 kg/m 21.8	W-SHAPE STEEL FTG. SIZE 600 mm	750 mm	MASS	POST SIZE	SIGN FRAME	REMARKS	SIGN DETAIL SEE MISC. SIGN DETAILS SHEET	STD. SHEET NUMBER (OR SHS)
																															FYG = FLUORESCENT YELLOW GREEN SHS = FHWA 2004 STANDARD HIGHWAY SIGNS AND MARKING BOOK AND THE 2012 SUPPLEMENT TO THE 2004 EDITION		
	SUBTOTALS SHEET 1				6.00	0.00	1	0.00				0.0	0.0	0.0	0.0	42.9	0.0		0	0	0.0	0.0	0	0.0	0.0	0.0	0.0	0	0	0					
	SUBTOTALS SHEET 2				6.82	0.00	2	0.00				0.0	0.0	0.0	0.0	21.6	9.3		0	0	0.0	0.0	1	0.0	63.3	0.0	0.0	0	0	0					
	SUBTOTALS SHEET 3				5.73	0.00	0	0.00				0.0	0.0	0.0	0.0	38.6	0.0		1	0	0.0	0.0	0	0.0	0.0	0.0	0.0	0	0	0					
	SUBTOTALS SHEET 4				5.16	0.00	0	0.00				0.0	0.0	0.0	0.0	29.7	4.4		1	0	0.0	0.0	0	0.0	0.0	0.0	0.0	0	0	0					
	SUBTOTALS SHEET 5				7.34	0.00	0	0.00				0.0	0.0	0.0	0.0	44.6	4.7		0	0	0.0	0.0	0	0.0	0.0	0.0	0.0	0	0	0					
	SUBTOTALS SHEET 6				6.66	0.00	0	0.00				0.0	0.0	0.0	0.0	14.1	18.6		0	0	0.0	0.0	0	0.0	0.0	0.0	0.0	0	0	0					
	SUBTOTALS SHEET 7				3.46	0.00	3	0.00				0.0	0.0	0.0	0.0	40.8	0.0		0	0	0.0	0.0	0	0.0	0.0	0.0	0.0	0	0	0					
	SUBTOTALS SHEET 8				4.40	0.00	2	0.00				0.0	0.0	0.0	0.0	40.4	0.0		0	0	0.0	0.0	0	0.0	0.0	0.0	0.0	0	0	0					
	SUBTOTALS SHEET 9				5.83	0.00	1	0.00				0.0	0.0	0.0	0.0	30.0	9.3		0	0	0.0	0.0	0	0.0	0.0	0.0	0.0	0	0	0					
	SUBTOTALS SHEET 10				4.51	0.00	0	0.00				0.0	0.0	0.0	0.0	36.9	4.7		1	0	0.0	0.0	0	0.0	0.0	0.0	0.0	0	0	0					
	SUBTOTALS SHEET 11				4.71	0.00	2	0.00				0.0	0.0	0.0	0.0	35.0	4.4		0	0	0.0	0.0	0	0.0	0.0	0.0	0.0	0	0	0					
	SUBTOTALS SHEET 12				5.79	0.00	2	0.00				0.0	0.0	0.0	0.0	19.4	13.8		0	0	0.0	0.0	0	0.0	0.0	0.0	0.0	0	0	0					
	SUBTOTALS SHEET 13				3.88	0.00	2	0.00				0.0	0.0	0.0	0.0	13.1	9.3		0	0	0.0	0.0	0	0.0	0.0	0.0	0.0	0	0	0					
	PROJECT SUBTOTALS				70.29	0.00	15	0.00				0.0	0.0	0.0	0.0	407.1	78.5		3	0	0.0	0.0	1	0.0	63.3	0.0	0.0	0	0	0					
	PROJECT ROUNDINGS				0.71	0.00	0	0.00				0.0	0.0	0.0	0.0	2.9	1.5		0	0	0.0	0.0	0	0.0	0.7	0.0	0.0	0	0	0					
					m 0.0	m 0.0	m 0.0					m 0.0	m 410.0	m 80.0		EA. 3	kg 0.0	kg 0.0	kg 0.0		kg 0.0	kg 64.0	kg 0.0	kg 0.0										
	PROJECT TOTALS				m2 71.00	m2 0.00	EA. 15	m2 0.00				m 0.0				m 490.0			kg 0.0		EA. 1		kg 64.0			EA. 0	EA. 0	kg 0					

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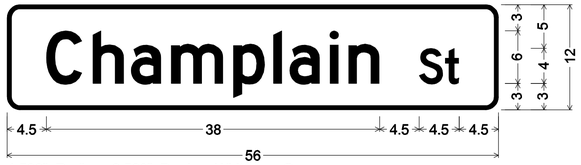
PROJECT NAME: **BRANDON**
PROJECT NUMBER: **NH 019-3(496)**

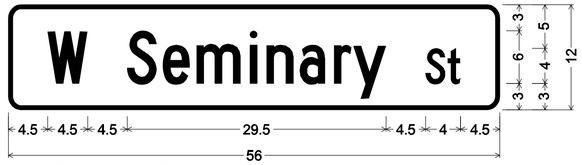
FILE NAME: **zb008s6-tsss.xls**
PROJECT LEADER: **C. BEAN**
DESIGNED BY: **S. GOODWIN**
TRAFFIC SIGN SUMMARY SHEET # 14

PLOT 2/23/2017
DRAWN BY: **R. SHEDD**
CHECKED **P. MCKECHNIE**
SHEET 313 OF 601

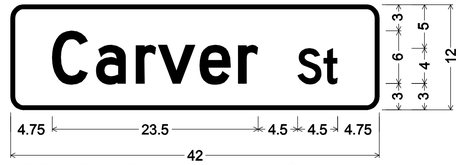
Metric



1.500" Radius, 0.500" Border, White on Green;
[Champlain] D 2K; [St] D 2K;



1.500" Radius, 0.500" Border, White on Green;
[W Seminary] C 2K; [St] C 2K;



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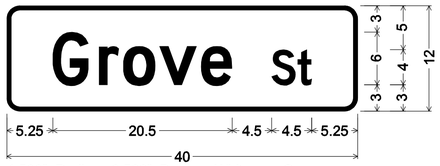
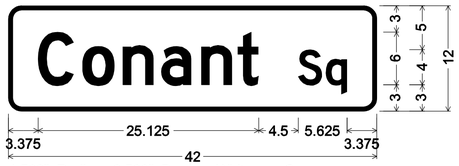
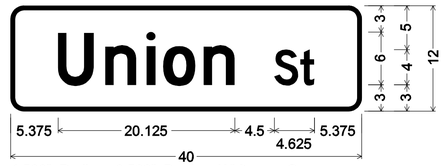
[Carver] D 2K; [St] D 2K;



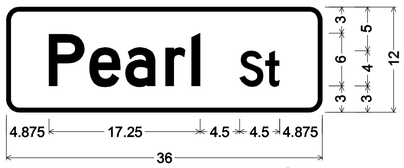
1.500" Radius, 0.500" Border, White on Green;
[Grove] D 2K; [St] D 2K;



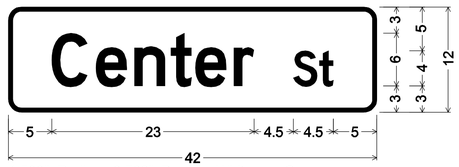
1.500" Radius, 0.500" Border, White on Green;
[Conant] D 2K; [Sq] D 2K;



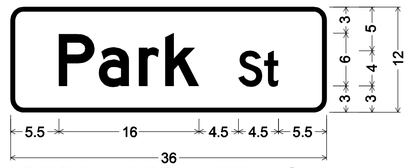
1.500" Radius, 0.500" Border, White on Green;
[Union] D 2K; [St] D 2K;



1.500" Radius, 0.500" Border, White on Green;
[Pearl] D 2K; [St] D 2K;



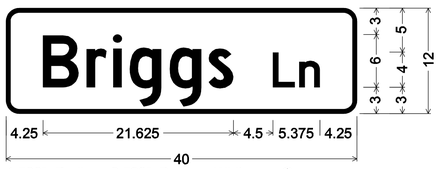
1.500" Radius, 0.500" Border, White on Green;
[Center] D 2K; [St] D 2K;



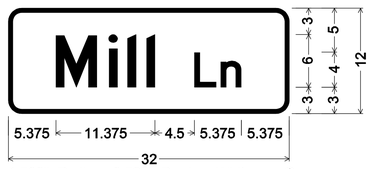
1.500" Radius, 0.500" Border, White on Green;
[Park] D 2K; [St] D 2K;

SIGNING GENERAL NOTES:

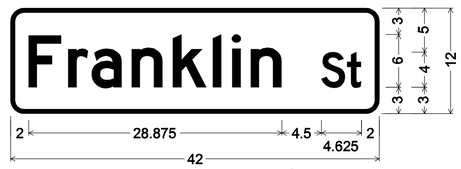
1. ALL MATERIALS AND CONSTRUCTION SHALL CONFORM TO THE LATEST EDITION OF THE STATE OF VERMONT AGENCY OF TRANSPORTATION (VTRANS) STANDARD SPECIFICATIONS FOR CONSTRUCTION, DATED 2011; THE LATEST EDITION OF THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES (MUTCD), DATED 2009 AND LATEST REVISIONS; THE STANDARD HIGHWAY SIGNS BOOK (SHSM), DATED 2004, AND THE 2012 SUPPLEMENT OF THE 2004 EDITION (SHSM).
2. REFER TO VTRANS STANDARD T-2 AND DETAILS THIS SHEET FOR SIGN FONT, COLORS, SHEET ALUMINUM THICKNESS, AND RETROREFLECTIVE SHEETING REQUIREMENTS.
3. SIGN SHEETING FOR FLUORESCENT YELLOW AND FLUORESCENT YELLOW GREEN SHALL BE AASHTO M268 (ASTM D4956) TYPE VII, VIII OR IX. ALL OTHER SIGN SHEETING SHALL BE TYPE III OR IV.
4. SHEETING TYPES AND MANUFACTURERS SHALL NOT BE MIXED ON A SINGLE SIGN ASSEMBLY. SHEETING COLOR/TYPE SHOULD BE BY THE SAME MANUFACTURER AND BE CONSISTENT THROUGHOUT THE PROJECT.
5. SIGN BASE MATERIAL FOR STREET NAME SIGNS DETAILED THIS SHEET SHALL BE 3.2 mm (0.125") THICK FLAT SHEET ALUMINUM.
6. TOP-MOUNTED STREET NAME SIGNS REQUIRE 305 mm (12 INCH) MOUNTING BRACKETS. ALL MOUNTING HARDWARE IS INCIDENTAL TO PAY ITEM 675.20 TRAFFIC SIGN, TYPE A.
7. ALL STREET NAME SIGNS TO BE DOUBLE SIDED.
8. STICKER ON BACK OF NEW SIGNS, PER SUBSECTION 675.02 OF THE SPECIFICATIONS, SHALL READ "BRANDON" (NOT "VAOT").



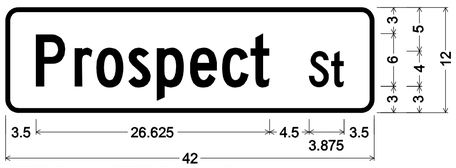
1.500" Radius, 0.500" Border, White on Green;
[Briggs] D 2K; [Ln] D 2K;



1.500" Radius, 0.500" Border, White on Green;
[Mill] D 2K; [Ln] D 2K;



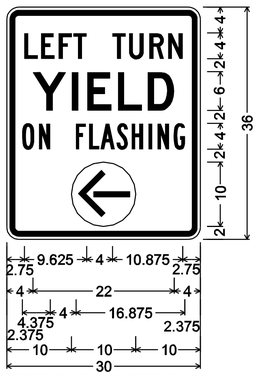
1.500" Radius, 0.500" Border, White on Green;
[Franklin] D 2K; [St] D 2K;



1.500" Radius, 0.500" Border, White on Green;
[Prospect] C 2K; [St] C 2K;

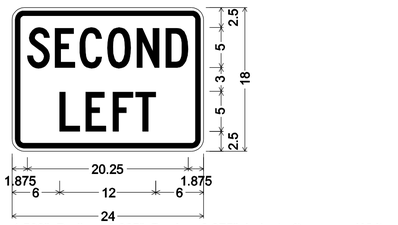
1.500" Radius, 0.500" Border, White on Green;
[Rossiter] D 2K; [St] D 2K;

1.500" Radius, 0.625" Border, 0.375" Indent, Black on White;
[EXIT] D 2K; [ONLY] D 2K;

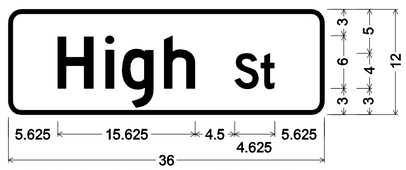


1.875" Radius, 0.750" Border, 0.500" Indent, Black on White;
[LEFT TURN] C 2K;
[YIELD] D 2K;
[ON FLASHING] B 2K;
FYA symbol;

MOUNTED ON SIGNAL MAST ARM NO. 20



1.500" Radius, 0.625" Border, 0.375" Indent, Green on White;
[SECOND] C 2K 75% spacing;
[LEFT] C 2K;



1.500" Radius, 0.500" Border, White on Green;
[High] D 2K; [St] D 2K;

NOTE:

1. FOR CONVENIENCE FOR FABRICATION, ALL SIGN DIMENSIONS SHOWN IN INCHES

SIGNING GENERAL NOTES / DETAILS

PROJECT NAME: BRANDON
PROJECT NUMBER: NH 019-3(496)

FILE NAME: zb008s6-tsdet.dgn
PROJECT LEADER: C. BEAN
DESIGNED BY: S. GOODWIN
PLOT DATE: 2/23/2017
DRAWN BY: S. GOODWIN
CHECKED BY: D.MUNRO
SHEET 314 OF 601

CLD 02-0448 MODEL:1

ISSUED FOR CONSTRUCTION

VAOT Metric

1. ALL PROPOSED TRAFFIC SIGNAL WORK SHALL CONFORM TO THE VERMONT AGENCY OF TRANSPORTATION (VTRANS) 2011 STANDARD SPECIFICATIONS FOR CONSTRUCTION, VTRANS STANDARD PLANS, THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES 2009 EDITION (MUTCD) OR AS AMENDED ON THESE PLANS OR CONTRACT SPECIFICATIONS.

2. CONSTRUCTION SEQUENCE

   A. WORK SHALL NOT PROCEED ON THE TRAFFIC SIGNALS UNTIL ALL EQUIPMENT NECESSARY FOR THAT INTERSECTION IS ON PROJECT SITE (EXCEPTION - CONDUIT, PULL BOXES, JUNCTION BOXES AND POLE BASES MAY BE INSTALLED PRIOR TO OTHER SIGNAL WORK).

3. NEW SIGNAL EQUIPMENT

   A. ALL SIGNAL HEADS HOUSING SHALL BE 305 mm (12 INCHES) POLYCARBONATE. THE SIGNAL HEADS EQUIPMENT SHALL BE FLAT BLACK AND INCLUDE FLAT BLACK VISORS.

   B. ALL SIGNAL HEADS SHALL HAVE FLAT BLACK LOUVERED BACK PLATES WITH A 50 mm (2-INCH) RETROREFLECTIVE TAPE BORDER.

   C. THE TRAFFIC SIGNAL CONTROLLER AND RELATED EQUIPMENT SHALL BE ECONOLITE, NAZTEC OR MCCAIN (NEMA TS2, TYPE 2) IN A NEMA P44 TRAFFIC CONTROL CABINET WITH A 381 mm (15-INCH) BASE EXTENSION INSTALLED AT THE LOCATION SHOWN ON THE TRAFFIC LAYOUT PLAN.

   D. THE CONTROL CABINET SHALL BE ORIENTED SUCH THAT THE DOOR DOES NOT FACE THE ROADWAY. THE CABINET AND BASE EXTENSIONS SHALL BE FLAT BLACK.

   E. ALL SIGNAL HEADS SHALL HAVE RED, YELLOW AND GREEN LED INDICATORS WITH A VISIBLE SPREAD OF 80 DEGREES OFF AXIS.

   F. ALL SIGNAL HEADS SHALL BE MOUNTED ON THE BRACKET SUCH THAT THE MIDDLE ONE-THIRD OF THE SIGNAL HEAD ALIGNS WITH THE MAST ARM.

   G. RELATED TRAFFIC SIGNAL EQUIPMENT SUCH AS THE BUS INTERFACE UNIT (BUI) AND THE MALFUNCTION MANAGEMENT UNIT (MMU) SHALL BE ECONOLITE BRAND OR APPROVED EQUAL.

   H. ALL SIGNAL EQUIPMENT AND MAST ARM MOUNTED SIGNS SHALL HAVE SAFETY CABLES.

   I. A DISCONNECT BREAKER FOR EACH CIRCUIT SHALL BE INSTALLED IN A RAINPROOF (NEMA 3R), LOCKED CABINET. SEE LIGHTING PANELBOARD DETAIL ON LIGHTING DETAILS SHEET.

4. JUNCTION BOXES

   A. MINIMUM JUNCTION BOX SIZE SHALL BE AS SHOWN ON THE JUNCTION BOX DETAIL ON THE LIGHTING DETAILS SHEET, OR LARGER, AS REQUIRED BY THE ELECTRICAL CODE.

   B. THE LOGO ON JUNCTION BOXES SHALL BE "SIGNAL".

   C. ALL JUNCTION BOXES SHALL BE INSTALLED PER THE JUNCTION BOX DETAIL AND IN ACCORDANCE WITH SECTION 678.

5. TRAFFIC SIGNAL CONDUIT

   A. ALL TRAFFIC SIGNAL CONDUIT SHALL BE SCHEDULE 80 PVC.

   B. MINIMUM CONDUIT SIZE SHALL BE 50 mm [2 INCHES], OR AS SHOWN ON THE PLANS. LARGER CONDUIT SIZE SHALL BE USED IF REQUIRED BY THE ELECTRICAL CODE.

   C. WHEN CONDUIT IS PLACED BELOW THE ROADWAY OR DRIVEWAYS, IT SHALL BE PLACED IN AN ELECTRICAL CONDUIT SLEEVE, AS SHOWN ON THE PLANS. CONDUIT INSTALLED ADJACENT TO CONDUIT FOR LIGHTING SHALL BE INSTALLED TOGETHER WITH LIGHTING CONDUIT IN SLEEVES OR SHALL BE CONCRETE ENCASED WITH THE LIGHTING CONDUIT AS SHOWN ON THE PLANS. SEE LIGHTING PLANS FOR LOCATION AND SIZE OF ELECTRICAL CONDUIT SLEEVES AND FOR CONCRETE ENCASED DUCTBANK DETAIL.

6. TRAFFIC SIGNAL POSTS/POLES SHALL BE DECORATIVE TO MATCH DECORATIVE LIGHT POLES (SEE LIGHTING PLANS).

7. THE LOCATION/ORIENTATION OF PEDESTRIAN PUSH BUTTONS AND PEDESTRIAN SIGNAL HEADS ARE SHOWN GRAPHICALLY ON THE PLANS. THE ACTUAL INSTALLED LOCATIONS MAY VARY TO PROVIDE OPTIMAL VISIBILITY AND ACCESS. THE INSTALLATION OF PUSH BUTTONS SHALL BE IN ACCORDANCE WITH THE LATEST ADA STANDARDS FOR ACCESSIBLE DESIGN AND SHALL MEET ALL MUTCD REQUIREMENTS.

8. SIGNAL OPERATION

   A. SIGNAL TIMING SHOWN ON THE PLANS MAY REQUIRE FINE-TUNING IN THE FIELD BASED ON TRAFFIC OBSERVATION AND/OR ADDITIONAL FIELD STUDY (COST OF ADJUSTMENTS SHALL BE INCIDENTAL TO OTHER ITEMS).

   B. THE TRAFFIC SIGNALS SHALL NOT OPERATE WITHOUT THE PAVEMENT MARKINGS AND SIGNAL RELATED SIGNING IN PLACE.

9. SIGNAL OPERATION (CONTINUED)

   C. THE SIGNALS SHALL DWELL ON PHASES 2 & 6.

   D. PHASES 2 & 6 SHALL BE USED FOR THE START-UP PHASE FOLLOWING FLASH OPERATION. ALL PHASES WILL START ON ALL RED INDICATION FOR FIVE SECONDS.

   E. SWITCH-OVER TO INSTALLED SIGNAL SYSTEM SHALL NOT OCCUR DURING PEAK TRAFFIC PERIODS. UNIFORMED TRAFFIC OFFICERS SHALL CONTROL TRAFFIC DURING THE SWITCH-OVER.

10. VEHICLE DETECTION

   A. STOP BAR VEHICLE DETECTION AREAS SHALL BE DETERMINED BY THE CONTRACTOR IN ACCORDANCE WITH THE MANUFACTURER'S GUIDANCE FOR THE TYPE OF DETECTOR SUPPLIED. THE CONTRACTOR SHALL SUBMIT PROPOSED MOUNTING LOCATIONS AND DOCUMENTATION OF CONFORMANCE WITH THE MANUFACTURER'S GUIDANCE TO THE ENGINEER FOR APPROVAL.

   B. ALL VEHICLE DETECTORS SHALL BE PLACED SUCH THAT OCCLUSION IS MINIMIZED AND PHASING IS NOT AFFECTED.

   C. STOP BAR VEHICLE DETECTION AREAS SHALL EXTEND 1.5 m (FIVE FEET) PAST THE FINAL, PERMANENT STOP BAR.

   D. VEHICLE DETECTION SYSTEM SHALL BE VIDEO.

   E. THERE SHALL BE NO WIRING SPLICES BETWEEN THE SIGNAL CONTROLLER EQUIPMENT AND THE VEHICLE DETECTORS.

   F. ALL VEHICLE DETECTORS SHALL HAVE FLAT BLACK HOUSING.

   G. SEE LIST OF MAJOR EQUIPMENT ON FOLLOWING SHEET FOR ADDITIONAL INFORMATION.

11. EQUIPMENT MANUALS

   A. COPIES OF ALL EQUIPMENT MANUALS AS WELL AS COMPLETED PROGRAM LISTINGS FOR THE CONTROLLER SHALL BE DISTRIBUTED AS FOLLOWS:

      1. TOWN OF BRANDON
      2. CONTROLLER CABINET
      3. VTRANS TRAFFIC SIGNAL OPERATIONS ENGINEER

12. STREET LIGHTING - SEE LIGHTING PLANS FOR DETAILS.

   A. REFER TO LIGHTING PLANS AND DETAILS FOR LIGHT POLE AND LUMINAIRE REQUIREMENTS. FOLLOW MANUFACTURER'S RECOMMENDATIONS FOR CONNECTING TRAFFIC SIGNAL EQUIPMENT TO DECORATIVE LIGHT POLES.

   B. MAST ARM POLES WITH LIGHTING AS INDICATED ON THE PLANS SHALL HAVE LED LUMINAIRES, INSTALLED AT 9.1 m MOUNTING HEIGHT ABOVE THE ROADWAY SURFACE. LENGTH AND ORIENTATION OF ARM IS SHOWN ON THE LIGHTING PLANS. PAYMENT FOR INSTALLING AND CONNECTING LIGHTING ON MAST ARM POLES IS INCIDENTAL TO ITEM 678.15.

   C. LIGHTING ON MAST ARM POLES SHALL USE THE SAME POWER (DIFFERENT CIRCUIT) AS SIGNALS. WIRING OF THE LUMINAIRES SHALL BE DONE BY THE SIGNAL CONTRACTOR.

13. SIGNAL STRUCTURE FOUNDATIONS

   A. FOUNDATIONS SHALL BE DESIGNED IN ACCORDANCE WITH THE MREI 10-01 GUIDELINES AS REFERENCED ON NEXT SHEET. THE CONTRACTOR SHALL BE RESPONSIBLE FOR FOUNDATION DESIGN. IN ADDITION TO FABRICATION DRAWINGS, THE BORING LOGS, DESIGN CRITERIA, AND DESIGN CALCULATIONS SHALL BE SUBMITTED AS WORKING DRAWINGS IN ACCORDANCE WITH SUBSECTION 105.03. ADDITIONAL DESIGN REQUIREMENTS CAN BE FOUND IN THE TRAFFIC SIGNAL SUPPORT GENERAL NOTES ON THE NEXT SHEET.

14. GENERAL

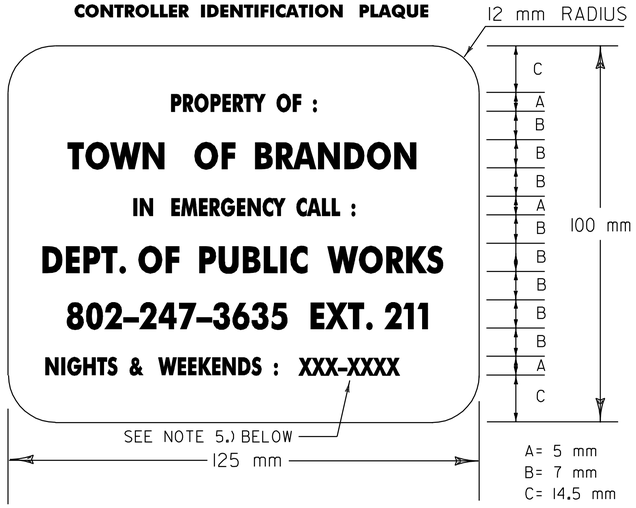
   A. ALL ELECTRICAL WIRING SHALL BE DONE BY A LICENSED ELECTRICIAN AND OVERSEEN BY A MASTER ELECTRICIAN.

   B. THE CONTRACTOR SHALL ACQUIRE ALL NECESSARY PERMITS AND MAKE ALL NECESSARY ARRANGEMENTS WITH THE UTILITY COMPANY TO PROVIDE A PERMANENT POWER SUPPLY TO THE TRAFFIC SIGNAL EQUIPMENT. THE METER SOCKET WILL CONNECT TO THE NEAREST POWER SUPPLY AS SHOWN ON THE PLANS. THE ROUTING OF POWER TO THE INTERSECTIONS SHALL BE SUCH THAT THE TOWN HAS FULL RESPONSIBILITY FROM THE TRANSFORMER THROUGH THE SIGNAL. NO INTERVENING OWNERSHIP/RESPONSIBILITY SHALL BE ALLOWED.

   C. AFTER PROJECT ACCEPTANCE, THE TRAFFIC SIGNAL INSTALLATION SHALL BECOME THE PROPERTY AND RESPONSIBILITY OF THE TOWN OF BRANDON.

   D. AN ID PLAQUE AS DETAILED ON THIS SHEET SHALL BE AFFIXED TO EACH CONTROLLER CABINET.

CONTROLLER IDENTIFICATION PLAQUE



LEGEND: - BLACK (NON-REFL.) - STAMPED PRIOR TO PAINTING
BACKGROUND: NATURAL ALUMINUM OR BRASS SURFACE

NOTES:

1.) THE PLAQUE SHALL BE MOUNTED ON ALL TRAFFIC SIGNAL CONTROLLER CABINETS. IT SHALL BE FASTENED TO THE CONTROLLER CABINET IN SUCH A MANNER AS TO BE NOT EASILY REMOVED, SUCH AS WELDED, RIVETED OR BOLTED WITH VANDAL PROOF BOLTS.

2.) THE LETTERS SHALL BE PUNCHED OR STAMPED. SUCH STAMPING SHALL PENETRATE AT LEAST ½ THE BASE MATERIAL THICKNESS.

3.) THE BASE MATERIAL FOR THE PLAQUE SHALL BE BRASS OR ALUMINUM WITH A MINIMUM THICKNESS OF 2 mm.

4.) CONTRACTOR SHALL COORDINATE WITH THE ENGINEER TO OBTAIN EMERGANCY CONTACT NAME AND NUMBER.

5.) COORDINATE WITH DEPARTMENT OF PUBLIC WORKS DIRECTOR FOR NIGHTS & WEEKENDS TELEPHONE NUMBER.

TRAFFIC SIGNAL GENERAL NOTES

PROJECT NAME: BRANDON
PROJECT NUMBER: NH 019-3(496)

FILE NAME: zb008s6-trf.dgn
PROJECT LEADER: C. BEAN
DESIGNED BY: L. GREER
PLOT DATE: 2/23/2017
DRAWN BY: S. GOODWIN
CHECKED BY: P. KONIECZKA
SHEET 315 OF 601

CLD 02-0448 MODEL:1

ISSUED FOR CONSTRUCTION

VAOT Metric

1. ALL MATERIALS AND CONSTRUCTION SHALL CONFORM TO THE STATE OF VERMONT AGENCY OF TRANSPORTATION "STANDARD SPECIFICATIONS FOR CONSTRUCTION", DATED 2011, WITH CURRENT MODIFICATIONS.

2. OVERHEAD SIGNAL SUPPORTS SHALL CONFORM TO AASHTO'S ''STANDARD SPECIFICATIONS FOR STRUCTURAL SUPPORTS FOR HIGHWAY SIGNS, LUMINAIRES AND TRAFFIC SIGNALS'', DATED 2013 AND ITS LATEST EDITION.

3. THE DESIGN CALCULATIONS SHALL TAKE INTO ACCOUNT THE FOLLOWING CRITERIA:

   STRUCTURE CRITERIA
   - DESIGN LIFE: 50 YEARS
   - WIND LOAD: 40 m/S [90 M.P.H.]

   FATIGUE CRITERIA
   - FATIGUE CATEGORY: I FOR MAST ARM SIGN STRUCTURES, 2 FOR SIGNAL MAST ARMS
   - VORTEX SHEDDING: INCLUDE
   - NATURAL WIND GUSTS: INCLUDE
   - TRUCK INDUCED WIND GUSTS: INCLUDE FOR ROADWAYS WHERE SPEED LIMIT IS 70 Km/H [40 M.P.H.] OR GREATER
   - GALLOPING: DO NOT INCLUDE IN DESIGN CALCULATIONS

   FOUNDATION CRITERIA
   - CONCRETE: CONCRETE, CLASS B, SECTION 541 OF THE SPECIFICATIONS
   - REINFORCING STEEL: SUBSECTION 713.01 OF THE SPECIFICATIONS
   - ALLOWABLE BEARING CAPACITY: CONTRACTOR TO DETERMINE. SEE BORINGS AND ADDITIONAL INFORMATION IN GEOTECHNICAL REPORT
   - INTERNAL SOIL FRICTION ANGLE, Φ : CONTRACTOR TO DETERMINE.

4. ANCHOR BOLTS

   A. GALVANIZED ANCHOR BOLTS WITH TWO HEXAGON NUTS, AND TWO WASHERS PER BOLT SHALL BE FURNISHED WITH EACH POLE. ANCHOR BOLT PLATES, WHEN USED, SHALL ALSO BE GALVANIZED. SEE SUBSECTION 714.09 OF THE SPECIFICATIONS. AFTER INSTALLATION, A MINIMUM IF TWO THREADS ON THE BOLT SHOULD BE EXPOSED ABOVE THE NUT.

   B. ALL BOLTS SHALL BE CHECKED ON THE NUT SIDE AFTER INSTALLATION FOR CONSISTENCY OF PATTERN. ANY STICKOUTS GREATER THAN THE OTHER BOLTS SHALL BE DISCARDED AND REINSTALLED PROPERLY. THE END OF THE PROPERLY INSTALLED BOLT SHALL BE AT LEAST FLUSH WITH THE NUT OR STICK OUT NOT MORE THAN THREE THREADS.

   C. ALL BOLT TIGHTENING SHALL BE TURN-OF-THE-NUT METHOD. ALL BOLTS SHALL BE TIGHTENED TO 1/6 TURN PAST SNUG TIGHT CONDITION FOR BOLTS LESS THAN OR EQUAL TO 38 mm [1-1/2 INCHES] DIAMETER AND 1/12 TURN PAST SNUG TIGHT CONDITION FOR BOLTS GREATER THAN 38 mm [1-1/2" INCHES] DIAMETER.

5. FLANGE BOLTS

   ALL FLANGE BOLTS AND HEX NUTS SHALL BE HIGH STRENGTH STEEL AND SHALL CONFORM TO ASTM A325M. THE FLANGE BOLTS SHALL BE CAPABLE OF RESISTING 133% OF THE FULL DESIGN STRESS OF THE TUBE AT ITS YIELD STRENGTH STRESS.

6. HORIZONTAL AND VERTICAL MEMBERS

   STEEL TUBES SHALL BE FORMED AND WELDED WITH ONE CONTINUOUS LONGITUDINAL WELD ONLY. AFTER FORMING AND WELDING THEY SHALL BE COLD ROLLED TO ENSURE UNIFORMITY OF SIZE AND SMOOTHNESS OF WELD. THEY SHALL HAVE A MINIMUM YIELD STRENGTH OF 330 MPa (55 KSI). THERE SHALL BE NO TRANSVERSE WELDING EXCEPT AT THE FLANGE CONNECTIONS AND POLE BASE PLATES, WHERE THE TUBES SHALL TELESCOPE THE FLANGES AND PLATES AND BE CONTINUOUSLY WELDED BOTH SIDES INSIDE AND OUT TO WITHSTAND THE FULL TRANSFER OF THE BENDING STRENGTH TO THE BOLTS. OPTIONALLY, THE MEMBERS MAY BE A SERIES OF TWO OR THREE DIFFERENT DIAMETER PIPES WELDED TOGETHER. STEEL TUBES SHALL BE CONSTRUCTED FROM MATERIALS CONFORMING TO SECTION 752.02.

7. GALVANIZING

   ALL STEEL COMPONENTS, EXCEPT CONCRETE REINFORCING, ARE TO BE HOT DIPPED GALVANIZED AFTER FABRICATION. THE ASSEMBLIES SHALL BE DESIGNED AND FABRICATED TO PERMIT GALVANIZING ON ALL INTERIOR AND EXTERIOR SURFACES AND SHALL BE FREE OF POCKETS AND OTHER STRUCTURAL OBSTRUCTIONS THAT WILL NOT PERMIT PROPER DEPOSITION OF ZINC COATING. GALVANIZING SHALL BE IN ACCORDANCE WITH SECTION 752.02.

8. WELDING

   A. ALL WELDING SHALL BE PERFORMED PER SUBSECTION 506.10.

   B. ALL WELDS SHALL BE AT LEAST AS STRONG AS THE MATERIAL(S) BEING WELDED.

9. FOUNDATIONS

   A. FOOTINGS SHALL BE DESIGNED IN ACCORDANCE WITH VTRANS MATERIALS & RESEARCH ENGINEERING INSTRUCTIONS - GEOTECHNICAL DESIGN PROCEDURES FOR MAST ARM AND OVERHEAD SIGN SUPPORT FOUNDATIONS (MREI 10-01), DATED MARCH 9, 2010, A COPY OF WHICH CAN BE FOUND ON THE AGENCY WEBSITE: WWW.VTRANS.VERMONT.GOV.

   B. FOUNDATIONS SHALL BE CONSTRUCTED IN ACCORDANCE WITH THE FOLLOWING NOTES:

      1. A MINIMUM EMBEDMENT DEPTH OF 1.5 m (FIVE FEET) SHALL BE USED FOR ALL SPREAD FOOTING FOUNDATIONS; MEASURED FROM THE GROUND SURFACE ELEVATION TO THE BOTTOM OF THE FOOTING ELEVATION.

      2. EXCEPT FOR THE UPPERMOST 0.6 m (TWO FEET) OF SOIL, DRILLED SHAFT FOUNDATIONS SHALL BE POURED AGAINST UNDISTURBED MATERIAL; THE TOP 0.6 m (TWO FEET) OF SOIL SHALL BE NEGLECTED FOR DESIGN PURPOSES. A DISPOSABLE CIRCULAR CONCRETE FORM, IF USED, SHALL NOT BE PLACED DEEPER THAN 0.6 m, IN ORDER TO NOT REDUCE THE FRICTION BETWEEN THE SOIL AND THE CONCRETE.

      3. AS AN ALTERNATIVE TO THE DRILLED HOLES, FOOTINGS MAY BE POURED IN EXCAVATED HOLES USING THE PROPER FORMS, WHICH MUST BE REMOVED. THE EXCAVATED HOLES SHALL BE AT LEAST 0.6 m (TWO FEET) CLEAR OF THE FOUNDATION SIDES AND 0.3 m (ONE FOOT) DEEPER THAN THE FOUNDATION. CARE SHALL BE TAKEN TO AVOID EXCAVATING AROUND THE TOP OF THE FOUNDATION. THE BACKFILL MATERIAL SHALL BE COMPACTED AS DESCRIBED IN SUBSECTION 204.08. DESIGN LIMITS AS FOR AUGURED FOOTINGS APPLIES.

      4. ANY BACKFILL PLACED ADJACENT TO THE FOOTING SHALL BE GRANULAR MATERIAL MEETING THE REQUIREMENTS FOR GRANULAR BACKFILL FOR STRUCTURES, SUBSECTION 704.08. IT SHALL BE COMPACTED AS DESCRIBED IN SUBSECTION 204.08.

      5. CONCRETE FOR THE FOUNDATION SHALL CONFORM TO THE REQUIREMENTS OF CONCRETE, SECTION 541 STRUCTURAL CONCRETE. IF DRILLED SHAFT FOUNDATIONS ARE REQUIRED, THE CONCRETE SPECIFICATIONS MAY NEED TO BE ADJUSTED FOR CONSTRUCTABILITY ISSUES. HOWEVER, IF REQUIRED, THE CONTRACTOR SHALL SUBMIT ANY CHANGES TO THE CONCRETE SPECIFICATION FOR REVIEW BY THE PROJECT MANAGER.

      6. STEEL PILES SHALL MEET THE REQUIREMENTS OF SECTION 505.

      7. WHEN THE DESIGN DEPTH OF A FOUNDATION CANNOT BE OBTAINED DUE TO UNFORESEEN FIELD CONDITIONS, THE CONTRACTOR SHALL NOTIFY THE ENGINEER FOR THE MANUFACTURER TO OBTAIN A REVISED FOUNDATION DESIGN. SUCH A REVISION SHALL BE SUBMITTED TO THE PROJECT MANAGER AND MAY REQUIRE UP TO A FOUR WEEK REVIEW PERIOD BY THE PROJECT MANAGER.

   C. SIGNALS/SIGNS SHALL BE INSTALLED AND LEVELED AND POLES SHALL BE PLUMB PRIOR TO PLACING GROUT UNDER POLE BASE. GROUT MATERIAL SHALL BE NON-SHRINKING MORTAR CONFORMING TO SUBSECTION 707.03, MORTAR TYPE IV.

10. EACH OVERHEAD TRAFFIC SIGNAL/SIGN SUPPORT SHALL BE GROUNDED. THE GROUND SHALL CONSIST OF THE FOLLOWING:

    A. AN INTERNAL GROUND LUG OPPOSITE THE HAND HOLE.

    B. A 13.30 mm^2 (#6) (MIN.) SOFT DRAWN COPPER GROUNDING ELECTRODE CONDUCTOR.

    C. A 16 mm X 2.4 m (5/8" X 8') (MIN.) COPPER CLAD GROUNDING ELECTRODE. THE RESISTANCE TO GROUND SHALL BE 25 OHMS OR LESS. ADDITIONAL GROUNDING ELECTRODES MAY BE REQUIRED (MINIMUM SPACING SHALL BE 1.8 m). WHERE A POWER SERVICE, METER AND DISCONNECT ARE ATTACHED TO A POLE, THERE SHALL BE A CONTINUOUS GROUND WIRE FROM THE METER AND DISCONNECT WHICH MAY RUN INTERNAL TO THE UPRIGHT, THROUGH THE 12.5 mm (DN16) FLEXIBLE TUBING IN THE CONCRETE BASE TO THE REQUIRED GROUNDING ELECTRODE(S). THE GROUND WIRE FROM THE POLE GROUNDING LUG, CONTROLLER CABINET AND/OR LUMINAIRE MAY ATTACH TO THIS CONTINUOUS GROUNDING ELECTRODE CONDUCTOR FROM THE SERVICE METER AND DISCONNECT. THE CONTRACTOR SHALL PERFORM A RESISTANCE TO GROUND TEST ON THE CONTINUOUS GROUNDING ELECTRODE CONDUCTOR FROM THE SERVICE METER AND DISCONNECT AND PROVIDE A WRITTEN STATEMENT TO THE AREA ELECTRICAL INSPECTOR THAT THE GROUNDING ELECTRODE CONDUCTOR IS CONTINUOUS FROM THE SERVICE METER AND DISCONNECT AND THE RESISTANCE TO GROUND IS 25 OHMS OR LESS.

11. HORIZONTAL MEMBERS SHALL BE CAMBERED AND THE VERTICAL POLES BACK-RAKED, WHERE APPLICABLE, TO THE ANTICIPATED DEAD LOAD DEFLECTION PLUS THE CAMBER, IF ANY, SPECIFIED ON THE PLANS.

12. AN EQUIVALENT ALTERNATE DESIGN MAY BE SUBSTITUTED FOR THE DETAILS AND MATERIALS SHOWN.

13. THE DETAILS OF DESIGN FOR THE STRUCTURE AND FOUNDATION ARE TO BE SUPPLIED BY THE CONTRACTOR AND/OR BY THE MANUFACTURER. THE STRUCTURE SHALL BE DESIGNED TO RESIST THE MAXIMUM LOADING AS OUTLINED IN THE AASHTO STANDARD SPECIFICATIONS (SEE NOTE 2). ALL DESIGN CALCULATIONS FOR THE STRUCTURE AND THE FOUNDATION SHALL BE CHECKED AND STAMPED BY A LICENSED PROFESSIONAL ENGINEER REGISTERED IN THE STATE OF VERMONT PRIOR TO SUBMITTAL OF THE FABRICATION DRAWINGS TO THE PROJECT MANAGER.

14. DESIGN CALCULATIONS IN A DIGITAL FORMAT SHALL BE SUBMITTED TO THE PROJECT MANAGER SHOWING THE FOLLOWING INFORMATION FOR EACH OF THE VERTICAL AND HORIZONTAL COMPONENTS OF THE STRUCTURE AND FOUNDATION:

    A. THE DESIGN AXIAL AND SHEAR FORCES AND BENDING AND TORSIONAL MOMENTS ACTING AT THE TOP OF THE FOUNDATION.

    B. THE DESIGN AXIAL, BENDING AND SHEAR STRESSES AND THE COMBINED STRESS RATIO.

    C. VIBRATION AND FATIGUE CALCULATIONS AS SET FORTH IN SECTION 11 OF THE AASHTO PUBLICATION REFERENCED IN NOTE 2.

    D. THE ALLOWABLE AXIAL, BENDING, AND SHEAR STRESSES.

    E. ITEMS A, B AND D SHALL BE SHOWN FOR EACH OF THE GROUP LOADINGS (I, II AND III) AND FOR THE BASIC WIND LOAD APPLIED TO THE TWO CASES OUTLINED IN THE AASHTO STANDARD SPECIFICATIONS REFERENCED IN NOTE 2.

    F. FAILURE TO SUPPLY THE PROPER DESIGN INFORMATION SHALL BE CAUSE FOR REJECTION OF THE STRUCTURE.

    G. A MINIMUM OF FOUR WEEKS SHALL BE REQUIRED FOR REVIEW BY THE PROJECT MANAGER.

    H. EVERY MEMBER AND CONNECTION IN AN OVERHEAD TRAFFIC SIGNAL SUPPORT SHALL BE DESIGNED TO PROVIDE ADDITIONAL RESIDUAL CAPACITY FOR FUTURE MODIFICATION EQUIVALENT TO A 5-SECTION TRAFFIC SIGNAL HEAD WITH A 125 mm (FIVE INCH) COVERED BACK PLATE LOCATED ON THE OUTER MOST EXTENT OF THE MAST ARM.

15. FABRICATION DRAWINGS IN A DIGITAL FORMAT SHALL BE SUBMITTED TO THE PROJECT MANAGER FOR APPROVAL PRIOR TO FABRICATION. THE FABRICATION DRAWINGS SHALL INCLUDE THE FOLLOWING INFORMATION:

    A. DETAILED DRAWING OF EACH COMPONENT OF THE STRUCTURE.

    B. MATERIAL SPECIFICATION FOR EACH COMPONENT OF THE STRUCTURE, EITHER BY COMPLETE SPECIFICATION OR REFERENCE TO APPLICABLE ASTM STANDARDS.

    C. NOTATION OF PROJECT NAME, PROJECT NUMBER, ROUTE NUMBER AND STRUCTURE STATIONING TO BE INCLUDED ON EACH SHEET.

    D. DETAILS FOR LOCATION OF SIGNS/SIGNALS AND ATTACHMENT HARDWARE FOR THE SUPPORT STRUCTURE.

    E. ALL ELEVATIONS AND DIMENSIONS NECESSARY TO PROVIDE A COMPLETE SET OF RECORD PLANS.

    F. DEAD LOAD DEFLECTION AND CAMBER INFORMATION.

    G. WELDING DETAILS AND PROCEDURES ARE REQUIRED FOR ALL WELDS. PROCEDURES SHALL BE SUBMITTED FOR APPROVAL WITH REFERENCE TO EACH WELD IDENTIFIED ON THE FABRICATION DRAWINGS. SEE SUBSECTION 506.10.

    H. BOLT TENSIONING REQUIREMENTS.

16. THE TRAFFIC SIGNALS SHALL BE MOUNTED TO THE ARM OR POLE USING A FIXED MOUNT SYSTEM, UNLESS OTHERWISE NOTED ON THE CROSS SECTION SHEET. FOR SIGNALS MOUNTED ON A MAST ARM, THE MAST ARM AND MOUNTING POINT SHALL BE IN THE MIDDLE OF THE SIGNAL HEAD.

17. BASE PLATES SHALL BE STAMPED WITH THE VERTICAL POLE DIAMETER, HEIGHT, YIELD STRENGTH, GAUGE AND THE HORIZONTAL MEMBER DIAMETER, LENGTH, YIELD STRENGTH AND GAUGE. ALTERNATELY, THE INFORMATION MAY BE STAMPED ON A METAL TAG RIVETED TO THE POLE NEAR THE HANDHOLE.

18. SEE STANDARD E-17IA FOR ADDITIONAL NOTES.

19. THE CONTRACTOR SHALL SCHEDULE FINAL INSPECTION AND OBTAIN WRITTEN APPROVAL OF WORK FROM THE ENGINEER.

20. THE COST OF SIGNAL SUPPORTS, INCLUDING POLES, MAST ARMS, FOOTINGS AND ALL ASSOCIATED HARDWARE, SIGN BRACKETS, FOOTINGS AND LUMINAIRE ARMS SHALL BE INCLUDED IN THE UNIT BID PRICE FOR ITEM 678.15. THESE COMPONENTS SHALL CONFORM TO ALL APPLICABLE PROVISIONS OF SECTIONS 678 AND 679.

TRAFFIC SIGNAL SUPPORT GENERAL NOTES

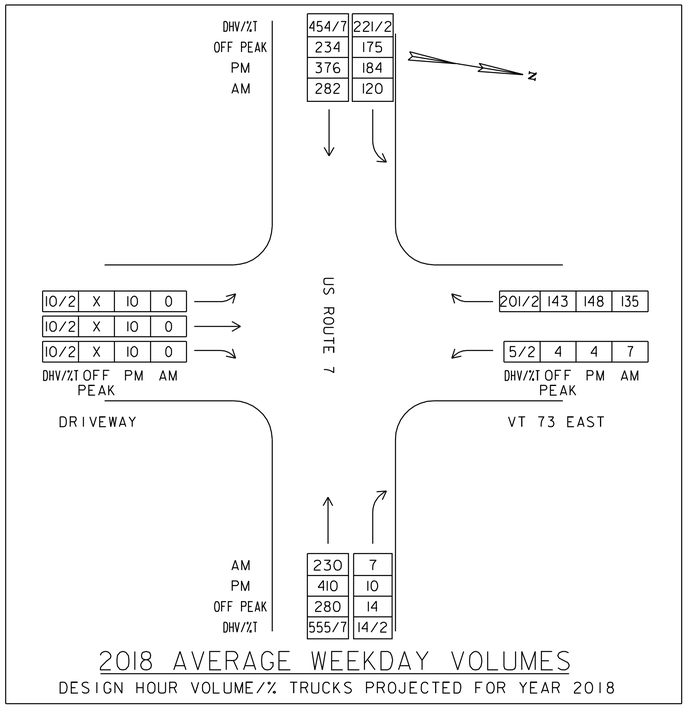
PROJECT NAME: BRANDON
PROJECT NUMBER: NH 019-3(496)

FILE NAME: zb008s6-trf.dgn
PROJECT LEADER: C. BEAN
DESIGNED BY: L. GREER
PLOT DATE: 2/23/2017
DRAWN BY: S. GOODWIN
CHECKED BY: P. KONIECZKA
SHEET 316 OF 601

CLD 02-0448 MODEL: IA

ISSUED FOR CONSTRUCTION

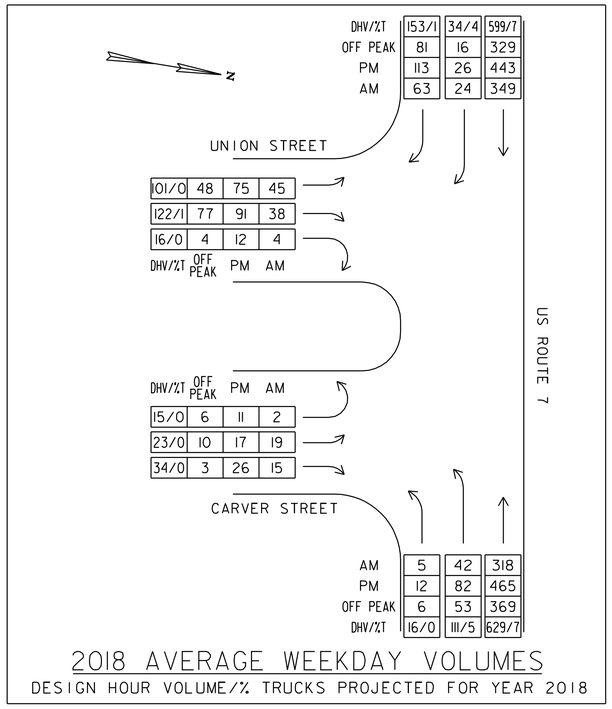
US 7 AND VT 73 EAST



2018 AVERAGE WEEKDAY VOLUMES

DESIGN HOUR VOLUME/% TRUCKS PROJECTED FOR YEAR 2018

US 7 AND UNION / CARVER STREETS



2018 AVERAGE WEEKDAY VOLUMES

DESIGN HOUR VOLUME/% TRUCKS PROJECTED FOR YEAR 2018

US 7 AND VT 73 EAST

LIST OF MAJOR EQUIPMENT

ITEM NO.	ITEM	QUANTITY
678.15*	TRAFFIC CONTROL SIGNAL SYSTEM - INTERSECTION	
	9.1m SIGNAL MAST ARM POLES W/ LUMINAIRE (1-8 m ARM, 2-10.6 m ARMS)	3 EA.
	3.0 m PEDESTAL POST	2 EA.
	ONE-WAY 3 SECTION TRAFFIC SIGNAL HEAD - MAST ARM MOUNT	6 EA.
	ONE-WAY 4 SECTION TRAFFIC SIGNAL HEAD - MAST ARM MOUNT	1 EA.
	ONE-WAY 3 SECTION TRAFFIC SIGNAL HEAD - POST TOP MOUNT	3 EA.
	ONE SECTION, BI-MODAL PEDESTRIAN SIGNAL HEAD - BRACKET MOUNT	4 EA.
	ONE SECTION, BI-MODAL PEDESTRIAN SIGNAL HEAD - POST TOP MOUNT	N/A
	ACCESSIBLE PEDESTRIAN PUSH BUTTON ASSEMBLIES	3 EA.
	PEDESTRIAN SIGNALS	3 EA.
	CONTROLLER/CABINET W/ANCILLARY EQUIPMENT	1 EA.
	METER (MOUNTED ON CABINET)	1 EA.
	CAMERA EXTENSION BRACKET	4 EA.
	CAMERA ASSEMBLY	4 EA.
	VIDEO INTERFACE PANEL	1 EA.
	TYPE A REGULATORY SIGNS - MAST/POST MOUNTED	
	- NO TURN ON RED	1 EA.
	- LEFT TURN YIELD ON GREEN BALL	2 EA.
678.21	ELECTRICAL CONDUIT (50 mm) (SCHEDULE 80) - FOR SIGNAL SPARE	168 m
678.23	WIRED CONDUIT (50 mm) (SCHEDULE 80)	251.0 m
900.620**	SPECIAL PROVISION (JUNCTION BOX, HEAVY DUTY)	5 EA.

US 7 AND UNION / CARVER STREETS

LIST OF MAJOR EQUIPMENT

ITEM NO.	ITEM	QUANTITY
678.15*	TRAFFIC CONTROL SIGNAL SYSTEM - INTERSECTION	
	9.1m SIGNAL MAST ARM POLES W/ LUMINAIRE (1-11.6 m ARM, 1-10.6 m ARM)	2 EA.
	X.X m SIGNAL MAST ARM POLE (1-3 m ARM)	1 EA.
	2.4 m PEDESTAL POST	1 EA.
	ONE-WAY 3 SECTION TRAFFIC SIGNAL HEAD - MAST ARM MOUNT	8 EA.
	ONE-WAY 3 SECTION TRAFFIC SIGNAL HEAD - BRACKET MOUNT	2 EA.
	ONE-WAY 3 SECTION TRAFFIC SIGNAL HEAD - POST TOP MOUNT	1 EA.
	ONE SECTION, BI-MODAL PEDESTRIAN SIGNAL HEAD - BRACKET MOUNT	5 EA.
	ONE SECTION, BI-MODAL PEDESTRIAN SIGNAL HEAD - POST TOP MOUNT	1 EA.
	ACCESSIBLE PEDESTRIAN PUSH BUTTON ASSEMBLIES	5 EA.
	PEDESTRIAN SIGNALS	5 EA.
	CONTROLLER/CABINET W/ANCILLARY EQUIPMENT	1 EA.
	METER (MOUNTED ON LIGHTING PANELBOARD - SEE LIGHTING PLANS)	
	CAMERA EXTENSION BRACKET	4 EA.
	CAMERA ASSEMBLY	4 EA.
	VIDEO INTERFACE PANEL	1 EA.
	TYPE A REGULATORY SIGNS - MAST/POST MOUNTED	
	- NO TURN ON RED	3 EA.
	- LEFT ON GREEN ARROW ONLY	1 EA.
678.21	ELECTRICAL CONDUIT (50 mm) (SCHEDULE 80) - FOR SIGNAL SPARE	200 m
678.23	WIRED CONDUIT (50 mm) (SCHEDULE 80)	310 m
900.620**	SPECIAL PROVISION (JUNCTION BOX, HEAVY DUTY)	10 EA.

*THE QUANTITIES LISTED ABOVE ARE APPROXIMATE AND ARE FURNISHED FOR INFORMATION ONLY. ANY ITEM NOT LISTED BUT REQUIRED AS PART OF THE SIGNAL SYSTEM DESIGN SHALL BE CONSIDERED INCIDENTAL TO ITEM 678.15. THE CONTRACTOR IS RESPONSIBLE TO PROVIDE FOR THE SIGNAL SYSTEM DESIGN AS SHOWN.

**SEE LIGHTING DETAILS FOR JUNCTION BOX DETAIL.

TRAFFIC SIGNAL LIST OF MAJOR EQUIPMENT AND TRAFFIC VOLUMES

PROJECT NAME: BRANDON
PROJECT NUMBER: NH 019-3(496)

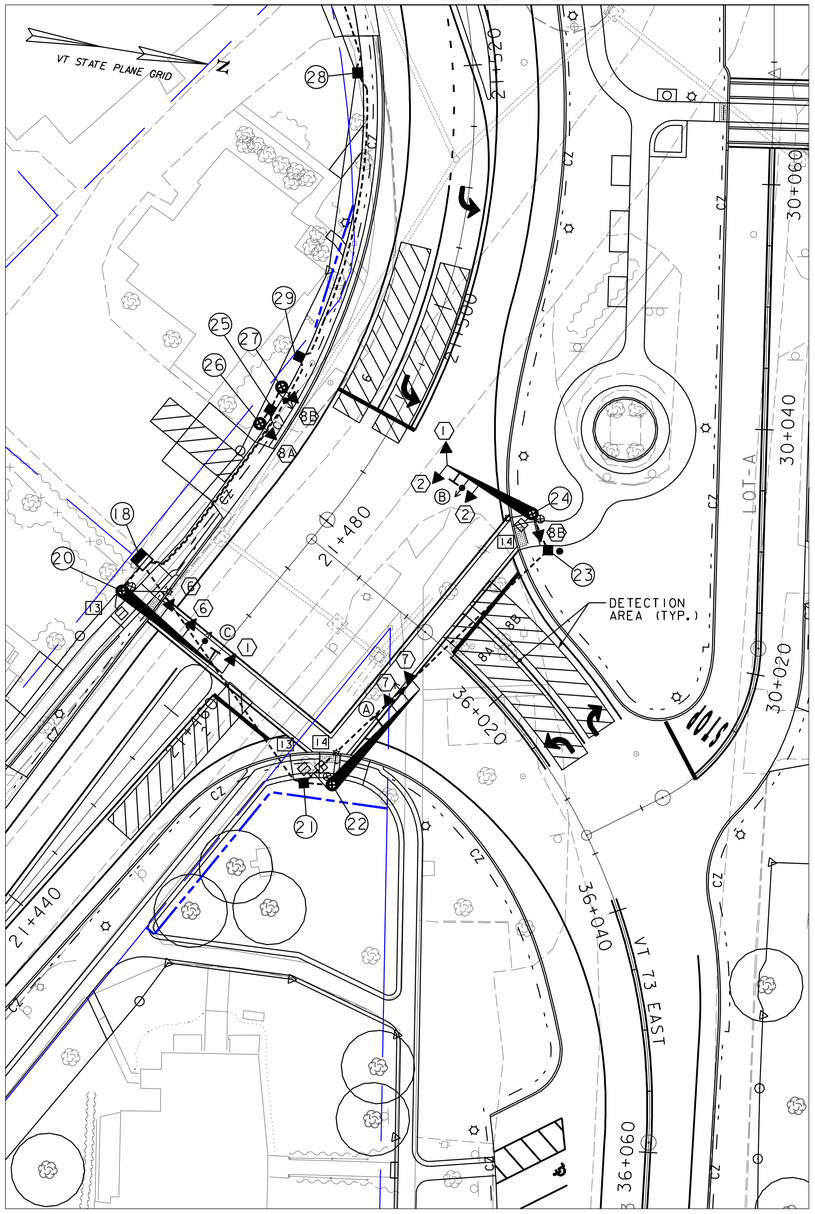
FILE NAME: zb008s6-trf.dgn
PROJECT LEADER: C. BEAN
DESIGNED BY: L. GREER
PLOT DATE: 2/23/2017
DRAWN BY: S. GOODWIN
CHECKED BY: P. KONIECZKA
SHEET 317 OF 601

CLD 02-0448 MODEL: 2

ISSUED FOR CONSTRUCTION

VAOT Metric

SEE NEXT SHEET



US 7 AND VT 73 EAST

COORDINATION/SIGNAL PHASING DATA

COORDINATION PLAN	MON-FRI	SATURDAY	SUNDAY
PLAN 1 OFF PEAK/FREE OPERATION MAX 1	0000-0600 0800-1400 1800-2400	0000-2400	0000-2400
PLAN 2 COORDINATED PATTERN 110" CYCLE (AM)	0600-0800	--	--
PLAN 3 COORDINATED PATTERN 105" CYCLE (PM)	1400-1800	--	--

SIGNAL PHASING
(ALL ENTRIES BELOW ARE IN SECONDS)

PHASE	01	02	03	04	05	06	07	08	09
INTIAL	8	10	--	--	--	10	8	8	--
VEHICLE EXT.	3	3	--	--	--	3	3	3	--
MAX. 1	15	22	--	--	--	33	15	15	--
MAX. 2	--	•	--	--	--	•	•	•	--
YELLOW	3.5	3.5	--	--	--	3.5	3.5	3.5	--
RED	4	2	--	--	--	2	4	3	--
RECALL	OFF	SOFT	--	--	--	SOFT	OFF	OFF	OFF
WALK	--	--	--	--	--	--	--	--	7
CLEAR	--	--	--	--	--	--	--	--	16

• - coordinated operation, see table below.

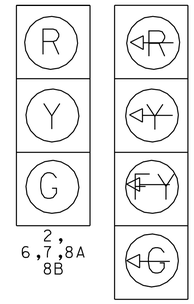
DAILY AND WEEKLY COORDINATION PROGRAM

	PLAN 1		PLAN 2		PLAN 3		--		--
CYCLE LENGTH	FREE		110		105		--		--
OFFSET	--		4		0		--		--
SPLIT TIME 01	--		17		14		--		--
SPLIT TIME 02	--		37		35		--		--
SPLIT TIME 03	--		--		--		--		--
SPLIT TIME 04	--		15		15		--		--
SPLIT TIME 05	--		--		--		--		--
SPLIT TIME 06	--		54		49		--		--
SPLIT TIME 07	--		15		15		--		--
SPLIT TIME 08	--		18		18		--		--
SPLIT TIME 09	--		23		23		--		--

COORDINATION/TIMING NOTES:

1. ALL SPLITS INCLUDE GREEN INTERVAL AND CLEARANCES.
2. OFFSET REFERENCES THE BEGINNING OF GREEN PHASES 2+6 AT THE INTERSECTION OF UNION STREET (MASTER).
3. CONTROLLER SHALL NOT FALL OUT OF COORDINATION TO SERVICE PHASE 9 (EXCLUSIVE PED PHASE) WHEN ACTUATED. CONTROLLER SHALL OPERATE UNDER A SINGLE YIELD POINT AND NON-COORDINATED PHASES SHALL HAVE INHIBIT MAX. SET TO 'YES'.

SIGNAL HEADS
300mm LENSES, LED LAMPS



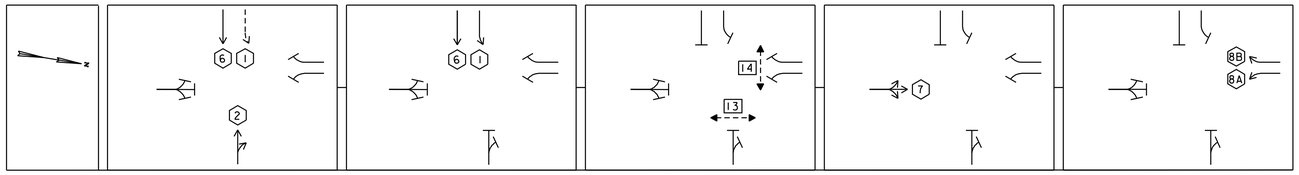
400mm X 450mm LED COUNTDOWN SYMBOLIC BI-MODAL, PED. SIGNALS

SIGN A TO BE MOUNTED ON MAST ARM AT LOC. 22
R10-11A (750mm X 900mm)

(SEE SIGNING DETAIL SHEET)

R10-3e "PUSH BUTTON SIGN"

SIGN B TO BE MOUNTED ADJACENT TO SIGNAL HEAD ON MAST ARM AT LOC. 24
R3-2 (750mm X 900mm)



SYMBOLS

----► = PERMISSIVE MOVEMENT
(X) = TRAFFIC SIGNAL FACE
[XX] = PED SIGNAL FACE
◄---► = EXCLUSIVE PED. PHASE

EQUIPMENT LOCATIONS

LOC.	TYPE	STATION	OFFSET	NOTES
18	CC	21+468.0	9.35 LT	CONTROLLER AND CABINET
19				NOT USED
20	MA	21+465.0	9.30 LT	TRAFFIC SIGNAL POLE W/ PED. SIGNAL AND PUSH BUTTON ASSEMBLY WITH SIGN AND LUMINAIRE AND 10.6 m MAST ARM WITH CAMERA
21	JB	21+462.3	12.11 RT	JUNCTION BOX
22	MA	36+014.8	14.41 RT	TRAFFIC SIGNAL POLE W/ TWO PED. SIGNALS AND PUSH BUTTON ASSEMBLY WITH SIGN AND LUMINAIRE AND 10.6 m MAST ARM WITH CAMERA
23	JB	36+014.9	11.63 LT	JUNCTION BOX
24	MA	21+488.9	13.54 RT	TRAFFIC SIGNAL POLE W/ PED. SIGNAL AND PUSH BUTTON ASSEMBLY WITH SIGN AND LUMINAIRE AND 10.6 m MAST ARM WITH CAMERA
25	JB	21+485.0	9.10 LT	JUNCTION BOX
26	SP	21+483.2	9.17 LT	SIGNAL PEDESTAL POLE WITH SIGNAL
27	SP	21+487.4	9.34 LT	SIGNAL PEDESTAL POLE WITH SIGNAL AND CAMERA
28	JB	21+520.0	9.40 LT	JUNCTION BOX (INTERCONNECT)
29	JB	21+490.9	9.29 LT	JUNCTION BOX (INTERCONNECT)

⚠ RUN INCLUDES ELECTRICAL CONDUIT SLEEVE UNDER ROADWAY OR DRIVEWAY. SEE LIGHTING PLANS FOR LOCATION AND SIZE OF CONDUIT SLEEVE.

WIRED CONDUIT (SIGNAL/VIDEO) ELECTRICAL CONDUIT (SPARE) (SCHEDULE 80)		LENGTH (m)		
		SIGNAL	VIDEO	SPARE
FROM	TO	DIA 50 mm	DIA 50 mm	DIA 50 mm
CC 18	MA 20	2.91	2.91	2.91
⚠ CC 18	JB 21	22.54	22.54	22.54
JB 21	MA 22	2.61	2.61	2.61
⚠ JB 21	JB 23	29.51	29.51	29.51
JB 23	MA 24	3.52	3.52	3.52
⚠ CC 18	JB 25	17.02	17.02	17.02
JB 25	SP 26	1.73	1.73	1.73
JB 25	SP 27	2.35	2.35	2.35
JB 32 (NEXT SHT)	JB 28	35.69	-	35.69
JB 28	JB 29	26.75	-	26.75
JB 29	CC 18	22.22	-	22.22
	SUBTOTAL	166.85	82.19	166.85
	ROUNDING	1.15	0.81	1.15
	TOTAL	168	83	168

NEW	LEGEND
	UTILITY POLE
	LUMINAIRE •
	OVERHEAD LIGHT / POLE
	PEDESTAL LIGHT POLE
	MAST ARM/POLE
	CONTROLLER CABINET
	JUNCTION BOX
	SIGNAL HEAD
	CONDUIT
	VEHICLE DETECTION AREA
	PEDESTAL POST
	STANCHION**
—S	SWEEP
	PUSH BUTTON & SIGN
	PEDESTRIAN SIGNAL HEAD
	SIGN
	VEHICLE DETECTOR***

0 10 20 30
SCALE IN METERS

• PROVIDE BRACKET ARMS FOR OVERHEAD LIGHTS WITH ARM LENGTHS AND ORIENTATION AS INDICATED ON THE LIGHTING PLANS.

** NO STANCHION. METER MOUNTED ON CABINET (E-17IB). SEE UTILITY RELOCATION PLANS FOR LOCATION OF POWER SOURCE.

***LOCATION OF VEHICLE DETECTORS SHOWN FOR REFERENCE ONLY. TO BE INSTALLED PER MANUFACTURER'S SPECIFICATIONS.

TRAFFIC SIGNAL LAYOUT US 7 AND VT 73 EAST

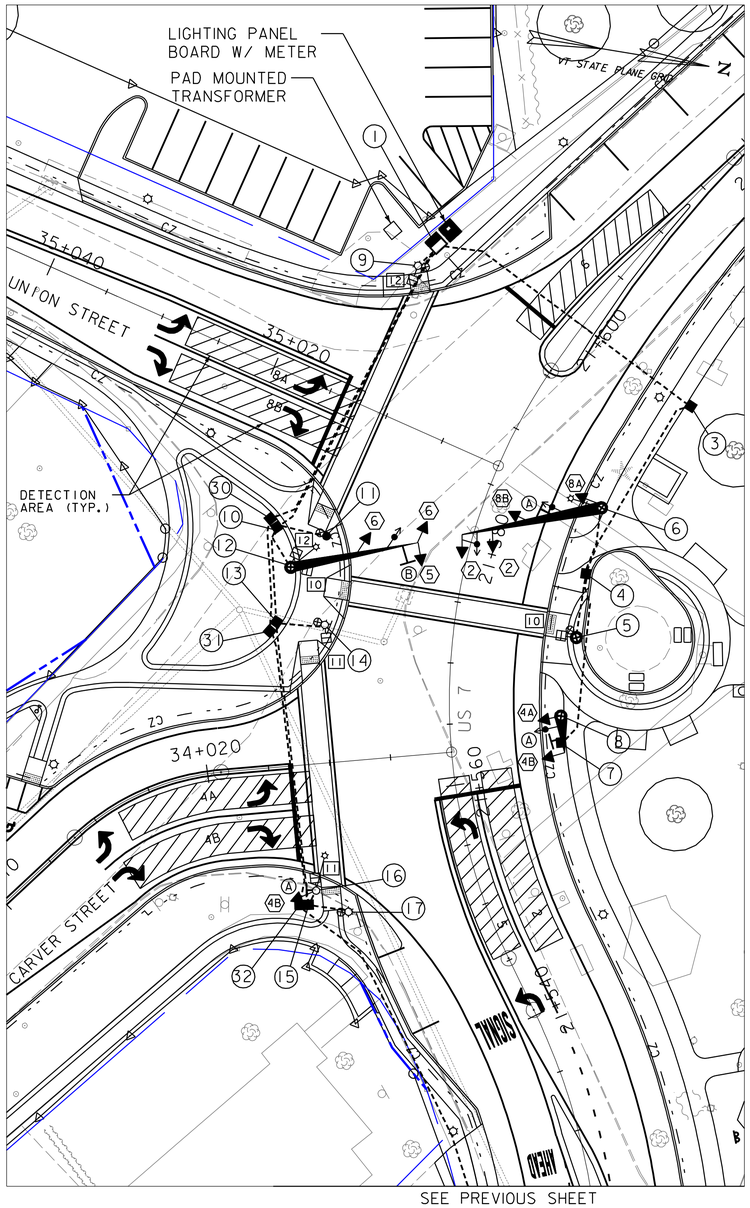
PROJECT NAME: BRANDON
PROJECT NUMBER: NH 019-3(496)

FILE NAME: zb008s6-trf.dgn
PROJECT LEADER: C. BEAN
DESIGNED BY: L. GREER
PLOT DATE: 2/23/2017
DRAWN BY: S. GOODWIN
CHECKED BY: P. KONIECZKA
SHEET 318 OF 601

CLD 02-0448 MODEL: 3

ISSUED FOR CONSTRUCTION

VAOT Metric



US 7 AND UNION /CARVER STREETS

COORDINATION/SIGNAL PHASING DATA

COORDINATION PLAN	MON-FRI	SATURDAY	SUNDAY
PLAN 1 OFF PEAK/FREE OPERATION MAX 1	0000-0600 0800-1400 1800-2400	0000-2400	0000-2400
PLAN 2 COORDINATED PATTERN 110" CYCLE (AM)	0600-0800	--	--
PLAN 3 COORDINATED PATTERN 105" CYCLE (PM)	1400-1800	--	--

SIGNAL PHASING
(ALL ENTRIES BELOW ARE IN SECONDS)

PHASE	Ø1	Ø2	Ø3	Ø4	Ø5	Ø6	Ø7	Ø8	Ø9
INTIAL	--	10	--	8	8	10	--	8	--
VEHICLE EXT.	--	3	--	3	3	3	--	3	--
MAX. 1	--	32	--	15	15	20	--	15	--
MAX. 2	--	•	--	•	•	•	--	•	--
YELLOW	--	3.5	--	3.5	3.5	3.5	--	3.5	--
RED	--	3	--	4.5	4	3	--	4	--
RECALL	--	SOFT	--	OFF	OFF	SOFT	--	OFF	OFF
WALK	--	--	--	--	--	--	--	--	7
CLEAR	--	--	--	--	--	--	--	--	16

• - coordinated operation, see table below.

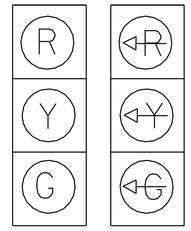
DAILY AND WEEKLY COORDINATION PROGRAM

	PLAN 1		PLAN 2		PLAN 3		--		--
CYCLE LENGTH	FREE		110		105		--		--
OFFSET	--		0		0		--		--
SPLIT TIME Ø1	--		--		--		--		--
SPLIT TIME Ø2	--		44.5		50		--		--
SPLIT TIME Ø3	--		--		--		--		--
SPLIT TIME Ø4	--		16		16.5		--		--
SPLIT TIME Ø5	--		15.5		13		--		--
SPLIT TIME Ø6	--		29		37		--		--
SPLIT TIME Ø7	--		--		--		--		--
SPLIT TIME Ø8	--		26.5		15.5		--		--
SPLIT TIME Ø9	--		23		23		--		--

COORDINATION/TIMING NOTES:

1. ALL SPLITS INCLUDE GREEN INTERVAL AND CLEARANCES.
2. OFFSET REFERENCES THE BEGINNING OF GREEN PHASES 2+6 AT THIS MASTER INTERSECTION.
3. CONTROLLER SHALL NOT FALL OUT OF COORDINATION TO SERVICE PHASE 9 (EXCLUSIVE PED PHASE) WHEN ACTUATED. CONTROLLER SHALL OPERATE UNDER A SINGLE YIELD POINT AND NON-COORDINATED PHASES SHALL HAVE INHIBIT MAX. SET TO 'YES'.

SIGNAL HEADS
300mm LENSES, LED LAMPS



2,4A,4B, 6,8A,8B — 5

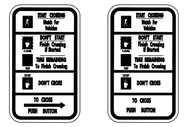
400mm X 450mm LED COUNTDOWN SYMBOLIC BI-MODAL, PED. SIGNALS

10 , 11 , 12

SIGN A TO BE MOUNTED ON LIGHT POLE AT LOC. 16 AND MAST ARMS AT LOC. 6&8. R10-11A (750mm X 900mm)

(A)

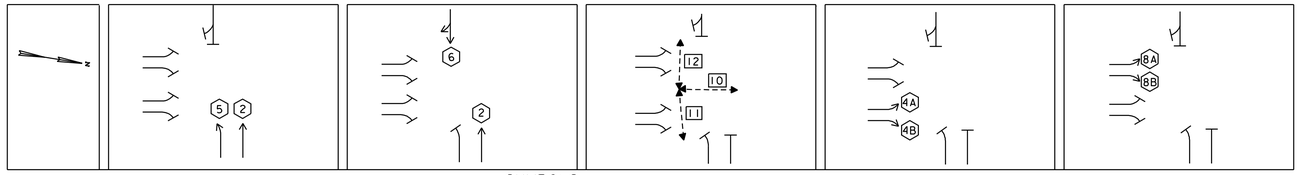
R10-3e "PUSH BUTTON SIGN"



5 9 11 17 — 14

SIGN B TO BE MOUNTED ADJACENT TO SIGNAL HEAD 5 ON MAST ARM AT LOC. 12. R10-5 (750mm X 900mm)

(B)



SYMBOLS

(X) = TRAFFIC SIGNAL FACE
XX = PED SIGNAL FACE
<----> = EXCLUSIVE PED. PHASE

EQUIPMENT LOCATIONS

LOC.	TYPE	STATION	OFFSET	NOTES
(1)	CC	21+598.4	13.33 LT	CONTROLLER AND CABINET
(2)				NOT USED
(3)	JB	21+600.0	11.0 RT	JUNCTION BOX
(4)	JB	21+580.1	9.73 RT	JUNCTION BOX
(5)	PP	21+573.4	10.00 RT	PED. POLE W/ PED. SIGNAL AND PUSH BUTTON ASSEMBLY WITH SIGN
(6)	MA	21+586.9	9.10 RT	TRAFFIC SIGNAL POLE W/LUMINAIRE AND 11.6 m MAST ARM W/TWO CAMERAS
(7)	JB	21+562.7	8.97 RT	JUNCTION BOX
(8)	MA	21+565.4	9.09 RT	TRAFFIC SIGNAL POLE W/ 3.0 m MAST ARM WITH CAMERA
(9)	LP	21+596.4	13.79 LT	LIGHT POLE W/ PED. SIGNAL AND PUSH BUTTON ASSEMBLY WITH SIGN (POLE/LIGHT PAID FOR UNDER LIGHT ITEMS)
(10)	JB	21+577.7	15.68 LT	JUNCTION BOX
(11)	PBP	21+577.8	11.63 LT	PUSH BUTTON POST W/ PUSH BUTTON ASSEMBLY W/ SIGN
(12)	MA	21+575.4	13.92 LT	TRAFFIC SIGNAL POLE W/ TWO PED. SIGNALS AND LUMINAIRE AND 10.6 m MAST ARM WITH CAMERA
(13)	JB	21+571.9	14.45 LT	JUNCTION BOX
(14)	LP	21+572.0	10.50 LT	LIGHT POLE W/ PED. SIGNAL AND PUSH BUTTON ASSEMBLY WITH SIGN (POLE/LIGHT PAID FOR UNDER LIGHT ITEMS)
(15)	JB	34+012.7	11.42 LT	JUNCTION BOX
(16)	LP	34+012.0	10.30 LT	LIGHT POLE W/ TRAFFIC SIGNAL AND PED. SIGNAL (POLE/LIGHT PAID FOR UNDER LIGHT ITEMS)
(17)	LP	21+552.7	11.09 LT	LIGHT POLE W/ PUSH BUTTON ASSEMBLY W/ SIGN (POLE/LIGHT PAID FOR UNDER LIGHT ITEMS)
(30)	JB	21+578.1	16.36 LT	JUNCTION BOX (INTERCONNECT)
(31)	JB	21+571.2	14.92 LT	JUNCTION BOX (INTERCONNECT)
(32)	JB	34+013.5	11.37 LT	JUNCTION BOX (INTERCONNECT)

WIRED CONDUIT (SIGNAL/VIDEO) ELECTRICAL CONDUIT (SPARE) (SCHEDULE 80)		LENGTH (m)		
		SIGNAL	VIDEO	SPARE
FROM	TO	DIA 50 mm	DIA 50 mm	DIA 50 mm
LIGHT CABINET	CC (1)	3.59		3.59
⚠2 CC (1)	JB (3)	24.97	24.97	24.97
JB (3)	JB (4)	18.60	18.60	18.60
JB (4)	PP (5)	5.45	-	5.45
JB (4)	MA (6)	5.88	5.88	5.88
JB (4)	JB (7)	16.66	16.66	16.66
JB (7)	MA (8)	2.40	-	2.40
CC (1)	LP (9)	2.46	2.46	2.46
⚠1 CC (1)	JB (10)	26.66	26.66	26.66
JB (10)	PBP (11)	4.43	-	4.43
JB (10)	MA (12)	3.91	3.91	3.91
JB (10)	JB (13)	9.91	9.91	9.91
JB (3)	LP (14)	4.82	-	4.82
⚠1 JB (13)	JB (15)	25.39	25.39	25.39
JB (15)	LP (16)	1.57	-	1.57
JB (15)	LP (17)	3.64	-	3.64
⚠1 CC (1)	JB (30)	26.66	-	26.66
JB (30)	JB (31)	11.27	-	11.27
⚠1 JB (31)	JB (32)	24.90	-	24.90
	SUBTOTAL	198.20	109.47	198.2
	ROUNDING	1.80	0.53	1.80
	TOTAL	200	110	200

NEW	LEGEND
	UTILITY POLE
	LUMINAIRE *
	OVERHEAD LIGHT / POLE
	PEDESTAL LIGHT POLE
	MAST ARM/POLE
	CONTROLLER CABINET
	JUNCTION BOX
	SIGNAL HEAD
	CONDUIT
	VEHICLE DETECTION AREA
	PEDESTAL POST
	STANCHION**
-S	SWEEP
	PUSH BUTTON & SIGN
	PEDESTRIAN SIGNAL HEAD
	SIGN
	VEHICLE DETECTOR***
	PUSH BUTTON POLE

0 10 20 30
SCALE IN METERS

* PROVIDE BRACKET ARMS FOR OVERHEAD LIGHTS WITH ARM LENGTHS AND ORIENTATION AS INDICATED ON THE LIGHTING PLANS.

** NO STANCHION. METER FOR SIGNALS AND LIGHTING MOUNTED ON CABINET FOR LIGHTING PANEL BOARD. SEE LIGHTING PLANS.

*** LOCATION OF VEHICLE DETECTORS SHOWN FOR REFERENCE ONLY. TO BE INSTALLED PER MANUFACTURER'S SPECIFICATIONS.

⚠1 RUN INCLUDES ELECTRICAL CONDUIT SLEEVE UNDER ROADWAY OR DRIVEWAY. SEE LIGHTING PLANS FOR LOCATION AND SIZE OF CONDUIT SLEEVE.
⚠2 RUN INCLUDES CONCRETE ENCASED CONDUIT UNDER ROADWAY. SEE CONCRETE ENCASED DUCTBANK DETAIL IN LIGHTING PLANS. CONDUIT PAID FOR UNDER ITEM 900.640 SPECIAL PROVISION (WIRED CONCRETE ENCASED DUCTBANK)(5-8 CONDUIT)

TRAFFIC SIGNAL LAYOUT US 7 AND UNION/CARVER STREETS

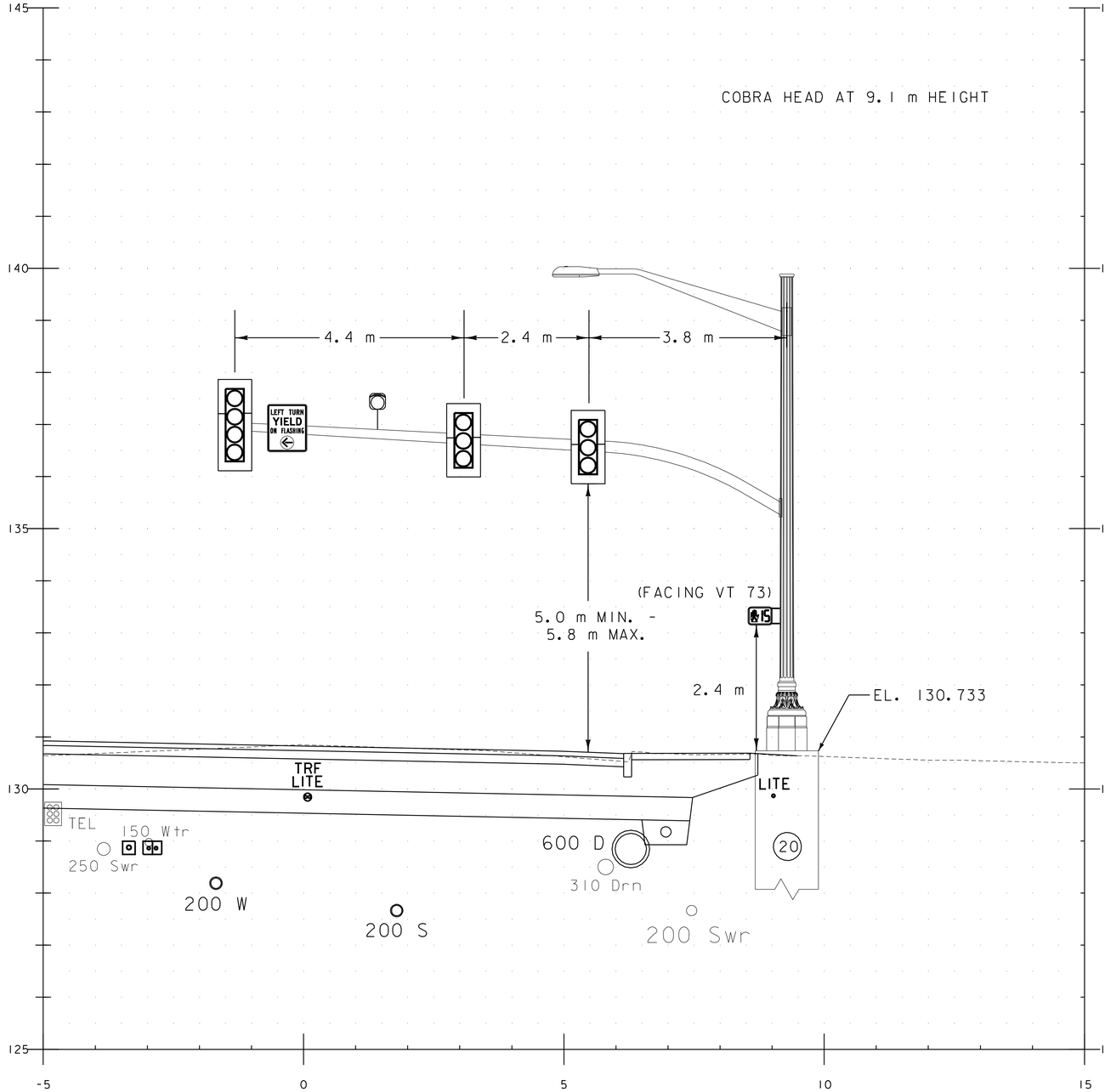
PROJECT NAME: BRANDON
PROJECT NUMBER: NH 019-3(496)

FILE NAME: zb008s6-trf.dgn
PROJECT LEADER: C. BEAN
DESIGNED BY: L. GREER
PLOT DATE: 2/23/2017
DRAWN BY: S. GOODWIN
CHECKED BY: P. KONIECZKA
SHEET 319 OF 601

CLD 02-0448 MODEL: 4

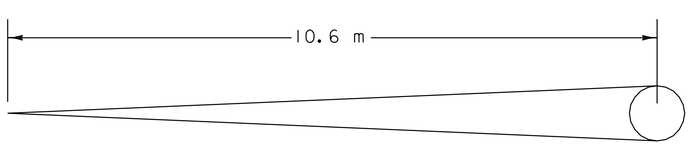
ISSUED FOR CONSTRUCTION

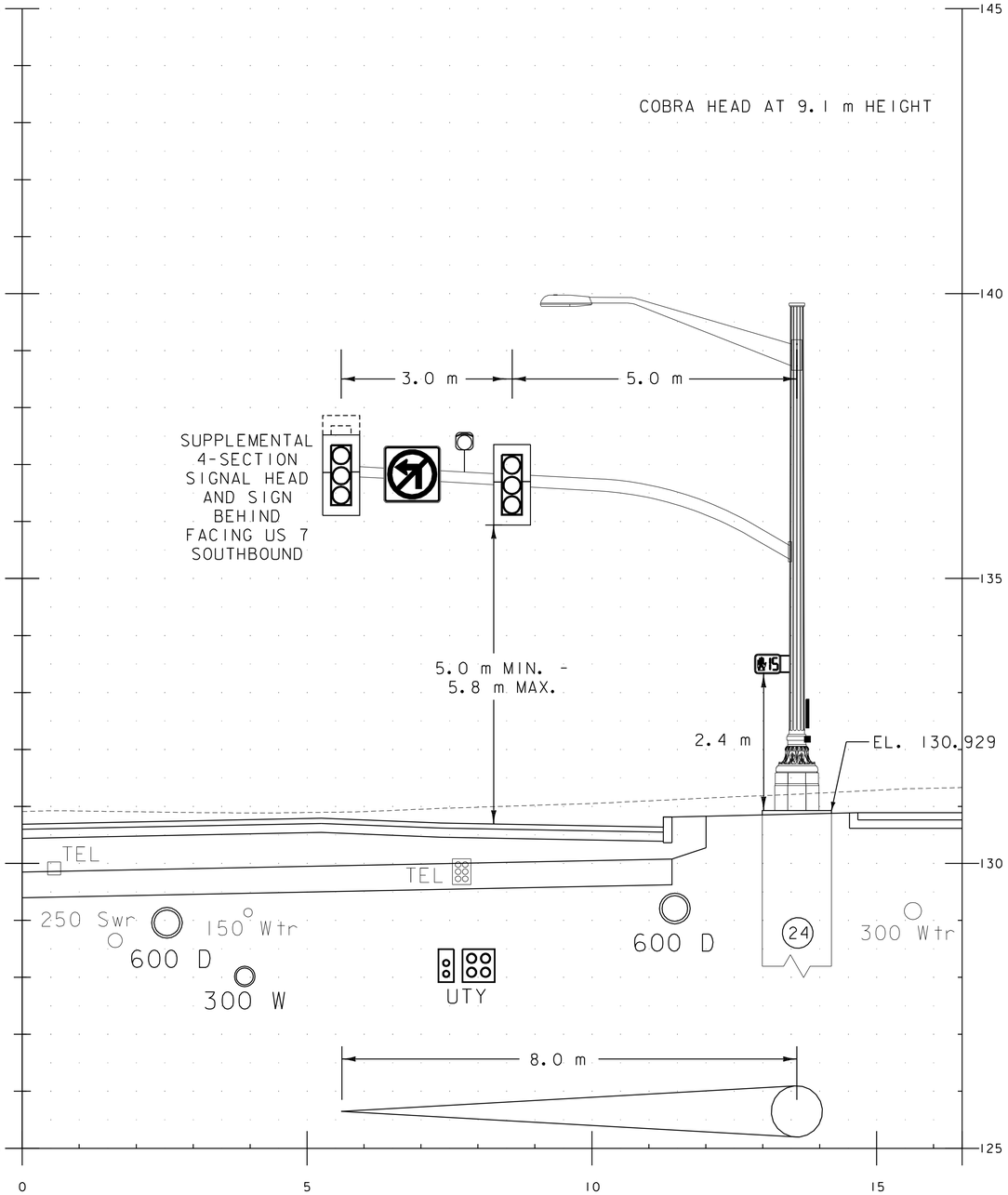
VAOT Metric



21+465.0

LOOKING DOWNSTATION





21+488.9

LOOKING UPSTATION

NOTES:

1. ALL MAST ARM FOUNDATIONS SHALL INCLUDE A 50 mm (MIN.) REVEAL. ELEVATIONS SHOWN IN CROSS-SECTIONS ARE APPROXIMATE GRADE ELEVATIONS FOR CONTRACTOR BIDDING PURPOSES ONLY. ACTUAL FOUNDATION ELEVATIONS SHALL BE DETERMINED BY THE CONTRACTOR PRIOR TO SUBMITTING WORKING DRAWINGS.
2. MAST ARM FOUNDATION SIZES ARE NOT TO SCALE. FOUNDATION DESIGNS SHALL BE DETERMINED BY THE CONTRACTOR IN ACCORDANCE WITH SOIL CONDITIONS AND ACTUAL MAST ARM LOADINGS TRANSMITTED TO THE TOP OF THE FOUNDATIONS.
3. SIGNAL HEADS SHALL BE MOUNTED ON THE VERTICAL CENTER OF THE MAST ARM.
4. LOCATION OF VEHICLE DETECTORS SHOWN FOR REFERENCE ONLY. DETECTORS TO BE INSTALLED PER MANUFACTURE'S SPECIFICATIONS.

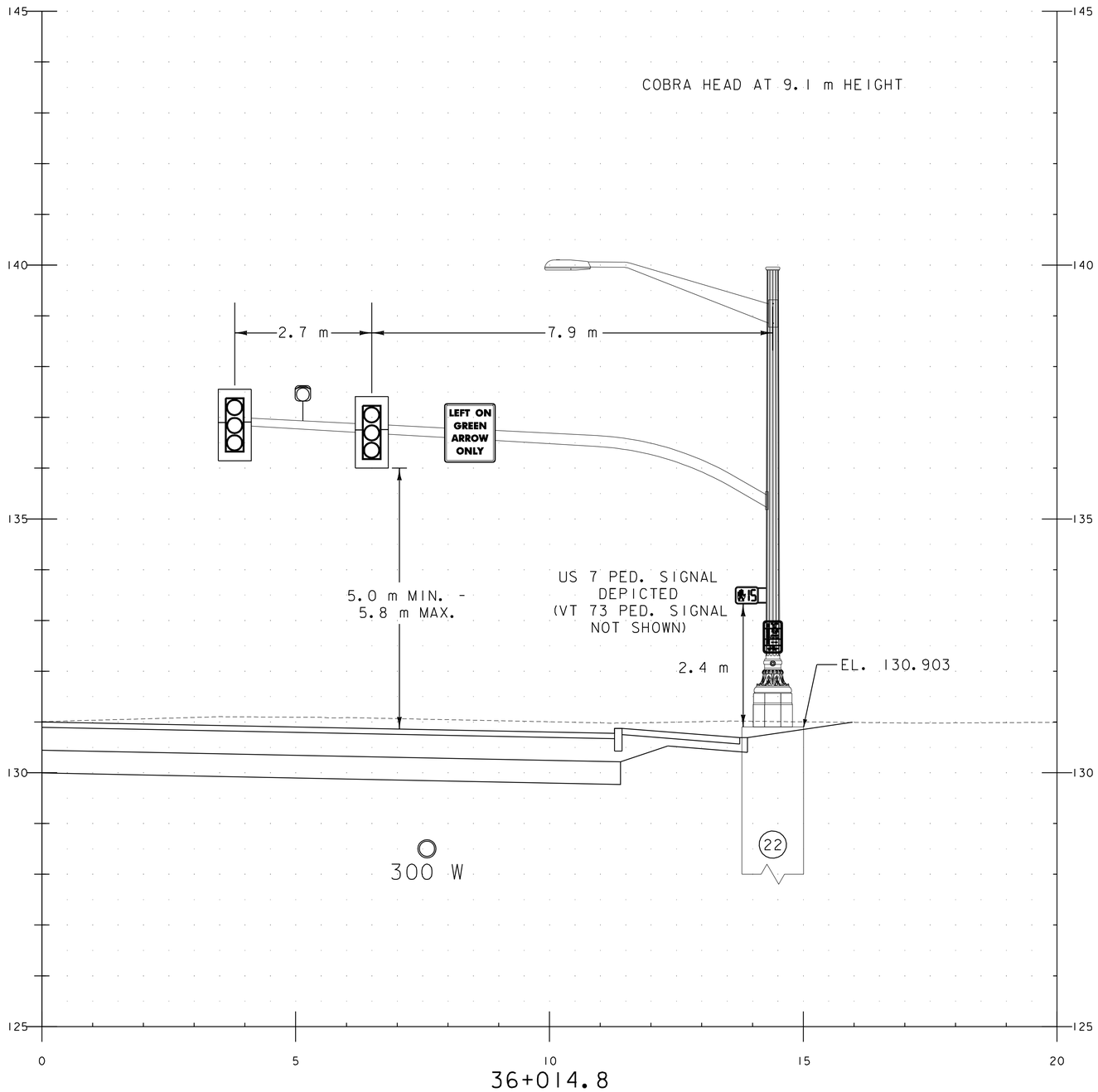
MAST ARM CROSS SECTIONS US 7 AND VT 73 EAST

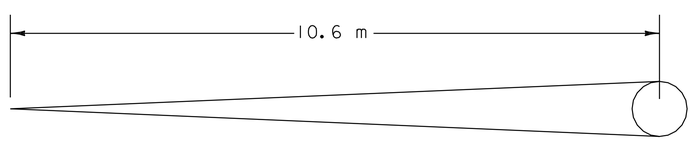
PROJECT NAME:	BRANDON
PROJECT NUMBER:	NH 019-3(496)

FILE NAME: zb008s6-trf.dgn	PLOT DATE: 2/23/2017
PROJECT LEADER: C. BEAN	DRAWN BY: S. GOODWIN
DESIGNED BY: L. GREER	CHECKED BY: P. KONIECZKA
	SHEET 320 OF 601

CLD 02-0448 MODEL: 6

ISSUED FOR CONSTRUCTION





NOTES:

1. ALL MAST ARM FOUNDATIONS SHALL INCLUDE A 50 mm (MIN.) REVEAL. ELEVATIONS SHOWN IN CROSS-SECTIONS ARE APPROXIMATE GRADE ELEVATIONS FOR CONTRACTOR BIDDING PURPOSES ONLY. ACTUAL FOUNDATION ELEVATIONS SHALL BE DETERMINED BY THE CONTRACTOR PRIOR TO SUBMITTING WORKING DRAWINGS.
2. MAST ARM FOUNDATION SIZES ARE NOT TO SCALE. FOUNDATION DESIGNS SHALL BE DETERMINED BY THE CONTRACTOR IN ACCORDANCE WITH SOIL CONDITIONS AND ACTUAL MAST ARM LOADINGS TRANSMITTED TO THE TOP OF THE FOUNDATIONS.
3. SIGNAL HEADS SHALL BE MOUNTED ON THE VERTICAL CENTER OF THE MAST ARM.
4. LOCATION OF VEHICLE DETECTORS SHOWN FOR REFERENCE ONLY. DETECTORS TO BE INSTALLED PER MANUFACTURE'S SPECIFICATIONS.

MAST ARM CROSS SECTIONS US 7 AND VT 73 EAST

PROJECT NAME: BRANDON
PROJECT NUMBER: NH 019-3(496)

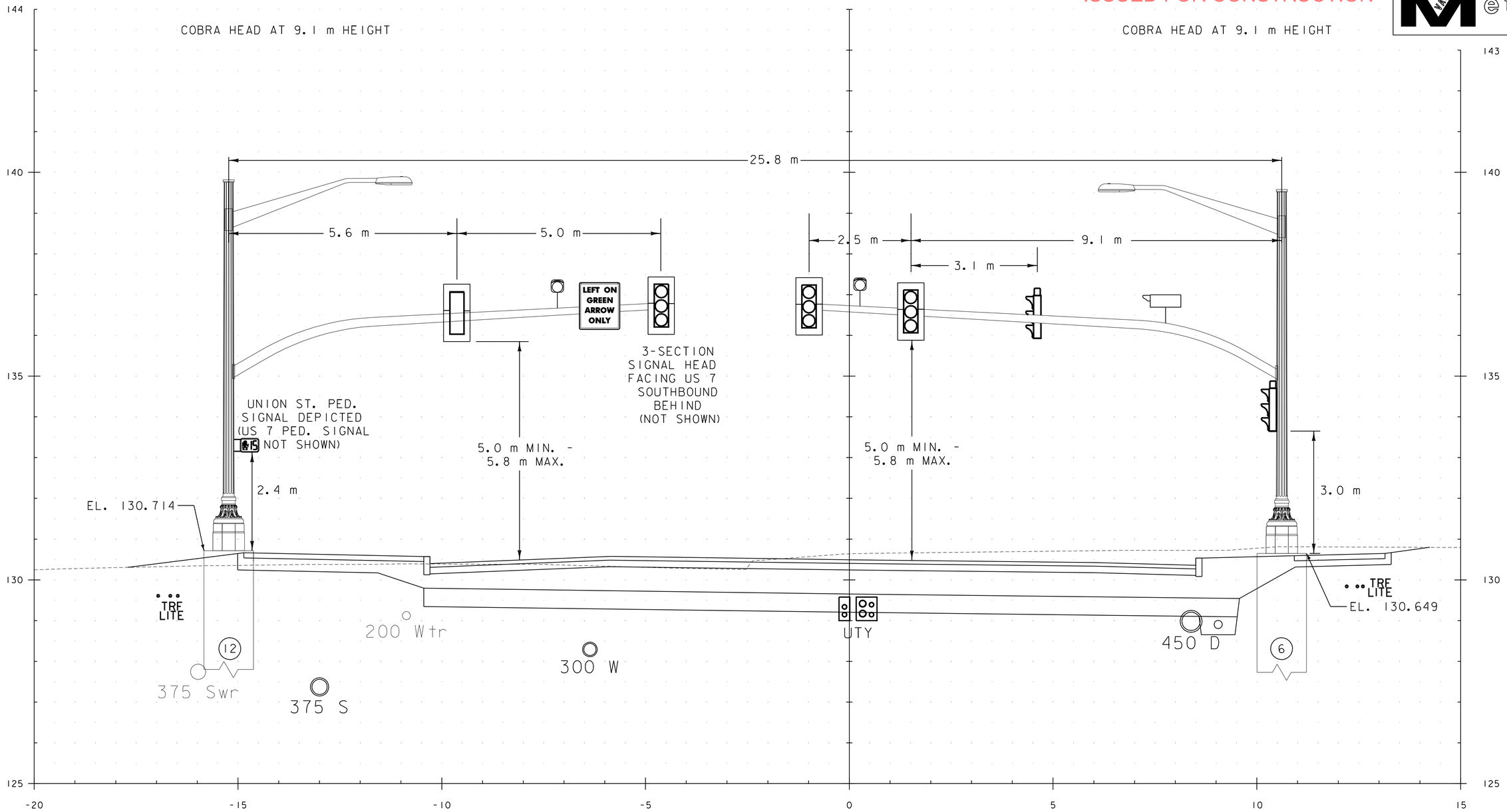
FILE NAME: zb008s6-trf.dgn
PROJECT LEADER: C. BEAN
DESIGNED BY: L. GREER

PLOT DATE: 2/23/2017
DRAWN BY: S. GOODWIN
CHECKED BY: P. KONIECZKA
SHEET 321 OF 601

CLD 02-0448 MODEL: 7

ISSUED FOR CONSTRUCTION

VAOT Metric



21+580.85
ASKEW 62° 27′ 31"
LOOKING UPSTATION

THE CROSS SECTION HAS BEEN CUT AT A SKEW ALONG THE AXIS OF THE MAST ARMS.

NOTES:

1. ALL MAST ARM FOUNDATIONS SHALL INCLUDE A 50 mm (MIN.) REVEAL. ELEVATIONS SHOWN IN CROSS-SECTIONS ARE APPROXIMATE GRADE ELEVATIONS FOR CONTRACTOR BIDDING PURPOSES ONLY. ACTUAL FOUNDATION ELEVATIONS SHALL BE DETERMINED BY THE CONTRACTOR PRIOR TO SUBMITTING WORKING DRAWINGS.
2. MAST ARM FOUNDATION SIZES ARE NOT TO SCALE. FOUNDATION DESIGNS SHALL BE DETERMINED BY THE CONTRACTOR IN ACCORDANCE WITH SOIL CONDITIONS AND ACTUAL MAST ARM LOADINGS TRANSMITTED TO THE TOP OF THE FOUNDATIONS.
3. SIGNAL HEADS SHALL BE MOUNTED ON THE VERTICAL CENTER OF THE MAST ARM.
4. LOCATION OF VEHICLE DETECTORS SHOWN FOR REFERENCE ONLY. DETECTORS TO BE INSTALLED PER MANUFACTURE'S SPECIFICATIONS.

MAST ARM CROSS SECTIONS US 7 AND UNION/CARVER STREETS

PROJECT NAME: BRANDON
PROJECT NUMBER: NH 019-3(496)

FILE NAME: zb008s6-trf.dgn
PROJECT LEADER: C. BEAN
DESIGNED BY: L. GREER
PLOT DATE: 2/23/2017
DRAWN BY: S. GOODWIN
CHECKED BY: P. KONIECZKA
SHEET 322 OF 601

CLD 02-0448 MODEL: 8

BREAKER / DISTRIBUTION PANEL SCHEDULES

ISSUED FOR CONSTRUCTION

VAOT Metric

PANEL No. LA

BUS: 200A
PANEL RATING: 22 KAIC
SUPPLY VOLTAGE: 120/240V
SERVICE: SINGLE PHASE, 3 WIRE

LOCATION: 21+599.8 LT
MOUNTING: SURFACE
DRAWING NO.: LIGHTING PLAN 8

DESCRIPTION	VA OR W •A	VA OR W •B	BREAKER POLE	BREAKER A	CKT. NO.	BUS CONN.		CKT. NO.	BREAKER POLE	BREAKER A	VA OR W •A	VA OR W •B	DESCRIPTION
\SL-38,35,33,31,29,13,12A,12 /	240		\2/	\20/	1	x		2	\2/	\20/	290		\SL-36,34,32,30,28,37,56 /
/ \		240	/ \	/ \	3		x	4	/ \	/ \		290	/ \
\SL-39,22,20,9,8,7,5,2, /	490		\2/	\20/	5	x		6	\2/	\20/	240		\SL-25A,43,42,44,24,23,40,41 /
/SL-6,4,1,8A,16,17,3 \		490	/ \	/ \	7		x	8	/ \	/ \		240	/ \
RECP - RECPS	720		1	20	9	x		10	\2/	\20/	440		\SL-27,46,49,51,53,54,57,59,61, /
RECP - RECPS		720	1	20	11		x	12	/ \	/ \		440	/SL-63,65 \
RECP - RECPS	540		1	20	13	x		14	\2/	\20/	210		\SL-26,25,21,19,11,10,14 /
RECP - RECPS (ON PANELBOARD)		180	1	20	15		x	16	/ \	/ \		210	/ \
SPARE			1	20	17	x		18	\2/	\20/	490		\SL-45,47,48,50,51A,52,55,58, /
SPARE			1	20	19		x	20	/ \	/ \		490	/SL-60,62,64 \
SPARE			1	20	21	x		22	\2/	\30/	2500		\FOUNTAIN (• - SEE NOTE) /
SPARE			1	20	23		x	24	/ \	/ \		2500	/ \
\TRAFFIC CONTROLLER (•-SEE NOTE)/	1500		\2/	\20/	25	x		26	\2/	\100/	2500		\GAZEBO /
/ \		1500	/ \	/ \	27		x	28	/ \	/ \		2500	/ \
SPARE			1	20	29	x		30	/ \	/ \			\SPARE /
SPARE			1	20	31		x	32	/ \	/ \			/ \
SPARE			1	20	33	x		34	\2/	\40/			\SPARE /
SPARE			1	20	35		x	36	/ \	/ \			/ \
SPARE			1	20	37	x		38	\2/	\20/			\SPARE /
SPARE			1	20	39		x	40	/ \	/ \			/ \
SPARE			1	20	41	x		42	1	20			SPARE
TOTAL LT	3490	3130						TOTAL			6670	6670	
TOTAL RT	6670	6670											
TOTAL	10,160	9,800											
	19,960												
	83 AMPS												

MAIN BREAKER: 200A
FEEDER ENTRANCE: BOTTOM
FEEDER SIZE: SEE ONE-LINE
SOURCE: SEE ONE-LINE
PANEL TYPE: BOLT-ON

MAIN LUGS:
ENCLOSURE TYPE: NEMA 1
ACCESSORIES:

PANEL No. LB

BUS: 100A
PANEL RATING: 22 KAIC
SUPPLY VOLTAGE: 120/240V
SERVICE: SINGLE PHASE, 3 WIRE

LOCATION: 22+129.1 LT
MOUNTING: SURFACE
DRAWING NO.: LIGHTING PLAN 13

DESCRIPTION	VA OR W •A	VA OR W •B	BREAKER POLE	BREAKER A	CKT. NO.	BUS CONN.		CKT. NO.	BREAKER POLE	BREAKER A	VA OR W •A	VA OR W •B	DESCRIPTION
\SL-67,68,69,76,77 /	150		\2/	\20/	1	x		2	\2/	\20/	300		\SL-70,73,74,78,80,72,71,82
/ \		150	/ \	/ \	3		x	4	/ \	/ \		300	/
RECP - RECPS	540		1	20	5	x		6	\2/	\30/	2500		\FOUNTAIN (• - SEE NOTE)
RECP - RECPS		720	1	20	7		x	8	/ \	/ \		2500	/
RECP - RECPS (ON PANELBOARD)	180		1	20	9	x		10	\2/	\40/			\SPARE
SPARE			1	20	11		x	12	/ \	/ \			/
SPARE			1	20	13	x		14	\2/	\20/			\SPARE
SPARE			1	20	15		x	16	/ \	/ \			/
SPARE			1	20	17	x		18	\2/	\20/			\SPARE
SPARE			1	20	19		x	20	/ \	/ \			/
SPARE			1	20	21	x		22	\2/	\20/			\SPARE
SPARE			1	20	23		x	24	/ \	/ \			/
SPARE			1	20	25	x		26	\2/	\20/			\SPARE
SPARE			1	20	27		x	28	/ \	/ \			/
SPARE			1	20	29	x		30	1	20			SPARE
TOTAL LT	870	870						TOTAL			2800	2800	
TOTAL RT	2800	2800											
TOTAL	3670	3670											
	7340												
	31 AMPS												

MAIN BREAKER: 100A
FEEDER ENTRANCE: BOTTOM
FEEDER SIZE: SEE ONE-LINE
SOURCE: SEE ONE-LINE
PANEL TYPE: BOLT-ON

MAIN LUGS:
ENCLOSURE TYPE: NEMA 1
ACCESSORIES:

PANEL No. GAZEBO

BUS: 100A
PANEL RATING: 22 KAIC
SUPPLY VOLTAGE: 120/240V
SERVICE: SINGLE PHASE, 3 WIRE

LOCATION: 21+526.9 RT
MOUNTING: SURFACE
DRAWING NO.: LIGHTING PLAN 8

DESCRIPTION	VA OR W •A	VA OR W •B	BREAKER POLE	BREAKER A	CKT. NO.	BUS CONN.		CKT. NO.	BREAKER POLE	BREAKER A	VA OR W •A	VA OR W •B	DESCRIPTION
\FUTURE EVENT LOADS /	1500		\2/	\20/	1	x		2	\2/	\20/			\SPARE
/ \		1500	/ \	/ \	3		x	4	/ \	/ \			/
\SPARE /			\2/	\20/	5	x		6	\2/	\20/			\SPARE
/ \			/ \	/ \	7		x	8	/ \	/ \			/
RECP - RECPS	540		1	20	9	x		10	\2/	\20/			\SPARE
RECP - RECPS		540	1	20	11		x	12	/ \	/ \			/
RECP - RECPS	540		1	20	13	x		14	\2/	\30/			\SPARE
LIGHTS - GAZEBO (FUTURE)		500	1	20	15		x	16	/ \	/ \			/
SPARE			1	20	17	x		18	\2/	\60/			\SPARE
SPARE			1	20	19		x	20	/ \	/ \			/
SPARE			1	20	21	x		22	\2/	\60/			\SPARE
SPARE			1	20	23		x	24	/ \	/ \			/
SPARE			1	20	25	x		26	\2/	\40/			\SPARE
SPARE			1	20	27		x	28	/ \	/ \			/
SPARE			1	20	29	x		30	1	20			SPARE
TOTAL LT	2580	2540						TOTAL			0	0	
TOTAL RT	0	0											
TOTAL	2580	2540											
	5120												
	25 AMPS												

MAIN BREAKER: N/A
FEEDER ENTRANCE: BOTTOM
FEEDER SIZE: SEE ONE-LINE
SOURCE: SEE ONE-LINE
PANEL TYPE: BOLT-ON

MAIN LUGS: 100A
ENCLOSURE TYPE: NEMA 3R
ACCESSORIES:

• POWER REQUIREMENTS FOR FOUNTAIN EQUIPMENT AND TRAFFIC SIGNAL CONTROLLER ARE ESTIMATED AND SHALL BE VERIFIED BY CONTRACTOR TO DETERMINE ACTUAL BREAKER REQUIREMENTS.

LIGHTING GENERAL NOTES:

1. THE SCOPE OF WORK IS TO PROVIDE ALL LABOR, MATERIALS, SERVICES, SUPPLIES, TOOLS, EQUIPMENT, TRANSPORTATION, AND FACILITIES NECESSARY TO FURNISH AND INSTALL COMPLETE STREET LIGHTING WORK AS CALLED FOR ON THE DRAWINGS, SPECIFIED, OR AS MAY REASONABLY BE IMPLIED AS BEING INCIDENTAL TO THIS WORK.
2. SECURE AND PAY COSTS OF PERMITS, CERTIFICATES, LICENSES, INSPECTIONS, AND APPROVALS.
3. DRAWINGS ARE DIAGRAMMATIC AND INDICATE THE GENERAL ARRANGEMENT OF WORK. BASIC DESIGN CONCEPTS INDICATED ARE TO BE EITHER FOLLOWED OR BETTERED. WORK IS INTENDED TO INCLUDE ITEMS NECESSARY FOR PROPER OPERATION AND COMPLETION. FIELD VERIFY ALL LOCATIONS, ELEVATIONS, AND DIMENSIONS.
4. EXECUTE ALL WORK IN A NEAT AND WORKMANLIKE MANNER IN CONFORMANCE WITH BEST MODERN TRADE PRACTICE, BY COMPETENT, EXPERIENCED MECHANICS, PRESENTING A NEAT APPEARANCE WHEN COMPLETED.
5. ALL MATERIALS AND INSTALLATION SHALL BE IN ACCORDANCE WITH THE LATEST EDITION OF THE NATIONAL ELECTRICAL CODE, AND ALL CODES, REGULATIONS AND REQUIREMENTS OF ALL MUNICIPAL, STATE, FEDERAL, AND OTHER PUBLIC OR PRIVATE AUTHORITIES WHICH HAVE JURISDICTION. IN EACH CASE, CODES ARE MINIMUM REQUIREMENTS.
6. SHOP DRAWINGS: SUBMIT COMPLETE CATALOG INFORMATION FOR ALL MATERIALS AND EQUIPMENT TO BE PURCHASED AND USED ON THIS PROJECT AND AS SPECIFIED ON THE DRAWINGS. DO NOT INSTALL MATERIALS OR EQUIPMENT WITHOUT APPROVAL. UNAPPROVED MATERIAL ALREADY INSTALLED SHALL BE SUBJECT TO REMOVAL AND REPLACEMENT WITH APPROVED MATERIALS AT THE CONTRACTOR'S EXPENSE.
7. THE FINISHED INSTALLATION SHALL BE COMPLETE IN EVERY RESPECT AND DETAIL, TESTED, AND LEFT READY IN PERFECT OPERATING CONDITION.
8. MATERIALS AND EQUIPMENT SHALL BE LISTED BY UNDERWRITERS' LABORATORIES AND SHALL BE INSTALLED IN ACCORDANCE WITH SUCH LISTINGS.
9. THE CONTRACTOR SHALL GUARANTEE THAT MATERIALS, EQUIPMENT, AND WORKMANSHIP PROVIDED BY HIM SHALL BE FREE FROM DEFECTS IN MATERIALS OR WORKMANSHIP FOR A PERIOD OF ONE YEAR FROM THE DATE OF ACCEPTANCE OF THE WORK DONE UNDER THIS CONTRACT, AND SHALL REPLACE PARTS FOUND TO BE DEFECTIVE WITHIN THE PERIOD COVERED BY SUCH GUARANTEE, WITHOUT COST TO THE OWNER.
10. INSTALLATION SHALL BE MADE IN ACCORDANCE WITH MANUFACTURER'S RECOMMENDATIONS.
11. CONDUIT LOCATIONS SHOWN ARE INDICATIVE ONLY. CONDUITS WILL BE INSTALLED SO AS NOT TO INTERFERE WITH OTHER NEW OR EXISTING UTILITIES.
12. CONDUIT LOCATIONS SHALL MAINTAIN A MINIMUM OF 5'-0" [1524] SEPARATION FROM CENTERLINE OF TREES.
13. ALL DIMENSIONS SHOWN IN BRACKETS ON FOLLOWING SHEETS ARE IN MILLIMETERS.

STATE OF VERMONT — ROBERT E. KISCHKO 5977 — PROFESSIONAL ENGINEER

LIGHTING GENERAL NOTES
BREAKER/DISTRIBUTION
PANEL SCHEDULES

PROJECT NAME: BRANDON
PROJECT NUMBER: NH 019-3(496)

FILE NAME: zb008s6-lightdet.dgn
PROJECT LEADER: R.KISCHKO
DESIGNED BY: M.CROWLEY
PLOT DATE: 2/22/2017
DRAWN BY: M.CROWLEY
CHECKED BY: R.KISCHKO
SHEET 323 OF 601

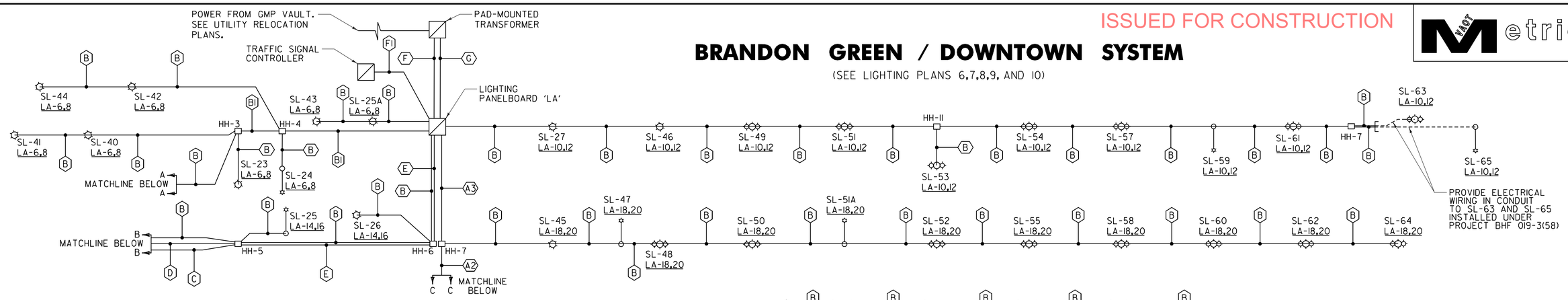
CLD 02-0448 MODEL: 1

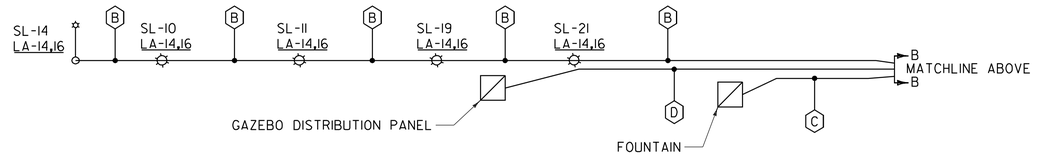
ISSUED FOR CONSTRUCTION

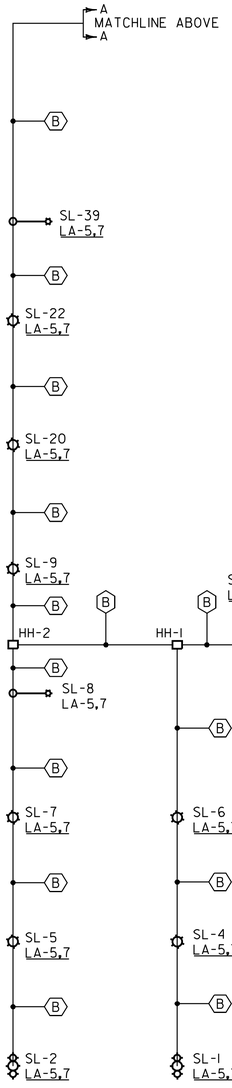
VAOT Metric

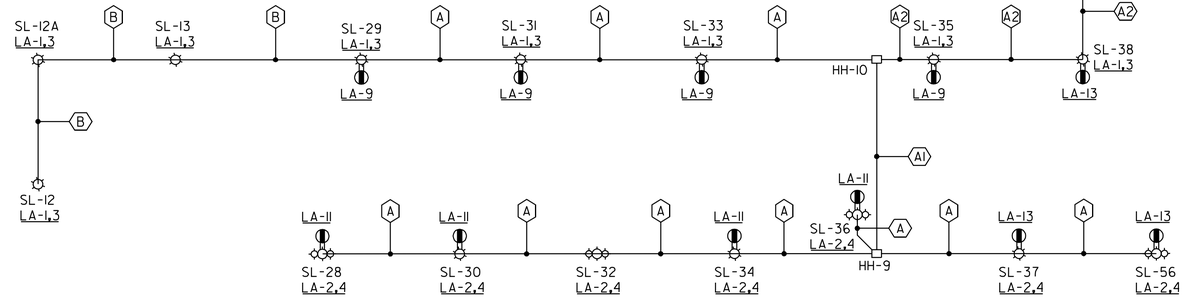
BRANDON GREEN / DOWNTOWN SYSTEM

(SEE LIGHTING PLANS 6,7,8,9, AND 10)









CONDUIT & CONDUCTOR SCHEDULE					
KEY	CONDUIT SIZE	CONDUCTORS			
		FOR FIXTURES	FOR RECEPTACLES	FOR EQUIPMENT	FOR GROUND
A	50 [2"]	(3) #6	(2) #6		(1) #6G
A1	50 [2"]	(3) #6	(4) #6		(1) #6G
A2	75 [3"]	(6) #6	(6) #6		(1) #6G
A3	100 [4"]	(9) #6	(6) #6		(1) #6G
B	50 [2"]	(3) #6			(1) #6G
B1	50 [2"]	(6) #6			(1) #6G
C	50 [2"]			(3) #2	(1) #6G
D	50 [2"]			(3) #1/0	(1) #6G
E	100 [4"]			(3) #1/0, (4) #2	(1) #6G
F	100 [4"]			(3) #4/0	(1) #6G
FI	50 [2"]			(3) #6	(1) #6G
G	100 [4"] SPARE				

NOTES:

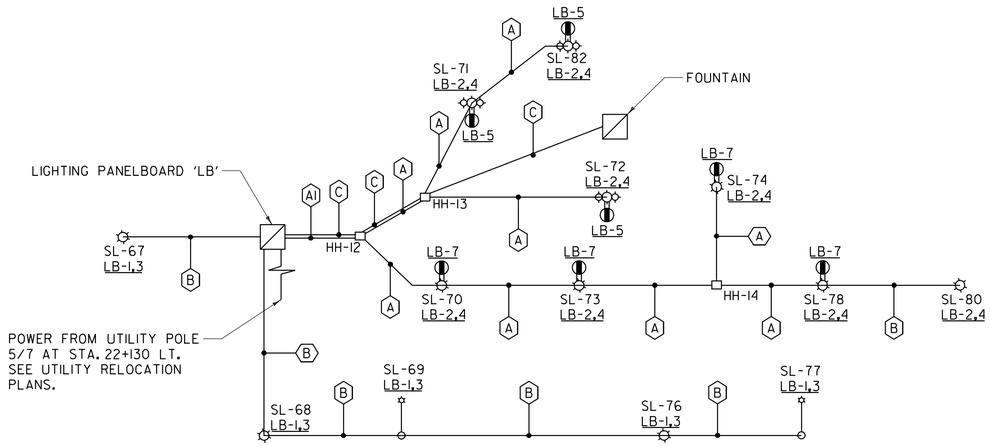
1. ALL CONDUIT SHALL BE SCHEDULE 80 PVC UNLESS OTHERWISE SPECIFIED.
2. MAXIMUM OF 270° TOTAL BENDS PERMITTED IN SINGLE RUN OF CONDUIT.
3. CIRCUIT CONDUCTORS, INCLUDING NEUTRAL CONDUCTOR, SHALL BE CLEARLY IDENTIFIED BY CORROSION RESISTANT TAGS INDICATING CIRCUIT NUMBER AND PANEL SOURCE AT EVERY POLE BASE AND JUNCTION BOX.
4. LIGHTS SHALL BE FUSED AT BASE WITH Y-TYPE FUSE KIT EQUAL TO HOMAC [FLOOD SEAL] FYC-6 AND 10 AMP FUSE.
5. UTILIZE APPROVED DUAL-RATED PARALLEL TAP CONNECTOR EQUAL TO ILSCO GTA SERIES WITH INSULATED COVER FOR TAPS AT POLE BASE.
6. POWER REQUIREMENTS AND REQUIRED CONDUCTORS IN CONDUIT FOR FOUNTAIN AND TRAFFIC SIGNAL CONTROLLER SHALL BE VERIFIED BY CONTRACTOR.

LEGEND:

- SL-XX — TYPE 'A' STREET LIGHT, TOP STYLE FIXTURE
- SL-XX — TYPE 'B' STREET LIGHT, TOP STYLE FIXTURE WITH TWO ADDITIONAL ARM-MOUNTED LUMINAIRES
- SL-XX — TYPE 'C' STREET LIGHT WITH COBRA HEAD STYLE FIXTURE

XX DENOTES STREET LIGHT IDENTIFICATION.
SEE LIGHTING PLANS FOR ADDITIONAL INFORMATION.

- DUPLEX GFCI RECEPTACLE WITH LOCKABLE WEATHERPROOF IN-USE COVER.
- OTHER EQUIPMENT
- HH-XX — JUNCTION BOX, XX DENOTES JUNCTION BOX IDENTIFICATION PAID FOR AS SPECIAL PROVISION (JUNCTION BOX, HEAVY DUTY)
- LX-# — CIRCUIT IDENTIFICATION
  X DENOTES ELECTRICAL PANELBOARD SOURCE (A OR B)
  # DENOTES CIRCUIT NUMBER



CRESCENT PARK SYSTEM

(SEE LIGHTING PLAN 13)

ONE-LINE DIAGRAMS

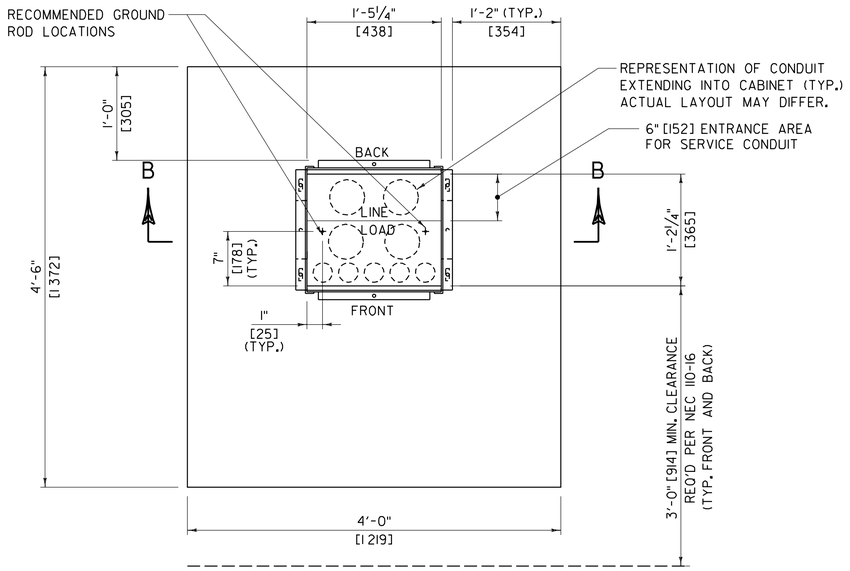
PROJECT NAME:	BRANDON
PROJECT NUMBER:	NH 019-3(496)

FILE NAME:	zb008s6-lightdet.dgn	PLOT DATE:	2/22/2017
PROJECT LEADER:	R.KISCHKO	DRAWN BY:	M.CROWLEY
DESIGNED BY:	M.CROWLEY	CHECKED BY:	R.KISCHKO
		SHEET	324 OF 601

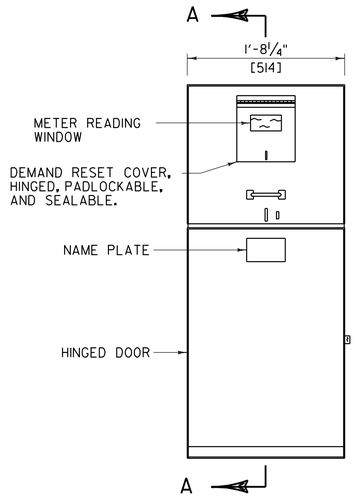
STATE OF VERMONT — ROBERT F. KISCHKO 15977 — PROFESSIONAL ENGINEER

CLD 02-0448 MODEL: 2

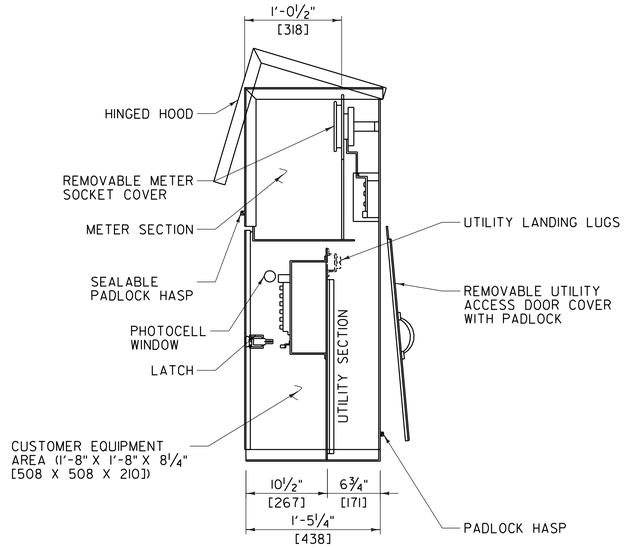
ISSUED FOR CONSTRUCTION



PAD AND MOUNTING BASE
PLAN VIEW



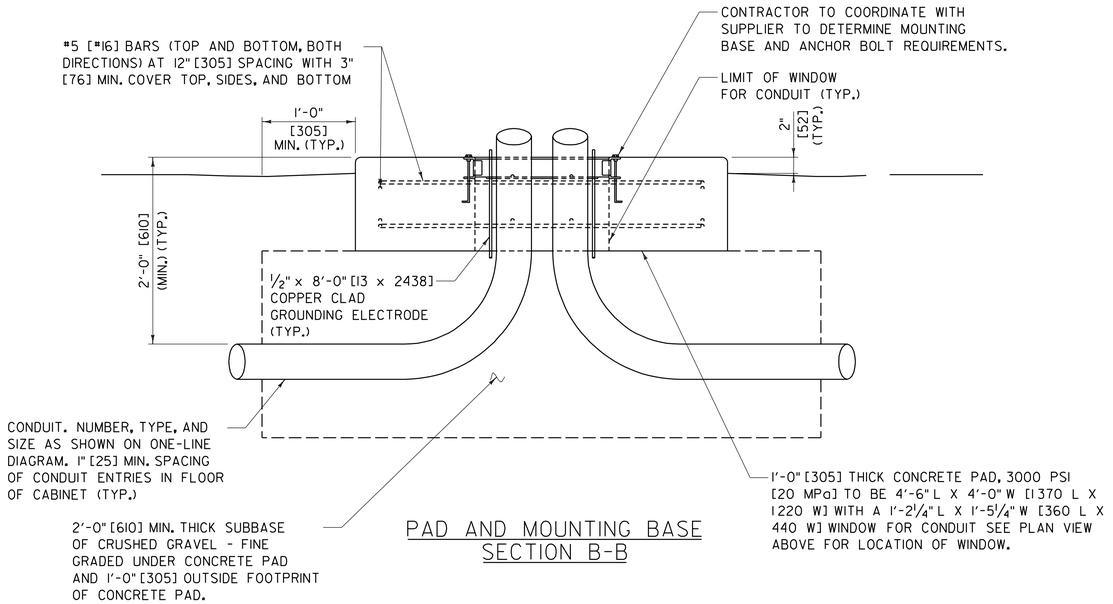
CABINET
FRONT VIEW



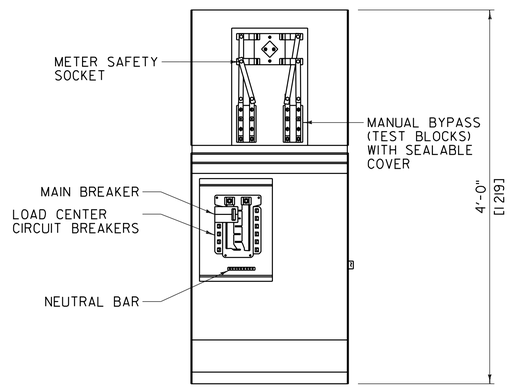
CABINET SIDE VIEW
SECTION A-A

NOTES:

1. PROVIDE FREE STANDING, STAINLESS STEEL, NEMA 3R ENCLOSURE WITH METER SOCKET, 225A OR 100A PANELBOARD AS INDICATED, AND ACCESSORIES. MYERS MEUG20(SS); MILBANK SLCC(SS); VIT 'STRONGBOX' MPSC42-10K OR APPROVED EQUAL. 'LA' AS 225A PANEL WITH 200A MAIN BREAKER AND 'LB' AS 100A PANEL AND MAIN BREAKER (SEE BREAKER / DISTRIBUTION PANEL SCHEDULE FOR NUMBER AND SIZE OF BREAKERS). ENCLOSURE TO BE PAINTED FOREST/DARK GREEN.
2. METER SOCKET AND UTILITY SERVICE ENTRANCE SECTION SHALL BE PER UTILITY COMPANY REQUIREMENTS.
3. PROVIDE MOUNTING BASE AND ANCHOR BOLTS.
4. PANEL 'LA' SHALL CONSIST OF THE FOLLOWING: GMP APPROVED METER SOCKET. LOADCENTER RATED 200A, WITH A 2-POLE 200A MAIN CIRCUIT BREAKER, 120/240V, SINGLE PHASE, THREE WIRE, UL LISTED FOR SERVICE ENTRANCE. PANEL SCHEDULE: 42 CIRCUITS WITH BREAKERS AS INDICATED ON BREAKER / DISTRIBUTION PANEL SCHEDULE. PROVIDE LIGHTING CONTACTORS 2 EACH, NEMA 1 ENCLOSURE, 30A RATED, 10 POLE, ELECTRICALLY HELD, CONTROLLED BY PHOTOCELL AND A MANUAL/AUTO/OFF CONTROL SWITCH (INTERNAL TO THE PANEL) POWERED BY 120V. VERIFY CIRCUIT BREAKER FOR TRAFFIC SIGNAL CONTROLLER 2-POLE 20A (OR AS REQUIRED BY EQUIPMENT MANUFACTURER) AND VERIFY CIRCUIT BREAKER FOR FOUNTAIN 2-POLE 30A (OR AS REQUIRED BY EQUIPMENT MANUFACTURER). PROVIDE 1 EACH 20A GROUND FAULT DUPLEX RECEPTACLE INTERNAL TO THE CABINET FOR MAINTENANCE. PHOTO CELL SHALL BE INCLUDED. ORIENTATION OF CABINET SHALL BE NORTH TO ACCOMMODATE THE PHOTOCELL.
5. PANEL 'LB' SHALL CONSIST OF THE FOLLOWING: GMP APPROVED METER SOCKET. LOADCENTER RATED 100A, WITH A 2-POLE 100A MAIN CIRCUIT BREAKER, 120/240V, SINGLE PHASE, THREE WIRE, UL LISTED FOR SERVICE ENTRANCE. PANEL SCHEDULE: 30 CIRCUITS WITH BREAKERS AS INDICATED ON BREAKER / DISTRIBUTION PANEL SCHEDULE. PROVIDE LIGHTING CONTACTORS 1 EACH, NEMA 1 ENCLOSURE, 30A RATED, 6 POLE, ELECTRICALLY HELD, CONTROLLED BY PHOTOCELL AND A MANUAL/AUTO/OFF CONTROL SWITCH (INTERNAL TO THE PANEL) POWERED BY 120V. PROVIDE CIRCUIT BREAKER FOR FOUNTAIN 2 POLE 30A (OR AS REQUIRED BY EQUIPMENT MANUFACTURER). PROVIDE 1 EACH 20A GROUND FAULT DUPLEX RECEPTACLE INTERNAL TO THE CABINET FOR MAINTENANCE. PHOTO CELL SHALL BE INCLUDED. ORIENTATION OF CABINET SHALL BE NORTH TO ACCOMMODATE THE PHOTOCELL.
6. GROUNDING AT EACH PANEL SHALL INCLUDE 2 EACH GROUND RODS AND #4 (200A LOADCENTER) OR #6 (100A LOADCENTER) GROUNDING ELECTRODE CONDUCTOR IN ½" [13 MM] PVC SCHEDULE 40 CONDUIT, EXOTHERMICALLY CONNECTED TO THE GROUND RODS, ALL PER ART. 250 OF THE NEC.
7. PAYMENT WILL BE UNDER ITEM 900.620 - SPECIAL PROVISION (LIGHTING PANELBOARD AND CABINET).
8. CONCRETE PAD FOR CABINET SHALL BE INCLUDED IN THE PANELBOARD AND CABINET PAY ITEM.
9. SUBBASE SHALL BE PAID UNDER APPROPRIATE PAY ITEM.



PAD AND MOUNTING BASE
SECTION B-B



CABINET
FRONT VIEW
(DOOR, DEADFRONT, AND COVER REMOVED)

LIGHTING PANELBOARD 'LA'/'LB' DETAILS

NOT TO SCALE

LIGHTING DETAILS

PROJECT NAME: BRANDON
PROJECT NUMBER: NH 019-3(496)

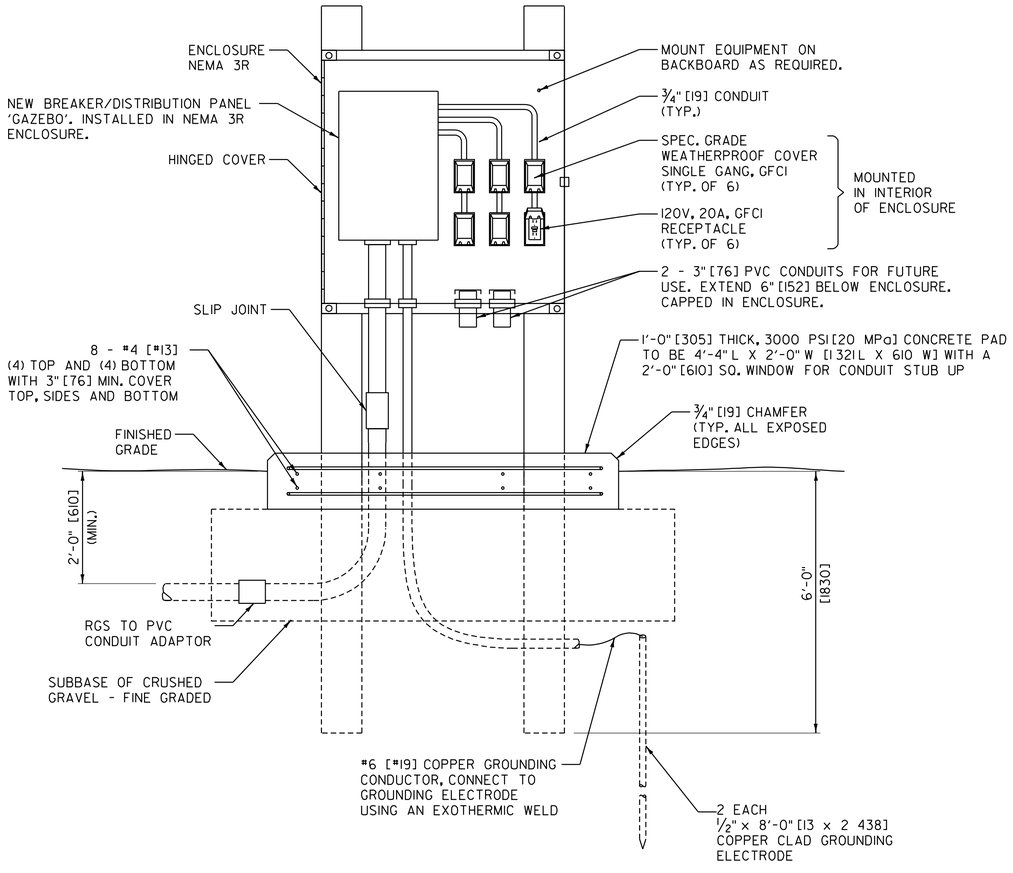
FILE NAME: zb008s6-lightdet.dgn
PROJECT LEADER: R.KISCHKO
DESIGNED BY: M.CROWLEY
PLOT DATE: 2/22/2017
DRAWN BY: M.CROWLEY
CHECKED BY: R.KISCHKO
SHEET 325 OF 601

ROBERT F. KISCHKO 15977 STATE OF VERMONT PROFESSIONAL ENGINEER

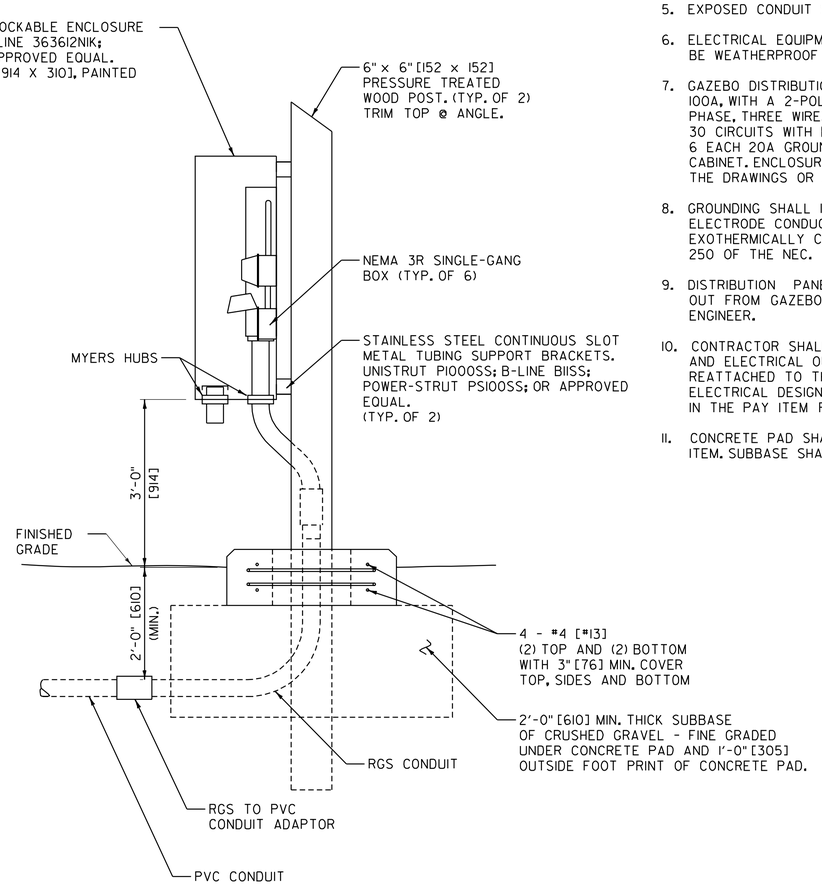
CLD 02-0448 MODEL: 3

ISSUED FOR CONSTRUCTION

VAOT Metric



FRONT VIEW (ENCLOSURE COVER REMOVED)



SIDE VIEW

NOTES:

1. PROVIDE ENCLOSURE NEMA 3R (HEAVY DUTY) WITH HINGED COVER AND PROVISIONS FOR PAD LOCKING WITH HASP CLOSURES. ENCLOSURE TO BE PAINTED FOREST/DARK GREEN.
2. CONDUIT TO BE MIN. 2'-0" [610] BELOW GRADE.
3. CONDUIT SHALL STUB UP THROUGH WINDOW IN CENTER OF CONCRETE PAD.
4. ALL CONDUIT CONNECTIONS AT ENCLOSURE SHALL BE MADE USING MYERS HUBS.
5. EXPOSED CONDUIT SHALL BE RIGID GALVANIZED STEEL (RGS).
6. ELECTRICAL EQUIPMENT AND INSTALLATION INSIDE ENCLOSURE SHALL BE WEATHERPROOF (NEMA 3R).
7. GAZEBO DISTRIBUTION PANEL SHALL CONSIST OF LOADCENTER RATED 100A, WITH A 2-POLE 100A MAIN CIRCUIT BREAKER, 120/240V, SINGLE PHASE, THREE WIRE, UL LISTED FOR SERVICE ENTRANCE. PANEL SCHEDULE: 30 CIRCUITS WITH BREAKERS AS INDICATED ON PANEL SCHEDULE. PROVIDE 6 EACH 20A GROUND FAULT DUPLEX RECEPTACLE INTERNAL TO THE CABINET. ENCLOSURE SHALL BE HEAVY DUTY LOCKABLE AS INDICATED ON THE DRAWINGS OR APPROVED EQUAL.
8. GROUNDING SHALL INCLUDE 2 EACH GROUND RODS AND #6 GROUNDING ELECTRODE CONDUCTOR IN 1/2" [13 MM] PVC SCHEDULE 40 CONDUIT, EXOTHERMICALLY CONNECTED TO THE GROUND ROD, ALL PER ART. 250 OF THE NEC.
9. DISTRIBUTION PANEL TO BE INSTALLED ADJACENT TO AND FACING OUT FROM GAZEBO. EXACT LOCATION TO BE DETERMINED BY THE ENGINEER.
10. CONTRACTOR SHALL BE AWARE THAT EXISTING LIGHTING AND ELECTRICAL OUTLETS ATTACHED TO THE GAZEBO SHALL BE REATTACHED TO THE RELOCATED GAZEBO. MODIFICATIONS TO THE ELECTRICAL DESIGN TO ACCOMMODATE THE PANEL SHALL BE INCLUDED IN THE PAY ITEM FOR SPECIAL PROVISION (RELOCATE GAZEBO).
11. CONCRETE PAD SHALL BE INCLUDED IN THE DISTRIBUTION PANEL PAY ITEM. SUBBASE SHALL BE PAID UNDER THE APPROPRIATE PAY ITEM.

GAZEBO DISTRIBUTION PANEL

NOT TO SCALE

CLD 02-0448 MODEL: 4

LIGHTING DETAILS

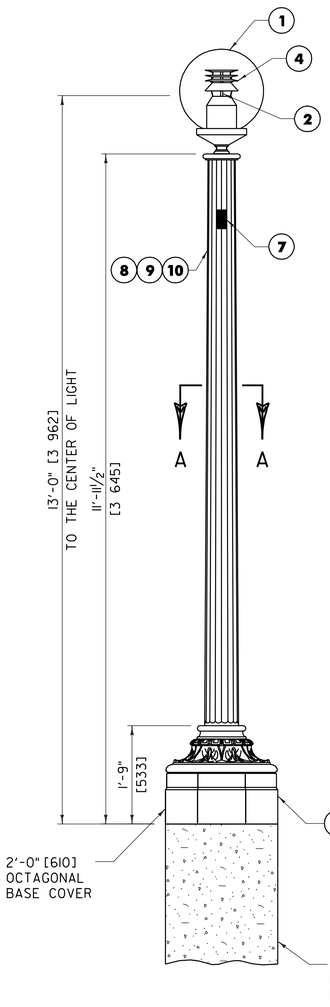
STATE OF VERMONT ROBERT F. KISCHKO 5977 PROFESSIONAL ENGINEER

PROJECT NAME:	BRANDON
PROJECT NUMBER:	NH 019-3(496)

FILE NAME: zb008s6-lightdet.dgn	PLOT DATE: 2/22/2017
PROJECT LEADER: R.KISCHKO	DRAWN BY: M.CROWLEY
DESIGNED BY: M.CROWLEY	CHECKED BY: R.KISCHKO
	SHEET 326 OF 601

ISSUED FOR CONSTRUCTION

VAOT Metric



LUMINAIRE:
LENS FINISH: POLYCARBANITE (WHITE)

HOUSING: ALUMINUM

LAMP:
TYPE: 60W LED

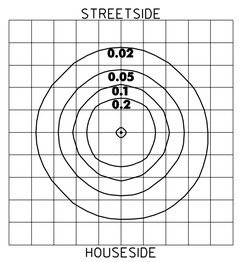
LUMENS: 3600

COLOR TEMP: 4000K

CAT. NO.:
SEE SPECIAL PROVISIONS FOR ACCEPTABLE MODELS

ANSI/IES TYPE:
TYPE V OPTICS

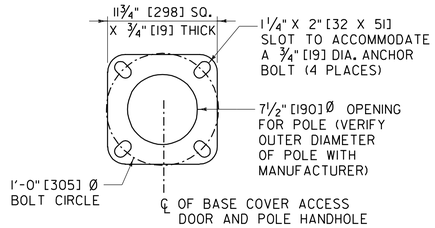
MOUNTING HEIGHT:
~13'-0" [3 962]



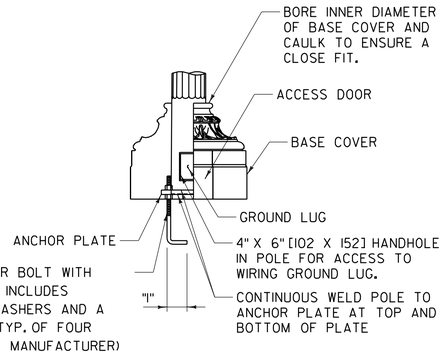
20'-0" [6 096] GRID DEPICTED

STREET LIGHT TYPE 'A' ISO-FOOTCANDLE DATA

SECTION A-A
16 SHARP FLUTE



ANCHOR PLATE DETAIL



STAINLESS STEEL ANCHOR BOLT WITH 6" [152] MIN. OF THREADS. INCLUDES (2) NUTS AND (2) FLAT WASHERS AND A PRESSWOOD TEMPLATE (TYP. OF FOUR EACH BASE; PROVIDED BY MANUFACTURER)

BASE DETAIL

TYPE 'A' STREET LIGHT DETAILS

NOT TO SCALE

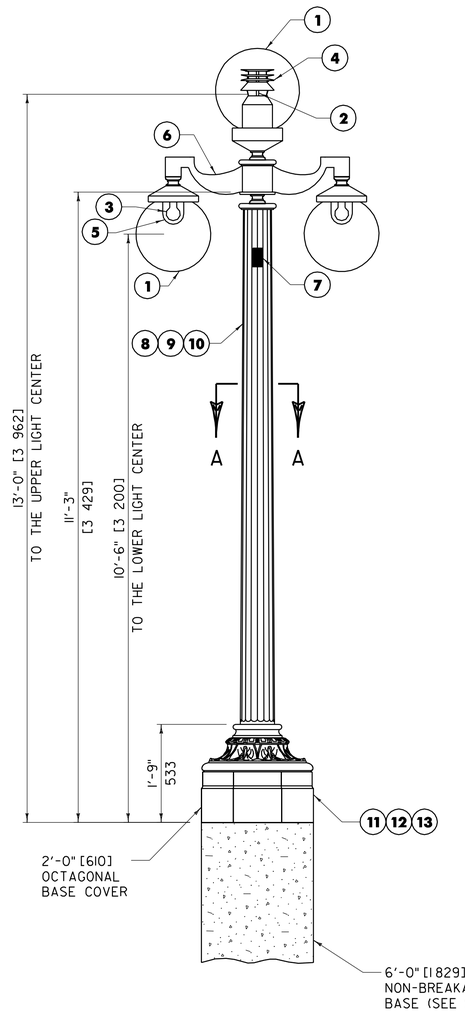
DESCRIPTION OF COMPONENTS FOR TYPE "A" AND TYPE "B" STREET LIGHTS:

POLE: 13'-0" [3 962] SEE SPECIAL PROVISIONS FOR ACCEPTABLE MODELS

LUMINAIRE: SEE ABOVE

1. LENS: 18" [457] GLOBE - POLYCARBONATE (WHITE). THE LENS SHALL SEAL AGAINST FLANGE BY ONE PIECE OF EXTRUDED SILICONE GASKET WITH FUSED SEAM TO PRODUCE A FULLY SEALED OPTICAL CHAMBER.
2. LAMP UPPER: 60 WATT LED, 3600 LUMENS
3. LAMP LOWER: 20 WATT LED, 1200 LUMENS
4. OPTICS UPPER: TYPE V INTERNAL STACKED REFLECTOR
5. OPTICS LOWER: INTERNAL GLASS REFRACTOR
6. ARM: CUSTOM TWIN ARM TO MATCH EXISTING BRANDON LIGHT POLES. THE TOWN SHALL PROVIDE MANUFACTURER WITH AN EXISTING ARM TO USE AS A PATTERN FOR A NEW MOLD. ONCE THE TOOLING AND PATTERN IS MADE, THE PATTERN CAN BE RETURNED TO THE TOWN OR STORED BY THE MANUFACTURER. ARM SHALL BE CONNECTED TO POLE WITH STAINLESS STEEL (HIDDEN) HARDWARE. UPPER AND LOWER LUMINAIRES SHALL BE ATTACHED TO ARM PER MANUFACTURER'S SPECIFICATIONS. REFER TO SPECIAL PROVISIONS FOR ADDITIONAL INFORMATION.
7. LUMINAIRE ASSEMBLY SHALL BE COMPLETE WITH A PROGRAMMABLE DRIVER AND ASSOCIATED PROGRAMMER TO ALLOW 0-100% DIMMING VIA CONTRACTOR FURNISHED PC. PROGRAMMER SHALL BE TURNED OVER TO THE TOWN ONCE PROGRAMMING IS COMPLETED, TESTED AND ACCEPTED. DRIVER SHALL ALLOW FOR WATTAGE SELECTION OF 40W, 50W AND 60W MINIMUM. PRESET DRIVER AT THE FACTORY TO 50W FOR THE 60W LUMINAIRES (UPPER GLOBE ASSEMBLY) LED ONLY. NOT REQUIRED FOR THE 20W (LOWER GLOVE ASSEMBLIES). CONTRACTOR SHALL PROVIDE ALL NECESSARY HARDWARE, SOFTWARE AND PC TO ALLOW FOR FIELD RE-PROGRAMMING FOR ALL LUMINAIRES IF REQUESTED BY THE ENGINEER. INCLUDE ALL LABOR AND EQUIPMENT (BUCKET TRUCK, SIGNAGE, TRAFFIC CONTROL, ETC.) NECESSARY FOR THIS RE-PROGRAMMING IF REQUESTED.
8. GFCI RECEPTACLES: TO BE INCLUDED ONLY ON SPECIFIC POLES IDENTIFIED ON THE ONE-LINE DIAGRAMS. REFER TO SPECIAL PROVISIONS FOR ADDITIONAL SPECIFICATIONS.
9. POLE: DUCTILE CAST IRON, TAPERED, 16 SHARP FLUTE, COLOR-BLACK. POLES SHALL WITHSTAND WINDS MEETING REQUIREMENTS OF SPECIFICATION 753.01.
10. POLE FINISH: IRON OXIDE RED PRIMER; ASTM 2500 HOUR SALT SPRAY TEST ENDURANCE RATING. FINISH COLOR: BLACK.
11. WIRING: INCLUDE WIRING FROM FIXTURE TO POLE BASE: 2#10, 1#10G CU. CONDUCTORS TO EXTEND 2'-0" [610] BEYOND BASE ACCESS DOOR. INCLUDE WIRING FOR RECEPTACLES WHERE APPLICABLE: 2#10, 1#10 GND, 1#10G CU. CONDUCTORS TO EXTEND 2'-0" [610] BEYOND BASE ACCESS DOOR.
12. BASE COVER: TWO-PIECE, WRAP-AROUND CAST-IRON, MECHANICALLY SECURED WITH STAINLESS STEEL HARDWARE. INCLUDES 4" X 6" [102 X 152] ACCESS DOOR.
13. DRIVERS: ALL ELECTRICAL COMPONENTS ARE UL AND CSA RECOGNIZED AND FACTORY PREWIRED WITH QUICK-DISCONNECT PLUGS FOR ATTACHMENT TO THE INCOMING WIRES AND THE LAMP MODULES. ALL DRIVERS ARE HIGH POWER FACTOR WITH STARTING TEMPERATURES OF -20F [-29C] FOR LED DRIVERS. DRIVERS SHALL BE MULTI-TAP, WIRED AT 240V.
14. FUSING: PROVIDE FUSE AT BASE. SEE NOTE ON ONE-LINE DIAGRAMS.

WARNING: DO NOT INSTALL POLES WITHOUT LUMINAIRES OR STRENGTH GUARANTEE IS VOIDED. ANY UNAUTHORIZED ACCESSORIES SECURED TO POLE SHALL VOID STRENGTH GUARANTEE.



LUMINAIRE:
LENS FINISH: POLYCARBONATE (WHITE)

HOUSING: ALUMINUM

LAMP UPPER:
TYPE: 60W LED

LUMENS: 3600

COLOR TEMP: 4000K

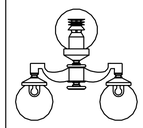
CAT. NO.:
SEE SPECIAL PROVISIONS FOR ACCEPTABLE MODELS

LAMP LOWER (2):
TYPE: 20W LED

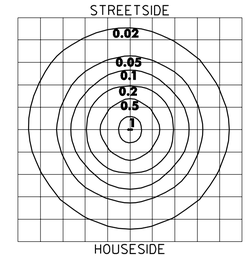
LUMENS: 1200

CAT. NO.:
SEE SPECIAL PROVISIONS FOR ACCEPTABLE MODELS

ANSI/IES TYPE:
TYPE V OPTICS



MOUNTING HEIGHT:
~13'-0" [3 962] (UPPER)
~10'-6" [3 200] (LOWER)



20'-0" [6 096] GRID DEPICTED

STREET LIGHT TYPE 'B' ISO-FOOTCANDLE DATA

TYPE 'B' STREET LIGHT DETAILS

NOT TO SCALE

NOTES:

1. THE PAY ITEM FOR EACH ORNAMENTAL STREET LIGHT ASSEMBLY INCLUDES:
   TYPE A: (1) LIGHT POLE, (1) LUMINAIRE AND (1) LIGHT POLE BASE.
   TYPE B: (1) LIGHT POLE, (1) BRACKET ARM, (3) LUMINARIES AND (1) LIGHT POLE BASE.
2. SEE STANDARD T-133 FOR ADDITIONAL INFORMATION RELATIVE TO THE INSTALLATION OF STREET LIGHTING WITH CONCRETE BASE.
3. ANY EXCAVATION NECESSARY TO INSTALL LIGHT POLE BASE SHALL BE INCIDENTAL TO THE APPLICABLE STREET LIGHT ASSEMBLY PAY ITEM.

CLD 02-0448 MODEL: 5

LIGHTING DETAILS

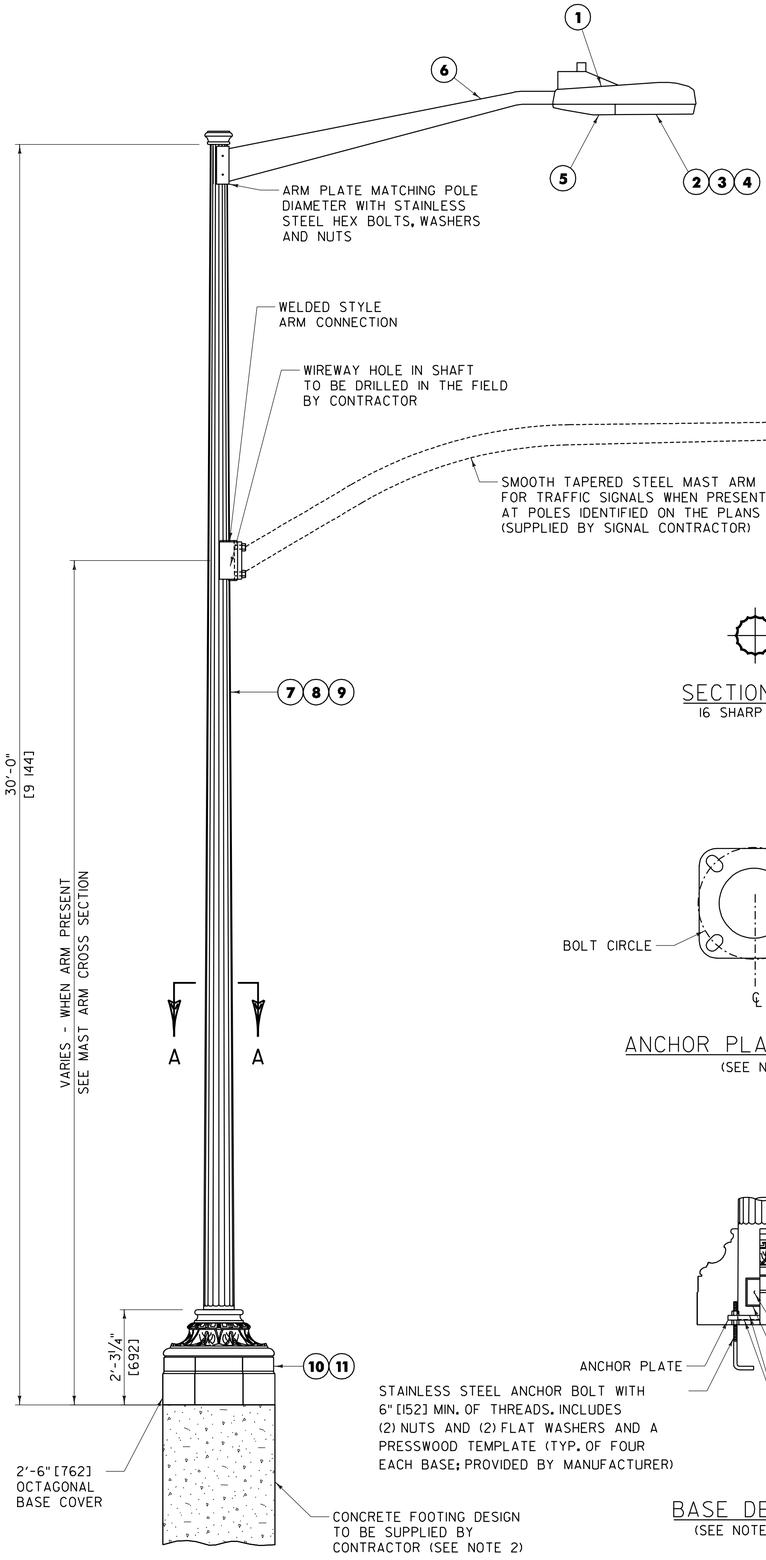
PROJECT NAME: BRANDON
PROJECT NUMBER: NH 019-3(496)

FILE NAME: zb008s6-lightdet.dgn
PROJECT LEADER: R.KISCHKO
DESIGNED BY: M.CROWLEY
PLOT DATE: 2/22/2017
DRAWN BY: M.CROWLEY
CHECKED BY: R.KISCHKO
SHEET 327 OF 601

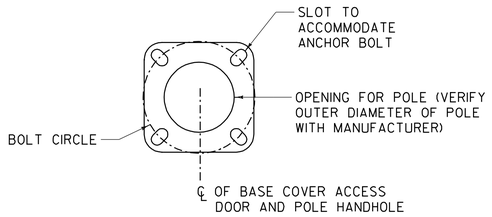
STATE OF VERMONT ROBERT P. KISCHKO 5977 PROFESSIONAL ENGINEER

ISSUED FOR CONSTRUCTION

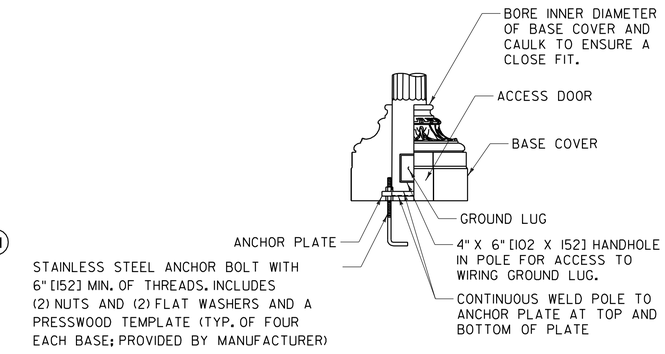
VAOT Metric



SECTION A-A
16 SHARP FLUTE



ANCHOR PLATE DETAIL
(SEE NOTE 2)



BASE DETAIL
(SEE NOTE 2)

LUMINAIRE:
FINISH: BLACK

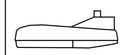
LAMP:
TYPE: LED STREET LIGHT (COBRAHEAD)

COLOR TEMP: 4000K

DISTRIBUTION: TYPE 3

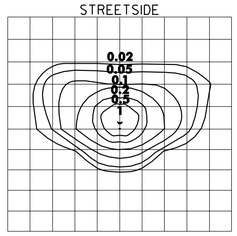
CAT. NO.:
SEE SPECIAL PROVISIONS FOR ACCEPTABLE MODELS

ANSI/IES TYPE:
TYPE III OPTICS



MOUNTING HEIGHT:
~30'-0" [9 144]

STREETSIDE



HOUSESIDE

20'-0" [6 096] GRID DEPICTED

STREET LIGHT TYPE 'C'
ISO-FOOTCANDLE DATA

DESCRIPTION OF COMPONENTS FOR TYPE 'C' STREET LIGHT:

POLE: 30'-0" [9 144] SEE SPECIAL PROVISIONS FOR ACCEPTABLE MODELS.

1. LUMINAIRE: DIE-CAST ALUMINUM WITH ELECTROSTATICALLY APPLIED PAINT FINISH, COLOR IS BLACK, TEXTURE IS SMOOTH, "POWER DOOR" MOUNTED BALLAST, UL LISTED, MOUNTING HEIGHT SHALL BE 30'-0" [9 144] ABOVE ROADWAY SURFACE. DLC LISTED, DARK SKY COMPLIANT. IP 66 RATED.
2. LAMP: 60 LED, 13400 LUMENS, EFFICACY (Lm/W):101 COLOR TEMPERATURE: 4000 K
3. OPTICS: TYPE III, MEDIUM DISTRIBUTION, FULL CUTOFF.
4. LENS: MICRO-LENS OPTICAL SYSTEM, ISNA TYPE 3 DISTRIBUTION.
5. ARM: ARM MADE OF CAST ALUMINUM, MECHANICALLY SECURED TO THE RETAINING ADAPTER, UPSWEEP STYLE, MEETING REQUIREMENTS OF SPECIFICATION 753.01. COLOR-BLACK. REQUIRED BRACKET ARM LENGTH AND ORIENTATION IS SHOWN ON THE LIGHTING PLANS FOR EACH LOCATION.
6. POLE: DUCTILE CAST IRON, 16 SHARP FLUTE, COLOR-BLACK. LIGHT POLES SHALL MEET REQUIREMENTS OF SPECIFICATION 753.01. POLES WITH MAST ARMS SHALL ALSO MEET DESIGN REQUIREMENTS OUTLINED IN TRAFFIC SIGNAL SUPPORT GENERAL NOTES.
7. POLE FINISH: IRON OXIDE RED PRIMER; ASTM 2500 HOUR SALT SPRAY TEST ENDURANCE RATING. FINISH COLOR: BLACK
8. WIRING: INCLUDE WIRING FROM FIXTURE TO POLE BASE: 2#10, 1#10G CU. CONDUCTORS TO EXTEND 2'-0" [610] BEYOND BASE ACCESS DOOR.
9. BASE COVER: TWO-PIECE, WRAP-AROUND CAST-IRON, MECHANICALLY SECURED WITH STAINLESS STEEL HARDWARE. INCLUDES 4" X 6" [102 X 152] ACCESS DOOR.
10. FUSING: PROVIDE FUSE AT BASE. SEE NOTE ON ONE-LINE DIAGRAMS.
11. DRIVERS: ALL ELECTRICAL COMPONENTS ARE TO BE UL AND CSA RECOGNIZED AND FACTORY PRE-WIRED WITH QUICK DISCONNECT PLUGS FOR ATTACHMENT TO THE INCOMING WIRES AND THE LAMP MODULES. ALL DRIVERS SHALL BE HIGH POWER FACTOR WITH STARTING TEMPERATURES OF -20F [-29C]. ALL DRIVERS SHALL BE MULTI-TAP, WIRED AT 240V.

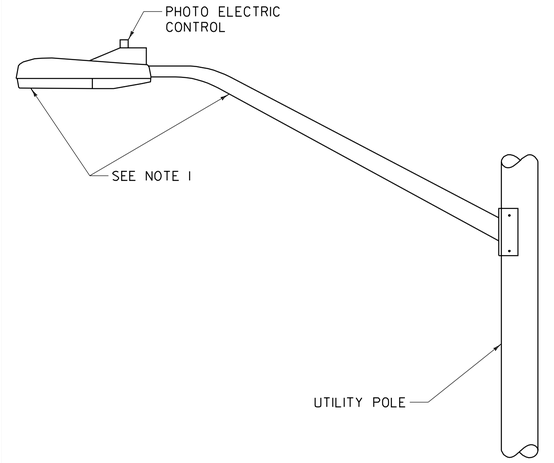
WARNING: DO NOT INSTALL POLES WITHOUT LUMINAIRES OR STRENGTH GUARANTEE IS VOIDED. ANY UNAUTHORIZED ACCESSORIES SECURED TO POLE SHALL VOID STRENGTH GUARANTEE.

NOTES:

1. THE PAY ITEM FOR TYPE 'C' ORNAMENTAL STREET LIGHT INCLUDES: (1) LIGHT POLE, (1) ARM, (1) LUMINAIRE AND (1) LIGHT POLE BASE.
2. SEE STANDARDS T-133 FOR ADDITIONAL INFORMATION RELATIVE TO THE INSTALLATION OF STREET LIGHTING WITH CONCRETE BASE.
3. ANY EXCAVATION NECESSARY TO INSTALL LIGHT POLE BASE SHALL BE INCIDENTAL TO THE APPLICABLE STREET LIGHT ASSEMBLY PAY ITEM.

TYPE 'C' STREET LIGHT DETAILS

NOT TO SCALE



NOTES:

1. LUMINAIRE AND ARM SUPPLIED BY AND MOUNTED TO RELOCATED UTILITY POLES BY GMP. EXISTING LED LUMINAIRES AND EXISTING ARMS IN GOOD CONDITION MAY BE RESET ON RELOCATED UTILITY POLES. ADDITIONAL LUMINAIRES, IF REQUIRED, SHALL MATCH THE EXISTING LUMINAIRES. REQUIRED BRACKET ARM LENGTH AND ORIENTATION IS SHOWN ON THE LIGHTING PLANS AT EACH POLE LOCATION. PROVISION FOR PHOTO ELECTRIC CONTROL AND NEMA PHOTOELECTRIC RECEPTACLE DEPICTED.

TYPE 'D' STREET LIGHT DETAILS

NOT TO SCALE

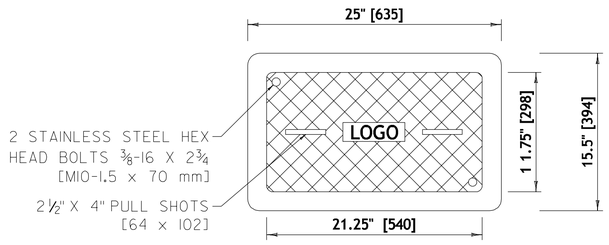
STATE OF VERMONT ROBERT F. KISCHKO 15977 PROFESSIONAL ENGINEER

LIGHTING DETAILS

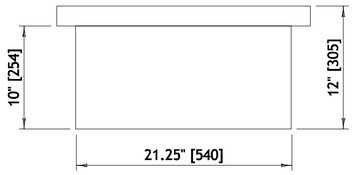
PROJECT NAME: BRANDON
PROJECT NUMBER: NH 019-3(496)

FILE NAME: zb008s6-lightdet.dgn
PROJECT LEADER: R.KISCHKO
DESIGNED BY: M.CROWLEY
PLOT DATE: 2/22/2017
DRAWN BY: M.CROWLEY
CHECKED BY: R.KISCHKO
SHEET 328 OF 601

CLD 02-0448 MODEL: 6



PLAN VIEW



ELEVATION VIEW

NOTES:

1. JUNCTION BOX SHALL BE CONSTRUCTED WITH CONCRETE, CLASS B.
2. CONDUIT SIZE SHALL BE AS SHOWN ON THE PLANS.
3. EXCAVATION FOR JUNCTION BOX SHALL INCLUDE EXCAVATION OF AN AREA ONE FOOT [300] OUTSIDE AND EXTENDING ONE FOOT [305] BELOW THE FINISH GRADE OF THE BOTTOM OF THE JUNCTION BOX. ONE FOOT [305] GRANULAR MATERIAL THAT MEETS THE REQUIREMENTS OF SUBSECTION 703.04, SHALL BE PLACED IN THE EXCAVATED AREA AND PROPERLY COMPACTED PRIOR TO INSTALLATION. COMPACTION SHALL MEET REQUIREMENTS OF SUBSECTION 301.06. WHERE NECESSARY AND AT THE DISCRETION OF THE ENGINEER, A DRAINAGE PIPE (MINIMUM 3 INCH [76] PERFORATED PVC) SHALL BE PROVIDED FROM THE JUNCTION BOX TO THE NEAREST APPROPRIATE OUTLET. ANY EXCAVATION AND DRAINAGE SHALL BE PAID FOR AS PART OF THE JUNCTION BOX ITEM.
4. ALL EXPOSED METAL HARDWARE, INCLUDING PULLBOX COVERS, FRAMES AND ANGLES, SHALL BE STAINLESS STEEL.
5. A SUFFICIENT COVER GASKET SHALL BE PROVIDED TO REDUCE THE INFLOW OF FLUIDS. THE COVER GAPS SHALL BE FILLED WITH CAULKING JUST PRIOR TO PROJECT COMPLETION.
6. WHEN INSTALLING ON SLOPES, JUNCTION BOXES SHALL BE TIPPED TO MATCH THE EXISTING SLOPE UP TO A 1 ON 4 SLOPE. EXCAVATED MATERIAL SHALL BE USED TO SHAPE AROUND THE LOW SIDE OF THE BOX TO THE SATISFACTION OF THE ENGINEER AND SHALL BE MOW-ABLE. IF SUFFICIENT MATERIAL IS NOT AVAILABLE, MATERIAL MEETING THE REQUIREMENTS OF EARTH BORROW (SUBSECTION 703.02) SHALL BE USED. PAYMENT SHALL BE CONSIDERED PART OF THE JUNCTION BOX ITEM.
7. ALL COVERS SHALL BE FLUSH WITH THE BOXES AND FRAMES.
8. ALL CONDUIT ENTERING THE JUNCTION BOX THROUGH A CUTOUT SHALL HAVE BUSHINGS TO PROTECT THE CABLES.
9. ALL JUNCTION BOX COVERS SHALL BE SKID RESISTANT.
10. ALL COVERS SHALL HAVE THE LOGO PUNCHED, FORMED OR STAMPED INTO A FLAT RECTANGULAR AREA. MINIMUM LETTER HEIGHT IS ½" [13]. MINIMUM DEPTH IS 1/16" [2].
11. ALTERNATIVE LOGO NAMES:
    SIGNAL
    ELECTRIC
    LIGHTING
12. DIMENSIONS SHOWN ARE MINIMUM SIZE REQUIRED. EQUIVALENT JUNCTION BOX OF LARGER DIMENSIONS MAY BE USED.
13. JUNCTION BOX SHALL BE PAID FOR UNDER 900.620 SPECIAL PROVISION (JUNCTION BOX, HEAVY DUTY)

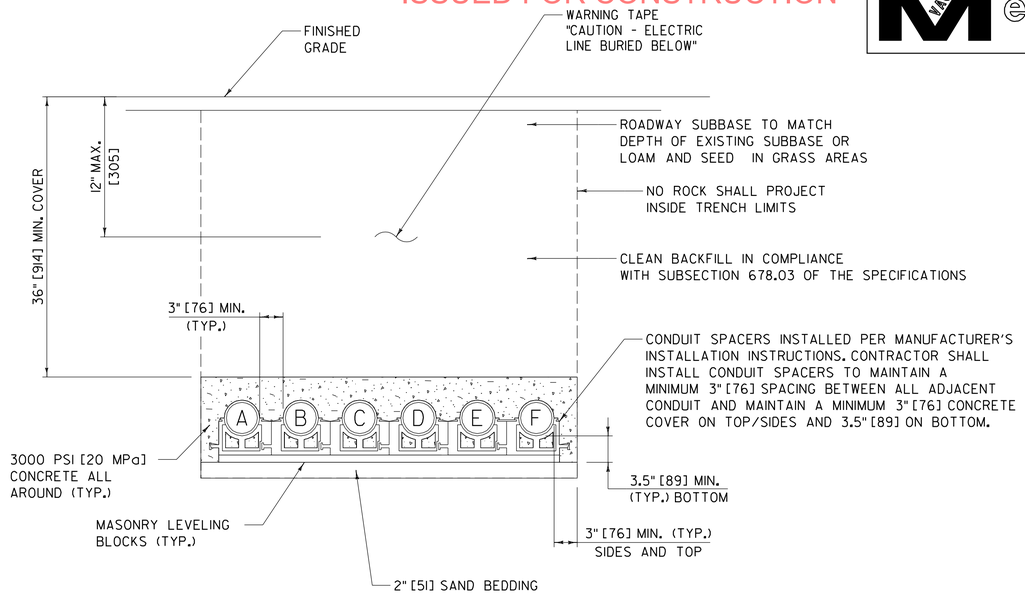
JUNCTION BOX DETAIL

NOT TO SCALE

CLD 02-0448 MODEL: 7

ISSUED FOR CONSTRUCTION

VAOT Metric

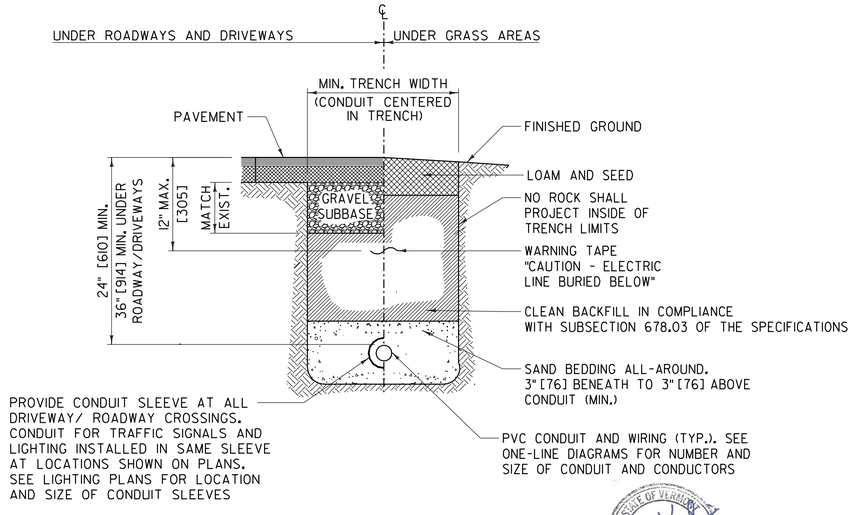


NOTES:

1. REFER TO LIGHTING PLAN 8 FOR LOCATION OF DUCTBANK. CONDUIT CONFIGURATION AND SIZE SHALL BE AS INDICATED BELOW OR AS DIRECTED BY THE ENGINEER.
   - A: 4" [102] SCH 40 PVC FOR LIGHTING.
   - B: 4" [102] SCH 40 PVC FOR CONDUCTORS TO GAZEBO DISTRIBUTION PANEL AND FOUNTAIN.
   - C: 2" [51] SCH 40 PVC FOR LIGHTING.
   - D: 2" [51] SCH 40 PVC FOR TRAFFIC SIGNALS.
   - E: 2" [51] SCH 40 PVC FOR TRAFFIC SIGNALS.
   - F: 2" [51] SCH 40 PVC FOR TRAFFIC SIGNALS (SPARE).
2. BOTTOM OF TRENCH SHALL BE UNDISTURBED ORIGINAL GROUND OR FIRMLY COMPACTED EARTH FREE FROM VOIDS, ROCK, RUBBLE AND RELATIVELY SMOOTH AND LINED WITH MASONRY LEVELING BLOCKS (FOR BASE SPACERS) ON A 2" [51] BED OF CLEAN SAND.

CONCRETE ENCASED DUCTBANK SECTION

NOT TO SCALE



STATE OF VERMONT ROBERT F. KISCHKO 6977 PROFESSIONAL ENGINEER

TYPICAL TRENCH SECTION

NOT TO SCALE

LIGHTING DETAILS

PROJECT NAME: BRANDON
PROJECT NUMBER: NH 019-3(496)

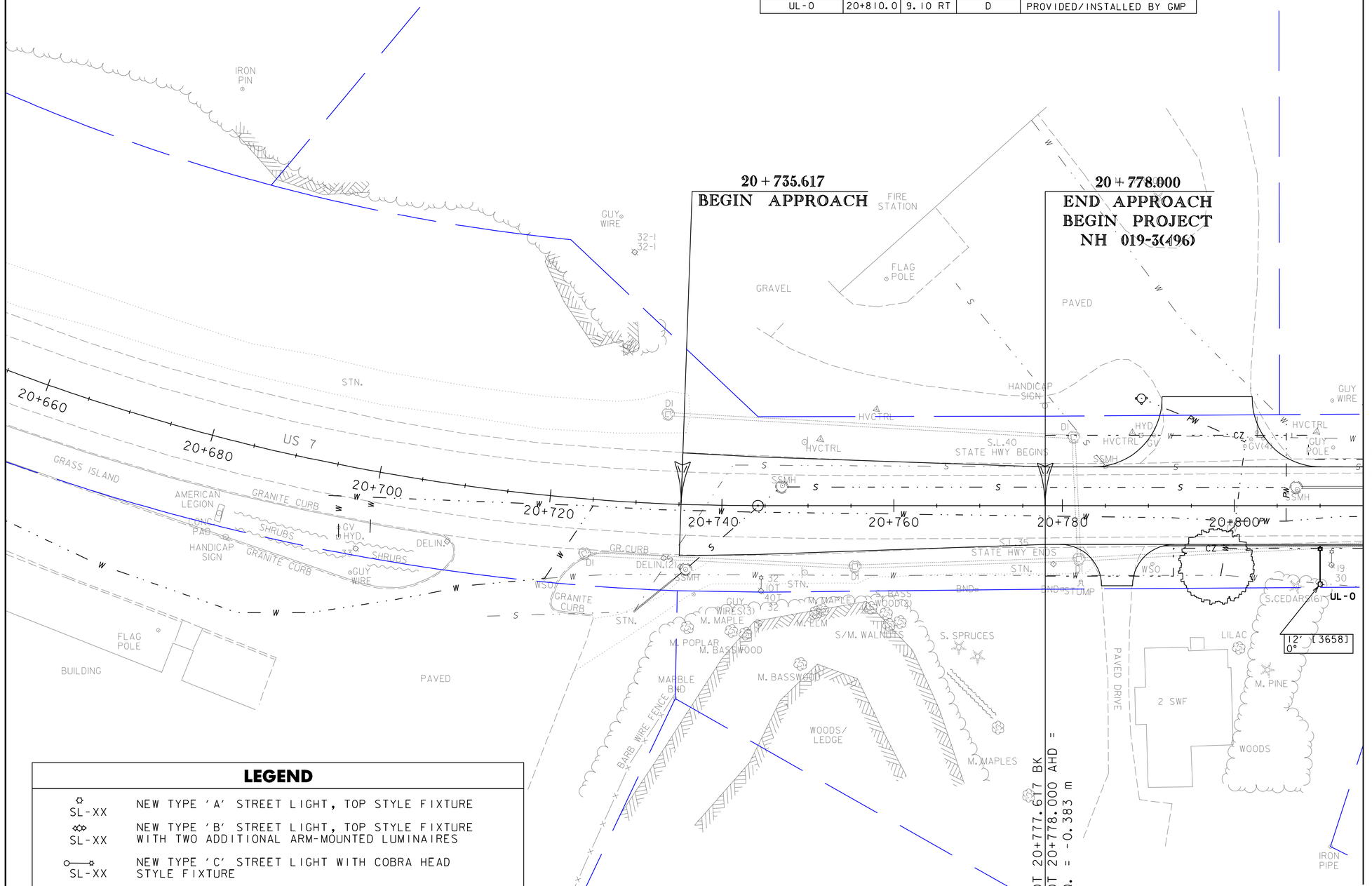
FILE NAME: zb008s6-lightdet.dgn
PROJECT LEADER: R.KISCHKO
DESIGNED BY: M.CROWLEY
PLOT DATE: 2/22/2017
DRAWN BY: M.CROWLEY
CHECKED BY: R.KISCHKO
SHEET 329 OF 601

ISSUED FOR CONSTRUCTION

VAOT Metric

VT STATE PLANE GRID N

STREET LIGHTING LOCATION SCHEDULE				
ID	LOCATION	OFFSET	TYPE	REMARKS
UL-0	20+810.0	9.10 RT	D	PROVIDED/INSTALLED BY GMP



LEGEND

SL-XX	NEW TYPE 'A' STREET LIGHT, TOP STYLE FIXTURE
SL-XX	NEW TYPE 'B' STREET LIGHT, TOP STYLE FIXTURE WITH TWO ADDITIONAL ARM-MOUNTED LUMINAIRES
SL-XX	NEW TYPE 'C' STREET LIGHT WITH COBRA HEAD STYLE FIXTURE
UL-XX	NEW TYPE 'D' COBRA HEAD STYLE FIXTURE MOUNTED ON UTILITY POLE
##' [####] X°	## INDICATES LENGTH OF OVERALL LIGHT BRACKET ARM IN FEET AND [MILLIMETERS] X° INDICATES ORIENTATION OF PROPOSED BRACKET ARM AS MEASURED IN DEGREES FROM A PERPENDICULAR TO THE US 7 CENTERLINE
HH-XX	JUNCTION BOX - PAID FOR AS SPECIAL PROVISION (JUNCTION BOX, HEAVY DUTY)
	UNDERGROUND ELECTRICAL CONDUIT. SEE ONE-LINE DIAGRAMS FOR ADDITIONAL INFORMATION
	UNDERGROUND ELECTRICAL CONDUIT IN SLEEVE

NOTES:

1. NO PROPOSED LIGHTING THIS SHEET.

STATE OF VERMONT ROBERT F. KISCHKO 15977 PROFESSIONAL ENGINEER

0 10 20 30

SCALE IN METERS

LIGHTING PLAN I

PROJECT NAME: BRANDON
PROJECT NUMBER: NH 019-3(496)

FILE NAME: zb008s6-light.dgn
PROJECT LEADER: R.KISCHKO
DESIGNED BY: M.CROWLEY
PLOT DATE: 2/22/2017
DRAWN BY: M.CROWLEY
CHECKED BY: R.KISCHKO
SHEET 330 OF 601

CLD 02-0448 MODEL:1

ISSUED FOR CONSTRUCTION

VAOT Metric

VT STATE PLANE GRID N

STREET LIGHTING LOCATION SCHEDULE

ID	LOCATION	OFFSET	TYPE	REMARKS
UL-1	20+901.5	7.60 LT	D	PROVIDED/INSTALLED BY GMP

MATCH LINE 20+815

MATCH LINE 20+950

BM #3
TOP OF S.E. SIGN BASE BOLT
ELEV. = 142.979 m

GARAGE
GRAVEL
CONC.
CONC.
PAVED
WOODS
M. ELM
M. ASH
26 B.ELDER
L. APPLE
26 M. MAPLES
M. ELM
M. B.ELDER
WD. WALL
DITCH
S. SPRUCES
HVCTRL
SHRUBS
S. APPLE
GRAVEL DRIVE
GAR.
PAVED DRIVE
GRAVEL
WOODS
HVCTRL
M. MAPLES
WD. WALL
L. CEDAR
10° [3048]
0°
LILAC(2)
1½SWF
SHRUB
1½SWF
SHRUBS
1½SWF
PAVED DRIVE
1½SWF
SHRUBS WD.
LILACS
CONC.
HVCTRL
PARTSCH PLUS
WSO
W
HVCTRL
CZ
S
GUY POLE
2S
HOWL.
SHRUB
WD. FENCE
S. CR.APPLE STN.
BND
HYD
SSMH
CONC. CURB
UL-1
HVCTRL
FLAG POLE
M.S STUMP
STN.
CONC. CURB
CONC. CURB
PAVED WALK
WSO
CZ
W
US 7
20+820
PW
20+840
20+860
20+880
20+900
20+920
20+940
DMH
CZ
18
29
S GUY WIRE
HVCTRL
IRON PIN
W
S. SPRUCE
M. APPLE
PAVED
RESVD. PARKING
BUILDING
PAVED
FLAG POLE
PAVED
CONC. PAD
CONC. PAD
PAVED
GRAVEL
CPEP DI
IRON PIPE
HVCTRL
PAVED
STEEL POSTS(4)
SHRUB
HVCTRL
STEEL POST
WSO
S.APPLE
WSO
W
HVCTRL
DI
HVCTRL
PUMP POLE
S
CZ
40+020
PW
40+040
PW
40+060
PW
HIGH ST. - TH-62
GUY WIRES
PIPE
HVCTRL
M. ASH
M. MAPLE
PAVED
SHRUB
PAVED
SHRUBS
SHRUB
M. MAPLE
2 SWF
CONC. PAD
L.STUMP
CONC.
GARDEN
BND
M. MAPLES
PAVED
CZ
STN. WALL
GARDEN
L.STUMP
M. MAPLE
S. MAPLE
M. MAPLE
GARDEN
PAVED WALK
M. MAPLE
LIGHT
1½SWF
LILACS
PAVED
WSO
PAVED
LIGHT
CONC.
STEP
L. MAPLE
S. B.ELDER
GAR.
M.WBIRCH
PAVED WALK
BND
PAVED
IRON PIPE

40 + 070.000
LIMIT OF WORK

0 10 20 30
SCALE IN METERS

STATE OF VERMONT
ROBERT F. KISCHKO
15977
PROFESSIONAL ENGINEER

LIGHTING PLAN 2

PROJECT NAME: BRANDON
PROJECT NUMBER: NH 019-3(496)

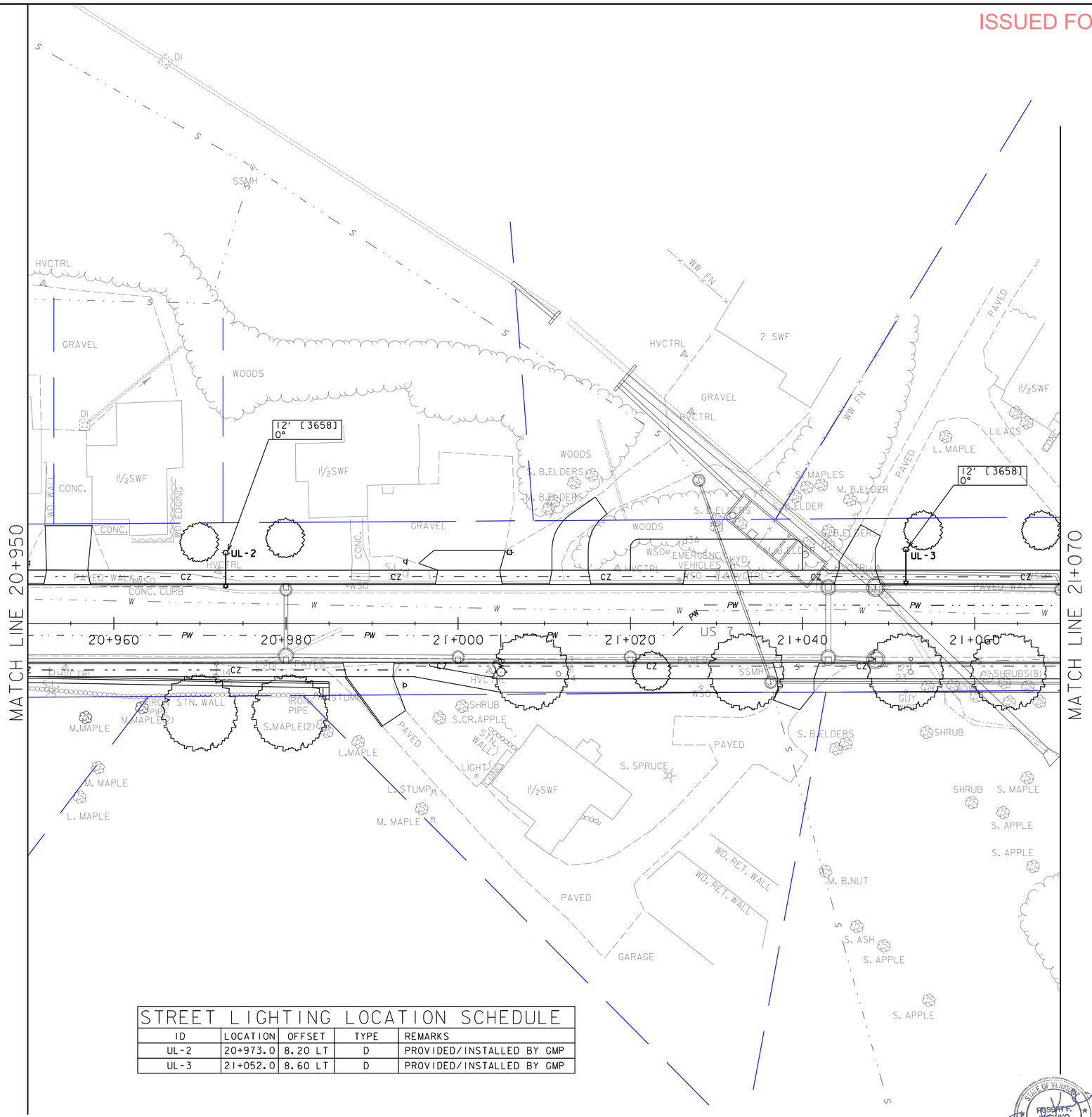
FILE NAME: zb008s6-light.dgn
PROJECT LEADER: R.KISCHKO
DESIGNED BY: M.CROWLEY
PLOT DATE: 2/22/2017
DRAWN BY: M.CROWLEY
CHECKED BY: R.KISCHKO
SHEET 331 OF 601

CLD 02-0448 MODEL: 2

ISSUED FOR CONSTRUCTION

VAOT Metric

VT STATE PLANE GRID N



STREET LIGHTING LOCATION SCHEDULE				
ID	LOCATION	OFFSET	TYPE	REMARKS
UL-2	20+973.0	8.20 LT	D	PROVIDED/INSTALLED BY GMP
UL-3	21+052.0	8.60 LT	D	PROVIDED/INSTALLED BY GMP

0 10 20 30

SCALE IN METERS

STATE OF VERMONT ROBERT P. KISCHKO 5977 PROFESSIONAL ENGINEER

LIGHTING PLAN 3

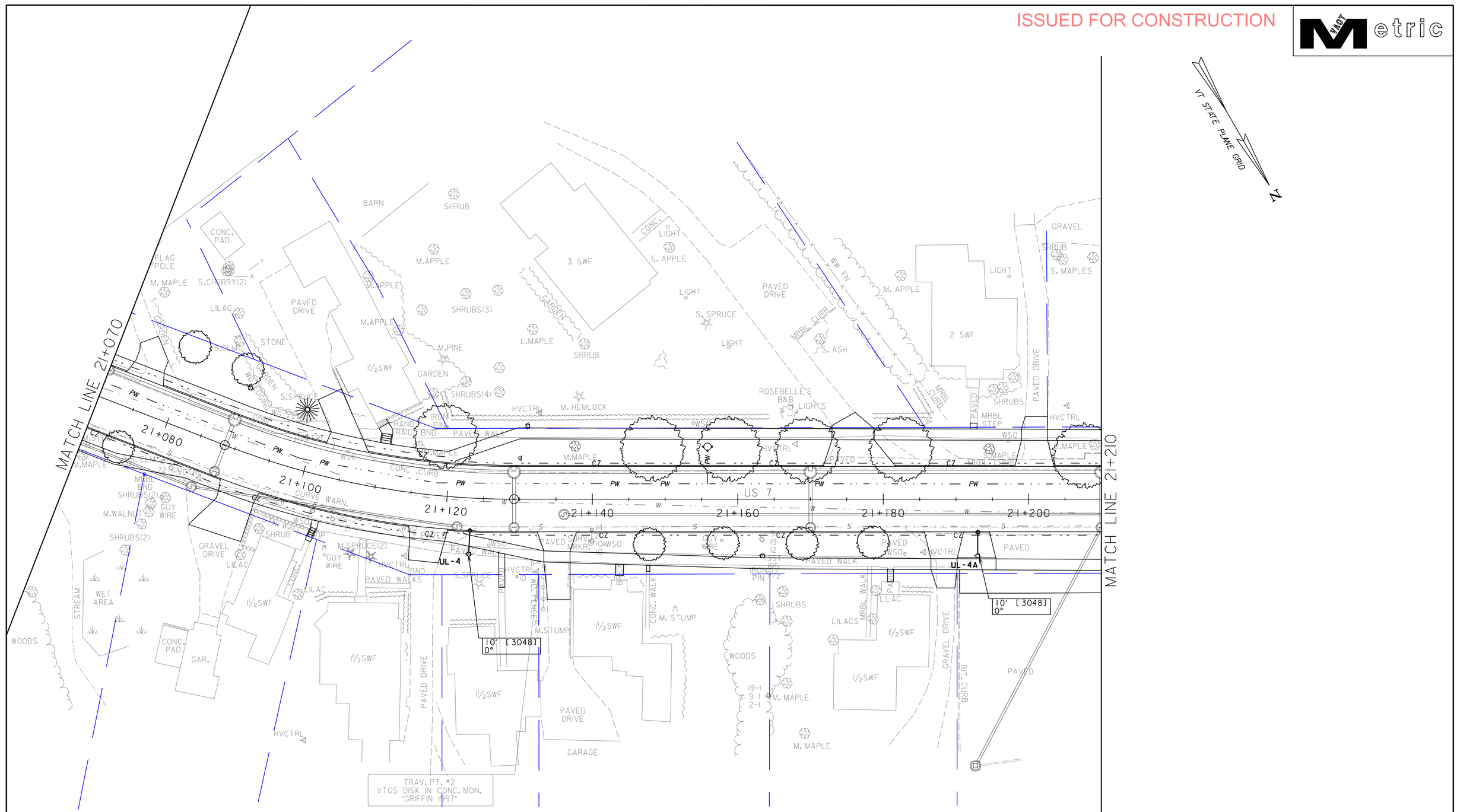
PROJECT NAME: BRANDON
PROJECT NUMBER: NH 019-3(496)

FILE NAME: zb008s6-light.dgn
PROJECT LEADER: R.KISCHKO
DESIGNED BY: M.CROWLEY
PLOT DATE: 2/22/2017
DRAWN BY: M.CROWLEY
CHECKED BY: R.KISCHKO
SHEET 332 OF 601

CLD 02-0448 MODEL: 3

ISSUED FOR CONSTRUCTION

VAOT Metric



STREET LIGHTING LOCATION SCHEDULE

ID	LOCATION	OFFSET	TYPE	REMARKS
UL-4	21+123.4	7.70 RT	D	PROVIDED/INSTALLED BY GMP
UL-4A	21+193.0	7.80 RT	D	PROVIDED/INSTALLED BY GMP

STATE OF VERMONT
ROBERT F. KISCHKO
5977
PROFESSIONAL ENGINEER

0 10 20 30
SCALE IN METERS

LIGHTING PLAN 4

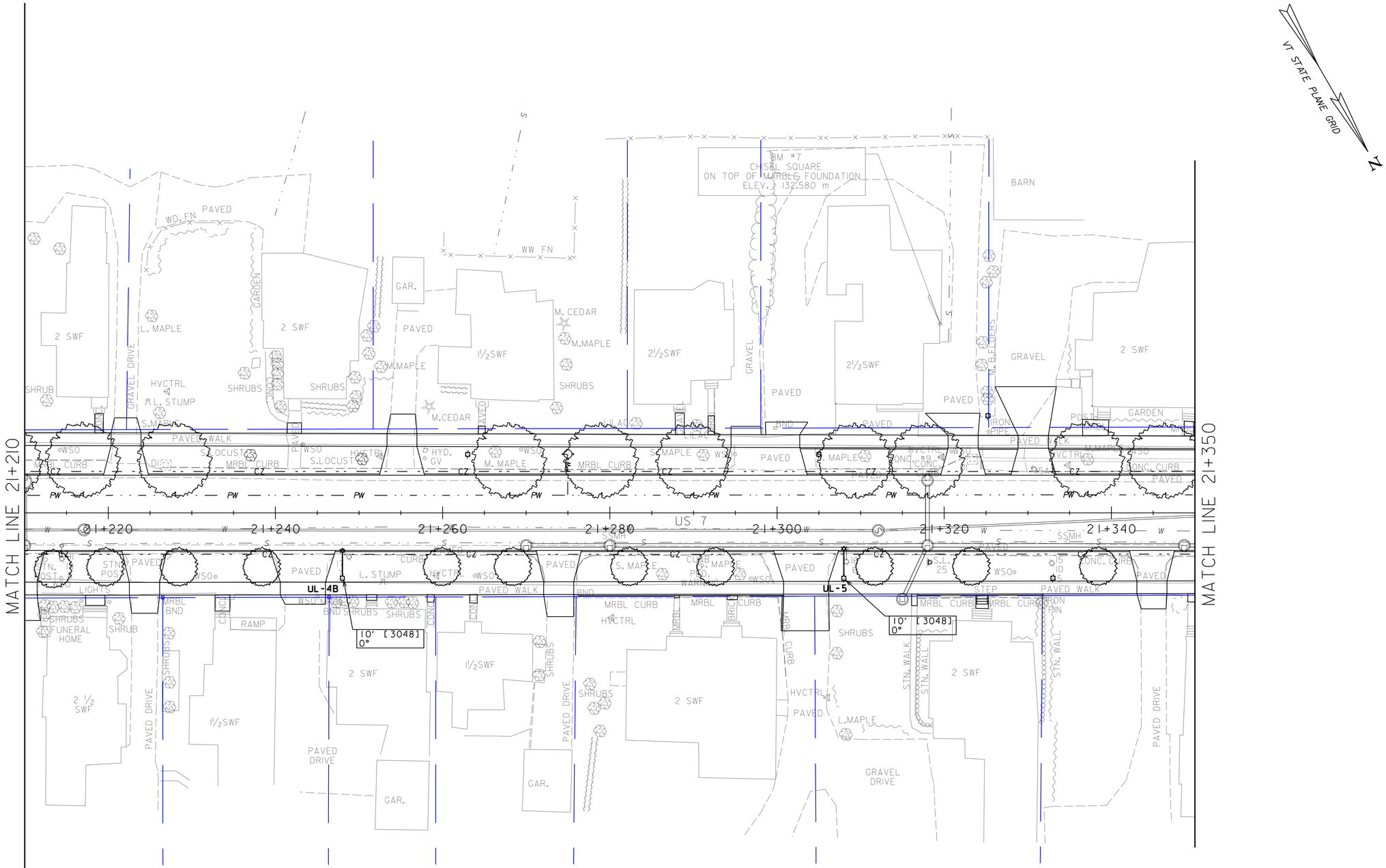
PROJECT NAME: BRANDON
PROJECT NUMBER: NH 019-3(496)

FILE NAME: zb008s6-light.dgn
PROJECT LEADER: R.KISCHKO
DESIGNED BY: M.CROWLEY
PLOT DATE: 2/22/2017
DRAWN BY: M.CROWLEY
CHECKED BY: R.KISCHKO
SHEET 333 OF 601

CLD 02-0448 MODEL: 4

ISSUED FOR CONSTRUCTION

VAOT Metric



STREET LIGHTING LOCATION SCHEDULE

ID	LOCATION	OFFSET	TYPE	REMARKS
UL-4B	21+248.0	7.80 RT	D	PROVIDED/INSTALLED BY GMP
UL-5	21+308.0	7.80 RT	D	PROVIDED/INSTALLED BY GMP

STATE OF VERMONT
ROBERT F. KISCHKO
5977
PROFESSIONAL ENGINEER

0 10 20 30
SCALE IN METERS

LIGHTING PLAN 5

PROJECT NAME: BRANDON
PROJECT NUMBER: NH 019-3(496)

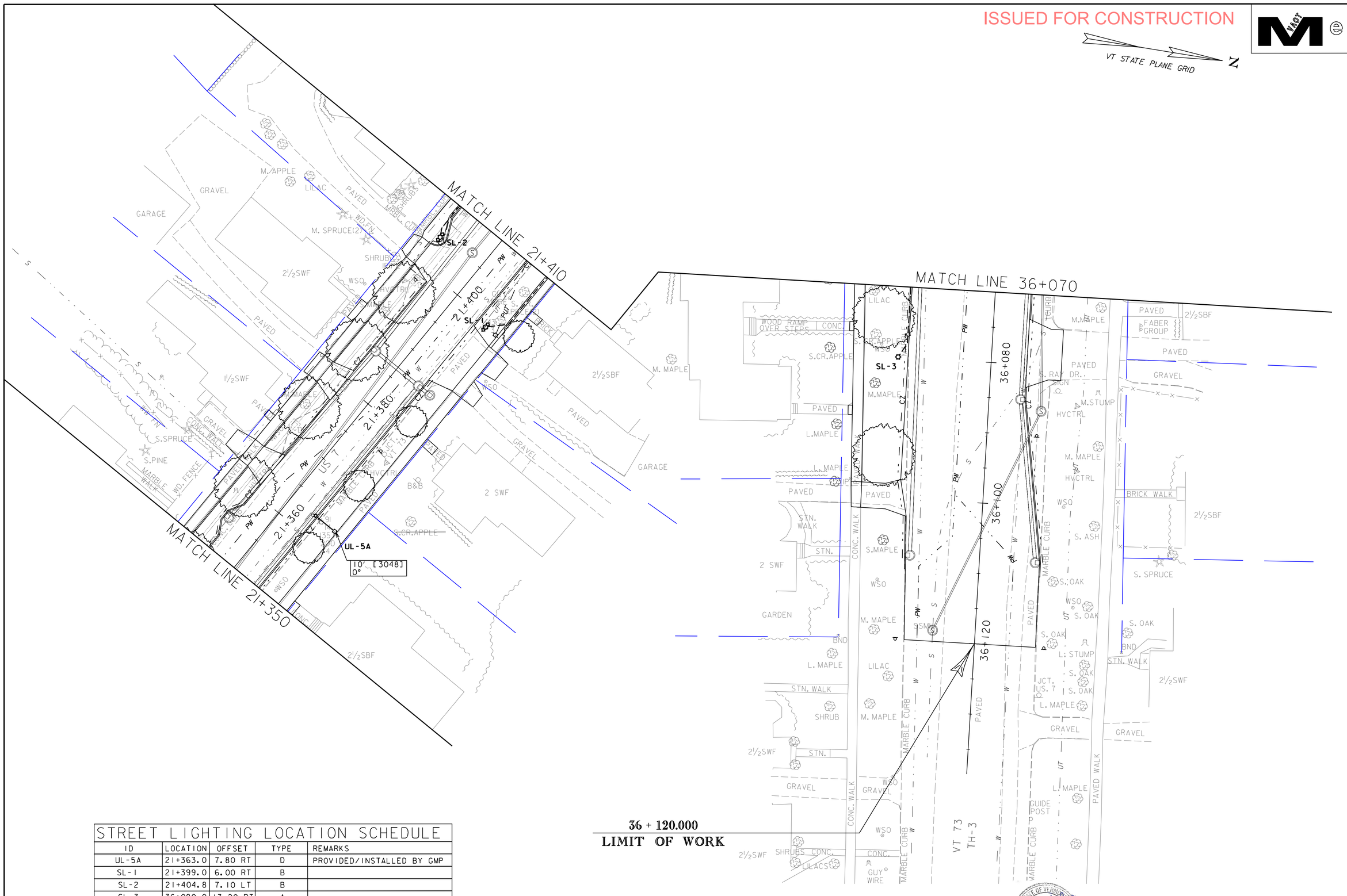
FILE NAME: zb008s6-light.dgn
PROJECT LEADER: R.KISCHKO
DESIGNED BY: M.CROWLEY
PLOT DATE: 2/22/2017
DRAWN BY: M.CROWLEY
CHECKED BY: R.KISCHKO
SHEET 334 OF 601

CLD 02-0448 MODEL: 5

ISSUED FOR CONSTRUCTION

VT STATE PLANE GRID N

VAOT Metric



STREET LIGHTING LOCATION SCHEDULE				
ID	LOCATION	OFFSET	TYPE	REMARKS
UL-5A	21+363.0	7.80 RT	D	PROVIDED/INSTALLED BY GMP
SL-1	21+399.0	6.00 RT	B	
SL-2	21+404.8	7.10 LT	B	
SL-3	36+080.0	13.20 RT	A	

0 10 20 30

SCALE IN METERS

SCALE OF VERMONT ROBERT P. KISCHKO 15977 PROFESSIONAL ENGINEER

LIGHTING PLAN 6

PROJECT NAME: BRANDON

PROJECT NUMBER: NH 019-3(496)

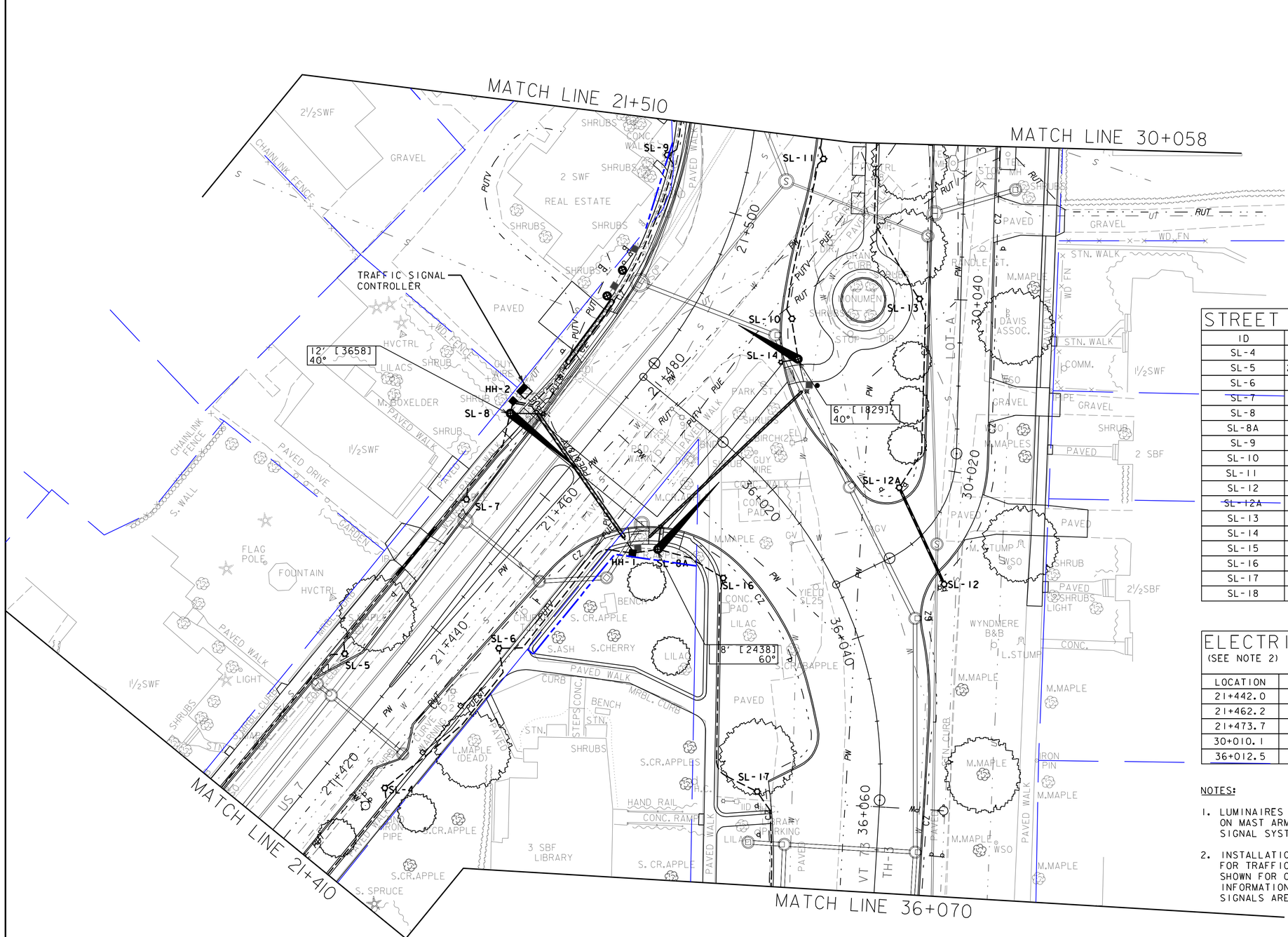
FILE NAME: zb008s6-light.dgn
PROJECT LEADER: R.KISCHKO
DESIGNED BY: M.CROWLEY

PLOT DATE: 2/22/2017
DRAWN BY: M.CROWLEY
CHECKED BY: R.KISCHKO
SHEET 335 OF 601

CLD 02-0448 MODEL: 6

ISSUED FOR CONSTRUCTION

VAOT Metric



JUNCTION BOX LOCATION SCHEDULE

ID	LOCATION	OFFSET
HH-1	21+461.4	12.00 RT
HH-2	21+466.3	9.95 LT

STREET LIGHTING LOCATION SCHEDULE

ID	LOCATION	OFFSET	TYPE	REMARKS
SL-4	21+422.0	7.00 RT	A	
SL-5	21+431.1	6.50 LT	A	
SL-6	21+443.0	7.00 RT	A	
SL-7	21+454.0	6.90 LT	A	
SL-8	21+465.0	9.30 LT	C	MOUNT ON MAST ARM POLE. SEE NOTE 1.
SL-8A	36+014.8	14.41 RT	C	MOUNT ON MAST ARM POLE. SEE NOTE 1.
SL-9	21+505.0	9.50 LT	A	
SL-10	21+492.0	10.70 RT	A	
SL-11	21+508.0	8.50 RT	A	
SL-12	30+010.0	6.00 RT	A	
SL-12A	30+015.0	5.50 LT	A	
SL-13	30+040.0	4.80 LT	A	
SL-14	21+488.9	13.54 RT	C	MOUNT ON MAST ARM POLE. SEE NOTE 1.
SL-15				NOT USED
SL-16	36+025.0	10.90 RT	A	
SL-17	36+059.0	14.30 RT	A	
SL-18				NOT USED

ELECTRICAL CONDUIT SLEEVES

(SEE NOTE 2)

LOCATION	OFFSET	TO	LOCATION	OFFSET	DIAMETER
21+442.0	7.64 LT		21+449.2	7.61 LT	100
21+462.2	10.10 RT		21+467.1	7.22 LT	200
21+473.7	7.87 LT		21+483.2	8.30 LT	250
30+010.1	5.71 RT		30+014.7	5.25 LT	100
36+012.5	14.02 RT		36+014.8	10.49 LT	200

NOTES:

1. LUMINAIRES AND ALL INCIDENTAL EQUIPMENT NECESSARY TO INSTALL LIGHTING ON MAST ARM POLES SHALL BE INCIDENTAL TO ITEM 678.15, TRAFFIC CONTROL SIGNAL SYSTEM. SEE SIGNAL PLANS FOR ADDITIONAL DETAILS.
2. INSTALLATION OF CONDUIT FOR LIGHTING MUST BE COORDINATED WITH CONDUIT FOR TRAFFIC SIGNALS. CONDUIT AND JUNCTION BOXES FOR TRAFFIC SIGNALS SHOWN FOR CLARITY THIS SHEET. SEE TRAFFIC SIGNAL PLANS FOR ADDITIONAL INFORMATION. SLEEVES CONTAINING CONDUIT FOR LIGHTING AND TRAFFIC SIGNALS ARE ITEMIZED ON LIGHTING PLANS ONLY.

STATE OF VERMONT PROFESSIONAL ENGINEER ROBERT F. KISCHKO 6977

0 10 20 30

SCALE IN METERS

LIGHTING PLAN 7

PROJECT NAME: BRANDON
PROJECT NUMBER: NH 019-3(496)

FILE NAME: zb008s6-light.dgn
PROJECT LEADER: R.KISCHKO
DESIGNED BY: M.CROWLEY

PLOT DATE: 2/22/2017
DRAWN BY: M.CROWLEY
CHECKED BY: R.KISCHKO
SHEET 336 OF 601

CLD 02-0448 MODEL: 7

ISSUED FOR CONSTRUCTION

VAOT Metric

JUNCTION BOX LOCATION SCHEDULE

ID	LOCATION	OFFSET
HH-3	21+572.4	13.70 LT
HH-4	21+577.2	15.10 LT
HH-5	21+579.3	10.70 RT
HH-6	21+601.0	11.70 RT
HH-7	21+601.8	11.60 RT
HH-8	NOT USED	
HH-9	30+123.1	9.85 RT
HH-10	30+117.2	7.34 LT

SPECIAL PROVISION (ELECTRICAL DISTRIBUTION PANEL)
21+526.9 RT 12.35 m

SPECIAL PROVISION (LIGHTING PANELBOARD AND CABINET)
21+599.8 LT 13.54 m

SPECIAL PROVISION (WIRED CONCRETE ENCASED DUCT BANK) (5-8 CONDUIT)
21+600.2 LT 8.50 m TO 21+600.2 RT 8.28 m

REMOVE & RESET LIGHT POLE
30+089.5 RT (RELOCATE TO 30+091.7 RT) (SEE NOTE 3)

VT STATE PLANE GRID N

ELECTRICAL CONDUIT SLEEVES
(SEE NOTE 2)

LOCATION	OFFSET	TO	LOCATION	OFFSET	DIAMETER
21+522.1	9.05 LT		21+532.7	9.92 LT	200
30+107.9	13.25 RT		30+119.6	11.89 RT	100
30+118.1	5.27 LT		30+122.5	6.05 RT	100
34+012.7	9.15 LT		34+013.3	7.09 RT	250
34+031.0	5.7 RT		34+064.1	8.2 RT	100
35+012.1	11.44 RT		35+013.5	8.28 LT	250

STREET LIGHTING LOCATION SCHEDULE

ID	LOCATION	OFFSET	TYPE	REMARKS
SL-19	21+523.0	8.50 RT	A	
SL-20	21+533.0	9.80 LT	A	
SL-21	21+545.0	8.50 RT	A	
SL-22	21+552.6	10.80 LT	A	NOTE: SIGNAL EQUIPMENT ON POLE
SL-23	21+572.0	10.50 LT	A	NOTE: SIGNAL EQUIPMENT ON POLE
SL-24	21+575.4	13.92 LT	C	MOUNT ON MAST ARM POLE. SEE NOTE 1.
SL-25	21+586.9	9.10 RT	C	MOUNT ON MAST ARM POLE. SEE NOTE 1.
SL-25A	21+596.4	13.79 LT	A	NOTE: SIGNAL EQUIPMENT ON POLE
SL-26	21+599.0	8.50 RT	A	
SL-27	21+610.0	10.80 LT	A	
SL-28	30+063.5	6.50 RT	B	
SL-29	30+067.0	6.75 LT	A	
SL-30	30+077.0	12.30 RT	A	
SL-31	30+085.0	6.75 LT	A	
SL-32	30+091.7	12.30 RT	-	RESET EXISTING POLE ON NEW BASE. SEE NOTE 3.
SL-33	30+103.0	6.75 LT	A	
SL-34	30+105.0	12.30 RT	A	
SL-35	30+117.5	10.50 LT	A	
SL-36	30+118.0	7.00 RT	B	
SL-37	30+134.4	10.30 RT	A	
SL-38	30+140.0	11.50 LT	A	
SL-39	34+012.0	10.30 LT	C	NOTE: SIGNAL EQUIPMENT ON POLE
SL-40	34+030.0	5.70 RT	A	
SL-41	34+065.4	8.30 RT	A	
SL-42	35+022.5	7.10 LT	A	
SL-43	35+035.0	8.30 RT	A	
SL-44	35+050.0	6.80 LT	A	
UL-5B	35+077.5	6.20 LT	D	PROVIDED/INSTALLED BY GMP

NOTES:

1. LUMINAIRES AND ALL INCIDENTAL EQUIPMENT NECESSARY TO INSTALL LIGHTING ON MAST ARM POLES SHALL BE INCIDENTAL TO ITEM 678.15, TRAFFIC CONTROL SIGNAL SYSTEM. SEE SIGNAL PLANS FOR ADDITIONAL DETAILS.
2. INSTALLATION OF CONDUIT FOR LIGHTING MUST BE COORDINATED WITH CONDUIT FOR TRAFFIC SIGNALS. CONDUIT AND JUNCTION BOXES FOR TRAFFIC SIGNALS SHOWN FOR CLARITY THIS SHEET. SEE TRAFFIC SIGNAL PLANS FOR ADDITIONAL INFORMATION. SLEEVES CONTAINING CONDUIT FOR LIGHTING AND TRAFFIC SIGNALS ARE ITEMIZED ON LIGHTING PLANS ONLY.
3. CONTRACTOR SHALL VERIFY EXISTING WIRING IN POLE/ARM TO LUMINAIRES MEETS ALL APPLICABLE CODES. NEW CONCRETE BASE AND REPLACEMENT AND FUSING OF NEW WIRING IF REQUIRED SHALL BE CONSIDERED INCIDENTAL TO ITEM REMOVE AND RESET LIGHT POLE.
4. FOR US 7 CROSSING AT STA. 21+600.8, SEE CONCRETE ENCASED DUCTBANK SECTION DETAIL. SECTION ARROWS INDICATE DIRECTION OF SECTION VIEW.

STATE OF VERMONT ROBERT F. KISCHKO 6977 PROFESSIONAL ENGINEER

LIGHTING PLAN 8

PROJECT NAME: BRANDON
PROJECT NUMBER: NH 019-3(496)

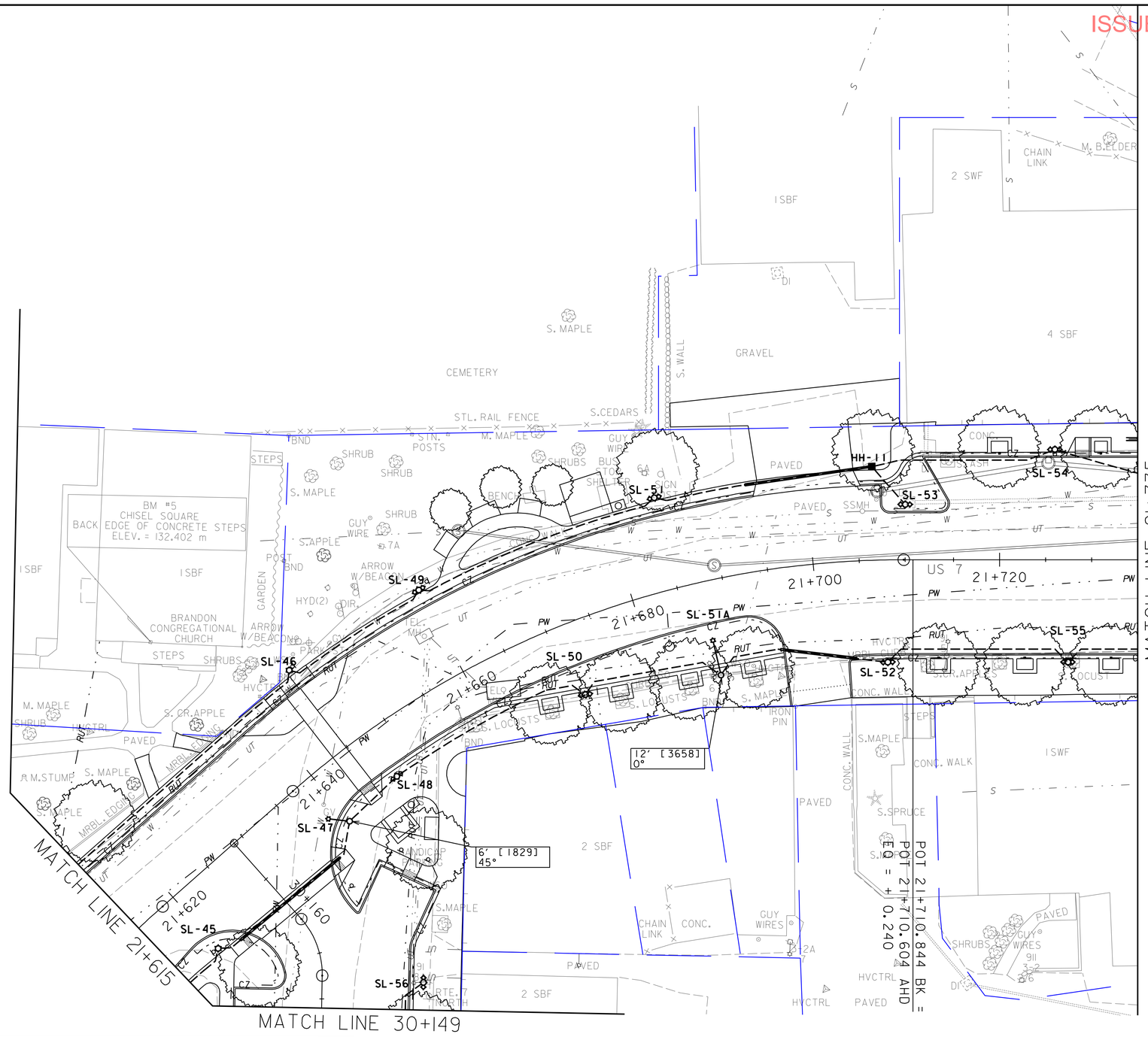
FILE NAME: zb008s6-light.dgn
PROJECT LEADER: R.KISCHKO
DESIGNED BY: M.CROWLEY
PLOT DATE: 2/22/2017
DRAWN BY: M.CROWLEY
CHECKED BY: R.KISCHKO
SHEET 337 OF 601

CLD 02-0448 MODEL: 8

SCALE IN METERS 0 10 20 30

ISSUED FOR CONSTRUCTION

VAOT Metric



STREET LIGHTING LOCATION SCHEDULE

ID	LOCATION	OFFSET	TYPE	REMARKS
SL-45	21+620.0	7.40 RT	A	
SL-46	21+645.0	10.40 LT	A	
SL-47	21+640.0	6.50 RT	C	
SL-48	21+647.5	5.80 RT	B	
SL-49	21+660.0	10.10 LT	B	
SL-50	21+671.4	7.95 RT	B	
SL-51	21+685.0	10.10 LT	B	
SL-51A	21+687.5	10.30 RT	C	
SL-52	21+707.9	11.10 RT	B	
SL-53	21+710.0	6.00 LT	B	
SL-54	21+726.0	11.95 LT	B	
SL-55	21+727.4	11.10 RT	B	
SL-56	30+152.0	11.00 RT	B	

JUNCTION BOX LOCATION SCHEDULE

ID	LOCATION	OFFSET
HH-11	21+706.7	10.15 LT

ELECTRICAL CONDUIT SLEEVES

LOCATION	OFFSET	TO	LOCATION	OFFSET	DIAMETER
21+622.4	8.34 RT		21+636.5	8.79 RT	100
21+694.0	9.48 LT		21+706.4	10.13 LT	100
21+695.1	8.75 RT		21+704.2	10.58 RT	100

LIGHTING PLAN 9

PROJECT NAME: BRANDON
PROJECT NUMBER: NH 019-3(496)

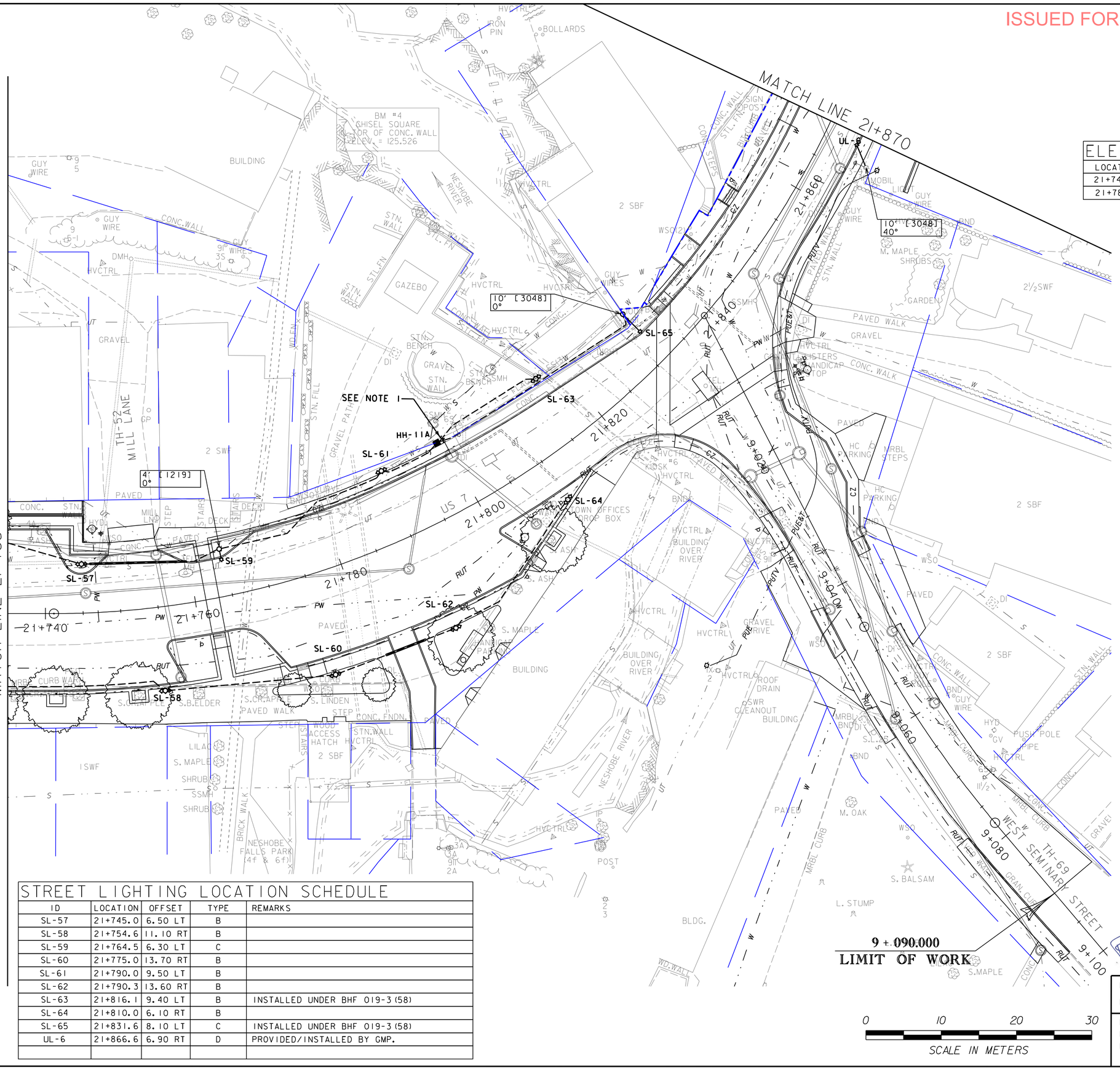
FILE NAME: zb008s6-light.dgn
PROJECT LEADER: R.KISCHKO
DESIGNED BY: M.CROWLEY

PLOT DATE: 2/22/2017
DRAWN BY: M.CROWLEY
CHECKED BY: R.KISCHKO
SHEET 338 OF 601

CLD 02-0448 MODEL: 9

ISSUED FOR CONSTRUCTION

VAOT Metric



VT STATE PLANE GRID N

ELECTRICAL CONDUIT SLEEVES

LOCATION	OFFSET	TO	LOCATION	OFFSET	DIAMETER
21+746.1	6.49 LT		21+759.7	5.48 LT	100
21+781.4	13.37 RT		21+786.5	13.40 RT	100

JUNCTION BOX LOCATION SCHEDULE

ID	LOCATION	OFFSET
HH-11A	21+799.0	9.4 LT

NOTES:

1. LOCATE AND CONNECT TO TWO CAPPED CONDUIT INSTALLED UNDER PROJECT BHF 019-3(58). NEW WIRING TO BE INSTALLED IN EXISTING CONDUIT TO LIGHT POLES SL-63 AND SL-65 AND NEW CONNECTIONS AT LIGHT POLE BASES SHALL BE PAID FOR UNDER ITEM 678.24 ELECTRICAL WIRING.

STREET LIGHTING LOCATION SCHEDULE

ID	LOCATION	OFFSET	TYPE	REMARKS
SL-57	21+745.0	6.50 LT	B	
SL-58	21+754.6	11.10 RT	B	
SL-59	21+764.5	6.30 LT	C	
SL-60	21+775.0	13.70 RT	B	
SL-61	21+790.0	9.50 LT	B	
SL-62	21+790.3	13.60 RT	B	
SL-63	21+816.1	9.40 LT	B	INSTALLED UNDER BHF 019-3(58)
SL-64	21+810.0	6.10 RT	B	
SL-65	21+831.6	8.10 LT	C	INSTALLED UNDER BHF 019-3(58)
UL-6	21+866.6	6.90 RT	D	PROVIDED/INSTALLED BY GMP.

0 10 20 30

SCALE IN METERS

STATE OF VERMONT ROBERT R. KISCHKO 5977 PROFESSIONAL ENGINEER

LIGHTING PLAN 10

PROJECT NAME: BRANDON
PROJECT NUMBER: NH 019-3(496)

FILE NAME: zb008s6-light.dgn
PROJECT LEADER: R.KISCHKO
DESIGNED BY: M.CROWLEY
PLOT DATE: 2/22/2017
DRAWN BY: M.CROWLEY
CHECKED BY: R.KISCHKO
SHEET 339 OF 601

CLD 02-0448 MODEL: 10

ISSUED FOR CONSTRUCTION

VAOT Metric

VT STATE PLANE GRID

N

MATCH LINE 21+870

MATCH LINE 21+995

BRIGGS LANE TH #54

PROSPECT ST TH #47

US 7

VT 73

21+880 21+900 21+920 21+940 21+960 21+980

8+020 8+040 8+060

UL-6A

UL-7

12' [3658] 20°

4' [1219] 35°

8 + 060.000
LIMIT OF WORK

GAS PUMPS
GAS FILLERS & UST
GAS STATION
CHURCH
ST. THOMAS EPISCOPAL CHURCH
BRICK HOUSE
BARN
GARDEN
GRAVEL
PAVED
PAVED WALK
GRAVEL DRIVE
CONC. WALK/HAND RAIL
BLOCK WALL
STN. WALL
CONC. WALL
WD. PORCH
PORCH STEP
STN. STEPS
GALLERY
WOODS
S.BELDER
M.B.ELDER
M.ELM
S. MAPLE
M. MAPLE
M. MAPLES
M. ASH
S. APPLE
S. CEDAR
M. SPRUCE
LILAC
SHRUBS
SHRUB
GUY WIRE
HVCTRL
SSMH
WSO
MW
PS
UT
CZ
RUT
PW
W
S
BND
NO PARKING
RESVD. PARKING
FLAG POLE
IRON PIN
LIGHT
SIGN
OVERHEAD
WATER
GAR.
SWR CLEANOUT
ROOF DRAIN
1½SWF
2½SWF
3½SWF
2½SBF
1½SBF

STREET LIGHTING LOCATION SCHEDULE				
ID	LOCATION	OFFSET	TYPE	REMARKS
UL-6A	21+915.9	7.60 RT	D	PROVIDED/INSTALLED BY GMP
UL-7	21+959.0	8.50 RT	D	PROVIDED/INSTALLED BY GMP

STATE OF VERMONT
ROBERT F. KISCHKO
5977
PROFESSIONAL ENGINEER

0 10 20 30
SCALE IN METERS

LIGHTING PLAN II

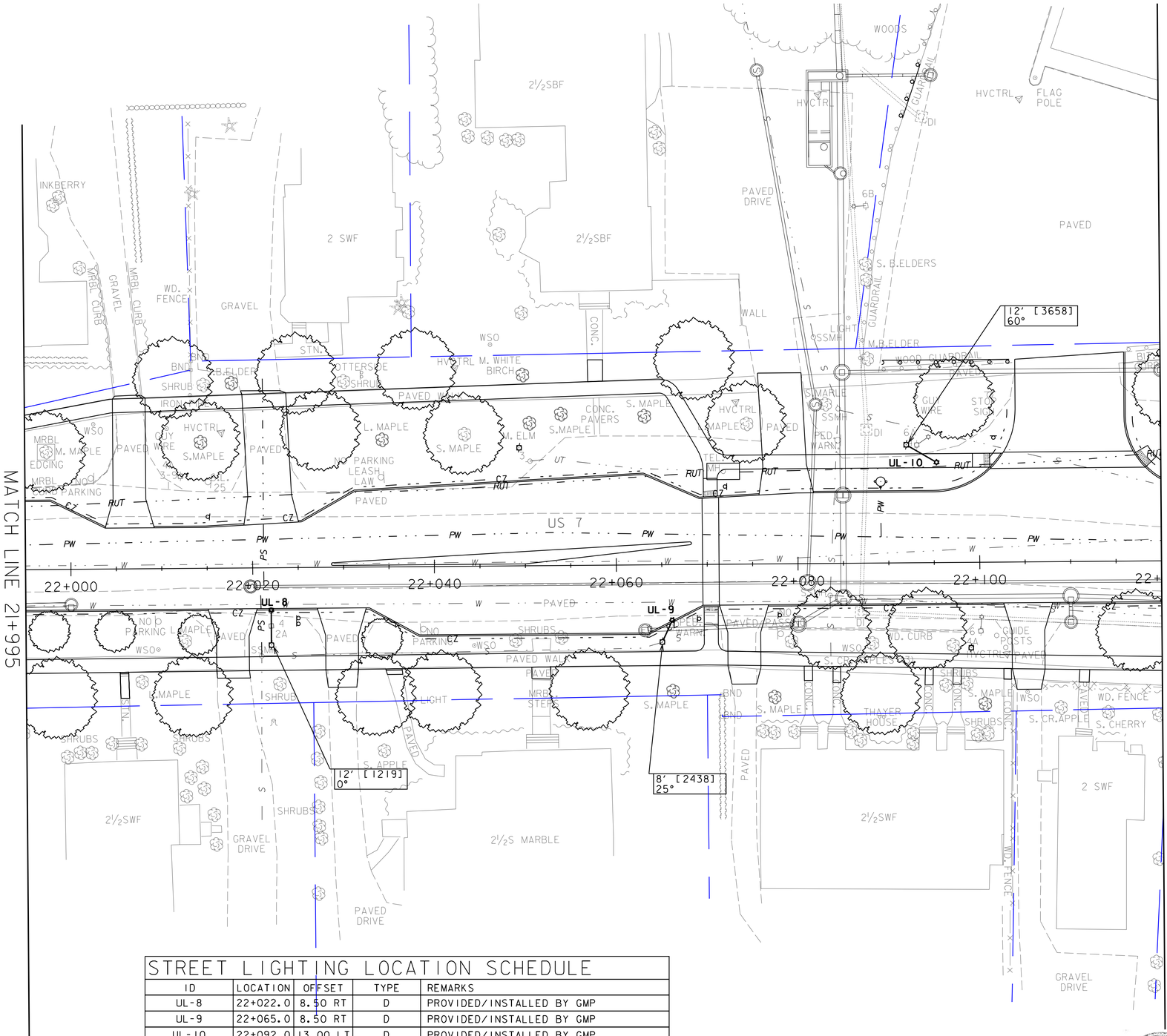
PROJECT NAME: BRANDON
PROJECT NUMBER: NH 019-3(496)

FILE NAME: zb008s6-light.dgn
PROJECT LEADER: R.KISCHKO
DESIGNED BY: M.CROWLEY
PLOT DATE: 2/22/2017
DRAWN BY: M.CROWLEY
CHECKED BY: R.KISCHKO
SHEET 340 OF 601

CLD 02-0448 MODEL: II

ISSUED FOR CONSTRUCTION

VAOT Metric



VT STATE PLANE GRID

N

REMOVE AND RESET LIGHT POLE
22+085.7 LT (SEE NOTE 1)

NOTES:

1. CONTRACTOR SHALL VERIFY EXISTING WIRING IN POLE/ARM TO LUMINAIRE MEETS ALL APPLICABLE CODES. NEW CONCRETE BASE AND REPLACEMENT AND FUSING OF NEW WIRING IF REQUIRED SHALL BE CONSIDERED INCIDENTAL TO ITEM REMOVE AND RESET LIGHT POLE.

STREET LIGHTING LOCATION SCHEDULE

ID	LOCATION	OFFSET	TYPE	REMARKS
UL-8	22+022.0	8.50 RT	D	PROVIDED/INSTALLED BY GMP
UL-9	22+065.0	8.50 RT	D	PROVIDED/INSTALLED BY GMP
UL-10	22+092.0	13.00 LT	D	PROVIDED/INSTALLED BY GMP

STATE OF VERMONT
ROBERT F. KISCHKO
5977
PROFESSIONAL ENGINEER

0 10 20 30
SCALE IN METERS

LIGHTING PLAN 12

PROJECT NAME: BRANDON
PROJECT NUMBER: NH 019-3(496)

FILE NAME: zb008s6-light.dgn
PROJECT LEADER: R.KISCHKO
DESIGNED BY: M.CROWLEY
PLOT DATE: 2/22/2017
DRAWN BY: M.CROWLEY
CHECKED BY: R.KISCHKO
SHEET 341 OF 601

CLD 02-0448 MODEL:12

ISSUED FOR CONSTRUCTION

VAOT Metric

LIGHTING PANELBOARD 'LB' WITH METER. POWER SOURCE FROM UTILITY POLE AT 22+130.0 LT (BACK OF CABINET FACING US 7)

VT STATE PLANE GRID N

SPECIAL PROVISION (LIGHTING PANELBOARD AND CABINET)
22+129.1 LT 15.30 m

REMOVE STREET LIGHT ASSEMBLY (RETURN POLE AND LUMINAIRE TO TOWN)
22+167.4 LT
19+028.9 RT
19+040.0 RT

STREET LIGHTING LOCATION SCHEDULE

ID	LOCATION	OFFSET	TYPE	REMARKS
SL-66				NOT USED
SL-67	22+121.5	10.60 LT	A	
SL-68	22+130.0	6.00 RT	A	
SL-69	22+150.0	6.50 RT	C	
SL-70	22+155.0	9.35 LT	A	
SL-71	19+032.1	15.90 RT	B	
SL-72	19+038.5	24.40 RT	B	
SL-73	22+172.5	9.90 LT	A	
SL-74	22+175.0	22.90 LT	A	
SL-75				NOT USED
SL-76	22+209.0	6.50 RT	A	
SL-77	22+210.5	12.50 LT	C	
SL-78	18+017.5	6.00 LT	A	
SL-79				NOT USED
SL-80	18+037.0	6.20 LT	A	
SL-81				NOT USED
SL-82	19+042.0	14.90 RT	B	
UL-11	22+130.0	13.10 LT	D	PROVIDED/INSTALLED BY GMP

JUNCTION BOX LOCATION SCHEDULE

ID	LOCATION	OFFSET
HH-12	19+020.3	13.95 RT
HH-13	19+030.6	18.25 RT
HH-14	18+012.7	8.00 LT

ELECTRICAL CONDUIT SLEEVES

LOCATION	OFFSET	TO	LOCATION	OFFSET	DIAMETER
22+129.2	10.73 LT		22+130.0	5.70 RT	100
22+134.3	7.38 RT		22+141.8	7.80 RT	100
22+157.5	5.88 RT		22+172.4	5.88 RT	100
22+182.3	5.88 RT		22+195.2	5.88 RT	100
22+209.1	5.70 RT		22+210.4	11.21 LT	100
18+020.4	5.70 LT		18+031.2	5.53 LT	100
19+013.7	6.89 LT		19+018.1	8.01 RT	200

STATE OF VERMONT ROBERT P. KISCHKO 5977 PROFESSIONAL ENGINEER

0 10 20 30
SCALE IN METERS

LIGHTING PLAN 13

PROJECT NAME: BRANDON
PROJECT NUMBER: NH 019-3(496)

FILE NAME: zb008s6-light.dgn
PROJECT LEADER: R.KISCHKO
DESIGNED BY: M.CROWLEY
PLOT DATE: 2/22/2017
DRAWN BY: M.CROWLEY
CHECKED BY: R.KISCHKO
SHEET 342 OF 601

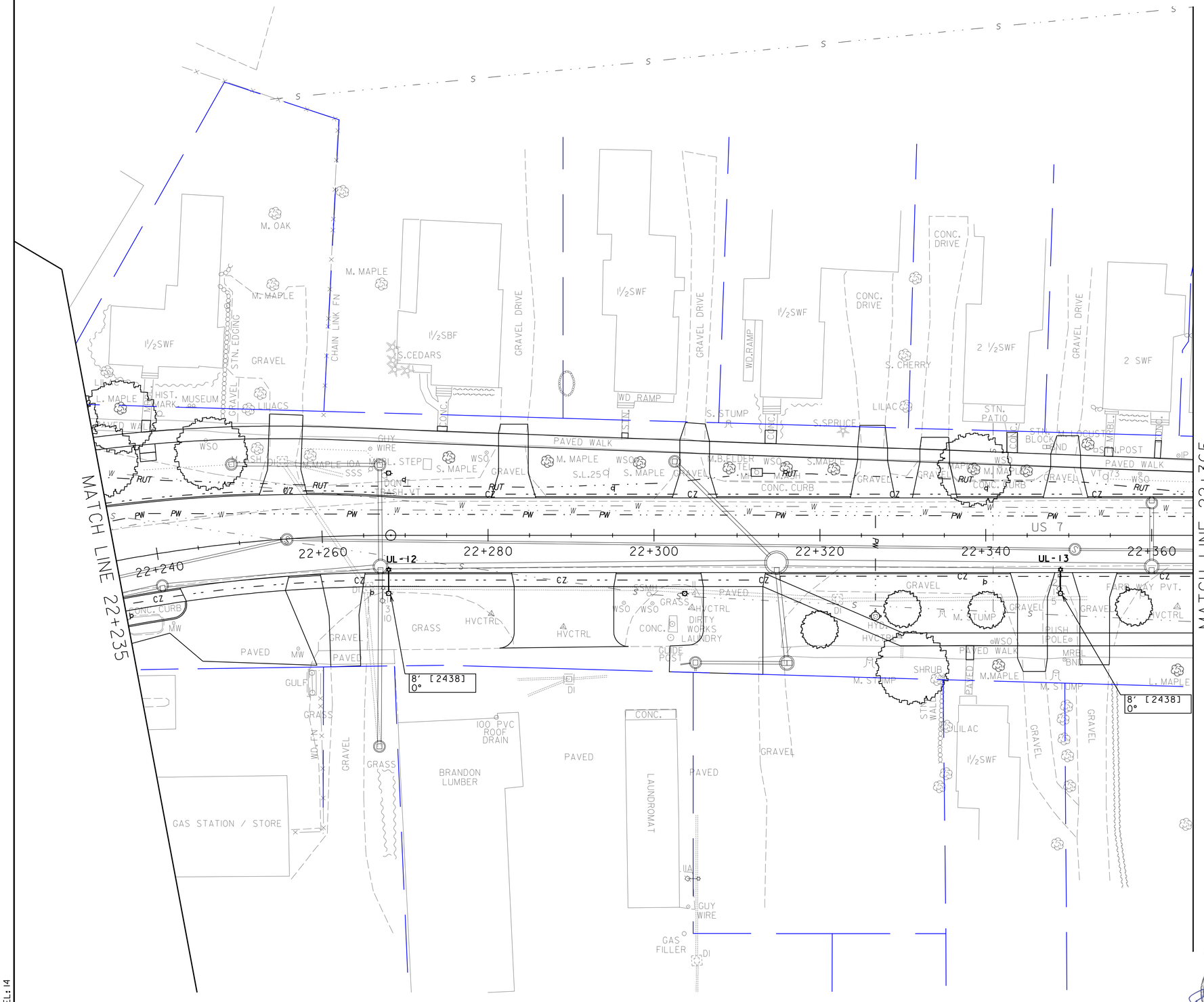
CLD 02-0448 MODEL:13

ISSUED FOR CONSTRUCTION

VAOT Metric

VT STATE PLANE GRID N

STREET LIGHTING LOCATION SCHEDULE				
ID	LOCATION	OFFSET	TYPE	REMARKS
UL-12	22+268.0	7.00 RT	D	PROVIDED/INSTALLED BY GMP
UL-13	22+349.0	7.00 RT	D	PROVIDED/INSTALLED BY GMP


MATCH LINE 22+235
MATCH LINE 22+365
US 7
22+240
22+260
22+280
22+300
22+320
22+340
22+360
UL-12
UL-13
M. OAK
M. MAPLE
M. MAPLE
1½SWF
GRAVEL
STN. EDGING
CHAIN LINK FN
1½SBF
S.CEDARS
GRAVEL DRIVE
1½SWF
GRAVEL DRIVE
WD.RAMP
1½SWF
CONC. DRIVE
S. CHERRY
2 ½SWF
GRAVEL DRIVE
2 SWF
L. MAPLE
HIST. MUSEUM MARK
LILACS
PAVED WALK
WSO
GUY WIRE
SHRUBS
MAPLE
SSS
MBL. STEP
S. MAPLE
GRAVEL
M. MAPLE
S.L.25
S. MAPLE
GRAVEL
M.B.ELDER
TEL
WSO
S.MAPLE
GRAVEL
CONC. CURB
S. STUMP
S.SPRUCE
LILAC
STN. PATIO
CONC. BLOCK
STN. W/ LOCUST
SIGN POST
MRBL. BND
PAVED WALK
VT 73
CONC. CURB
GRAVEL
CONC. CURB
GRAVEL
CONC. CURB
GRAVEL

ISSUED FOR CONSTRUCTION

VAOT Metric

VT STATE PLANE GRID N

MATCH LINE 22+365

MATCH LINE 22+520

BM #2 CHS. SQ.
TOP SW COR. CONC. STEPS
EL.= 125.872 m

22+380 22+400 22+420 22+440 22+460 22+480 22+500

UL-14

US 7

2 SWF
2½SWF
1½SWF
S. SPRUCE
S. MAPLE
GRAVEL
PAVED
CONC.
IRON PIN
HVCTRL #4
SHRUB
M.STUMP
MRBL
S.B.ELDERS
S. B.ELDER
HYD.
STN. WALL
GUY WIRE
W.O. FN.
GUY POLE
PED
WARNING
LIGHT
WSO
DO NOT ENTER
THANK YOU
F. POLE
HVCTRL
CONC. CURB
PAVED WALK
PAVED SHLDR
RUT
CZ
W
PW
MCDONALDS
LIGHT
PAVED
GUIDE POST
M. MAPLE
PUSH POST
SSMH
MRBL CURB
B&B
SIGN
GUY WIRE
S. INKBERRY
MRBL. WALL
STEPS
L. MAPLE
S. CEDAR
L. MAPLES
S. CEDARS
S.CR.APPLE
M.MAPLE
S. B.ELDER
M.MAPLES
S. HEMLOCK
GARDEN
6' [1829] 0°
LIGHTS
S. ELM
WOODS
B. WIRE FENCE

STREET LIGHTING LOCATION SCHEDULE

ID	LOCATION	OFFSET	TYPE	REMARKS
UL-14	22+427.0	6.30 RT	D	PROVIDED/INSTALLED BY GMP

ROBERT P. KISCHKO 15977 STATE OF VERMONT PROFESSIONAL ENGINEER

0 10 20 30
SCALE IN METERS

LIGHTING PLAN 15

PROJECT NAME: BRANDON
PROJECT NUMBER: NH 019-3(496)

FILE NAME: zb008s6-light.dgn
PROJECT LEADER: R.KISCHKO
DESIGNED BY: M.CROWLEY
PLOT DATE: 2/22/2017
DRAWN BY: M.CROWLEY
CHECKED BY: R.KISCHKO
SHEET 344 OF 601

CLD 02-0448 MODEL: 15

ISSUED FOR CONSTRUCTION

VAOT Metric

VT STATE PLANE GRID N

22 + 630.000
END PROJECT
NH 019-3(496)
BEGIN APPROACH

22 + 680.000
END APPROACH

MATCH LINE 22+520

GAS PUMPS
CONC.
PAVED
CONC. CURB
MON. WELLS AND GAS FILLERS
BND
SHELL MCDONALDS
VENT
LIGHT
CONC. CURB
S.L. 35
HVCTR
DRIVE
LIGHT
PAVED
SHRUB
GRAVEL
CONC
BRANDON AUTO SALES
WSO
W. WIRE FENCE
BND
CHAIN LINK FENCE
IRON PIN
HVCTRL
GV
PAVED
US 7

22+520 22+540 22+560 22+580 22+600 22+620 22+640 22+660 22+680 22+700

CONC. CURB
PAVED WALK
PAVED
WD. FENCE
SE 40
THROUGH WAY BEGINS HERE
GUY WIRE
HVCTRL #3
DITCH
CHAIN LINK FENCE
ABANDONED QUARRY
S. LOCUST
SHRUB
BND
GRAVEL
2½SWF
M.MAPLES
S.MAPLE
M.MAPLE
S.MAPLE
LEDGE
WOODS
S.MAPLES
M. MAPLE
S.BASSWD
LEDGE
M. MAPLE
LEDGE

BM #1 CHS. SQ.
IN LEDGE
EL.= 120.49 m

NOTES:
1. NO PROPOSED LIGHTING THIS SHEET.

STATE OF VERMONT
ROBERT P. KISCHKO
05977
PROFESSIONAL ENGINEER

0 10 20 30
SCALE IN METERS

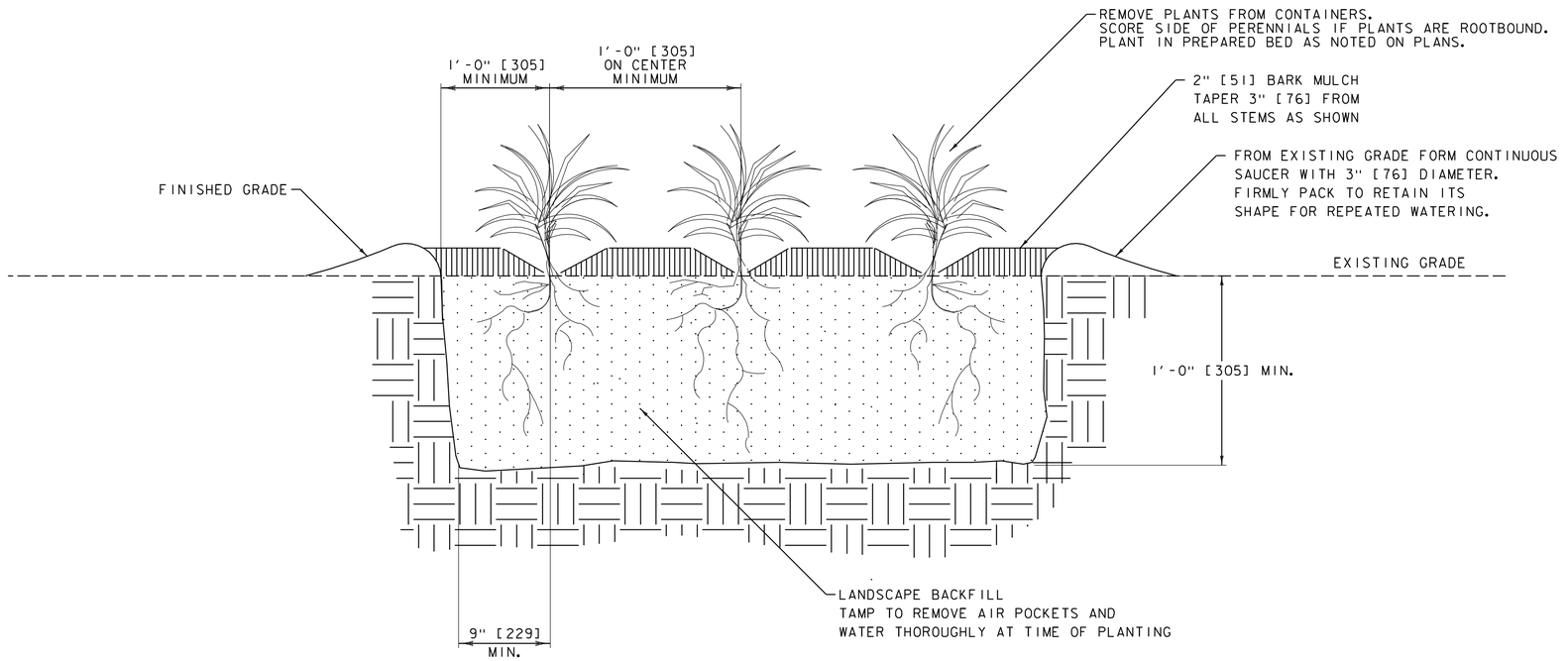
LIGHTING PLAN 16

PROJECT NAME: BRANDON
PROJECT NUMBER: NH 019-3(496)

FILE NAME: zb008s6-light.dgn
PROJECT LEADER: R.KISCHKO
DESIGNED BY: M.CROWLEY
PLOT DATE: 2/22/2017
DRAWN BY: M.CROWLEY
CHECKED BY: R.KISCHKO
SHEET 345 OF 601

CLD 02-0448 MODEL: 16

ISSUED FOR CONSTRUCTION



NOTES:

1. PLANTINGS SHALL BE PLANTED WITHIN 24 HOURS OF EXCAVATION OF PLANTING PIT.
2. PLANT IN ALTERNATING ROWS. PLANT IN A CONTINUOUS PIT AS SHOWN.
3. FOR SLOPE PLANTINGS BUILD UP THE 3" [76] HIGH ROUND - TOPPED SOIL MOUND ON THE LOWER SLOPE AND SHALL BLEND BACK INTO UPPER BANK. IF STEEPER THAN 1:2 PLACE SIMILAR CONTINUOUS MOUND BETWEEN EACH ROW OF PERENNIALS TO RETAIN THE WATER IN EACH ROW. IF NECESSARY REBUILD THE MOUNDS DURING ESTABLISHMENT PERIOD.
4. WATER IN ACCORDANCE WITH SECTION 656 OF THE CURRENT VTRANS SPECIFICATIONS FOR CONSTRUCTION AND ITS LATEST REVISIONS.
5. ALL CONTAINERS, NURSERY TAGS, STRING, WIRE OR SURVEYORS TAPE SHALL BE REMOVED AT THE TIME OF PLANTING.
6. ALL PLANT MATERIAL SHALL COMPLY WITH AMERICAN STANDARD FOR NURSERY STOCK ANSI Z60.

PERENNIAL, GROUND COVER AND VINES PLANTING DETAIL

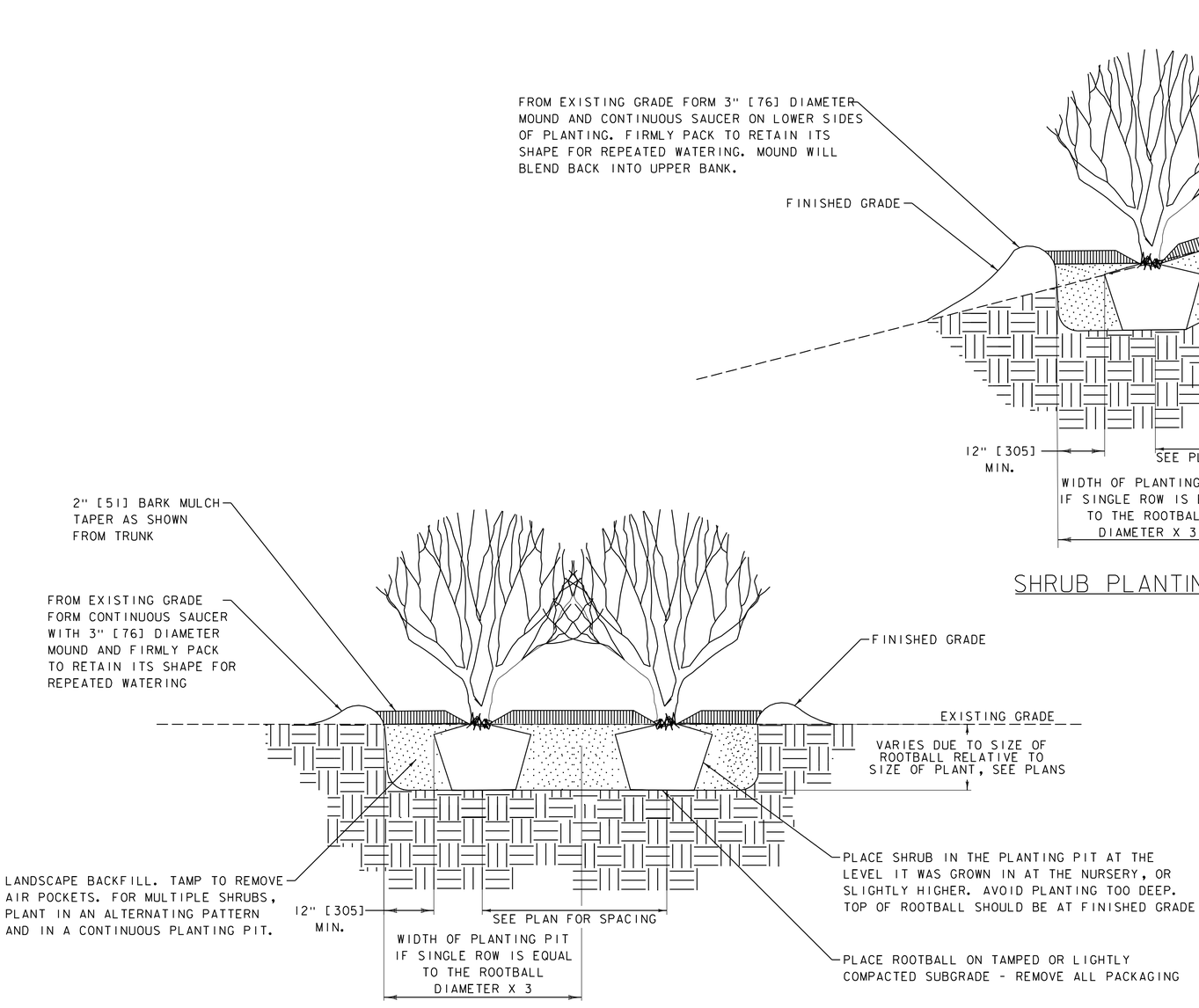
LANDSCAPE DETAILS/NOTES

PROJECT NAME: BRANDON
PROJECT NUMBER: NH 019-3(496)

FILE NAME: zb008s6-ldscdet.dgn
PROJECT LEADER: C. BEAN
DESIGNED BY: M. HALEY

PLOT DATE: 2/23/2017
DRAWN BY: M. HALEY
CHECKED BY: D. MUNRO
SHEET 346 OF 601

CLD 02-0448 MODEL:1



SHRUB PLANTING ON SLOPE DETAIL

SHRUB PLANTING DETAIL

NOTES:

1. PLANTINGS SHALL BE INSTALLED WITHIN 24 HOURS OF EXCAVATION OF PLANTING PIT.
2. REFER TO STRUCTURAL / SPECIAL SOIL PLANS FOR WIDTHS AND DEPTHS OF EXPANDED PLANTING PITS WHERE LANDSCAPE BACKFILL SHALL BE PLACED BEFORE PLANTING.
3. WATER IN ACCORDANCE WITH SECTION 656 OF THE CURRENT VTRANS SPECIFICATIONS FOR CONSTRUCTION AND ITS LATEST REVISIONS.
4. ALL NURSERY TAGS, ROPE, STRING, WIRE OR SURVEYORS TAPE SHALL BE REMOVED AT TIME OF PLANTING.
5. ALL PLANT MATERIAL WILL COMPLY WITH THE AMERICAN STANDARD FOR NURSERY STOCK ANSI Z60.
6. LAYOUT AND PLANT IN ALTERNATING ROWS AT SPACING SHOWN ON PLANS.
7. SHRUB PLANTING DETAIL MAY ALSO BE USED FOR DECIDUOUS AND EVERGREEN SEEDLINGS.

SHRUB DETAILS

LANDSCAPE DETAILS/NOTES

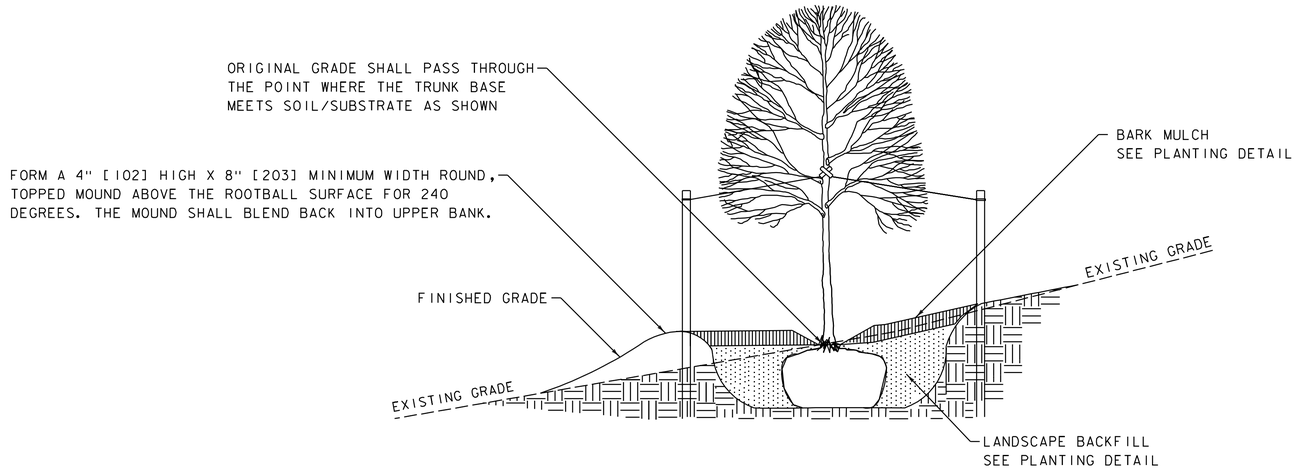
PROJECT NAME:	BRANDON
PROJECT NUMBER:	NH 019-3(496)

FILE NAME: zb008s6-ldscdet.dgn		PLOT DATE:	2/23/2017
PROJECT LEADER:	C. BEAN	DRAWN BY:	M. HALEY
DESIGNED BY:	M. HALEY	CHECKED BY:	D. MUNRO
		SHEET	347 OF 601

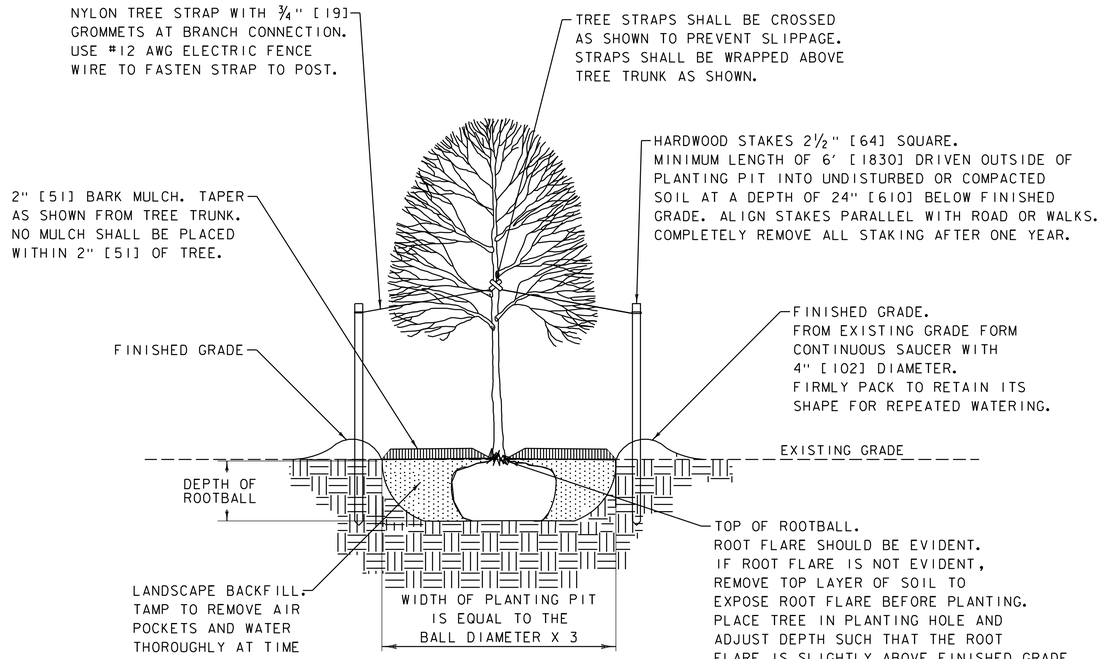
CLD 02-0448 MODEL: 2

ISSUED FOR CONSTRUCTION

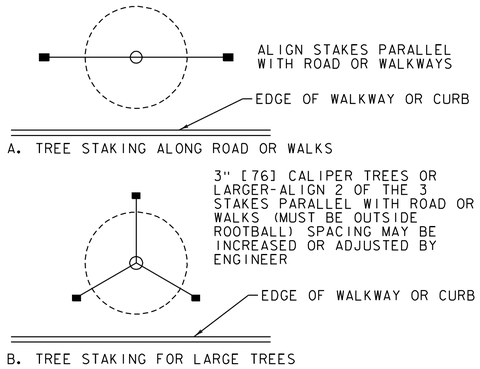
Metric



TREE PLANTING ON SLOPE DETAIL



TREE PLANTING DETAIL



TREE STAKING LAYOUT

NOTES:

1. TRANSPLANT TREES BY HAND DIGGING OR WITH TREE SPADE OF RECOMMENDED SIZE FOR THE EXISTING TREES. FOLLOW AMERICAN STANDARD FOR NURSERY STOCK ANSI Z60 TO MATCH MINIMUM WIDTH AND DEPTH OF THE TRANSPLANTED ROOTBALL TO THE CALIPER WIDTH OF THE EXISTING TRUNK. IF PLANT MATERIAL IS DAMAGED AND NOT IN VIABLE CONDITION IT SHALL BE REPLACED BY THE CONTRACTOR AS DIRECTED BY THE ENGINEER.
2. PLANTINGS SHALL BE INSTALLED WITHIN 24 HOURS OF EXCAVATION OF PLANTING PIT.
3. THESE DETAILS REPRESENT THE MINIMUM REQUIREMENTS FOR NEW TREE PITS. THE ENGINEER MAY DIRECT LARGER TREE PITS IF THE EXISTING SOIL IS COMPACTED OR OF POOR QUALITY. REFER TO STRUCTURAL / SPECIAL SOIL PLANS FOR WIDTHS AND DEPTHS OF EXPANDED TREE PLANTING PITS WHERE LANDSCAPE BACKFILL SHALL BE PLACED BEFORE PLANTING.
4. WATER IN ACCORDANCE WITH SECTION 656 OF THE CURRENT VTRANS SPECIFICATIONS FOR CONSTRUCTION AND ITS LATEST REVISIONS.
5. ALL NURSERY TAGS, ROPE, STRING, WIRE OR SURVEYORS TAPE SHALL BE REMOVED AT TIME OF PLANTING.
6. ALL PLANT MATERIAL SHALL COMPLY WITH THE AMERICAN STANDARD FOR NURSERY STOCK ANSI Z60.
7. STAKE ALL TREES. THE ENGINEER MAY APPROVE NON-STAKING FOR SAPLINGS, BARE ROOT TREES, AND TREES IN PROTECTED AREAS.
8. TREES SHOWN IN THE DETAILS ARE FOR ILLUSTRATIVE PURPOSES ONLY. DETAILS APPLY TO ALL TREE PLANTINGS, EVERGREEN AND DECIDUOUS.

TREE DETAILS

CLD 02-0448 MODEL: 3

LANDSCAPE DETAILS/NOTES

PROJECT NAME: BRANDON
PROJECT NUMBER: NH 019-3(496)

FILE NAME: zb008s6-ldscdet.dgn
PROJECT LEADER: C. BEAN
DESIGNED BY: M. HALEY
PLOT DATE: 2/23/2017
DRAWN BY: M. HALEY
CHECKED BY: D. MUNRO
SHEET 348 OF 601

ISSUED FOR CONSTRUCTION

VAOT Metric

LANDSCAPE LEGEND AND SUMMARY						
KEY	QTY.	COMMON NAME	BOTANICAL NAME	SIZE	SPACING	TYPE
		DECIDUOUS TREES				
AFR	1	ARMSTRONG MAPLE	ACER X FREEMANII 'ARMSTRONG'	51-64 CAL	AS SHOWN	B & B

VT STATE PLANE GRID N

20 + 735.617
BEGIN APPROACH

20 + 778.000
END APPROACH
BEGIN PROJECT
NH 019-3(496)

IRON PIN
GUY WIRE
32-I
32-I
FIRE STATION
FLAG POLE
GRAVEL
PAVED
STN.
HANDICAP SIGN
GUY WIRE
DI
HVCTRL
HYD.
GV(4)
GUY POLE
S.L.40
STATE HWY BEGINS
SSMH
20+660
20+680
US 7
20+700
20+720
20+740
20+760
20+780
20+800
GRASS ISLAND
AMERICAN LEGION
GRANITE CURB
SHRUBS
CONC. PAD
HANDICAP SIGN
GV
HYD.
DELIN.
GR. CURB
DELIN.(2)
STATE HWY ENDS
AFR
WSO
AERIAL E&T
GUY WIRES(3)
M. MAPLE
M. ELM
M. BASSWOOD
M. POPLAR
M. BASSWOOD
S/M. WALNUTS
S. SPRUCES
MARBLE BND
BARB WIRE FENCE
WOODS/ LEDGE
M. MAPLES
BUILDING
FLAG POLE
PAVED
PAVED DRIVE
LILAC
M. PINE
2 SWF
WOODS
S.CEDARS(6)
IRON PIPE
POT 20+777.617 BK
POT 20+778.000 AHD =
EQ. = -0.383 m
MATCH LINE 20+815

LEGEND

- DENOTES TREE OR STUMP REMOVAL (DASHED SIGNIFIES WOODS TREES PAID AS CLEARING/GRUBBING)
- DENOTES TREES TO BE PROTECTED DURING CONSTRUCTION (SEE TREE PROTECTION DETAILS)
- **008** EXISTING TREE INVENTORY NUMBER
- **??** NEW TREES, ?? = SPECIES

SEE STRUCTURAL/SPECIAL SOIL PLANS FOR LIMITS OF PROPOSED STRUCTURAL SOIL AND LANDSCAPE BACKFILL

0 10 20 30
SCALE IN METERS

LANDSCAPE PLAN I

PROJECT NAME: BRANDON
PROJECT NUMBER: NH 019-3(496)

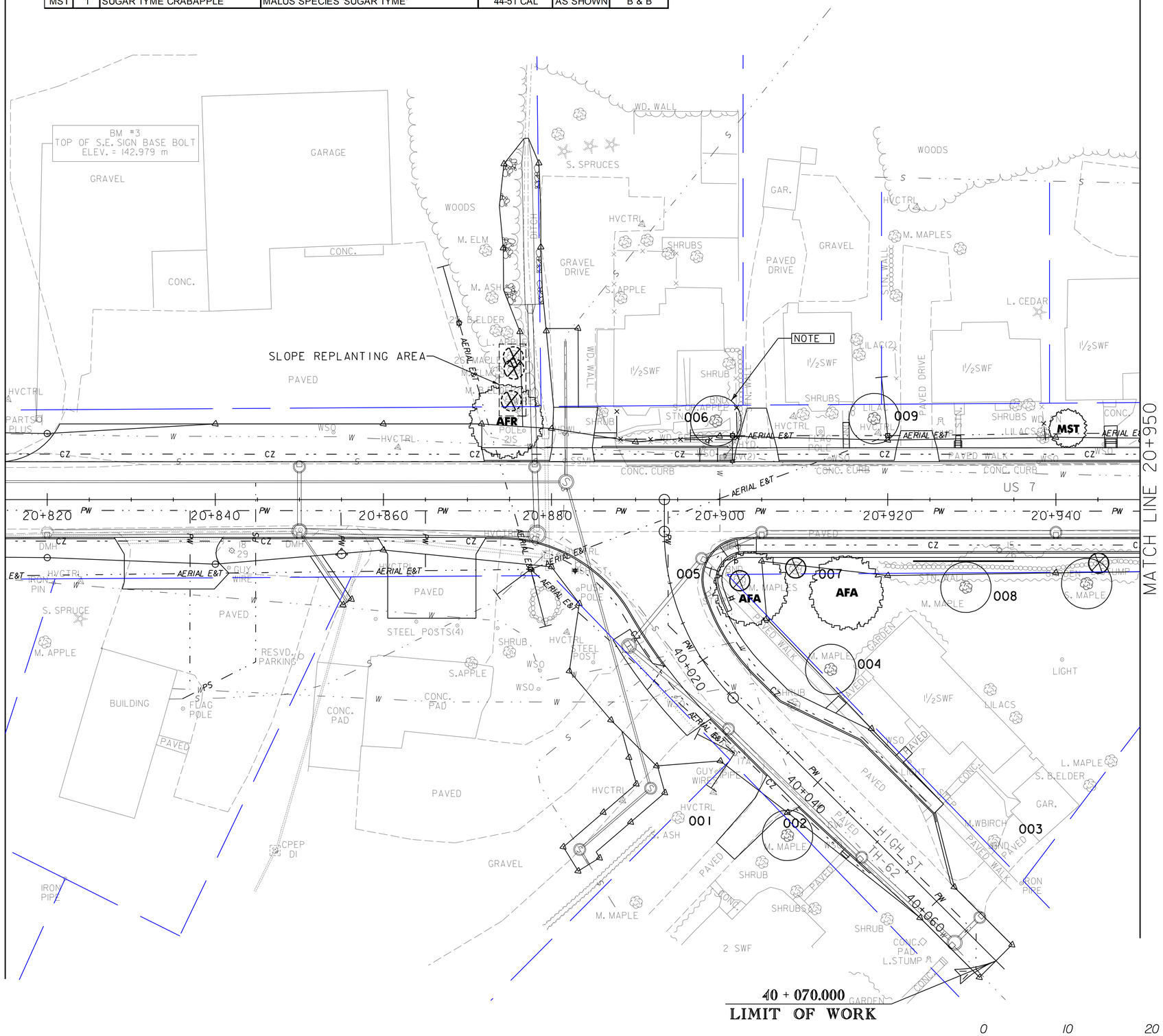
FILE NAME: zb008s6-ldsc.dgn
PROJECT LEADER: C. BEAN
DESIGNED BY: M. HALEY
PLOT DATE: 2/23/2017
DRAWN BY: M. HALEY
CHECKED BY: D. MUNRO
SHEET 349 OF 601

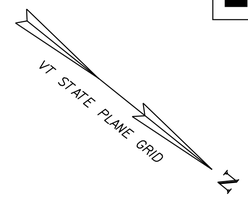
CLD 02-0448 MODEL:1

ISSUED FOR CONSTRUCTION

VAOT Metric

LANDSCAPE LEGEND AND SUMMARY						
KEY	QTY.	COMMON NAME	BOTANICAL NAME	SIZE	SPACING	TYPE
		DECIDUOUS TREES				
AFR	1	ARMSTRONG MAPLE	ACER X FREEMANII 'ARMSTRONG'	51-64 CAL	AS SHOWN	B & B
AFA	2	AUTUMN BLAZE MAPLE	ACER X FREEMANII 'AUTUMN BLAZE'	51-64 CAL	AS SHOWN	B & B
MST	1	SUGAR TYME CRABAPPLE	MALUS SPECIES 'SUGAR TYME'	44-51 CAL	AS SHOWN	B & B





NOTES:

1. TRIM TREE FOR PROPOSED SIGN VISIBILITY.

SLOPE REPLANTING AREA SEEDING FORMULA

% MASS	NAME
43	CREEPING RED FESCUE
39	PERENNIAL RYE GRASS
6	RED TOP
6	ALSIKE CLOVER
6	BIRDSFOOT TREFOIL

SEED TO BE APPLIED AT 67 kg/ha (112 kg/ha FOR HYDROSEEDER). ADD INNOCULANT FOR BIRDSFOOT TREFOIL AT RECOMMENDED RATE.

LEGEND

- DENOTES TREE OR STUMP REMOVAL (DASHED SIGNIFIES WOODS TREES PAID AS CLEARING/GRUBBING)
- DENOTES TREES TO BE PROTECTED DURING CONSTRUCTION (SEE TREE PROTECTION DETAILS)
- **008** EXISTING TREE INVENTORY NUMBER
- (??) NEW TREES, ?? = SPECIES

LANDSCAPE PLAN 2

PROJECT NAME: BRANDON
PROJECT NUMBER: NH 019-3(496)

FILE NAME: zb008s6-ldsc.dgn
PROJECT LEADER: C. BEAN
DESIGNED BY: M. HALEY
PLOT DATE: 2/23/2017
DRAWN BY: M. HALEY
CHECKED BY: D. MUNRO
SHEET 350 OF 601

CLD 02-0448 MODEL: 2

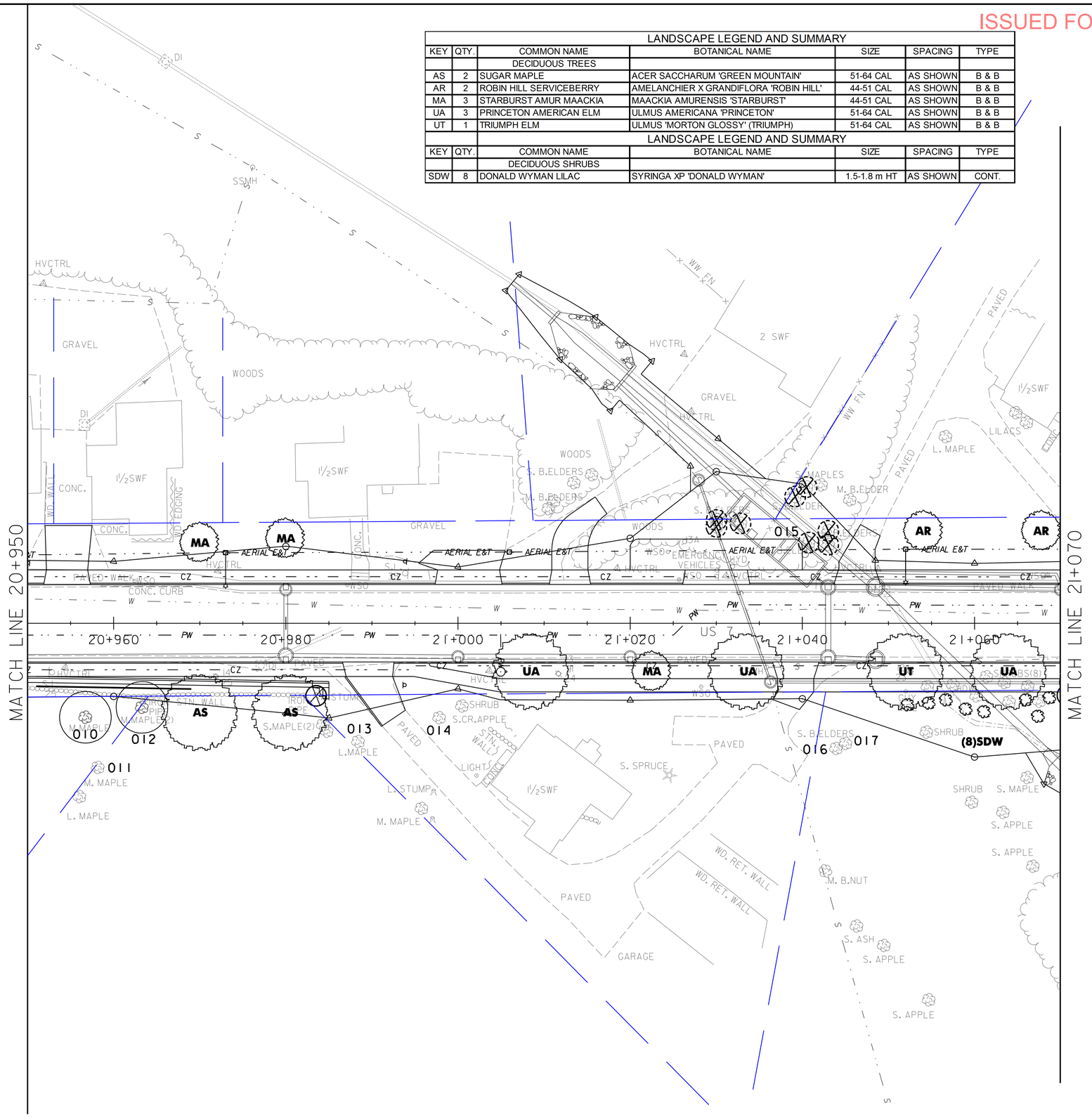
ISSUED FOR CONSTRUCTION

VAOT Metric

LANDSCAPE LEGEND AND SUMMARY						
KEY	QTY.	COMMON NAME	BOTANICAL NAME	SIZE	SPACING	TYPE
		DECIDUOUS TREES				
AS	2	SUGAR MAPLE	ACER SACCHARUM 'GREEN MOUNTAIN'	51-64 CAL	AS SHOWN	B & B
AR	2	ROBIN HILL SERVICEBERRY	AMELANCHIER X GRANDIFLORA 'ROBIN HILL'	44-51 CAL	AS SHOWN	B & B
MA	3	STARBURST AMUR MAACKIA	MAACKIA AMURENSIS 'STARBURST'	44-51 CAL	AS SHOWN	B & B
UA	3	PRINCETON AMERICAN ELM	ULMUS AMERICANA 'PRINCETON'	51-64 CAL	AS SHOWN	B & B
UT	1	TRIUMPH ELM	ULMUS 'MORTON GLOSSY' (TRIUMPH)	51-64 CAL	AS SHOWN	B & B

LANDSCAPE LEGEND AND SUMMARY						
KEY	QTY.	COMMON NAME	BOTANICAL NAME	SIZE	SPACING	TYPE
		DECIDUOUS SHRUBS				
SDW	8	DONALD WYMAN LILAC	SYRINGA XP 'DONALD WYMAN'	1.5-1.8 m HT	AS SHOWN	CONT.

VT STATE PLANE GRID N



LEGEND

- DENOTES TREE OR STUMP REMOVAL (DASHED SIGNIFIES WOODS TREES PAID AS CLEARING/GRUBBING)
- DENOTES TREES TO BE PROTECTED DURING CONSTRUCTION (SEE TREE PROTECTION DETAILS)
- **008** EXISTING TREE INVENTORY NUMBER
- **??** NEW TREES, ?? = SPECIES

0 10 20 30

SCALE IN METERS

LANDSCAPE PLAN 3

PROJECT NAME: BRANDON
PROJECT NUMBER: NH 019-3(496)

FILE NAME: zb008s6-ldsc.dgn
PROJECT LEADER: C. BEAN
DESIGNED BY: M. HALEY

PLOT DATE: 2/23/2017
DRAWN BY: M. HALEY
CHECKED BY: D. MUNRO
SHEET 351 OF 601

CLD 02-0448 MODEL: 3

ISSUED FOR CONSTRUCTION

VT STATE PLANE GRID

N

MATCH LINE 21+070

MATCH LINE 21+210

LANDSCAPE LEGEND AND SUMMARY						
KEY	QTY.	COMMON NAME	BOTANICAL NAME	SIZE	SPACING	TYPE
		DECIDUOUS TREES				
AFC	3	CELEBRATION MAPLE	ACER X FREEMANII 'CELEBRATION'	51-64 CAL	AS SHOWN	B & B
CO	2	COMMON HACKBERRY	CELTIS OCCIDENTALIS	51-64 CAL	AS SHOWN	B & B
MA	1	STARBURST AMUR MAACKIA	MAACKIA AMURENSIS 'STARBURST'	51-64 CAL	AS SHOWN	B & B
MST	3	SUGAR TYME CRABAPPLE	MALUS SPECIES 'SUGAR TYME'	44-51 CAL	AS SHOWN	B & B
SR	3	JAPANESE TREE LILAC	SYRINGA RETICULATA 'IVORY SILK'	44-51 CAL	AS SHOWN	B & B
UA	1	PRINCETON AMERICAN ELM	ULMUS AMERICANA 'PRINCETON'	51-64 CAL	AS SHOWN	B & B
		EVERGREEN TREES				
PP	1	SELECT BLUE SPRUCE	PICEA PUNGENS 'BLUE SELECT'	2.1-2.4 m HT	AS SHOWN	B & B

LEGEND

- DENOTES TREE OR STUMP REMOVAL (DASHED SIGNIFIES WOODS TREES PAID AS CLEARING/GRUBBING)
- DENOTES TREES TO BE PROTECTED DURING CONSTRUCTION (SEE TREE PROTECTION DETAILS)
- **008** EXISTING TREE INVENTORY NUMBER
- ?? NEW TREES, ?? = SPECIES

0 10 20 30

SCALE IN METERS

LANDSCAPE PLAN 4

PROJECT NAME: BRANDON
PROJECT NUMBER: NH 019-3(496)

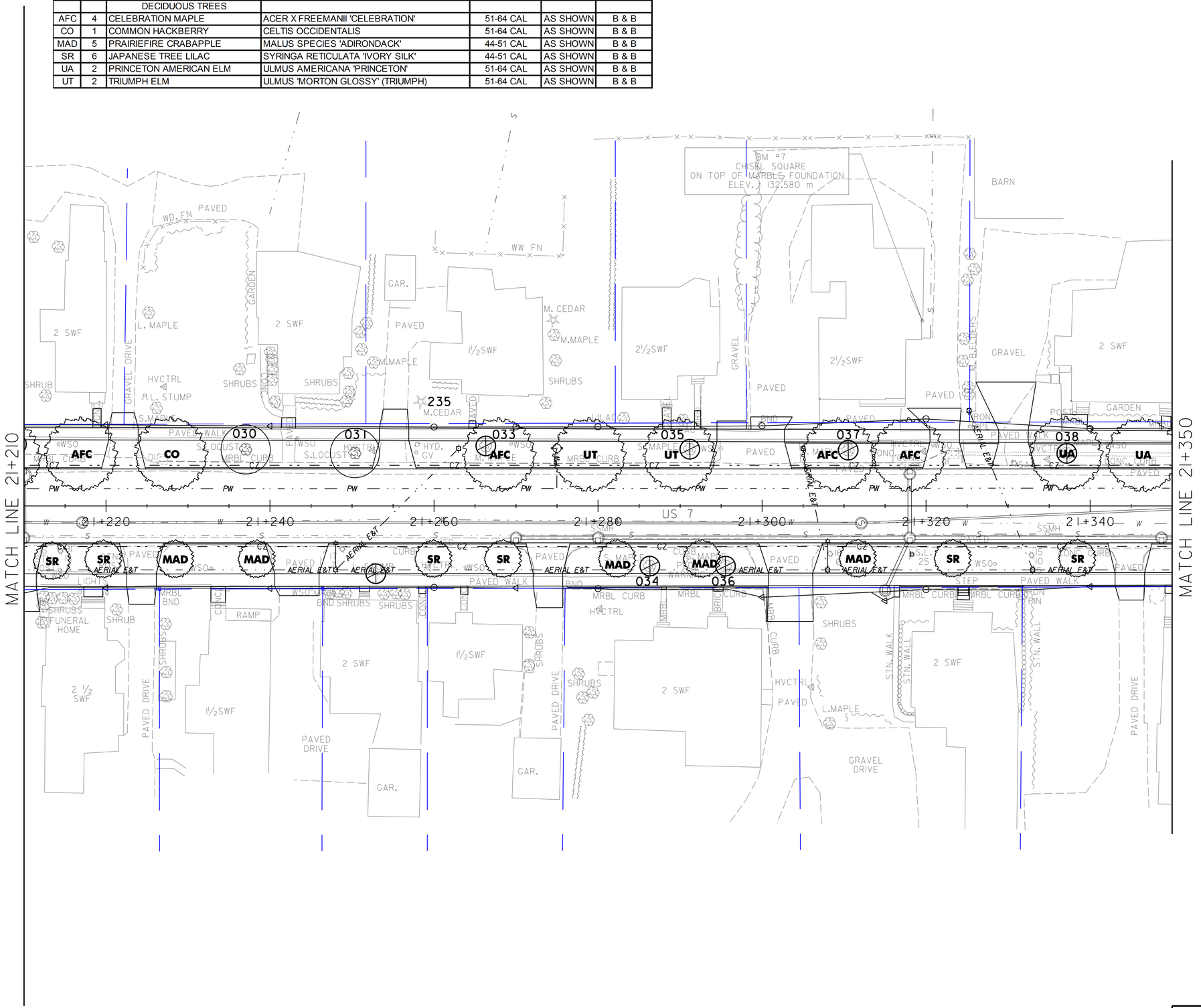
FILE NAME: zb0008s6-ldsc.dgn
PROJECT LEADER: C. BEAN
DESIGNED BY: M. HALEY
PLOT DATE: 2/23/2017
DRAWN BY: M. HALEY
CHECKED BY: D. MUNRO
SHEET 352 OF 601

CLD 02-0448 MODEL: 4

ISSUED FOR CONSTRUCTION

VAOT Metric

LANDSCAPE LEGEND AND SUMMARY						
KEY	QTY.	COMMON NAME	BOTANICAL NAME	SIZE	SPACING	TYPE
		DECIDUOUS TREES				
AFC	4	CELEBRATION MAPLE	ACER X FREEMANII 'CELEBRATION'	51-64 CAL	AS SHOWN	B & B
CO	1	COMMON HACKBERRY	CELTIS OCCIDENTALIS	51-64 CAL	AS SHOWN	B & B
MAD	5	PRAIRIEFIRE CRABAPPLE	MALUS SPECIES 'ADIRONDACK'	44-51 CAL	AS SHOWN	B & B
SR	6	JAPANESE TREE LILAC	SYRINGA RETICULATA 'IVORY SILK'	44-51 CAL	AS SHOWN	B & B
UA	2	PRINCETON AMERICAN ELM	ULMUS AMERICANA 'PRINCETON'	51-64 CAL	AS SHOWN	B & B
UT	2	TRIUMPH ELM	ULMUS 'MORTON GLOSSY' (TRIUMPH)	51-64 CAL	AS SHOWN	B & B



LEGEND

- DENOTES TREE OR STUMP REMOVAL (DASHED SIGNIFIES WOODS TREES PAID AS CLEARING/GRUBBING)
- DENOTES TREES TO BE PROTECTED DURING CONSTRUCTION (SEE TREE PROTECTION DETAILS)
- **008** EXISTING TREE INVENTORY NUMBER
- **??** NEW TREES, ?? = SPECIES

0 10 20 30

SCALE IN METERS

LANDSCAPE PLAN 5

PROJECT NAME: BRANDON
PROJECT NUMBER: NH 019-3(496)

FILE NAME: zb008s6-ldsc.dgn
PROJECT LEADER: C. BEAN
DESIGNED BY: M. HALEY
PLOT DATE: 2/23/2017
DRAWN BY: M. HALEY
CHECKED BY: D. MUNRO
SHEET 353 OF 601

CLD 02-0448 MODEL: 5

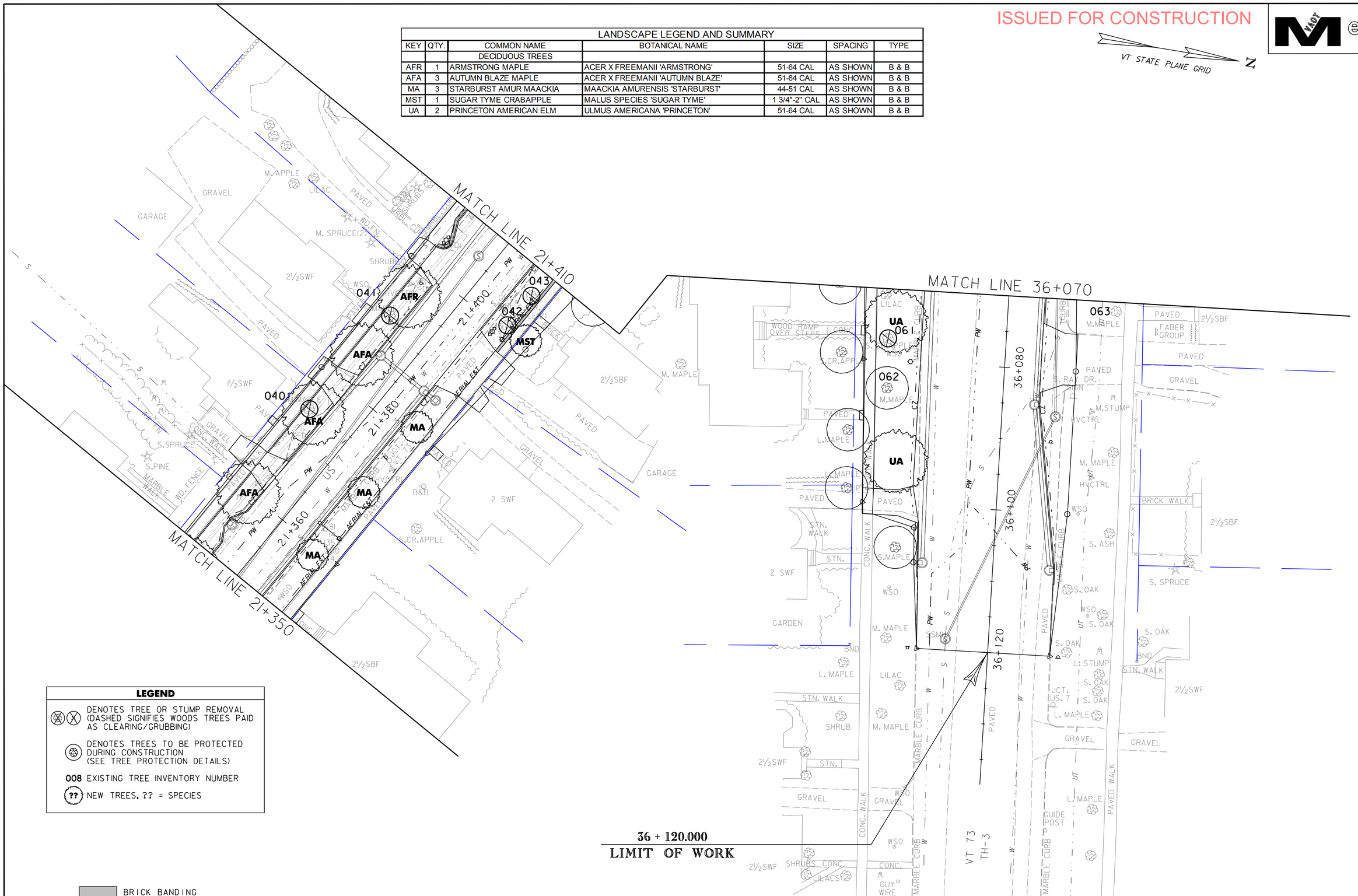
ISSUED FOR CONSTRUCTION

VT STATE PLANE GRID N

VAOT Metric

LANDSCAPE LEGEND AND SUMMARY

KEY	QTY.	COMMON NAME	BOTANICAL NAME	SIZE	SPACING	TYPE
		DECIDUOUS TREES				
AFR	1	ARMSTRONG MAPLE	ACER X FREEMANII 'ARMSTRONG'	51-64 CAL	AS SHOWN	B & B
AFA	3	AUTUMN BLAZE MAPLE	ACER X FREEMANII 'AUTUMN BLAZE'	51-64 CAL	AS SHOWN	B & B
MA	3	STARBURST AMUR MAACKIA	MAACKIA AMURENSIS 'STARBURST'	44-51 CAL	AS SHOWN	B & B
MST	1	SUGAR TYME CRABAPPLE	MALUS SPECIES 'SUGAR TYME'	1 3/4"-2" CAL	AS SHOWN	B & B
UA	2	PRINCETON AMERICAN ELM	ULMUS AMERICANA 'PRINCETON'	51-64 CAL	AS SHOWN	B & B



LEGEND

- DENOTES TREE OR STUMP REMOVAL (DASHED SIGNIFIES WOODS TREES PAID AS CLEARING/GRUBBING)
- DENOTES TREES TO BE PROTECTED DURING CONSTRUCTION (SEE TREE PROTECTION DETAILS)
- **008** EXISTING TREE INVENTORY NUMBER
- **??** NEW TREES, ?? = SPECIES

BRICK BANDING

0 10 20 30

SCALE IN METERS

LANDSCAPE PLAN 6

PROJECT NAME: BRANDON
PROJECT NUMBER: NH 019-3(496)

FILE NAME: zb008s6-ldsc.dgn
PROJECT LEADER: C. BEAN
DESIGNED BY: M. HALEY

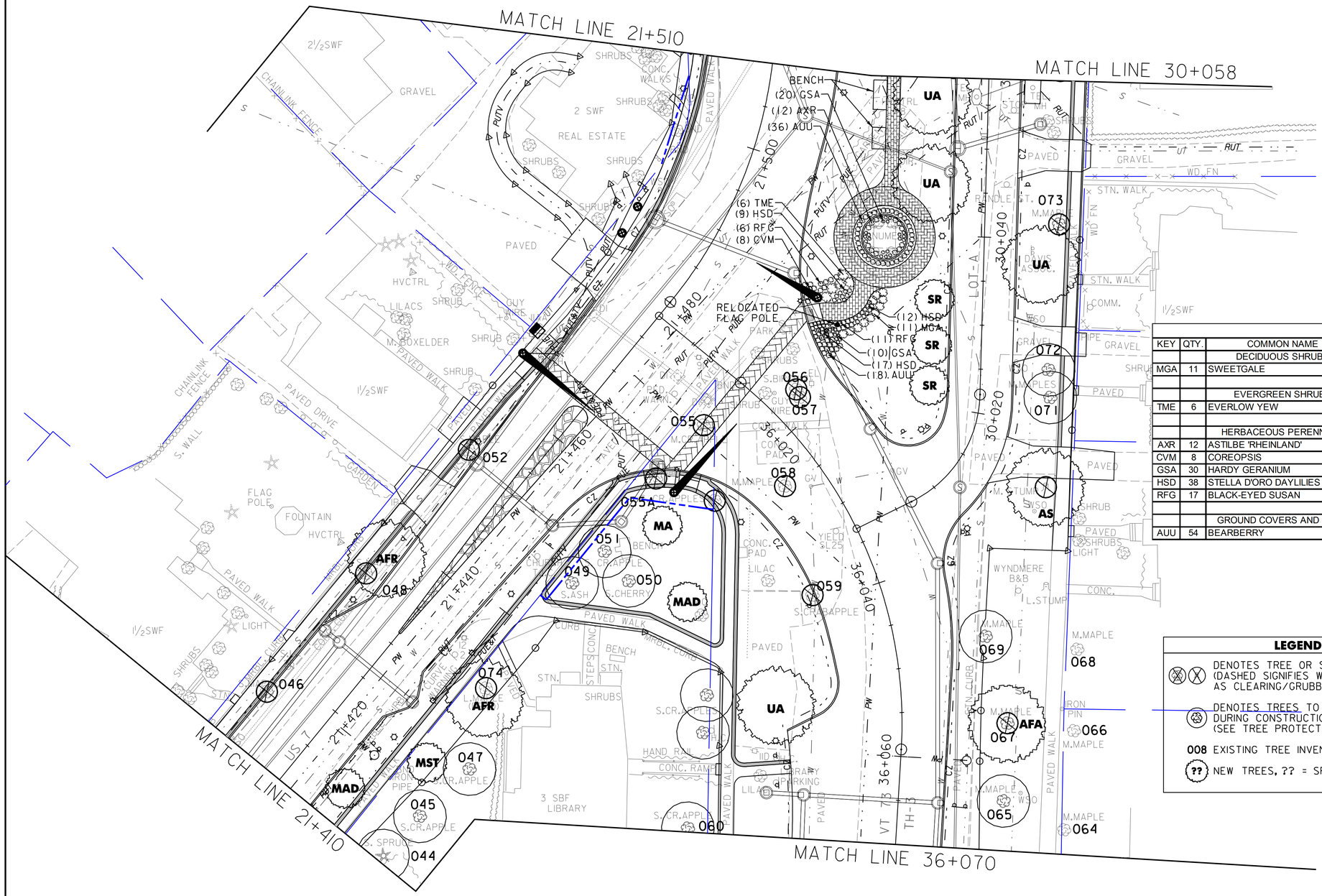
PLOT DATE: 2/23/2017
DRAWN BY: M. HALEY
CHECKED BY: D. MUNRO
SHEET 354 OF 601

CLD 02-0448 MODEL:6

ISSUED FOR CONSTRUCTION

VAOT Metric

VT STATE PLANE GRID



LANDSCAPE LEGEND AND SUMMARY						
KEY	QTY.	COMMON NAME	BOTANICAL NAME	SIZE	SPACING	TYPE
		DECIDUOUS SHRUBS				
MGA	11	SWEETGALE	MYRICA GALE	0.9 m HT	1.0 m O.C.	CONT.
		EVERGREEN SHRUBS				
TME	6	EVERLOW YEW	TAXUS MEDIA 'EVERLOW'	457-610	1.2 m O.C.	CONT.
		HERBACEOUS PERENNIALS				
AXR	12	ASTILBE 'RHEINLAND'	ASTILBE X 'RHEINLAND'	1 GAL	0.6 m	CONT.
CVM	8	COREOPSIS	COREOPSIS VERTICILLATA 'MOONBEAM'	1 GAL	0.6 m	CONT.
GSA	30	HARDY GERANIUM	GERANIUM SANGUINEUM 'ALPENGLOW'	1 GAL	0.4 m	CONT.
HSD	38	STELLA D'ORO DAYLILIES	HEMEROCALLIS STELLA D'ORO	1 GAL	0.47 m	CONT.
RFG	17	BLACK-EYED SUSAN	RUDBECKIA FULGIDA 'GOLDSTURM'	2 GAL	0.6 m	CONT.
		GROUND COVERS AND VINES				
AUU	54	BEARBERRY	ARCTOSTAPHYLOS UVA-URSI	1 GAL	0.6 m O.C.	CONT.

LEGEND

- DENOTES TREE OR STUMP REMOVAL (DASHED SIGNIFIES WOODS TREES PAID AS CLEARING/GRUBBING)
- DENOTES TREES TO BE PROTECTED DURING CONSTRUCTION (SEE TREE PROTECTION DETAILS)
- 008 EXISTING TREE INVENTORY NUMBER
- (??) NEW TREES, ?? = SPECIES

- BRICK BANDING
- BRICK SIDEWALK
- STAMPED CROSSWALKS
- STAMPED ISLANDS

LANDSCAPE LEGEND AND SUMMARY						
KEY	QTY.	COMMON NAME	BOTANICAL NAME	SIZE	SPACING	TYPE
		DECIDUOUS TREES				
AFR	2	ARMSTRONG MAPLE	ACER X FREEMANII 'ARMSTRONG'	51-64 CAL	AS SHOWN	B & B
AFA	1	AUTUMN BLAZE MAPLE	ACER X FREEMANII 'AUTUMN BLAZE'	51-64 CAL	AS SHOWN	B & B
AS	1	SUGAR MAPLE	ACER SACCHARUM 'GREEN MOUNTAIN'	51-64 CAL	AS SHOWN	B & B
MA	1	STARBURST AMUR MAACKIA	MAACKIA AMURENSIS 'STARBURST'	44-51 CAL	AS SHOWN	B & B
MAD	2	ADIRONDACK CRABAPPLE	MALUS SPECIES 'ADIRONDACK'	44-51 CAL	AS SHOWN	B & B
MST	2	SUGAR TYME CRABAPPLE	MALUS SPECIES 'SUGAR TYME'	44-51 CAL	AS SHOWN	B & B
SR	3	JAPANESE TREE LILAC	SYRINGA RETICULATA 'IVORY SILK'	44-51 CAL	AS SHOWN	B & B
UA	4	PRINCETON AMERICAN ELM	ULMUS AMERICANA 'PRINCETON'	51-64 CAL	AS SHOWN	B & B

0 10 20 30

SCALE IN METERS

LANDSCAPE PLAN 7

PROJECT NAME: BRANDON

PROJECT NUMBER: NH 019-3(496)

FILE NAME: zb008s6-ldsc.dgn
PROJECT LEADER: C. BEAN
DESIGNED BY: M. HALEY

PLOT DATE: 2/23/2017
DRAWN BY: M. HALEY
CHECKED BY: D. MUNRO
SHEET 355 OF 601

CLD 02-0448 MODEL: 7

ISSUED FOR CONSTRUCTION

VAOT Metric

SPECIAL PROVISION (GRANITE BOLLARD)
30+124.0 RT
30+130.4 RT
30+138.5 RT
30+146.6 RT

SPECIAL PROVISION (PARK BENCH)
21+512.3 RT (TYPE A)
21+562.4 RT (TYPE A)
21+562.9 RT (TYPE A)
21+587.7 RT (TYPE B)
30+096.7 RT (TYPE A)

SPECIAL PROVISION (BICYCLE RACK)
21+592.5 RT (TWO RACKS)
30+063.4 LT (TWO RACKS)

SPECIAL PROVISION (TREE GRATE, 1.8m X 1.8m)
SPECIAL PROVISION (TREE GUARD)
30+124.0 RT
30+130.4 RT
30+138.5 RT
30+146.6 RT

SPECIAL PROVISION (TRASH RECEPTACLE)
21+589.9 RT
30+067.0 LT

VT STATE PLANE GRID N

BM #6 (STA 21+600.3 RT)
USC & GS STANDARD DISC
IN CONC MONUMENT
STAMPED BRANDON 1955
ELEV. = 131.180 m

35 + 066.000
LIMIT OF WORK

MATCH LINE 21+615

MATCH LINE 30+149

MATCH LINE 21+510

MATCH LINE 30+058

(4) GRANITE BOLLARD
(10) TME
(4) TREE WELL WITH GRATE
BICYCLE RACK
TRASH RECEPTACLE
RELOCATED MAILBOX
BENCH
RELOCATED MARBLE ISLAND
RELOCATED LIGHT POLE
(10) TME
(5) CAH
(5) CRO
(11) RFG
(54) VMI
(9) AXF
(9) AXD
(9) AXR
(4) SJS
(5) IGS
(9) HPA
(3) HPA
(44) AUU
(9) IGS
(14) RFG
(5) CAH
(12) HMV
(9) NWL
(16) HSD
(8) AUU
(18) HSD
(5) TME
(4) TME
(4) CPE
(10) CRO
(5) SJS
(1) SBA
(6) AUU
(5) HSD
(13) CRO/
(4) CPE

LANDSCAPE LEGEND AND SUMMARY

KEY	QTY.	COMMON NAME	BOTANICAL NAME	SIZE	SPACING	TYPE
		DECIDUOUS TREES				
AFR	1	ARMSTRONG MAPLE	ACER X FREEMANII 'ARMSTRONG'	51-64 CAL	AS SHOWN	B & B
BN	3	HERITAGE RIVER BIRCH	BETULA NIGRA 'HERITAGE'	3.6-4.2m HT B&B	AS SHOWN	3-STEM MIN
GT	2	SKYLINE HONEYLOCUST	GLEDITSIA TRIACANTHOS INERMUS 'SKYLINE'	51-64 CAL	AS SHOWN	B & B
MST	5	SUGAR TYME CRABAPPLE	MALUS SPECIES 'SUGAR TYME'	44-51 CAL	AS SHOWN	B & B
PC	1	CHANTICLEER FLOWERING PEAR	PYRUS CALLERYANNA 'CHANTICLEER'	51-64 CAL	AS SHOWN	B & B
PSC	1	COLUMNAR SARGENT CHERRY	PRUNUS SARGENTII 'COLUMNARIS'	44-51 CAL	AS SHOWN	B & B
SR	12	JAPANESE TREE LILAC	SYRINGA RETICULATA 'IVORY SILK'	44-51 CAL	AS SHOWN	B & B
UA	1	PRINCETON AMERICAN ELM	ULMUS AMERICANA 'PRINCETON'	51-64 CAL	AS SHOWN	B & B
UT	4	TRIUMPH ELM	ULMUS 'MORTON GLOSSY' (TRIUMPH)	51-64 CAL	AS SHOWN	B & B
		EVERGREEN TREES				
PG	1	WHITE SPRUCE	PICEA GLAUCA	2.4-3.0 m HT	AS SHOWN	B & B

LANDSCAPE LEGEND AND SUMMARY

KEY	QTY.	COMMON NAME	BOTANICAL NAME	SIZE	SPACING	TYPE
		DECIDUOUS SHRUBS				
CAH	10	HUMMINGBIRD SUMMERSWEET	CLETHRA ALNIFOLIA 'HUMMINGBIRD'	0.6 m HT	1 m O.C.	CONT.
CPE	8	SWEERFERN	COMPTONIA PEREGRINA	457-610	1 m O.C.	CONT.
IGS	14	SHAMROCK INKBERRY	ILEX GLABRA 'SHAMROCK'	0.6 m HT	1 m O.C.	CONT.
SBA	1	ANTHONY WATERER SPIREA	SPIREA X BUMALDA 'ANTHONY WATERER'	0.6-0.9 m HT	1.5 m O.C.	CONT.
SJS	9	SHIBORI SPIREA	SPIREA JAPONICA 'SHIBORI'	0.6 m HT	1 m O.C.	CONT.
		EVERGREEN SHRUBS				
TME	39	EVERLOW YEW	TAXUS MEDIA 'EVERLOW'	457-610	1.2 m O.C.	CONT.
		HERBACEOUS PERENNIALS				
AXR	9	ASTILBE 'RHEINLAND'	ASTILBE X 'RHEINLAND'	1 GAL	0.6 m	CONT.
AXD	9	ASTILBE 'DEUTCHLAND'	ASTILBE X 'DEUTCHLAND'	1 GAL	0.6 m	CONT.
AXF	9	ASTILBE 'FANAL'	ASTILBE X 'FANAL'	1 GAL	0.47 m	CONT.
CRO	33	PINK COREOPSIS	COREOPSIS ROSEA	1 GAL	0.47 m	CONT.
HSD	34	STELLA D'ORO DAYLILIES	HEMEROCALLIS STELLA D'ORO	1 GAL	0.47 m	CONT.
HMV	12	DAYLILIES MIX	HEMEROCALLIS [MIXED VARIETIES]	1 GAL	0.47-0.6 m	**
			**[LONG SEASON BLOOM, NO ORANGE OR LEMON - MIX IN GROUPS OF 3: 'JOAN SENIOR', 'HALLS PINK', 'ROSY RETURNS', 'COOL IT', 'BITSY']			
HPA	12	HOSTA	HOSTA 'PATRIOT'	1 GAL	0.76 m	CONT.
NWL	9	CATMINT	NEPETA 'WALKER'S LOW'	1 GAL	0.4 m	CONT.
RFG	25	BLACK-EYED SUSAN	RUDBECKIA FULGIDA 'GOLDSTURM'	2 GAL	0.6 m	CONT.
		GROUND COVERS AND VINES				
AUU	66	BEARBERRY	ARCTOSTAPHYLOS UVA-URSI	1 GAL	0.6 m O.C.	CONT.
VMI	54	MYRTLE	VINCA MINOR	1 YEAR PLUG	0.25 m	1 YEAR PLUG

LEGEND

- DENOTES TREE OR STUMP REMOVAL (DASHED SIGNIFIES WOODS TREES PAID AS CLEARING/GRUBBING)
- DENOTES TREES TO BE PROTECTED DURING CONSTRUCTION (SEE TREE PROTECTION DETAILS)
- 008 EXISTING TREE INVENTORY NUMBER
- ?? NEW TREES, ?? = SPECIES

BRICK BANDING
BRICK SIDEWALK
STAMPED CROSSWALKS
STAMPED ISLANDS
SPECIAL SIDEWALK

0 10 20 30
SCALE IN METERS

LANDSCAPE PLAN 8

PROJECT NAME: BRANDON
PROJECT NUMBER: NH 019-3(496)

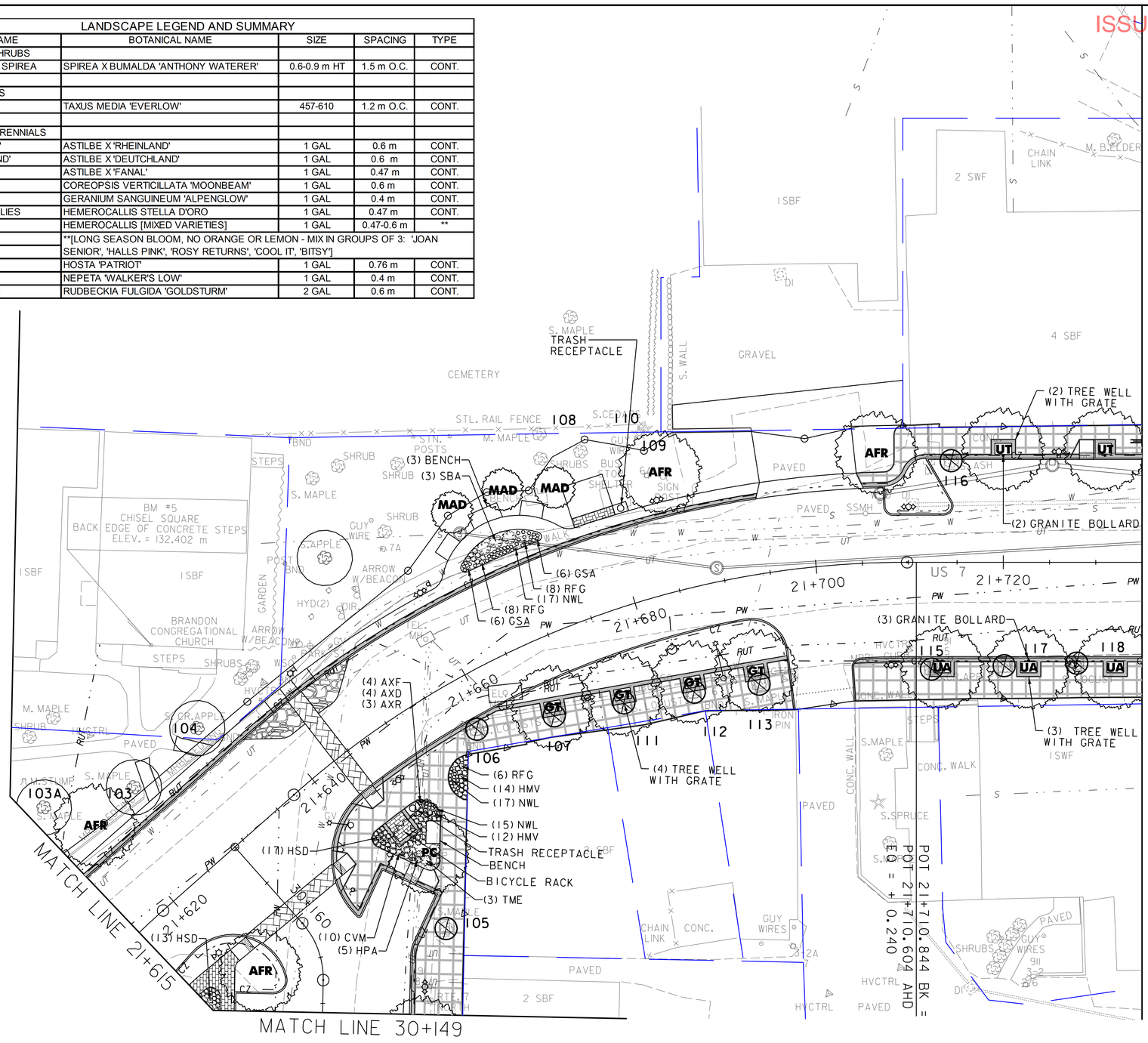
FILE NAME: zb008s6-ldsc.dgn
PROJECT LEADER: C. BEAN
DESIGNED BY: M. HALEY
PLOT DATE: 2/23/2017
DRAWN BY: M. HALEY
CHECKED BY: D. MUNRO
SHEET 356 OF 601

CLD 02-0448 MODEL: 8

ISSUED FOR CONSTRUCTION

VAOT Metric

LANDSCAPE LEGEND AND SUMMARY						
KEY	QTY.	COMMON NAME	BOTANICAL NAME	SIZE	SPACING	TYPE
		DECIDUOUS SHRUBS				
SBA	3	ANTHONY WATERER SPIREA	SPIREA X BUMALDA 'ANTHONY WATERER'	0.6-0.9 m HT	1.5 m O.C.	CONT.
		EVERGREEN SHRUBS				
TME	3	EVERLOW YEW	TAXUS MEDIA 'EVERLOW'	457-610	1.2 m O.C.	CONT.
		HERBACEOUS PERENNIALS				
AXR	3	ASTILBE 'RHEINLAND'	ASTILBE X 'RHEINLAND'	1 GAL	0.6 m	CONT.
AXD	4	ASTILBE 'DEUTCHLAND'	ASTILBE X 'DEUTCHLAND'	1 GAL	0.6 m	CONT.
AXF	4	ASTILBE 'FANAL'	ASTILBE X 'FANAL'	1 GAL	0.47 m	CONT.
CVM	10	COREOPSIS	COREOPSIS VERTICILLATA 'MOONBEAM'	1 GAL	0.6 m	CONT.
GSA	12	HARDY GERANIUM	GERANIUM SANGUINEUM 'ALPENGLOW'	1 GAL	0.4 m	CONT.
HSD	30	STELLA D'ORO DAYLILIES	HEMEROCALLIS STELLA D'ORO	1 GAL	0.47 m	CONT.
HMV	26	DAYLILIES MIX	HEMEROCALLIS [MIXED VARIETIES]	1 GAL	0.47-0.6 m	**
			**[LONG SEASON BLOOM, NO ORANGE OR LEMON - MIX IN GROUPS OF 3: 'JOAN SENIOR', 'HALLS PINK', 'ROSY RETURNS', 'COOL IT', 'BITSY']			
HPA	5	HOSTA	HOSTA 'PATRIOT'	1 GAL	0.76 m	CONT.
NWL	49	CATMINT	NEPETA 'WALKER'S LOW'	1 GAL	0.4 m	CONT.
RFG	22	BLACK-EYED SUSAN	RUDBECKIA FULGIDA 'GOLDSTURM'	2 GAL	0.6 m	CONT.



SPECIAL PROVISION (GRANITE BOLLARD)
21+713.4 RT
21+720.0 LT
21+722.7 RT
21+731.0 LT
21+732.1 RT

SPECIAL PROVISION (PARK BENCH)
21+647.2 RT (TYPE A)
21+664.4 LT (TYPE A)
21+668.9 LT (TYPE B)
21+673.2 LT (TYPE A)

SPECIAL PROVISION
(TREE GRATE, 1.8m X 1.2m)
SPECIAL PROVISION (TREE GUARD)
21+667.2 RT
21+675.4 RT
21+683.8 RT
21+691.6 RT
21+713.4 RT
21+720.0 LT
21+722.7 RT
21+731.0 LT
21+732.1 RT

SPECIAL PROVISION (TRASH RECEPTACLE)
21+646.7 RT
21+687.6 LT

SPECIAL PROVISION (BICYCLE RACK)
21+644.4 RT (TWO RACKS)

LEGEND

- DENOTES TREE OR STUMP REMOVAL (DASHED SIGNIFIES WOODS TREES PAID AS CLEARING/GRUBBING)
- DENOTES TREES TO BE PROTECTED DURING CONSTRUCTION (SEE TREE PROTECTION DETAILS)
- 008 EXISTING TREE INVENTORY NUMBER
- ?? NEW TREES, ?? = SPECIES

BRICK BANDING
BRICK SIDEWALK
STAMPED CROSSWALKS
STAMPED ISLANDS
SPECIAL SIDEWALK

LANDSCAPE LEGEND AND SUMMARY						
KEY	QTY.	COMMON NAME	BOTANICAL NAME	SIZE	SPACING	TYPE
		DECIDUOUS TREES				
AFR	4	ARMSTRONG MAPLE	ACER X FREEMANII 'ARMSTRONG'	51-64 CAL	AS SHOWN	B & B
GT	4	SKYLINE HONEYLOCUST	GLEDITSIA TRIACANTHOS INERMUS 'SKYLINE'	51-64 CAL	AS SHOWN	B & B
MAD	3	ADIRONDACK CRABAPPLE	MALUS SPECIES 'ADIRONDACK'	44-51 CAL	AS SHOWN	B & B
PC	1	CHANTICLEER FLOWERING PEAR	PYRUS CALLERYANNA 'CHANTICLEER'	51-64 CAL	AS SHOWN	B & B
UA	3	PRINCETON AMERICAN ELM	ULMUS AMERICANA 'PRINCETON'	51-64 CAL	AS SHOWN	B & B
UT	2	TRIUMPH ELM	ULMUS 'MORTON GLOSSY' (TRIUMPH)	2"-2 1/2" CAL	AS SHOWN	B & B

0 10 20 30
SCALE IN METERS

LANDSCAPE PLAN 9

PROJECT NAME: BRANDON
PROJECT NUMBER: NH 019-3(496)

FILE NAME: zb008s6-ldsc.dgn
PROJECT LEADER: C. BEAN
DESIGNED BY: M. HALEY
PLOT DATE: 2/23/2017
DRAWN BY: M. HALEY
CHECKED BY: D. MUNRO
SHEET 357 OF 601

CLD 02-0448 MODEL: 9

ISSUED FOR CONSTRUCTION

VAOT Metric

LANDSCAPE LEGEND AND SUMMARY						
KEY	QTY.	COMMON NAME	BOTANICAL NAME	SIZE	SPACING	TYPE
		DECIDUOUS TREES				
SR	2	JAPANESE TREE LILAC	SYRINGA RETICULATA 'IVORY SILK'	44-51 CAL	AS SHOWN	B & B
UA	3	PRINCETON AMERICAN ELM	ULMUS AMERICANA 'PRINCETON'	51-64 CAL	AS SHOWN	B & B
UT	1	TRIUMPH ELM	ULMUS 'MORTON GLOSSY' (TRIUMPH)	51-64 CAL	AS SHOWN	B & B

VT STATE PLANE GRID N

MATCH LINE 21+735

MATCH LINE 21+870

BM #4 CHISEL SQUARE TOP OF CONC. WALL ELEV. = 125.526

(2) GRANITE BOLLARD

(2) TREE WELL WITH GRATE

TREE WELL WITH GRATE

TRASH RECEPTACLE

(5) TME
(10) CRO
(6) MGA
(8) HPA
(12) HSD
(9) WFM
(7) HMV
(12) AUU
(15) HSD
(5) HPA BENCH
(12) HMV
(1) TME
(6) TME
(7) HMV

SPECIAL PROVISION (GRANITE BOLLARD)
21+741.4 RT
21+751.4 RT

SPECIAL PROVISION (PARK BENCH)
21+791.2 RT (TYPE B)

SPECIAL PROVISION
(TREE GRATE, 1.8m X 1.2m)
SPECIAL PROVISION (TREE GUARD)
21+741.4 RT
21+751.5 RT
21+805.9 RT

SPECIAL PROVISION (TRASH RECEPTACLE)
21+801.2 RT

LEGEND

- DENOTES TREE OR STUMP REMOVAL (DASHED SIGNIFIES WOODS TREES PAID AS CLEARING/GRUBBING)
- DENOTES TREES TO BE PROTECTED DURING CONSTRUCTION (SEE TREE PROTECTION DETAILS)
- 008 EXISTING TREE INVENTORY NUMBER
- ?? NEW TREES, ?? = SPECIES

- BRICK BANDING
- BRICK SIDEWALK
- STAMPED CROSSWALKS
- STAMPED ISLANDS
- SPECIAL SIDEWALK

9 + 090.000
LIMIT OF WORK

LANDSCAPE LEGEND AND SUMMARY						
KEY	QTY.	COMMON NAME	BOTANICAL NAME	SIZE	SPACING	TYPE
		DECIDUOUS SHRUBS				
MGA	6	SWEETGALE	MYRICA GALE	0.9 m HT	1 m O.C.	CONT.
WFM	9	MINUET WEIGELA	WEIGELA FLORIDA 'MINUET'	1 GAL	1 m O.C.	CONT.
		EVERGREEN SHRUBS				
TME	12	EVERLOW YEW	TAXUS MEDIA 'EVERLOW'	457-610	1.2 m O.C.	CONT.
		HERBACEOUS PERENNIALS				
CRO	20	PINK COREOPSIS	COREOPSIS ROSEA	1 GAL	0.47 m	CONT.
HSD	27	STELLA D'ORO DAYLILIES	HEMEROCALLIS STELLA D'ORO	1 GAL	0.47 m	CONT.
HMV	26	DAYLILIES MIX	HEMEROCALLIS [MIXED VARIETIES]	1 GAL	0.47-0.6 m	**
			**[LONG SEASON BLOOM, NO ORANGE OR LEMON - MIX IN GROUPS OF 3: 'JOAN SENIOR', 'HALLS PINK', 'ROSY RETURNS', 'COOL IT', 'BITSY']			
HPA	13	HOSTA	HOSTA 'PATRIOT'	1 GAL	0.76 m	CONT.
		GROUND COVERS AND VINES				
AUU	24	BEARBERRY	ARCTOSTAPHYLOS UVA-URSI	1 GAL	0.6 m O.C.	CONT.

0 10 20 30
SCALE IN METERS

LANDSCAPE PLAN 10

PROJECT NAME: BRANDON
PROJECT NUMBER: NH 019-3(496)

FILE NAME: zb008s6-ldsc.dgn
PROJECT LEADER: C. BEAN
DESIGNED BY: M. HALEY
PLOT DATE: 2/23/2017
DRAWN BY: M. HALEY
CHECKED BY: D. MUNRO
SHEET 358 OF 601

CLD 02-0448 MODEL: 10

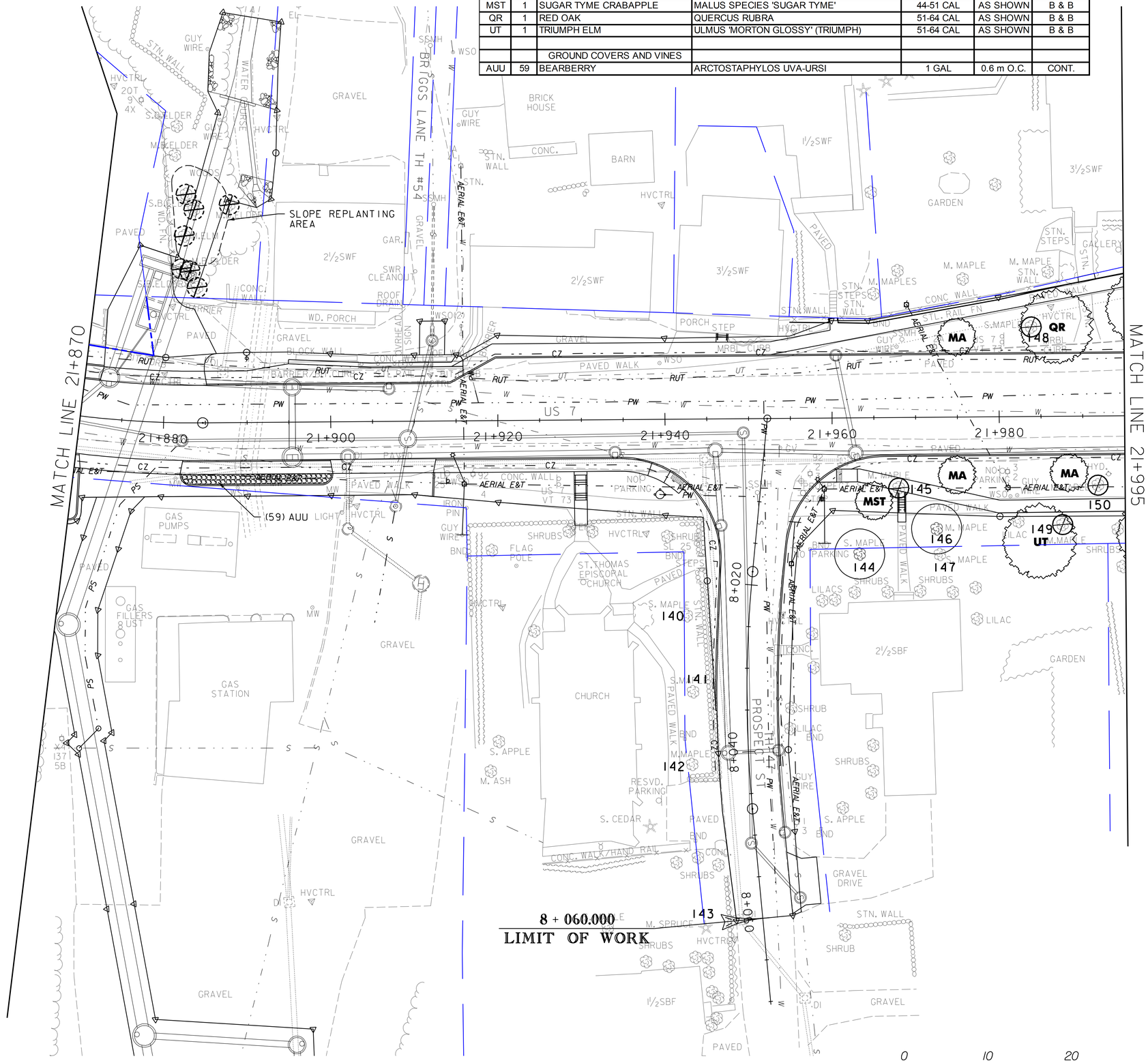
ISSUED FOR CONSTRUCTION

VAOT Metric

LANDSCAPE LEGEND AND SUMMARY						
KEY	QTY.	COMMON NAME	BOTANICAL NAME	SIZE	SPACING	TYPE
		DECIDUOUS TREES				
MA	3	STARBURST AMUR MAACKIA	MAACKIA AMURENSIS 'STARBURST'	44-51 CAL	AS SHOWN	B & B
MST	1	SUGAR TYME CRABAPPLE	MALUS SPECIES 'SUGAR TYME'	44-51 CAL	AS SHOWN	B & B
QR	1	RED OAK	QUERCUS RUBRA	51-64 CAL	AS SHOWN	B & B
UT	1	TRIUMPH ELM	ULMUS 'MORTON GLOSSY' (TRIUMPH)	51-64 CAL	AS SHOWN	B & B
		GROUND COVERS AND VINES				
AUU	59	BEARBERRY	ARCTOSTAPHYLOS UVA-URSI	1 GAL	0.6 m O.C.	CONT.

VT STATE PLANE GRID

N



SLOPE REPLANTING AREA SEEDING FORMULA

% MASS	NAME
43	CREEPING RED FESCUE
39	PERENNIAL RYE GRASS
6	RED TOP
6	ALSIKE CLOVER
6	BIRDSFOOT TREFOIL

SEED TO BE APPLIED AT 67 kg/ha (112 kg/ha FOR HYDROSEEDER). ADD INNOCULANT FOR BIRDSFOOT TREFOIL AT RECOMMENDED RATE.

LEGEND

- DENOTES TREE OR STUMP REMOVAL (DASHED SIGNIFIES WOODS TREES PAID AS CLEARING/GRUBBING)
- DENOTES TREES TO BE PROTECTED DURING CONSTRUCTION (SEE TREE PROTECTION DETAILS)
- 008 EXISTING TREE INVENTORY NUMBER
- ?? NEW TREES, ?? = SPECIES

0 10 20 30

SCALE IN METERS

LANDSCAPE PLAN II

PROJECT NAME: BRANDON
PROJECT NUMBER: NH 019-3(496)

FILE NAME: zb008s6-ldsc.dgn
PROJECT LEADER: C. BEAN
DESIGNED BY: M. HALEY
PLOT DATE: 2/23/2017
DRAWN BY: M. HALEY
CHECKED BY: D. MUNRO
SHEET 359 OF 601

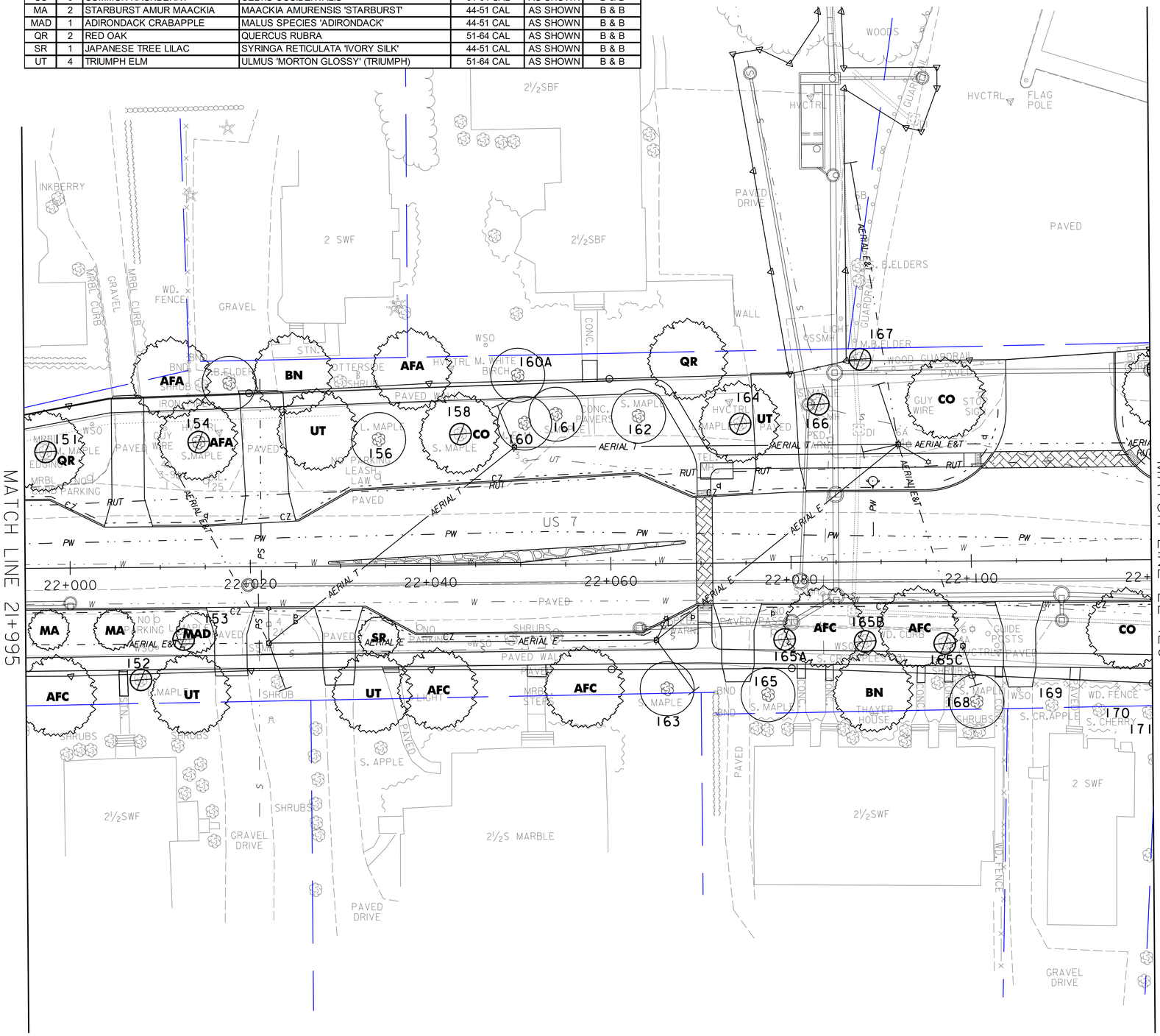
CLD 02-0448 MODEL: II

ISSUED FOR CONSTRUCTION

VAOT Metric

LANDSCAPE LEGEND AND SUMMARY

KEY	QTY.	COMMON NAME	BOTANICAL NAME	SIZE	SPACING	TYPE
		DECIDUOUS TREES				
AFA	3	AUTUMN BLAZE MAPLE	ACER X FREEMANII 'AUTUMN BLAZE'	51-64 CAL	AS SHOWN	B & B
AFC	5	CELEBRATION MAPLE	ACER X FREEMANII 'CELEBRATION'	51-64 CAL	AS SHOWN	B & B
BN	2	HERITAGE RIVER BIRCH	BETULA NIGRA 'HERITAGE'	3.6-4.2m HT B&B	AS SHOWN	3-STEM MIN
CO	3	COMMON HACKBERRY	CELTIS OCCIDENTALIS	51-64 CAL	AS SHOWN	B & B
MA	2	STARBURST AMUR MAACKIA	MAACKIA AMURENSIS 'STARBURST'	44-51 CAL	AS SHOWN	B & B
MAD	1	ADIRONDACK CRABAPPLE	MALUS SPECIES 'ADIRONDACK'	44-51 CAL	AS SHOWN	B & B
QR	2	RED OAK	QUERCUS RUBRA	51-64 CAL	AS SHOWN	B & B
SR	1	JAPANESE TREE LILAC	SYRINGA RETICULATA 'IVORY SILK'	44-51 CAL	AS SHOWN	B & B
UT	4	TRIUMPH ELM	ULMUS 'MORTON GLOSSY' (TRIUMPH)	51-64 CAL	AS SHOWN	B & B



VT STATE PLANE GRID

N

LEGEND

- DENOTES TREE OR STUMP REMOVAL (DASHED SIGNIFIES WOODS TREES PAID AS CLEARING/GRUBBING)
- DENOTES TREES TO BE PROTECTED DURING CONSTRUCTION (SEE TREE PROTECTION DETAILS)
- 008 EXISTING TREE INVENTORY NUMBER
- ?? NEW TREES, ?? = SPECIES

0 10 20 30

SCALE IN METERS

LANDSCAPE PLAN 12

PROJECT NAME: BRANDON
PROJECT NUMBER: NH 019-3(496)

FILE NAME: zb0008s6-ldsc.dgn
PROJECT LEADER: C. BEAN
DESIGNED BY: M. HALEY

PLOT DATE: 2/23/2017
DRAWN BY: M. HALEY
CHECKED BY: D. MUNRO
SHEET 360 OF 601

CLD 02-0448 MODEL: 12

ISSUED FOR CONSTRUCTION

VAOT Metric

LANDSCAPE LEGEND AND SUMMARY

KEY	QTY.	COMMON NAME	BOTANICAL NAME	SIZE	SPACING	TYPE
		DECIDUOUS TREES				
AFA	1	AUTUMN BLAZE MAPLE	ACER X FREEMANII 'AUTUMN BLAZE'	51-64 CAL	AS SHOWN	B & B
AFC	3	CELEBRATION MAPLE	ACER X FREEMANII 'CELEBRATION'	51-64 CAL	AS SHOWN	B & B
AR	1	ROBIN HILL SERVICEBERRY	AMELANCHIER X GRANDIFLORA 'ROBIN HILL'	44-51 CAL	AS SHOWN	B & B
BN	1	HERITAGE RIVER BIRCH	BETULA NIGRA 'HERITAGE'	3.6-4.2m HT B&B	AS SHOWN	3-STEM MIN
MST	2	SUGAR TYME CRABAPPLE	MALUS SPECIES 'SUGAR TYME'	44-51 CAL	AS SHOWN	B & B
PC	1	CHANTICLEER FLOWERING PEAR	PYRUS CALLERYANNA 'CHANTICLEER'	51-64 CAL	AS SHOWN	B & B
PSC	3	COLUMNAR SARGENT CHERRY	PRUNUS SARGENTII 'COLUMNARIS'	44-51 CAL	AS SHOWN	B & B
QR	3	RED OAK	QUERCUS RUBRA	51-64 CAL	AS SHOWN	B & B
SR	3	JAPANESE TREE LILAC	SYRINGA RETICULATA 'IVORY SILK'	44-51 CAL	AS SHOWN	B & B
UA	2	PRINCETON AMERICAN ELM	ULMUS AMERICANA 'PRINCETON'	51-64 CAL	AS SHOWN	B & B

LANDSCAPE LEGEND AND SUMMARY

KEY	QTY.	COMMON NAME	BOTANICAL NAME	KEY	SIZE	SPACING	TYPE
		DECIDUOUS SHRUBS					
CPE	4	SWEERFERN	COMPTONIA PEREGRINA	CPE	457-610	1 m O.C.	CONT.
IGS	20	SHAMROCK INKBERRY	ILEX GLABRA 'SHAMROCK'	IGS	0.6 m HT	1 m O.C.	CONT.
		EVERGREEN SHRUBS					
TME	20	EVERLOW YEW	TAXUS MEDIA 'EVERLOW'	TME	457-610	1.2 m O.C.	CONT.
		HERBACEOUS PERENNIALS					
HSD	78	STELLA D'ORO DAYLILIES	HEMEROCALLIS STELLA D'ORO	HSD	1 GAL	0.47 m	CONT.
HMV	105	DAYLILIES MIX	HEMEROCALLIS [MIXED VARIETIES]	HMV	1 GAL	0.47-0.6 m	**
			**[LONG SEASON BLOOM, NO ORANGE OR LEMON - MIX IN GROUPS OF 3: 'JOAN SENIOR', 'HALLS PINK', 'ROSY RETURNS', 'COOL IT', 'BITSY']				
NWL	47	CATMINT	NEPETA 'WALKER'S LOW'	NWL	1 GAL	0.4 m	CONT.
RFG	9	BLACK-EYED SUSAN	RUDBECKIA FULGIDA 'GOLDSTURM'	RFG	2 GAL	0.6 m	CONT.
		GROUND COVERS AND VINES					
AUU	170	BEARBERRY	ARCTOSTAPHYLOS UVA-URSI	AUU	1 GAL	0.6 m O.C.	CONT.

SPECIAL PROVISION (PARK BENCH)
22+157.2 LT (TYPE A)
22+164.6 LT (TYPE B)
22+169.7 LT (TYPE A)
19+036.8 RT (TYPE A)
19+042.4 RT (TYPE A)

SPECIAL PROVISION (TRASH RECEPTACLE)
22+153.8 LT

VT STATE PLANE GRID
N

LEGEND

- DENOTES TREE OR STUMP REMOVAL (DASHED SIGNIFIES WOODS TREES PAID AS CLEARING/GRUBBING)
- DENOTES TREES TO BE PROTECTED DURING CONSTRUCTION (SEE TREE PROTECTION DETAILS)
- 008 EXISTING TREE INVENTORY NUMBER
- ?? NEW TREES, ?? = SPECIES

BRICK SIDEWALK
STAMPED CROSSWALKS
STAMPED ISLANDS

MATCH LINE 22+120

MATCH LINE 22+235

0 10 20 30
SCALE IN METERS

LANDSCAPE PLAN 13

PROJECT NAME: BRANDON
PROJECT NUMBER: NH 019-3(496)

FILE NAME: zb008s6-ldsc.dgn
PROJECT LEADER: C. BEAN
DESIGNED BY: M. HALEY
PLOT DATE: 2/23/2017
DRAWN BY: M. HALEY
CHECKED BY: D. MUNRO
SHEET 361 OF 601

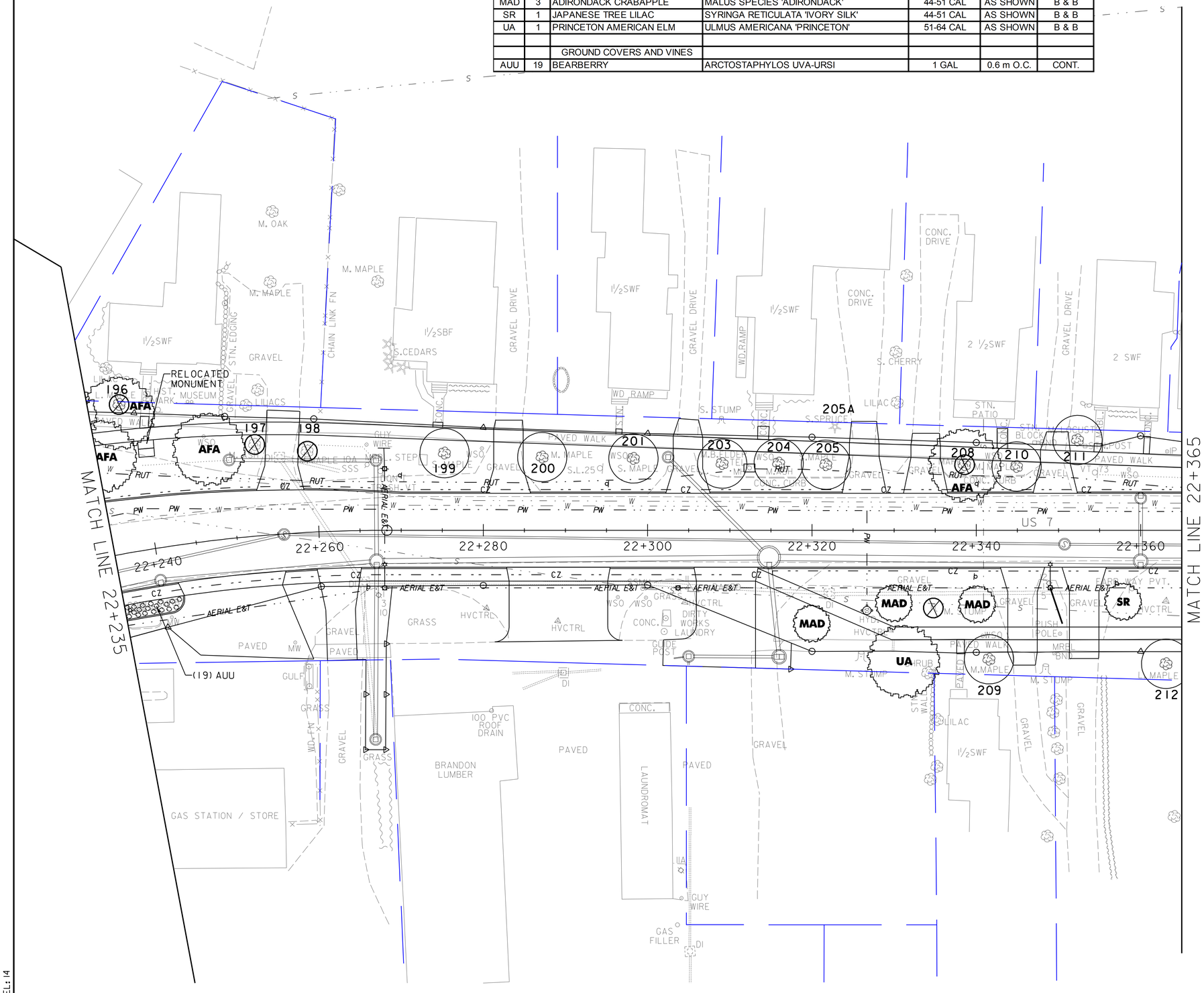
CLD 02-0448 MODEL: i3

ISSUED FOR CONSTRUCTION

VAOT Metric

LANDSCAPE LEGEND AND SUMMARY						
KEY	QTY.	COMMON NAME	BOTANICAL NAME	SIZE	SPACING	TYPE
		DECIDUOUS TREES				
AFA	4	AUTUMN BLAZE MAPLE	ACER X FREEMANII 'AUTUMN BLAZE'	51-64 CAL	AS SHOWN	B & B
MAD	3	ADIRONDACK CRABAPPLE	MALUS SPECIES 'ADIRONDACK'	44-51 CAL	AS SHOWN	B & B
SR	1	JAPANESE TREE LILAC	SYRINGA RETICULATA 'IVORY SILK'	44-51 CAL	AS SHOWN	B & B
UA	1	PRINCETON AMERICAN ELM	ULMUS AMERICANA 'PRINCETON'	51-64 CAL	AS SHOWN	B & B
		GROUND COVERS AND VINES				
AUU	19	BEARBERRY	ARCTOSTAPHYLOS UVA-URSI	1 GAL	0.6 m O.C.	CONT.

VT STATE PLANE GRID N



LEGEND

- ⊗⊗ DENOTES TREE OR STUMP REMOVAL (DASHED SIGNIFIES WOODS TREES PAID AS CLEARING/GRUBBING)
- ⊗ DENOTES TREES TO BE PROTECTED DURING CONSTRUCTION (SEE TREE PROTECTION DETAILS)
- **008** EXISTING TREE INVENTORY NUMBER
- (??) NEW TREES, ?? = SPECIES

0 10 20 30

SCALE IN METERS

LANDSCAPE PLAN 14

PROJECT NAME: BRANDON
PROJECT NUMBER: NH 019-3(496)

FILE NAME: zb008s6-ldsc.dgn
PROJECT LEADER: C. BEAN
DESIGNED BY: M. HALEY
PLOT DATE: 2/23/2017
DRAWN BY: M. HALEY
CHECKED BY: D. MUNRO
SHEET 362 OF 601

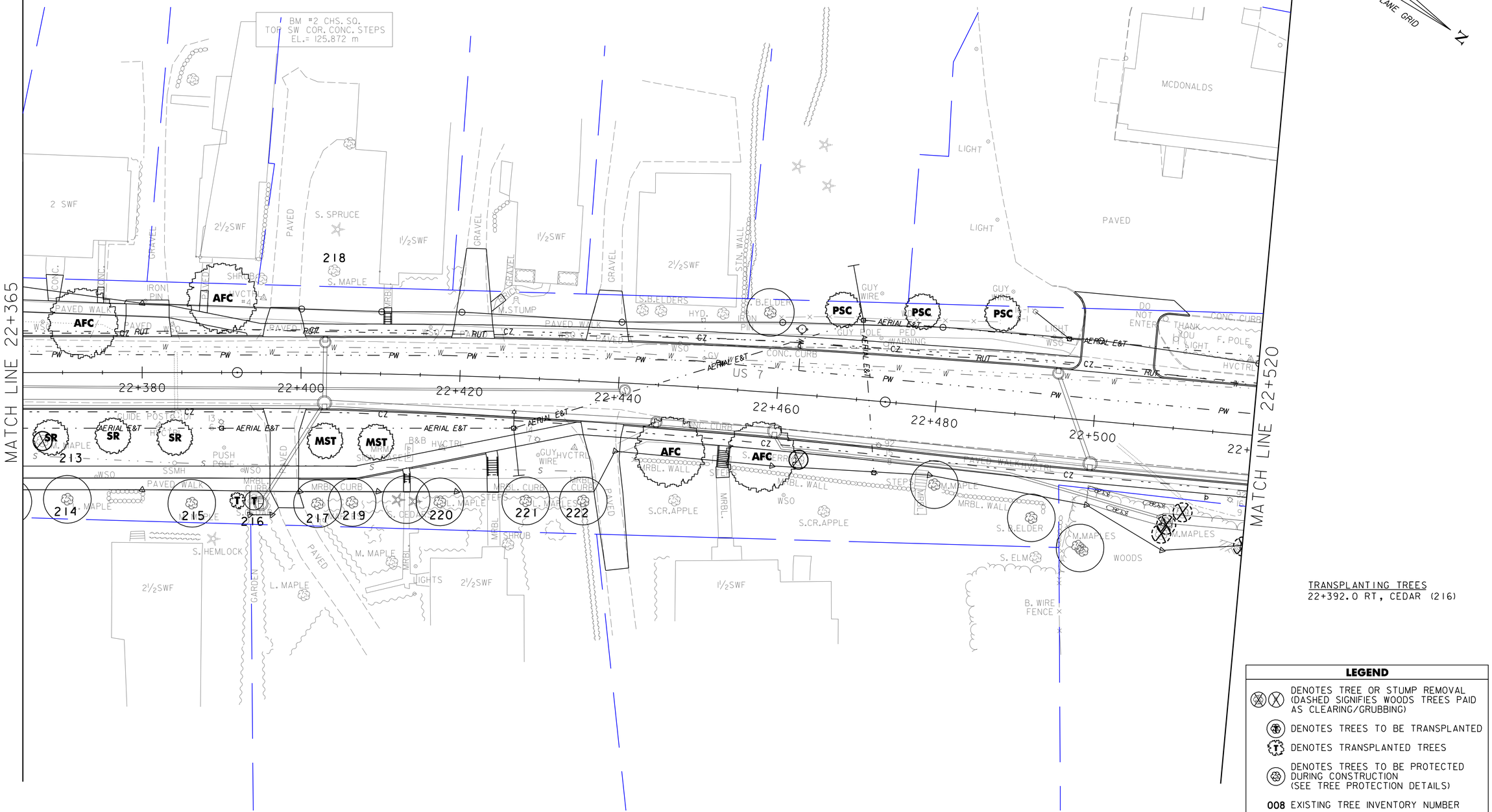
CLD 02-0448 MODEL: 14

ISSUED FOR CONSTRUCTION

VAOT Metric

LANDSCAPE LEGEND AND SUMMARY

KEY	QTY.	COMMON NAME	BOTANICAL NAME	SIZE	SPACING	TYPE
		DECIDUOUS TREES				
AFC	4	CELEBRATION MAPLE	ACER X FREEMANII 'CELEBRATION'	51-64 CAL	AS SHOWN	B & B
MST	2	SUGAR TYME CRABAPPLE	MALUS SPECIES 'SUGAR TYME'	44-51 CAL	AS SHOWN	B & B
PSC	3	COLUMNAR SARGENT CHERRY	PRUNUS SARGENTII 'COLUMNARIS'	44-51 CAL	AS SHOWN	B & B
SR	3	JAPANESE TREE LILAC	SYRINGA RETICULATA 'IVORY SILK'	44-51 CAL	AS SHOWN	B & B



TRANSPLANTING TREES
22+392.0 RT, CEDAR (216)

LEGEND

- DENOTES TREE OR STUMP REMOVAL (DASHED SIGNIFIES WOODS TREES PAID AS CLEARING/GRUBBING)
- DENOTES TREES TO BE TRANSPLANTED
- DENOTES TRANSPLANTED TREES
- DENOTES TREES TO BE PROTECTED DURING CONSTRUCTION (SEE TREE PROTECTION DETAILS)
- 008 EXISTING TREE INVENTORY NUMBER
- ?? NEW TREES, ?? = SPECIES

0 10 20 30
SCALE IN METERS

LANDSCAPE PLAN 15

PROJECT NAME: BRANDON
PROJECT NUMBER: NH 019-3(496)

FILE NAME: zb008s6-ldsc.dgn
PROJECT LEADER: C. BEAN
DESIGNED BY: M. HALEY
PLOT DATE: 2/23/2017
DRAWN BY: M. HALEY
CHECKED BY: D. MUNRO
SHEET 363 OF 601

CLD 02-0448 MODEL: I5

ISSUED FOR CONSTRUCTION

VAOT Metric

VT STATE PLANE GRID N

MATCH LINE 22+520

22 + 630.000
END PROJECT
NH 019-3(496)
BEGIN APPROACH

22 + 680.000
END APPROACH

GAS PUMPS
CONC.
PAVED
CONC. CURB
MON. WELLS AND GAS FILLERS
BND
SHELL
VENT
LIGHT
CONC. CURB
S.L. 35
HVCTRL
PAVED
SHRUB
GRAVEL
W. WIRE FENCE
CONC
BRANDON AUTO SALES
WSO
DRIVE
CONC
PAVED
AERIAL E&T
CZ
PW
W
UT
RHT
CB
PIN
HVCTRL
GV
GV
STIC
BND
PAVED
US 7

22+520 22+540 22+560 22+580 22+600 22+620 22+640 22+660 22+680 22+700

CONC. CURB
CZ
SL 40
THROUGH
WAY BEGINS
HERE
GUY WIRE
17
10
HVCTRL
#3
DITCH
DICH
CONC. CURB
PAVED WALK
CHAIN LINK FENCE
ABANDONED QUARRY
GUY WIRE
18
11
S. LOCUST
BND
GRAVEL
PAVED
WD. FENCE
SHRUB
S. LOCUST
2½SWF

MAPLES
S.MAPLE
M.MAPLE
MAPLE
WOODS
LEDGE
M. MAPLE
S.MAPLES
S.BASSWD
LEDGE
M. MAPLE
LEDGE

BM #1 CHS. SQ.
IN LEDGE
EL.= 120.49 m

LEGEND

- DENOTES TREE OR STUMP REMOVAL (DASHED SIGNIFIES WOODS TREES PAID AS CLEARING/GRUBBING)
- DENOTES TREES TO BE PROTECTED DURING CONSTRUCTION (SEE TREE PROTECTION DETAILS)
- **008** EXISTING TREE INVENTORY NUMBER
- **??** NEW TREES, ?? = SPECIES

0 10 20 30
SCALE IN METERS

LANDSCAPE PLAN 16

PROJECT NAME: BRANDON
PROJECT NUMBER: NH 019-3(496)

FILE NAME: zb008s6-ldsc.dgn
PROJECT LEADER: C. BEAN
DESIGNED BY: M. HALEY
PLOT DATE: 2/23/2017
DRAWN BY: M. HALEY
CHECKED BY: D. MUNRO
SHEET 364 OF 601

CLD 02-0448 MODEL: 16

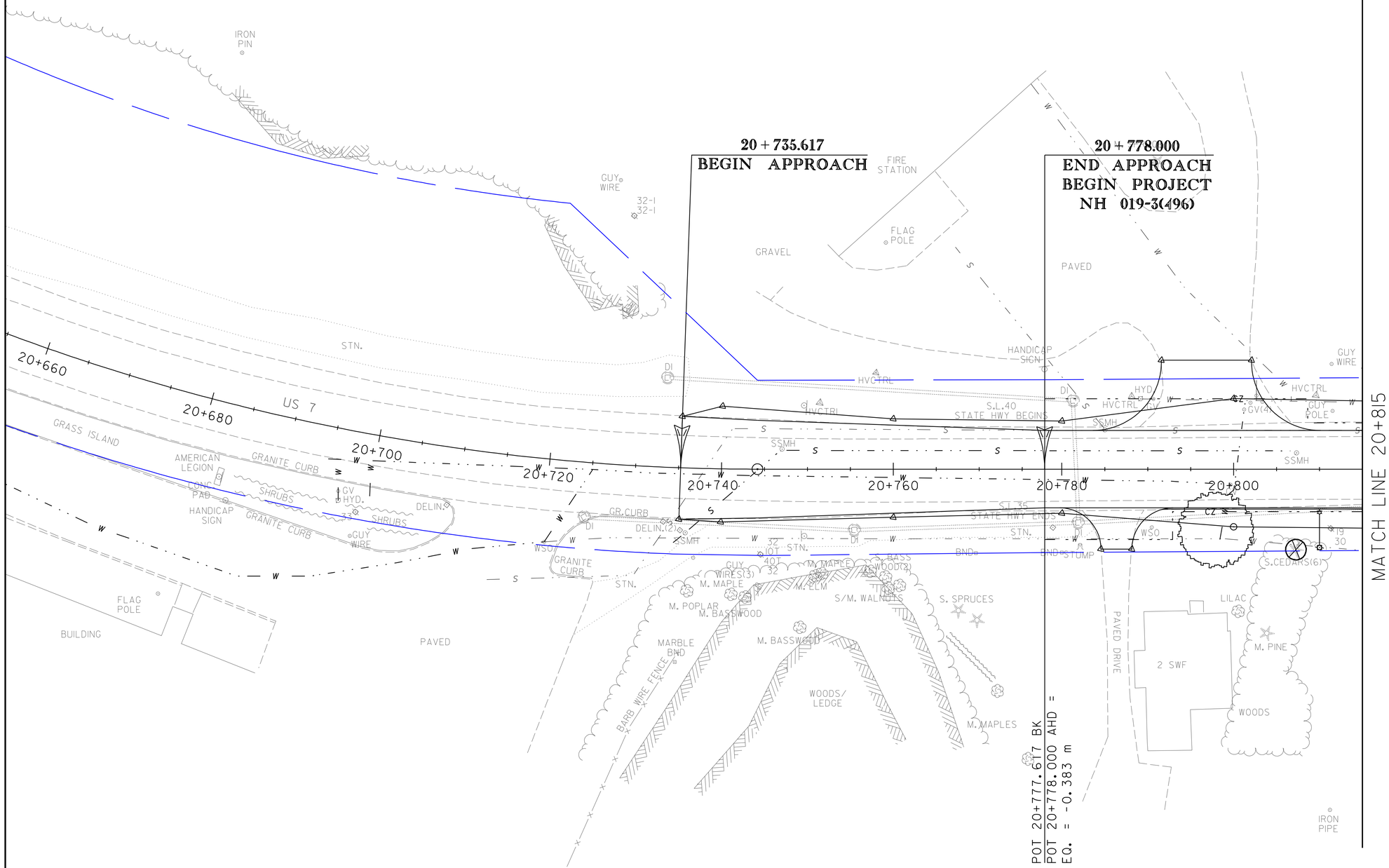
ISSUED FOR CONSTRUCTION

VAOT Metric

VT STATE PLANE GRID N

NOTES:

1. NO STRUCTURAL/SPECIAL SOIL THIS SHEET.



LEGEND
DENOTES TREES TO BE TRANSPLANTED
DENOTES TRANSPLANTED TREES
DENOTES TREES TO BE PROTECTED DURING CONSTRUCTION (SEE TREE PROTECTION DETAILS)
NEW TREES

0 10 20 30

SCALE IN METERS

STRUCTURAL/SPECIAL SOIL PLAN 1

PROJECT NAME: BRANDON
PROJECT NUMBER: NH 019-3(496)

FILE NAME: zb008s6-ldscsoil.dgn
PROJECT LEADER: C. BEAN
DESIGNED BY: M. HALEY
PLOT DATE: 2/23/2017
DRAWN BY: M. HALEY
CHECKED BY: D. MUNRO
SHEET 365 OF 601

CLD 02-0448 MODEL: 1

ISSUED FOR CONSTRUCTION

VAOT Metric

VT STATE PLANE GRID

NOTES:

1. NO STRUCTURAL/SPECIAL SOIL THIS SHEET.

MATCH LINE 20+815

MATCH LINE 20+950

BM #3
TOP OF S.E. SIGN BASE BOLT
ELEV. = 142.979 m

GARAGE
GRAVEL
CONC.
CONC.
PAVED
WOODS
M. ELM
M. ASH
26 B. ELDER
L. APPLE
26 M. MAPLE
M. ELM
M. B. ELDER
DITCH
WD. WALL
S. SPRUCES
HVCTRL
SHRUBS
GRAVEL DRIVE
S. APPLE
GAR.
PAVED DRIVE
GRAVEL
WOODS
HVCTRL
M. MAPLES
STN. WALL
L. CEDAR
1½SWF
LILAC(2)
PAVED DRIVE
1½SWF
1½SWF
1½SWF
SHRUB
WD. WALL
STN. WALL
SHRUBS
HVCTRL
FLAG POLE
HVCTRL
M.S. PUMP
SHRUBS WD
LILACS
CONC.
HVCTRL
PARTSCH PLUS
W
WSO
W
HVCTRL
CZ
CZ
CZ
S
S
S
S. CRAPPER STN.
WD. RETAINING WALL
HYD.
WSO
CZ
CZ
PAVED WALK
WSO
CZ
S SSMH
CONC. CURB
CONC. CURB
W
CONC. CURB
W
US 7

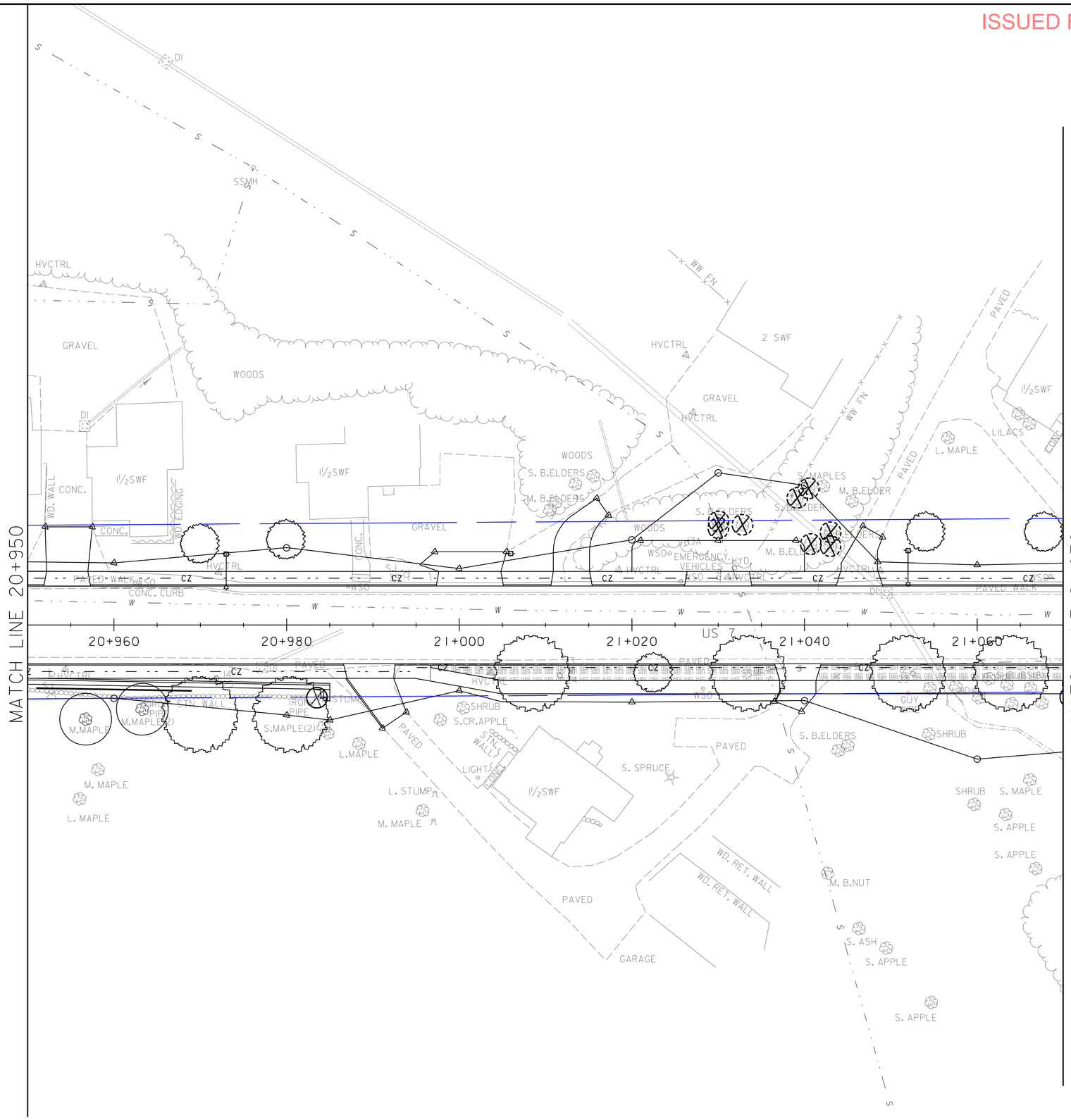
20+820 20+840 20+860 20+880 20+900 20+920 20+940

DMH
CZ
CZ
DMH
CZ
HVCTRL
HVCTRL
HVCTRL
HVCTRL
IRON PIN
W
GUY WIRE
PAVED
PAVED
PUSH POLE
PAVED
CZ
CZ
S. SPRUCE
M. APPLE
STEEL POSTS(4)
SHRUB
HVCTRL
STEEL POST
RESVD. PARKING
S.APPLE
WSO
WSO
40+020
W
W
BUILDING
FLAG POLE
CONC. PAD
CONC. PAD
PAVED
PAVED
SSMH
GUY WIRES
PIPE
CZ
40+040
PAVED
CW
HVCTRL
HVCTRL
TH-62
HIGH ST
CPEP DI
S. ASH
GRAVEL
M. MAPLE
PAVED
SHRUB
PAVED
CONC.
SHRUBS
SHRUB
CONC. PAD
L.STUMP
CONC.
2 SWF
IRON PIPE
M. MAPLE
GARDEN
40+060
W
PAVED
CZ
CZ
CZ
CZ
CZ
PAVED
CZ
CZ
CZ
CZ
CZ

ISSUED FOR CONSTRUCTION

VAOT Metric

VT STATE PLANE GRID



LANDSCAPE BACKFILL (30" [762mm])

LANDSCAPE BACKFILL (18" [457mm])

LEGEND

- DENOTES TREES TO BE TRANSPLANTED
- DENOTES TRANSPLANTED TREES
- DENOTES TREES TO BE PROTECTED DURING CONSTRUCTION (SEE TREE PROTECTION DETAILS)
- NEW TREES

0 10 20 30

SCALE IN METERS

STRUCTURAL/SPECIAL SOIL PLAN 3

PROJECT NAME: BRANDON

PROJECT NUMBER: NH 019-3(496)

FILE NAME: zb008s6-ldscsoil.dgn
PROJECT LEADER: C. BEAN
DESIGNED BY: M. HALEY

PLOT DATE: 2/23/2017
DRAWN BY: M. HALEY
CHECKED BY: D. MUNRO
SHEET 367 OF 601

CLD 02-0448 MODEL: 3

ISSUED FOR CONSTRUCTION

VAOT Metric

VT STATE PLANE GRID

N

MATCH LINE 21+070

MATCH LINE 21+210

21+080 21+100 21+120 21+140 21+160 21+180 21+200

US 7

BARN
SHRUB
CONC. PAD
FLAG POLE
M. MAPLE
S.CHERRY(2)
LILAC
PAVED DRIVE
M.APPLE
SHRUBS(3)
STONE
S.ELM
WD. FENCING
GARDEN
S.SPRUCE
I½SWF
M.PINE
GARDEN
SHRUBS(4)
3 SWF
CONC.
LIGHT
S. APPLE
GARDEN
L.MAPLE
SHRUB
LIGHT
S. SPRUCE
LIGHT
PAVED DRIVE
WW FN
MRBL CURB
S. ASH
M. APPLE
2 SWF
GRAVEL
SHRUB
S. MAPLES
LIGHT
PAVED
MRBL CURB
SHRUBS
PAVED DRIVE
MRBL STEP
HVCTRL
ROSEBELLE'S B&B
LIGHTS
HVCTRL
M. HEMLOCK
IRON PIN
HANDRAIL BND
PAVED WALK
CONC. CURB
M.MAPLE
M.MAPLE
M.MAPLE
M.MAPLE
M.MAPLE
MRBL BND
SHRUBS(2)
GUY WIRE
M.WALNUT
SHRUBS(2)
CURVE WARN.
SHRUB
M.SPRUCE(2)
GUY WIRE
HVCTRL
BND
PAVED WALKS
S.SPRUCE
PAVED WALK
HVCTRL #10
OW FENCE
IRON PIN
M.STUMP
CONC. WALK
M. STUMP
SHRUBS
LILACS
MRBL WALK
LILAC
I½SWF
GRAVEL DRIVE
BIT. CURB
PAVED
PAVED
HVCTRL
PAVED
GRAVEL DRIVE
GRAVEL DRIVE
LILAC
LILAC
WET AREA
STREAM
WOODS
I½SWF
CONC. PAD
GAR.
I½SWF
PAVED DRIVE
I½SWF
PAVED DRIVE
GARAGE
WOODS
19-1
91
2-1
M. MAPLE
M. MAPLE
HVCTRL

TRAV. PT. #2
VTGS DISK IN CONC. MON.
"GRIFFIN 1997"

LANDSCAPE BACKFILL (30" [762mm]

CU STRUCTURAL SOIL

LEGEND

- DENOTES TREES TO BE TRANSPLANTED
- DENOTES TRANSPLANTED TREES
- DENOTES TREES TO BE PROTECTED DURING CONSTRUCTION (SEE TREE PROTECTION DETAILS)
- NEW TREES

0 10 20 30

SCALE IN METERS

STRUCTURAL/SPECIAL SOIL PLAN 4

PROJECT NAME: BRANDON
PROJECT NUMBER: NH 019-3(496)

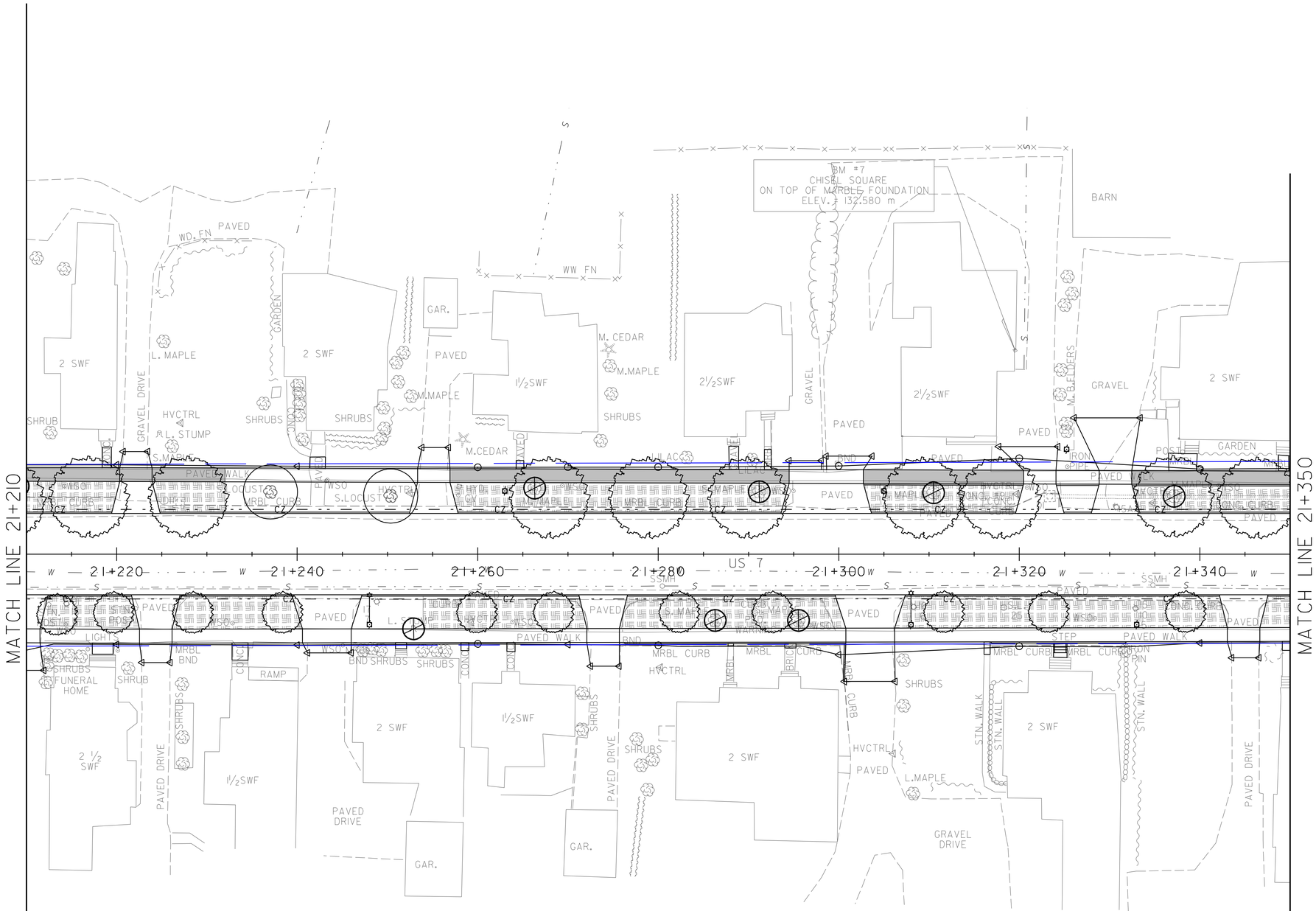
FILE NAME: zb008s6-ldscsoil.dgn
PROJECT LEADER: C. BEAN
DESIGNED BY: M. HALEY
PLOT DATE: 2/23/2017
DRAWN BY: M. HALEY
CHECKED BY: D. MUNRO
SHEET 368 OF 601

CLD 02-0448 MODEL: 4

ISSUED FOR CONSTRUCTION

VAOT Metric

VT STATE PLANE GRID N



LANDSCAPE BACKFILL (30" [762mm]

CU STRUCTURAL SOIL

LEGEND

- DENOTES TREES TO BE TRANSPLANTED
- DENOTES TRANSPLANTED TREES
- DENOTES TREES TO BE PROTECTED DURING CONSTRUCTION (SEE TREE PROTECTION DETAILS)
- NEW TREES

0 10 20 30

SCALE IN METERS

STRUCTURAL/SPECIAL SOIL PLAN 5

PROJECT NAME: BRANDON
PROJECT NUMBER: NH 019-3(496)

FILE NAME: zb008s6-ldscsoil.dgn
PROJECT LEADER: C. BEAN
DESIGNED BY: M. HALEY

PLOT DATE: 2/23/2017
DRAWN BY: M. HALEY
CHECKED BY: D. MUNRO
SHEET 369 OF 601

CLD 02-0448 MODEL: 5

ISSUED FOR CONSTRUCTION

VT STATE PLANE GRID N

VAOT Metric

MATCH LINE 21+410

MATCH LINE 21+350

MATCH LINE 36+070

M.APPLE
LILAC
GRAVEL
PAVED
GARAGE
M. SPRUCE(2)
SHRUBS
MARBLE
WD.FN
SHRUB
2½SWF
WSO
1½SWF
S.SPRUCE
S.PINE
MARBLE WALK
WD. FENCE
WW FN
CONC. WALK
21+360
21+380
21+400
US 7
2½SBF
M. MAPLE
GARAGE
B&B
2 SWF
S.CR.APPLE
CONC.
WOOD RAMP OVER STEPS
CONC.
S.CR.APPLE
M.MAPLE
L.MAPLE
STN. WALK
S.MAPLE
STN.
GARDEN
SSMH
BND
L. MAPLE
LILAC
SHRUB
MARBLE CURB
GRAVEL
CONC. WALK
SHRUBS
CONC.
LILACS
GUY WIRE
36+080
36+100
36+120
M.MAPLE
PAVED
FABER GROUP
2½SBF
S. RAIN DR.
M.STUMP
HVCTRL
M. MAPLE
BRICK WALK
S. ASH
S. SPRUCE
S. OAK
L. STUMP
JCT. US. 7
L. MAPLE
GUIDE POST
PAVED WALK
VT 73
TH-3

36 + 120.000
LIMIT OF WORK

LANDSCAPE BACKFILL (30" [762mm]

LANDSCAPE BACKFILL (18" [457mm]

CU STRUCTURAL SOIL

LEGEND

- DENOTES TREES TO BE TRANSPLANTED
- DENOTES TRANSPLANTED TREES
- DENOTES TREES TO BE PROTECTED DURING CONSTRUCTION (SEE TREE PROTECTION DETAILS)
- NEW TREES

0 10 20 30

SCALE IN METERS

STRUCTURAL/SPECIAL SOIL PLAN 6

PROJECT NAME: BRANDON
PROJECT NUMBER: NH 019-3(496)

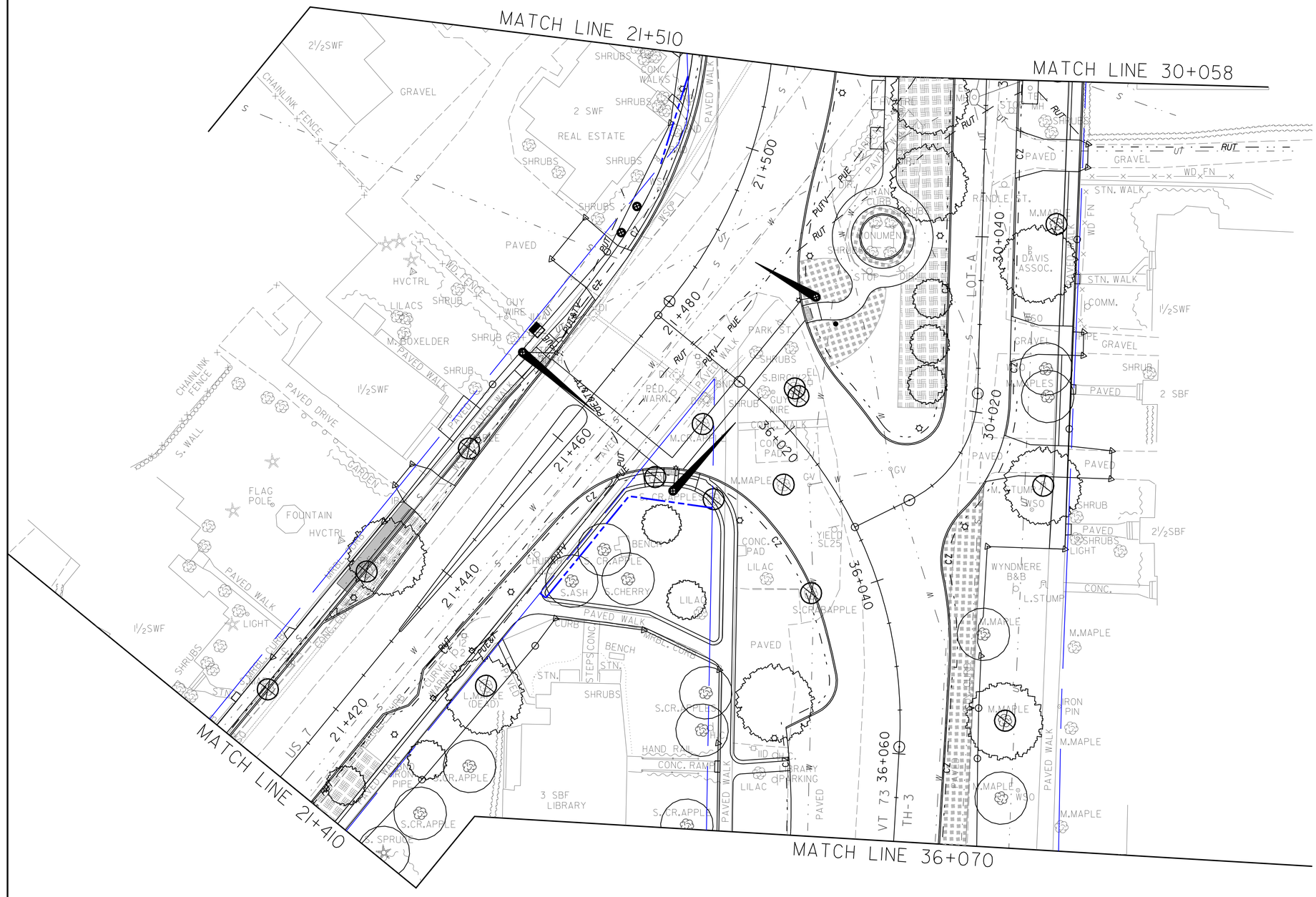
FILE NAME: zb008s6-ldscsoil.dgn
PROJECT LEADER: C. BEAN
DESIGNED BY: M. HALEY
PLOT DATE: 2/23/2017
DRAWN BY: M. HALEY
CHECKED BY: D. MUNRO
SHEET 370 OF 601

CLD 02-0448 MODEL:6

ISSUED FOR CONSTRUCTION

VAOT Metric

VT STATE PLANE GRID



LANDSCAPE BACKFILL (30" [762mm])

LANDSCAPE BACKFILL (18" [457mm])

CU STRUCTURAL SOIL

LEGEND

- DENOTES TREES TO BE TRANSPLANTED
- DENOTES TRANSPLANTED TREES
- DENOTES TREES TO BE PROTECTED DURING CONSTRUCTION (SEE TREE PROTECTION DETAILS)
- NEW TREES

0 10 20 30

SCALE IN METERS

STRUCTURAL/SPECIAL SOIL PLAN 7

PROJECT NAME: BRANDON

PROJECT NUMBER: NH 019-3(496)

FILE NAME: zb008s6-ldscsoil.dgn
PROJECT LEADER: C. BEAN
DESIGNED BY: M. HALEY

PLOT DATE: 2/23/2017
DRAWN BY: M. HALEY
CHECKED BY: D. MUNRO
SHEET 371 OF 601

CLD 02-0448 MODEL: 7

ISSUED FOR CONSTRUCTION

VAOT Metric

VT STATE PLANE GRID

N

BM #6 (STA 21+600.3 RT)
USC & GS STANDARD DISC
IN CONC MONUMENT
STAMPED BRANDON 1955
ELEV. = 131.180 m

MATCH LINE 21+615

MATCH LINE 30+149

35 + 066.000
LIMIT OF WORK

MATCH LINE 21+510

MATCH LINE 30+058

0 10 20 30
SCALE IN METERS

LANDSCAPE BACKFILL (30" [762mm])

LANDSCAPE BACKFILL (18" [457mm])

CU STRUCTURAL SOIL

LEGEND

- DENOTES TREES TO BE TRANSPLANTED
- DENOTES TRANSPLANTED TREES
- DENOTES TREES TO BE PROTECTED DURING CONSTRUCTION (SEE TREE PROTECTION DETAILS)
- NEW TREES

STRUCTURAL/SPECIAL SOIL PLAN 8

PROJECT NAME: BRANDON
PROJECT NUMBER: NH 019-3(496)

FILE NAME: zb008s6-ldscsoil.dgn
PROJECT LEADER: C. BEAN
DESIGNED BY: M. HALEY

PLOT DATE: 2/23/2017
DRAWN BY: M. HALEY
CHECKED BY: D. MUNRO
SHEET 372 OF 601

CLD 02-0448 MODEL: 8

ISSUED FOR CONSTRUCTION

VAOT Metric

VT STATE PLANE GRID N

MATCH LINE 21+735

MATCH LINE 21+615

MATCH LINE 30+149

POT 21+710.844 BK = EQ = + 0.240 AHD

POT 21+710.604 AHD

LANDSCAPE BACKFILL (30" [762mm])

LANDSCAPE BACKFILL (18" [457mm])

CU STRUCTURAL SOIL

LEGEND

- DENOTES TREES TO BE TRANSPLANTED
- DENOTES TRANSPLANTED TREES
- DENOTES TREES TO BE PROTECTED DURING CONSTRUCTION (SEE TREE PROTECTION DETAILS)
- NEW TREES

0 10 20 30

SCALE IN METERS

STRUCTURAL/SPECIAL SOIL PLAN 9

PROJECT NAME: BRANDON

PROJECT NUMBER: NH 019-3(496)

FILE NAME: zb008s6-ldscsoil.dgn
PROJECT LEADER: C. BEAN
DESIGNED BY: M. HALEY

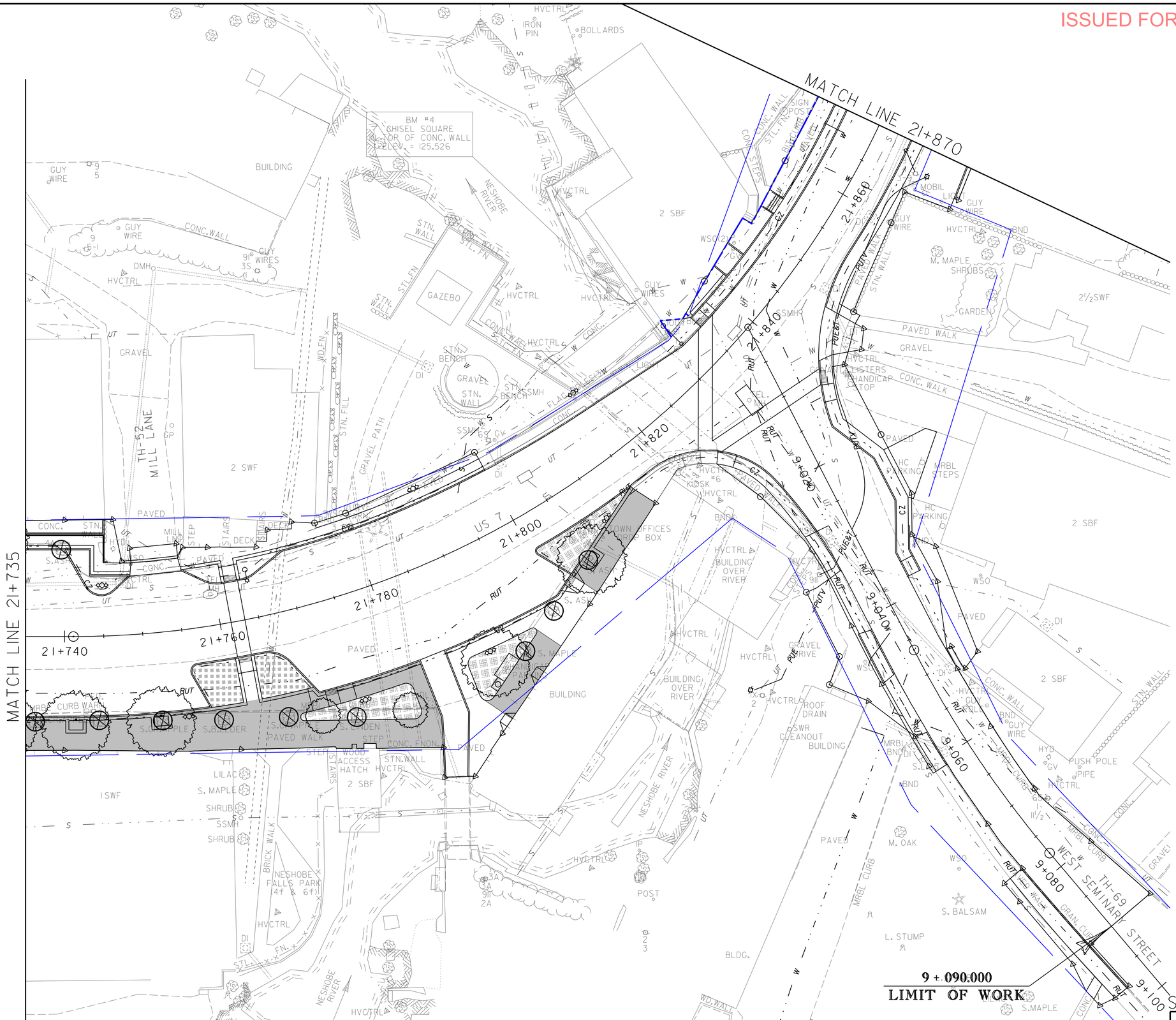
PLOT DATE: 2/23/2017
DRAWN BY: M. HALEY
CHECKED BY: D. MUNRO
SHEET 373 OF 601

CLD 02-0448 MODEL: 9

ISSUED FOR CONSTRUCTION

VAOT Metric

VT STATE PLANE GRID N



LANDSCAPE BACKFILL (30" [762mm])

LANDSCAPE BACKFILL (18" [457mm])

CU STRUCTURAL SOIL

LEGEND

- DENOTES TREES TO BE TRANSPLANTED
- DENOTES TRANSPLANTED TREES
- DENOTES TREES TO BE PROTECTED DURING CONSTRUCTION (SEE TREE PROTECTION DETAILS)
- NEW TREES

0 10 20 30

SCALE IN METERS

STRUCTURAL/SPECIAL SOIL PLAN 10

PROJECT NAME: BRANDON

PROJECT NUMBER: NH 019-3(496)

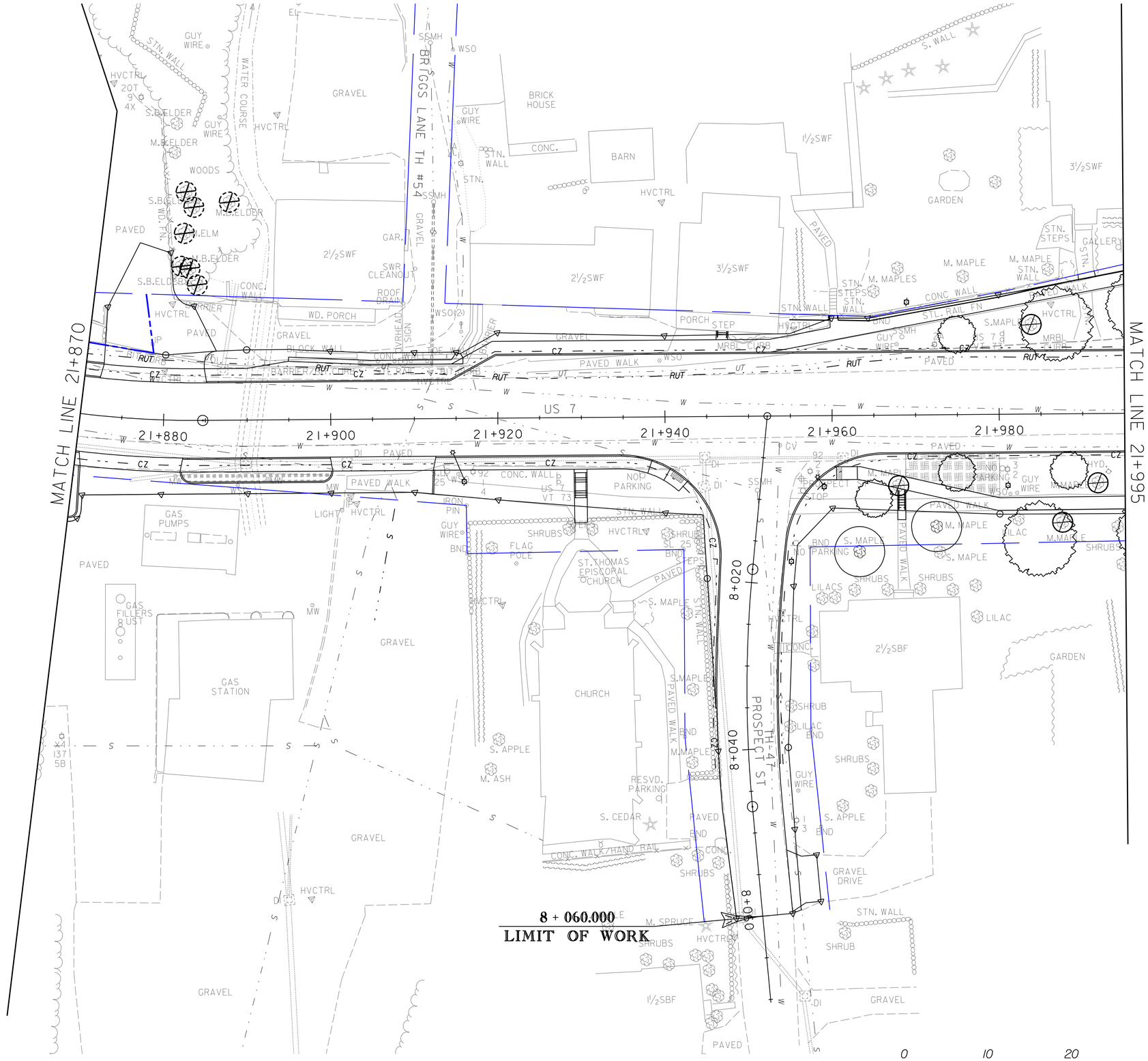
FILE NAME: zb008s6-ldscsoil.dgn
PROJECT LEADER: C. BEAN
DESIGNED BY: M. HALEY

PLOT DATE: 2/23/2017
DRAWN BY: M. HALEY
CHECKED BY: D. MUNRO
SHEET 374 OF 601

CLD 02-0448 MODEL: 10

ISSUED FOR CONSTRUCTION

VAOT Metric



LANDSCAPE BACKFILL (30" [762mm])

LANDSCAPE BACKFILL (18" [457mm])

LEGEND

- DENOTES TREES TO BE TRANSPLANTED
- DENOTES TRANSPLANTED TREES
- DENOTES TREES TO BE PROTECTED DURING CONSTRUCTION (SEE TREE PROTECTION DETAILS)
- NEW TREES

0 10 20 30

SCALE IN METERS

STRUCTURAL/SPECIAL SOIL PLAN II

PROJECT NAME: BRANDON

PROJECT NUMBER: NH 019-3(496)

FILE NAME: zb008s6-ldscsoil.dgn
PROJECT LEADER: C. BEAN
DESIGNED BY: M. HALEY

PLOT DATE: 2/23/2017
DRAWN BY: M. HALEY
CHECKED BY: D. MUNRO
SHEET 375 OF 601

CLD 02-0448 MODEL: II

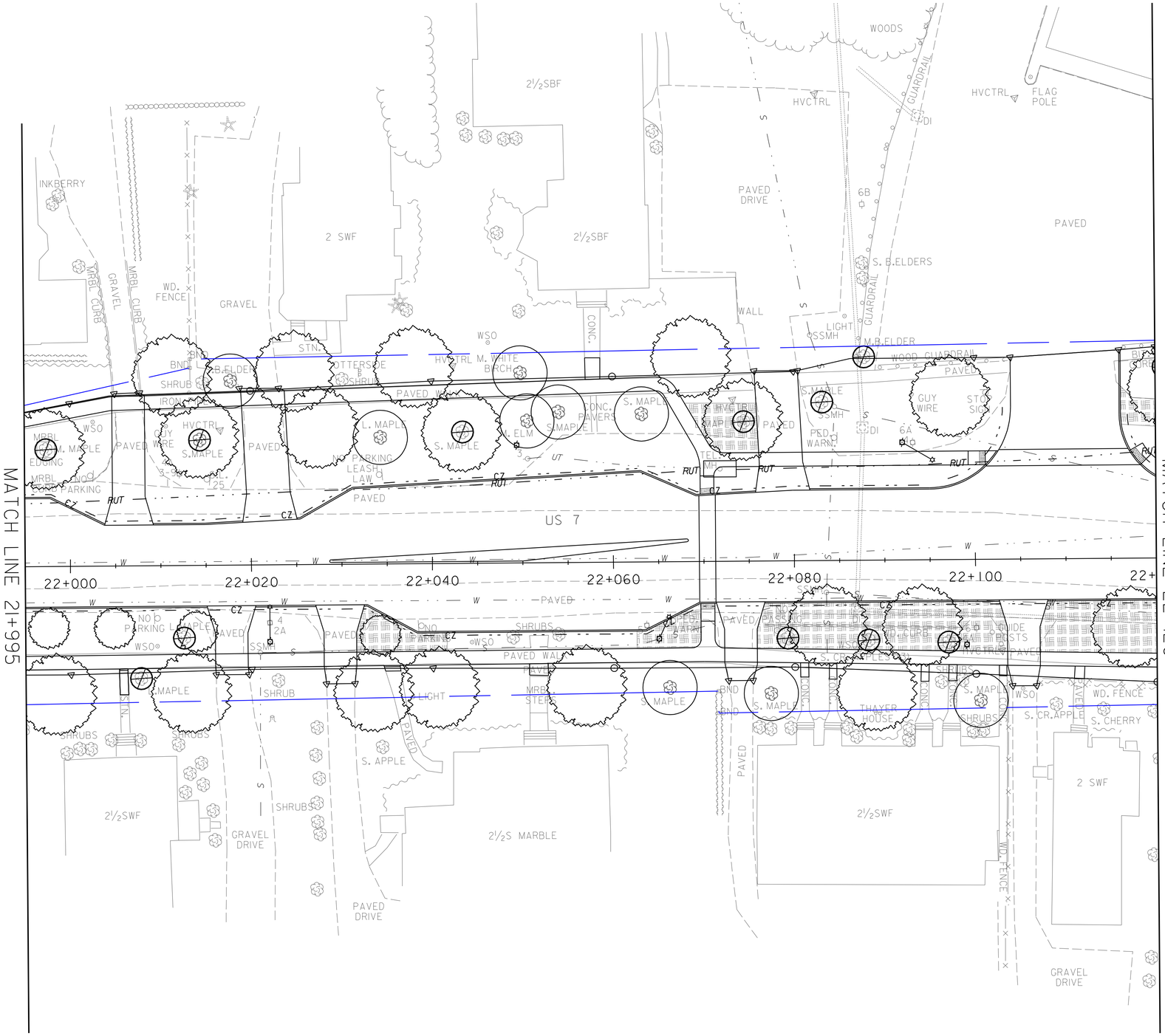
ISSUED FOR CONSTRUCTION

VT STATE PLANE GRID

N

MATCH LINE 21+995

MATCH LINE 22+120



LANDSCAPE BACKFILL (30" [762mm])

LEGEND

- DENOTES TREES TO BE TRANSPLANTED
- DENOTES TRANSPLANTED TREES
- DENOTES TREES TO BE PROTECTED DURING CONSTRUCTION (SEE TREE PROTECTION DETAILS)
- NEW TREES

0 10 20 30

SCALE IN METERS

STRUCTURAL/SPECIAL SOIL PLAN 12

PROJECT NAME: BRANDON
PROJECT NUMBER: NH 019-3(496)

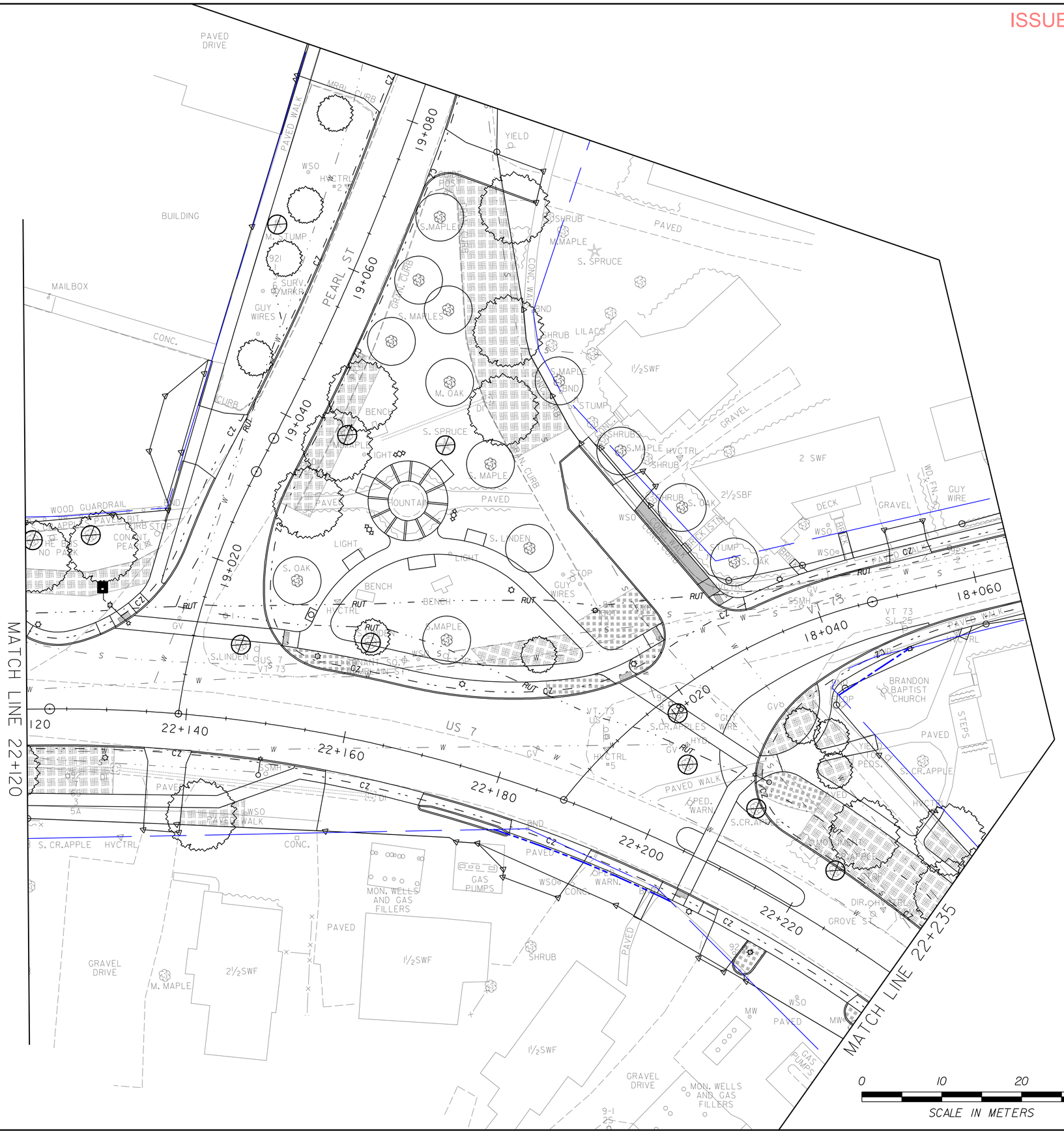
FILE NAME: zb008s6-ldscsoil.dgn
PROJECT LEADER: C. BEAN
DESIGNED BY: M. HALEY

PLOT DATE: 2/23/2017
DRAWN BY: M. HALEY
CHECKED BY: D. MUNRO
SHEET 376 OF 601

CLD 02-0448 MODEL: 12

ISSUED FOR CONSTRUCTION

VAOT Metric



LANDSCAPE BACKFILL (30" [762mm])

LANDSCAPE BACKFILL (18" [457mm])

CU STRUCTURAL SOIL

LEGEND

- DENOTES TREES TO BE TRANSPLANTED
- DENOTES TRANSPLANTED TREES
- DENOTES TREES TO BE PROTECTED DURING CONSTRUCTION (SEE TREE PROTECTION DETAILS)
- NEW TREES

0 10 20 30

SCALE IN METERS

STRUCTURAL/SPECIAL SOIL PLAN 13

PROJECT NAME: BRANDON
PROJECT NUMBER: NH 019-3(496)

FILE NAME: zb008s6-ldscsoil.dgn
PROJECT LEADER: C. BEAN
DESIGNED BY: M. HALEY

PLOT DATE: 2/23/2017
DRAWN BY: M. HALEY
CHECKED BY: D. MUNRO
SHEET 377 OF 601

CLD 02-0448 MODEL: 13

ISSUED FOR CONSTRUCTION

VAOT Metric

VT STATE PLANE GRID N

MATCH LINE 22+235

MATCH LINE 22+365

US 7

22+240 22+260 22+280 22+300 22+320 22+340 22+360

M. OAK
M. MAPLE
M. MAPLE
1½SWF
GRAVEL
STN. EDGING
CHAIN LINK FN
1½SBF
S.CEDARS
GRAVEL DRIVE
1½SWF
GRAVEL DRIVE
WD.RAMP
1½SWF
CONC. DRIVE
CONC. DRIVE
S. CHERRY
2 ½SWF
GRAVEL DRIVE
2 SWF
HIST. MARK
MUSEUM
LILACS
WD RAMP
S. STUMP
S.SPRUCE
LILAC
STN. PATIO
STN. BLOCK
GUY WIRE
MRBL. STEPS
S. MAPLE
M. MAPLE
S.L.25
S. MAPLE
M.B.ELDER
M. MAPLE
PAVED WALK
GRAVEL
VT 73
PAVED WALK
CONC. POST
MAPLE 10A
SSS
DOUBLE
RUT
CZ
W
S
WSO
DI
IP
HVCTRL
GRASS
PAVED
GRAVEL
3
10
DIRTY WORKS LAUNDRY
CONC.
GUIDE POST
HYDR
PUSH
POLE
M. STUMP
SHRUB
M.MAPLE
M. STUMP
L. MAPLE
MRBL. BM
PAVED WALK
STN. WALL
LILAC
1½SWF
GRAVEL
GRAVEL
GRAVEL
PAVED
GULF
GRASS
WD FN
GRAVEL
GRASS
BRANDON LUMBER
100 PVC ROOF DRAIN
PAVED
CONC.
LAUNDROMAT
PAVED
GAS STATION / STORE
UA
GUY WIRE
GAS FILLER
DI

CU STRUCTURAL SOIL

LANDSCAPE BACKFILL (30" [762mm])

LANDSCAPE BACKFILL (18" [457mm])

LEGEND

- DENOTES TREES TO BE TRANSPLANTED
- DENOTES TRANSPLANTED TREES
- DENOTES TREES TO BE PROTECTED DURING CONSTRUCTION (SEE TREE PROTECTION DETAILS)
- NEW TREES

0 10 20 30

SCALE IN METERS

STRUCTURAL/SPECIAL SOIL PLAN 14

PROJECT NAME: BRANDON
PROJECT NUMBER: NH 019-3(496)

FILE NAME: zb008s6-ldscsoil.dgn
PROJECT LEADER: C. BEAN
DESIGNED BY: M. HALEY

PLOT DATE: 2/23/2017
DRAWN BY: M. HALEY
CHECKED BY: D. MUNRO
SHEET 378 OF 601

CLD 02-0448 MODEL: 14

ISSUED FOR CONSTRUCTION

VAOT Metric

VT STATE PLANE GRID N

BM #2 CHS. SQ.
TOP SW COR. CONC. STEPS
EL.= 125.872 m

MATCH LINE 22+365

MATCH LINE 22+520

US 7

22+380 22+400 22+420 22+440 22+460 22+480 22+500

2 SWF
2½SWF
1½SWF
GRAVEL
PAVED
S. SPRUCE
S. MAPLE
S.B.ELDERS
STN. WALL
MCDONALDS
LIGHT
PAVED WALK
IRON PIN
HVCTRL #4
M.STUMP
HYD.
S.B.ELDER
GUY WIRE
GUY POLE
PED
WARNING
WD. FN.
CONC. CURB
DO NOT ENTER
THANK YOU
F. POLE
HVCTRL
RUT
CZ
WSO
GV
GUIDE POST
PUSH
S POLE
SSMH
B&B
S. INKBERRY
MRBL. WALL
MRBL. CURB
S.CR.APPLE
M.MAPLES
S. ELM
WOODS
B. WIRE FENCE
L. MAPLE
M. MAPLE
S.OLDAR
S. HEMLOCK
S. CEDARS
GARDEN
SHRUB
LIGHTS

LANDSCAPE BACKFILL (30" [762mm]

LEGEND

- DENOTES TREES TO BE TRANSPLANTED
- DENOTES TRANSPLANTED TREES
- DENOTES TREES TO BE PROTECTED DURING CONSTRUCTION (SEE TREE PROTECTION DETAILS)
- NEW TREES

0 10 20 30
SCALE IN METERS

STRUCTURAL/SPECIAL SOIL PLAN 15

PROJECT NAME: BRANDON
PROJECT NUMBER: NH 019-3(496)

FILE NAME: zb008s6-ldscsoil.dgn
PROJECT LEADER: C. BEAN
DESIGNED BY: M. HALEY
PLOT DATE: 2/23/2017
DRAWN BY: M. HALEY
CHECKED BY: D. MUNRO
SHEET 379 OF 601

CLD 02-0448 MODEL: I5

ISSUED FOR CONSTRUCTION

VAOT Metric

VT STATE PLANE GRID N

NOTES:

1. NO STRUCTURAL/SPECIAL SOIL THIS SHEET.

22 + 630.000
END PROJECT
NH 019-3(496)
BEGIN APPROACH

22 + 680.000
END APPROACH

MATCH LINE 22+520

GAS PUMPS
CONC.
PAVED
CONC. CURB
MON. WELLS AND GAS FILLERS
BND
SHELL MCDONALDS
VENT
LIGHT
CONC. CURB
S.L. 35
HVCTRL
DRIVE
LIGHT
PAVED
SHRUB
GRAVEL
CONC
BRANDON AUTO SALES
WSO
CONC
PAVED
W. WIRE FENCE
BND
PAVED
US 7
HVCTRL
PIN
GV
GV
TIC
CZ
W
UT
RHT

22+520 22+540 22+560 22+580 22+600 22+620 22+640 22+660 22+680 22+700

CONC. CURB
CONC. CURB
PAVED WALK
PAVED
WD. FENCE
SHRUB
S. LOCUST
S. LOCUST
BND
GRAVEL
2½SWF
GUY WIRE
SE 40
THROUGH WAY BEGINS HERE
HVCTRL #3
DITCH
DITCH
CHAIN LINK FENCE
ABANDONED QUARRY
GUY WIRE
GUY WIRE
GUY WIRE
3 MAPLES
S.MAPLE
M.MAPLE
M.MAPLE
WOODS
3 MAPLES
M. MAPLE
S.BASSWD
M. MAPLE
LEDGE
LEDGE
LEDGE

BM #1 CHS. SQ.
IN LEDGE
EL.= 120.49 m

LEGEND

- DENOTES TREES TO BE TRANSPLANTED
- DENOTES TRANSPLANTED TREES
- DENOTES TREES TO BE PROTECTED DURING CONSTRUCTION (SEE TREE PROTECTION DETAILS)
- NEW TREES

0 10 20 30
SCALE IN METERS

STRUCTURAL/SPECIAL SOIL PLAN 16

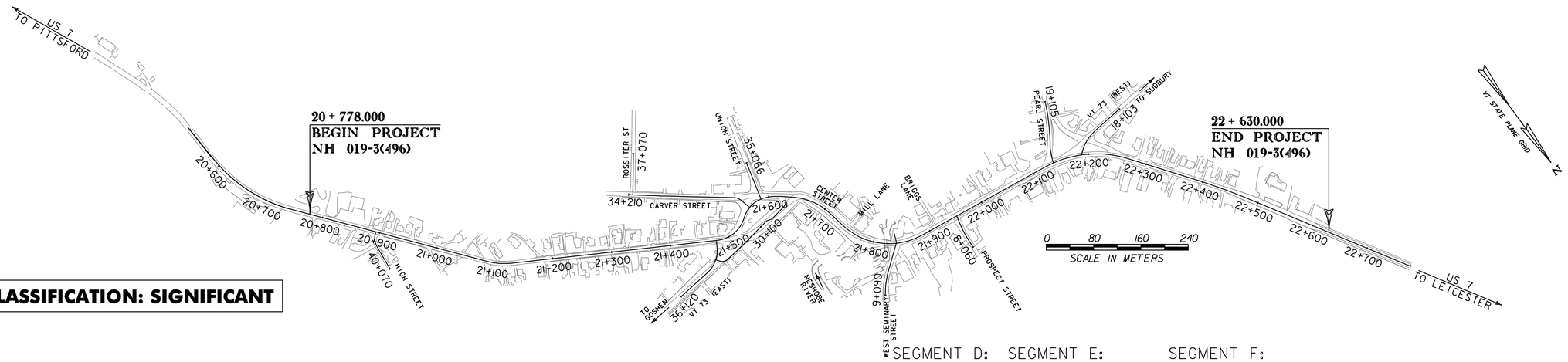
PROJECT NAME: BRANDON
PROJECT NUMBER: NH 019-3(496)

FILE NAME: zb008s6-ldscsoil.dgn
PROJECT LEADER: C. BEAN
DESIGNED BY: M. HALEY
PLOT DATE: 2/23/2017
DRAWN BY: M. HALEY
CHECKED BY: D. MUNRO
SHEET 380 OF 601

CLD 02-0448 MODEL: 16

ISSUED FOR CONSTRUCTION

VAOT Metric



PROJECT CLASSIFICATION: SIGNIFICANT

TRAFFIC PATTERN DURING PHASED CONSTRUCTION:

SEGMENT A:
20+752 TO 21+460
ALTERNATING ONE-WAY

SEGMENT B: 21+460 TO 21+630
ALTERNATING ONE-WAY
(21+460 - 21+520)
TWO-WAY (21+520 - 21+630)

SEGMENT C: 21+630 TO 21+805
ALTERNATING ONE-WAY
NIGHT-TIME CONSTRUCTION

BRIDGE 114
SEGMENT

SEGMENT D:
21+840 TO
22+050
ALTERNATING
ONE-WAY

SEGMENT E:
22+050 TO
22+220
TWO-WAY

SEGMENT F:
22+220 TO
22+656
ALTERNATING
ONE-WAY

TRAFFIC CONTROL GENERAL NOTES

1. TRAFFIC CONTROL LANE MARKINGS, DEVICES, AND SIGNING SHALL CONFORM TO MUTCD AND THE STATE OF VERMONT STANDARDS. THE CONTRACTOR SHALL BE REQUIRED TO REMOVE/MODIFY ALL EXISTING PAVEMENT MARKINGS AND/OR SIGNING THAT CONFLICT WITH THE TRAFFIC CONTROL.

2. THE CONTRACTOR SHALL MAINTAIN A SAFE ACCESS AT ALL TIMES TO ALL PROPERTIES AND INTERSECTING SIDE ROADS DURING THE CONSTRUCTION OF THIS PROJECT.

3. DURING ALTERNATING ONE-WAY TRAFFIC PATTERNS, CONSTRUCTION WORK ZONE LENGTH SHALL BE LIMITED TO MINIMIZE TRAFFIC QUEUES. A REDUCTION FROM THE MAXIMUM ALLOWABLE LENGTH OF 305 m (1000 FT) MAY BE REQUIRED DURING CONSTRUCTION OF HEAVILY TRAFFICKED SECTIONS OR DURING PEAK TRAFFIC TIMES TO MAINTAIN DELAYS BELOW THE MAXIMUM ALLOWABLE CONSTRUCTION-RELATED DELAY OF 10 MINUTES FOR THE TRAVELING PUBLIC, PER SUBSECTION 104.04(b) OF THE SPECIFICATIONS. THE CONTRACTOR SHALL RETURN THE ROADWAY TO TWO-WAY TRAFFIC AT THE END OF EACH DAY, EXCEPT FOR SEGMENT C, NIGHT-TIME CONSTRUCTION. FOR SEGMENT C, TWO-WAY TRAFFIC AND PARKING SHALL BE RESTORED PRIOR TO 6AM, UNLESS OTHERWISE DIRECTED BY THE ENGINEER.

4. THIS PROJECT WILL EXTEND OVER MULTIPLE CONSTRUCTION SEASONS. PRIOR TO WINTER SHUTDOWN, THE CONTRACTOR SHALL STABILIZE THE ROADWAY AND SIDE SLOPES, AND PROVIDE FOR SAFE PASSAGE OF TRAFFIC, AS OUTLINED IN SUBSECTION 104.04 OF THE SPECIFICATION.

5. EXISTING COBRAHEAD STREET LIGHTS ARE PRESENT ON UTILITY POLES THAT ARE PROPOSED FOR REMOVAL IN THE AREAS OF UNDERGROUNDING OF OVERHEAD UTILITIES (21+400 - 21+870). CONTRACTOR SHALL RELOCATE EXISTING STREET LIGHTING OR ERECT TEMPORARY STREET LIGHTING TO MEET OR EXCEED EXISTING ILLUMINATION LEVELS UNTIL THE NEW STREET LIGHTING SYSTEM IS OPERATIONAL. SEE SPECIAL PROVISION FOR TEMPORARY LIGHTING.

6. CONTRACTOR SHALL UPDATE AND MAINTAIN PROJECT TRAFFIC MANAGEMENT PLAN (TMP) AND CPM SCHEDULE TO COORDINATE WITH CONTRACTOR'S PROPOSED TRAFFIC MANAGEMENT STRATEGIES IN ACCORDANCE WITH PROJECT REQUIREMENTS.

7. TRAFFIC CONTROL REQUIREMENTS FOR NIGHTWORK SHALL CONFORM TO MUTCD REQUIREMENTS, SECTION 6G.19, TEMPORARY TRAFFIC CONTROL DURING NIGHTTIME HOURS, TO PROVIDE TEMPORARY LIGHTING, ENHANCED AND ADDITIONAL TRAFFIC CONTROL DEVICES, AND INCREASED PROTECTION FOR WORKERS AND THE TRAVELING PUBLIC. LIGHTING SHALL BE DOWNCAST AND ONLY USED IN THE SPECIFIC AREA OF CONSTRUCTION.

CONSTRUCTION SEQUENCING NOTES

DIVIDE ROADWAY INTO SEGMENTS AS SHOWN ABOVE.

ASSUMED ORDER OF CONSTRUCTION:
1. SEGMENT B AND INSTALLATION OF UTILITIES ON WEST SEMINARY STREET (SEGMENT D).
2. BRIDGE 114 SEGMENT
3. SEGMENT C.
4. SEGMENT D.
5. SEGMENT A.
6. SEGMENT E.
7. SEGMENT F.

SEQUENCING FOR EACH SEGMENT:
1. INSTALL CONSTRUCTION SIGNING AND EROSION CONTROL MEASURES.
2. REMOVE TREES/CLEARING. SEE SPECIAL PROVISIONS FOR TIMING RESTRICTIONS.
3. UTILITY POLE RELOCATION.
4. SPECIAL CONSIDERATION MUST BE GIVEN TO THE FOLLOWING CONSTRUCTION ACTIVITIES WHICH MAY NEED TO BE PERFORMED PRIOR TO PHASE I CONSTRUCTION:
   - •REMOVAL OF EXISTING PORTLAND CEMENT CONCRETE ROADBED.
   - •INSTALLATION OF PROPOSED SEWER MAINS, WATER MAINS, AND STORM DRAINAGE, WITH DEEPEST UTILITIES INSTALLED FIRST AS DEPICTED ON THE FOLLOWING UTILITY PHASE TRAFFIC CONTROL PLANS.
   - •INSTALLATION OF DUCTBANK, VAULTS, AND OTHER APPURTENANCES REQUIRED FOR NEW UNDERGROUND UTILITIES IN SEGMENTS B AND D (SEE SEQUENCING REMARKS).
5. MAINTAIN TRAFFIC ON EXISTING ROADWAY AND PERFORM PHASE I TEMPORARY WIDENING, INCLUDING TEMPORARY DRIVE CONSTRUCTION, AS NEEDED. DIRECT TRAFFIC TO THE PHASE I WIDENED AREAS.
6. PERFORM PHASE I CONSTRUCTION AND PHASE II TEMPORARY WIDENING INCLUDING TEMPORARY DRIVE CONSTRUCTION, AS NEEDED. PAVE PHASE I CONSTRUCTION AREA (BASE COURSE).
7. TEMPORARY ADJUSTMENTS TO GATE VALVES AND CATCH BASIN AND MANHOLE RIM ELEVATIONS WILL BE NECESSARY TO ACCOMMODATE PHASE II TRAFFIC. DIRECT TRAFFIC TO PHASE I CONSTRUCTED ROADWAY AND PHASE II WIDENED AREA, REMOVE PHASE I TEMPORARY WIDENING, PERFORM PHASE II CONSTRUCTION AND PAVE PHASE II CONSTRUCTION AREA (BASE COURSE).
8. PERFORM PHASE III CONSTRUCTION. PHASE III CONSTRUCTION CONSISTS OF REMOVING PHASE II TEMPORARY WIDENING, ADJUSTING RIM ELEVATIONS, INSTALLING/ADJUSTING REMAINING INCIDENTALS SUCH AS CURB, SIDEWALK, SIGNS, AND LANDSCAPING THAT WERE NOT INSTALLED DURING PREVIOUS PHASES, FINAL PAVING AND APPLICATION OF FINAL PAVEMENT MARKINGS.
9. TWO LANES OF TRAFFIC SHOULD BE MAINTAINED DURING PHASE III CONSTRUCTION AT ALL TIMES POSSIBLE. ALTERNATING ONE-WAY TRAFFIC MEETING REQUIREMENTS SET FORTH HEREIN WILL BE ALLOWED WITH THE APPROVAL OF THE ENGINEER. CONTRACTOR'S TRAFFIC CONTROL PLAN SHOULD SPECIFY AREAS OF PHASE III CONSTRUCTION WHERE ALTERNATING ONE-WAY TRAFFIC WILL BE REQUIRED.

SEQUENCING REMARKS:
1. LENGTH OF CONSTRUCTION ZONES WITHIN EACH SEGMENT WILL BE LIMITED DUE TO TRAFFIC QUEUES, THE NEED TO HAVE TWO LANES OPEN AT NIGHT FOR ALL SEGMENTS EXCEPT SEGMENT C (WHICH SHALL HAVE TWO LANES AND PARKING OPEN DURING DAYTIME HOURS 6AM-8PM), AND THE LIMITATION OF DRIVEWAY CLOSURE TIMES. THE OPEN TRAFFIC LANE(S) IN THE CONSTRUCTION ZONE MAY CONSIST OF GRAVEL UNTIL A LARGE ENOUGH AREA IS COMPLETED TO ALLOW FOR PAVING OPERATIONS.
2. TEMPORARY BYPASS UTILITIES OR TEMPORARY MODIFICATIONS TO THE EXISTING SYSTEMS MAY BE NECESSARY TO ACCOMMODATE THE INSTALLATION OF DRAINAGE STRUCTURES AND WATER/SEWER SERVICE CONNECTIONS DURING CONSTRUCTION.
3. TO ACCOMMODATE DOWNTOWN PARKING NEEDS, PHASE I AND PHASE II CONSTRUCTION FOR SEGMENT B (LOT-A/BRANDON GREEN) SHALL BE COMPLETED PRIOR TO PHASE I AND PHASE II CONSTRUCTION ON SEGMENT C (CENTER STREET). SEGMENT C SHALL BE CONSTRUCTED AT NIGHT. TWO LANES OF TRAFFIC AND ON-STREET PARKING ON BOTH SIDES OF THE STREET SHALL BE RESTORED EACH MORNING.
4. CONTRACTOR SHALL CONSIDER THE FOLLOWING AS AN INITIAL CONSTRUCTION ACTIVITY: SEWER, WATER, DRAINAGE, AND UNDERGROUND ELECTRIC AND COMMUNICATION INFRASTRUCTURE INCLUDING DUCTBANKS, VAULTS, AND OTHER APPURTENANCES REQUIRED FOR RELOCATING AERIAL UTILITIES UNDERGROUND IN SEGMENTS B AND D. COMPLETION OF THIS WORK IS NECESSARY FOR UTILITY COMPANIES TO RELOCATE THEIR UTILITIES UNDERGROUND AND REMOVE UTILITY POLES IN ADVANCE OF ROADWAY CONSTRUCTION.

TRAFFIC CONTROL - NOTES

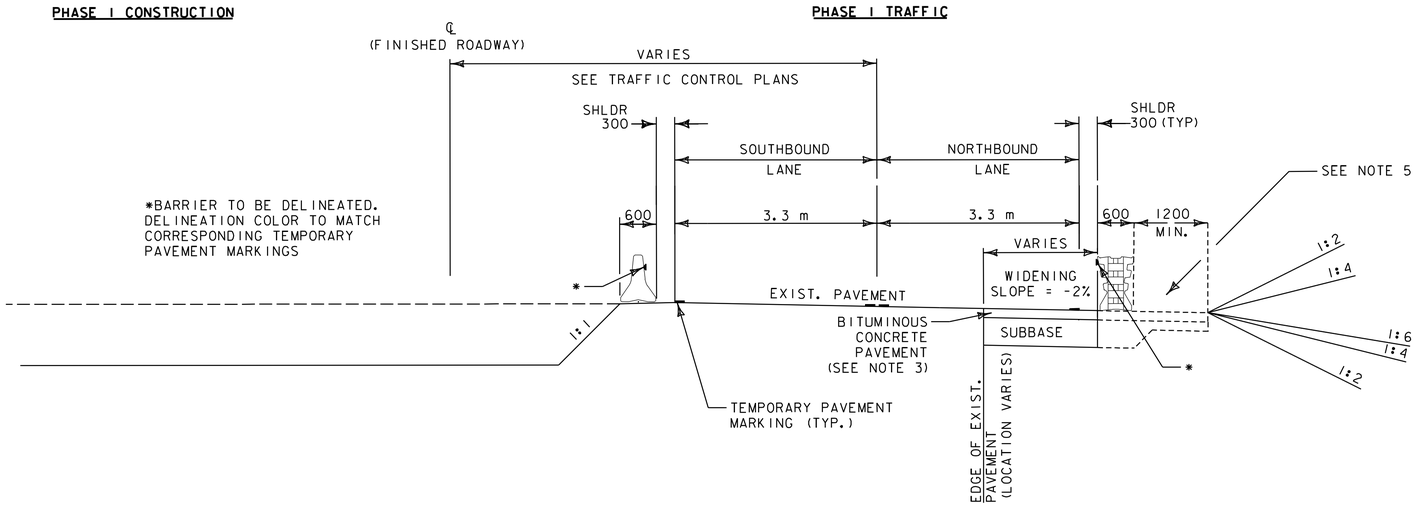
PROJECT NAME: BRANDON
PROJECT NUMBER: NH 019-3(496)

FILE NAME: zb008s6-tcpnotes.dgn
PROJECT LEADER: C. BEAN
DESIGNED BY: J. FOWLER
PLOT DATE: 2/23/2017
DRAWN BY: J. FOWLER
CHECKED BY: J.FRYER
SHEET 381 OF 601

CLD 02-0448 MODEL: I

ISSUED FOR CONSTRUCTION

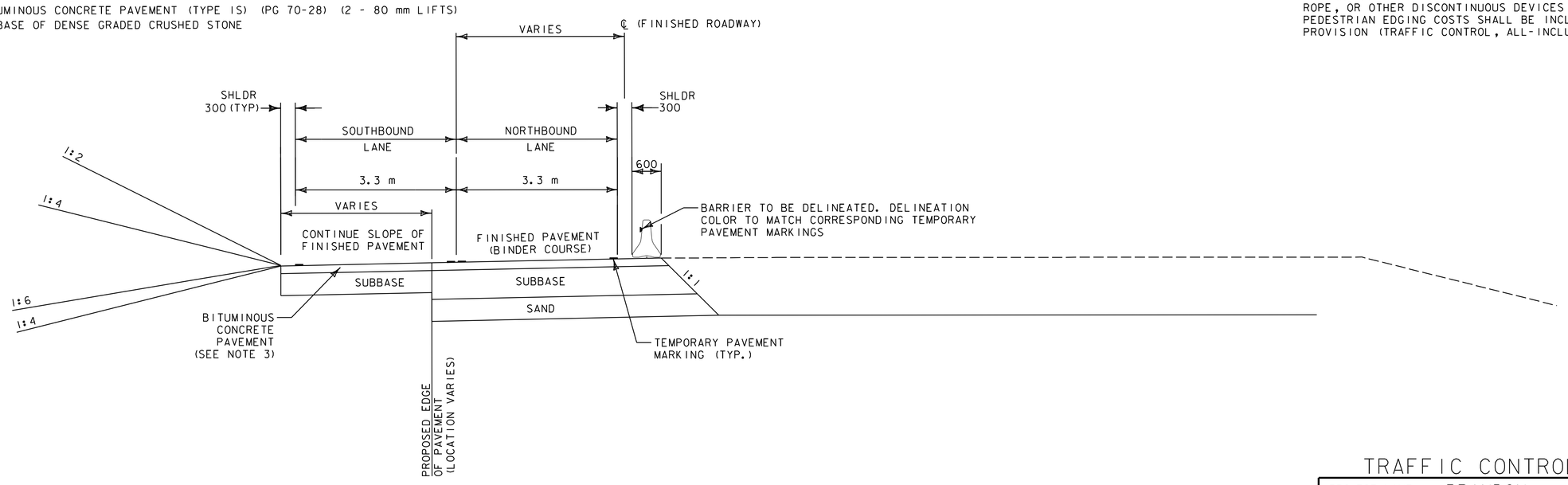
FOR TEMPORARY WIDENING:
160 BITUMINOUS CONCRETE PAVEMENT (TYPE I) (PG 58-28) (2 - 80 mm LIFTS)
450 SUBBASE OF DENSE GRADED CRUSHED STONE



TWO-WAY TRAFFIC: PHASE I

NOT TO SCALE

FOR TEMPORARY WIDENING:
160 BITUMINOUS CONCRETE PAVEMENT (TYPE IS) (PG 70-28) (2 - 80 mm LIFTS)
450 SUBBASE OF DENSE GRADED CRUSHED STONE



TWO-WAY TRAFFIC: PHASE II

NOT TO SCALE

NOTES:
1. DETAILS DEPICT PHASE I TRAFFIC SHIFTED RIGHT AND PHASE II TRAFFIC SHIFTED LEFT. PHASE I AND PHASE II TRAFFIC MAY BE SHIFTED LEFT OR RIGHT DEPENDING ON LOCATION AS SHOWN ON THE PLANS.

2. PLANS AND CROSS SECTIONS DEPICT PHASE I TRAFFIC ON EXISTING PAVEMENT WITH TEMPORARY WIDENING WHEN NECESSARY, AND PHASE 2 TRAFFIC ON BINDER COURSE WITH TEMPORARY WIDENING WHEN NECESSARY. CONTRACTOR MAY PROPOSE TO TEMPORARILY USE CENTERLINE REFLECTORIZED DRUMS BETWEEN OPPOSITE TRAVEL LANES IN AREAS WHERE THE GRADE DIFFERENCE BETWEEN PHASE I AND ULTIMATE GRADE IS SIGNIFICANT DUE TO ROADWAY PROFILE CHANGE UNTIL BOTH PHASES OF CONSTRUCTION ARE COMPLETE.

3. ALL TEMPORARY WIDENING AND ROADWAY SUBBASE IN PLACE LONGER THAN 3 DAYS OR OVER WEEKEND SHALL BE PAVED. SHORT-TERM WIDENING USED AS THE ROLLING CONSTRUCTION PROGRESSES DOES NOT NEED TO BE PAVED BUT SHALL BE RESTORED/SEEDED WHEN NO LONGER REQUIRED OR AS DIRECTED BY THE ENGINEER.

4. THE TRAFFIC CONTROL PLANS DO NOT DEPICT ADDITIONAL CONSTRUCTION ACTIVITIES, SUCH AS REMOVAL OF EXISTING CONCRETE ROAD BED, REMOVAL OF TEMPORARY WIDENING, INSTALLATION AND REMOVAL OF TEMPORARY DRAINAGE STRUCTURES AND FINAL PAVING NECESSARY UPON COMPLETION OF THE PHASE II CONSTRUCTION. WHENEVER POSSIBLE, TWO-WAY TRAFFIC SHALL BE MAINTAINED DURING THESE ACTIVITIES, UNLESS OTHERWISE DIRECTED BY THE ENGINEER. THE CONTRACTOR SHALL PROVIDE SITE-SPECIFIC TRAFFIC CONTROL PLAN TO ADDRESS THESE FEATURES.

5. PROVIDE 1.2m MIN. TEMPORARY PEDESTRIAN ACCESS ROUTE WITH TL-2 APPROVED WATER FILLED BARRIERS BETWEEN TRAFFIC AND TPAR AT LOCATIONS DEPICTED ON THE PLANS AND CROSS SECTIONS. PROVIDE 1.5m X 1.5m PASSING SPACE EVERY 60m WHEN TPAR IS LESS THAN 1.5m WIDE. BARRIER SHALL MEET MUTCD REQUIREMENTS FOR PEDESTRIAN CHANNELIZING DEVICES.

6. TPAR SHALL INCLUDE A CONTINUOUSLY DETECTABLE EDGING FOR PEDESTRIANS WITH VISUAL DISABILITIES SUCH THAT IT CAN BE FOLLOWED USING A LONG CANE FOR GUIDANCE. EDGING SHALL BE CONTINUOUS THROUGHOUT THE LENGTH OF THE FACILITY EXCEPT FOR GAPS AT LOCATIONS WHERE PEDESTRIANS OR VEHICLES WILL BE TURNING OR CROSSING. EDGING SHALL PROTRUDE AT LEAST 6 INCHES ABOVE THE SURFACE OF THE SIDEWALK OR PATHWAY, WITH THE BOTTOM OF THE EDGING A MAXIMUM OF 2.5 INCHES ABOVE THE SURFACE. EDGING SHALL CONSIST OF PREFABRICATED OR FORMED-IN-PLACE CURBING OR OTHER CONTINUOUS DEVICE THAT IS PLACED ALONG THE EDGE OF THE WALKWAY, AND FIRMLY ATTACHED TO THE GROUND OR TO OTHER DEVICES SO THAT EDGING CANNOT BE DISPLACED BY PEDESTRIAN OR VEHICULAR TRAFFIC OR WORK OPERATIONS, AND SUCH THAT IT DOES NOT CONSTITUTE A HAZARD TO PEDESTRIANS, WORKERS OR OTHER ROAD USERS. DETECTABLE PEDESTRIAN EDGING SHALL BE ORANGE, WHITE OR YELLOW AND SHOULD MATCH THE COLOR OF THE ADJACENT CHANNELIZING DEVICES OR TRAFFIC CONTROL DEVICES, IF ANY ARE PRESENT. INDIVIDUAL CHANNELIZING DEVICES, TAPE, ROPE, OR OTHER DISCONTINUOUS DEVICES WILL NOT BE ALLOWED. PEDESTRIAN EDGING COSTS SHALL BE INCLUDED IN SPECIAL PROVISION (TRAFFIC CONTROL, ALL-INCLUSIVE).

TRAFFIC CONTROL - DETAILS

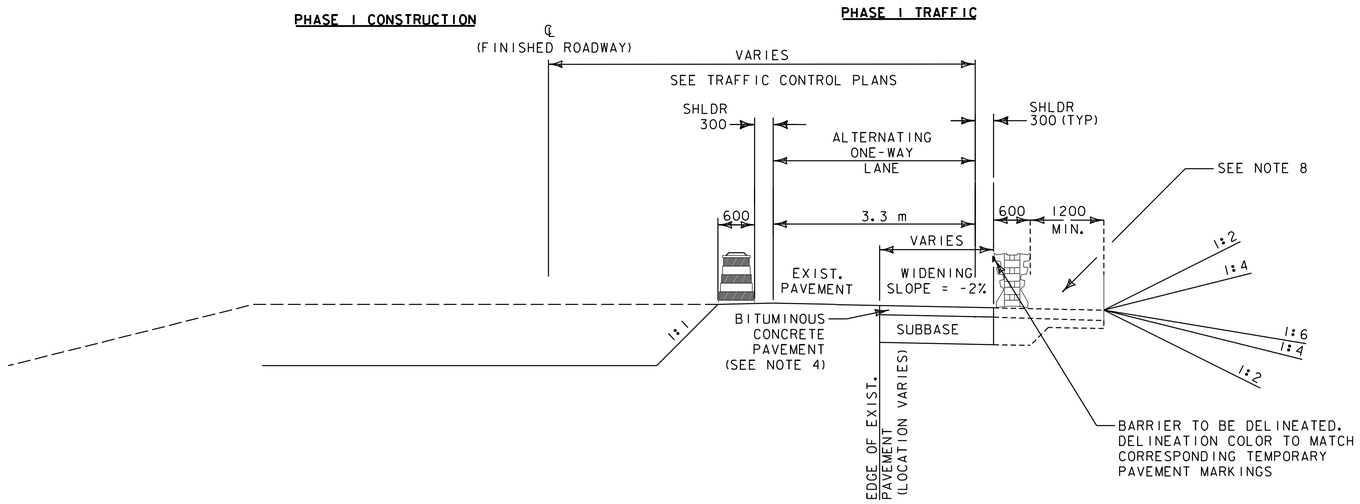
PROJECT NAME: BRANDON
PROJECT NUMBER: NH 019-3(496)

FILE NAME: zb008s6-tcpdet.dgn
PROJECT LEADER: C. BEAN
DESIGNED BY: J. FOWLER
PLOT DATE: 2/23/2017
DRAWN BY: J. FOWLER
CHECKED BY: J. FRYER
SHEET 382 OF 601

CLD 02-0448 MODEL:1

ISSUED FOR CONSTRUCTION

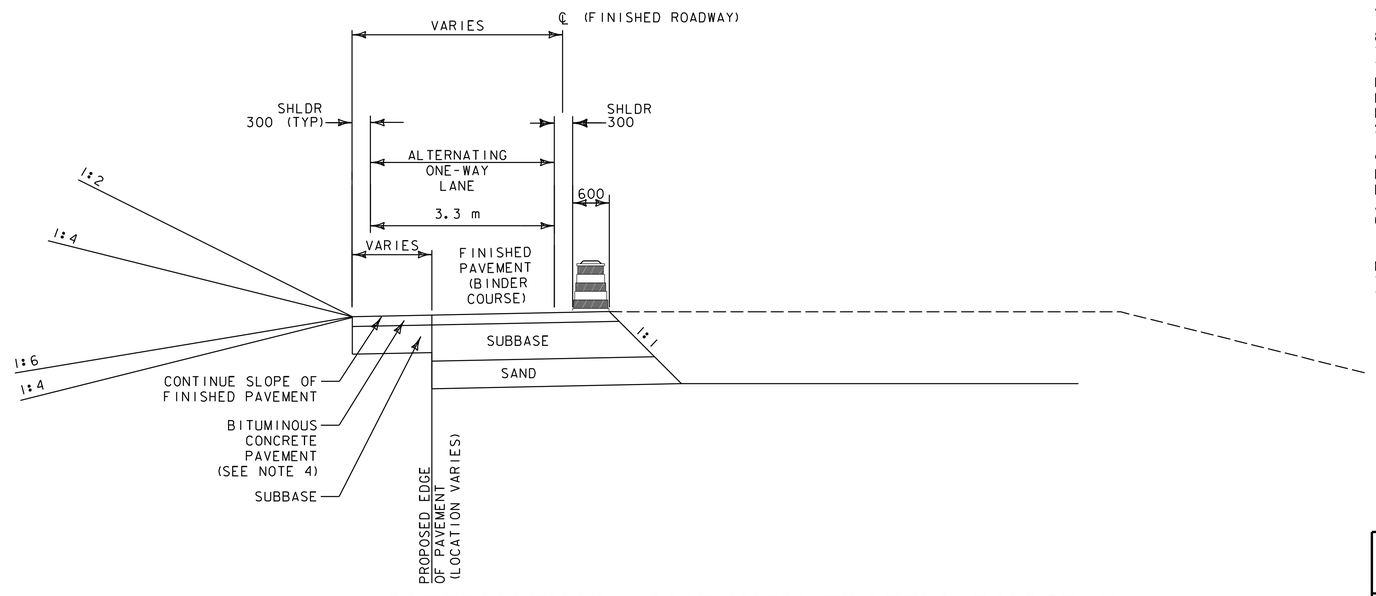
FOR TEMPORARY WIDENING:
160 BITUMINOUS CONCRETE PAVEMENT (TYPE I) (PG 58-28) (2 - 80 mm LIFTS)
450 SUBBASE OF DENSE GRADED CRUSHED STONE



ALTERNATING ONE-WAY TRAFFIC: PHASE I

NOT TO SCALE

FOR TEMPORARY WIDENING:
160 BITUMINOUS CONCRETE PAVEMENT (TYPE IS) (PG 70-28) (2 - 80 mm LIFTS)
450 SUBBASE OF DENSE GRADED CRUSHED STONE



ALTERNATING ONE-WAY TRAFFIC: PHASE II

NOT TO SCALE

NOTES:

1. DETAILS DEPICT PHASE I TRAFFIC SHIFTED RIGHT AND PHASE II TRAFFIC SHIFTED LEFT. PHASE I AND PHASE II TRAFFIC MAY BE SHIFTED LEFT OR RIGHT DEPENDING ON LOCATION AS SHOWN ON THE PLANS.

2. PLANS AND CROSS SECTIONS DEPICT PHASE I TRAFFIC ON EXISTING PAVEMENT WITH TEMPORARY WIDENING WHEN NECESSARY, AND PHASE 2 TRAFFIC ON BINDER COURSE WITH TEMPORARY WIDENING WHEN NECESSARY. CONTRACTOR SHALL TEMPORARILY USE CENTERLINE REFLECTORIZED DRUMS OR OTHER REQUIRED CHANNELIZING DEVICES BETWEEN OPPOSITE TRAVEL LANES, OR IN AREAS WHERE THE GRADE DIFFERENCE BETWEEN PHASE I AND ULTIMATE GRADE IS SIGNIFICANT DUE TO ROADWAY PROFILE CHANGE UNTIL BOTH PHASES OF CONSTRUCTION ARE COMPLETE. REFER TO STANDARD T-35 REGARDING REQUIRED CHANNELIZING DEVICES.

3. ALTERNATING ONE-WAY TRAFFIC WILL ONLY BE ALLOWED DURING ACTIVE CONSTRUCTION OPERATIONS. UNLESS NOTED OTHERWISE IN THE PLANS OR DIRECTED BY THE ENGINEER, ROADWAY SHALL BE OPENED TO TWO-WAY TRAFFIC WITH APPROPRIATE TRAFFIC CONTROL DEVICES PRIOR TO CLOSEOUT OF CONSTRUCTION ACTIVITIES ON A DAILY BASIS.

4. ALL TEMPORARY WIDENING AND ROADWAY SUBBASE IN PLACE LONGER THAN 3 DAYS OR OVER WEEKEND SHALL BE PAVED. SHORT-TERM WIDENING USED AS THE ROLLING CONSTRUCTION PROGRESSES DOES NOT NEED TO BE PAVED BUT SHALL BE RESTORED/SEEDED WHEN NO LONGER REQUIRED OR AS DIRECTED BY THE ENGINEER.

5. THE TRAFFIC CONTROL PLANS DO NOT DEPICT ADDITIONAL CONSTRUCTION ACTIVITIES, SUCH AS REMOVAL OF EXISTING CONCRETE ROAD BED, REMOVAL OF TEMPORARY WIDENING, INSTALLATION AND REMOVAL OF TEMPORARY DRAINAGE STRUCTURES AND FINAL PAVING NECESSARY UPON COMPLETION OF THE PHASE II CONSTRUCTION. WHENEVER POSSIBLE, TWO-WAY TRAFFIC SHALL BE MAINTAINED DURING THESE ACTIVITIES, UNLESS OTHERWISE DIRECTED BY THE ENGINEER. THE CONTRACTOR SHALL PROVIDE SITE-SPECIFIC TRAFFIC CONTROL PLAN TO ADDRESS THESE FEATURES.

6. THIS DETAIL MAY BE USED WHEN NECESSARY FOR INSTALLING UTILITIES INCLUDING THE NEED FOR TEMPORARY WIDENING AS NOTED ON THE UTILITY PHASE TRAFFIC CONTROL PLANS EXCEPT THAT SHIFTED TRAFFIC WILL BE ON EXISTING PAVEMENT VERSUS FINISHED PAVEMENT BINDER COURSE. ROADWAY SHALL BE OPENED TO TWO-WAY TRAFFIC AT THE END OF EACH DAY. INCOMPLETE TRENCH WORK SHALL BE TEMPORARILY BACKFILLED OR COVERED WITH STEEL PLATES IF APPROVED BY ENGINEER.

7. THIS DETAIL APPLIES TO CONSTRUCTION ACTIVITIES, INCLUDING UTILITIES, ON US 7, VT 73 EAST, AND VT 73 WEST. FOR OTHER TOWN HIGHWAYS, CONTRACTOR MAY PROPOSE SHORT TERM CLOSURES AND SHALL PROVIDE SITE SPECIFIC DETOUR PLANS.

8. PROVIDE 1.2m MIN. TEMPORARY PEDESTRIAN ACCESS ROUTE WITH TL-2 APPROVED WATER FILLED BARRIERS BETWEEN TRAFFIC AND TPAR AT LOCATIONS DEPICTED ON THE PLANS AND CROSS SECTIONS. PROVIDE 1.5m X 1.5m PASSING SPACE EVERY 60m WHEN TPAR IS LESS THAN 1.5m WIDE. BARRIER SHALL MEET MUTCD REQUIREMENTS FOR PEDESTRIAN CHANNELIZING DEVICES. SEE NOTE 6 ON PREVIOUS SHEET FOR REQUIREMENTS OF DETECTABLE PEDESTRIAN EDGING.

9. THE TEMPORARY FACILITY SHOULD REPLICATE AS NEARLY AS PRACTICAL THE ACCESSIBILITY FEATURES PRESENT IN THE EXISTING PEDESTRIAN FACILITY WHEN THE EXISTING FACILITIES ARE DISRUPTED, CLOSED, OR RELOCATED IN A TEMPORARY TRAFFIC CONTROL ZONE.

10. TRAVEL LANES FOR RESTORED TWO-WAY TRAFFIC SHALL BE A MINIMUM OF 1.8m FROM WATER FILLED BARRIER. ADDITIONAL TRAFFIC CONTROL DEVICES SHALL BE INSTALLED ALONG EDGE OF TRAVELED WAY TO DIRECT TRAFFIC AWAY FROM TPAR.

TRAFFIC CONTROL - DETAILS

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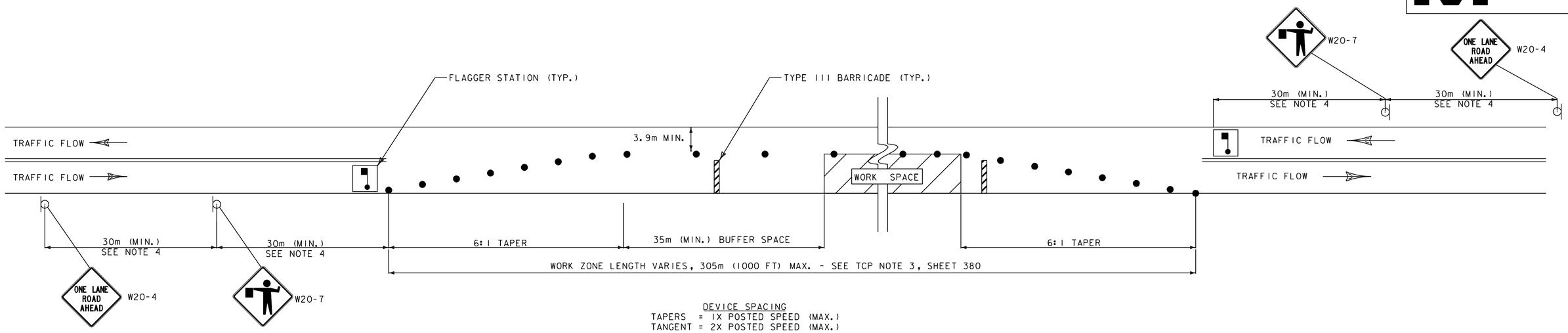
PROJECT NUMBER: NH 019-3(496)

FILE NAME: zb008s6-tcpdet.dgn
PROJECT LEADER: C. BEAN
DESIGNED BY: J. FOWLER
PLOT DATE: 2/23/2017
DRAWN BY: J. FOWLER
CHECKED BY: J. FRYER
SHEET 383 OF 601

CLD 02-0448 MODEL: 2

ISSUED FOR CONSTRUCTION

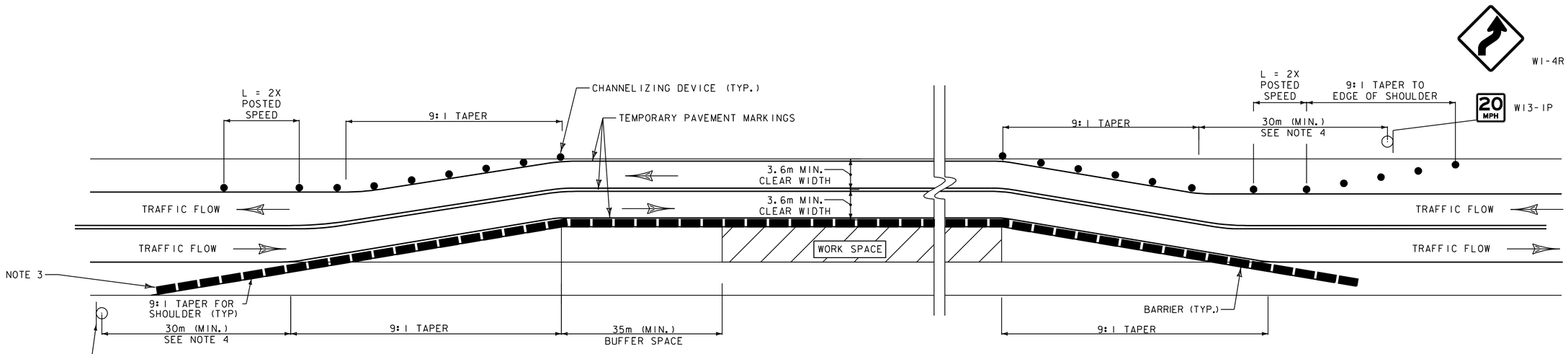
VAOT Metric



DEVICE SPACING
TAPERS = 1X POSTED SPEED (MAX.)
TANGENT = 2X POSTED SPEED (MAX.)

TYPICAL WORK ZONE LAYOUT FOR ALTERNATING ONE-WAY TRAFFIC

NOT TO SCALE



DEVICE SPACING
TAPERS = 1X POSTED SPEED (MAX.)
TANGENT = 2X POSTED SPEED (MAX.)

TYPICAL WORK ZONE LAYOUT FOR TWO-WAY TRAFFIC

NOT TO SCALE

NOTE:
1. TAPER RATES AND DEVICE SPACING ARE BASED UPON TANGENT SECTIONS. INCREASE TAPER LENGTHS AND DECREASE DEVICE SPACING ON CURVED SECTIONS PER MUTCD.

2. BUFFER SPACE IS SHOWN BASED ON POSTED SPEED OF 25 MPH. INCREASE BUFFER SPACE MINIMUM PER MUTCD TABLE 6C-2 WHEN OPERATING SPEEDS ARE HIGHER, OR IN AREAS WITH POSTED SPEED OF 35 MPH AND 40 MPH.

3. CONTRACTOR SHALL PROVIDE ATTENUATOR IF BARRIER ENDS CANNOT BE LOCATED OUTSIDE OF CLEAR ZONE.

4. CONSTRUCTION SIGN SPACING SHALL BE INCREASED AS NEEDED AT EACH WORK ZONE LOCATION TO PROVIDE APPROPRIATE ADVANCED WARNING BEFORE VEHICLES REACH THE QUEUED VEHICLES. SEE CONSTRUCTION APPROACH SIGNING SHEET FOR ADDITIONAL APPROACH SIGN REQUIREMENTS.

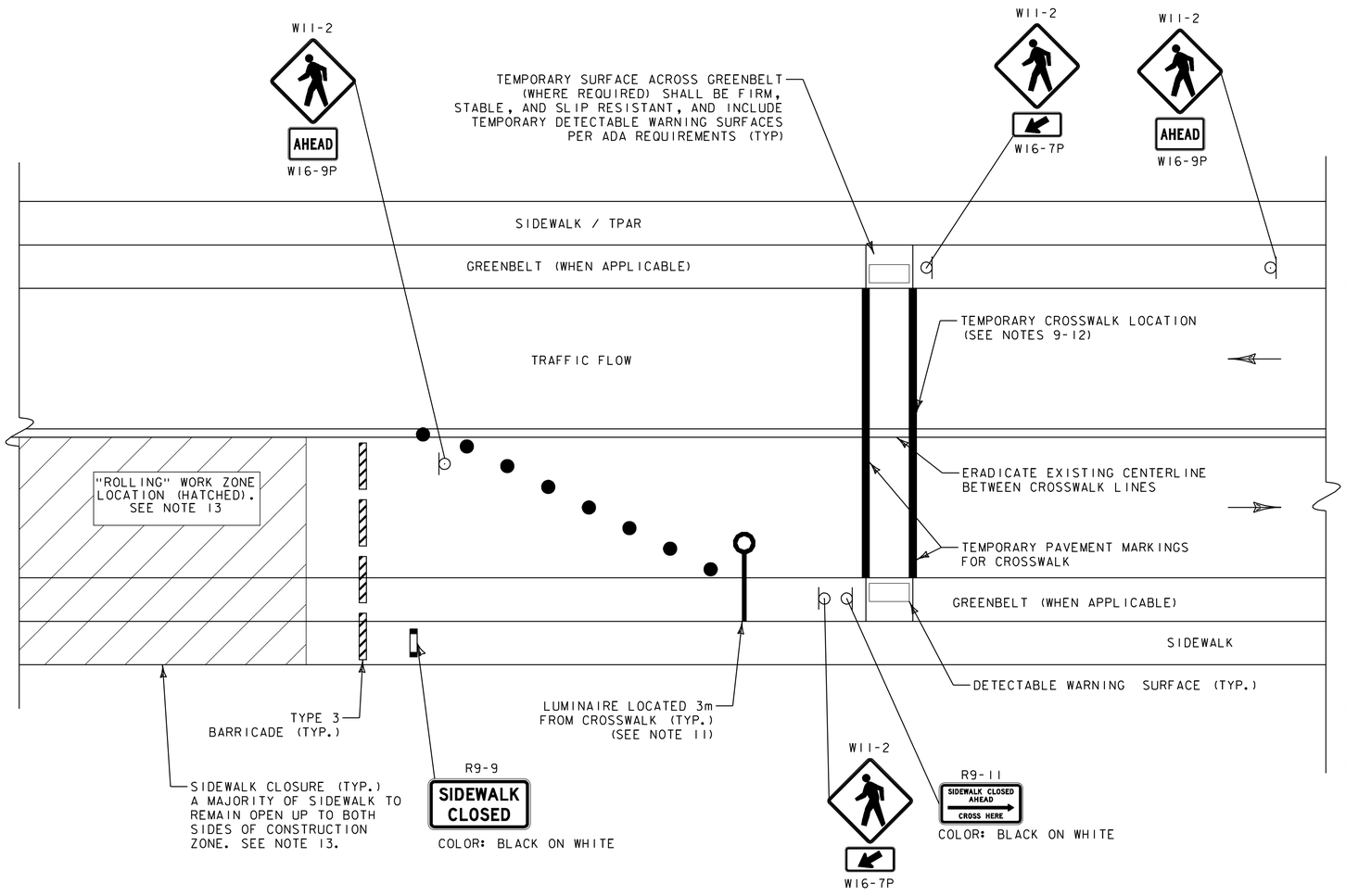
5. ALL SIGNS THIS SHEET: COLOR = BLACK ON ORANGE.

TRAFFIC CONTROL - DETAILS

PROJECT NAME: BRANDON
PROJECT NUMBER: NH 019-3(496)

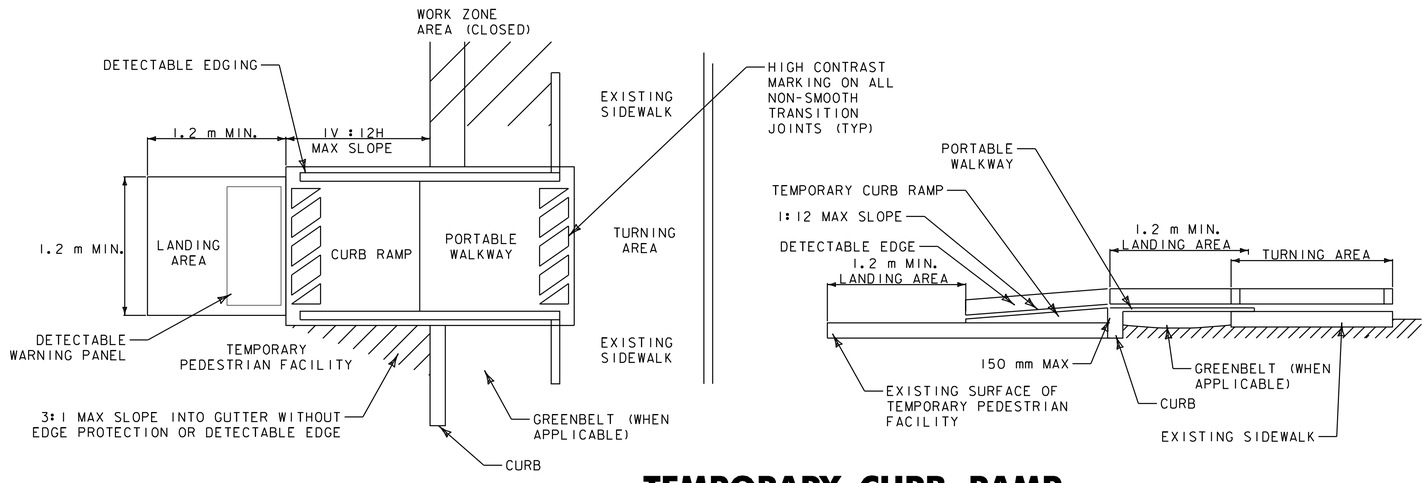
FILE NAME: zb008s6-tcpdet.dgn
PROJECT LEADER: C. BEAN
DESIGNED BY: J. FOWLER
PLOT DATE: 2/23/2017
DRAWN BY: J. FOWLER
CHECKED BY: J. FRYER
SHEET 384 OF 601

CLD 02-0448 MODEL: 3



PEDESTRIAN TEMPORARY TRAFFIC CONTROL

NOT TO SCALE



TEMPORARY CURB RAMP

NOT TO SCALE

PEDESTRIAN TEMPORARY TRAFFIC CONTROL NOTES:

1. THE CONTRACTOR SHALL MAINTAIN PEDESTRIAN THROUGH MOVEMENTS FROM ONE END OF THE CONSTRUCTION AREA TO THE OTHER ON AT LEAST ONE SIDE OF THE STREET DURING CONSTRUCTION. ANY SIDEWALK CLOSURES SHALL MEET THE REQUIREMENTS OF THE MUTCD, PART 6.

2. PEDESTRIAN ACCESS SHALL BE PROVIDED TO ALL ADJACENT PROPERTIES, BUILDINGS, RESIDENCES AND COMMERCIAL PROPERTIES AT ALL TIMES. THIS MAY INCLUDE TEMPORARY WALKWAYS SPANNING THE CONSTRUCTION AREA.

3. WHEN SIDEWALKS ARE CLOSED, SIGNS AND BARRICADES SHALL BE USED TO PROVIDE ADVANCE NOTICE OF THE CLOSURE AND THE ROUTE OF ANY PEDESTRIAN DETOURS. TEMPORARY PEDESTRIAN ACCESS ROUTES (TPARS) HAVE BEEN IDENTIFIED ON THE TRAFFIC CONTROL PLANS WHERE SIDEWALKS ARE CLOSED FOR RECONSTRUCTION AND A SIDEWALK DETOUR CANNOT BE PROVIDED ON EXISTING OR ULTIMATE SIDEWALK ON THE OTHER SIDE OF THE STREET. TPARS WERE INCLUDED WHEN THE ACCESS ROUTE IS OFF ALIGNMENT AND/OR NOT AT FINAL GRADE. THE TPAR SHALL HAVE A MINIMUM UNOBSTRUCTED WIDTH OF 1.2m (4 ft). IF THE TPAR IS LESS THAN 1.5m (5 ft) IN WIDTH, A 1.5m (5 ft) BY 1.5m (5 ft) PASSING SPACE SHOULD BE PROVIDED AT LEAST EVERY 61m (200 ft). THE SURFACE OF THE TPAR SHALL BE SMOOTH AND CONTINUOUS FOR THE LENGTH OF THE TPAR. THE TPAR SHALL MAINTAIN THE SAME LEVEL OF ACCESSIBILITY AND DETECTABILITY AS THE FACILITY THAT IS BEING CLOSED. THE TPAR SHALL NOT LEAD PEDESTRIANS INTO CONFLICTS WITH VEHICLES, EQUIPMENT, OR CONSTRUCTION OPERATIONS.

4. IF THE TPAR IS ADJACENT TO MOVING TRAFFIC, CONSTRUCTION OPERATIONS/EQUIPMENT, OR DROP-OFFS, THEN CRASH WORTHY CHANNELIZING DEVICES THAT MEET THE REQUIREMENTS OF THE MUTCD SHALL BE USED.

5. THE CONTRACTOR SHALL NOT STORE OR PLACE ANY CONSTRUCTION MATERIALS, EQUIPMENT OR SIGNS IN THE PEDESTRIAN PATH OF TRAVEL.

6. THE CONTRACTOR'S OPERATIONS SHALL NOT OCCUPY EXISTING SIDEWALKS EXCEPT WHERE PROPER PROTECTION AND A TPAR HAVE BEEN PROVIDED.

7. THE FOLLOWING TRAFFIC CONTROL PLANS DEPICT POSSIBLE TPARS. THE CONTRACTOR SHALL, FOR EACH PHASE, PROVIDE A TEMPORARY PEDESTRIAN TRAFFIC CONTROL PLAN FOR REVIEW AND WRITTEN APPROVAL BY THE RESIDENT ENGINEER A MINIMUM OF THREE WEEKS BEFORE SUCH PLAN IS IMPLEMENTED. THIS PLAN SHALL DETAIL THE CONSTRUCTION PHASING AND SCHEDULE AND THE SPECIFIC METHODS OF MAINTAINING SAFE PEDESTRIAN ACCESS THROUGHOUT THE CONSTRUCTION AREA. THIS PLAN SHALL PROVIDE THE LOCATION AND DETAILS OF TEMPORARY CONSTRUCTION SIGNING, MARKINGS, BARRICADES, CHANNELIZING DEVICES, TPARS AND METHODS TO MAINTAIN ACCESS TO ADJACENT PROPERTIES, BUSINESSES, RESIDENCES, ETC.

8. PROVISION OF THE TPAR AND ALL OF ITS ELEMENTS, INCLUDING BUT NOT LIMITED TO SIGNS, CHANNELIZING DEVICES, BARRICADES, TEMPORARY PAVEMENT MARKINGS AND OTHER TRAFFIC CONTROL DEVICES IS TO BE PAID FOR INCIDENTAL TO SPECIAL PROVISION (TRAFFIC CONTROL-ALL INCLUSIVE).

9. TEMPORARY CROSSWALKS WILL BE ALLOWED ONLY AT LOCATIONS AS SHOWN ON THE PLANS OR AS APPROVED BY THE ENGINEER IF SIGHT DISTANCE MEETS OR EXCEEDS THE STOPPING SIGHT DISTANCE OF THE POSTED SPEED LIMIT FOR THE WORK ZONE AND NO OTHER CROSSWALK IS WITHIN 60m OF SAID CROSSWALK. ALSO, THE PROPOSED TEMPORARY CROSSWALK CANNOT BE OBSTRUCTED BY PARKED VEHICLES OR CONSTRUCTION EQUIPMENT OR MATERIALS.

10. DURING ACTIVE CONSTRUCTION OPERATIONS WHEN THE CROSSWALK IS LOCATED WITHIN OR ADJACENT TO THE WORK ZONE, AN INDEPENDENT FLAGGER SHALL BE PROVIDED TO CONTROL PEDESTRIAN MOVEMENT AND COORDINATE WITH VEHICULAR TRAFFIC FLAGGERS TO PROVIDE SAFE CROSSING.

11. TEMPORARY CROSSWALKS SHALL BE ESTABLISHED AT A PERMANENT LOCATION FOR THE DURATION OF EACH PHASE OF CONSTRUCTION, AND SHALL HAVE LIGHTING AS SHOWN IN THE DETAIL. WHEN RELOCATION OF A TEMPORARY CROSSWALK IS REQUIRED FOR AN INTERIM BASIS TO ALLOW FOR ACTIVE CONSTRUCTION OPERATIONS AT THE PERMANENT LOCATION, AN INDEPENDENT FLAGGER SHALL BE ASSIGNED AT THE INTERIM LOCATION TO PROVIDE ASSISTANCE TO PEDESTRIANS IN LOCATING THE INTERIM CROSSWALK AND SAFELY CROSSING. THE PERMANENT LOCATION OF THE TEMPORARY CROSSWALK SHALL BE RE-ESTABLISHED PRIOR TO CLOSE OF ACTIVITIES AT THE END OF THE WORK DAY. THE INTERIM LOCATION SHALL HAVE SIGNAGE AND STRIPING AS SHOWN IN THE DETAIL. LIGHTING WILL NOT BE REQUIRED FOR THE INTERIM LOCATION, UNLESS ACTIVE CONSTRUCTION IS OCCURRING PRIOR TO DAWN OR AFTER DUSK.

12. ALL PROPOSED TEMPORARY CROSSWALK LOCATIONS SHALL BE SHOWN IN THE CONTRACTOR'S TEMPORARY PEDESTRIAN TRAFFIC CONTROL PLAN, INCLUDING ALL SIGNAGE AND DEVICES, MEETING OR EXCEEDING THE REQUIREMENTS SHOWN ON DETAIL.

13. DETAIL DEPICTS A "ROLLING" WORK ZONE THAT IS BROKEN DOWN EACH DAY (RETURNED TO TWO-WAY TRAFFIC) AND PROGRESSES THROUGHOUT THE PROJECT SEGMENT. SIDEWALK CLOSURE LENGTH ADJACENT TO ROADWAY WORK ZONE OR IN IMMEDIATE AREA OF SIDEWALK CONSTRUCTION SHALL BE MINIMIZED AND MAJORITY OF SIDEWALK ON BOTH ENDS OF SIDEWALK CLOSURE SHALL REMAIN OPEN TO ALLOW PEDESTRIAN ACCESS TO SIDEWALK FROM ABUTTING BUSINESSES AND RESIDENCES.

14. ALL SIGNS THIS SHEET: COLOR = BLACK ON ORANGE UNLESS OTHERWISE NOTED.

TEMPORARY CURB RAMP NOTES:

1. CURB RAMPS SHALL BE 1.5m MINIMUM WIDTH WITH A FIRM, STABLE, AND NON-SLIP SURFACE.

2. PROTECTIVE EDGING WITH A 50mm MINIMUM HEIGHT SHALL BE INSTALLED WHEN THE CURB RAMP OR LANDING PLATFORM HAS A VERTICAL DROP OF 150mm OR GREATER OR HAS A SIDE APRON SLOPE STEEPER THAN 1:3. PROTECTIVE EDGING SHOULD BE CONSIDERED WHEN THE CURB RAMPS OR LANDING PLATFORMS HAVE A VERTICAL DROP OF 75mm OR MORE.

3. DETECTABLE EDGING WITH A 150mm MINIMUM HEIGHT AND CONTRASTING COLOR SHALL BE INSTALLED ON ALL CURB RAMP LANDINGS WHERE THE WALKWAY CHANGES DIRECTION (TURNS).

4. CURB RAMPS AND LANDINGS SHOULD HAVE A 1:50 (2%) MAXIMUM CROSS-SLOPE.

5. CLEAR SPACE OF 1.2m X 1.2m MINIMUM SHALL BE PROVIDED ABOVE AND BELOW THE CURB RAMP.

6. THE CURB RAMP WALKWAY EDGE SHALL BE MARKED WITH A CONTRASTING COLOR 50-100mm WIDE MARKING. THE MARKING IS OPTIONAL WHERE COLOR CONTRASTING EDGING IS USED.

7. WATER FLOW IN THE GUTTER SYSTEM SHALL HAVE MINIMAL RESTRICTION.

8. LATERAL JOINTS OR GAPS BETWEEN SURFACES SHALL BE LESS THAN 13mm WIDE

9. CHANGES BETWEEN SURFACE HEIGHTS SHOULD NOT EXCEED 13mm LATERAL EDGES SHOULD BE VERTICAL UP TO 6mm HIGH AND BEVELED AT 1:2 BETWEEN 6-13mm HEIGHT.

TRAFFIC CONTROL - DETAILS

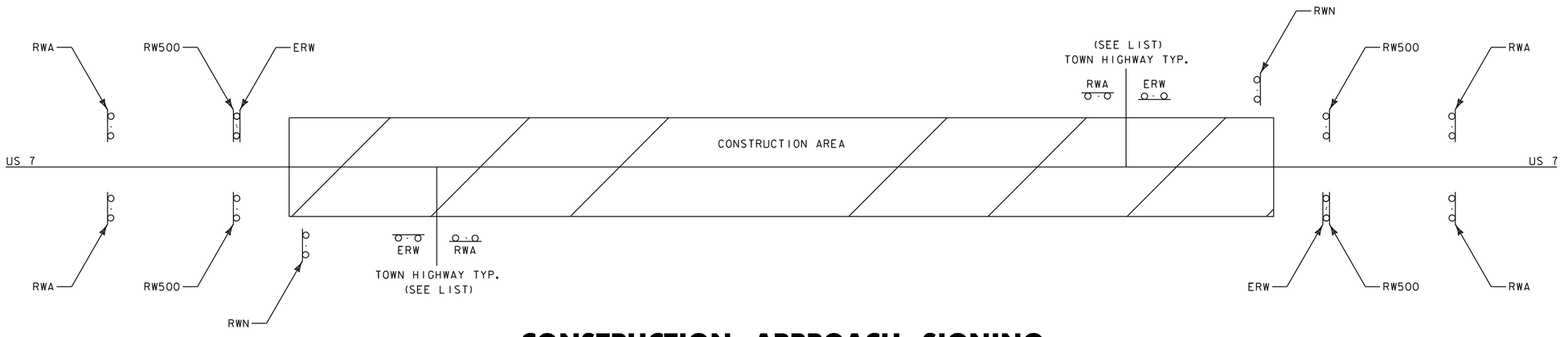
PROJECT NAME: BRANDON
PROJECT NUMBER: NH 019-3(496)

FILE NAME: zb008s6-tcpdet.dgn
PROJECT LEADER: C. BEAN
DESIGNED BY: J. FOWLER
PLOT DATE: 2/23/2017
DRAWN BY: J. FOWLER
CHECKED BY: J. FRYER
SHEET 385 OF 601

CLD 02-0448 MODEL: 4

ISSUED FOR CONSTRUCTION

LEGEND
RWA = ROAD WORK AHEAD
RW500 = ROAD WORK 500'
RWN = ROAD WORK NEXT 1¼ MILES
ERW = END ROAD WORK



CONSTRUCTION APPROACH SIGNING

NOT TO SCALE

SEE STD T-10 FOR SIGN PLACEMENT

NOTE: WHEN DIRECTED BY THE ENGINEER, "NO OUTLET" SIDE ROADS WILL NOT REQUIRE CONSTRUCTION SIGNING

LIST OF TOWN/STATE HIGHWAYS FOR CONSTRUCTION SIGNS

TOWN/STATE HIGHWAY NAME	ROAD WORK AHEAD	END ROAD WORK	ROAD WORK 500'	ROAD WORK NEXT 1¼ MILES	PCMS
BRANDON					
HIGH ST TH-62	1	1			
VT 73 EAST TH-3	1	1			1
CARVER ST TH-42	1	1			
ROSSITER ST TH-70	1	1			
UNION ST TH-5	1	1			
MILL LN TH-52					
W. SEMINARY ST TH-69	1	1			
RIVER ST TH-69	1	1			
BRIGGS LN TH-54					
PROSPECT ST TH-47	1	1			
PEARL ST TH-4	1	1			
VT 73 WEST TH-3	1	1			1
BEGINNING OF PROJECT	2	1	2	1	2
END OF PROJECT	2	1	2	1	2
TOTAL	14	12	4	2	6

CLD 02-0448 MODEL:1

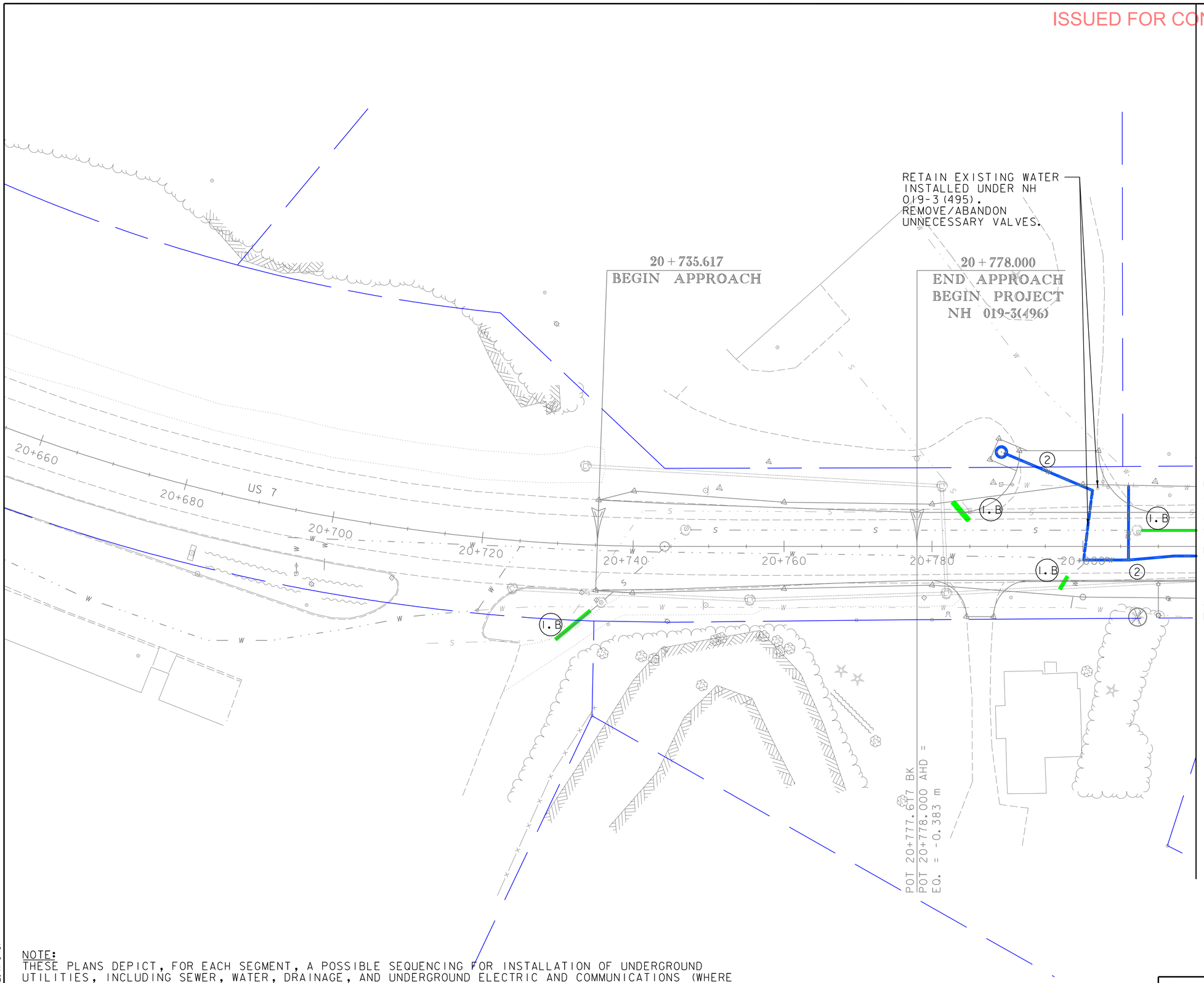
CONSTRUCTION APPROACH SIGNING

PROJECT NAME: BRANDON
PROJECT NUMBER: NH 019-3(496)

FILE NAME: zb008s6-cas.dgn
PROJECT LEADER: C. BEAN
DESIGNED BY: J. FOWLER
PLOT DATE: 2/23/2017
DRAWN BY: J. FOWLER
CHECKED BY: D. MUNRO

ISSUED FOR CONSTRUCTION

VAOT Metric



VT STATE PLANE GRID

N

GENERAL

1. INSTALL TEMPORARY WIDENING LEFT SIDE FOR SHIFTING TRAFFIC AND MAINTAINING PEDESTRIAN ACCESS DURING WATERLINE CONSTRUCTION 20+900 TO 21+020. SEE PHASE I TCP FOR WIDENING LOCATIONS. ADDITIONAL WIDENING MAY BE REQUIRED NEAR STA. 21+370 TO INSTALL THE WATER MAIN.

2. INSTALLATION OF UTILITIES WILL REQUIRE DAYTIME ONE-LANE ALTERNATING TRAFFIC CONTROL WITH FLAGGERS. OPEN TRENCHES ARE TO BE BACKFILLED OR PLATED AT END OF EACH DAY AND TWO-LANE TRAFFIC RESTORED OVERNIGHT. HIGH STREET CAN BE CLOSED TO TRAFFIC, WITH PROPER NOTIFICATION AND DETOUR SIGNAGE, FOR CONSTRUCTION AND DURING BLASTING.

3. ONE-LANE ALTERNATING TRAFFIC LAYOUTS AND TPAR'S SHALL CONFORM TO THE PHASE I OR PHASE II TCP LAYOUTS, AS APPROPRIATE. SEE ALSO ONE-WAY ALTERNATING TRAFFIC DETAILS ON TRAFFIC CONTROL DETAILS SHEETS.

4. AVOID AND PROTECT EXISTING UNDERGROUND TELEPHONE LINES (SHOWN DASHED) AT NORTH END OF SEGMENT.

5. LOCATION OF PROPOSED SEWER AND WATER SERVICES ARE APPROXIMATE ONLY.

6. NOTE THAT EXCAVATION FOR UTILITY INSTALLATION MAY INCLUDE SAWCUT AND REMOVAL OF EXISTING PORTLAND CEMENT CONCRETE ROADBED DEPENDING ON CONTRACTOR'S CHOICE TO REMOVE SLABS BEFORE UTILITY WORK OR DURING ROADWAY RECONSTRUCTION AFTER UTILITY WORK.

CONSTRUCTION SEQUENCE

- I. B. SEWER
- 2. WATER

NOTE:
THESE PLANS DEPICT, FOR EACH SEGMENT, A POSSIBLE SEQUENCING FOR INSTALLATION OF UNDERGROUND UTILITIES, INCLUDING SEWER, WATER, DRAINAGE, AND UNDERGROUND ELECTRIC AND COMMUNICATIONS (WHERE APPLICABLE) IN ADVANCE OF THE ROADWAY RECONSTRUCTION WORK EFFORT AND INCLUDE SUGGESTED TRAFFIC CONTROL MEASURES DURING INSTALLATION OF UTILITIES. THESE PLANS SHOULD BE CONSIDERED APPROXIMATE WITH RESPECT TO THE DEPICTED LOCATION OF EXISTING UTILITIES AND FINAL LOCATION OF PROPOSED SERVICES TO RESIDENCES. THE ACTUAL SEQUENCE OF CONSTRUCTION, INCLUDING INSTALLATION OF UNDERGROUND UTILITIES AND SERVICES, SHALL BE DETERMINED BY THE CONTRACTOR BASED ON SELECTED METHODS OF CONSTRUCTION AND BASED ON INFORMATION OBTAINED DURING EXPLORATORY EXCAVATIONS AND ACTUAL FIELD CONDITIONS ENCOUNTERED DURING CONSTRUCTION.

0 10 20 30

SCALE IN METERS

SEGMENT A UTILITY PHASE TRAFFIC CONTROL PLAN I

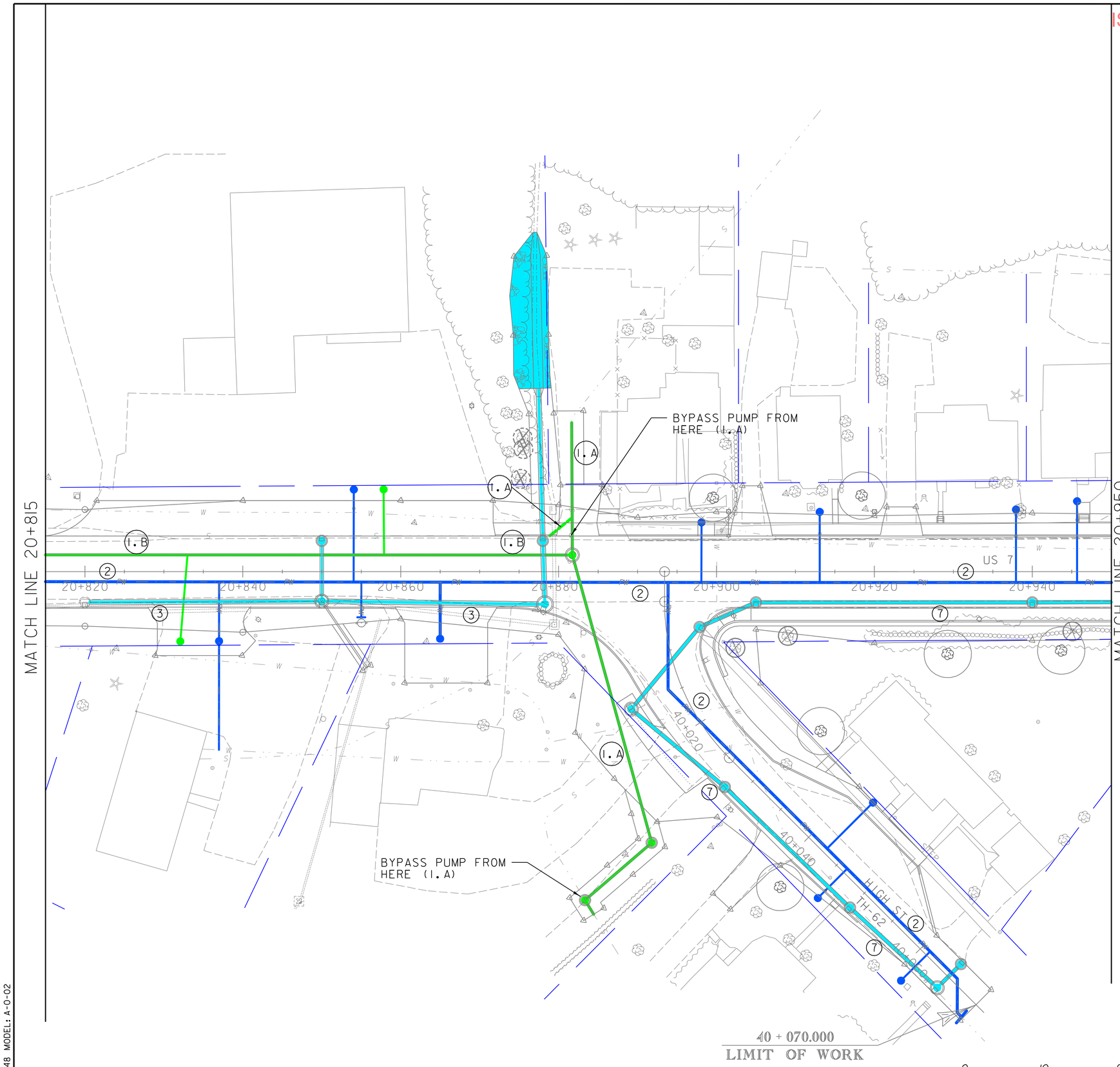
PROJECT NAME: BRANDON
PROJECT NUMBER: NH 019-3(496)

FILE NAME: zb008s6-tcp.dgn
PROJECT LEADER: C. BEAN
DESIGNED BY: J. FOWLER
PLOT DATE: 2/23/2017
DRAWN BY: J. FOWLER
CHECKED BY: J.FRYER
SHEET 387 OF 601

CLD 02-0448 MODEL: A-0-01

ISSUED FOR CONSTRUCTION

VAOT Metric



VT STATE PLANE GRID

CONSTRUCTION SEQUENCE

I.A SEWER
*MAINTAIN TRAFFIC PER PHASE I TCP.
*INSTALL SMH AT 40+025 RT. COORDINATE WITH PROPERTY OWNERS ABOUT TEMPORARY DISRUPTION TO SERVICE.
*BYPASS PUMP FROM EXISTING SMH AT 20+882 LT AND NEW SMH AT 40+025 RT TO EXISTING SMH AT 21+035 RT.
*INSTALL OUTLET SECTION OF SEWER ALONG DRIVE, NEW SMH AT 20+882 LT, AND SEWER UP TO SMH AT 40+025 RT DURING BYPASS PUMPING. ANTICIPATE TRENCH EXCAVATION OF ROCK INCLUDING BLASTING.
* MAKE TEMPORARY CONNECTION WITH WYE AT 20+882 LT JUST DOWNSTREAM FROM EXISTING SMH SO EXISTING SMH CAN BE REMOVED AND FINAL NEW SECTION OF SEWER CAN BE INSTALLED FROM WYE TO NEW SMH AT 20+882 LT.

I.B SEWER
*BYPASS PUMPING CAN CEASE. NEW SEWER CAN BE INSTALLED UP TO EXISTING SMH AT 21+807 LT. CONNECT LATERALS.
*CORE INTO SMH AT 20+807 LT AND CONNECT UP THE EXISTING PREVIOUSLY INSTALLED CAPPED LATERALS AT 20+795 RT, 20+784 LT, AND 20+730 RT.
*REMOVE EXISTING SMH AT 20+785 LT. CUT/PLUG THE TEMPORARY WYE AT 20+882 LT. FLOW FILL OLD SEWER.

2. WATER
*INSTALL NEW WATER 20+801 TO 21+026 WHILE EXISTING MAIN IN SERVICE. ANTICIPATE TRENCH EXCAVATION OF ROCK INCLUDING BLASTING. BLASTING FOR WATER INSTALLATION ON HIGH STREET AND OVERBLASTING FOR THE DRAINAGE WILL IMPACT THE EXISTING WATER MAIN FROM 40+030 TO 40+070. INSTALL INSERTION VALVE ON EXISTING MAIN AT 40+071. CLOSE VALVE AND CLOSE HIGH STREET VALVE AT 20+900 LT. PROVIDE TEMPORARY ABOVE-GROUND WATER TO 40+050 LT, 40+050 RT, 40+065 RT, AND 20+830 RT FROM HYDRANT ON HIGH STREET (OFF PLAN) AND/OR HYDRANT AT 20+789 LT. INSTALL NEW HIGH STREET MAIN. PRESSURE TEST, SHOCK, DE-CHLORINATE, TEST.
*CHARGE NEW MAINS BY CONNECTING TO EXISTING HIGH STREET MAIN AT 40+070.
*INSTALL NEW SERVICES AND ABANDON OLD SERVICES.
*CONNECT TO EXISTING WATER AT 20+800 AND INSTALL LATERAL AND HYDRANT AT 20+790 LT. HYDRANT AT 21+005 CANNOT BE INSTALLED UNTIL ROAD CONSTRUCTION IS COMPLETE.
*INSTALL VALVE ON EXISTING MAIN AT 21+025. ONCE SERVICES HAVE BEEN SWITCHED OVER, VALVE OFF AND BURY VALVE BOX AT 21+025 AND ABANDON OLD MAINS.

3. DRAINAGE
*INSTALL DRAINAGE AND STUBS FOR UNDERDRAIN FROM OUTFALL AT 20+880 LT, CONNECTING TO EXISTING DRAINAGE AT 20+820 RT.
*HIGH STREET DRAINAGE CANNOT BE COMPLETED UNTIL OUTFALL AT 21+020 IS BUILT (NEXT SHEET).

SEGMENT A UTILITY PHASE TRAFFIC CONTROL PLAN 2

PROJECT NAME:	BRANDON
PROJECT NUMBER:	NH 019-3(496)

FILE NAME: zb008s6-tcp.dgn	PLOT DATE: 2/23/2017
PROJECT LEADER: C. BEAN	DRAWN BY: J. FOWLER
DESIGNED BY: J. FOWLER	CHECKED BY: J.FRYER
	SHEET 388 OF 601

CLD 02-0448 MODEL: A-0-02

ISSUED FOR CONSTRUCTION

VT STATE PLANE GRID

MATCH LINE 20+950

MATCH LINE 21+070

BYPASS PUMP TO HERE (4)

BYPASS PUMP TO HERE (1)

BYPASS PUMP FROM HERE (4)

20+960 20+980 21+000 21+020 21+040 21+060

US 7

CONSTRUCTION SEQUENCE (CONT.)

4. DEEP DRAINAGE
*INSTALL DEEP DRAINAGE FIRST INCLUDING SAND FILTER AND OUTFALL. CAN BYPASS PUMP STREAM INTO OUTLET DITCH BEYOND WORK LIMITS (WILL FLOW SOUTH).
*REPLACE SEWER ADJACENT TO OUTFALL IF DAMAGED DURING INSTALLATION OF DRAINAGE. INSTALL NEW SMH AT 21+036 RT OVER EXISTING CROSS COUNTRY SEWER. COORDINATE WITH PROPERTY OWNERS FOR SHORT TERM DISRUPTION. THEN BYPASS PUMP OUT OF NEW SMH TO EXISTING SMH AT 20+975 LT. INSTALL INLET STUB TO SMH AT 21+040 RT WITH CAP FOR FUTURE CONNECTION (SEE NO. 5 BELOW) AND INSTALL TEMPORARY WYE TO CONNECT EXISTING SEWER AT 21+042 RT TO STUB. COORDINATE WITH PROPERTY OWNERS FOR SHORT TERM DISRUPTION. NOW CAN CONTINUE BYPASS PUMPING OUT OF NEW SMH AND INSTALL ALL NEW SEWER FROM DRAINAGE OUTFALL UP TO NEW SMH.
*CONNECT TO SMH AND CEASE BYPASS PUMPING. REPLACE IMPACTED WATER/SEWER SERVICES AT 21+030 LT.

5. SEWER
INSTALL NEW SEWER FROM CAPPED SEWER AT 21+040 RT TO 21+122 RT. CONNECT LATERALS. IT IS ASSUMED THAT LEFT SIDE PROPERTIES SERVICED FROM BACK. WILL NEED TEMPORARY DI AND DRAIN PIPE AT 21+095 RT IMPACTED FROM SEWER. FLOW FILL OLD SEWER.

6. WATER
*NEW WATERLINE INSTALLATION WILL IMPACT EXISTING WATERLINE FROM 21+030 TO 21+100. INSERT VALVE AT 21+105 AND TURN OFF VALVE. MAIN IS ALREADY INACTIVE SOUTH OF 21+025. TEMPORARY WATER WILL BE NEEDED AT 21+070 LT.
*INSTALL MAIN FROM 21+026 TO 21+135 AND CAP AT 21+135. PRESSURE TEST, SHOCK, DE-CHLORINATE, AND TEST.
*CHARGE BY CONNECTING TO NEW MAIN AT 21+026. INSTALL SERVICE AND ABANDON OLD SERVICE AT 21+070 LT. ABANDON OLD MAIN FROM 21+105 TO 21+135.

7. DRAINAGE
INSTALL DRAINAGE AND UNDERDRAIN STUBS FROM 21+050 TO 21+135 AND INSTALL DRAINAGE AND UNDERDRAIN STUBS FROM 21+043 UP TO AND INCLUDING HIGH STREET.

0 10 20 30
SCALE IN METERS

SEGMENT A UTILITY PHASE TRAFFIC CONTROL PLAN 3

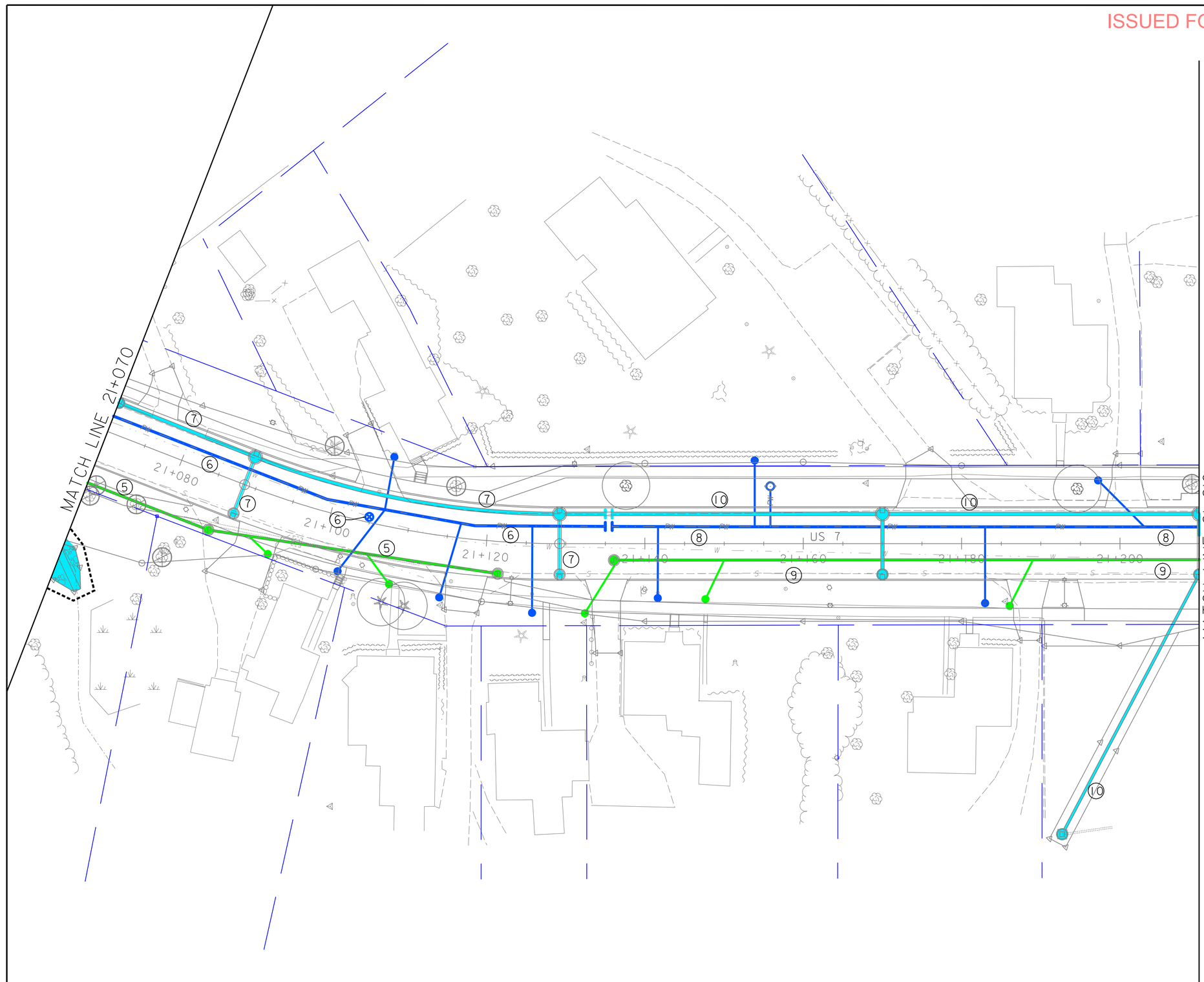
PROJECT NAME: BRANDON
PROJECT NUMBER: NH 019-3(496)

FILE NAME: zb008s6-tcp.dgn
PROJECT LEADER: C. BEAN
DESIGNED BY: J. FOWLER
PLOT DATE: 2/23/2017
DRAWN BY: J. FOWLER
CHECKED BY: J.FRYER
SHEET 389 OF 601

CLD 02-0448 MODEL: A-0-03

ISSUED FOR CONSTRUCTION

VAOT Metric



VT STATE PLANE GRID

N

CONSTRUCTION SEQUENCE (CONT.)

7. DRAINAGE
INSTALL DRAINAGE AND UNDERDRAIN STUBS FROM 21+050 TO 21+135 AND INSTALL DRAINAGE AND UNDERDRAIN STUBS FROM 21+043 UP TO AND INCLUDING HIGH STREET.

8. WATER
*SEWER WILL IMPACT WATER FROM 21+160 TO 21+340 SO INSTALL WATER FROM 21+135 TO 21+445, INCLUDING SERVICES, BEFORE SEWER INSTALLATION OR PROVIDE TEMPORARY WATER DURING SEWER INSTALLATION. INSTALL NEW WATER FROM 21+380 TO 21+445 WITHOUT IMPACTING EXISTING WATER (SIDE BY SIDE IN TRENCH) OR PROVIDE TEMPORARY WATER DURING INSTALLATION. PRESSURE TEST, SHOCK, DE-CHLORINATE, TEST.
*CHARGE BY CONNECTING TO NEW MAIN AT 21+135 AND TO PREVIOUSLY INSTALLED SEGMENT B WATER AT 21+445. INSTALL NEW SERVICES AND ABANDON OLD SERVICES. NEW HYDRANTS AT 21+155 LT AND 21+275 LT CAN BE INSTALLED (NOT IN WAY OF FUTURE TRAFFIC PHASING).
*ABANDON OLD MAIN FROM 21+330 TO 21+445. REST OF EXISTING MAIN WILL BE REMOVED DURING EXCAVATION FOR SEWER INSTALLATION.
*REMOVE TEMPORARY CONNECTION INSTALLED WITH SEGMENT B AT 21+445.

9. SEWER
INSTALL NEW SEWER, WORKING UP FROM CAPPED SEGMENT B SEWER AT 21+440 TO 21+135. TEMPORARY WYE AT 21+440 STILL IN PLACE FROM SEGMENT B WORK SO EXISTING SEWER REMAINS ACTIVE DURING INSTALLATION OF NEW SEWER. CONNECT LATERALS. REMOVE EXISTING SMHS AND FLOW FILL OLD SEWER.

10. DRAINAGE
INSTALL DRAINAGE AND UNDERDRAIN STUBS FROM 21+135 TO 21+210. THEN INSTALL DRAINAGE FROM 21+450 (FROM CAPPED NEW SEGMENT B DRAINAGE) TO 21+270. EXISTING DRAINAGE ON LEFT SIDE CAN REMAIN ACTIVE IF NECESSARY WITH TEMPORARY PIPES INTO NEW DRAINAGE INLETS AT 21+427 LT AND 21+355 LT UNTIL GRADING TO NEW DRAINAGE INLETS IS FINISHED. REMOVE OR FLOW FILL OLD DRAINAGE THAT IS NOT ALREADY REMOVED DURING EXCAVATION FOR INSTALLATION OF NEW DRAINAGE.

0 10 20 30
SCALE IN METERS

SEGMENT A UTILITY PHASE TRAFFIC CONTROL PLAN 4

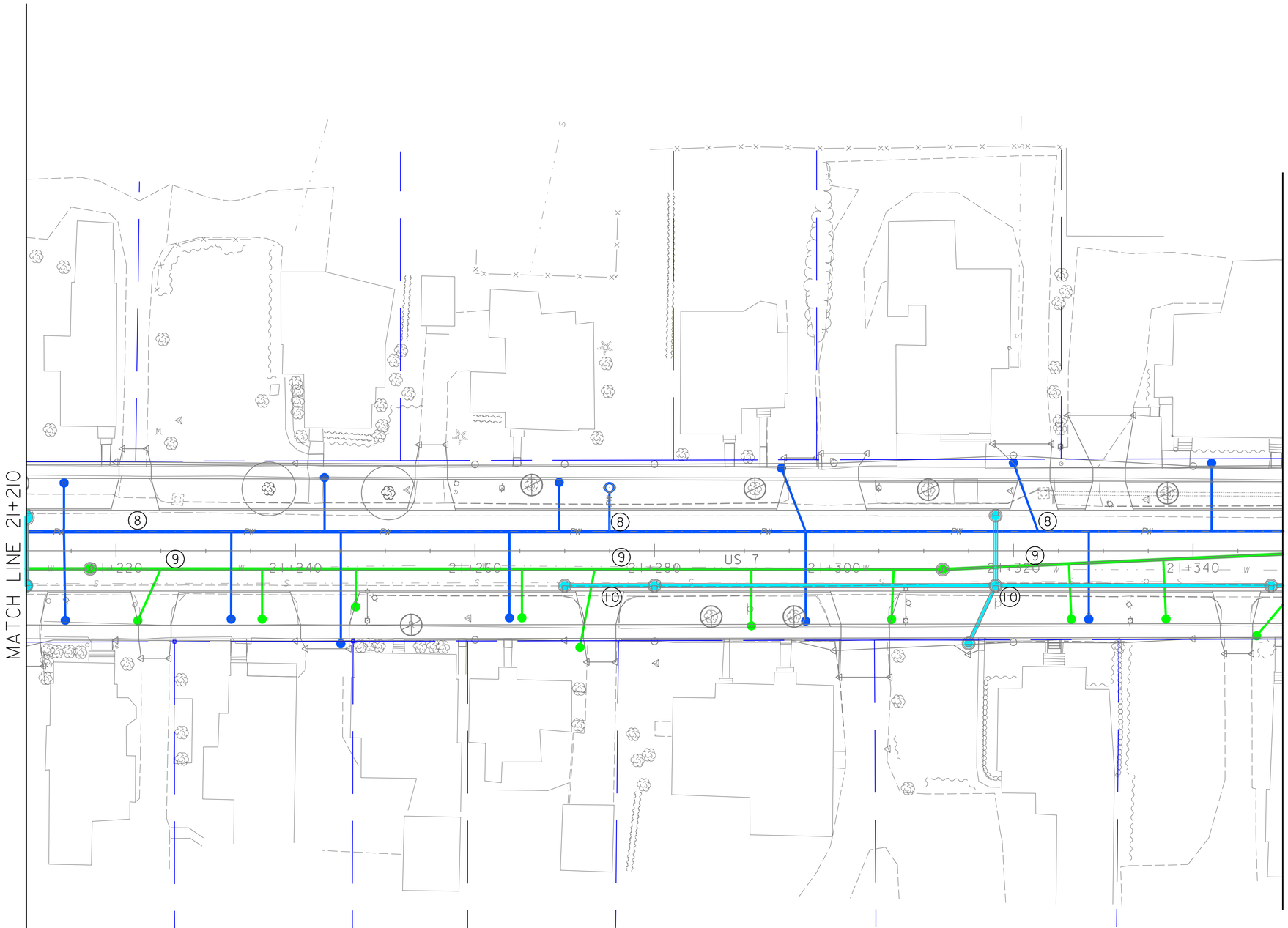
PROJECT NAME: BRANDON
PROJECT NUMBER: NH 019-3(496)

FILE NAME: zb008s6-tcp.dgn
PROJECT LEADER: C. BEAN
DESIGNED BY: J. FOWLER
PLOT DATE: 2/23/2017
DRAWN BY: J. FOWLER
CHECKED BY: J.FRYER
SHEET 390 OF 601

CLD 02-0448 MODEL: A-0-04

ISSUED FOR CONSTRUCTION

VAOT Metric



VT STATE PLANE GRID

N

CONSTRUCTION SEQUENCE

- 8. WATER
- 9. SEWER
- 10. DRAINAGE

0 10 20 30

SCALE IN METERS

SEGMENT A UTILITY PHASE TRAFFIC CONTROL PLAN 5

PROJECT NAME: BRANDON
PROJECT NUMBER: NH 019-3(496)

FILE NAME: zb008s6-tcp.dgn
PROJECT LEADER: C. BEAN
DESIGNED BY: J. FOWLER

PLOT DATE: 2/23/2017
DRAWN BY: J. FOWLER
CHECKED BY: J.FRYER
SHEET 391 OF 601

CLD 02-0448 MODEL: A-0-05

ISSUED FOR CONSTRUCTION

VT STATE PLANE GRID

N

VAOT Metric

CONSTRUCTION SEQUENCE

8. WATER

9. SEWER

10. DRAINAGE

AVOID/PROTECT EXISTING UNDERGROUND TELEPHONE

UTILITY POLE TO REMAIN IN PLACE UNTIL OVERHEAD UTILITIES UNDERGROUNDED

MATCH LINE 21+410

MATCH LINE 21+350

MATCH LINE 36+070

EXISTING UNDERGROUND TELEPHONE (TYP.)

SEE SEGMENT B UTILITY PHASE

36 + 120.000
LIMIT OF WORK

VT 73
TH-3

0 10 20 30

SCALE IN METERS

SEGMENT A UTILITY PHASE TRAFFIC CONTROL PLAN 6

PROJECT NAME: BRANDON

PROJECT NUMBER: NH 019-3(496)

FILE NAME: zb008s6-tcp.dgn
PROJECT LEADER: C. BEAN
DESIGNED BY: J. FOWLER

PLOT DATE: 2/23/2017
DRAWN BY: J. FOWLER
CHECKED BY: J.FRYER
SHEET 392 OF 601

CLD 02-0448 MODEL: A-0-06

ISSUED FOR CONSTRUCTION

VT STATE PLANE GRID

MATCH LINE 21+510

MATCH LINE 30+058

SEE SEGMENT B UTILITY PHASE

EXISTING UNDERGROUND TELEPHONE (TYP.)

MATCH LINE 21+410

MATCH LINE 36+070

SEE SEGMENT B UTILITY PHASE

CONSTRUCTION SEQUENCE

- 8. WATER
- 9. SEWER
- 10. DRAINAGE
- AVOID/PROTECT EXISTING UNDERGROUND TELEPHONE
- UTILITY POLE TO REMAIN IN PLACE UNTIL OVERHEAD UTILITIES UNDERGROUNDED

0 10 20 30

SCALE IN METERS

SEGMENT A UTILITY PHASE TRAFFIC CONTROL PLAN 7

PROJECT NAME: BRANDON
PROJECT NUMBER: NH 019-3(496)

FILE NAME: zb008s6-tcp.dgn
PROJECT LEADER: C. BEAN
DESIGNED BY: J. FOWLER

PLOT DATE: 2/23/2017
DRAWN BY: J. FOWLER
CHECKED BY: J.FRYER
SHEET 393 OF 601

CLD 02-0448 MODEL: A-0-07

ISSUED FOR CONSTRUCTION

VAOT Metric

VT STATE PLANE GRID N

SEGMENT A TRAFFIC CONTROL:
SEE ONE-WAY ALTERNATING TRAFFIC DETAILS ON TRAFFIC CONTROL DETAILS SHEETS

20+763 LT
BEGIN TEMPORARY WIDENING
FOR PHASE II TRAFFIC

20+735.617
BEGIN APPROACH

BRANDON FIRE STATION

20+778.000
END APPROACH
BEGIN PROJECT
NH 019-3(496)

PROVIDE ACCESS TO FIRE STATION. CONSTRUCTION IN FRONT OF DRIVEWAY SHALL BE PERFORMED IN STAGES SUCH THAT AT LEAST ONE HALF OF DRIVEWAY IS OPEN AT ALL TIMES.

STA. 20+752
BEGIN SEGMENT A
CONSTRUCTION

TYPE III BARRICADE

20+660
20+680
US 7
20+700
20+720
20+740
20+760
20+780
20+800

MATCH LINE 20+815

BRANDON AMERICAN LEGION

TRANSIT BUS STOP AT AMERICAN LEGION. MAINTAIN STOP LOCATION. MINOR RELOCATION TO ACCOMMODATE CONSTRUCTION ALLOWED WITH PRIOR APPROVAL OF RESIDENT ENGINEER AND NOTIFICATION TO THE TRANSIT COMPANY

COORDINATE WITH PROPERTY OWNER TO CLOSE THIS DRIVE TEMPORARILY WITH ACCESS FROM OTHER DRIVEWAY TO THE SOUTH, WHEN DRIVEWAY IS WITHIN ONE-WAY ALTERNATING TRAFFIC CONTROL OR PROVIDE ADDITIONAL FLAGGER AT DRIVEWAY.

20+762 RT
BEGIN TEMPORARY WIDENING
FOR PHASE I TRAFFIC

CONTRACTOR TO PROVIDE TEMPORARY ADJUSTMENT TO EXISTING DI TO DIRECT FLOW IN DITCH INTO DI. (INCIDENTAL TO TRAFFIC CONTROL).

POT 20+777.617 BK
POT 20+778.000 AHD =
EQ. = -0.383 m

LEGEND

- PHASE I CONSTRUCTION
- TEMPORARY WIDENING FOR PHASE I TRAFFIC
- TEMPORARY WIDENING FOR PHASE II TRAFFIC
- PHASE I TPAR
- PHASE I TRAFFIC
- CHANNELIZING DEVICES
- TPAR BARRIER WITH TL-2 END TREATMENT
- TEMPORARY CONCRETE BARRIER WITH ATTENUATOR
- TEMPORARY CENTERLINE
- TEMPORARY EDGE LINE
- LIMIT OF SHIFTED TRAFFIC AREA (INCL. BARRELS/BARRIER)
- FLAGGER STATION (MOVES DAILY AS CONSTRUCTION PROGRESSES)
- TEMPORARY CONSTRUCTION LIMITS

0 10 20 30
SCALE IN METERS

SEGMENT A PHASE I TRAFFIC CONTROL PLAN I

PROJECT NAME: BRANDON
PROJECT NUMBER: NH 019-3(496)

FILE NAME: zb008s6-tcp.dgn
PROJECT LEADER: C. BEAN
DESIGNED BY: J. FOWLER
PLOT DATE: 2/23/2017
DRAWN BY: J. FOWLER
CHECKED BY: J.FRYER
SHEET 394 OF 601

CLD 02-0448 MODEL: A-1-01

ISSUED FOR CONSTRUCTION

VAOT Metric

VT STATE PLANE GRID

PROVIDE ACCESS TO BUSINESSES/ RESIDENCES THROUGH CONSTRUCTION AREA. DURING CONSTRUCTION IN FRONT OF DRIVEWAYS, COORDINATE WITH PROPERTY OWNER FOR TEMPORARY ALTERNATE ACCESS/PARKING.

ALTERNATE TPAR LOCATION FOR SHORT-TERM DAYTIME RELOCATION DURING ACTIVE CONSTRUCTION OPERATIONS TO FACILITATE UNDERDRAIN AND ROADBOX INSTALLATION ON LEFT SIDE. CONTRACTOR SHALL USE APPROPRIATE SIGNAGE AND PROTECTION. TPAR SHALL BE RELOCATED BACK TO LEFT SIDE OF WORK AREA DAILY AT THE CLOSE OF CONSTRUCTION ACTIVITIES. SEE TPAR REQUIREMENTS SHEET 382 AND 384.

SEGMENT A TRAFFIC CONTROL:
SEE ONE-WAY ALTERNATING TRAFFIC DETAILS ON TRAFFIC CONTROL DETAILS SHEETS

MATCH LINE 20+815

MATCH LINE 20+950

PHASE I SIDEWALK

US 7

20+820 PW

20+840 PW

20+860 PW

20+880 PW

20+900 PW

20+920 PW

20+940 PW

BRANDON FIRE DISTRICT

20+883 RT
STOP TEMPORARY WIDENING
FOR PHASE I TRAFFIC

20+899 RT
RESUME TEMPORARY WIDENING
FOR PHASE I TRAFFIC

40+020 PW

40+040 PW

40+060 PW

HIGH ST
TH-62

STOP

40 + 070.000
LIMIT OF WORK

LEGEND

- PHASE I CONSTRUCTION
- TEMPORARY WIDENING FOR PHASE I TRAFFIC
- TEMPORARY WIDENING FOR PHASE II TRAFFIC
- PHASE I TPAR
- PHASE I TRAFFIC
- CHANNELIZING DEVICES
- TPAR BARRIER WITH TL-2 END TREATMENT
- TEMPORARY CONCRETE BARRIER WITH ATTENTUATOR
- TEMPORARY CENTERLINE
- TEMPORARY EDGE LINE
- LIMIT OF SHIFTED TRAFFIC AREA (INCL. BARRELS/BARRIER)
- FLAGGER STATION (MOVES DAILY AS CONSTRUCTION PROGRESSES)
- TEMPORARY CONSTRUCTION LIMITS

0 10 20 30
SCALE IN METERS

SEGMENT A PHASE I TRAFFIC CONTROL PLAN 2

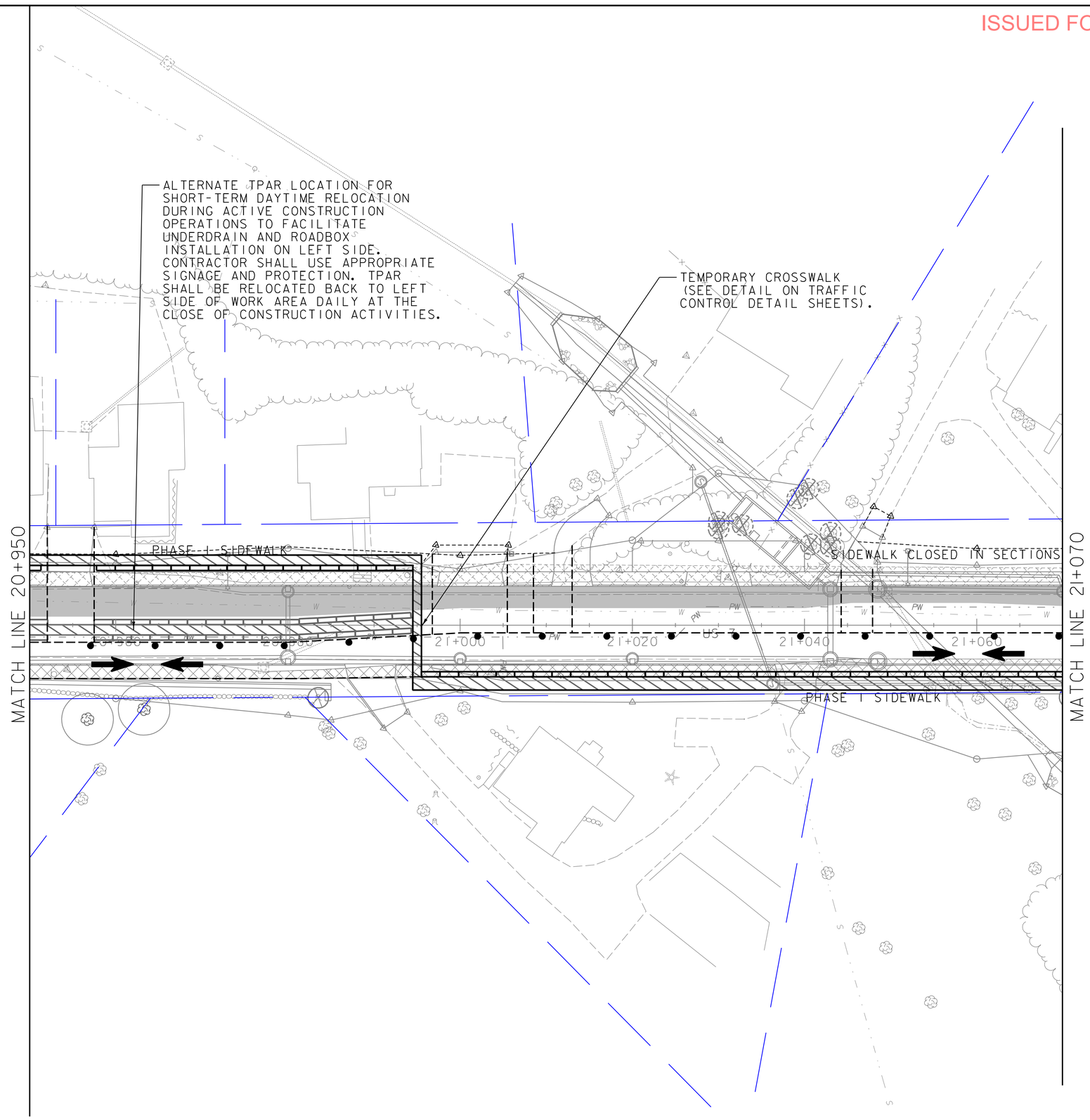
PROJECT NAME: BRANDON
PROJECT NUMBER: NH 019-3(496)

FILE NAME: zb008s6-tcp.dgn
PROJECT LEADER: C. BEAN
DESIGNED BY: J. FOWLER
PLOT DATE: 2/23/2017
DRAWN BY: J. FOWLER
CHECKED BY: J.FRYER
SHEET 395 OF 601

CLD 02-0448 MODEL: A-1-02

ISSUED FOR CONSTRUCTION

VAOT Metric



SEGMENT A TRAFFIC CONTROL:
SEE ONE-WAY ALTERNATING TRAFFIC DETAILS ON TRAFFIC CONTROL DETAILS SHEETS

LEGEND

- PHASE I CONSTRUCTION
- TEMPORARY WIDENING FOR PHASE I TRAFFIC
- TEMPORARY WIDENING FOR PHASE II TRAFFIC
- PHASE I TPAR
- PHASE I TRAFFIC
- CHANNELIZING DEVICES
- TPAR BARRIER WITH TL-2 END TREATMENT
- TEMPORARY CONCRETE BARRIER WITH ATTENTUATOR
- TEMPORARY CENTERLINE
- TEMPORARY EDGE LINE
- LIMIT OF SHIFTED TRAFFIC AREA (INCL. BARRELS/BARRIER)
- FLAGGER STATION (MOVES DAILY AS CONSTRUCTION PROGRESSES)
- TEMPORARY CONSTRUCTION LIMITS

0 10 20 30
SCALE IN METERS

SEGMENT A PHASE I TRAFFIC CONTROL PLAN 3

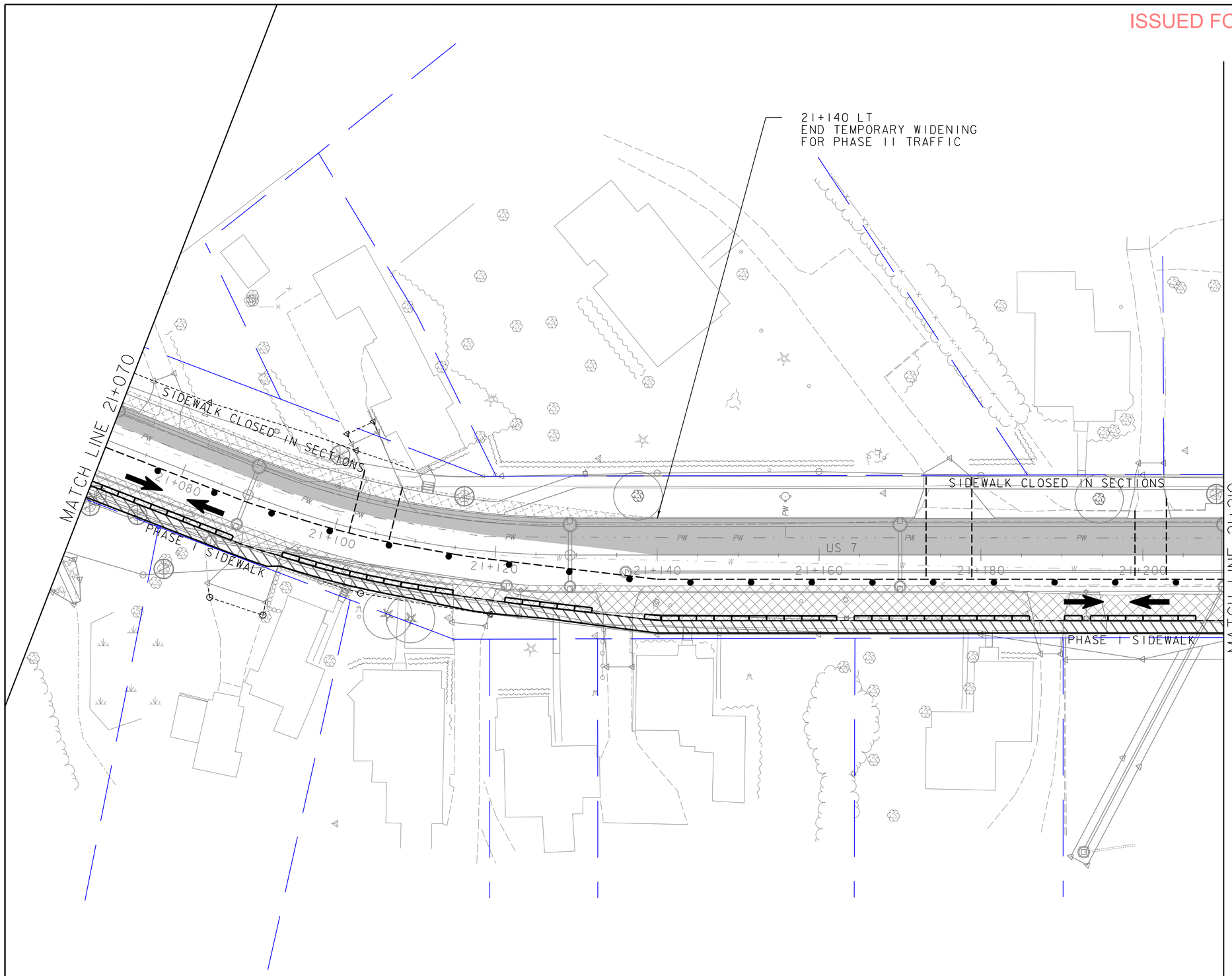
PROJECT NAME: BRANDON
PROJECT NUMBER: NH 019-3(496)

FILE NAME: zb008s6-tcp.dgn
PROJECT LEADER: C. BEAN
DESIGNED BY: J. FOWLER
PLOT DATE: 2/23/2017
DRAWN BY: J. FOWLER
CHECKED BY: J.FRYER
SHEET 396 OF 601

CLD 02-0448 MODEL: A-1-03

ISSUED FOR CONSTRUCTION

VAOT Metric



SEGMENT A TRAFFIC CONTROL:
SEE ONE-WAY ALTERNATING TRAFFIC DETAILS ON TRAFFIC CONTROL DETAILS SHEETS

LEGEND

- PHASE I CONSTRUCTION
- TEMPORARY WIDENING FOR PHASE I TRAFFIC
- TEMPORARY WIDENING FOR PHASE II TRAFFIC
- PHASE I TPAR
- PHASE I TRAFFIC
- CHANNELIZING DEVICES
- TPAR BARRIER WITH TL-2 END TREATMENT
- TEMPORARY CONCRETE BARRIER WITH ATTENTUATOR
- TEMPORARY CENTERLINE
- TEMPORARY EDGE LINE
- LIMIT OF SHIFTED TRAFFIC AREA (INCL. BARRELS/BARRIER)
- FLAGGER STATION (MOVES DAILY AS CONSTRUCTION PROGRESSES)
- TEMPORARY CONSTRUCTION LIMITS

0 10 20 30
SCALE IN METERS

SEGMENT A PHASE I TRAFFIC CONTROL PLAN 4

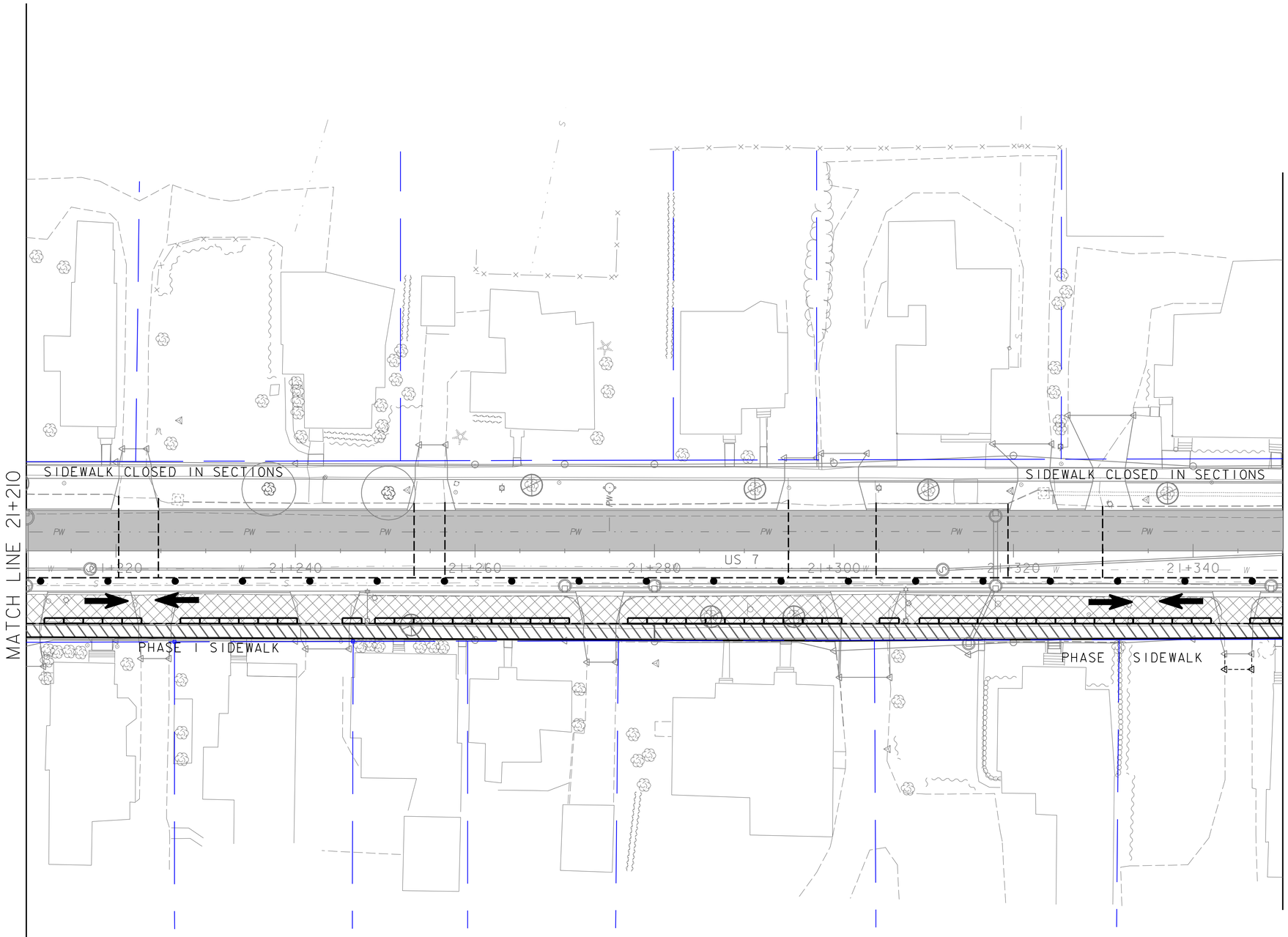
PROJECT NAME: BRANDON
PROJECT NUMBER: NH 019-3(496)

FILE NAME: zb008s6-tcp.dgn
PROJECT LEADER: C. BEAN
DESIGNED BY: J. FOWLER
PLOT DATE: 2/23/2017
DRAWN BY: J. FOWLER
CHECKED BY: J.FRYER
SHEET 397 OF 601

CLD 02-0448 MODEL: A-1-04

ISSUED FOR CONSTRUCTION

VAOT Metric



SEGMENT A TRAFFIC CONTROL:
SEE ONE-WAY ALTERNATING TRAFFIC DETAILS ON TRAFFIC CONTROL DETAILS SHEETS

LEGEND

- PHASE I CONSTRUCTION
- TEMPORARY WIDENING FOR PHASE I TRAFFIC
- TEMPORARY WIDENING FOR PHASE II TRAFFIC
- PHASE I TPAR
- PHASE I TRAFFIC
- CHANNELIZING DEVICES
- TPAR BARRIER WITH TL-2 END TREATMENT
- TEMPORARY CONCRETE BARRIER WITH ATTENTUATOR
- TEMPORARY CENTERLINE
- TEMPORARY EDGE LINE
- LIMIT OF SHIFTED TRAFFIC AREA (INCL. BARRELS/BARRIER)
- FLAGGER STATION (MOVES DAILY AS CONSTRUCTION PROGRESSES)
- TEMPORARY CONSTRUCTION LIMITS

0 10 20 30
SCALE IN METERS

SEGMENT A PHASE I TRAFFIC CONTROL PLAN 5

PROJECT NAME: BRANDON
PROJECT NUMBER: NH 019-3(496)

FILE NAME: zb008s6-tcp.dgn
PROJECT LEADER: C. BEAN
DESIGNED BY: J. FOWLER

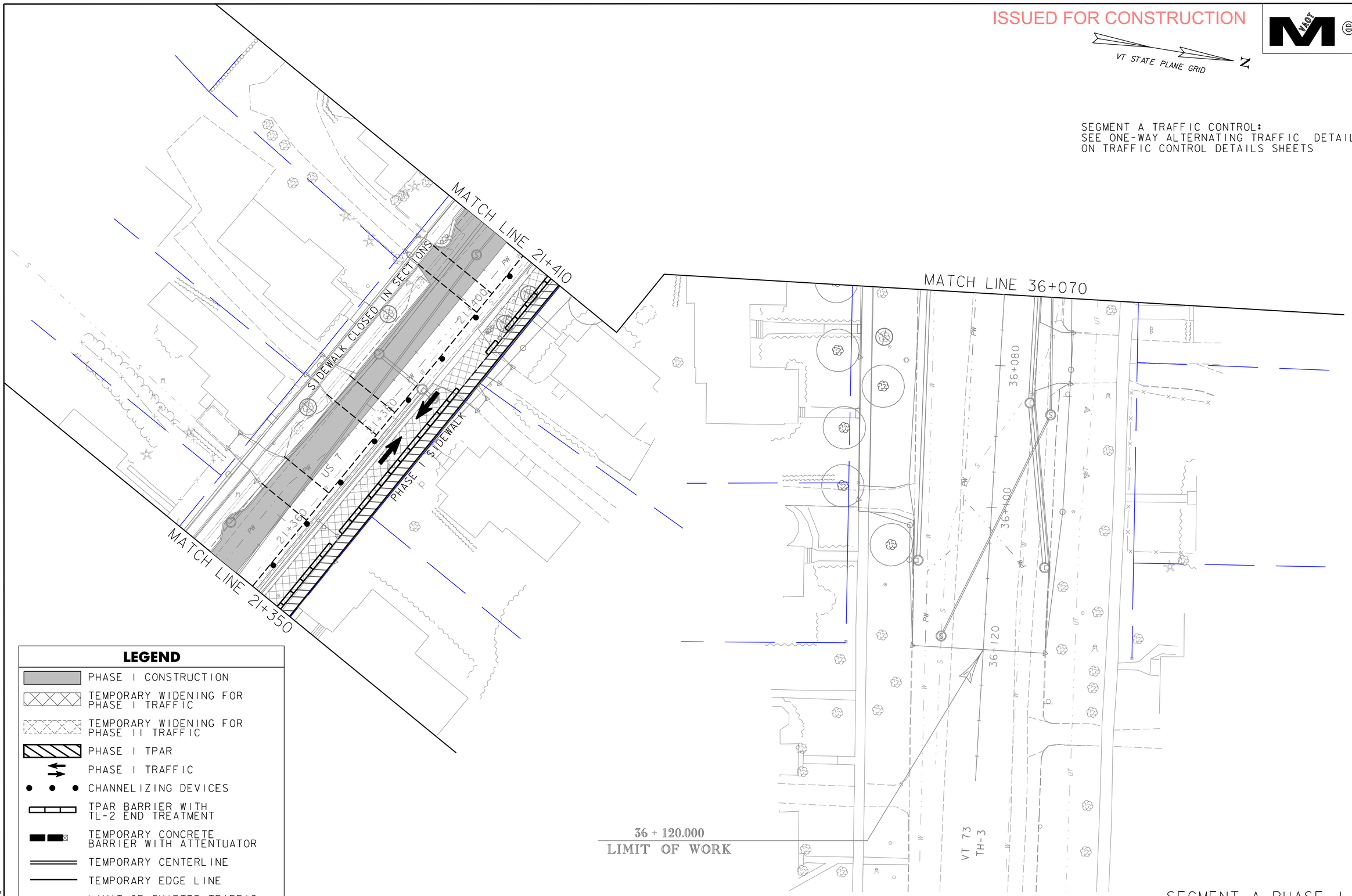
PLOT DATE: 2/23/2017
DRAWN BY: J. FOWLER
CHECKED BY: J.FRYER
SHEET 398 OF 601

CLD 02-0448 MODEL: A-1-05

ISSUED FOR CONSTRUCTION

VT STATE PLANE GRID

SEGMENT A TRAFFIC CONTROL:
SEE ONE-WAY ALTERNATING TRAFFIC DETAILS
ON TRAFFIC CONTROL DETAILS SHEETS



LEGEND

- PHASE I CONSTRUCTION
- TEMPORARY WIDENING FOR PHASE I TRAFFIC
- TEMPORARY WIDENING FOR PHASE II TRAFFIC
- PHASE I TPAR
- PHASE I TRAFFIC
- CHANNELIZING DEVICES
- TPAR BARRIER WITH TL-2 END TREATMENT
- TEMPORARY CONCRETE BARRIER WITH ATTENTUATOR
- TEMPORARY CENTERLINE
- TEMPORARY EDGE LINE
- LIMIT OF SHIFTED TRAFFIC AREA (INCL. BARRELS/BARRIER)
- FLAGGER STATION (MOVES DAILY AS CONSTRUCTION PROGRESSES)
- TEMPORARY CONSTRUCTION LIMITS

0 10 20 30

SCALE IN METERS

SEGMENT A PHASE I TRAFFIC CONTROL PLAN 6

PROJECT NAME: BRANDON
PROJECT NUMBER: NH 019-3(496)

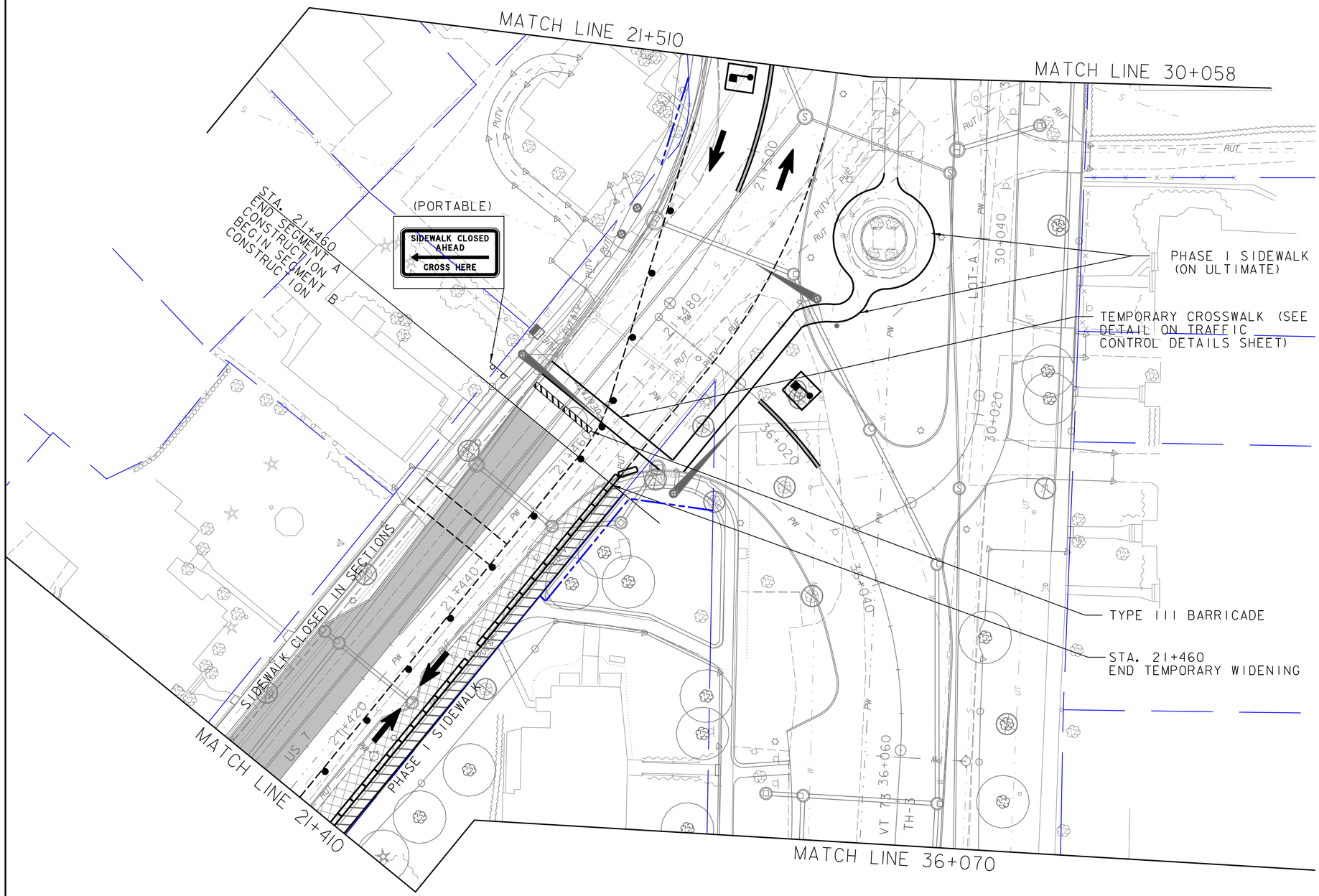
FILE NAME: zb008s6-tcp.dgn
PROJECT LEADER: C. BEAN
DESIGNED BY: J. FOWLER

PLOT DATE: 2/23/2017
DRAWN BY: J. FOWLER
CHECKED BY: J.FRYER
SHEET 399 OF 601

CLD 02-0448 MODEL: A-1-06

ISSUED FOR CONSTRUCTION

VT STATE PLANE GRID



SEGMENT A TRAFFIC CONTROL:
SEE ONE-WAY ALTERNATING TRAFFIC DETAILS ON TRAFFIC CONTROL DETAILS SHEETS

NOTES:
1. SIGNALS WILL BE PLACED IN FLASHER MODE DURING DAYTIME ONE-WAY ALTERNATING TRAFFIC PATTERN WHEN SEGMENT A WORK PROGRESSES TO VICINITY OF SIGNALIZED INTERSECTION.

LEGEND

- PHASE I CONSTRUCTION
- TEMPORARY WIDENING FOR PHASE I TRAFFIC
- TEMPORARY WIDENING FOR PHASE II TRAFFIC
- PHASE I TPAR
- PHASE I TRAFFIC
- CHANNELIZING DEVICES
- TPAR BARRIER WITH TL-2 END TREATMENT
- TEMPORARY CONCRETE BARRIER WITH ATTENTUATOR
- TEMPORARY CENTERLINE
- TEMPORARY EDGE LINE
- LIMIT OF SHIFTED TRAFFIC AREA (INCL. BARRELS/BARRIER)
- FLAGGER STATION (MOVES DAILY AS CONSTRUCTION PROGRESSES)
- TEMPORARY CONSTRUCTION LIMITS

0 10 20 30

SCALE IN METERS

SEGMENT A PHASE I TRAFFIC CONTROL PLAN 7

PROJECT NAME: BRANDON
PROJECT NUMBER: NH 019-3(496)

FILE NAME: zb0085s6-tcp.dgn
PROJECT LEADER: C. BEAN
DESIGNED BY: J. FOWLER
PLOT DATE: 2/23/2017
DRAWN BY: J. FOWLER
CHECKED BY: J.FRYER
SHEET 400 OF 601

CLD 02-0448 MODEL: A-1-07

ISSUED FOR CONSTRUCTION

VAOT Metric

VT STATE PLANE GRID

N

SEGMENT A TRAFFIC CONTROL:
SEE ONE-WAY ALTERNATING TRAFFIC DETAILS ON TRAFFIC CONTROL DETAILS SHEETS

20 + 735.617
BEGIN APPROACH

BRANDON FIRE STATION

20 + 778.000
END APPROACH
BEGIN PROJECT
NH 019-3(496)

STA. 20+752
BEGIN SEGMENT A
CONSTRUCTION

20+660
20+680
US 7
20+700
20+720
20+740
20+760
20+780
20+800
20+815

MATCH LINE 20+815

BRANDON AMERICAN LEGION

TRANSIT BUS STOP AT AMERICAN LEGION. MAINTAIN STOP LOCATION. MINOR RELOCATION TO ACCOMMODATE CONSTRUCTION ALLOWED WITH PRIOR APPROVAL OF RESIDENT ENGINEER AND NOTIFICATION TO THE TRANSIT COMPANY

TYPE III BARRICADE

PROVIDE ACCESS TO BUSINESSES/ RESIDENCES THROUGH CONSTRUCTION AREA. DURING CONSTRUCTION IN FRONT OF DRIVEWAYS, COORDINATE WITH PROPERTY OWNER FOR TEMPORARY ALTERNATE ACCESS/PARKING.

POT 20+777.617 BK
POT 20+778.000 AHD =
EQ. = -0.383 m

LEGEND

- PHASE II CONSTRUCTION
- PHASE 2 TPAR
- PHASE II TRAFFIC
- CHANNELIZING DEVICES
- TPAR BARRIER WITH TL-2 END TREATMENT
- TEMPORARY CONCRETE BARRIER WITH ATTENUATOR
- TEMPORARY CENTERLINE
- TEMPORARY EDGELINE
- LIMIT OF SHIFTED TRAFFIC AREA (INCL. BARRELS/BARRIER)
- FLAGGER STATION (MOVES DAILY AS CONSTRUCTION PROGRESSES)
- TEMPORARY CONSTRUCTION LIMITS

0 10 20 30
SCALE IN METERS

SEGMENT A PHASE II TRAFFIC CONTROL PLAN I

PROJECT NAME: BRANDON
PROJECT NUMBER: NH 019-3(496)

FILE NAME: zb008s6-tcp.dgn
PROJECT LEADER: C. BEAN
DESIGNED BY: J. FOWLER

PLOT DATE: 2/23/2017
DRAWN BY: J. FOWLER
CHECKED BY: J.FRYER
SHEET 401 OF 601

CLD 02-0448 MODEL: A-II-01

ISSUED FOR CONSTRUCTION

VAOT Metric

VT STATE PLANE GRID

SEGMENT A TRAFFIC CONTROL:
SEE ONE-WAY ALTERNATING TRAFFIC DETAILS ON TRAFFIC CONTROL DETAILS SHEETS

NOTES:
1. EXISTING HIGH STREET SIDEWALK TO REMAIN OPEN DURING CONSTRUCTION OF ROADWAY AND PORTIONS OF SIDEWALK ON NEW ALIGNMENTS. TPAR SHALL BE ESTABLISHED WHEN SIDEWALK IS CLOSED FOR CONSTRUCTION OF PORTION ON THE EXISTING SIDEWALK ALIGNMENT. FOR LIMITED TIME WINDOWS DURING ACTIVE CONSTRUCTION, A DEDICATED PEDESTRIAN ESCORT CAN BE ASSIGNED IF TPAR CAN NOT BE SAFELY ESTABLISHED. TPAR SHALL BE ESTABLISHED AT THE END OF EACH WORKING PERIOD. DETAILS SHALL BE PROVIDED IN CONSTRACTOR'S TRAFFIC CONTROL PLAN FOR REVIEW AND APPROVAL BY THE RESIDENT ENGINEER.

MATCH LINE 20+815

MATCH LINE 20+950

PHASE II SIDEWALK

US 7

20+820 20+840 20+860 20+880 20+900 20+920 20+940

BRANDON FIRE DISTRICT

(PORTABLE)
SIDEWALK CLOSED
SEE NOTE 1

40+020 40+040 40+060

HIGH ST
TH-62

HIGH STREET:
CONTRACTOR MAY ELLECT TO UTILIZE TEMPORARY CLOSURE DURING CONSTRUCTION OF US 7 WITHIN INTERSECTION AND DURING CONSTRUCTION OF HIGH STREET. ACCESS TO HIGH STREET VIA VT 73 DETOUR. CONTRACTOR SHALL PROVIDE SPECIFIC DETOUR PLANS FOR UPDATED TRAFFIC MANAGEMENT STRATEGIES. SEE CONSTRUCTION APPROACH SIGNING DETAIL FOR ADDITIONAL SIGNING REQUIREMENTS.

40 + 070.000
LIMIT OF WORK

LEGEND

- PHASE II CONSTRUCTION
- PHASE 2 TPAR
- PHASE II TRAFFIC
- CHANNELIZING DEVICES
- TPAR BARRIER WITH TL-2 END TREATMENT
- TEMPORARY CONCRETE BARRIER WITH ATTENUATOR
- TEMPORARY CENTERLINE
- TEMPORARY EDGELINE
- LIMIT OF SHIFTED TRAFFIC AREA (INCL. BARRELS/BARRIER)
- FLAGGER STATION (MOVES DAILY AS CONSTRUCTION PROGRESSES)
- TEMPORARY CONSTRUCTION LIMITS

0 10 20 30
SCALE IN METERS

SEGMENT A PHASE II TRAFFIC CONTROL PLAN 2

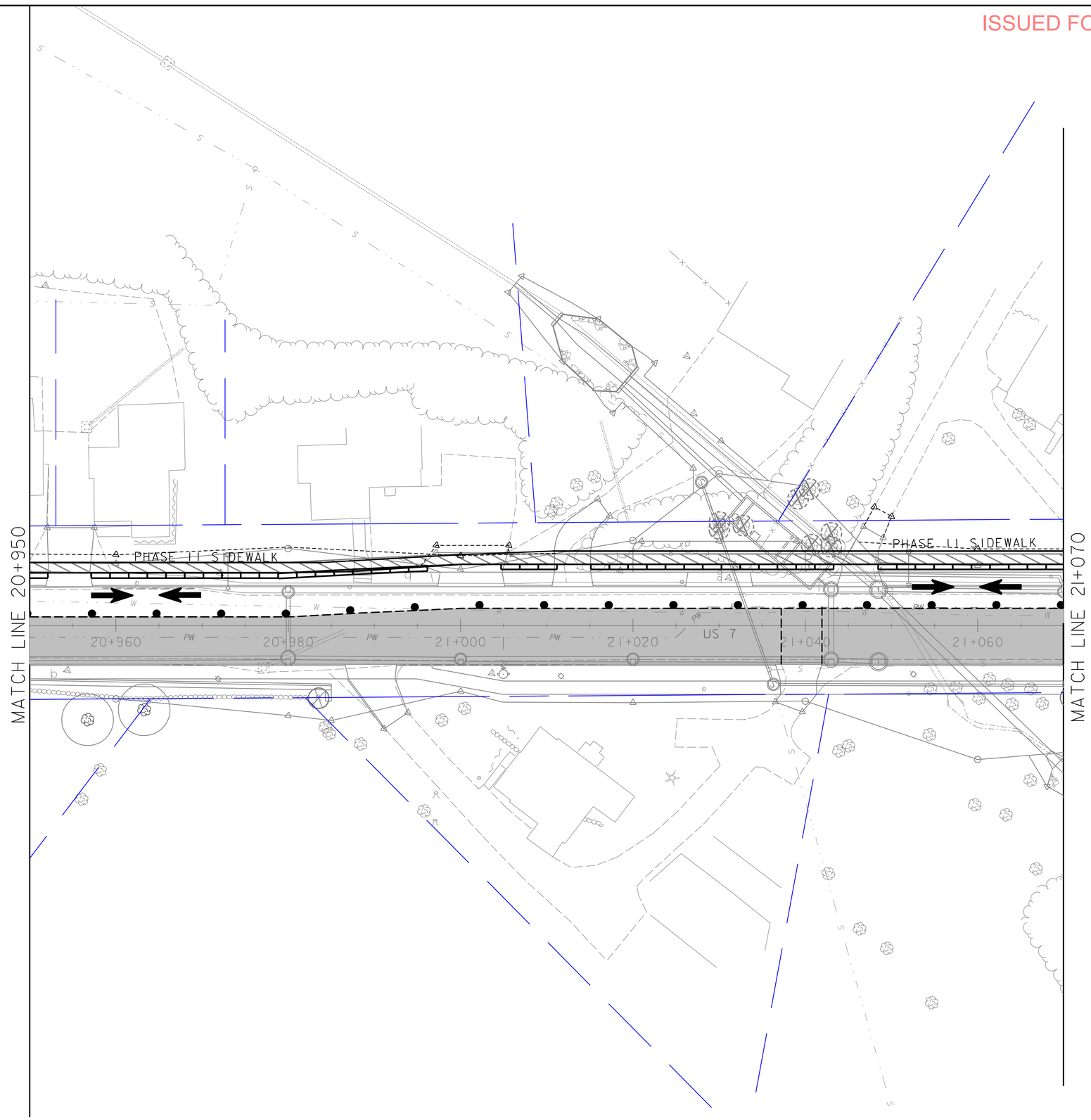
PROJECT NAME: BRANDON
PROJECT NUMBER: NH 019-3(496)

FILE NAME: zb008s6-tcp.dgn
PROJECT LEADER: C. BEAN
DESIGNED BY: J. FOWLER
PLOT DATE: 2/23/2017
DRAWN BY: J. FOWLER
CHECKED BY: J.FRYER
SHEET 402 OF 601

CLD 02-0448 MODEL: A-II-02

ISSUED FOR CONSTRUCTION

VAOT Metric



VT STATE PLANE GRID

SEGMENT A TRAFFIC CONTROL:
SEE ONE-WAY ALTERNATING TRAFFIC DETAILS ON TRAFFIC CONTROL DETAILS SHEETS

LEGEND

- PHASE II CONSTRUCTION
- PHASE 2 TPAR
- PHASE II TRAFFIC
- CHANNELIZING DEVICES
- TPAR BARRIER WITH TL-2 END TREATMENT
- TEMPORARY CONCRETE BARRIER WITH ATTENUATOR
- TEMPORARY CENTERLINE
- TEMPORARY EDGELINE
- LIMIT OF SHIFTED TRAFFIC AREA (INCL. BARRELS/BARRIER)
- FLAGGER STATION (MOVES DAILY AS CONSTRUCTION PROGRESSES)
- TEMPORARY CONSTRUCTION LIMITS

0 10 20 30

SCALE IN METERS

SEGMENT A PHASE II TRAFFIC CONTROL PLAN 3

PROJECT NAME: BRANDON
PROJECT NUMBER: NH 019-3(496)

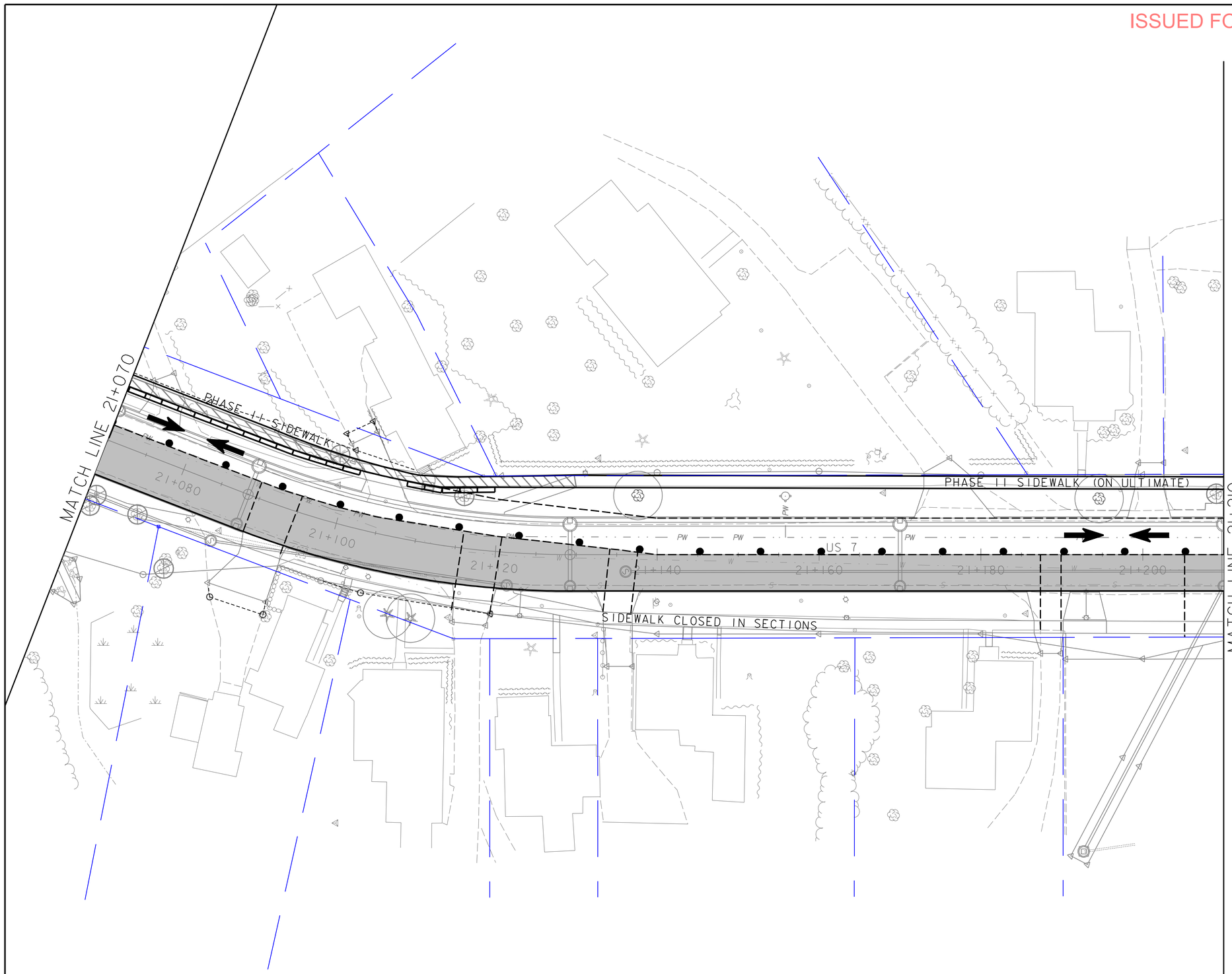
FILE NAME: zb0088s6-tcp.dgn
PROJECT LEADER: C. BEAN
DESIGNED BY: J. FOWLER

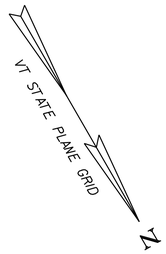
PLOT DATE: 2/23/2017
DRAWN BY: J. FOWLER
CHECKED BY: J.FRYER
SHEET 403 OF 601

CLD 02-0448 MODEL: A-II-03

ISSUED FOR CONSTRUCTION

VAOT Metric





SEGMENT A TRAFFIC CONTROL:
SEE ONE-WAY ALTERNATING TRAFFIC DETAILS ON TRAFFIC CONTROL DETAILS SHEETS

LEGEND

- PHASE II CONSTRUCTION
- PHASE 2 TPAR
- PHASE II TRAFFIC
- CHANNELIZING DEVICES
- TPAR BARRIER WITH TL-2 END TREATMENT
- TEMPORARY CONCRETE BARRIER WITH ATTENUATOR
- TEMPORARY CENTERLINE
- TEMPORARY EDGELINE
- LIMIT OF SHIFTED TRAFFIC AREA (INCL. BARRELS/BARRIER)
- FLAGGER STATION (MOVES DAILY AS CONSTRUCTION PROGRESSES)
- TEMPORARY CONSTRUCTION LIMITS

0 10 20 30

SCALE IN METERS

SEGMENT A PHASE II TRAFFIC CONTROL PLAN 4

PROJECT NAME: BRANDON
PROJECT NUMBER: NH 019-3(496)

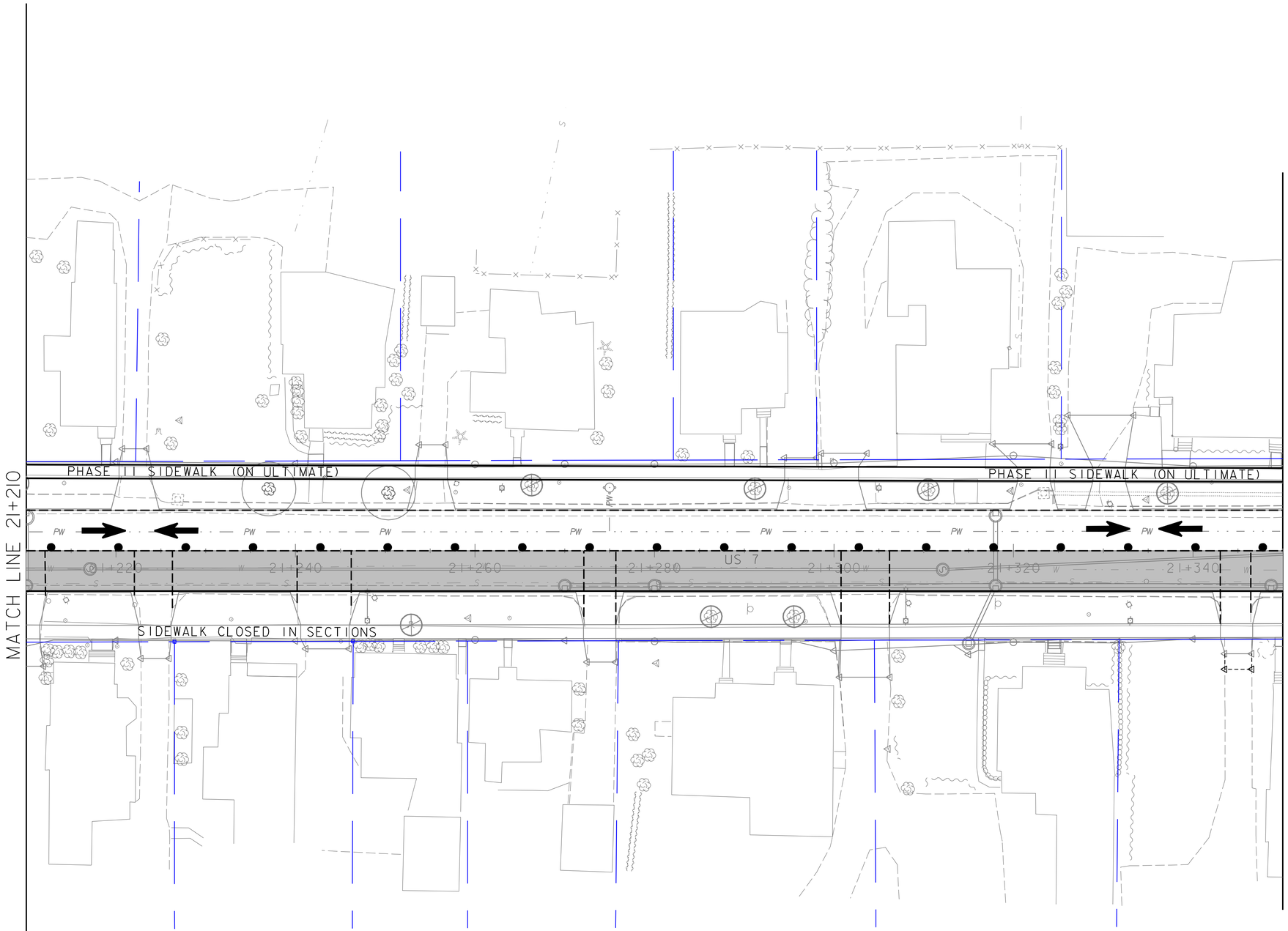
FILE NAME: zb008s6-tcp.dgn
PROJECT LEADER: C. BEAN
DESIGNED BY: J. FOWLER

PLOT DATE: 2/23/2017
DRAWN BY: J. FOWLER
CHECKED BY: J.FRYER
SHEET 404 OF 601

CLD 02-0448 MODEL: A-II-04

ISSUED FOR CONSTRUCTION

VAOT Metric



VT STATE PLANE GRID

N

SEGMENT A TRAFFIC CONTROL:
SEE ONE-WAY ALTERNATING TRAFFIC DETAILS ON TRAFFIC CONTROL DETAILS SHEETS

LEGEND

- PHASE II CONSTRUCTION
- PHASE 2 TPAR
- PHASE II TRAFFIC
- CHANNELIZING DEVICES
- TPAR BARRIER WITH TL-2 END TREATMENT
- TEMPORARY CONCRETE BARRIER WITH ATTENUATOR
- TEMPORARY CENTERLINE
- TEMPORARY EDGELINE
- LIMIT OF SHIFTED TRAFFIC AREA (INCL. BARRELS/BARRIER)
- FLAGGER STATION (MOVES DAILY AS CONSTRUCTION PROGRESSES)
- TEMPORARY CONSTRUCTION LIMITS

0 10 20 30

SCALE IN METERS

SEGMENT A PHASE II TRAFFIC CONTROL PLAN 5

PROJECT NAME: BRANDON
PROJECT NUMBER: NH 019-3(496)

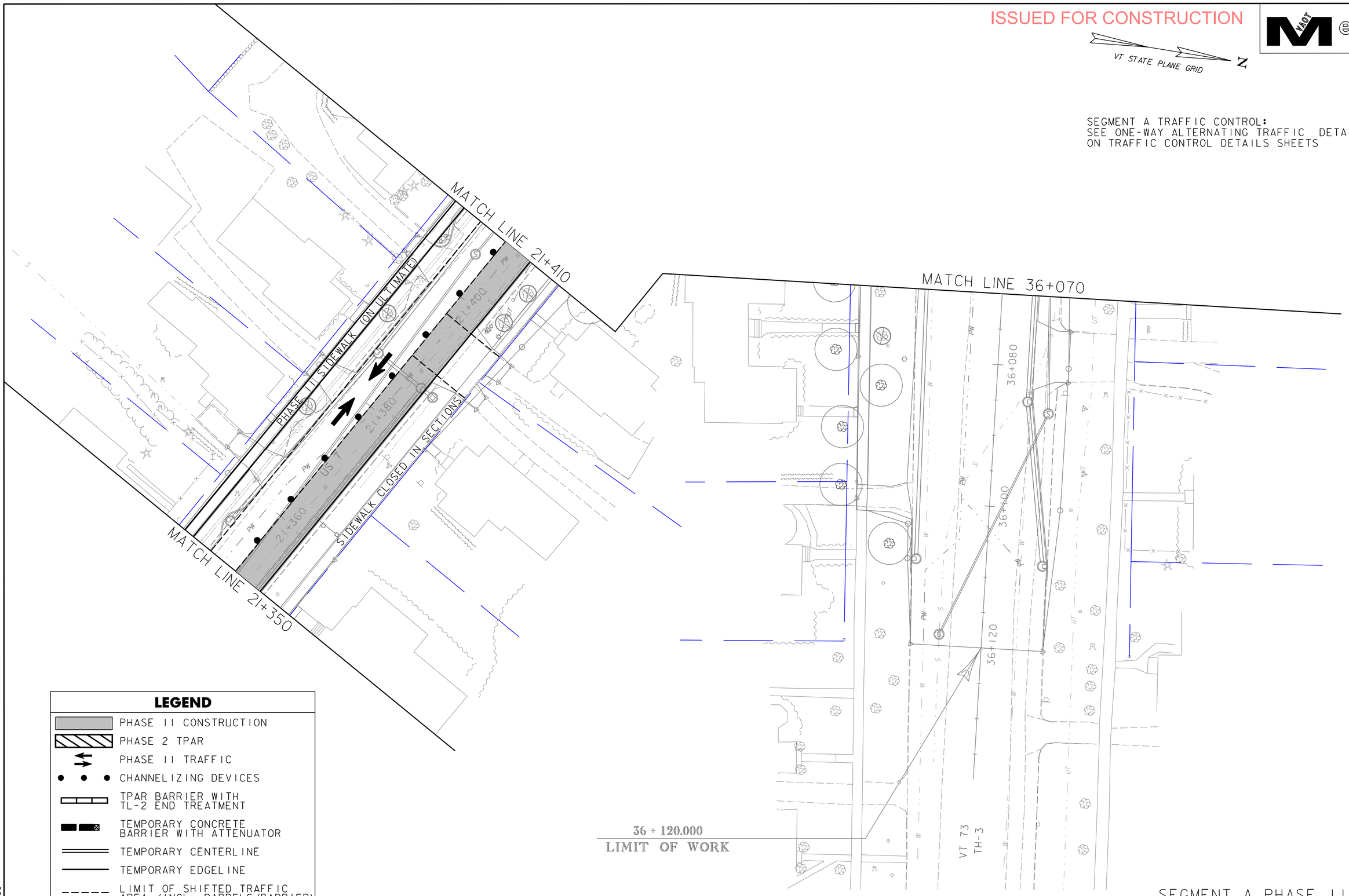
FILE NAME: zb008s6-tcp.dgn
PROJECT LEADER: C. BEAN
DESIGNED BY: J. FOWLER
PLOT DATE: 2/23/2017
DRAWN BY: J. FOWLER
CHECKED BY: J.FRYER
SHEET 405 OF 601

CLD 02-0448 MODEL: A-II-05

ISSUED FOR CONSTRUCTION

VT STATE PLANE GRID N

SEGMENT A TRAFFIC CONTROL:
SEE ONE-WAY ALTERNATING TRAFFIC DETAILS
ON TRAFFIC CONTROL DETAILS SHEETS



LEGEND

- PHASE II CONSTRUCTION
- PHASE 2 TPAR
- PHASE II TRAFFIC
- CHANNELIZING DEVICES
- TPAR BARRIER WITH TL-2 END TREATMENT
- TEMPORARY CONCRETE BARRIER WITH ATTENUATOR
- TEMPORARY CENTERLINE
- TEMPORARY EDGELINE
- LIMIT OF SHIFTED TRAFFIC AREA (INCL. BARRELS/BARRIER)
- FLAGGER STATION (MOVES DAILY AS CONSTRUCTION PROGRESSES)
- TEMPORARY CONSTRUCTION LIMITS

0 10 20 30
SCALE IN METERS

SEGMENT A PHASE II TRAFFIC CONTROL PLAN 6

PROJECT NAME: BRANDON
PROJECT NUMBER: NH 019-3(496)

FILE NAME: zb008s6-tcp.dgn
PROJECT LEADER: C. BEAN
DESIGNED BY: J. FOWLER
PLOT DATE: 2/23/2017
DRAWN BY: J. FOWLER
CHECKED BY: J.FRYER
SHEET 406 OF 601

CLD 02-0448 MODEL: A-II-06

ISSUED FOR CONSTRUCTION

VAOT Metric

VT STATE PLANE GRID

SEGMENT A TRAFFIC CONTROL:
SEE ONE-WAY ALTERNATING TRAFFIC DETAILS ON TRAFFIC CONTROL DETAILS SHEETS

NOTES:
1. SIGNALS WILL BE PLACED IN FLASHER MODE DURING DAYTIME ONE-WAY ALTERNATING TRAFFIC PATTERN WHEN SEGMENT A WORK PROGRESSES TO VICINITY OF SIGNALIZED INTERSECTION.

LEGEND

- PHASE II CONSTRUCTION
- PHASE 2 TPAR
- PHASE II TRAFFIC
- CHANNELIZING DEVICES
- TPAR BARRIER WITH TL-2 END TREATMENT
- TEMPORARY CONCRETE BARRIER WITH ATTENUATOR
- TEMPORARY CENTERLINE
- TEMPORARY EDGELINE
- LIMIT OF SHIFTED TRAFFIC AREA (INCL. BARRELS/BARRIER)
- FLAGGER STATION (MOVES DAILY AS CONSTRUCTION PROGRESSES)
- TEMPORARY CONSTRUCTION LIMITS

0 10 20 30

SCALE IN METERS

SEGMENT A PHASE II TRAFFIC CONTROL PLAN 7

PROJECT NAME: BRANDON
PROJECT NUMBER: NH 019-3(496)

FILE NAME: zb008s6-tcp.dgn
PROJECT LEADER: C. BEAN
DESIGNED BY: J. FOWLER
PLOT DATE: 2/23/2017
DRAWN BY: J. FOWLER
CHECKED BY: J.FRYER
SHEET 407 OF 601

CLD 02-0448 MODEL: A-II-07

ISSUED FOR CONSTRUCTION

VAOT Metric

GENERAL

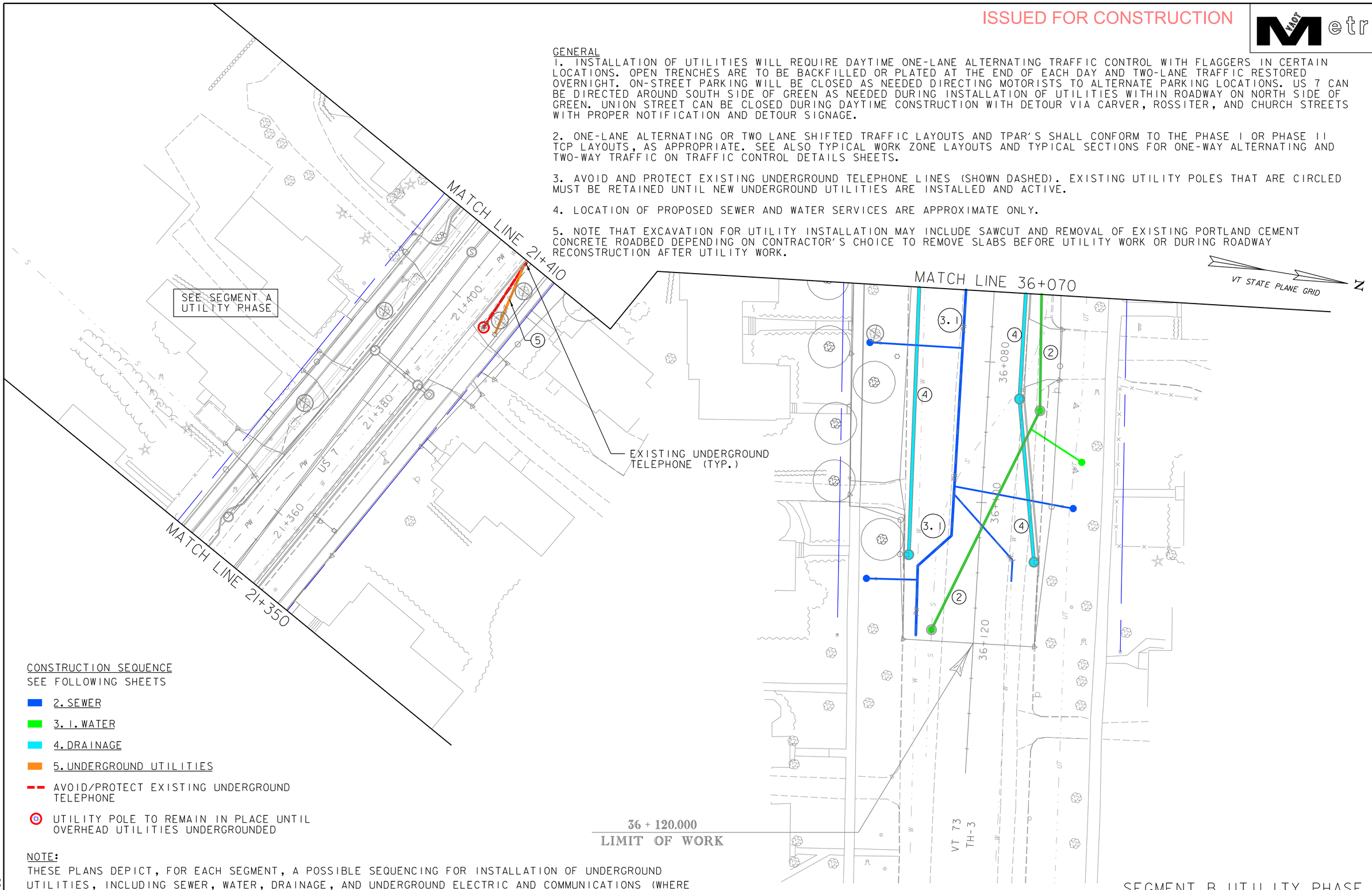
1. INSTALLATION OF UTILITIES WILL REQUIRE DAYTIME ONE-LANE ALTERNATING TRAFFIC CONTROL WITH FLAGGERS IN CERTAIN LOCATIONS. OPEN TRENCHES ARE TO BE BACKFILLED OR PLATED AT THE END OF EACH DAY AND TWO-LANE TRAFFIC RESTORED OVERNIGHT. ON-STREET PARKING WILL BE CLOSED AS NEEDED DIRECTING MOTORISTS TO ALTERNATE PARKING LOCATIONS. US 7 CAN BE DIRECTED AROUND SOUTH SIDE OF GREEN AS NEEDED DURING INSTALLATION OF UTILITIES WITHIN ROADWAY ON NORTH SIDE OF GREEN. UNION STREET CAN BE CLOSED DURING DAYTIME CONSTRUCTION WITH DETOUR VIA CARVER, ROSSITER, AND CHURCH STREETS WITH PROPER NOTIFICATION AND DETOUR SIGNAGE.

2. ONE-LANE ALTERNATING OR TWO LANE SHIFTED TRAFFIC LAYOUTS AND TPAR'S SHALL CONFORM TO THE PHASE I OR PHASE II TCP LAYOUTS, AS APPROPRIATE. SEE ALSO TYPICAL WORK ZONE LAYOUTS AND TYPICAL SECTIONS FOR ONE-WAY ALTERNATING AND TWO-WAY TRAFFIC ON TRAFFIC CONTROL DETAILS SHEETS.

3. AVOID AND PROTECT EXISTING UNDERGROUND TELEPHONE LINES (SHOWN DASHED). EXISTING UTILITY POLES THAT ARE CIRCLED MUST BE RETAINED UNTIL NEW UNDERGROUND UTILITIES ARE INSTALLED AND ACTIVE.

4. LOCATION OF PROPOSED SEWER AND WATER SERVICES ARE APPROXIMATE ONLY.

5. NOTE THAT EXCAVATION FOR UTILITY INSTALLATION MAY INCLUDE SAWCUT AND REMOVAL OF EXISTING PORTLAND CEMENT CONCRETE ROADBED DEPENDING ON CONTRACTOR'S CHOICE TO REMOVE SLABS BEFORE UTILITY WORK OR DURING ROADWAY RECONSTRUCTION AFTER UTILITY WORK.



CONSTRUCTION SEQUENCE

SEE FOLLOWING SHEETS

- 2. SEWER
- 3. 1. WATER
- 4. DRAINAGE
- 5. UNDERGROUND UTILITIES
- AVOID/PROTECT EXISTING UNDERGROUND TELEPHONE
- UTILITY POLE TO REMAIN IN PLACE UNTIL OVERHEAD UTILITIES UNDERGROUNDED

36 + 120.000
LIMIT OF WORK

NOTE:

THESE PLANS DEPICT, FOR EACH SEGMENT, A POSSIBLE SEQUENCING FOR INSTALLATION OF UNDERGROUND UTILITIES, INCLUDING SEWER, WATER, DRAINAGE, AND UNDERGROUND ELECTRIC AND COMMUNICATIONS (WHERE APPLICABLE) IN ADVANCE OF THE ROADWAY RECONSTRUCTION WORK EFFORT AND INCLUDE SUGGESTED TRAFFIC CONTROL MEASURES DURING INSTALLATION OF UTILITIES. THESE PLANS SHOULD BE CONSIDERED APPROXIMATE WITH RESPECT TO THE DEPICTED LOCATION OF EXISTING UTILITIES AND FINAL LOCATION OF PROPOSED SERVICES TO RESIDENCES. THE ACTUAL SEQUENCE OF CONSTRUCTION, INCLUDING INSTALLATION OF UNDERGROUND UTILITIES AND SERVICES, SHALL BE DETERMINED BY THE CONTRACTOR BASED ON SELECTED METHODS OF CONSTRUCTION AND BASED ON INFORMATION OBTAINED DURING EXPLORATORY EXCAVATIONS AND ACTUAL FIELD CONDITIONS ENCOUNTERED DURING CONSTRUCTION.

0 10 20 30
SCALE IN METERS

SEGMENT B UTILITY PHASE TRAFFIC CONTROL PLAN 6

PROJECT NAME: BRANDON
PROJECT NUMBER: NH 019-3(496)

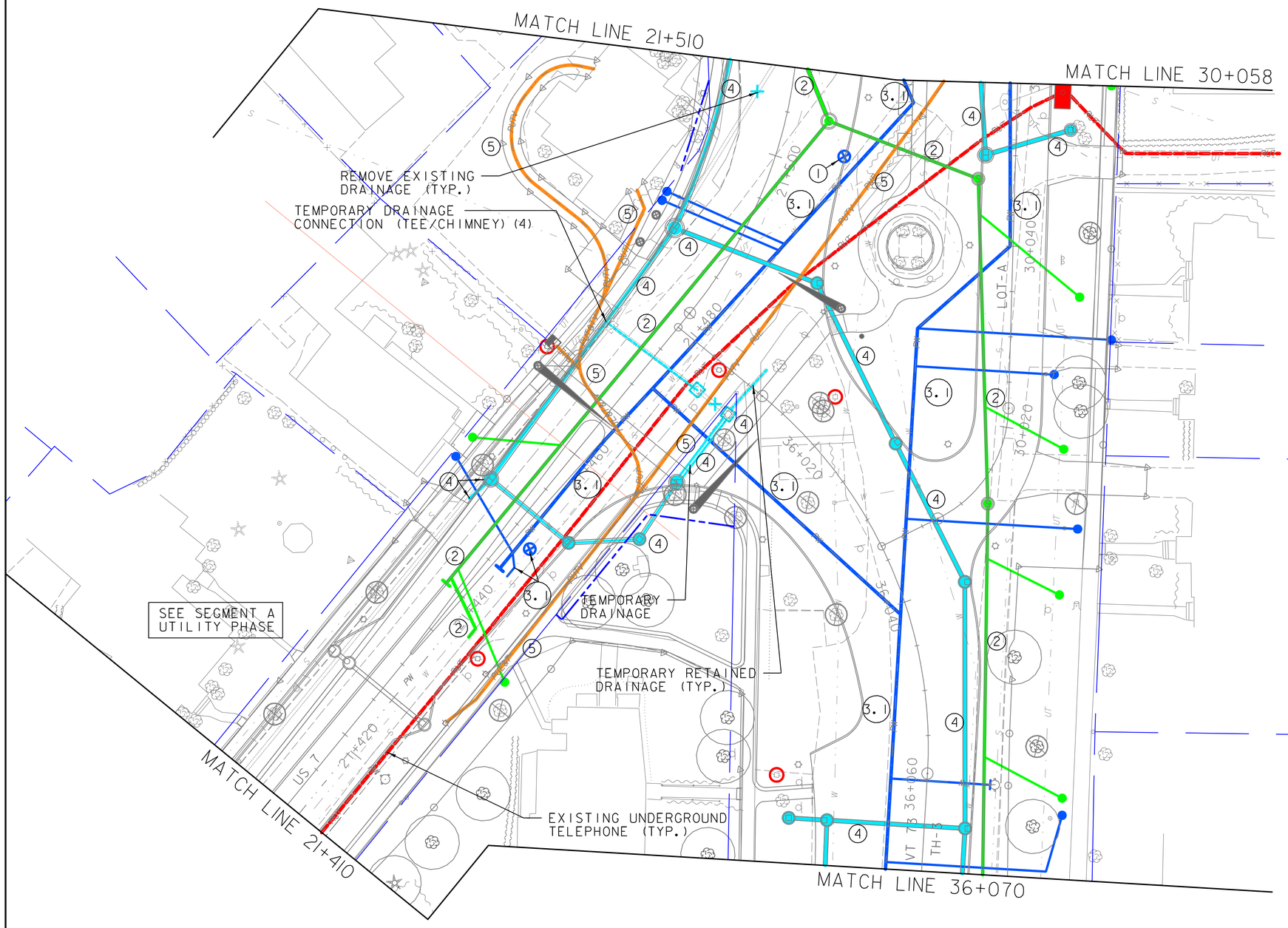
FILE NAME: zb008s6-tcp.dgn
PROJECT LEADER: C. BEAN
DESIGNED BY: J. FOWLER
PLOT DATE: 2/23/2017
DRAWN BY: J. FOWLER
CHECKED BY: J.FRYER
SHEET 408 OF 601

CLD 02-0448 MODEL: B-0-06

ISSUED FOR CONSTRUCTION

VT STATE PLANE GRID N

VAOT Metric



AVOID/PROTECT EXISTING UNDERGROUND TELEPHONE

UTILITY POLE TO REMAIN IN PLACE UNTIL OVERHEAD UTILITIES UNDERGROUNDED

0 10 20 30

SCALE IN METERS

CONSTRUCTION SEQUENCE

1. UNION/CARVER STREET WATER

NEW SEWER WILL IMPACT WATER ON UNION STREET AND AT 21+505 RT, SO INSTALL WATER FIRST TO LIMITS SHOWN FROM ENDS OF UNION AND CARVER STREET PROPOSED MAINS TO CAPPED ENDS AT 21+510 RT AND 21+628 LT. INSTALL VALVE ON EXISTING MAIN ON CARVER STREET AT 34+064 LT TO TURN OFF CARVER STREET MAIN WHEN INSTALLING NEW MAIN 34+000 TO 34+063. REMAINING CARVER STREET CUSTOMERS CAN BE BACKFED. PRESSURE TEST, SHOCK, DE-CHLORINATE, TEST.

* TO CHARGE MAIN, INSTALL INSERTION VALVE AND TEMPORARY CONNECTION TO EXISTING 300 MAIN AT 21+512 RT.
* INSTALL TEMPORARY FEED TO EXISTING 250 MAIN FROM NEW MAIN AT 21+628 AND INSTALL AN INTERCONNECT BETWEEN EXISTING 250 AND 300 MAINS AT 21+652 LT. THE EXISTING 300 MAIN WILL BE FED FROM THE 250 MAIN DURING SEQUENCE NOTE NO. 3.2 (BELOW) WHEN THE EXISTING 300 MAIN IS VALVED OFF IN LOT-A WHILE THE NEW MAIN IS INSTALLED FROM 30+112 TO 30+160.
* INSTALL SERVICES AND HYDRANT STUBS. HYDRANT AT 35+035 LT CAN BE INSTALLED, OTHERS WILL BE INSTALLED AFTER ROAD CONSTRUCTION.
* INSTALL VALVE ON 250 MAIN AT 21+500 RT TO VALVE OFF OLD MAIN TO UNION/ CARVER. ABANDON OLD MAIN.

2. SEWER

INSTALL SMH AT 35+058. CONNECT EXISTING SEWER WITH TEMPORARY PIPE INTO NEW SMH AND BYPASS PUMP TO EXISTING SMH FARTHER DOWN UNION STREET (OFF PLAN). INSTALL NEW SMH AT 35+064, CONNECT TO 35+058 AND CEASE BYPASS PUMPING. INSTALL SEWER WORKING UP FROM UNION STREET. CAN BYPASS PUMP OUT OF EXISTING SMH AT 21+520 RT IF NEEDED. INSTALL ALL OF VT 73 SEWER SINCE WATER HAS TO BE REPLACED NEXT (SEE BELOW). PROVIDE CAPPED END AND TEMPORARY PIPE TO CONNECT TO EXISTING SEWER AT 21+440 RT. SEGMENT A WILL CONNECT HERE LATER. CONNECT LATERALS. FLOW FILL OLD MAIN.

3.1 WATER

COMPLETE INSTALLATION OF WATER FROM 21+512 RT TO 21+445 RT AND NEW 400 MAIN ALONG VT-73 AND LOT-A.

* SINCE 300 MAIN WILL BE IMPACTED BY NEW UTILITY AND DRAINAGE 30+100 TO 30+120 LT, INSTALL ALL NEW MAIN FROM VT-73 INTERCONNECT AT 36+110 TO THE EXISTING CAPPED 400 MAIN AT 30+102, AND ALSO FROM 21+470 TO 36+040 PRIOR TO THE UTILITY AND DRAINAGE WORK. THEN ALL OF THE UNDERGROUND WORK WILL BE DONE IN SEGMENT A. CAN BYPASS TRAFFIC SOUTH OF GREEN AS NEEDED. NO. 1 WATER MAIN CONTINUES TO BE FED FROM EXISTING 300 MAIN VIA TAP AT 21+512 RT UNTIL SEQUENCE NOTE NO. 3.1 IS ACTIVE.
* EXISTING 250 AND 300 MAINS ON VT-73 AND EXISTING INTERCONNECT AT 36+027 MUST REMAIN ACTIVE DURING THIS WORK UNTIL NEW 400 MAIN IS TESTED AND PUT INTO SERVICE AND SERVICES ARE SWITCHED OVER TO NEW MAIN.
* EXISTING WATER FROM 21+480 TO 21+500 RT WILL BE IMPACTED DURING INSTALLATION OF NEW MAIN. TURN OFF VALVE AT EXISTING INTERCONNECT AT 36+030 LT AND FIND VALVE SOUTH OF 21+440 (OR INSERT ONE AT 21+440) TO TEMPORARILY DEACTIVATE MAIN 21+440 TO 21+500 DURING INSTALLATION. WILL NEED TO PROTECT/KEEP ACTIVE THE 300 MAIN IN SAME TRENCH AS NEW MAIN FROM 21+505 TO 21+510 RT.
* PRESSURE TEST, SHOCK, DE-CHLORINATE, TEST. CONNECT TO VT-73 MAINS TO CHARGE. CONNECT TO 400 MAIN INSTALLED UNDER PHASE 1 CONTRACT AT 30+102. INSTALL SERVICES. HYDRANTS CAN'T BE INSTALLED UNTIL ROADWAY RECONSTRUCTION COMPLETE.
* CONNECT NO. 1 MAIN TO NEW MAIN AT 21+512 RT AND INSTALL AND CLOSE VALVE ON EXISTING 300 MAIN AND CLOSE VALVE INSTALLED UNDER PHASE 1 CONTRACT AT 30+102 TO DEACTIVATE 300 MAIN FROM 21+512 RT TO 30+102. EXISTING 300 MAIN WEST OF 30+102 IS TEMPORARILY FED FROM INTERCONNECT TO EXISTING 250 MAIN INSTALLED UNDER NO. 1. ABANDON OLD MAINS.

SEGMENT B UTILITY PHASE TRAFFIC CONTROL PLAN 7

PROJECT NAME:	BRANDON
PROJECT NUMBER:	NH 019-3(496)

FILE NAME: zb008s6-tcp.dgn		PLOT DATE:	2/23/2017
PROJECT LEADER: C. BEAN		DRAWN BY:	J. FOWLER
DESIGNED BY:	J. FOWLER	CHECKED BY:	J.FRYER
		SHEET	409 OF 601

CLD 02-0448 MODEL: B-0-07

ISSUED FOR CONSTRUCTION

VT STATE PLANE GRID

N

VAOT Metric

BYPASS PUMP TO SMH ON UNION STREET (OFF PLAN) (2)

BYPASS PUMP FROM HERE (2)

EXISTING UNDERGROUND TELEPHONE (TYP.)

MATCH LINE 21+615

MATCH LINE 30+149

35+080

TH-5

UNION STREET

35+060

35+040

35+020

35 + 066.000
LIMIT OF WORK

21+600

RETAIN EXIST. SEWER

STORE FRONTS

TEMPORARY RETAINED DRAINAGE (TYP.)

34+020

34+000

TH-42

CARVER ST

21+520

21+540

30+140

30+100

30+080

LOT-A

BRANDON INN

EXISTING WATER MAIN AND DUCTBANK INSTALLED UNDER NH 019-3(496) C/1

EXISTING UNDERGROUND TELEPHONE (TYP.)

TEMPORARY RETAINED DRAINAGE (TYP.)

REMOVE EXISTING DRAINAGE (TYP.)

SEE PLAN 8B

MATCH LINE 21+510

MATCH LINE 30+058

0 10 20 30

SCALE IN METERS

CONSTRUCTION SEQUENCE

3.2 WATER

*PROVIDE TEMPORARY WATER SERVICE TO BUILDING AT 30+140 RT.

* VALVE OFF 300 MAIN AT VALVE AT INTERCONNECT INSTALLED DURING SEQUENCE NOTE NO. 1 CONSTRUCTION.

* COMPLETE INSTALLATION OF WATER FROM 30+112 TO CAPPED END AT 21+650. EXISTING 300 MAIN WILL BE IMPACTED DURING INSTALLATION OF NEW MAIN. 300 MAIN NORTH OF WORK IS TEMPORARILY FED FROM INTERCONNECT TO 250 MAIN INSTALLED UNDER SEQUENCE NOTE NO. 1.

* PRESSURE TEST, SHOCK, DE-CHLORINATE, TEST. CHARGE BY CONNECTING TO MAIN INSTALLED UNDER PHASE I CONTRACT AT 30+112. CONNECT TO MAIN INSTALLED UNDER SEQUENCE NOTE NO. 1 AT 21+628. INSTALL SERVICE TO BUILDING AT 30+140 RT. ABANDON OLD MAIN.

4. DRAINAGE

INSTALL ROSSITER STREET DRAINAGE AND SAND FILTER AND INSTALL ALL CARVER STREET DRAINAGE UP TO DMH AT 21+572 LT. INSTALL DRAINAGE AND UNDERDRAIN STUBS ON UNION STREET, US 7, LOT-A, AND VT-73. SOME TEMPORARY PIPES WILL BE NEEDED TO CONNECT EXISTING DI'S TO THE NEW SYSTEM SINCE THE EXISTING DI'S MUST REMAIN ACTIVE UNTIL ROADWORK REGRADING IS PERFORMED LATER (DASHED BLUE).

5. UNDERGROUND UTILITIES

INSTALL DUCTS AND VAULTS SO UTILITY COMPANIES CAN PULL CABLE AND HAVE UNDERGROUND SYSTEM IN PLACE PRIOR TO REMOVING POLES ALONG CENTER STREET AND RELOCATING POLES TO SOUTH AND NORTH OF DOWNTOWN. WEST SEMINARY STREET UNDERGROUNDING (SEGMENT D) IS ALSO CRITICAL AS PART OF INITIAL UTILITY RELOCATION EFFORT.

AVOID/PROTECT EXISTING UNDERGROUND TELEPHONE

UTILITY POLE TO REMAIN IN PLACE UNTIL OVERHEAD UTILITIES UNDERGROUNDED

SEGMENT B UTILITY PHASE TRAFFIC CONTROL PLAN 8

PROJECT NAME: BRANDON

PROJECT NUMBER: NH 019-3(496)

FILE NAME: zb008s6-tcp.dgn
PROJECT LEADER: C. BEAN
DESIGNED BY: J. FOWLER

PLOT DATE: 2/23/2017
DRAWN BY: J. FOWLER
CHECKED BY: J.FRYER
SHEET 410 OF 601

CLD 02-0448 MODEL: B-0-08

ISSUED FOR CONSTRUCTION

VAOT Metric

VT STATE PLANE GRID N

4. WATER & DRAINAGE (CARVER/ROSSITER)

37 + 070.000
LIMIT OF WORK

34 + 210.000
LIMIT OF WORK

37+080

37+060 ROSSITER ST

37+020

HYD

APPROX. EXIST. ROW

APPROX. EXIST. ROW

APPROX. EXIST. ROW

APPROX. EXIST. ROW

APPROX. EXIST. ROW

34+240

34+220

34+200

34+180

34+160

34+140

TH-42

34+120

34+100

CARVER ST

SEE PLAN 8

CLD 02-0448 MODEL: B-0-08B

SEGMENT B UTILITY PHASE TRAFFIC CONTROL PLAN 8B

PROJECT NAME:	BRANDON
PROJECT NUMBER:	NH 019-3(496)

FILE NAME: zb008s6-tcp.dgn	PLOT DATE: 2/23/2017
PROJECT LEADER: C. BEAN	DRAWN BY: J. FOWLER
DESIGNED BY: J. FOWLER	CHECKED BY: J.FRYER
	SHEET 411 OF 601

ISSUED FOR CONSTRUCTION

VAOT Metric

VT STATE PLANE GRID N

CONSTRUCTION SEQUENCE

1, 3.2. WATER

AVOID/PROTECT EXISTING UNDERGROUND TELEPHONE

UTILITY POLE TO REMAIN IN PLACE UNTIL OVERHEAD UTILITIES UNDERGROUNDED

SEE SEGMENT C UTILITY PHASE

TEMPORARY INTERCONNECT 250 AND 300 MAINS

EXISTING UNDERGROUND TELEPHONE (TYP.)

MATCH LINE 21+615

MATCH LINE 30+149

MATCH LINE 21+735

POT 21+710.844 BK = TBD = +0.240 AHD

POT 21+710.604

US 7

21+620

21+660

21+680

21+700

21+720

0 10 20 30

SCALE IN METERS

SEGMENT B UTILITY PHASE TRAFFIC CONTROL PLAN 9

PROJECT NAME: BRANDON

PROJECT NUMBER: NH 019-3(496)

FILE NAME: zb008s6-tcp.dgn

PROJECT LEADER: C. BEAN

DESIGNED BY: J. FOWLER

PLOT DATE: 2/23/2017

DRAWN BY: J. FOWLER

CHECKED BY: J.FRYER

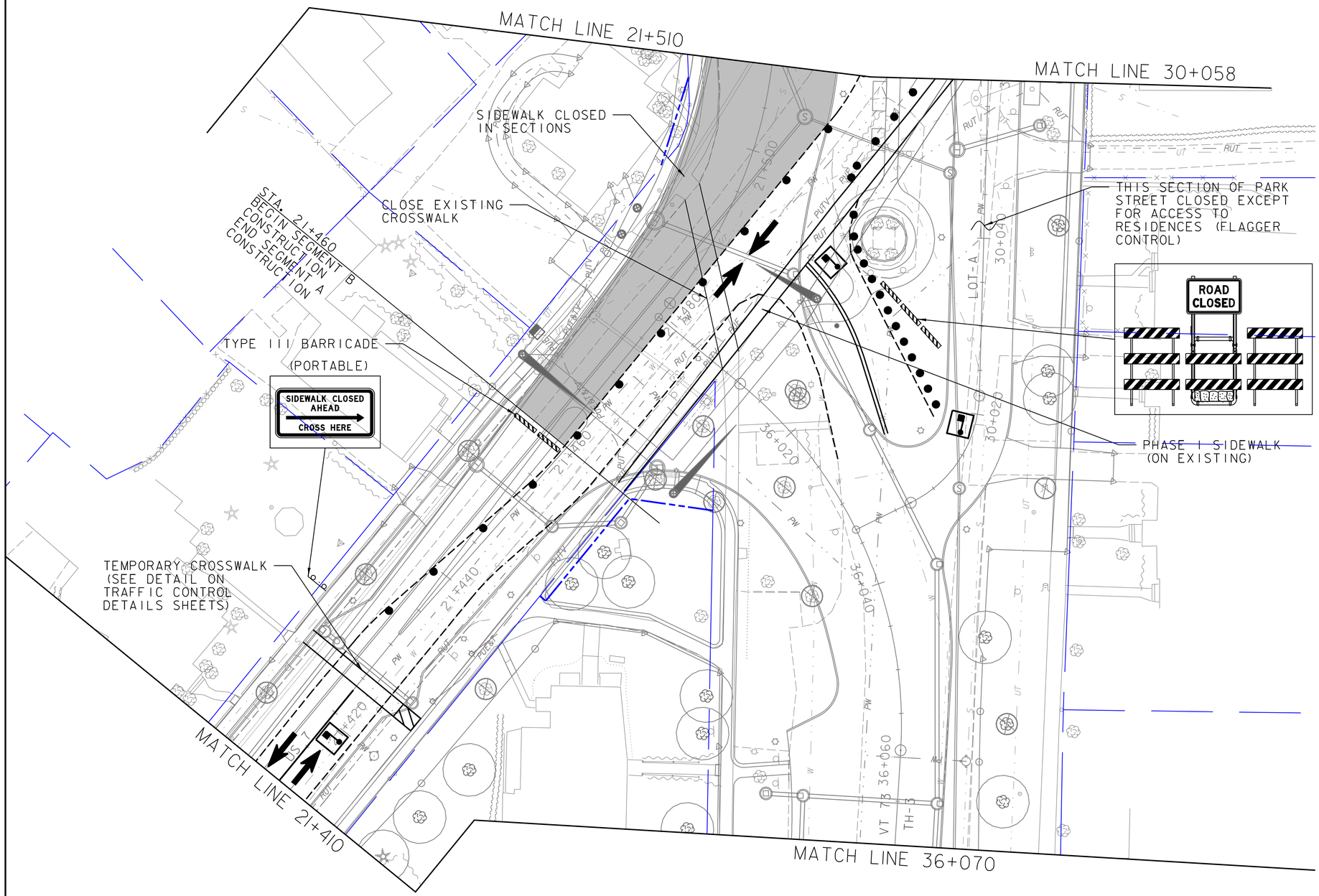
SHEET 412 OF 601

CLD 02-0448 MODEL: B-0-09

ISSUED FOR CONSTRUCTION

VT STATE PLANE GRID

SEGMENT B TRAFFIC CONTROL:
SEE ONE-WAY ALTERNATING TRAFFIC DETAILS ON TRAFFIC CONTROL DETAILS SHEETS



LEGEND

- PHASE I CONSTRUCTION
- TEMPORARY WIDENING FOR PHASE I TRAFFIC
- TEMPORARY WIDENING FOR PHASE II TRAFFIC
- PHASE I TPAR
- PHASE I TRAFFIC
- CHANNELIZING DEVICES
- TPAR BARRIER WITH TL-2 END TREATMENT
- TEMPORARY CONCRETE BARRIER WITH ATTENTUATOR
- TEMPORARY CENTERLINE
- TEMPORARY EDGE LINE
- LIMIT OF SHIFTED TRAFFIC AREA (INCL. BARRELS/BARRIER)
- FLAGGER STATION (MOVES DAILY AS CONSTRUCTION PROGRESSES)
- TEMPORARY CONSTRUCTION LIMITS

0 10 20 30

SCALE IN METERS

SEGMENT B PHASE I TRAFFIC CONTROL PLAN 7

PROJECT NAME: BRANDON
PROJECT NUMBER: NH 019-3(496)

FILE NAME: zb008s6-tcp.dgn
PROJECT LEADER: C. BEAN
DESIGNED BY: J. FOWLER
PLOT DATE: 2/23/2017
DRAWN BY: J. FOWLER
CHECKED BY: J.FRYER
SHEET 413 OF 601

CLD 02-0448 MODEL: B-1-07

ISSUED FOR CONSTRUCTION

VAOT Metric

VT STATE PLANE GRID

(PORTABLE)
SIDEWALK CLOSED AHEAD
CROSS HERE

(PORTABLE)
SIDEWALK CLOSED AHEAD
CROSS HERE

35+066.000
LIMIT OF WORK

SIDEWALK CLOSED IN SECTIONS

MATCH LINE 21+615

EXISTING TRANSIT BUS AND VT TRANSLINES BUS STOP AT TOWN GREEN. ESTABLISH TEMPORARY BUS STOP LOCATION ALONG TEMPORARY TRAVELED WAY WITH PRIOR APPROVAL OF RESIDENT ENGINEER AND NOTIFICATION TO THE BUS COMPANIES. (SEE NOTE 1 ON PLAN 9)

MATCH LINE 30+149

SEGMENT B TRAFFIC CONTROL:
SEE TWO-WAY TRAFFIC DETAILS ON TRAFFIC CONTROL DETAILS SHEETS

NOTES:
1. MOST WALKWAYS IN TOWN GREEN WILL BE CONSTRUCTED DURING OR AFTER PHASE II. AT LEAST ONE EXISTING WALKWAY AND CROSSWALK SHALL REMAIN OPEN DURING PHASE I CONSTRUCTION TO PROVIDE PEDESTRIAN ACCESS TO UNION AND CARVER STREETS.

2. DURING CONSTRUCTION 21+500 TO 21+555, CARVER AND UNION STREET TRAFFIC SHALL BE DIRECTED TO/FROM US 7 VIA INTERSECTION AT 21+630. DURING CONSTRUCTION 21+600 TO 21+630, CARVER AND UNION STREET SHALL BE DIRECTED TO/FROM US 7 VIA INTERSECTION AT 21+520.

UNION STREET:
CONTRACTOR MAY ELECT TO UTILIZE TEMPORARY CLOSURE DURING CONSTRUCTION OF US 7 WITHIN INTERSECTION AND DURING CONSTRUCTION OF UNION STREET. ACCESS TO UNION STREET VIA CARVER/ ROSSITER/CHURCH STREET DETOUR. AT LEAST ONE SIDEWALK ALONG UNION STREET SHALL REMAIN OPEN AT ALL TIMES WHILE OTHER SIDEWALK IS UNDER CONSTRUCTION. CONTRACTOR SHALL PROVIDE SPECIFIC DETOUR PLANS FOR UPDATED TRAFFIC MANAGEMENT STRATEGIES. SEE CONSTRUCTION APPROACH SIGNING DETAIL FOR ADDITIONAL APPROACH SIGN REQUIREMENTS.

CARVER STREET:
CONTRACTOR MAY ELECT TO UTILIZE TEMPORARY CLOSURE DURING CONSTRUCTION OF US 7 WITHIN INTERSECTION AND DURING CONSTRUCTION OF CARVER STREET. ACCESS TO CARVER STREET VIA UNION/CHURCH/ ROSSITER STREET DETOUR. AT LEAST ONE SIDEWALK ALONG CARVER STREET SHALL REMAIN OPEN AT ALL TIMES WHILE OTHER SIDEWALK IS UNDER CONSTRUCTION. CONTRACTOR SHALL PROVIDE SPECIFIC DETOUR PLANS FOR UPDATED TRAFFIC MANAGEMENT STRATEGIES. SEE CONSTRUCTION APPROACH SIGNING SEE CONSTRUCTION APPROACH SIGNING DETAIL FOR ADDITIONAL APPROACH SIGN REQUIREMENTS.

NOTE 1
NOTE 2
NOTE 1
NOTE 2

SEE PLAN 8B

SIDEWALK CLOSED IN SECTIONS

MATCH LINE 21+510

MATCH LINE 30+058

STORE FRONTS

PHASE I SIDEWALK (ON EXIST.)

BRANDON INN

EXISTING CROSSWALK

SIDEWALK (ON EXISTING)

PHASE II

ROAD CLOSED

0 10 20 30
SCALE IN METERS

LEGEND

- PHASE I CONSTRUCTION
- TEMPORARY WIDENING FOR PHASE I TRAFFIC
- TEMPORARY WIDENING FOR PHASE II TRAFFIC
- PHASE I TPAR
- PHASE I TRAFFIC
- CHANNELIZING DEVICES
- TPAR BARRIER WITH TL-2 END TREATMENT
- TEMPORARY CONCRETE BARRIER WITH ATTENTUATOR
- TEMPORARY CENTERLINE
- TEMPORARY EDGE LINE
- LIMIT OF SHIFTED TRAFFIC AREA (INCL. BARRELS/BARRIER)
- FLAGGER STATION (MOVES DAILY AS CONSTRUCTION PROGRESSES)
- TEMPORARY CONSTRUCTION LIMITS

SEGMENT B PHASE I TRAFFIC CONTROL PLAN 8

PROJECT NAME: BRANDON
PROJECT NUMBER: NH 019-3(496)

FILE NAME: zb008s6-tcp.dgn
PROJECT LEADER: C. BEAN
DESIGNED BY: J. FOWLER
PLOT DATE: 2/23/2017
DRAWN BY: J. FOWLER
CHECKED BY: J.FRYER
SHEET 414 OF 601

CLD 02-0448 MODEL: B-I-08

ISSUED FOR CONSTRUCTION

VAOT Metric

SEE PLAN 8D

37 + 070.000
LIMIT OF WORK

(PORTABLE)
SIDEWALK CLOSED AHEAD
CROSS HERE

TEMPORARY CROSSWALK
(SEE DETAIL ON
TRAFFIC CONTROL
DETAILS SHEET)

(PORTABLE)
SIDEWALK CLOSED AHEAD
CROSS HERE

CARVER STREET:
UTILIZE DAYTIME ONE-WAY ALTERNATING TRAFFIC WITH FLAGGERS TO INSTALL DRAINAGE. PEDESTRIAN ACCESS ON EXISTING SIDEWALK SHALL BE MAINTAINED. SEE CONSTRUCTION APPROACH SIGNING FOR ADDITIONAL SIGNING REQUIREMENTS.

ROSSITER STREET:
TEMPORARY CLOSURE DURING CONSTRUCTION OF DRAINAGE AND STORMWATER TREATMENT STRUCTURE. ACCESS TO ROSSITER STREET VIA UNION STREET/ CHURCH STREET DETOUR. AT LEAST ONE SIDEWALK ALONG ROSSITER STREET SHALL REMAIN OPEN AT ALL TIMES. CONTRACTOR SHALL PROVIDE SPECIFIC DETOUR PLANS FOR UPDATED TRAFFIC MANAGEMENT STRATEGIES. SEE CONSTRUCTION APPROACH SIGNING FOR ADDITIONAL APPROACH SIGN REQUIREMENTS.

LEGEND

- PHASE I CONSTRUCTION
- TEMPORARY WIDENING FOR PHASE I TRAFFIC
- TEMPORARY WIDENING FOR PHASE II TRAFFIC
- PHASE I TPAR
- PHASE I TRAFFIC
- CHANNELIZING DEVICES
- TPAR BARRIER WITH TL-2 END TREATMENT
- TEMPORARY CONCRETE BARRIER WITH ATTENTUATOR
- TEMPORARY CENTERLINE
- TEMPORARY EDGE LINE
- LIMIT OF SHIFTED TRAFFIC AREA (INCL. BARRELS/BARRIER)
- FLAGGER STATION (MOVES DAILY AS CONSTRUCTION PROGRESSES)
- TEMPORARY CONSTRUCTION LIMITS

VT STATE PLANE GRID N

37+080
37+060 ROSSITER ST
37+040
37+020
HYD
APPROX. EXIST. ROW
APPROX. EXIST. ROW

34 + 210.000
LIMIT OF WORK

TEMPORARY CROSSWALK
(SEE DETAIL ON
TRAFFIC CONTROL
DETAILS SHEET)

(PORTABLE)
SIDEWALK CLOSED AHEAD
CROSS HERE

APPROX. EXIST. ROW
APPROX. EXIST. ROW
APPROX. EXIST. ROW
APPROX. EXIST. ROW

34+240
34+220
34+200
34+180
34+160
34+140
TH-42 34+120
34+100
CARVER ST

(PORTABLE)
SIDEWALK CLOSED AHEAD
CROSS HERE

SEE PLAN 8

0 10 20 30
SCALE IN METERS

SEGMENT B PHASE I
TRAFFIC CONTROL PLAN 8B

PROJECT NAME: BRANDON
PROJECT NUMBER: NH 019-3(496)

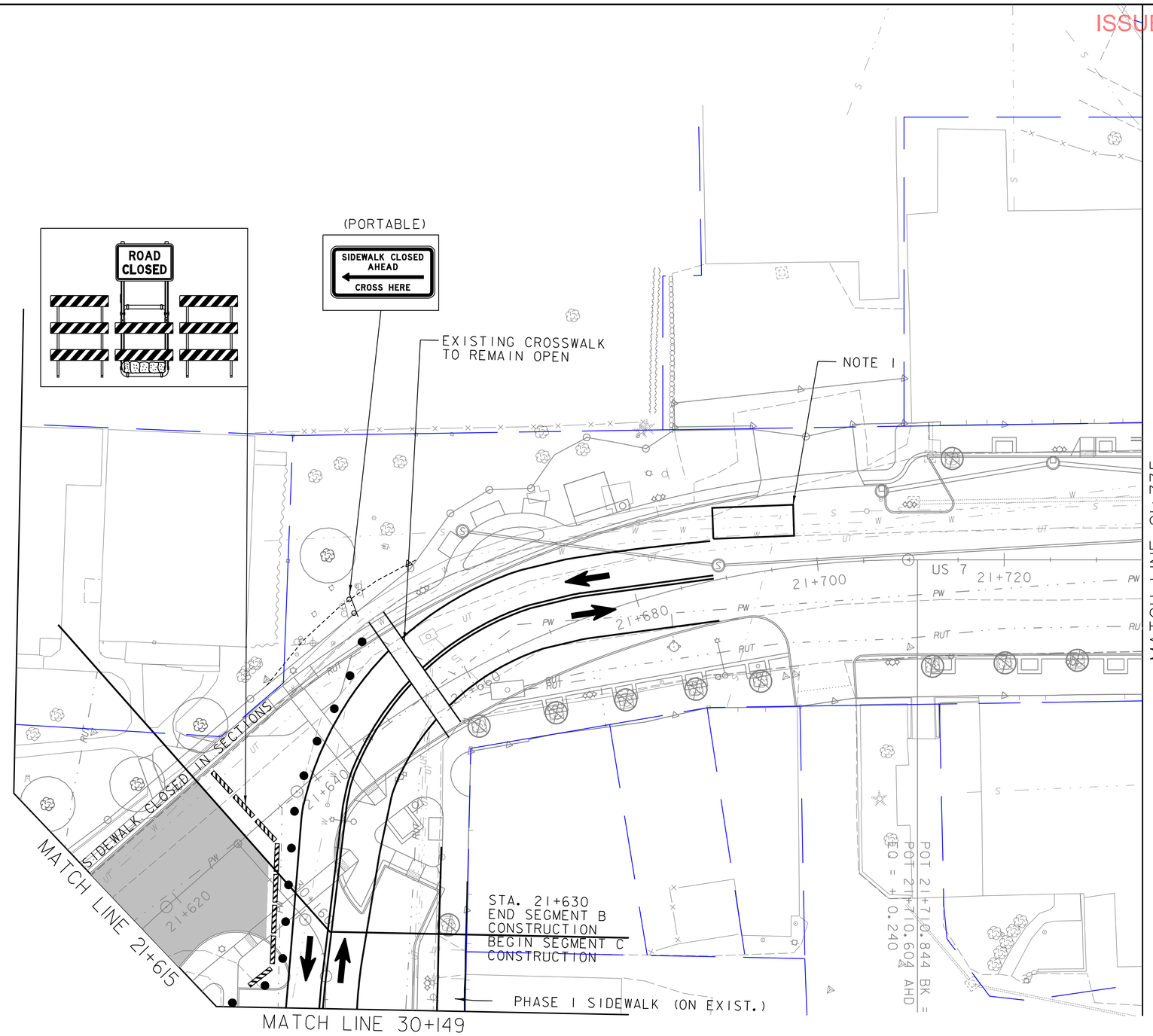
FILE NAME: zb008s6-tcp.dgn
PROJECT LEADER: C. BEAN
DESIGNED BY: J. FOWLER

PLOT DATE: 2/23/2017
DRAWN BY: J. FOWLER
CHECKED BY: J.FRYER
SHEET 415 OF 601

CLD 02-0448 MODEL: B-1-08B

ISSUED FOR CONSTRUCTION

VAOT Metric



VT STATE PLANE GRID N

SEGMENT B TRAFFIC CONTROL:
SEE TWO-WAY TRAFFIC DETAILS ON TRAFFIC CONTROL DETAILS SHEETS

NOTES:
1. EXISTING "THE BUS" AND VT TRANSLINES BUS STOPS TO BE TEMPORARILY RELOCATED TO 21+693 LT DURING CONSTRUCTION OF SEGMENT B.

LEGEND

- PHASE I CONSTRUCTION
- TEMPORARY WIDENING FOR PHASE I TRAFFIC
- TEMPORARY WIDENING FOR PHASE II TRAFFIC
- PHASE I TPAR
- PHASE I TRAFFIC
- CHANNELIZING DEVICES
- TPAR BARRIER WITH TL-2 END TREATMENT
- TEMPORARY CONCRETE BARRIER WITH ATTENTUATOR
- TEMPORARY CENTERLINE
- TEMPORARY EDGE LINE
- LIMIT OF SHIFTED TRAFFIC AREA (INCL. BARRELS/BARRIER)
- FLAGGER STATION (MOVES DAILY AS CONSTRUCTION PROGRESSES)
- TEMPORARY CONSTRUCTION LIMITS

SEGMENT B PHASE I TRAFFIC CONTROL PLAN 9

0 10 20 30
SCALE IN METERS

PROJECT NAME: BRANDON
PROJECT NUMBER: NH 019-3(496)

FILE NAME: zb008s6-tcp.dgn
PROJECT LEADER: C. BEAN
DESIGNED BY: J. FOWLER
PLOT DATE: 2/23/2017
DRAWN BY: J. FOWLER
CHECKED BY: J.FRYER
SHEET 416 OF 601

CLD 02-0448 MODEL: B-1-09

ISSUED FOR CONSTRUCTION

VT STATE PLANE GRID

N

VT 73 EAST:
CONSTRUCT VT 73 USING DAYTIME ALTERNATING ONE-WAY TRAFFIC WITH FLAGGERS. VT 73 MUST BE OPENED TO TWO LANES OF TRAFFIC AT END OF EACH DAY. AT LEAST ONE SIDEWALK ALONG VT 73 SHALL REMAIN OPEN AT ALL TIMES WHILE THE OTHER SIDEWALK IS UNDER CONSTRUCTION. SEE CONSTRUCTION APPROACH SIGNING FOR ADDITIONAL APPROACH SIGN REQUIREMENTS.

MATCH LINE 21+410

MATCH LINE 21+350

MATCH LINE 36+070

SIDEWALK CLOSED IN SECTIONS

21+400

21+380

21+360

US 7

36+080

36+100

36+120

(PORTABLE)
SIDEWALK CLOSED AHEAD
CROSS HERE

(PORTABLE)
SIDEWALK CLOSED AHEAD
CROSS HERE

TEMPORARY CROSSWALK (SEE DETAIL ON TRAFFIC CONTROL DETAILS SHEET)

36 + 120.000
LIMIT OF WORK

VT 73
TH-3

LEGEND

- PHASE II CONSTRUCTION
- PHASE 2 TPAR
- PHASE II TRAFFIC
- CHANNELIZING DEVICES
- TPAR BARRIER WITH TL-2 END TREATMENT
- TEMPORARY CONCRETE BARRIER WITH ATTENUATOR
- TEMPORARY CENTERLINE
- TEMPORARY EDGELINE
- LIMIT OF SHIFTED TRAFFIC AREA (INCL. BARRELS/BARRIER)
- FLAGGER STATION (MOVES DAILY AS CONSTRUCTION PROGRESSES)
- TEMPORARY CONSTRUCTION LIMITS

0 10 20 30
SCALE IN METERS

SEGMENT B PHASE II
TRAFFIC CONTROL PLAN 6

PROJECT NAME: BRANDON
PROJECT NUMBER: NH 019-3(496)

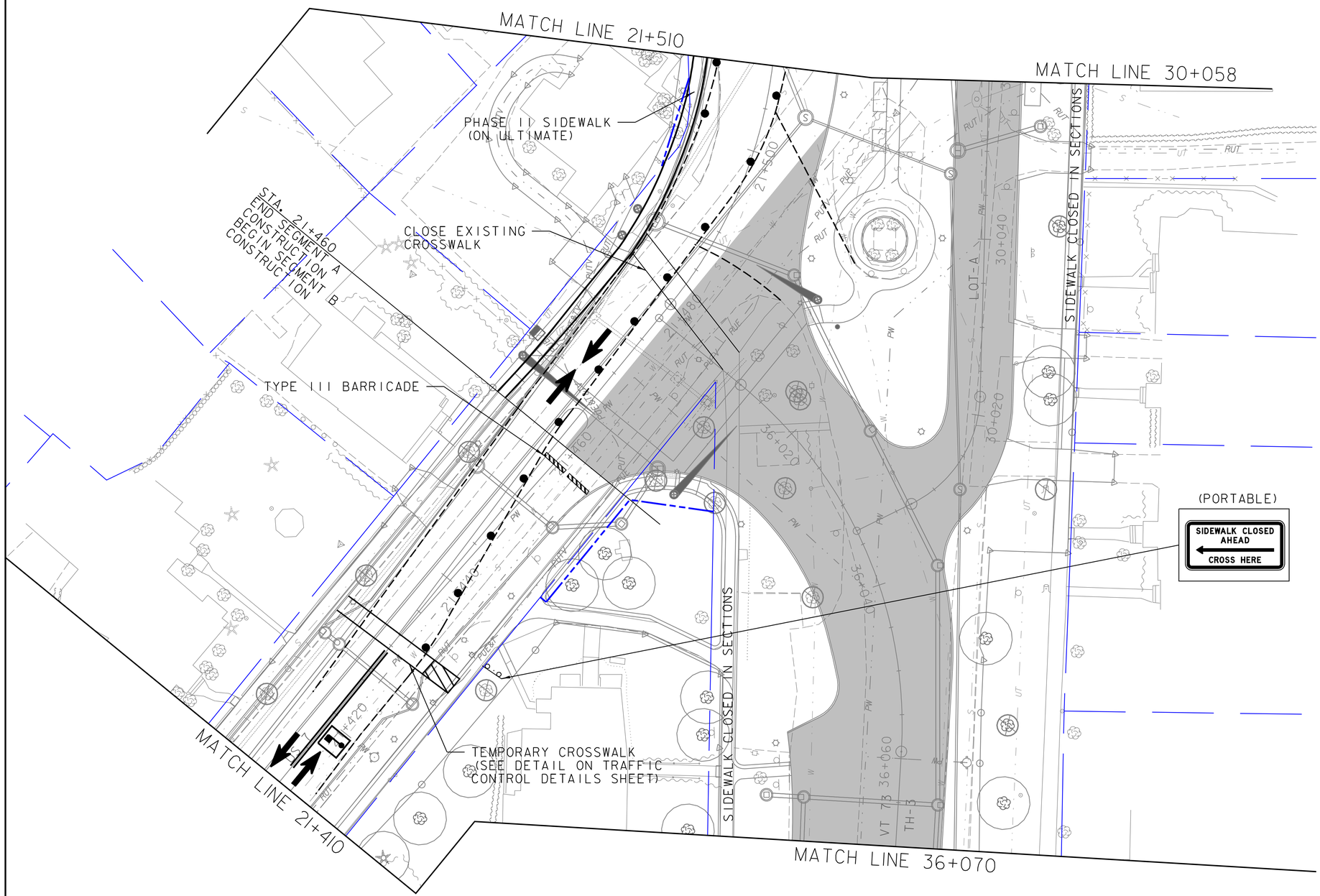
FILE NAME: zb008s6-tcp.dgn
PROJECT LEADER: C. BEAN
DESIGNED BY: J. FOWLER
PLOT DATE: 2/23/2017
DRAWN BY: J. FOWLER
CHECKED BY: J.FRYER
SHEET 417 OF 601

CLD 02-0448 MODEL: B-II-06

ISSUED FOR CONSTRUCTION

VAOT Metric

VT STATE PLANE GRID



SEGMENT B TRAFFIC CONTROL:
SEE ONE-WAY ALTERNATING TRAFFIC DETAILS ON TRAFFIC CONTROL DETAILS SHEETS

VT 73 EAST:
CONSTRUCT VT 73 USING DAYTIME ALTERNATING ONE-WAY TRAFFIC WITH FLAGGERS. VT 73 MUST BE OPENED TO TWO LANES OF TRAFFIC AT END OF EACH DAY. AT LEAST ONE SIDEWALK ALONG VT 73 SHALL REMAIN OPEN AT ALL TIMES WHILE THE OTHER SIDEWALK IS UNDER CONSTRUCTION. SEE CONSTRUCTION APPROACH SIGNING FOR ADDITIONAL APPROACH SIGN REQUIREMENTS.

LOT-A ACESS ROAD:
CONSTRUCT LOT-A ACCESS ROAD ONCE VT 73 INTERSECTION RECONSTRUCTED. COORDINATE WITH PROPERTY OWNERS TO MAINTAIN ACCESS TO DRIVEWAYS.

LEGEND

- PHASE II CONSTRUCTION
- PHASE 2 TPAR
- PHASE II TRAFFIC
- CHANNELIZING DEVICES
- TPAR BARRIER WITH TL-2 END TREATMENT
- TEMPORARY CONCRETE BARRIER WITH ATTENUATOR
- TEMPORARY CENTERLINE
- TEMPORARY EDGELINE
- LIMIT OF SHIFTED TRAFFIC AREA (INCL. BARRELS/BARRIER)
- FLAGGER STATION (MOVES DAILY AS CONSTRUCTION PROGRESSES)
- TEMPORARY CONSTRUCTION LIMITS

0 10 20 30

SCALE IN METERS

SEGMENT B PHASE II TRAFFIC CONTROL PLAN 7

PROJECT NAME: BRANDON
PROJECT NUMBER: NH 019-3(496)

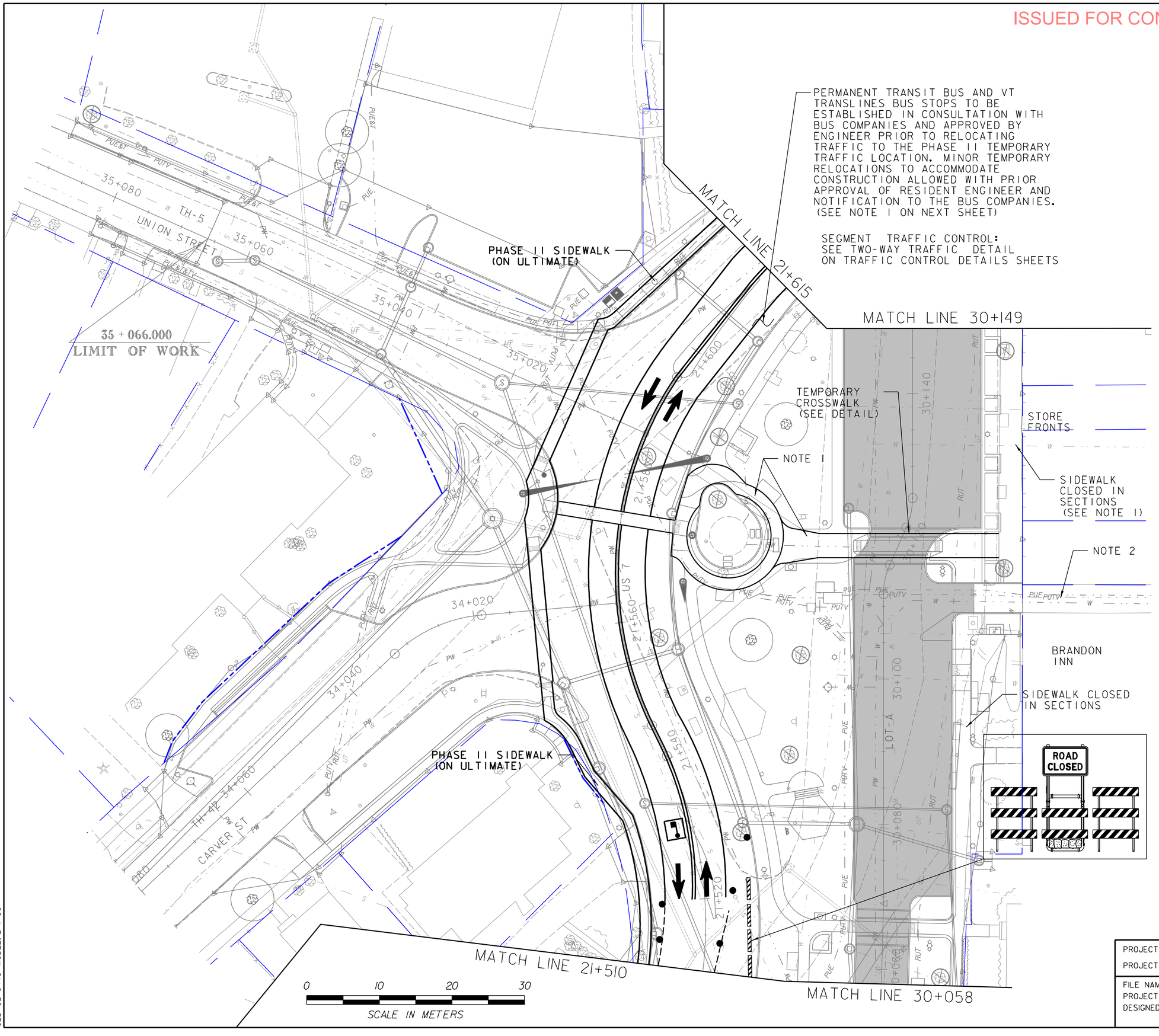
FILE NAME: zb008s6-tcp.dgn
PROJECT LEADER: C. BEAN
DESIGNED BY: J. FOWLER

PLOT DATE: 2/23/2017
DRAWN BY: J. FOWLER
CHECKED BY: J.FRYER
SHEET 418 OF 601

CLD 02-0448 MODEL: B-11-07

ISSUED FOR CONSTRUCTION

VAOT Metric



NOTES:

1. MOST WALKWAYS IN TOWN GREEN WILL BE CONSTRUCTED DURING OR AFTER PHASE II. AT LEAST ONE WALKWAY THROUGH GREEN AND ONE CROSSWALK ACROSS LOT-A SHALL BE PROVIDED DURING PHASE II CONSTRUCTION TO PROVIDE PEDESTRIAN ACCESS TO STORE FRONTS. CROSSWALK LOCATION MAY CHANGE AS CONSTRUCTION PROGRESSES. AS SECTIONS OF SIDEWALK ALONG BRANDON INN AND STORE FRONTS ARE UNDER CONSTRUCTION, PROVIDE TEMPORARY ADA ACCESSIBLE ACCESS AROUND CLOSED SECTION OF SIDEWALK UTILIZING PARKING SPACES. PEDESTRIAN ACCESS MUST BE PROVIDED AT ALL TIMES FROM DOWNTOWN PARKING (21+660 TO 21+800) TO THE INN AND STORE FRONTS WHILE LOT-A IS UNDER CONSTRUCTION.

2. BRANDON INN PATRON PARKING AND ACCESS TO INN IS FROM PARKING LOT IN REAR OF BUILDING. AT LEAST ONE DRIVEWAY AT 30+050 OR 30+111 MUST REMAIN OPEN AT ALL TIMES DURING PHASE II CONSTRUCTION. CONTRACTOR TO PROVIDE APPLICABLE SIGNING TO DIRECT PATRONS TO PARKING.

3. TRAFFIC SIGNALS MUST BE OPERATIONAL PRIOR TO DIRECTING US ROUTE 7 TRAFFIC ONTO THE PHASE I CONSTRUCTED AREA. CONTRACTOR SHALL PROVIDE TEMPORARY TRAFFIC SIGNALS IF TRAFFIC IS INTENDED TO BE ON THIS SEGMENT BEFORE THE PROPOSED TRAFFIC SIGNALS ARE OPPERATIONAL. (INCIDENTAL TO TRAFFIC CONTROL). DURING DAYTIME CONSTRUCTION UTILIZING ONE-WAY ALTERNATING TRAFFIC 21+420 TO 21+520, INTERSECTION OF CARVER/UNION STREET SHOULD BE UNDER UTO CONTROL (SIGNALS IN FLASHER MODE).

LEGEND

- PHASE II CONSTRUCTION
- PHASE 2 TPAR
- PHASE II TRAFFIC
- CHANNELIZING DEVICES
- TPAR BARRIER WITH TL-2 END TREATMENT
- TEMPORARY CONCRETE BARRIER WITH ATTENUATOR
- TEMPORARY CENTERLINE
- TEMPORARY EDGELINE
- LIMIT OF SHIFTED TRAFFIC AREA (INCL. BARRELS/BARRIER)
- FLAGGER STATION (MOVES DAILY AS CONSTRUCTION PROGRESSES)
- TEMPORARY CONSTRUCTION LIMITS

SEGMENT B PHASE II TRAFFIC CONTROL PLAN 8

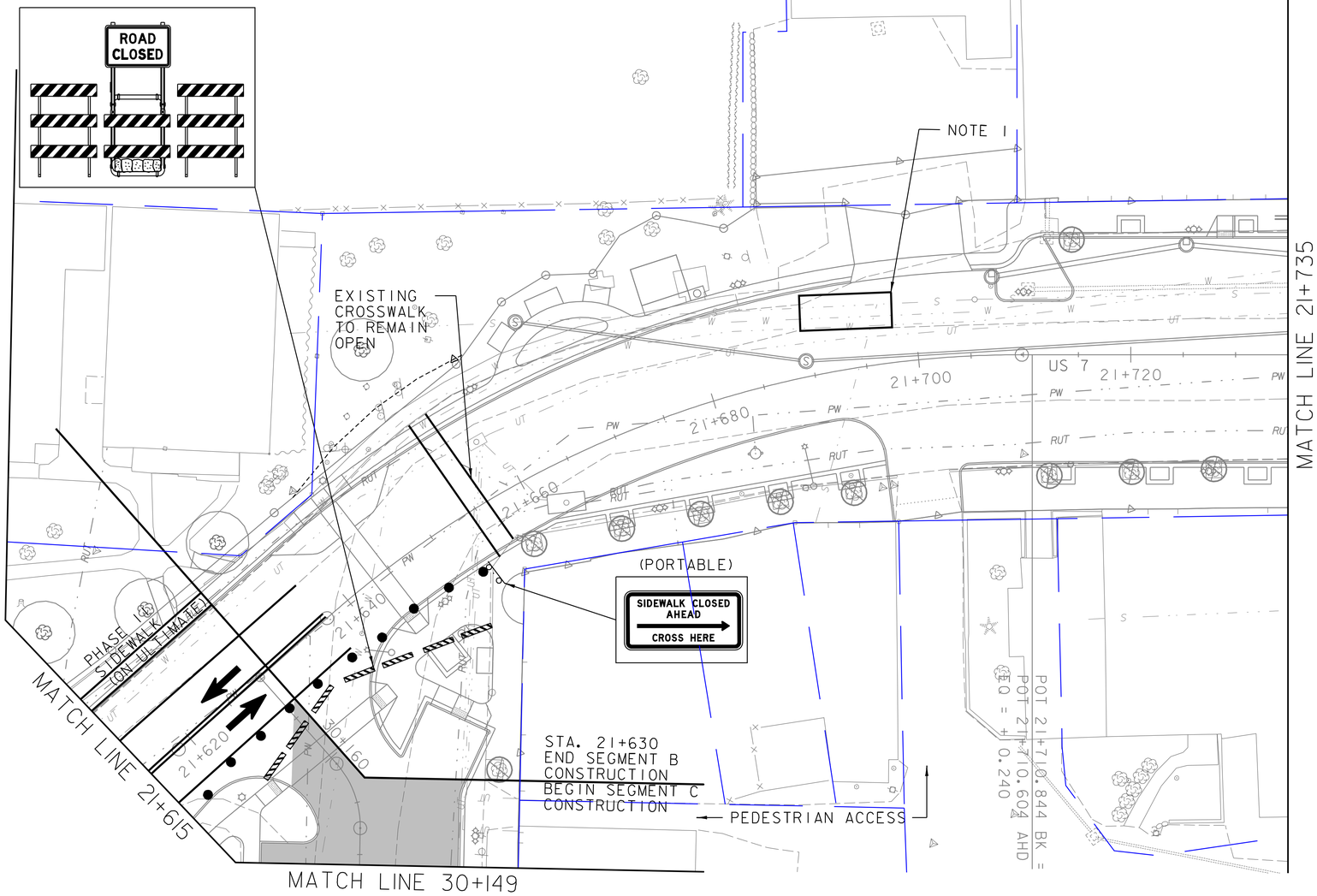
PROJECT NAME: BRANDON
PROJECT NUMBER: NH 019-3(496)

FILE NAME: zb008s6-tcp.dgn
PROJECT LEADER: C. BEAN
DESIGNED BY: J. FOWLER
PLOT DATE: 2/23/2017
DRAWN BY: J. FOWLER
CHECKED BY: J.FRYER
SHEET 419 OF 601

CLD 02-0448 MODEL: B-II-08

ISSUED FOR CONSTRUCTION

VAOT Metric



VT STATE PLANE GRID N

SEGMENT B TRAFFIC CONTROL:
SEE TWO-WAY TRAFFIC DETAIL
ON TRAFFIC CONTROL DETAILS SHEETS

NOTES:
1. EXISTING "THE BUS" AND VT TRANSLINES BUS STOPS TO BE TEMPORARILY RELOCATED TO 21+693 LT DURING CONSTRUCTION OF SEGMENT B.

LEGEND

- PHASE II CONSTRUCTION
- PHASE 2 TPAR
- PHASE II TRAFFIC
- CHANNELIZING DEVICES
- TPAR BARRIER WITH TL-2 END TREATMENT
- TEMPORARY CONCRETE BARRIER WITH ATTENUATOR
- TEMPORARY CENTERLINE
- TEMPORARY EDGELINE
- LIMIT OF SHIFTED TRAFFIC AREA (INCL. BARRELS/BARRIER)
- FLAGGER STATION (MOVES DAILY AS CONSTRUCTION PROGRESSES)
- TEMPORARY CONSTRUCTION LIMITS

0 10 20 30
SCALE IN METERS

SEGMENT B PHASE II TRAFFIC CONTROL PLAN 9

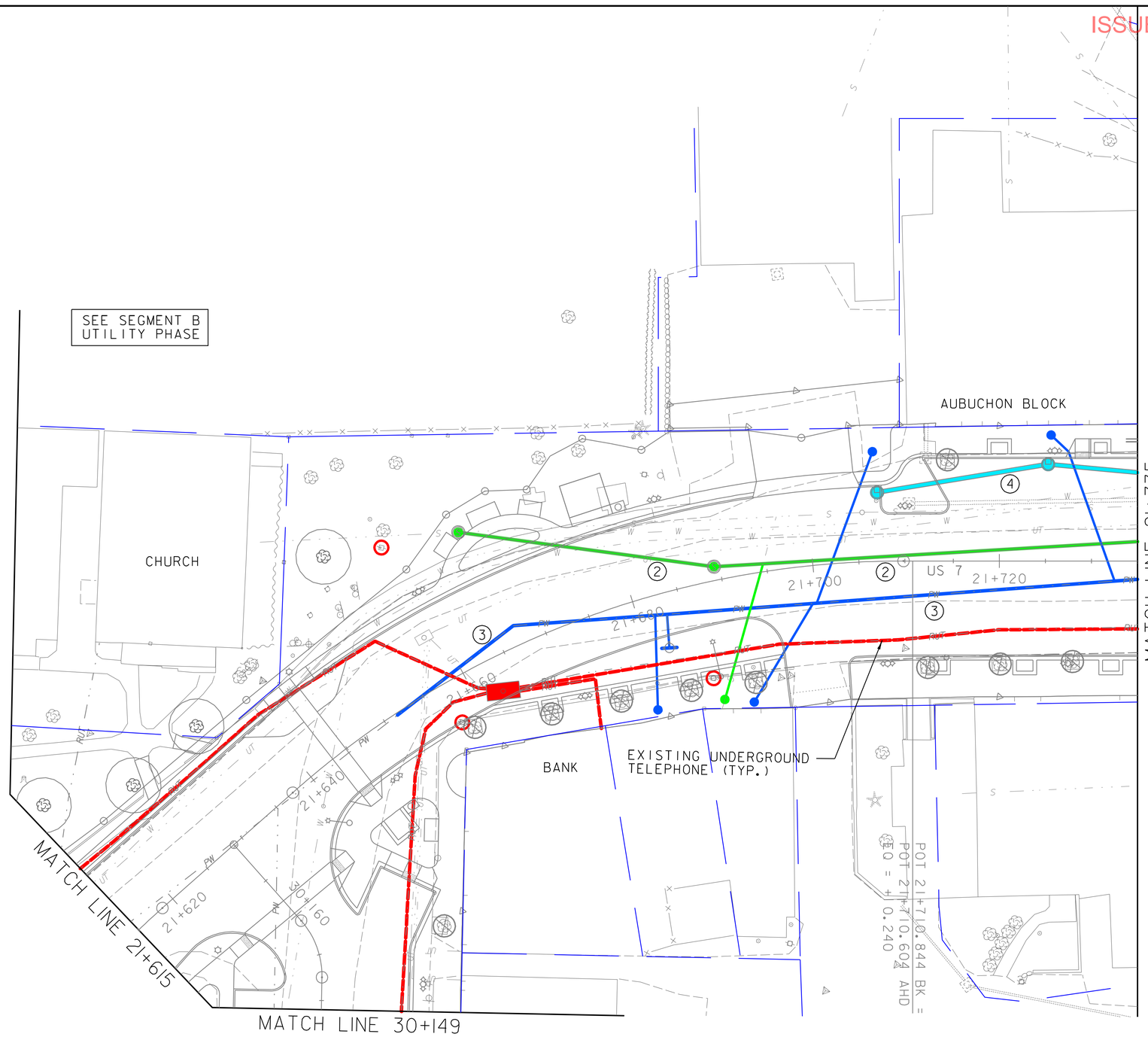
PROJECT NAME: BRANDON
PROJECT NUMBER: NH 019-3(496)

FILE NAME: zb008s6-tcp.dgn
PROJECT LEADER: C. BEAN
DESIGNED BY: J. FOWLER
PLOT DATE: 2/23/2017
DRAWN BY: J. FOWLER
CHECKED BY: J.FRYER
SHEET 420 OF 601

CLD 02-0448 MODEL: B-II-09

ISSUED FOR CONSTRUCTION

VAOT Metric



VT STATE PLANE GRID N

GENERAL

1. INSTALLATION OF UTILITIES WILL REQUIRE NIGHTTIME ONE-LANE ALTERNATING TRAFFIC CONTROL WITH FLAGGERS. OPEN TRENCHES ARE TO BE BACKFILLED OR PLATED AT END OF EACH NIGHT AND TWO-LANE TRAFFIC RESTORED BY MORNING. DURING NIGHTTIME OPERATIONS, ON-STREET PARKING WILL BE CLOSED AS NEEDED DIRECTING MOTORISTS TO PARKING LOT OUT BACK (21+700 RT) OR TO NEW LOT ON PLAN 8. ALL ON-STREET PARKING SHALL BE RESTORED BY MORNING UNLESS OTHERWISE APPROVED.

2. ONE-LANE ALTERNATING TRAFFIC LAYOUTS AND TPAR'S SHALL CONFORM TO THE TYPICAL WORK ZONE LAYOUTS AND TYPICAL SECTIONS FOR ONE-WAY ALTERNATING TRAFFIC ON TRAFFIC CONTROL DETAILS SHEETS.

3. AVOID AND PROTECT EXISTING UNDERGROUND TELEPHONE LINES (SHOWN DASHED)

4. LOCATION OF PROPOSED SEWER AND WATER SERVICES ARE APPROXIMATE ONLY.

5. NOTE THAT EXCAVATION FOR UTILITY INSTALLATION MAY INCLUDE SAWCUT AND REMOVAL OF EXISTING PORTLAND CEMENT CONCRETE ROADBED DEPENDING ON CONTRACTOR'S CHOICE TO REMOVE SLABS BEFORE UTILITY WORK OR DURING ROADWAY RECONSTRUCTION AFTER UTILITY WORK.

CONSTRUCTION SEQUENCE
SEE NEXT SHEET

- 2. WATER
- 3. SEWER
- 4. DRAINAGE
- AVOID/PROTECT EXISTING UNDERGROUND TELEPHONE
- UTILITY POLE TO REMAIN IN PLACE UNTIL OVERHEAD UTILITIES UNDERGROUNDED

NOTE:
THESE PLANS DEPICT, FOR EACH SEGMENT, A POSSIBLE SEQUENCING FOR INSTALLATION OF UNDERGROUND UTILITIES, INCLUDING SEWER, WATER, DRAINAGE, AND UNDERGROUND ELECTRIC AND COMMUNICATIONS (WHERE APPLICABLE) IN ADVANCE OF THE ROADWAY RECONSTRUCTION WORK EFFORT AND INCLUDE SUGGESTED TRAFFIC CONTROL MEASURES DURING INSTALLATION OF UTILITIES. THESE PLANS SHOULD BE CONSIDERED APPROXIMATE WITH RESPECT TO THE DEPICTED LOCATION OF EXISTING UTILITIES AND FINAL LOCATION OF PROPOSED SERVICES TO RESIDENCES. THE ACTUAL SEQUENCE OF CONSTRUCTION, INCLUDING INSTALLATION OF UNDERGROUND UTILITIES AND SERVICES, SHALL BE DETERMINED BY THE CONTRACTOR BASED ON SELECTED METHODS OF CONSTRUCTION AND BASED ON INFORMATION OBTAINED DURING EXPLORATORY EXCAVATIONS AND ACTUAL FIELD CONDITIONS ENCOUNTERED DURING CONSTRUCTION.

0 10 20 30
SCALE IN METERS

SEGMENT C UTILITY PHASE TRAFFIC CONTROL PLAN 9

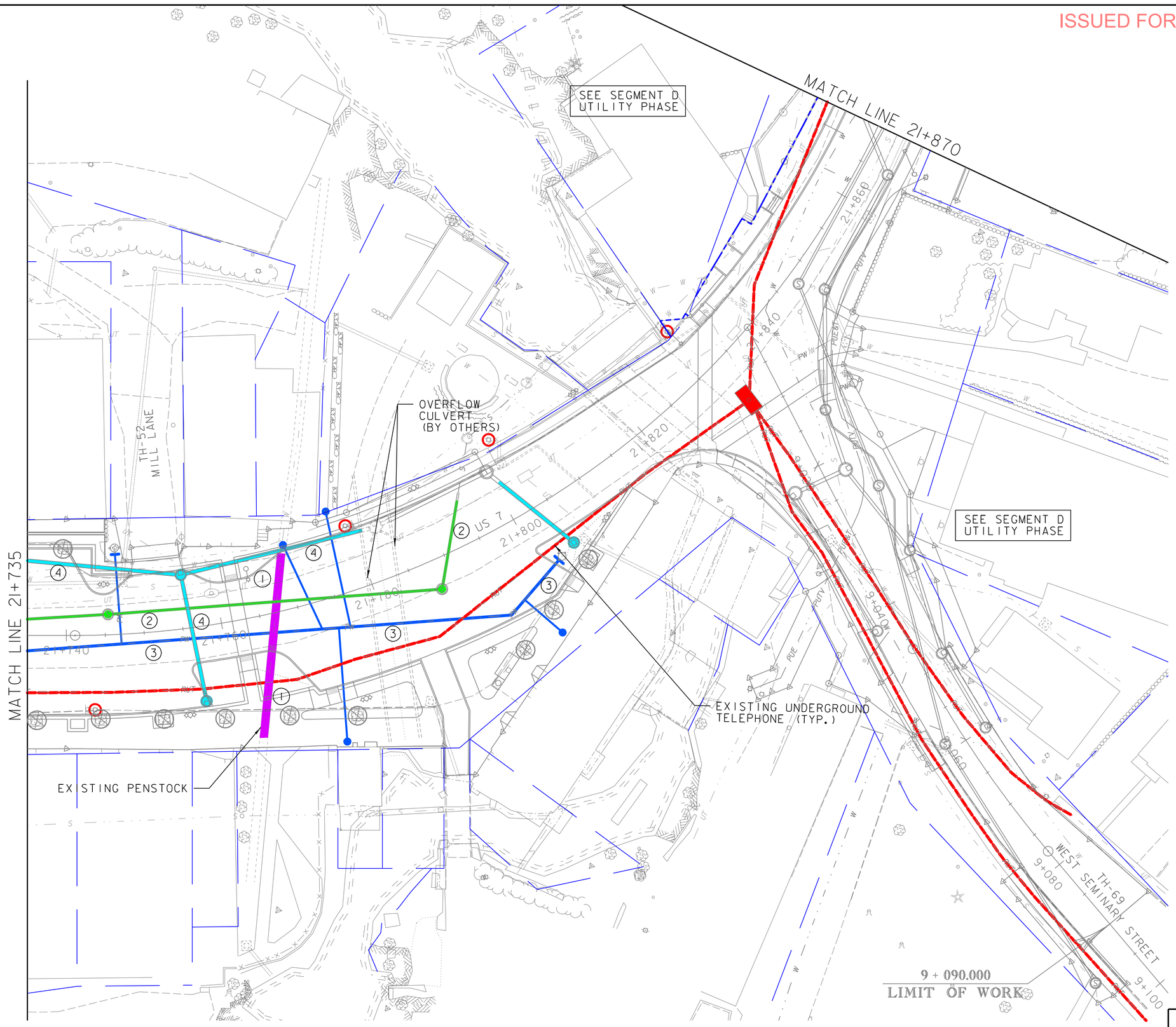
PROJECT NAME: BRANDON
PROJECT NUMBER: NH 019-3(496)

FILE NAME: zb008s6-tcp.dgn
PROJECT LEADER: C. BEAN
DESIGNED BY: J. FOWLER
PLOT DATE: 2/23/2017
DRAWN BY: J. FOWLER
CHECKED BY: J.FRYER
SHEET 421 OF 601

CLD 02-0448 MODEL: C-0-09

ISSUED FOR CONSTRUCTION

VAOT Metric



CONSTRUCTION SEQUENCE

1. PENSTOCK
PROVIDE TEMPORARY WATER TO BUILDING AT 21+770 RT FROM EXISTING HYDRANT AT 21+746 LT. REMOVE PENSTOCK FROM EXISTING MANHOLE AT 21+770 LT TO LIMIT OF WORK ON RIGHT SIDE TO ELIMINATE CONFLICT WITH NEW WATER AND SEWER MAIN INSTALLATION. AFTER NEW SEWER AND WATER MAINS ARE INSTALLED (BELOW), REMOVE MANHOLE AND BRICK UP/ABANDON OUTLET OF PENSTOCK. PROVIDE WATER TO THE EXISTING SERVICE THAT RUNS INSIDE REMAINING PENSTOCK TO BUILDING AT 21+790 LT.

2. SEWER
NEW SEWER CAN BE INSTALLED WHILE EXISTING MAIN STILL ACTIVE. INSTALL SEWER FROM CAPPED NEW SEWER AT 21+795 LT (INSTALLED WITH BRIDGE PROJECT) UP TO NEW SMH AT 21+666 LT. INSTALL LATERALS. REMOVE OLD SMH AND FLOW FILL OLD SEWER.

3. WATER
NEW WATER CAN BE INSTALLED WHILE EXISTING MAINS STILL ACTIVE. INSTALL MAIN FROM 21+651 TO 21+802. PRESSURE TEST, SHOCK, DE-CHLORINATE, TEST.
* CONNECT TO NEW MAIN AT CAPPED END FROM SEGMENT A CONSTRUCTION (21+651) TO CHARGE MAIN. INSTALL NEW SERVICES AND INSTALL STUBS FOR HYDRANTS. NEW HYDRANTS CAN'T BE INSTALLED SINCE IN THE WAY FOR TRAFFIC PHASING AND FOR CONSTRUCTION OF AUBUCHON BLOCK RETAINING WALL. MAY BE POSSIBLE TO RETAIN EXISTING HYDRANT AT 21+746 LT FROM NEW MAIN UNTIL WALL IS BUILT, THEN INSTALL NEW HYDRANT.
* REMOVE TEMPORARY WATER CONNECTION AT 21+628 LT AND REMOVE TEMPORARY 250 TO 300 INTERCONNECT AT 21+652 LT INSTALLED WITH SEGMENT B CONSTRUCTION. ABANDON OLD MAINS.

4. DRAINAGE
INSTALL DRAINAGE AND UNDERDRAIN STUBS FROM EXISTING RECEIVING DI AT OVERFLOW CULVERT AT 21+782 LT UP TO 21+707 LT AND INSTALL PIPE AND DI AT 21+804. DRAINAGE AT 21+785 TO 21+800 LT WILL ALREADY BE INSTALLED AS PART OF BRIDGE PROJECT. REMOVE OLD DRAINAGE WITHIN ROADWAY THAT IS NOT ALREADY REMOVED DURING EXCAVATION FOR NEW DRAINAGE. EXISTING DI AT 21+712 CAN REMAIN IN PLACE UNTIL ROADWAY IS REGRADED TO NEW DRAINAGE INLETS.

AVOID/PROTECT EXISTING UNDERGROUND TELEPHONE

UTILITY POLE TO REMAIN IN PLACE UNTIL OVERHEAD UTILITIES UNDERGROUNDED

SEGMENT C UTILITY PHASE TRAFFIC CONTROL PLAN 10

PROJECT NAME: BRANDON
PROJECT NUMBER: NH 019-3(496)

FILE NAME: zb008s6-tcp.dgn
PROJECT LEADER: C. BEAN
DESIGNED BY: J. FOWLER
PLOT DATE: 2/23/2017
DRAWN BY: J. FOWLER
CHECKED BY: J.FRYER
SHEET 422 OF 601

CLD 02-0448 MODEL: C-0-10

ISSUED FOR CONSTRUCTION

VAOT Metric

VT STATE PLANE GRID

SEGMENT C TRAFFIC CONTROL:
SEE ONE-WAY ALTERNATING TRAFFIC DETAILS ON TRAFFIC CONTROL DETAILS SHEETS

NOTES:
1. DURING ONE-WAY ALTERNATING TRAFFIC IN VICINITY OF SIGNALIZED UNION/ CARVER STREET INTERSECTION, INTERSECTION SHALL BE UTO CONTROLLED (SIGNALS IN FLASHER MODE).

2. ONE-WAY ALTERNATING TRAFFIC WILL BE ALLOWED FOR NIGHTTIME OPERATIONS ONLY. TWO LANES OF TRAFFIC AND ALL ON STREET PARKING SHALL BE RESTORED BY MORNING.

35 + 066.000
LIMIT OF WORK

MATCH LINE 21+615

MATCH LINE 30+149

SEE NOTE 1

STORE FRONTS

BRANDON INN

MATCH LINE 21+510

MATCH LINE 30+058

0 10 20 30
SCALE IN METERS

LEGEND

- PHASE I CONSTRUCTION
- TEMPORARY WIDENING FOR PHASE I TRAFFIC
- TEMPORARY WIDENING FOR PHASE II TRAFFIC
- PHASE I TPAR
- PHASE I TRAFFIC
- CHANNELIZING DEVICES
- TPAR BARRIER WITH TL-2 END TREATMENT
- TEMPORARY CONCRETE BARRIER WITH ATTENTUATOR
- TEMPORARY CENTERLINE
- TEMPORARY EDGE LINE
- LIMIT OF SHIFTED TRAFFIC AREA (INCL. BARRELS/BARRIER)
- FLAGGER STATION (MOVES DAILY AS CONSTRUCTION PROGRESSES)
- TEMPORARY CONSTRUCTION LIMITS

SEGMENT C PHASE I TRAFFIC CONTROL PLAN 8

PROJECT NAME: BRANDON
PROJECT NUMBER: NH 019-3(496)

FILE NAME: zb008s6-tcp.dgn
PROJECT LEADER: C. BEAN
DESIGNED BY: J. FOWLER
PLOT DATE: 2/23/2017
DRAWN BY: J. FOWLER
CHECKED BY: J.FRYER
SHEET 423 OF 601

CLD 02-0448 MODEL: C-1-08

ISSUED FOR CONSTRUCTION

VAOT Metric

PROVIDE ACCESS TO BUSINESSES/ RESIDENCES THROUGH CONSTRUCTION AREA (TYP). DURING CONSTRUCTION IN FRONT OF DRIVEWAYS, COORDINATE WITH PROPERTY OWNER FOR TEMPORARY ALTERNATE ACCESS/PARKING.

(PORTABLE)

SIDEWALK CLOSED AHEAD
CROSS HERE

TEMPORARY CROSSWALK (SEE DETAIL ON TRAFFIC CONTROL DETAILS SHEET)

SIDEWALK CLOSED IN SECTIONS (SEE NOTE 1)

SIDEWALK CLOSED IN SECTIONS

TYPE III BARRICADE

US 7

21+700

21+720

21+680

21+640

21+620

30+160

PHASE I SIDEWALK (ON EXIST.)

PHASE I SIDEWALK (ON EXIST.)

ROAD CLOSED

STA. 21+630
BEGIN SEGMENT C CONSTRUCTION
END SEGMENT B CONSTRUCTION

MATCH LINE 21+615

MATCH LINE 30+149

MATCH LINE 21+735

POT 21+710.844 BK = EQ = 0.240 AHD

POT 21+710.604

VT STATE PLANE GRID N

SEGMENT C TRAFFIC CONTROL: SEE ONE-WAY ALTERNATING TRAFFIC DETAILS ON TRAFFIC CONTROL DETAILS SHEETS

NOTES:
1. AS SECTION OF SIDEWALK ALONG STOREFRONTS IS UNDER CONSTRUCTION, PROVIDE TEMPORARY ADA ACCESSIBLE PEDESTRIAN ACCESS AROUND SIDEWALK UTILIZING PARKING SPACES. PEDESTRIAN ACCESS MUST BE PROVIDED AT ALL TIMES TO STOREFRONTS FROM OFF-STREET PARKING AT 21+700 RT AND LOT-A PARKING LOT DURING CONSTRUCTION OF SEGMENT C.

2. ONE-WAY ALTERNATING TRAFFIC WILL BE ALLOWED FOR NIGHTTIME OPERATIONS ONLY. TWO LANES OF TRAFFIC AND ALL ON STREET PARKING SHALL BE RESTORED BY MORNING.

LEGEND

- PHASE I CONSTRUCTION
- TEMPORARY WIDENING FOR PHASE I TRAFFIC
- TEMPORARY WIDENING FOR PHASE II TRAFFIC
- PHASE I TPAR
- PHASE I TRAFFIC
- CHANNELIZING DEVICES
- TPAR BARRIER WITH TL-2 END TREATMENT
- TEMPORARY CONCRETE BARRIER WITH ATTENTUATOR
- TEMPORARY CENTERLINE
- TEMPORARY EDGE LINE
- LIMIT OF SHIFTED TRAFFIC AREA (INCL. BARRELS/BARRIER)
- FLAGGER STATION (MOVES DAILY AS CONSTRUCTION PROGRESSES)
- TEMPORARY CONSTRUCTION LIMITS

0 10 20 30
SCALE IN METERS

SEGMENT C PHASE I TRAFFIC CONTROL PLAN 9

PROJECT NAME: BRANDON
PROJECT NUMBER: NH 019-3(496)

FILE NAME: zb008s6-tcp.dgn
PROJECT LEADER: C. BEAN
DESIGNED BY: J. FOWLER
PLOT DATE: 2/23/2017
DRAWN BY: J. FOWLER
CHECKED BY: J.FRYER
SHEET 424 OF 601

CLD 02-0448 MODEL: C-1-09

ISSUED FOR CONSTRUCTION

VAOT Metric

VT STATE PLANE GRID N

SEGMENT C TRAFFIC CONTROL: SEE ONE-WAY ALTERNATING TRAFFIC DETAILS ON TRAFFIC CONTROL DETAILS SHEETS

NOTES:
1. PROVIDE UTO AT WEST SEMINARY STREET INTERSECTION WHEN CONTRUCTION PROGRESSES TO VICINITY OF INTERESTION.

2. ONE-WAY ALTERNATING TRAFFIC WILL BE ALLOWED FOR NIGHTTIME OPERATIONS ONLY. TWO LANES OF TRAFFIC AND ALL ON STREET PARKING SHALL BE RESTORED BY MORNING.

MATCH LINE 21+735

MATCH LINE 21+870

STA. 21+840
END BRIDGE 114
CONSTRUCTION

(PORTABLE)
SIDEWALK CLOSED AHEAD
CROSS HERE

TYPE III BARRICADE

STA. 21+805
END SEGMENT C
CONSTRUCTION
BEGIN BRIDGE 114
CONSTRUCTION

SIDEWALK CLOSED IN SECTIONS (SEE NOTE 1 ON PREVIOUS SHEET)

EXISTING CROSSWALKS TO REMAIN OPEN
SEE NOTE 1

PHASE I SIDEWALK (ON EXISTING)

TEMPORARY CROSSWALK (SEE DETAIL ON TRAFFIC CONTROL DETAILS SHEETS)

21+740

21+820

21+860

9+040

9+080

9+100

WEST SEMINARY STREET TH-69

9 + 090.000
LIMIT OF WORK

LEGEND

- PHASE I CONSTRUCTION
- TEMPORARY WIDENING FOR PHASE I TRAFFIC
- TEMPORARY WIDENING FOR PHASE II TRAFFIC
- PHASE I TPAR
- PHASE I TRAFFIC
- CHANNELIZING DEVICES
- TPAR BARRIER WITH TL-2 END TREATMENT
- TEMPORARY CONCRETE BARRIER WITH ATTENTUATOR
- TEMPORARY CENTERLINE
- TEMPORARY EDGE LINE
- LIMIT OF SHIFTED TRAFFIC AREA (INCL. BARRELS/BARRIER)
- FLAGGER STATION (MOVES DAILY AS CONSTRUCTION PROGRESSES)
- TEMPORARY CONSTRUCTION LIMITS

0 10 20 30
SCALE IN METERS

SEGMENT C PHASE I TRAFFIC CONTROL PLAN 10

PROJECT NAME: BRANDON
PROJECT NUMBER: NH 019-3(496)

FILE NAME: zb008s6-tcp.dgn
PROJECT LEADER: C. BEAN
DESIGNED BY: J. FOWLER
PLOT DATE: 2/23/2017
DRAWN BY: J. FOWLER
CHECKED BY: J.FRYER
SHEET 425 OF 601

CLD 02-0448 MODEL: C-1-10

ISSUED FOR CONSTRUCTION

VAOT Metric

VT STATE PLANE GRID

SEGMENT C TRAFFIC CONTROL:
SEE ONE-WAY ALTERNATING TRAFFIC DETAILS ON TRAFFIC CONTROL DETAILS SHEETS

NOTES:
1. DURING ONE-WAY ALTERNATING TRAFFIC IN VICINITY OF SIGNALIZED UNION/ CARVER STREET INTERSECTION, INTERSECTION SHALL BE UTO CONTROLLED (SIGNALS IN FLASHER MODE).

2. ONE-WAY ALTERNATING TRAFFIC WILL BE ALLOWED FOR NIGHTTIME OPERATIONS ONLY. TWO LANES OF TRAFFIC AND ALL ON STREET PARKING SHALL BE RESTORED BY MORNING.

SEE NOTE 1

MATCH LINE 21+615

MATCH LINE 30+149

35 + 066.000
LIMIT OF WORK

35+080
TH-5
UNION STREET
35+060
35+040
35+020
34+020
34+040
TH-42 34+060
CARVER ST
US 7
21+540
21+520
21+595
30+140
30+120
30+100
30+080
30+060
LOT-A
STORE FRONTS
BRANDON INN

MATCH LINE 21+510

MATCH LINE 30+058

0 10 20 30
SCALE IN METERS

LEGEND

- PHASE 1 CONSTRUCTION
- PHASE 2 TPAR
- PHASE 1 TRAFFIC
- CHANNELIZING DEVICES
- TPAR BARRIER WITH TL-2 END TREATMENT
- TEMPORARY CONCRETE BARRIER WITH ATTENUATOR
- TEMPORARY CENTERLINE
- TEMPORARY EDGELINE
- LIMIT OF SHIFTED TRAFFIC AREA (INCL. BARRELS/BARRIER)
- FLAGGER STATION (MOVES DAILY AS CONSTRUCTION PROGRESSES)
- TEMPORARY CONSTRUCTION LIMITS

SEGMENT C PHASE 1I TRAFFIC CONTROL PLAN 8

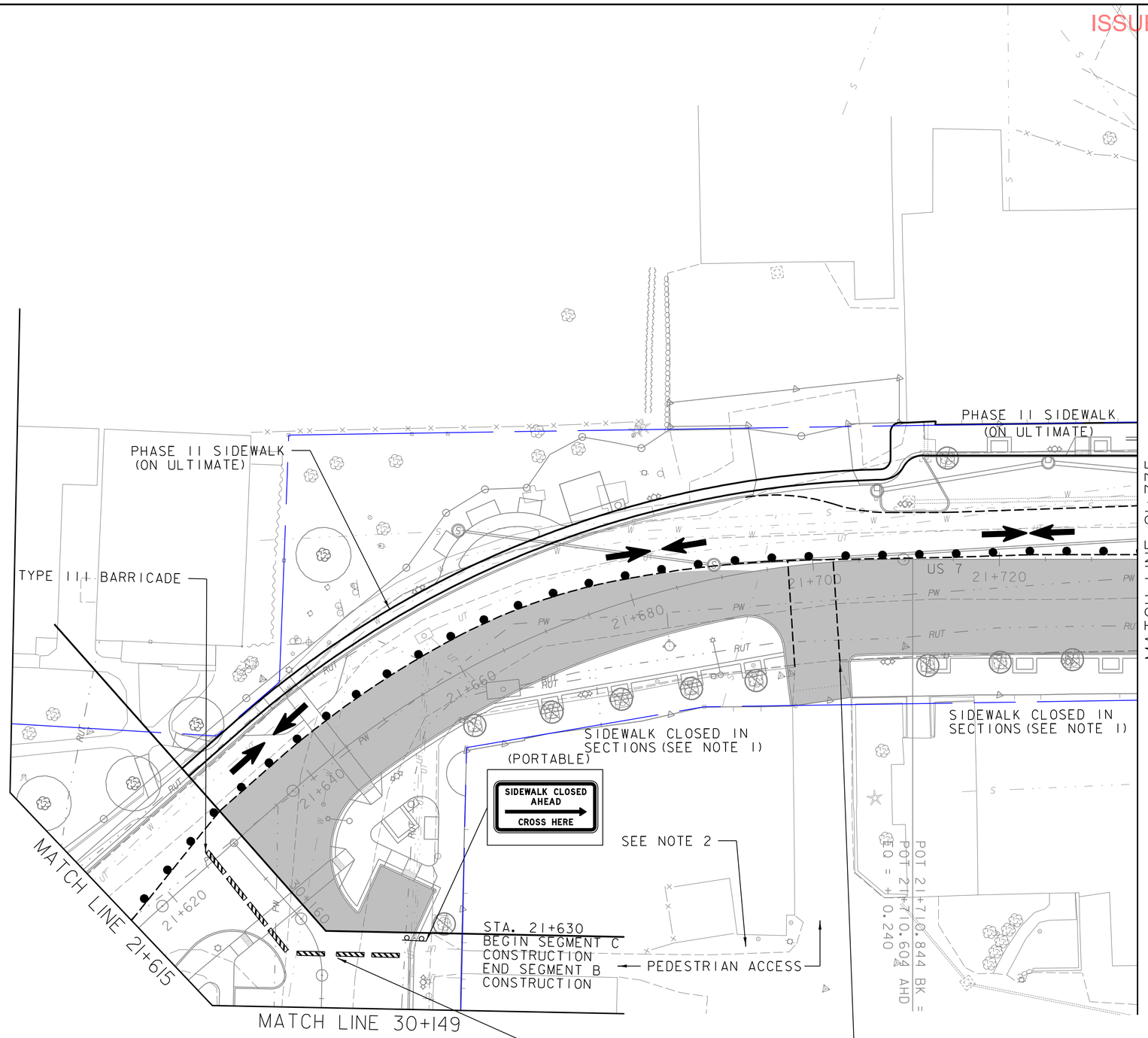
PROJECT NAME: BRANDON
PROJECT NUMBER: NH 019-3(496)

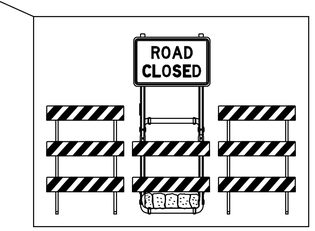
FILE NAME: zb008s6-tcp.dgn
PROJECT LEADER: C. BEAN
DESIGNED BY: J. FOWLER
PLOT DATE: 2/23/2017
DRAWN BY: J. FOWLER
CHECKED BY: J.FRYER
SHEET 426 OF 601

CLD 02-0448 MODEL: C-11-08

ISSUED FOR CONSTRUCTION

VAOT Metric





PROVIDE ACCESS TO BUSINESSES/ RESIDENCES THROUGH CONSTRUCTION AREA. DURING CONSTRUCTION IN FRONT OF DRIVEWAYS, COORDINATE WITH PROPERTY OWNER FOR TEMPORARY ALTERNATE ACCESS/PARKING.

VT STATE PLANE GRID N

SEGMENT C TRAFFIC CONTROL: SEE ONE-WAY TRAFFIC DETAILS ON TRAFFIC CONTROL DETAILS SHEETS

NOTES:

1. AS SECTION OF SIDEWALK ALONG STOREFRONTS IS UNDER CONSTRUCTION, PROVIDE TEMPORARY ADA ACCESSIBLE PEDESTRIAN ACCESS AROUND SIDEWALK UTILIZING PARKING SPACES. PEDESTRIAN ACCESS MUST BE PROVIDED AT ALL TIMES TO STOREFRONTS FROM OFF-STREET PARKING AT 21+700 RT AND LOT-A PARKING LOT DURING CONSTRUCTION OF SEGMENT C.

2. CONTRACTOR MAY ELECT TO PROVIDE ACCESSIBLE PEDESTRIAN ROUTE THROUGH ALLEY WHEN SIDEWALK 21+640 TO 21+700 IS UNDER CONSTRUCTION. CONTRACTOR TO PROVIDE APPROPRIATE SIGNING.

3. ONE-WAY ALTERNATING TRAFFIC WILL BE ALLOWED FOR NIGHTTIME OPERATIONS ONLY. TWO LANES OF TRAFFIC AND ALL ON STREET PARKING SHALL BE RESTORED BY MORNING.

LEGEND

- PHASE II CONSTRUCTION
- PHASE 2 TPAR
- PHASE II TRAFFIC
- CHANNELIZING DEVICES
- TPAR BARRIER WITH TL-2 END TREATMENT
- TEMPORARY CONCRETE BARRIER WITH ATTENUATOR
- TEMPORARY CENTERLINE
- TEMPORARY EDGELINE
- LIMIT OF SHIFTED TRAFFIC AREA (INCL. BARRELS/BARRIER)
- FLAGGER STATION (MOVES DAILY AS CONSTRUCTION PROGRESSES)
- TEMPORARY CONSTRUCTION LIMITS

0 10 20 30

SCALE IN METERS

SEGMENT C PHASE II TRAFFIC CONTROL PLAN 9

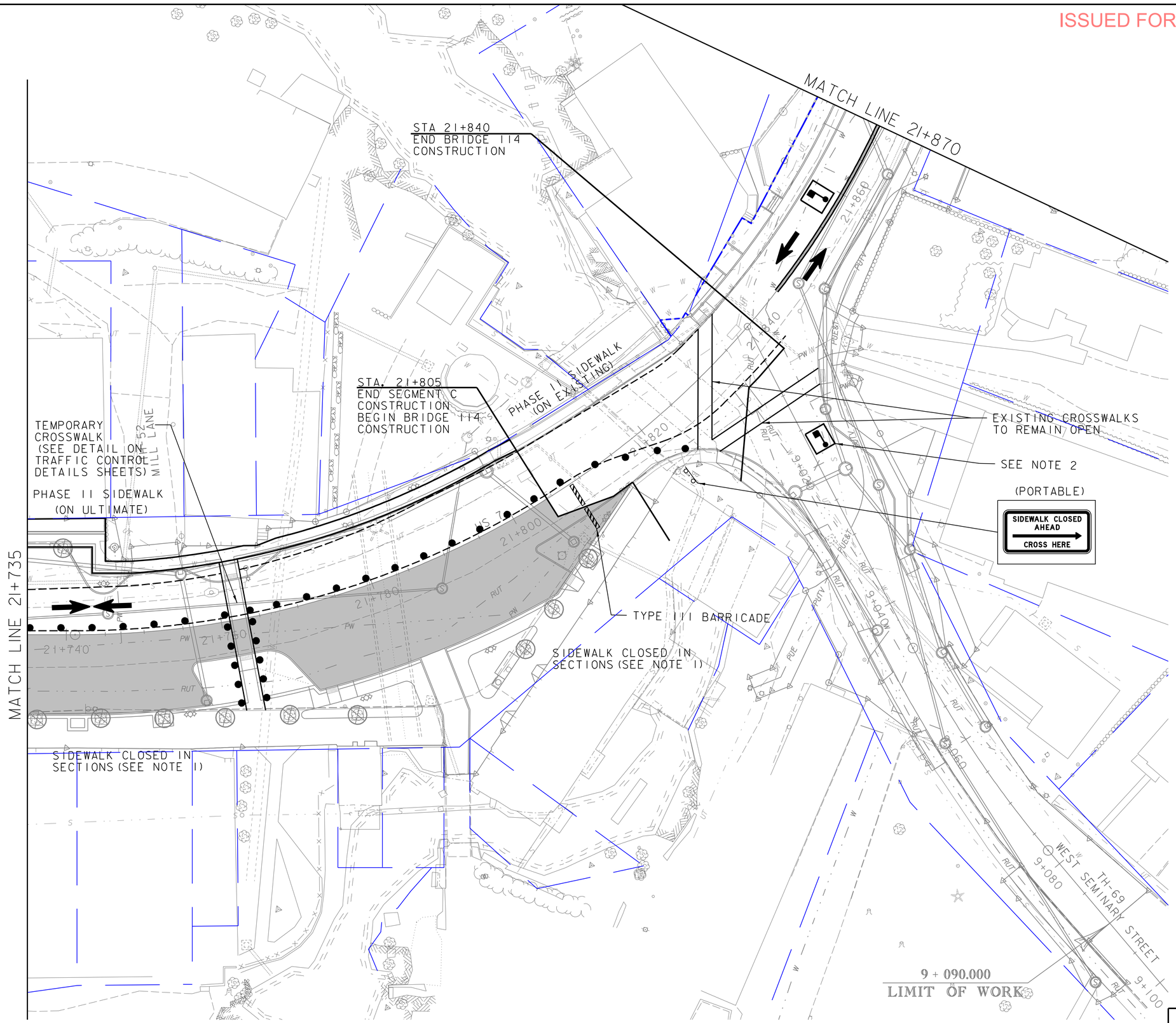
PROJECT NAME: BRANDON
PROJECT NUMBER: NH 019-3(496)

FILE NAME: zb008s6-tcp.dgn
PROJECT LEADER: C. BEAN
DESIGNED BY: J. FOWLER
PLOT DATE: 2/23/2017
DRAWN BY: J. FOWLER
CHECKED BY: J.FRYER
SHEET 427 OF 601

CLD 02-0448 MODEL: C-II-09

ISSUED FOR CONSTRUCTION

VAOT Metric



VT STATE PLANE GRID N

SEGMENT C TRAFFIC CONTROL:
SEE ONE-WAY TRAFFIC DETAILS
ON TRAFFIC CONTROL DETAILS
SHEETS

NOTES:
1. AS SECTION OF SIDEWALK ALONG STOREFRONTS IS UNDER CONSTRUCTION, PROVIDE TEMPORARY ADA ACCESSIBLE PEDESTRIAN ACCESS AROUND SIDEWALK UTILIZING PARKING SPACES. PEDESTRIAN ACCESS MUST BE PROVIDED AT ALL TIMES TO STOREFRONTS FROM OFF-STREET PARKING AT 21+700 RT AND LOT-A PARKING LOT DURING CONSTRUCTION OF SEGMENT C.

2. PROVIDE UTO AT WEST SEMINARY STREET INTERSECTION WHEN CONTRUCTION PROGRESSES TO VICINITY OF INTERESTION.

3. ONE-WAY ALTERNATING TRAFFIC WILL BE ALLOWED FOR NIGHTTIME OPERATIONS ONLY. TWO LANES OF TRAFFIC AND ALL ON STREET PARKING SHALL BE RESTORED BY MORNING.

LEGEND

- PHASE II CONSTRUCTION
- PHASE 2 TPAR
- PHASE II TRAFFIC
- CHANNELIZING DEVICES
- TPAR BARRIER WITH TL-2 END TREATMENT
- TEMPORARY CONCRETE BARRIER WITH ATTENUATOR
- TEMPORARY CENTERLINE
- TEMPORARY EDGELINE
- LIMIT OF SHIFTED TRAFFIC AREA (INCL. BARRELS/BARRIER)
- FLAGGER STATION (MOVES DAILY AS CONSTRUCTION PROGRESSES)
- TEMPORARY CONSTRUCTION LIMITS

0 10 20 30
SCALE IN METERS

SEGMENT C PHASE II TRAFFIC CONTROL PLAN 10

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PROJECT NUMBER: NH 019-3(496)

FILE NAME: zb008s6-tcp.dgn
PROJECT LEADER: C. BEAN
DESIGNED BY: J. FOWLER
PLOT DATE: 2/23/2017
DRAWN BY: J. FOWLER
CHECKED BY: J.FRYER
SHEET 428 OF 601

CLD 02-0448 MODEL: C-II-10

ISSUED FOR CONSTRUCTION

VT STATE PLANE GRID

VAOT Metric

MATCH LINE 21+870

MATCH LINE 21+735

BYPASS PUMP FROM HERE (3)

SEE SEGMENT C UTILITY PHASE

TH-52 MILL

US 7

21+800

21+780

21+760

21+740

2+820

EXISTING UNDERGROUND TELEPHONE (TYP.)

EXISTING WATER MAIN INSTALLED UNDER NH 019-3(496)C/I (TYP.)

4.1 4.2 4.3

WEST SEMINARY STREET

TH-69

9+080

9+100

9 + 090.000

LIMIT OF WORK

0 10 20 30

SCALE IN METERS

NOTE:
THESE PLANS DEPICT, FOR EACH SEGMENT, A POSSIBLE SEQUENCING OF TRAFFIC CONTROL FOR INSTALLATION OF UNDERGROUND UTILITIES, INCLUDING SEWER, WATER, DRAINAGE, AND UNDERGROUND ELECTRIC AND COMMUNICATIONS (WHERE APPLICABLE) IN ADVANCE OF THE ROADWAY RECONSTRUCTION WORK EFFORT AND INCLUDE SUGGESTED TRAFFIC CONTROL MEASURES DURING INSTALLATION OF UTILITIES. THESE PLANS SHOULD BE CONSIDERED APPROXIMATE WITH RESPECT TO THE DEPICTED LOCATION OF EXISTING UTILITIES AND FINAL LOCATION OF PROPOSED SERVICES TO RESIDENCES. THE ACTUAL SEQUENCE OF CONSTRUCTION, INCLUDING INSTALLATION OF UNDERGROUND UTILITIES AND SERVICES, SHALL BE DETERMINED BY THE CONTRACTOR BASED ON SELECTED METHODS OF CONSTRUCTION AND BASED ON INFORMATION OBTAINED DURING EXPLORATORY EXCAVATIONS AND ACTUAL FIELD CONDITIONS ENCOUNTERED DURING CONSTRUCTION.

GENERAL

1. UNDERGROUND UTILITIES WILL NEED TO BE INSTALLED IN CONJUNCTION WITH UTILITY WORK FOR SEGMENT B SO THAT AERIAL UTILITIES CAN BE UNDERGROUNDED AND POLES REMOVED IN DOWNTOWN AS INITIAL PHASE OF CONSTRUCTION. SEWER AND DRAINAGE ON WEST SEMINARY STREET SHOULD BE INSTALLED IN CONJUNCTION WITH DUCT BANK INSTALLATION.

2. INSTALLATION OF UTILITIES ALONG US 7 WILL REQUIRE DAYTIME ONE-LANE ALTERNATING TRAFFIC CONTROL WITH FLAGGERS IN PLACE. OPEN TRENCHES ARE TO BE BACKFILLED OR PLATED AT THE END OF EACH DAY AND TWO-LANE TRAFFIC RESTORED OVERNIGHT. WEST SEMINARY STREET CAN BE CLOSED DURING DAYTIME CONSTRUCTION WITH DETOUR VIA PROSPECT, CEDAR AND WALNUT STREETS WITH PROPER NOTIFICATION AND DETOUR SIGNAGE. PEDESTRIAN ACCESS REQUIRED ON WEST SEMINARY STREET AT ALL TIMES.

3. DURING CONSTRUCTION OF BRIGGS LANE RETAINING WALL, ONE LANE ALTERNATING TRAFFIC WILL BE ALLOWED ON US 7 DURING ACTIVE CONSTRUCTION OPERATIONS ONLY. TWO-WAY TRAFFIC SHALL BE RESTORED FOR ALL NON-WORKING TIMES.

4. ONE-LANE ALTERNATING TRAFFIC LAYOUT AND TPAR'S SHALL CONFORM TO THE PHASE I OR PHASE II TCP LAYOUTS, AS APPROPRIATE. SEE ALSO TYPICAL WORK ZONE LAYOUTS AND TYPICAL SECTIONS FOR ONE-WAY ALTERNATING TRAFFIC ON TRAFFIC CONTROL DETAILS SHEETS.

5. EXISTING ACTIVE WATER MAINS INSTALLED UNDER NH 019-3(496)C/I SHOULD BE PROTECTED/AVOIDED. AVOID AND PROTECT EXISTING UNDERGROUND TELEPHONE LINES (SHOWN DASHED).

6. LOCATION OF PROPOSED SEWER AND WATER SERVICES ARE APPROXIMATE ONLY.

7. NOTE THAT EXCAVATION FOR UTILITY INSTALLATION MAY INCLUDE SAWCUT AND REMOVAL OF EXISTING PORTLAND CEMENT CONCRETE ROADBED DEPENDING ON CONTRACTOR'S CHOICE TO REMOVE SLABS BEFORE UTILITY WORK OR DURING ROADWAY RECONSTRUCTION AFTER UTILITY WORK.

CONSTRUCTION SEQUENCE

SEE NEXT SHEET

AVOID/PROTECT EXISTING UNDERGROUND TELEPHONE

UTILITY POLE TO REMAIN IN PLACE UNTIL OVERHEAD UTILITIES UNDERGROUNDED

SEGMENT D UTILITY PHASE TRAFFIC CONTROL PLAN 10

PROJECT NAME: BRANDON
PROJECT NUMBER: NH 019-3(496)

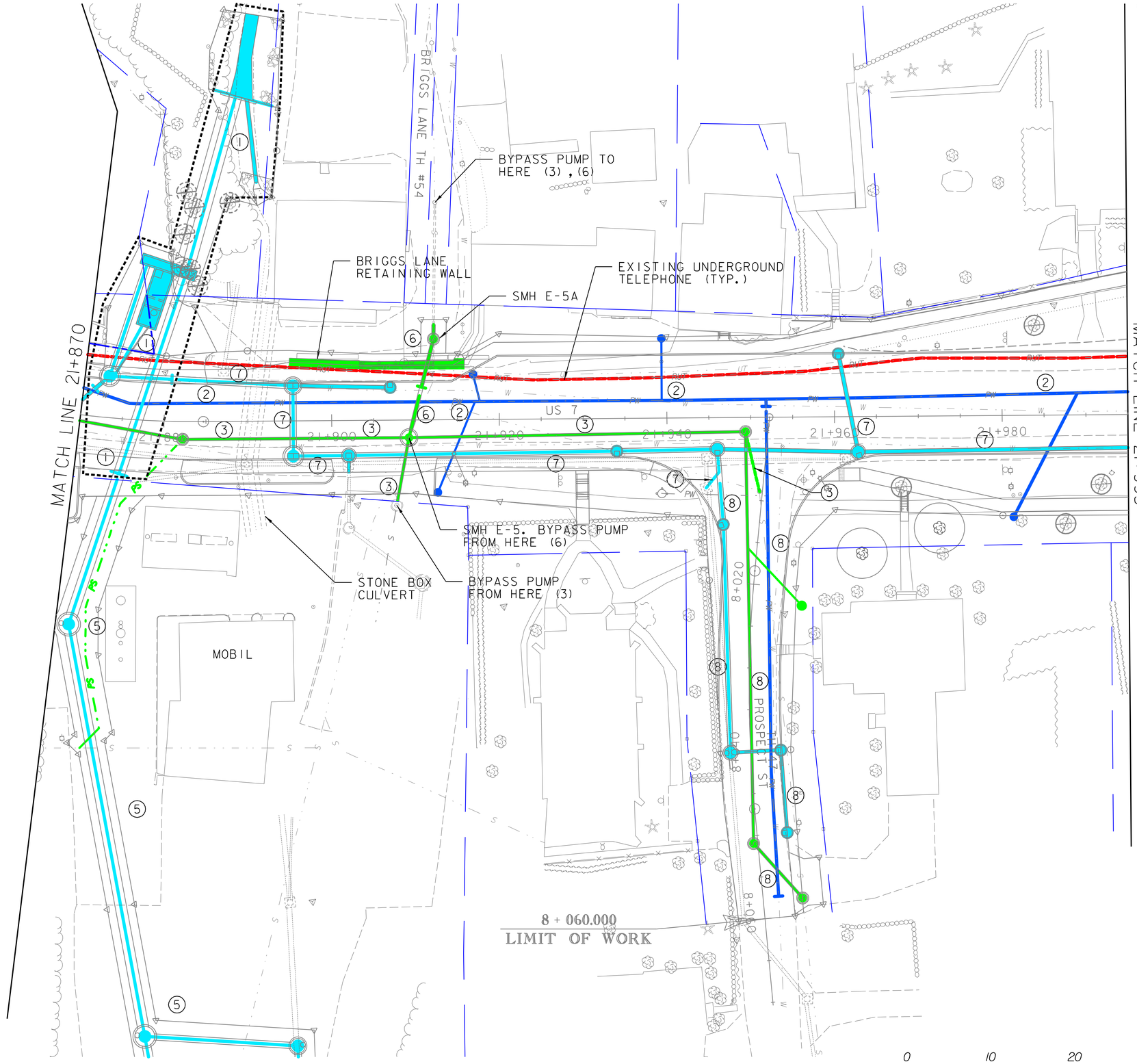
FILE NAME: zb008s6-tcp.dgn
PROJECT LEADER: C. BEAN
DESIGNED BY: J. FOWLER

PLOT DATE: 2/23/2017
DRAWN BY: J. FOWLER
CHECKED BY: J.FRYER
SHEET 429 OF 601

CLD 02-0448 MODEL: D-0-10

ISSUED FOR CONSTRUCTION

VAOT Metric



CONSTRUCTION SEQUENCE

1. DEEP DRAINAGE
INSTALL DEEP DRAINAGE FROM OUTFALL ACROSS US 7 TO LOCATION SHOWN. CAP INLET PIPES FOR FUTURE CONNECTION (SEE SEQUENCE NUMBERS 4.3 AND 7). EXISTING DRAINAGE WILL REMAIN IN STONE BOX CULVERT DURING THIS WORK. SOME BYPASS PUMPING WILL BE REQUIRED DURING CONSTRUCTION OF OUTFALL HEADWALL.

2. WATER
* EXISTING 250 WATER MAIN WILL BE IMPACTED BY CONSTRUCTION OF BRIGGS LANE RETAINING WALL. EXISTING 200 WATER MAIN WILL BE IMPACTED BY NEW SEWER. THEREFORE, INSTALL NEW WATER MAIN IN ADVANCE OF SEWER AND WALL CONSTRUCTION. EXISTING MAINS TO REMAIN ACTIVE DURING INSTALLATION OF NEW MAIN.
* INSTALL 400 MAIN FROM 21+869 AT END OF PREVIOUSLY INSTALLED MAIN TO 22+010. PRESSURE TEST, SHOCK, DE-CHLORINATE, TEST. CHARGE BY CONNECTING TO 400 MAIN AT 21+869. INSTALL SERVICES INCLUDING 21+850 LT AND 21+855 LT.
* INSTALL WATER INTERCONNECT AT 22+010. THE FOLLOWING WORK IS ENVISIONED FOR CONNECTING NEW 400 WATER MAIN TO EXISTING 200 AND 250 WATER MAINS.
a. INSTALL VALVE AND STUB WITH RESTRAINED CAP ON NEW WATER MAIN.
b. INSTALL 200 X 200 TEE & 200 VALVE (CONNECT TO EXISTING WATER LINE) AND INSTALL 400 X 200 TEE ON NEW MAIN
c. INSTALL 250 X 250 TEE & 250 VALVE (CONNECT TO EXISTING WATER LINE) AND INSTALL 400 X 250 TEE ON NEW MAIN.
d. CUT AND CAP EXISTING WATER MAINS EAST OF TEE LOCATIONS.
*FEED UPSTREAM 200 AND 250 MAINS FROM NEW MAIN. VALVE OFF PROSPECT STREET AND BACK FEED TO SERVICE PROSPECT STREET. 200 AND 250 MAINS ARE NOW INACTIVE WITHIN SEGMENT D. ABANDON OLD MAINS.
*INSTALL SECTION OF NEW 200 WATER MAIN FROM W. SEMINARY STREET MAIN TO LIMIT OF WORK AT 9+010 LT.

3. DEEP SEWER
* BYPASS PUMP TO EXISTING BRIGGS LANE SMH FROM EXISTING SMH (MOBIL) AND FROM EXISTING SMH AT 21+845 AND INSTALL NEW SMH AT 21+909 RT (E-5). INSTALL PROPOSED SEWER FROM E-5 UP TO 21+847 (INCLUDING SMHS AT 21+882 AND 21+847) AND UP TO 21+950 (INCLUDING SMH AT 21+950).
* TEMPORARILY CONNECT TO DEEP US 7 CROSS COUNTRY SEWER JUST SOUTH OF E-5 WITH CHIMNEY AND FERNCO. TEMPORARY CONNECT INTO WEST SEMINARY SEWER AT SMH AT 21+845 RT AND TO EXISTING PROSPECT STREET SMH. CONNECT E-5 TO EXISTING MOBIL SMH. CEASE BYPASS PUMPING. E-5 IS CONSIDERED ACTIVE AT THIS TIME WITH ALL FLOW FROM WEST SEMINARY, CROSS COUNTRY, AND PROSPECT STREET AND CAN BE USED DURING WALL CONSTRUCTION AS SINGLE BYPASS PUMP LOCATION.

AVOID/PROTECT EXISTING UNDERGROUND TELEPHONE

SEGMENT D UTILITY PHASE TRAFFIC CONTROL PLAN II

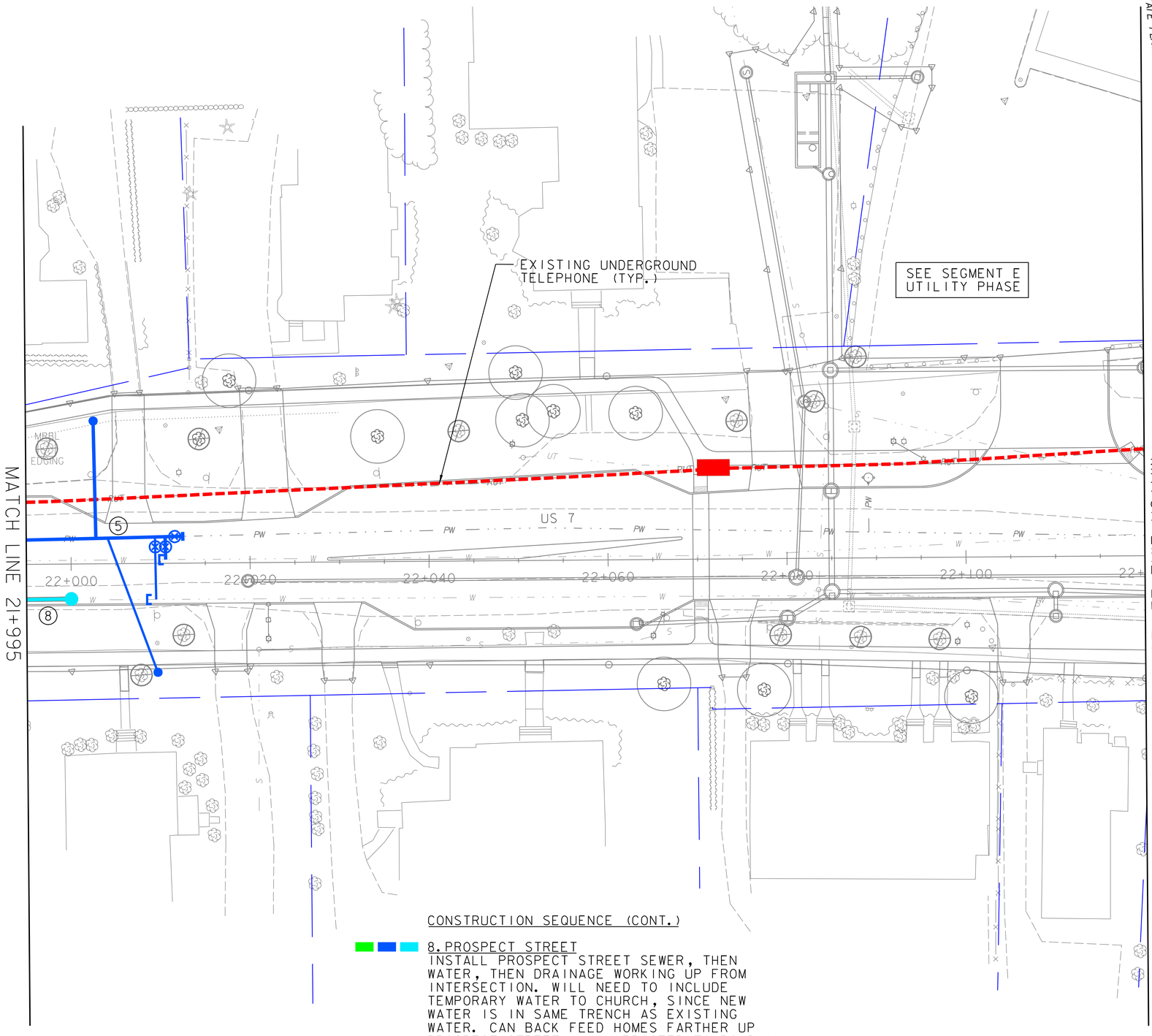
PROJECT NAME: BRANDON
PROJECT NUMBER: NH 019-3(496)

FILE NAME: zb008s6-tcp.dgn
PROJECT LEADER: C. BEAN
DESIGNED BY: J. FOWLER
PLOT DATE: 2/23/2017
DRAWN BY: J. FOWLER
CHECKED BY: J.FRYER
SHEET 430 OF 601

CLD 02-0448 MODEL: D-0-II

ISSUED FOR CONSTRUCTION

VAOT Metric



CONSTRUCTION SEQUENCE (CONT.)

8. PROSPECT STREET
INSTALL PROSPECT STREET SEWER, THEN WATER, THEN DRAINAGE WORKING UP FROM INTERSECTION. WILL NEED TO INCLUDE TEMPORARY WATER TO CHURCH, SINCE NEW WATER IS IN SAME TRENCH AS EXISTING WATER. CAN BACK FEED HOMES FARTHER UP PROSPECT STREET. MAY PROCEED TO ROADWAY BOX CONSTRUCTION OF PROSPECT STREET DIRECTLY AFTER INSTALLING UTILITIES (PROSPECT STREET CAN BE CLOSED TO VEHICULAR TRAFFIC DURING CONSTRUCTION WITH DETOUR VIA WEST SEMINARY, WALNUT, AND CEDAR STREETS).

CONSTRUCTION SEQUENCE (CONT.)

4. WEST SEMINARY STREET

4.1. WEST SEMINARY STREET SEWER
* INSTALL SEWER FROM SMH AT 21+847 TO 9+094 AND REMOVE TEMPORARY PIPE AND EXISTING SMH AT 21+845 RT. COORDINATE WITH PROPERTY OWNERS ABOUT TEMPORARY DISRUPTION OF SERVICE.
* FLOW FILL OLD MAIN.
* SEWER INSTALLATION WILL REQUIRE TRENCH EXCAVATION OF ROCK WITH BLASTING.

4.2. UNDERGROUND UTILITIES
INSTALL DUCTS SO THAT UTILITY COMPANIES CAN PULL CABLE AND HAVE UNDERGROUND SYSTEM IN PLACE PRIOR TO RELOCATING POLESIN DOWNTOWN. NOTE THAT DUCT BANK MUST BE INSTALLED ABOVE EXISTING WATER MAIN AND BELOW PROPOSED DRAINAGE PIPES.

4.3. DRAINAGE
INSTALL DRAINAGE ON WEST SEMINARY STREET AND CONNECT TO DRAINAGE PIPE INSTALLED UNDER SEQUENCE NOTE NO. 1 AT 21+871. EXISTING DRAINAGE AT 21+846 RT MAY NEED TO REMAIN UNTIL ROAD REGRADING FOR SEGMENT D COMMENCES.

5. CROSS COUNTRY DRAINAGE
INSTALL REMAINING CROSS COUNTRY DRAINAGE AND SEWER LATERAL FROM HOUSE TO SMH AT 21+882. DIVERT STREAM FROM STONE BOX CULVERT TO NEW DRAINAGE.

6. BRIGGS LANE WALL/SEWER
* SHORT-TERM BYPASS PUMP IF/AS NEEDED FROM SMH E-5 TO EXISTING BRIGGS LANE SMH AND INSTALL EARTH SUPPORT FOR WALL CONSTRUCTION AND REMOVE OLD WALL. LOCATE AND PROTECT EXISTING SEWER UNDER WALL. INSTALL NEW SEWER WITHIN LIMITS OF WALL CONSTRUCTION CAPPED AT UPSTREAM END FOR FUTURE CONNECTION.
* INSTALL NEW SMH E-5A. TEMPORARILY CONNECT EXISTING SEWER TO E-5A. THIS CONNECTION ALLOWS WALL TO BE CONSTRUCTED WITHOUT LONG-TERM BYPASS PUMPING OUT OF E-5. NEW SEWER DROPS INTO E-5A (ULTIMATE PROFILE) BUT WILL NOT BE ACTIVE UNTIL WALL IS CONSTRUCTED, SHEETING PULLED, AND FINAL SEWER ACROSS US 7 INSTALLED AT WHICH TIME EXISTING SEWER IS FLOW FILLED AND TEMPORARY CONNECTION TO E-5A IS BLOCKED UP.
* CEASE BYPASS PUMPING DURING WALL CONSTRUCTION (WEEKS). FINISH WALL AND PULL EARTH SUPPORT.
* BYPASS PUMP FROM SMH E-5 TO BRIGGS LANE SMH AND INSTALL SEWER ACROSS US 7 CONNECTING TO CAPPED END INSTALLED ABOVE. FLOW FILL OLD SEWER.

7. US 7 STREET DRAINAGE
INSTALL US 7 DRAINAGE SYSTEM FROM CAPPED PIPE AT 21+880 LT WORKING UP STATION WITH TEMPORARY CONNECTIONS AS NEEDED. ADD TEMPORARY CONNECTION TO EXISTING DI ON PROSPECT STREET. FLOW FILL STONE BOX CULVERT.

AVOID/PROTECT EXISTING UNDERGROUND TELEPHONE

0 10 20 30
SCALE IN METERS

SEGMENT D UTILITY PHASE TRAFFIC CONTROL PLAN 12

PROJECT NAME: BRANDON
PROJECT NUMBER: NH 019-3(496)

FILE NAME: zb008s6-tcp.dgn
PROJECT LEADER: C. BEAN
DESIGNED BY: J. FOWLER
PLOT DATE: 2/23/2017
DRAWN BY: J. FOWLER
CHECKED BY: J.FRYER
SHEET 431 OF 601

CLD 02-0448 MODEL: D-0-12

ISSUED FOR CONSTRUCTION

VAOT Metric

21+840 LT
BEGIN TEMPORARY WIDENING
FOR PHASE II TRAFFIC

MATCH LINE 21+870

SIDEWALK
CLOSED IN
SECTIONS

STA. 21+840
END BRIDGE 114
CONSTRUCTION
BEGIN SEGMENT D
CONSTRUCTION

TYPE III BARRICADE

CLOSE EXISTING
CROSSWALK

PHASE I SIDEWALK
(ON EXISTING)

STA. 21+805
BEGIN BRIDGE
CONSTRUCTION

(PORTABLE)
SIDEWALK CLOSED AHEAD
CROSS HERE

EXISTING
CROSSWALK

SEE NOTE 1

EXISTING CROSSWALK
TO REMAIN OPEN

TH-52
MILL LANE

US 7

MATCH LINE 21+735

9 + 090.000
LIMIT OF WORK

WEST SEMINARY STREET
TH-69
9+080

VT STATE PLANE GRID
N

SEGMENT D TRAFFIC CONTROL:
SEE ONE-WAY ALTERNATING
TRAFFIC DETAILS ON TRAFFIC
CONTROL DETAILS SHEETS

NOTES:
1. PROVIDE UTO AT WEST SEMINARY
INTERSECTION WHEN CONSTRUCTION
PROGRESSES TO VICINITY OF
INTERSECTION.

LEGEND

- PHASE I CONSTRUCTION
- TEMPORARY WIDENING FOR PHASE I TRAFFIC
- TEMPORARY WIDENING FOR PHASE II TRAFFIC
- PHASE I TPAR
- PHASE I TRAFFIC
- CHANNELIZING DEVICES
- TPAR BARRIER WITH TL-2 END TREATMENT
- TEMPORARY CONCRETE BARRIER WITH ATTENUATOR
- TEMPORARY CENTERLINE
- TEMPORARY EDGE LINE
- LIMIT OF SHIFTED TRAFFIC AREA (INCL. BARRELS/BARRIER)
- FLAGGER STATION (MOVES DAILY AS CONSTRUCTION PROGRESSES)
- TEMPORARY CONSTRUCTION LIMITS

0 10 20 30
SCALE IN METERS

SEGMENT D PHASE I TRAFFIC CONTROL PLAN 10

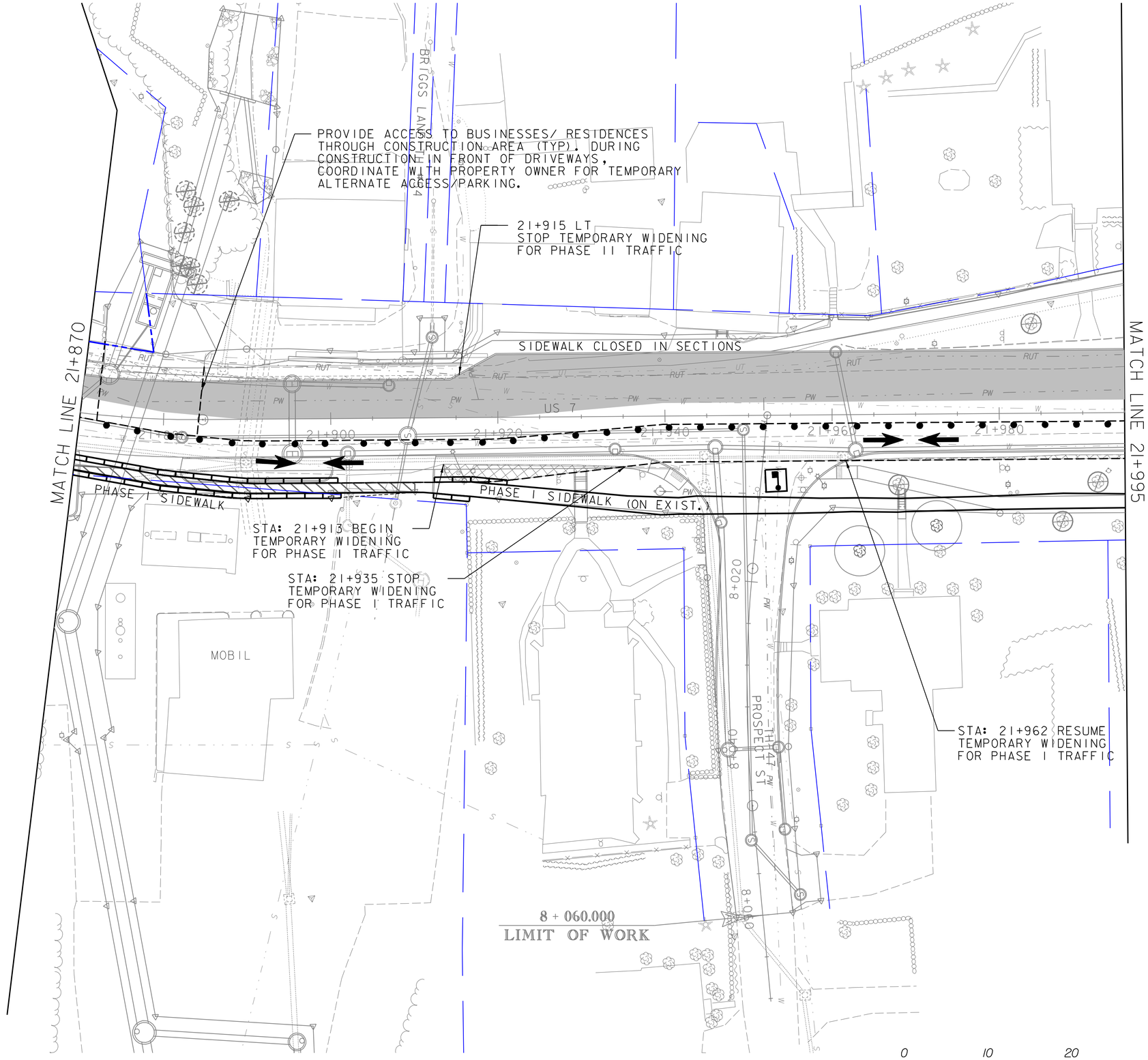
PROJECT NAME: BRANDON
PROJECT NUMBER: NH 019-3(496)

FILE NAME: zb008s6-tcp.dgn
PROJECT LEADER: C. BEAN
DESIGNED BY: J. FOWLER
PLOT DATE: 2/23/2017
DRAWN BY: J. FOWLER
CHECKED BY: J.FRYER
SHEET 432 OF 601

CLD 02-0448 MODEL: D-I-10

ISSUED FOR CONSTRUCTION

VAOT Metric



SEGMENT D TRAFFIC CONTROL:
SEE ONE-WAY ALTERNATING
TRAFFIC DETAILS ON TRAFFIC
CONTROL DETAILS SHEETS

LEGEND

- PHASE I CONSTRUCTION
- TEMPORARY WIDENING FOR PHASE I TRAFFIC
- TEMPORARY WIDENING FOR PHASE II TRAFFIC
- PHASE I TPAR
- PHASE I TRAFFIC
- CHANNELIZING DEVICES
- TPAR BARRIER WITH TL-2 END TREATMENT
- TEMPORARY CONCRETE BARRIER WITH ATTENTUATOR
- TEMPORARY CENTERLINE
- TEMPORARY EDGE LINE
- LIMIT OF SHIFTED TRAFFIC AREA (INCL. BARRELS/BARRIER)
- FLAGGER STATION (MOVES DAILY AS CONSTRUCTION PROGRESSES)
- TEMPORARY CONSTRUCTION LIMITS

0 10 20 30
SCALE IN METERS

SEGMENT D PHASE I TRAFFIC CONTROL PLAN II

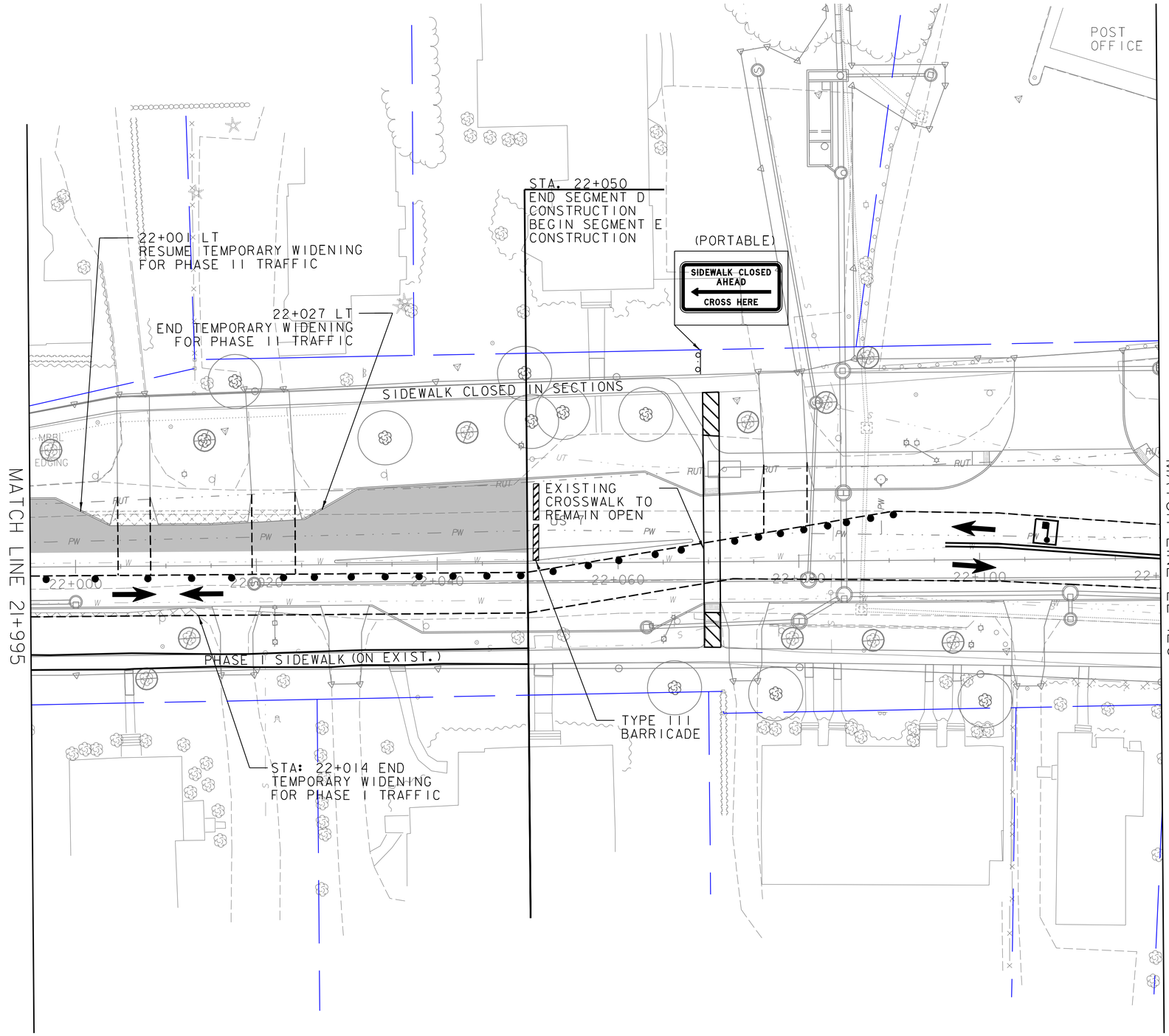
PROJECT NAME: BRANDON
PROJECT NUMBER: NH 019-3(496)

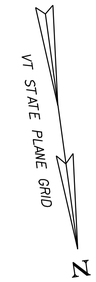
FILE NAME: zb008s6-tcp.dgn
PROJECT LEADER: C. BEAN
DESIGNED BY: J. FOWLER
PLOT DATE: 2/23/2017
DRAWN BY: J. FOWLER
CHECKED BY: J.FRYER
SHEET 433 OF 601

CLD 02-0448 MODEL: D-I-II

ISSUED FOR CONSTRUCTION

VAOT Metric





SEGMENT D TRAFFIC CONTROL:
SEE ONE-WAY ALTERNATING TRAFFIC DETAILS ON TRAFFIC CONTROL DETAILS SHEETS

LEGEND

- PHASE I CONSTRUCTION
- TEMPORARY WIDENING FOR PHASE I TRAFFIC
- TEMPORARY WIDENING FOR PHASE II TRAFFIC
- PHASE I TPAR
- PHASE I TRAFFIC
- CHANNELIZING DEVICES
- TPAR BARRIER WITH TL-2 END TREATMENT
- TEMPORARY CONCRETE BARRIER WITH ATTENTUATOR
- TEMPORARY CENTERLINE
- TEMPORARY EDGE LINE
- LIMIT OF SHIFTED TRAFFIC AREA (INCL. BARRELS/BARRIER)
- FLAGGER STATION (MOVES DAILY AS CONSTRUCTION PROGRESSES)
- TEMPORARY CONSTRUCTION LIMITS

0 10 20 30

SCALE IN METERS

SEGMENT D PHASE I TRAFFIC CONTROL PLAN 12

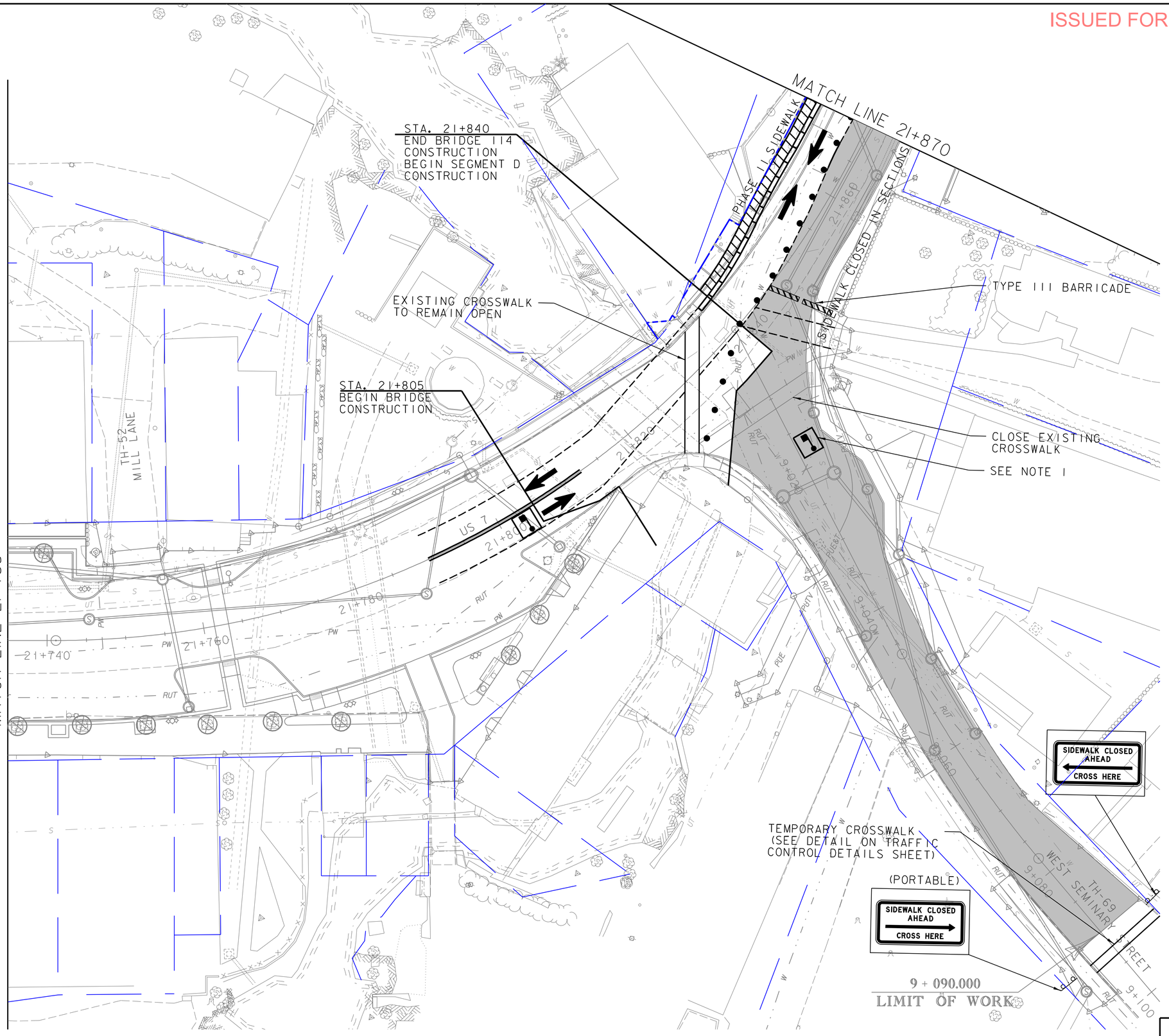
PROJECT NAME: BRANDON
PROJECT NUMBER: NH 019-3(496)

FILE NAME: zb008s6-tcp.dgn
PROJECT LEADER: C. BEAN
DESIGNED BY: J. FOWLER
PLOT DATE: 2/23/2017
DRAWN BY: J. FOWLER
CHECKED BY: J.FRYER
SHEET 434 OF 601

CLD 02-0448 MODEL: D-1-12

ISSUED FOR CONSTRUCTION

VAOT Metric



SEGMENT D TRAFFIC CONTROL:
SEE ONE-WAY ALTERNATING TRAFFIC DETAILS ON TRAFFIC CONTROL DETAILS SHEETS

WEST SEMINARY STREET:
CONTRACTOR MAY ELECT TO UTILIZE TEMPORARY CLOSURE DURING CONSTRUCTION WITH ACCESS TO WEST SEMINARY STREET VIA PROSPECT STREET/CEDAR STREET DETOUR. AT LEAST ONE SIDEWALK SHALL REMAIN OPEN AT ALL TIMES WHILE OTHER SIDEWALK IS UNDER CONSTRUCTION. CONTRACTOR SHALL PROVIDE SPECIFIC TRAFFIC AND PEDESTRIAN DETOUR PLANS FOR UPDATED TRAFFIC MANAGEMENT STRATEGIES. SEE CONSTRUCTION APPROACH SIGNING FOR ADDITIONAL APPROACH SIGN REQUIREMENTS.

NOTES:
1. PROVIDE UTO AT WEST SEMINARY INTERSECTION WHEN CONSTRUCTION PROGRESSES TO VICINITY OF INTERSECTION.

LEGEND

- PHASE II CONSTRUCTION
- PHASE 2 TPAR
- PHASE II TRAFFIC
- CHANNELIZING DEVICES
- TPAR BARRIER WITH TL-2 END TREATMENT
- TEMPORARY CONCRETE BARRIER WITH ATTENUATOR
- TEMPORARY CENTERLINE
- TEMPORARY EDGELINE
- LIMIT OF SHIFTED TRAFFIC AREA (INCL. BARRELS/BARRIER)
- FLAGGER STATION (MOVES DAILY AS CONSTRUCTION PROGRESSES)
- TEMPORARY CONSTRUCTION LIMITS

0 10 20 30
SCALE IN METERS

SEGMENT D PHASE II TRAFFIC CONTROL PLAN 10

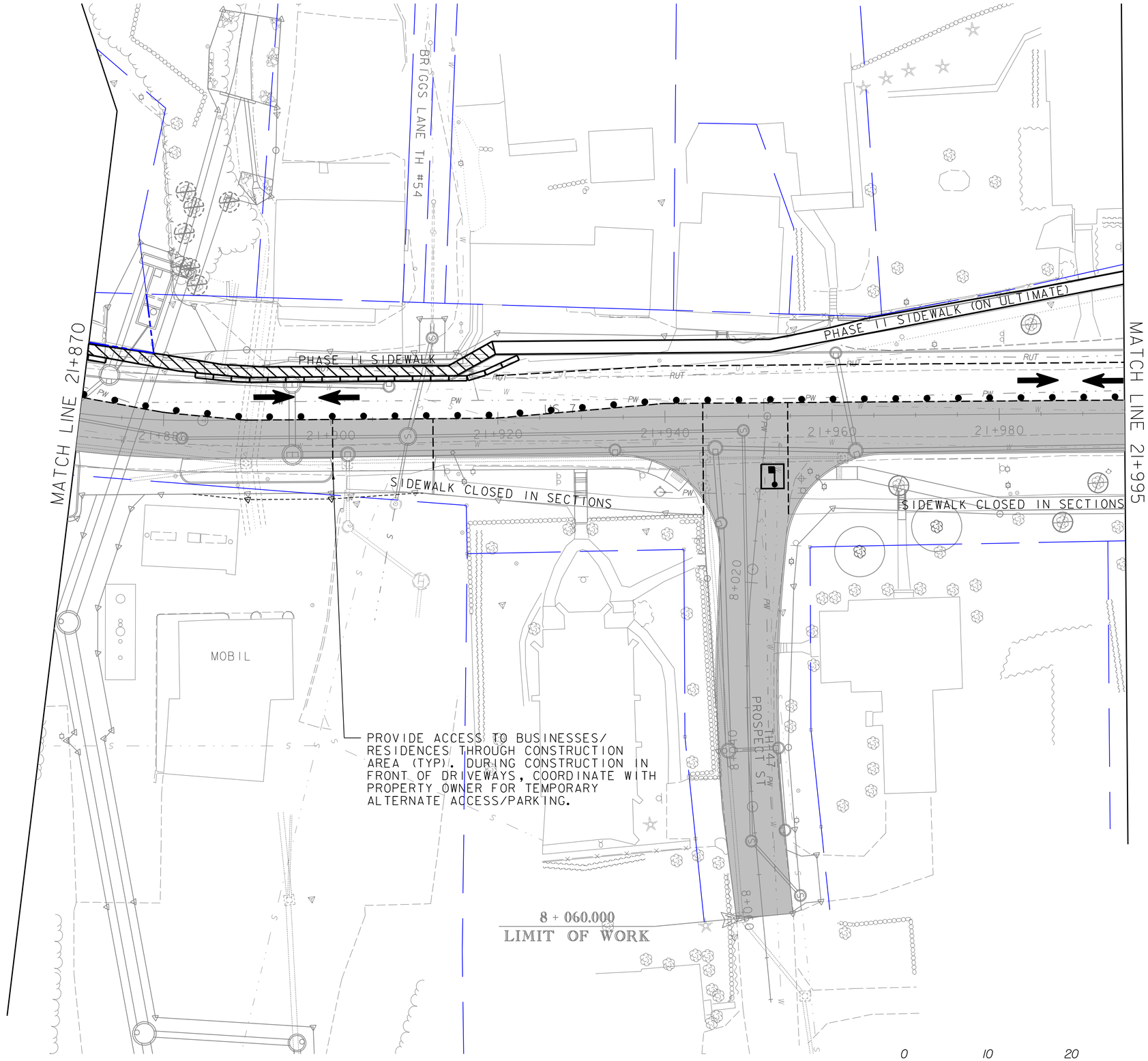
PROJECT NAME: BRANDON
PROJECT NUMBER: NH 019-3(496)

FILE NAME: zb008s6-tcp.dgn
PROJECT LEADER: C. BEAN
DESIGNED BY: J. FOWLER
PLOT DATE: 2/23/2017
DRAWN BY: J. FOWLER
CHECKED BY: J.FRYER
SHEET 435 OF 601

CLD 02-0448 MODEL: D-II-10

ISSUED FOR CONSTRUCTION

VAOT Metric



VT STATE PLANE GRID

N

SEGMENT D TRAFFIC CONTROL:
SEE ONE-WAY ALTERNATING TRAFFIC DETAILS ON TRAFFIC CONTROL DETAILS SHEETS

PROSPECT STREET:
CONTRACTOR MAY ELECT TO UTILIZE TEMPORARY CLOSURE DURING CONSTRUCTION OF US 7 WITHIN INTERSECTION AND DURING CONSTRUCTION OF PROSPECT STREET. ACCESS TO PROSPECT STREET VIA WEST SEMINARY STREET/CEDAR STREET DETOUR. CONTRACTOR SHALL PROVIDE SPECIFIC TRAFFIC AND PEDESTRIAN DETOUR PLANS FOR UPDATED TRAFFIC MANAGEMENT STRATEGIES. SEE CONSTRUCTION APPROACH SIGNING FOR ADDITIONAL APPROACH SIGN REQUIREMENTS.

LEGEND

- PHASE II CONSTRUCTION
- PHASE 2 TPAR
- PHASE II TRAFFIC
- CHANNELIZING DEVICES
- TPAR BARRIER WITH TL-2 END TREATMENT
- TEMPORARY CONCRETE BARRIER WITH ATTENUATOR
- TEMPORARY CENTERLINE
- TEMPORARY EDGELINE
- LIMIT OF SHIFTED TRAFFIC AREA (INCL. BARRELS/BARRIER)
- FLAGGER STATION (MOVES DAILY AS CONSTRUCTION PROGRESSES)
- TEMPORARY CONSTRUCTION LIMITS

0 10 20 30

SCALE IN METERS

SEGMENT D PHASE II TRAFFIC CONTROL PLAN II

PROJECT NAME: BRANDON
PROJECT NUMBER: NH 019-3(496)

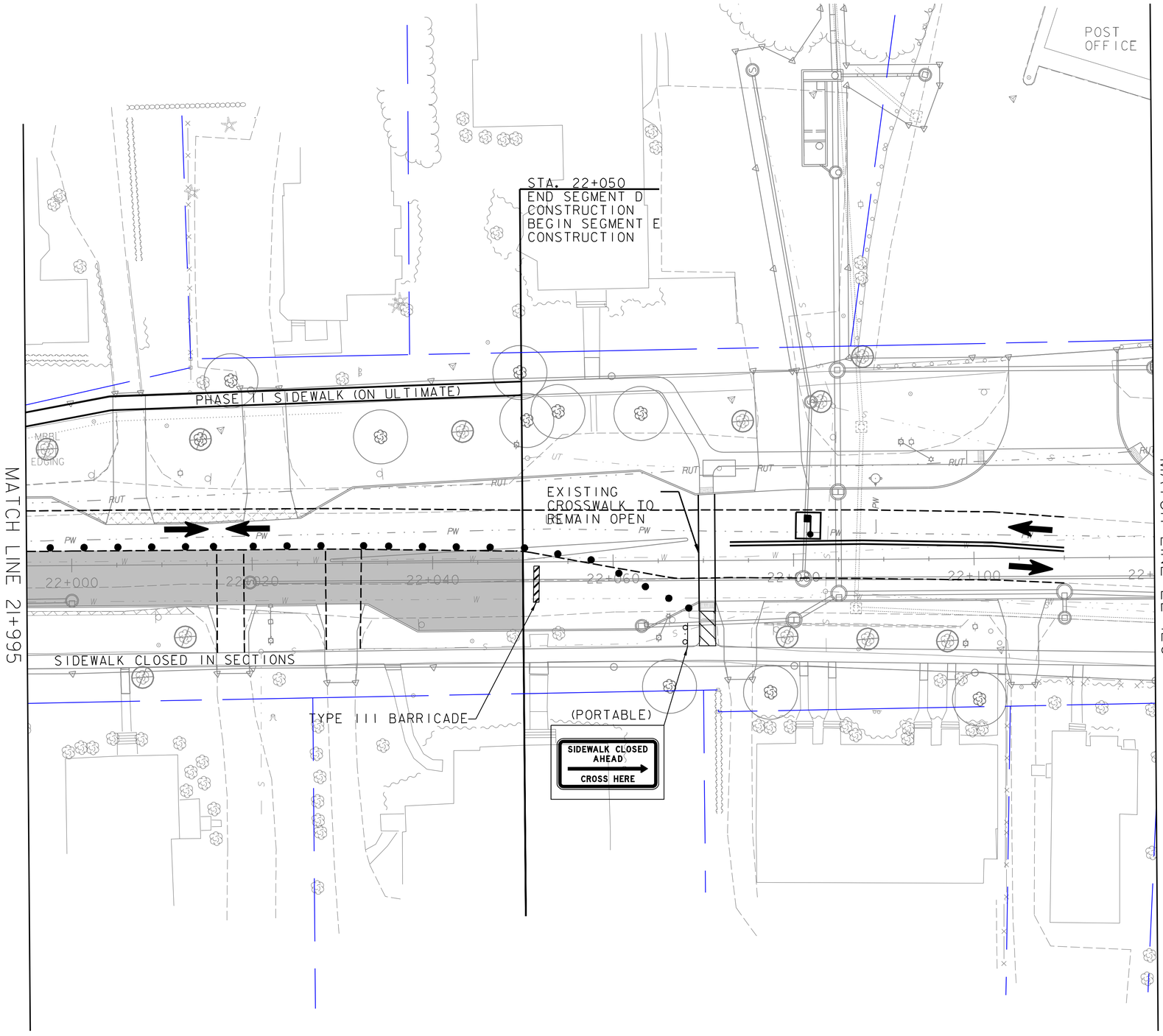
FILE NAME: zb008s6-tcp.dgn
PROJECT LEADER: C. BEAN
DESIGNED BY: J. FOWLER

PLOT DATE: 2/23/2017
DRAWN BY: J. FOWLER
CHECKED BY: J.FRYER
SHEET 436 OF 601

CLD 02-0448 MODEL: D-II-II

ISSUED FOR CONSTRUCTION

VAOT Metric



SEGMENT D TRAFFIC CONTROL: SEE ONE-WAY ALTERNATING TRAFFIC DETAILS ON TRAFFIC CONTROL DETAILS SHEETS

LEGEND

- PHASE II CONSTRUCTION
- PHASE 2 TPAR
- PHASE II TRAFFIC
- CHANNELIZING DEVICES
- TPAR BARRIER WITH TL-2 END TREATMENT
- TEMPORARY CONCRETE BARRIER WITH ATTENUATOR
- TEMPORARY CENTERLINE
- TEMPORARY EDGELINE
- LIMIT OF SHIFTED TRAFFIC AREA (INCL. BARRELS/BARRIER)
- FLAGGER STATION (MOVES DAILY AS CONSTRUCTION PROGRESSES)
- TEMPORARY CONSTRUCTION LIMITS

0 10 20 30

SCALE IN METERS

SEGMENT D PHASE II TRAFFIC CONTROL PLAN 12

PROJECT NAME: BRANDON
PROJECT NUMBER: NH 019-3(496)

FILE NAME: zb008s6-tcp.dgn
PROJECT LEADER: C. BEAN
DESIGNED BY: J. FOWLER

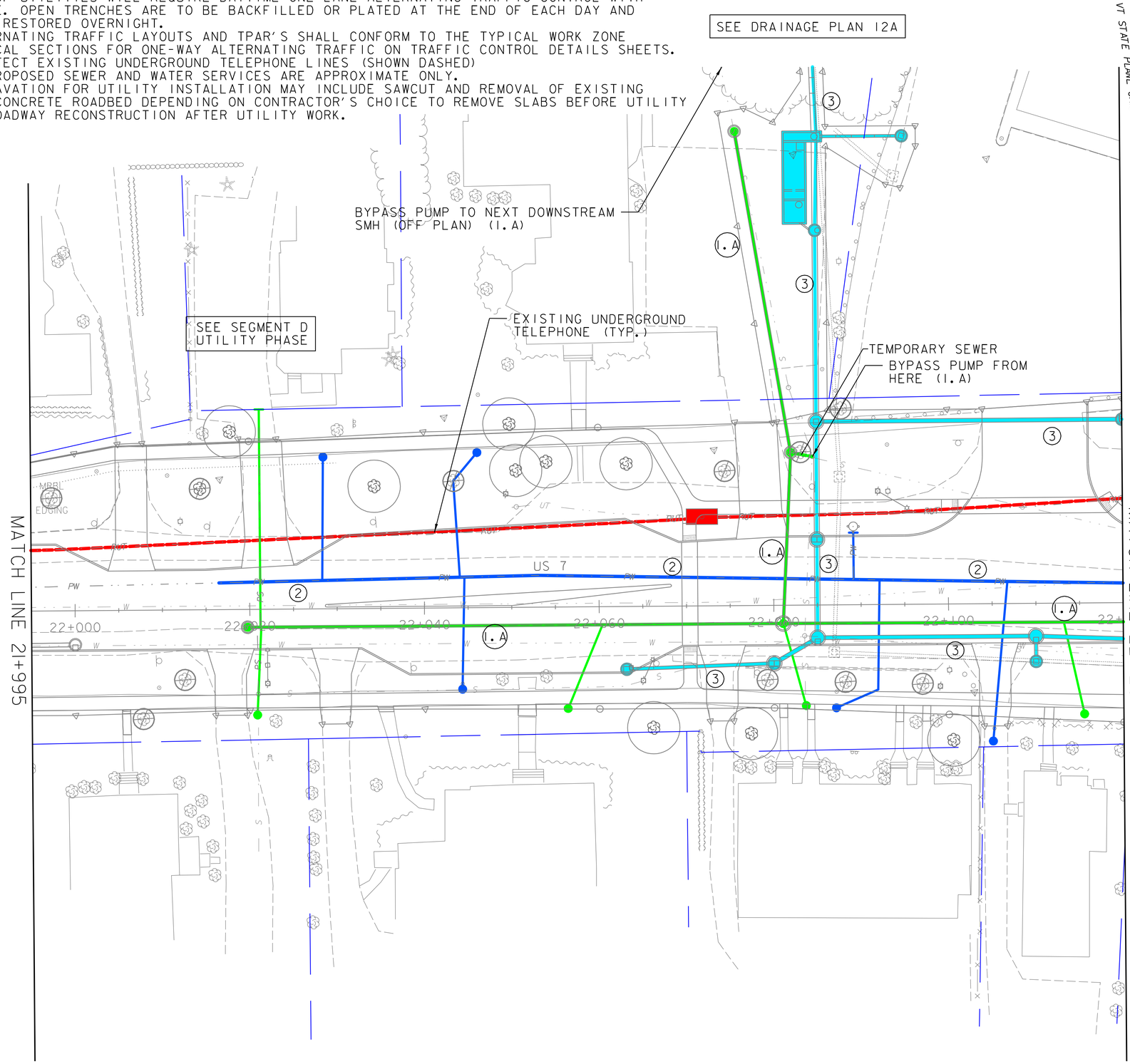
PLOT DATE: 2/23/2017
DRAWN BY: J. FOWLER
CHECKED BY: J.FRYER
SHEET 437 OF 601

CLD 02-0448 MODEL: D-II-12

ISSUED FOR CONSTRUCTION

VAOT Metric

GENERAL
1. INSTALLATION OF UTILITIES WILL REQUIRE DAYTIME ONE-LANE ALTERNATING TRAFFIC CONTROL WITH FLAGGERS IN PLACE. OPEN TRENCHES ARE TO BE BACKFILLED OR PLATED AT THE END OF EACH DAY AND TWO-LANE TRAFFIC RESTORED OVERNIGHT.
2. ONE-LANE ALTERNATING TRAFFIC LAYOUTS AND TPAR'S SHALL CONFORM TO THE TYPICAL WORK ZONE LAYOUTS AND TYPICAL SECTIONS FOR ONE-WAY ALTERNATING TRAFFIC ON TRAFFIC CONTROL DETAILS SHEETS.
3. AVOID AND PROTECT EXISTING UNDERGROUND TELEPHONE LINES (SHOWN DASHED)
4. LOCATION OF PROPOSED SEWER AND WATER SERVICES ARE APPROXIMATE ONLY.
5. NOTE THAT EXCAVATION FOR UTILITY INSTALLATION MAY INCLUDE SAWCUT AND REMOVAL OF EXISTING PORTLAND CEMENT CONCRETE ROADBED DEPENDING ON CONTRACTOR'S CHOICE TO REMOVE SLABS BEFORE UTILITY WORK OR DURING ROADWAY RECONSTRUCTION AFTER UTILITY WORK.



CONSTRUCTION SEQUENCE

1.A SEWER
BYPASS SEWER FROM SMH AT 22+084 LT TO NEXT DOWNSTREAM SMH. INSTALL THE TWO SMHs 22+077 LT AND 22+082 LT. A TEMPORARY PIPE CAN CONNECT EXISTING SMH TO NEW ONE AT 22+082 LT TO THEN CEASE BYPASS PUMPING. INSTALL NEW SEWER FROM 22+020 TO 22+200 INCLUDING SMHs AND SEWER ON VT 73. CONNECT LATERALS. FLOW FILL OLD MAIN 22+020 TO 22+150.

1.B SEWER FORCE MAIN
INSTALL NEW FORCE MAIN FROM 18+052 TO 18+103. CONNECT TO EXISTING FORCE MAIN AT 18+103 AND DISCHARGE INTO SEWER MANHOLE F11 AT 18+052. EXISTING FORCE MAIN REMAINS ACTIVE UNTIL NEW MAIN IS INSTALLED. FLOW FILL OLD FORCE MAIN.

1.C SEWER
* BYPASS PUMP FROM EXISTING SMH AT 22+300 RT TO NEW SMH AT 22+200 AND INSTALL NEW SEWER FROM 22+200 TO 22+256. CONNECT EXISTING SEWER TO NEW SMH WITH TEMPORARY PIPE AT 22+256. CEASE BYPASS PUMPING.
* INSTALL NEW SMH AT 19+059 RT OVER EXISTING MAIN AND INTERCEPT SERVICE FROM RESIDENCE AT 19+060 RT.
* REMOVE OLD SMHs AND FLOW FILL OLD MAINS.

2. WATER
* EXISTING MAINS CAN REMAIN ACTIVE DURING INSTALLATION OF NEW MAIN. EXISTING INTERCONNECT BETWEEN 200 AND 250 MAINS AT 18+016 LT CAN BE REMOVED IF NECCESSARY.
* INSTALL WATER FROM PREVIOUSLY CAPPED SEGMENT D MAIN AT 22+015 TO 22+230, INCLUDING PEARL STREET AND VT-73. CAP OFF NEW MAIN AT 22+230. PRESSURE TEST, SHOCK, DECHLORINATE, TEST.
* CHARGE BY CONNECTING TO MAIN AT 22+015. TIE IN SERVICES.
*FOR TEMPORARY INTERCONNECT AT 22+227 TO DEACTIVATE EXISTING MAINS SOUTH OF 22+227 AND CONTINUE SERVICE NORTH OF 22+227, INSTALL VALVE AND STUB WITH RESTRAINED CAP ON NEW MAIN. INSTALL TEE AND VALVES TO CONNECT EXISTING MAINS TO NEW MAIN AND CUT AND CAP EXISTING WATER MAINS SOUTH OF TEE LOCATIONS.
*CONNECT TO EXISTING MAINS ON PEARL STREET AND VT-73. ABANDON OLD MAINS.
* AFTER SIDE ROAD IS CLOSED DURING NEXT PHASE OF CONSTRUCTION, INSTALL NEW HYDRANT AT 22+228 LT. THIS HYDRANT WILL BE USED DURING CONSTRUCTION OF SEGMENT F TO PROVIDE TEMPORARY WATER SERVICE DURING INSTALLATION OF NEW MAIN. OTHER HYDRANTS CANNOT BE INSTALLED UNTIL ROADWAY RECONSTRUCTION COMPLETE.

3. DRAINAGE
INSTALL OUTFALL AND SAND FILTER AT 22+085 LT AND INSTALL DRAINAGE AND UNDERDRAIN STUBS TO 22+180 INCLUDING PEARL STREET DRAINAGE.

NOTE:
THESE PLANS DEPICT, FOR EACH SEGMENT, A POSSIBLE SEQUENCING FOR INSTALLATION OF UNDERGROUND UTILITIES, INCLUDING SEWER, WATER, DRAINAGE, AND UNDERGROUND ELECTRIC AND COMMUNICATIONS (WHERE APPLICABLE) IN ADVANCE OF THE ROADWAY RECONSTRUCTION WORK EFFORT AND INCLUDE SUGGESTED TRAFFIC CONTROL MEASURES DURING INSTALLATION OF UTILITIES. THESE PLANS SHOULD BE CONSIDERED APPROXIMATE WITH RESPECT TO THE DEPICTED LOCATION OF EXISTING UTILITIES AND FINAL LOCATION OF PROPOSED SERVICES TO RESIDENCES. THE ACTUAL SEQUENCE OF CONSTRUCTION, INCLUDING INSTALLATION OF UNDERGROUND UTILITIES AND SERVICES, SHALL BE DETERMINED BY THE CONTRACTOR BASED ON SELECTED METHODS OF CONSTRUCTION AND BASED ON INFORMATION OBTAINED DURING EXPLORATORY EXCAVATIONS AND ACTUAL FIELD CONDITIONS ENCOUNTERED DURING CONSTRUCTION.

-- AVOID/PROTECT EXISTING UNDERGROUND TELEPHONE

0 10 20 30
SCALE IN METERS

SEGMENT E UTILITY PHASE TRAFFIC CONTROL PLAN 12

PROJECT NAME: BRANDON
PROJECT NUMBER: NH 019-3(496)

FILE NAME: zb008s6-tcp.dgn
PROJECT LEADER: C. BEAN
DESIGNED BY: J. FOWLER
PLOT DATE: 2/23/2017
DRAWN BY: J. FOWLER
CHECKED BY: J.FRYER
SHEET 438 OF 601

CLD 02-0448 MODEL: E-0-12

ISSUED FOR CONSTRUCTION

VAOT Metric

SEE PLAN 13A

MATCH LINE 22+120

MATCH LINE 22+235

SEE PLAN 13A

VT STATE PLANE GRID

N

PEARL ST

US 7

VT 73

EXISTING UNDERGROUND TELEPHONE (TYP.)

BYPASS PUMP TO HERE (I.C)

CONSTRUCTION SEQUENCE (CONT.)

- I.A, I.B, I.C. SEWER
- 2. WATER
- 3. DRAINAGE
- AVOID/PROTECT EXISTING UNDERGROUND TELEPHONE

0 10 20 30

SCALE IN METERS

SEGMENT E UTILITY PHASE TRAFFIC CONTROL PLAN 13

PROJECT NAME: BRANDON

PROJECT NUMBER: NH 019-3(496)

FILE NAME: zb008s6-tcp.dgn
PROJECT LEADER: C. BEAN
DESIGNED BY: J. FOWLER

PLOT DATE: 2/23/2017
DRAWN BY: J. FOWLER
CHECKED BY: J.FRYER
SHEET 439 OF 601

CLD 02-0448 MODEL: E-0-13

ISSUED FOR CONSTRUCTION

VAOT Metric

CONSTRUCTION SEQUENCE (CONT.)

- 1. B. SEWER
- 2. WATER
- AVOID/PROTECT EXISTING UNDERGROUND TELEPHONE

VT STATE PLANE GRID

N

PEARL ST TH-4

19+100

19 + 105.000
LIMIT OF WORK

SEE PLAN 13

18 + 103.000
LIMIT OF WORK

VT 73 TH-3

18+120

18+100

18+080

FORCE MAIN

HYD

SEE PLAN 13

EXISTING UNDERGROUND TELEPHONE (TYP.)

0 10 20 30
SCALE IN METERS

SEGMENT E UTILITY PHASE
TRAFFIC CONTROL PLAN 13A

PROJECT NAME: BRANDON
PROJECT NUMBER: NH 019-3(496)

FILE NAME: zb008s6-tcp.dgn
PROJECT LEADER: C. BEAN
DESIGNED BY: J. FOWLER

PLOT DATE: 2/23/2017
DRAWN BY: J. FOWLER
CHECKED BY: J.FRYER
SHEET 440 OF 601

CLD 02-0448 MODEL: E-0-13A

ISSUED FOR CONSTRUCTION

VAOT Metric

VT STATE PLANE GRID

N

CONSTRUCTION SEQUENCE (CONT.)

I.C. SEWER

AVOID/PROTECT EXISTING UNDERGROUND TELEPHONE

EXISTING UNDERGROUND TELEPHONE (TYP.)

SEE SEGMENT F UTILITY PHASE

MATCH LINE 22+235

MATCH LINE 22+365

US 7

22+240 22+260 22+280 22+300 22+320 22+340 22+360

I.C

I.C

BYPASS PUMP FROM HERE (I.C)

TEMPORARY SEWER PIPE INTO NEW SMH OR TEMPORARY WYE

0 10 20 30

SCALE IN METERS

SEGMENT E UTILITY PHASE TRAFFIC CONTROL PLAN 14

PROJECT NAME: BRANDON

PROJECT NUMBER: NH 019-3(496)

FILE NAME: zb008s6-tcp.dgn

PROJECT LEADER: C. BEAN

DESIGNED BY: J. FOWLER

PLOT DATE: 2/23/2017

DRAWN BY: J. FOWLER

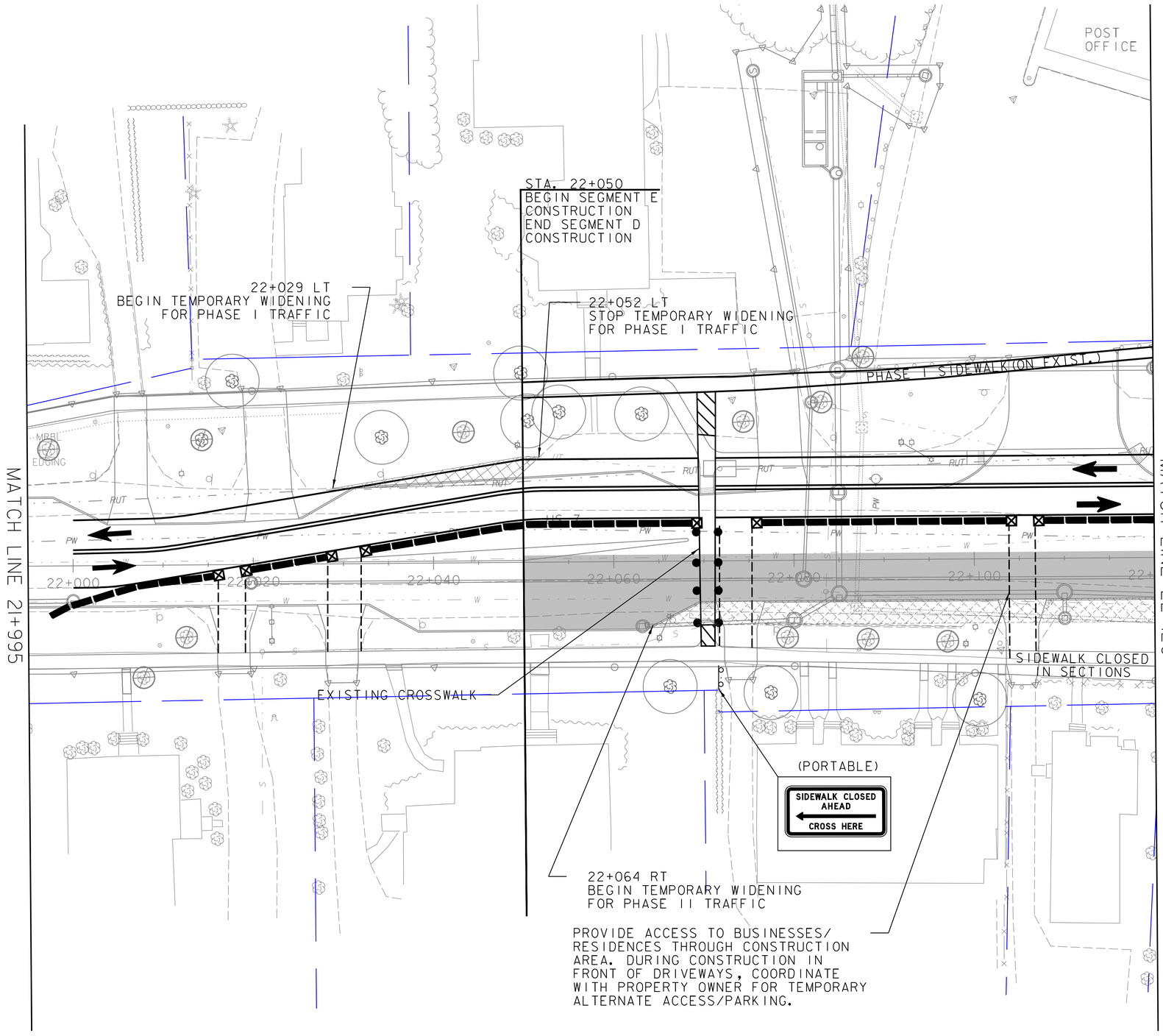
CHECKED BY: J.FRYER

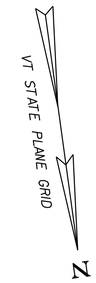
SHEET 441 OF 601

CLD 02-0448 MODEL: E-0-14

ISSUED FOR CONSTRUCTION

VAOT Metric





SEGMENT E TRAFFIC CONTROL:
SEE TWO-WAY TRAFFIC DETAILS ON TRAFFIC CONTROL DETAILS SHEETS

LEGEND

- PHASE I CONSTRUCTION
- TEMPORARY WIDENING FOR PHASE I TRAFFIC
- TEMPORARY WIDENING FOR PHASE II TRAFFIC
- PHASE I TPAR
- PHASE I TRAFFIC
- CHANNELIZING DEVICES
- TPAR BARRIER WITH TL-2 END TREATMENT
- TEMPORARY CONCRETE BARRIER WITH ATTENTUATOR
- TEMPORARY CENTERLINE
- TEMPORARY EDGE LINE
- LIMIT OF SHIFTED TRAFFIC AREA (INCL. BARRELS/BARRIER)
- FLAGGER STATION (MOVES DAILY AS CONSTRUCTION PROGRESSES)
- TEMPORARY CONSTRUCTION LIMITS

0 10 20 30
SCALE IN METERS

SEGMENT E PHASE I TRAFFIC CONTROL PLAN 12

PROJECT NAME: BRANDON
PROJECT NUMBER: NH 019-3(496)

FILE NAME: zb008s6-tcp.dgn
PROJECT LEADER: C. BEAN
DESIGNED BY: J. FOWLER
PLOT DATE: 2/23/2017
DRAWN BY: J. FOWLER
CHECKED BY: J.FRYER
SHEET 442 OF 601

CLD 02-0448 MODEL: E-1-12

ISSUED FOR CONSTRUCTION

VAOT Metric

VT STATE PLANE GRID
N

POST OFFICE

22+170 LT
STOP TEMPORARY WIDENING
FOR PHASE I TRAFFIC

22+141 LT
RESUME TEMPORARY
WIDENING FOR
PHASE I TRAFFIC

PROTECT
UTILITY
POLE

PHASE I SIDEWALK (ON EXIST.)

SEE
NOTE
2

PEARL ST

19+080
19+060
19+040
19+020

22+189 LT
RESUME TEMPORARY WIDENING
FOR PHASE I TRAFFIC

ROAD
CLOSED

VT 73

18+060
18+040

PHASE II SIDEWALK (ON EXIST.)

SEE NOTE 1

STA. 22+220
END SEGMENT E
CONSTRUCTION
BEGIN SEGMENT F
CONSTRUCTION

MATCH LINE 22+120

22+120
22+140
22+160
22+180
22+200
22+220

SIDEWALK CLOSED
IN SECTIONS

SIDEWALK CLOSED
IN SECTIONS

22+232
END TEMPORARY WIDENING
FOR PHASE I TRAFFIC

22+234 RT
END TEMPORARY WIDENING
FOR PHASE II TRAFFIC

MATCH LINE 22+235

0 10 20 30
SCALE IN METERS

SEGMENT E TRAFFIC CONTROL:
SEE TWO-WAY TRAFFIC DETAILS ON
TRAFFIC CONTROL DETAILS SHEETS

NOTES:
1. CONSTRUCT FINAL SIDEWALK TO BE USED FOR PEDESTRIAN ACCESS DURING PHASE II CONSTRUCTION AND FOR SEGMENT F PEDESTRIAN ACCESS.
2. TRANSIT BUS STOP LOCATED IN POST OFFICE PARKING LOT. MAINTAIN ACCESS AND STOP LOCATION.

LEGEND

- PHASE I CONSTRUCTION
- TEMPORARY WIDENING FOR PHASE I TRAFFIC
- TEMPORARY WIDENING FOR PHASE II TRAFFIC
- PHASE I TPAR
- PHASE I TRAFFIC
- CHANNELIZING DEVICES
- TPAR BARRIER WITH TL-2 END TREATMENT
- TEMPORARY CONCRETE BARRIER WITH ATTENTUATOR
- TEMPORARY CENTERLINE
- TEMPORARY EDGE LINE
- LIMIT OF SHIFTED TRAFFIC AREA (INCL. BARRELS/BARRIER)
- FLAGGER STATION (MOVES DAILY AS CONSTRUCTION PROGRESSES)
- TEMPORARY CONSTRUCTION LIMITS

SEGMENT E PHASE I TRAFFIC CONTROL PLAN 13

PROJECT NAME: BRANDON
PROJECT NUMBER: NH 019-3(496)

FILE NAME: zb008s6-tcp.dgn
PROJECT LEADER: C. BEAN
DESIGNED BY: J. FOWLER
PLOT DATE: 2/23/2017
DRAWN BY: J. FOWLER
CHECKED BY: J.FRYER
SHEET 443 OF 601

CLD 02-0448 MODEL: E-I-13

ISSUED FOR CONSTRUCTION

VAOT Metric

VT STATE PLANE GRID

N

SEGMENT E TRAFFIC CONTROL:
SEE TWO-WAY TRAFFIC DETAILS ON
TRAFFIC CONTROL DETAILS SHEETS

MATCH LINE 22+235

MATCH LINE 22+365

US 7

22+240 22+280 22+300 22+320 22+340 22+360

TEMPORARY CROSSWALK
(SEE DETAIL ON TRAFFIC
CONTROL DETAILS SHEETS)

(PORTABLE)

SIDEWALK CLOSED AHEAD
CROSS HERE

LEGEND

- PHASE I CONSTRUCTION
- TEMPORARY WIDENING FOR PHASE I TRAFFIC
- TEMPORARY WIDENING FOR PHASE II TRAFFIC
- PHASE I TPAR
- PHASE I TRAFFIC
- CHANNELIZING DEVICES
- TPAR BARRIER WITH TL-2 END TREATMENT
- TEMPORARY CONCRETE BARRIER WITH ATTENTUATOR
- TEMPORARY CENTERLINE
- TEMPORARY EDGE LINE
- LIMIT OF SHIFTED TRAFFIC AREA (INCL. BARRELS/BARRIER)
- FLAGGER STATION (MOVES DAILY AS CONSTRUCTION PROGRESSES)
- TEMPORARY CONSTRUCTION LIMITS

0 10 20 30
SCALE IN METERS

SEGMENT E PHASE I TRAFFIC CONTROL PLAN 14

PROJECT NAME: BRANDON
PROJECT NUMBER: NH 019-3(496)

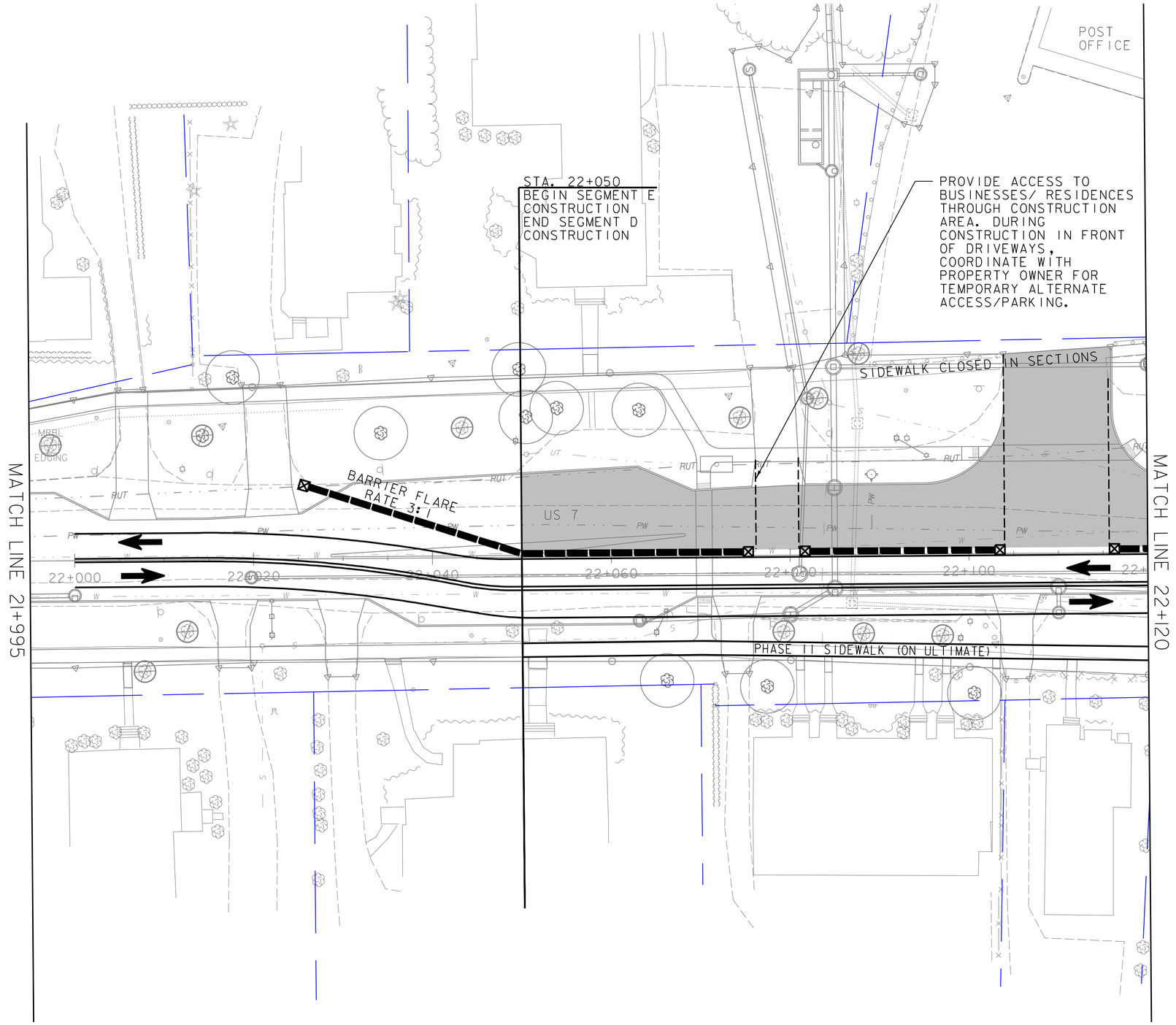
FILE NAME: zb008s6-tcp.dgn
PROJECT LEADER: C. BEAN
DESIGNED BY: J. FOWLER

PLOT DATE: 2/23/2017
DRAWN BY: J. FOWLER
CHECKED BY: J.FRYER
SHEET 444 OF 601

CLD 02-0448 MODEL: E-I-14

ISSUED FOR CONSTRUCTION

VAOT Metric



VT STATE PLANE GRID

N

SEGMENT E TRAFFIC CONTROL:
SEE TWO-WAY TRAFFIC DETAILS ON TRAFFIC CONTROL DETAILS SHEETS

LEGEND

- PHASE II CONSTRUCTION
- PHASE 2 TPAR
- PHASE II TRAFFIC
- CHANNELIZING DEVICES
- TPAR BARRIER WITH TL-2 END TREATMENT
- TEMPORARY CONCRETE BARRIER WITH ATTENUATOR
- TEMPORARY CENTERLINE
- TEMPORARY EDGELINE
- LIMIT OF SHIFTED TRAFFIC AREA (INCL. BARRELS/BARRIER)
- FLAGGER STATION (MOVES DAILY AS CONSTRUCTION PROGRESSES)
- TEMPORARY CONSTRUCTION LIMITS

0 10 20 30

SCALE IN METERS

SEGMENT E PHASE II TRAFFIC CONTROL PLAN 12

PROJECT NAME: BRANDON
PROJECT NUMBER: NH 019-3(496)

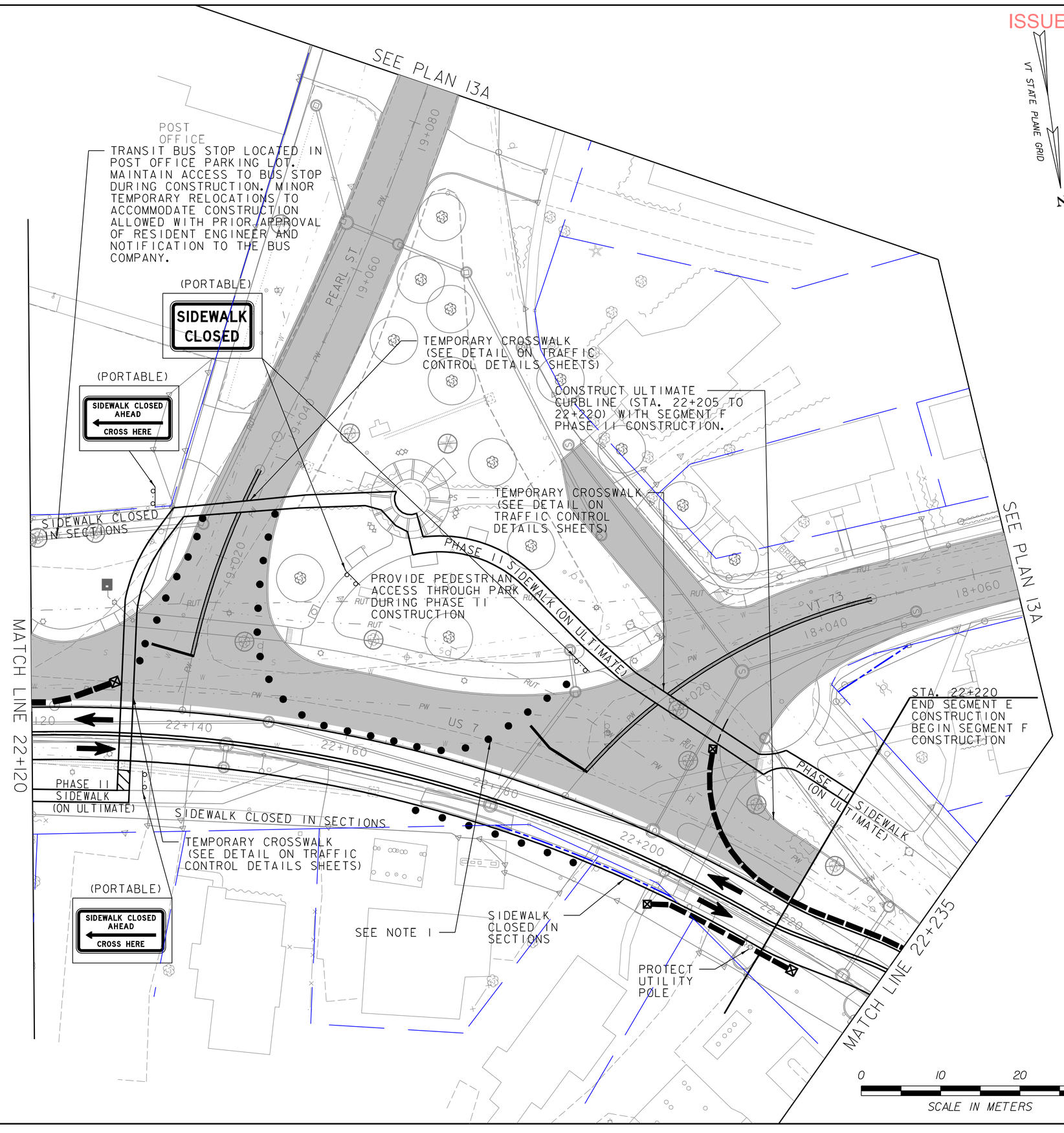
FILE NAME: zb008s6-tcp.dgn
PROJECT LEADER: C. BEAN
DESIGNED BY: J. FOWLER

PLOT DATE: 2/23/2017
DRAWN BY: J. FOWLER
CHECKED BY: J.FRYER
SHEET 445 OF 601

CLD 02-0448 MODEL: E-II-12

ISSUED FOR CONSTRUCTION

VAOT Metric



SEGMENT E TRAFFIC CONTROL:
SEE TWO-WAY TRAFFIC DETAILS ON TRAFFIC CONTROL DETAILS SHEETS

PEARL STREET:
CONTRACTOR MAY ELECT TO UTILIZE TEMPORARY CLOSURE DURING CONSTRUCTION OF US 7 WITHIN INTERSECTION AND DURING CONSTRUCTION OF PEARL STREET. ACCESS TO PEARL STREET VIA DETOUR AROUND BACK OF PARK (VIA VT 73). AT LEAST ONE SIDEWALK SHALL REMAIN OPEN AT ALL TIMES WHILE OTHER SIDEWALK IS UNDER CONSTRUCTION. PEARL STREET AND VT 73 SHALL NOT BE UNDER CONSTRUCTION AT SAME TIME. AT LEAST ONE DRIVEWAY TO POST OFFICE SHALL REMAIN OPEN AT ALL TIMES. CONTRACTOR SHALL PROVIDE SPECIFIC TRAFFIC AND PEDESTRIAN DETOUR PLANS FOR UPDATED TRAFFIC MANAGEMENT STRATEGIES. SEE CONSTRUCTION APPROACH SIGNING FOR ADDITIONAL APPROACH SIGN REQUIREMENTS.

VT 73 WEST:
CONSTRUCT VT 73 WEST USING DAYTIME ONE-WAY ALTERNATING TRAFFIC WITH FLAGGERS. VT 73 MUST BE OPENED TO TWO LANES AT END OF EACH DAY. AT LEAST ONE SIDEWALK SHALL REMAIN OPEN AT ALL TIMES WHILE OTHER SIDEWALK IS UNDER CONSTRUCTION. VT 73 AND PEARL STREET SHALL NOT BE UNDER CONSTRUCTION AT SAME TIME. SEE CONSTRUCTION APPROACH SIGNING FOR ADDITIONAL APPROACH SIGN REQUIREMENTS.

NOTES:
1. CONTRACTOR SHALL ACCOMMODATE TRACKING FOR LARGER TRUCKS THROUGH CONSTRUCTION ZONE.

LEGEND

- PHASE II CONSTRUCTION
- PHASE 2 TPAR
- PHASE II TRAFFIC
- CHANNELIZING DEVICES
- TPAR BARRIER WITH TL-2 END TREATMENT
- TEMPORARY CONCRETE BARRIER WITH ATTENUATOR
- TEMPORARY CENTERLINE
- TEMPORARY EDGELINE
- LIMIT OF SHIFTED TRAFFIC AREA (INCL. BARRELS/BARRIER)
- FLAGGER STATION (MOVES DAILY AS CONSTRUCTION PROGRESSES)
- TEMPORARY CONSTRUCTION LIMITS

SEGMENT E PHASE II TRAFFIC CONTROL PLAN 13

PROJECT NAME: BRANDON
PROJECT NUMBER: NH 019-3(496)

FILE NAME: zb008s6-tcp.dgn
PROJECT LEADER: C. BEAN
DESIGNED BY: J. FOWLER
PLOT DATE: 2/23/2017
DRAWN BY: J. FOWLER
CHECKED BY: J.FRYER
SHEET 446 OF 601

CLD 02-0448 MODEL: E-II-13

ISSUED FOR CONSTRUCTION

VAOT Metric

PEARL STREET:
SEE REMARKS ON PREVIOUS SHEET

VT STATE PLANE GRID
N

19 + 105.000
LIMIT OF WORK

PEARL ST TH-4

19+100

SEE PLAN 13

18 + 103.000
LIMIT OF WORK

VT 73 WEST:
SEE REMARKS ON PREVIOUS SHEET

(PORTABLE)
SIDEWALK CLOSED AHEAD
CROSS HERE

TEMPORARY CROSSWALK (SEE DETAIL ON TRAFFIC CONTROL DETAILS SHEETS)

VT 73
TH-3

18+120

18+106

18+080

HYD

(PORTABLE)
SIDEWALK CLOSED AHEAD
CROSS HERE

SEE PLAN 13

LEGEND

- PHASE II CONSTRUCTION
- PHASE 2 TPAR
- PHASE II TRAFFIC
- CHANNELIZING DEVICES
- TPAR BARRIER WITH TL-2 END TREATMENT
- TEMPORARY CONCRETE BARRIER WITH ATTENUATOR
- TEMPORARY CENTERLINE
- TEMPORARY EDGELINE
- LIMIT OF SHIFTED TRAFFIC AREA (INCL. BARRELS/BARRIER)
- FLAGGER STATION (MOVES DAILY AS CONSTRUCTION PROGRESSES)
- TEMPORARY CONSTRUCTION LIMITS

0 10 20 30
SCALE IN METERS

SEGMENT E PHASE II
TRAFFIC CONTROL PLAN 13A

PROJECT NAME: BRANDON
PROJECT NUMBER: NH 019-3(496)

FILE NAME: zb008s6-tcp.dgn
PROJECT LEADER: C. BEAN
DESIGNED BY: J. FOWLER
PLOT DATE: 2/23/2017
DRAWN BY: J. FOWLER
CHECKED BY: J.FRYER
SHEET 447 OF 601

CLD 02-0448 MODEL: E-II-13A

ISSUED FOR CONSTRUCTION

VAOT Metric

VT STATE PLANE GRID

N

SEGMENT E TRAFFIC CONTROL:
SEE TWO-WAY TRAFFIC DETAILS ON
TRAFFIC CONTROL DETAILS SHEETS

MATCH LINE 22+235

MATCH LINE 22+365

US 7

22+240 22+260 22+280 22+300 22+320 22+340 22+360

(PORTABLE)

SIDEWALK CLOSED AHEAD
CROSS HERE

TEMPORARY CROSSWALK
(SEE DETAIL ON TRAFFIC
CONTROL DETAILS SHEETS)

LEGEND

- PHASE II CONSTRUCTION
- PHASE 2 TPAR
- PHASE II TRAFFIC
- CHANNELIZING DEVICES
- TPAR BARRIER WITH TL-2 END TREATMENT
- TEMPORARY CONCRETE BARRIER WITH ATTENUATOR
- TEMPORARY CENTERLINE
- TEMPORARY EDGELINE
- LIMIT OF SHIFTED TRAFFIC AREA (INCL. BARRELS/BARRIER)
- FLAGGER STATION (MOVES DAILY AS CONSTRUCTION PROGRESSES)
- TEMPORARY CONSTRUCTION LIMITS

0 10 20 30

SCALE IN METERS

SEGMENT E PHASE II
TRAFFIC CONTROL PLAN 14

PROJECT NAME: BRANDON
PROJECT NUMBER: NH 019-3(496)

FILE NAME: zb008s6-tcp.dgn
PROJECT LEADER: C. BEAN
DESIGNED BY: J. FOWLER

PLOT DATE: 2/23/2017
DRAWN BY: J. FOWLER
CHECKED BY: J.FRYER
SHEET 448 OF 601

CLD 02-0448 MODEL: E-II-14

ISSUED FOR CONSTRUCTION

VAOT Metric

SEE PLAN 13A

VT STATE PLANE GRID

N

PEARL ST

19+080

19+060

19+040

19+020

EXISTING UNDERGROUND TELEPHONE (TYP.)

SEE PLAN 13A

VT 73

18+060

18+040

US 7

22+140

22+160

22+180

22+200

22+220

MATCH LINE 22+120

MATCH LINE 22+235

PROVIDE TEMPORARY WATER FROM HYDRANT INSTALLED UNDER SEGMENT E.

SEE SEGMENT E UTILITY PHASE

0 10 20 30

SCALE IN METERS

CONSTRUCTION SEQUENCE

SEE NEXT SHEET

3. WATER

4. DRAINAGE

AVOID/PROTECT EXISTING UNDERGROUND TELEPHONE

GENERAL

1. INSTALLATION OF UTILITIES WILL REQUIRE DAYTIME ONE-LANE ALTERNATING TRAFFIC CONTROL WITH FLAGGERS IN PLACE. OPEN TRENCHES ARE TO BE BACKFILLED OR PLATED AT THE END OF EACH DAY AND TWO-LANE TRAFFIC RESTORED OVERNIGHT.

2. ONE-LANE ALTERNATING TRAFFIC LAYOUTS AND TPAR'S SHALL CONFORM TO THE PHASE I OR PHASE II TCP LAYOUTS, AS APPROPRIATE. SEE ALSO TYPICAL WORK ZONE LAYOUTS AND TYPICAL SECTIONS FOR ONE-WAY ALTERNATING TRAFFIC ON TRAFFIC CONTROL DETAILS SHEETS.

3. AVOID AND PROTECT EXISTING UNDERGROUND TELEPHONE LINES (SHOWN DASHED)

4. LOCATION OF PROPOSED SEWER AND WATER SERVICES ARE APPROXIMATE ONLY.

5. NOTE THAT EXCAVATION FOR UTILITY INSTALLATION MAY INCLUDE SAWCUT AND REMOVAL OF EXISTING PORTLAND CEMENT CONCRETE ROADBED DEPENDING ON CONTRACTOR'S CHOICE TO REMOVE SLABS BEFORE UTILITY WORK OR DURING ROADWAY RECONSTRUCTION AFTER UTILITY WORK.

NOTE:
THESE PLANS DEPICT, FOR EACH SEGMENT, A POSSIBLE SEQUENCING FOR INSTALLATION OF UNDERGROUND UTILITIES, INCLUDING SEWER, WATER, DRAINAGE, AND UNDERGROUND ELECTRIC AND COMMUNICATIONS (WHERE APPLICABLE) IN ADVANCE OF THE ROADWAY RECONSTRUCTION WORK EFFORT AND INCLUDE SUGGESTED TRAFFIC CONTROL MEASURES DURING INSTALLATION OF UTILITIES. THESE PLANS SHOULD BE CONSIDERED APPROXIMATE WITH RESPECT TO THE DEPICTED LOCATION OF EXISTING UTILITIES AND FINAL LOCATION OF PROPOSED SERVICES TO RESIDENCES. THE ACTUAL SEQUENCE OF CONSTRUCTION, INCLUDING INSTALLATION OF UNDERGROUND UTILITIES AND SERVICES, SHALL BE DETERMINED BY THE CONTRACTOR BASED ON SELECTED METHODS OF CONSTRUCTION AND BASED ON INFORMATION OBTAINED DURING EXPLORATORY EXCAVATIONS AND ACTUAL FIELD CONDITIONS ENCOUNTERED DURING CONSTRUCTION.

SEGMENT F UTILITY PHASE TRAFFIC CONTROL PLAN 13

PROJECT NAME: BRANDON
PROJECT NUMBER: NH 019-3(496)

FILE NAME: zb008s6-tcp.dgn
PROJECT LEADER: C. BEAN
DESIGNED BY: J. FOWLER
PLOT DATE: 2/23/2017
DRAWN BY: J. FOWLER
CHECKED BY: J.FRYER
SHEET 449 OF 601

CLD 02-0448 MODEL: F-0-13

ISSUED FOR CONSTRUCTION

VAOT Metric

VT STATE PLANE GRID

N

MATCH LINE 22+235

MATCH LINE 22+365

EXISTING UNDERGROUND TELEPHONE (TYP.)

US 7

22+240 22+260 22+280 22+300 22+320 22+340 22+360

CONSTRUCTION SEQUENCE

1. FAIRPOINT DUCTBANK (PLAN 16)
COORDINATE WITH FAIRPOINT AND INSTALL NEW CONDUIT FOR RELOCATION OF UNDERGROUND TELEPHONE TO NEW RISER POLE AT 22+550 LT. FAIRPOINT TO MAKE RELOCATION AND ABANDON EXISTING UNDERGROUND TELEPHONE FROM 22+550 TO END OF PROJECT PRIOR TO NO. 4 BELOW (DRAINAGE).

2. SEWER
EXISTING MAIN CAN REMAIN ACTIVE DURING INSTALLATION OF NEW MAIN. INSTALL SEWER FROM CAPPED END FROM SEGMENT E AT 22+256 TO 22+441. CONSIDER OVER BLASTING FOR FUTURE DRAINAGE WHEN BLASTING LEDGE FOR SEWER 22+360 TO 22+441. CONNECT LATERALS. REMOVE TEMPORARY CONNECTION PIPE INSTALLED UNDER SEGMENT E AT 22+256. FLOW FILL OLD MAIN.

3. WATER
* EXISTING 100 AND 150 MAINS WILL BE IMPACTED DURING INSTALLATION OF NEW MAIN FROM 22+184 TO 22+480 +/-. INSTALL TAPPING SLEEVE AND INSERTION VALVE ON 150 MAIN AT 22+480 +/- TO FEED 150 MAIN NORTH OF 22+480 FROM ABOVE GROUND WATER SUPPLY. ABOVE-GROUND WATER SUPPLIED FROM NEW HYDRANT AT 22+229 LT. ALSO PROVIDE ABOVE-GROUND WATER TO RESIDENCES 22+230 TO 22+480 LT/RT FROM HYDRANT AT 22+229 LT. TURN OFF 100 AND 150 MAINS WITH VALVES AT 22+228 AND 22+480. INSERTION VALVE NOT NEEDED ON 100 MAIN AT 22+480 BECAUSE IT IS INACTIVE NORTH OF THIS LOCATION. (VERIFY WITH BFD)
* INSTALL NEW 300 MAIN FROM PREVIOUS CAPPED END IN SEGMENT E AT 22+227 TO END OF PROJECT AT 22+655. PRESSURE TEST, SHOCK, DE-CHLORINATE,TEST.
* CHARGE BY CONNECTING TO MAIN AT 22+227. TIE IN ALL SERVICES AND CONNECT TO EXISTING MAIN AT NORTH END OF PROJECT. HYDRANT AT 22+327 RT CAN BE INSTALLED. OTHER HYDRANTS CANNOT BE INSTALLED UNTIL ROADWAY CONSTRUCTION IS COMPLETE.
* OLD MAINS WILL BE REMOVED WITH CONSTRUCTION TO 22+470 +/-. ABANDON REMAINING MAINS.

4. DRAINAGE
INSTALL DRAINAGE AND UNDERDRAIN STUBS FROM 22+640 OUTFALL UP TO 22+205.

AVOID/PROTECT EXISTING UNDERGROUND TELEPHONE

0 10 20 30
SCALE IN METERS

SEGMENT F UTILITY PHASE TRAFFIC CONTROL PLAN 14

PROJECT NAME: BRANDON
PROJECT NUMBER: NH 019-3(496)

FILE NAME: zb008s6-tcp.dgn
PROJECT LEADER: C. BEAN
DESIGNED BY: J. FOWLER
PLOT DATE: 2/23/2017
DRAWN BY: J. FOWLER
CHECKED BY: J.FRYER
SHEET 450 OF 601

CLD 02-0448 MODEL: F-0-14

ISSUED FOR CONSTRUCTION

VAOT Metric

VT STATE PLANE GRID

N

MATCH LINE 22+365

MATCH LINE 22+520

EXISTING UNDERGROUND TELEPHONE (TYP.)

TEMPORARY ABOVE GROUND SERVICE TO FEED 150 MAIN

US 7

22+380 22+400 22+420 22+440 22+460 22+480 22+500 22+

CONSTRUCTION SEQUENCE (CONT.)

- 2. SEWER
- 3. WATER
- 4. DRAINAGE
- AVOID/PROTECT EXISTING UNDERGROUND TELEPHONE

0 10 20 30

SCALE IN METERS

SEGMENT F UTILITY PHASE TRAFFIC CONTROL PLAN 15

PROJECT NAME: BRANDON
PROJECT NUMBER: NH 019-3(496)

FILE NAME: zb008s6-tcp.dgn
PROJECT LEADER: C. BEAN
DESIGNED BY: J. FOWLER

PLOT DATE: 2/23/2017
DRAWN BY: J. FOWLER
CHECKED BY: J.FRYER
SHEET 451 OF 601

CLD 02-0448 MODEL: F-0-15

ISSUED FOR CONSTRUCTION

VAOT Metric

VT STATE PLANE GRID

N

EXISTING UNDERGROUND TELEPHONE (TYP.)

FAIRPOINT DUCTBANK

22 + 630.000
END PROJECT
NH 019-3(496)
BEGIN APPROACH

22 + 680.000
END APPROACH

WETLAND #23
CLASS 2
PEMB

US 7

MATCH LINE 22+520

22+520 22+540 22+560 22+580 22+600 22+620 22+640 22+660 22+680 22+700

CONSTRUCTION SEQUENCE (CONT.)

- 1. FAIRPOINT DUCTBANK
- 3. WATER
- 4. DRAINAGE
- AVOID/PROTECT EXISTING UNDERGROUND TELEPHONE

0 10 20 30

SCALE IN METERS

SEGMENT F UTILITY PHASE TRAFFIC CONTROL PLAN 16

PROJECT NAME: BRANDON
PROJECT NUMBER: NH 019-3(496)

FILE NAME: zb008s6-tcp.dgn
PROJECT LEADER: C. BEAN
DESIGNED BY: J. FOWLER

PLOT DATE: 2/23/2017
DRAWN BY: J. FOWLER
CHECKED BY: J.FRYER
SHEET 452 OF 601

CLD 02-0448 MODEL: F-0-16

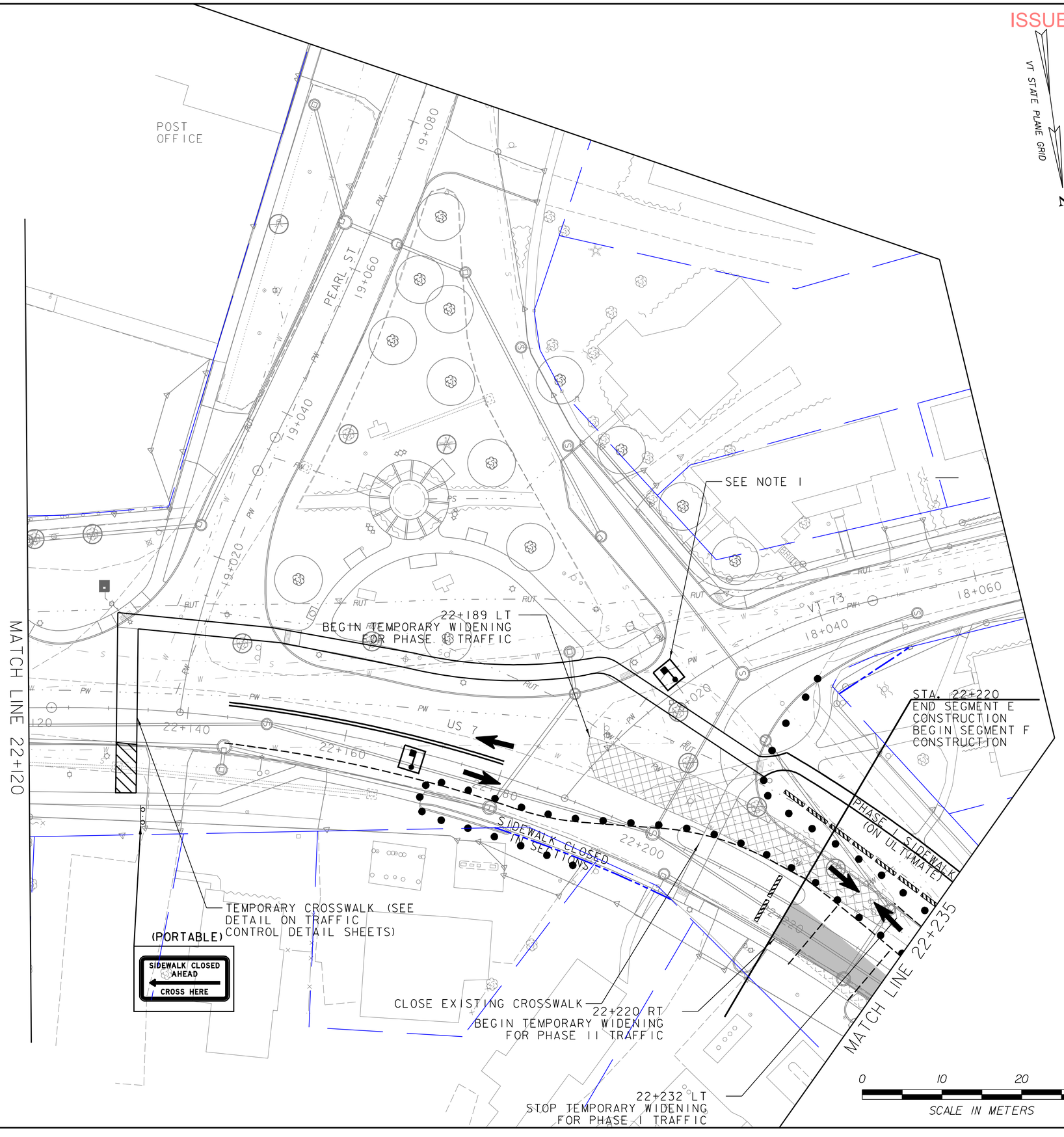
ISSUED FOR CONSTRUCTION

VAOT Metric

VT STATE PLANE GRID
N

SEGMENT F TRAFFIC CONTROL:
SEE ONE-WAY ALTERNATING TRAFFIC DETAILS ON TRAFFIC CONTROL DETAILS SHEETS

NOTES:
1. PROVIDE UTO AT VT 73 WHEN ONE-WAY CONSTRUCTION PROGRESSES TO VICINITY OF INTERSECTION.



LEGEND

- PHASE I CONSTRUCTION
- TEMPORARY WIDENING FOR PHASE I TRAFFIC
- TEMPORARY WIDENING FOR PHASE II TRAFFIC
- PHASE I TPAR
- PHASE I TRAFFIC
- CHANNELIZING DEVICES
- TPAR BARRIER WITH TL-2 END TREATMENT
- TEMPORARY CONCRETE BARRIER WITH ATTENTUATOR
- TEMPORARY CENTERLINE
- TEMPORARY EDGE LINE
- LIMIT OF SHIFTED TRAFFIC AREA (INCL. BARRELS/BARRIER)
- FLAGGER STATION (MOVES DAILY AS CONSTRUCTION PROGRESSES)
- TEMPORARY CONSTRUCTION LIMITS

SEGMENT F PHASE I TRAFFIC CONTROL PLAN 13

PROJECT NAME: BRANDON
PROJECT NUMBER: NH 019-3(496)

FILE NAME: zb008s6-tcp.dgn
PROJECT LEADER: C. BEAN
DESIGNED BY: J. FOWLER
PLOT DATE: 2/23/2017
DRAWN BY: J. FOWLER
CHECKED BY: J.FRYER
SHEET 453 OF 601

CLD 02-0448 MODEL: F-1-13

ISSUED FOR CONSTRUCTION

VAOT Metric

VT STATE PLANE GRID

N

23+001 LT
STOP TEMPORARY WIDENING
FOR PHASE I TRAFFIC

22+286 LT
RESUME TEMPORARY WIDENING
FOR PHASE I TRAFFIC

22+352 LT
RESUME TEMPORARY WIDENING
FOR PHASE I TRAFFIC

ROAD CLOSED

PHASE I SIDEWALK (ON EXIST.)

PHASE I SIDEWALK (ON EXIST.)

MATCH LINE 22+235

MATCH LINE 22+365

22+240 22+260 22+280 22+300 22+320 22+340 22+360

SIDEWALK CLOSED IN SECTIONS

MAINTAIN EXISTING SIDEWALK HERE FOR USE IN PHASE II PEDESTRIAN ROUTE.

PROVIDE ACCESS TO BUSINESSES/ RESIDENCES THROUGH CONSTRUCTION AREA. DURING CONSTRUCTION IN FRONT OF DRIVEWAYS, COORDINATE WITH PROPERTY OWNER FOR TEMPORARY ALTERNATE ACCESS/PARKING.

SEGMENT F TRAFFIC CONTROL:
SEE ONE-WAY ALTERNATING TRAFFIC
DETAILS ON TRAFFIC CONTROL DETAILS SHEETS

LEGEND

- PHASE I CONSTRUCTION
- TEMPORARY WIDENING FOR PHASE I TRAFFIC
- TEMPORARY WIDENING FOR PHASE II TRAFFIC
- PHASE I TPAR
- PHASE I TRAFFIC
- CHANNELIZING DEVICES
- TPAR BARRIER WITH TL-2 END TREATMENT
- TEMPORARY CONCRETE BARRIER WITH ATTENTUATOR
- TEMPORARY CENTERLINE
- TEMPORARY EDGE LINE
- LIMIT OF SHIFTED TRAFFIC AREA (INCL. BARRELS/BARRIER)
- FLAGGER STATION (MOVES DAILY AS CONSTRUCTION PROGRESSES)
- TEMPORARY CONSTRUCTION LIMITS

0 10 20 30
SCALE IN METERS

SEGMENT F PHASE I TRAFFIC CONTROL PLAN 14

PROJECT NAME: BRANDON
PROJECT NUMBER: NH 019-3(496)

FILE NAME: zb008s6-tcp.dgn
PROJECT LEADER: C. BEAN
DESIGNED BY: J. FOWLER
PLOT DATE: 2/23/2017
DRAWN BY: J. FOWLER
CHECKED BY: J.FRYER
SHEET 454 OF 601

CLD 02-0448 MODEL: F-I-14

ISSUED FOR CONSTRUCTION

Metric

VT STATE PLANE GRID

N

22+475 LT
END TEMPORARY WIDENING
FOR PHASE I TRAFFIC

MATCH LINE 22+365

PHASE I SIDEWALK (ON EXIST.)

PHASE I SIDEWALK (ON EXIST.)

22+380 22+400 22+420 22+440 22+460 22+480 22+500 22+

MATCH LINE 22+520

SIDEWALK CLOSED IN SECTIONS

SIDEWALK CLOSED IN SECTIONS

22+450 RT
END TEMPORARY WIDENING
FOR PHASE II TRAFFIC

SEGMENT F TRAFFIC CONTROL:
SEE ONE-WAY ALTERNATING TRAFFIC
DETAILS ON TRAFFIC CONTROL
DETAILS SHEETS

LEGEND

- PHASE I CONSTRUCTION
- TEMPORARY WIDENING FOR PHASE I TRAFFIC
- TEMPORARY WIDENING FOR PHASE II TRAFFIC
- PHASE I TPAR
- PHASE I TRAFFIC
- CHANNELIZING DEVICES
- TPAR BARRIER WITH TL-2 END TREATMENT
- TEMPORARY CONCRETE BARRIER WITH ATTENTUATOR
- TEMPORARY CENTERLINE
- TEMPORARY EDGE LINE
- LIMIT OF SHIFTED TRAFFIC AREA (INCL. BARRELS/BARRIER)
- FLAGGER STATION (MOVES DAILY AS CONSTRUCTION PROGRESSES)
- TEMPORARY CONSTRUCTION LIMITS

0 10 20 30

SCALE IN METERS

SEGMENT F PHASE I TRAFFIC CONTROL PLAN 15

PROJECT NAME: BRANDON
PROJECT NUMBER: NH 019-3(496)

FILE NAME: zb008s6-tcp.dgn
PROJECT LEADER: C. BEAN
DESIGNED BY: J. FOWLER

PLOT DATE: 2/23/2017
DRAWN BY: J. FOWLER
CHECKED BY: J.FRYER
SHEET 455 OF 601

CLD 02-0448 MODEL: F-I-15

ISSUED FOR CONSTRUCTION

VAOT Metric

LEGEND

- PHASE I CONSTRUCTION
- TEMPORARY WIDENING FOR PHASE I TRAFFIC
- TEMPORARY WIDENING FOR PHASE II TRAFFIC
- PHASE I TPAR
- PHASE I TRAFFIC
- CHANNELIZING DEVICES
- TPAR BARRIER WITH TL-2 END TREATMENT
- TEMPORARY CONCRETE BARRIER WITH ATTENTUATOR
- TEMPORARY CENTERLINE
- TEMPORARY EDGE LINE
- LIMIT OF SHIFTED TRAFFIC AREA (INCL. BARRELS/BARRIER)
- FLAGGER STATION (MOVES DAILY AS CONSTRUCTION PROGRESSES)
- TEMPORARY CONSTRUCTION LIMITS

VT STATE PLANE GRID N

MATCH LINE 22+520

PHASE I SIDEWALK

PHASE I SIDEWALK

22+630.000
END PROJECT
NH 019-3(496)
BEGIN APPROACH

STA. 22+656
END SEGMENT F
CONSTRUCTION

TEMPORARY CROSSWALK
(SEE DETAIL ON TRAFFIC CONTROL DETAILS SHEETS)

22+680.000
END APPROACH

WETLAND #23
CLASS 2
PEMB

22+520 22+540 22+560 22+580 22+600 22+620 22+640 22+660 22+680 22+700

US 7

SIDEWALK CLOSED IN SECTIONS

SIDEWALK CLOSED IN SECTIONS

TYPE III BARRICADE (PORTABLE)

SIDEWALK CLOSED AHEAD
CROSS HERE

SEGMENT F TRAFFIC CONTROL:
SEE ONE-WAY ALTERNATING TRAFFIC DETAILS ON TRAFFIC CONTROL DETAILS SHEETS

0 10 20 30
SCALE IN METERS

SEGMENT F PHASE I
TRAFFIC CONTROL PLAN 16

PROJECT NAME: BRANDON
PROJECT NUMBER: NH 019-3(496)

FILE NAME: zb008s6-tcp.dgn
PROJECT LEADER: C. BEAN
DESIGNED BY: J. FOWLER

PLOT DATE: 2/23/2017
DRAWN BY: J. FOWLER
CHECKED BY: J.FRYER
SHEET 456 OF 601

CLD 02-0448 MODEL: F-I-16

ISSUED FOR CONSTRUCTION

VAOT Metric

VT STATE PLANE GRID

N

SEGMENT F TRAFFIC CONTROL:
SEE ONE-WAY ALTERNATING TRAFFIC DETAILS ON TRAFFIC CONTROL DETAILS SHEETS

NOTES:
1. PROVIDE UTO AT VT 73 WHEN ONE-WAY CONSTRUCTION PROGRESSES TO VICINITY OF INTERSECTION.

POST OFFICE

PEARL ST

19+080

19+060

19+040

19+020

SEE NOTE 1

VT 73

18+060

18+040

18+020

RUT

PW

US 7

22+140

22+160

22+180

22+200

22+220

SIDEWALK CLOSED IN SECTIONS

PHASE 1 SIDEWALK (ON ULTIMATE)

STA. 22+220
BEGIN SEGMENT F CONSTRUCTION
END SEGMENT E CONSTRUCTION

MATCH LINE 22+120

MATCH LINE 22+235

(PORTABLE)

SIDEWALK CLOSED AHEAD
CROSS HERE

TEMPORARY CROSSWALK (SEE DETAIL ON TRAFFIC DETAILS SHEETS)

CLOSE EXISTING CROSSWALK

TYPE III BARRICADE

LEGEND

- PHASE II CONSTRUCTION
- PHASE 2 TPAR
- PHASE II TRAFFIC
- CHANNELIZING DEVICES
- TPAR BARRIER WITH TL-2 END TREATMENT
- TEMPORARY CONCRETE BARRIER WITH ATTENUATOR
- TEMPORARY CENTERLINE
- TEMPORARY EDGELINE
- LIMIT OF SHIFTED TRAFFIC AREA (INCL. BARRELS/BARRIER)
- FLAGGER STATION (MOVES DAILY AS CONSTRUCTION PROGRESSES)
- TEMPORARY CONSTRUCTION LIMITS

0 10 20 30
SCALE IN METERS

SEGMENT F PHASE II TRAFFIC CONTROL PLAN 13

PROJECT NAME: BRANDON
PROJECT NUMBER: NH 019-3(496)

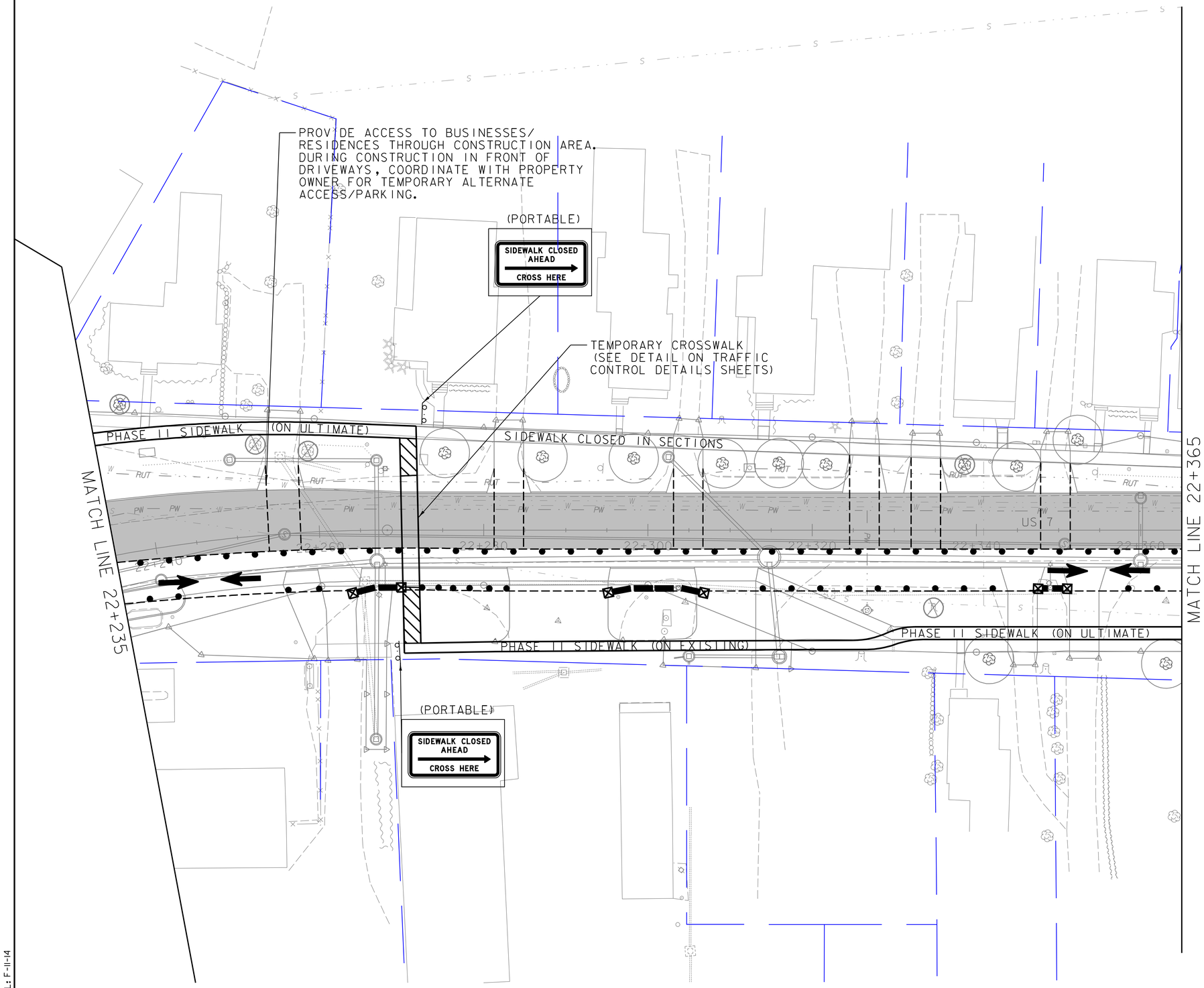
FILE NAME: zb008s6-tcp.dgn
PROJECT LEADER: C. BEAN
DESIGNED BY: J. FOWLER

PLOT DATE: 2/23/2017
DRAWN BY: J. FOWLER
CHECKED BY: J.FRYER
SHEET 457 OF 601

CLD 02-0448 MODEL: F-11-13

ISSUED FOR CONSTRUCTION

VAOT Metric



VT STATE PLANE GRID

N

SEGMENT F TRAFFIC CONTROL:
SEE ONE-WAY ALTERNATING TRAFFIC DETAILS ON TRAFFIC CONTROL DETAILS SHEETS

LEGEND

- PHASE II CONSTRUCTION
- PHASE 2 TPAR
- PHASE II TRAFFIC
- CHANNELIZING DEVICES
- TPAR BARRIER WITH TL-2 END TREATMENT
- TEMPORARY CONCRETE BARRIER WITH ATTENUATOR
- TEMPORARY CENTERLINE
- TEMPORARY EDGELINE
- LIMIT OF SHIFTED TRAFFIC AREA (INCL. BARRELS/BARRIER)
- FLAGGER STATION (MOVES DAILY AS CONSTRUCTION PROGRESSES)
- TEMPORARY CONSTRUCTION LIMITS

0 10 20 30

SCALE IN METERS

SEGMENT F PHASE II TRAFFIC CONTROL PLAN 14

PROJECT NAME: BRANDON
PROJECT NUMBER: NH 019-3(496)

FILE NAME: zb008s6-tcp.dgn
PROJECT LEADER: C. BEAN
DESIGNED BY: J. FOWLER

PLOT DATE: 2/23/2017
DRAWN BY: J. FOWLER
CHECKED BY: J.FRYER
SHEET 458 OF 601

CLD 02-0448 MODEL: F-II-14

ISSUED FOR CONSTRUCTION

VAOT Metric

VT STATE PLANE GRID

N

MATCH LINE 22+365

SIDEWALK CLOSED IN SECTIONS

SIDEWALK CLOSED IN SECTIONS

(PORTABLE)

SIDEWALK CLOSED AHEAD

CROSS HERE

TEMPORARY CROSSWALK (SEE DETAIL ON TRAFFIC CONTROL DETAILS SHEETS)

US 7

22+380 22+400 22+420 22+440 22+460 22+480 22+500

MATCH LINE 22+520

PHASE II SIDEWALK (ON ULTIMATE)

PHASE II SIDEWALK (ON ULTIMATE)

SEGMENT F TRAFFIC CONTROL:
SEE ONE-WAY ALTERNATING TRAFFIC DETAILS ON TRAFFIC CONTROL DETAILS SHEETS

LEGEND

- PHASE II CONSTRUCTION
- PHASE 2 TPAR
- PHASE II TRAFFIC
- CHANNELIZING DEVICES
- TPAR BARRIER WITH TL-2 END TREATMENT
- TEMPORARY CONCRETE BARRIER WITH ATTENUATOR
- TEMPORARY CENTERLINE
- TEMPORARY EDGELINE
- LIMIT OF SHIFTED TRAFFIC AREA (INCL. BARRELS/BARRIER)
- FLAGGER STATION (MOVES DAILY AS CONSTRUCTION PROGRESSES)
- TEMPORARY CONSTRUCTION LIMITS

0 10 20 30

SCALE IN METERS

SEGMENT F PHASE II TRAFFIC CONTROL PLAN 15

PROJECT NAME: BRANDON
PROJECT NUMBER: NH 019-3(496)

FILE NAME: zb008s6-tcp.dgn
PROJECT LEADER: C. BEAN
DESIGNED BY: J. FOWLER

PLOT DATE: 2/23/2017
DRAWN BY: J. FOWLER
CHECKED BY: J.FRYER
SHEET 459 OF 601

CLD 02-0448 MODEL: F-II-15

ISSUED FOR CONSTRUCTION

VAOT Metric

VT STATE PLANE GRID N

MATCH LINE 22+520

22 + 630.000
END PROJECT
NH 019-3(496)
BEGIN APPROACH

22 + 680.000
END APPROACH

STA. 22+656
END SEGMENT F
CONSTRUCTION

WETLAND #23
CLASS 2
PEMB

22+520 22+540 22+560 22+580 22+600 22+620 22+640 22+660 22+680 22+700

US 7

PHASE II SIDEWALK (ON ULTIMATE)

TYPE III BARRICADE

SEGMENT F TRAFFIC CONTROL:
SEE ONE-WAY ALTERNATING TRAFFIC DETAILS
ON TRAFFIC CONTROL DETAILS SHEETS

LEGEND

- PHASE II CONSTRUCTION
- PHASE 2 TPAR
- PHASE II TRAFFIC
- CHANNELIZING DEVICES
- TPAR BARRIER WITH TL-2 END TREATMENT
- TEMPORARY CONCRETE BARRIER WITH ATTENUATOR
- TEMPORARY CENTERLINE
- TEMPORARY EDGELINE
- LIMIT OF SHIFTED TRAFFIC AREA (INCL. BARRELS/BARRIER)
- FLAGGER STATION (MOVES DAILY AS CONSTRUCTION PROGRESSES)
- TEMPORARY CONSTRUCTION LIMITS

0 10 20 30
SCALE IN METERS

SEGMENT F PHASE II TRAFFIC CONTROL PLAN 16

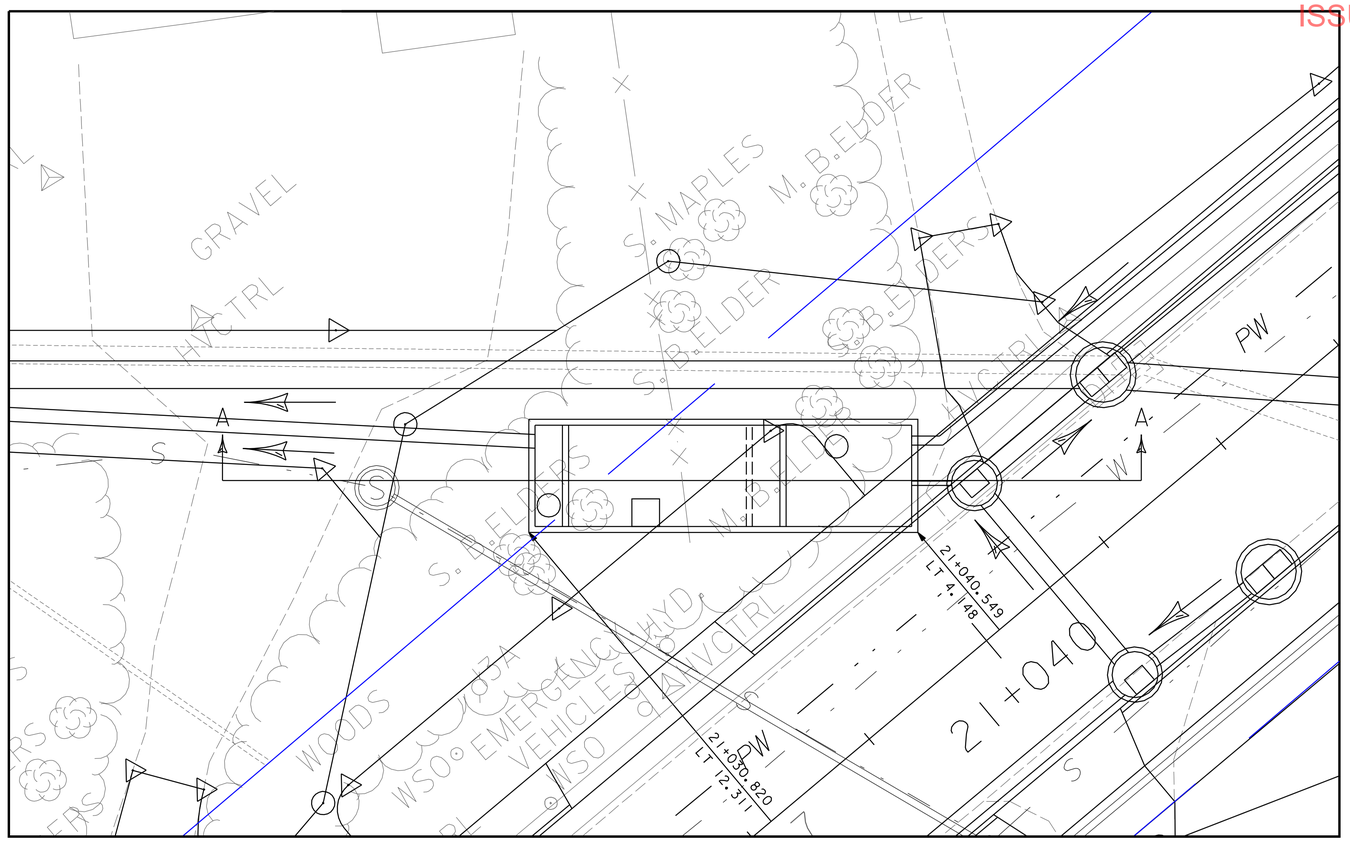
PROJECT NAME: BRANDON
PROJECT NUMBER: NH 019-3(496)

FILE NAME: zb008s6-tcp.dgn
PROJECT LEADER: C. BEAN
DESIGNED BY: J. FOWLER
PLOT DATE: 2/23/2017
DRAWN BY: J. FOWLER
CHECKED BY: J.FRYER
SHEET 460 OF 601

CLD 02-0448 MODEL: F-II-16

ISSUED FOR CONSTRUCTION

VAOT Metric



Z

VT STATE PLANE GRID

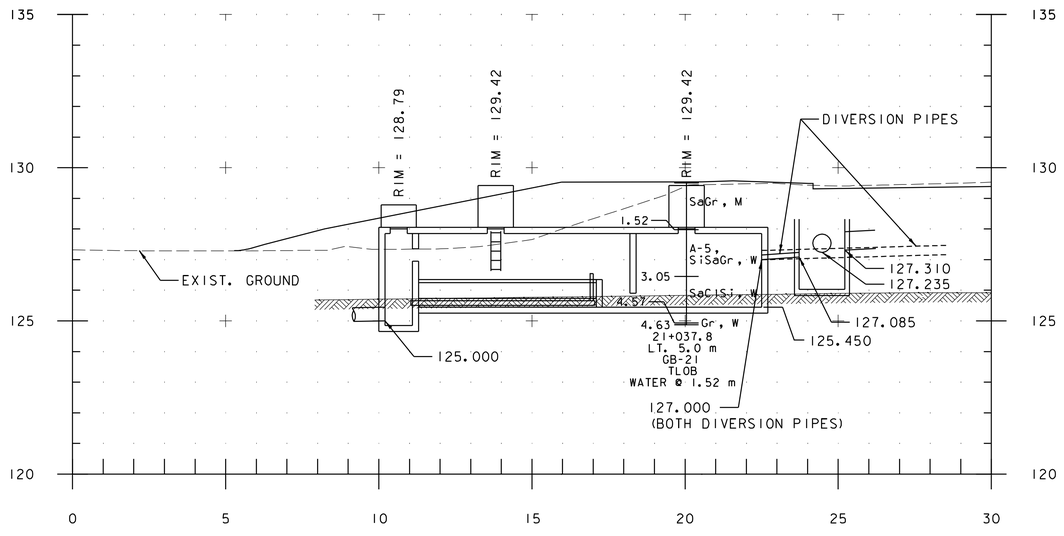
NOTES:

1. STATION AND OFFSET FOR WORKING POINTS ARE APPROXIMATE ONLY TO DEFINE GENERAL ORIENTATION OF STRUCTURE.

PLAN

0 2 4 6 8 10

SCALE 1:100



ELEVATION A-A

0 2 4 6 8 10

SCALE 1:100

STORMWATER TREATMENT STRUCTURE #1

PROJECT NAME: BRANDON

PROJECT NUMBER: NH 019-3(496)

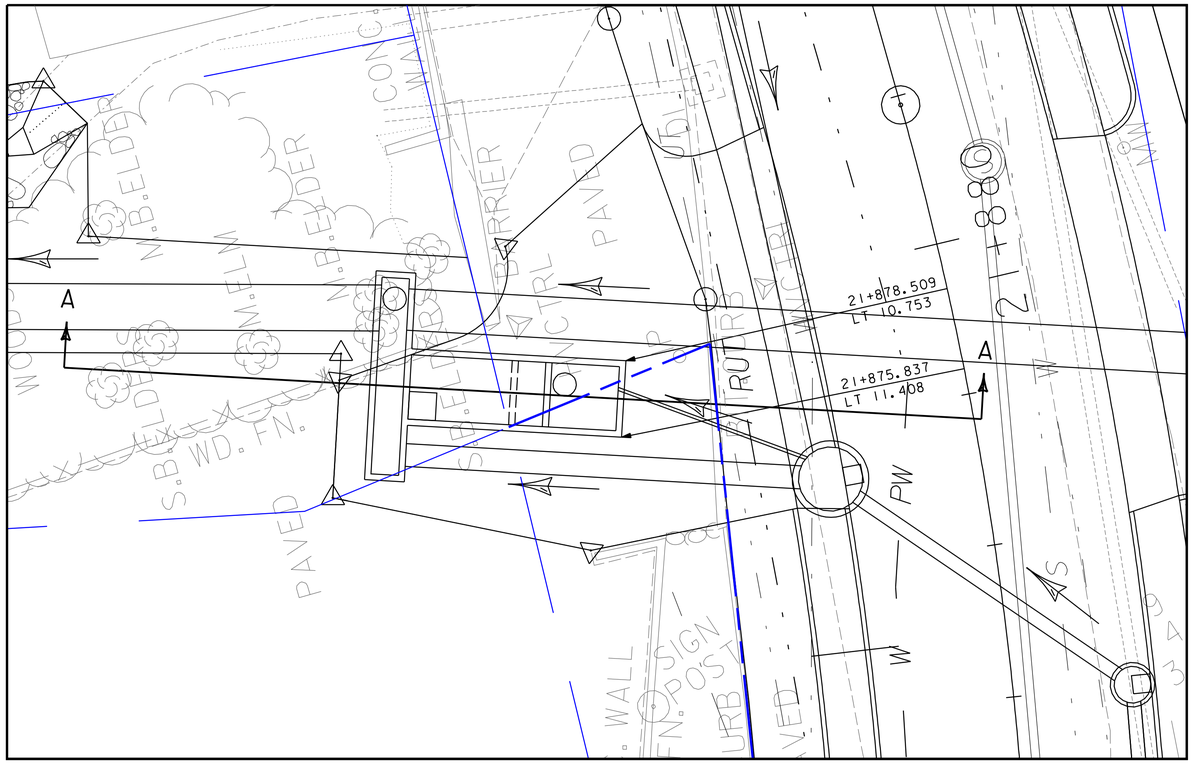
FILE NAME: zb008s6-swtdet.dgn
PROJECT LEADER: C. BEAN
DESIGNED BY: D. MUNRO

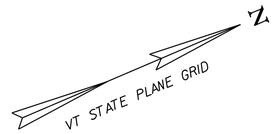
PLOT DATE: 2/23/2017
DRAWN BY: J. FOWLER
CHECKED BY: J.FRYER
SHEET 461 OF 601

CLD 02-0448 MODEL:1

ISSUED FOR CONSTRUCTION

VAOT Metric



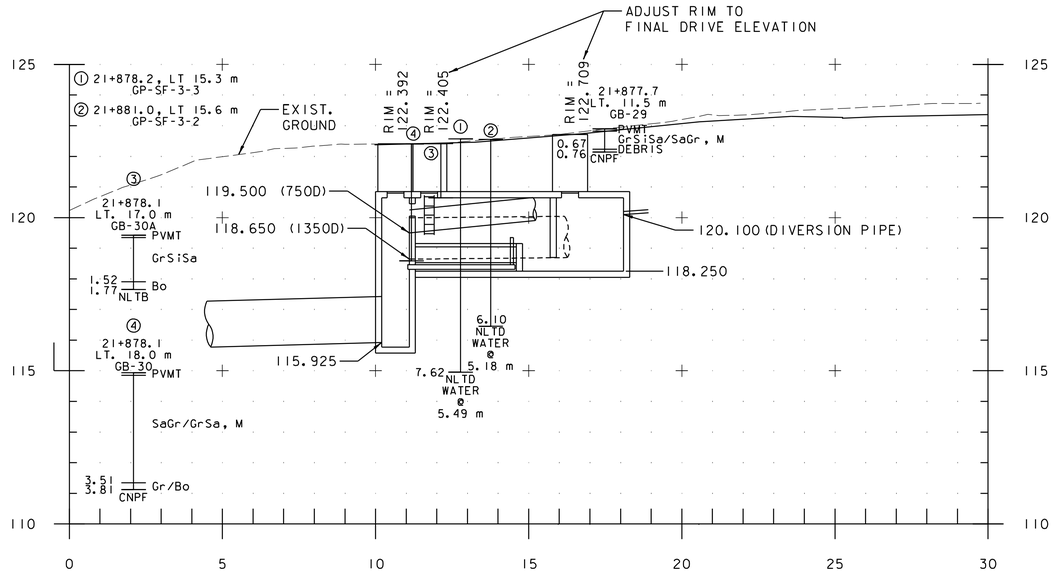


NOTES:

1. STATION AND OFFSET FOR WORKING POINTS ARE APPROXIMATE ONLY TO DEFINE GENERAL ORIENTATION OF STRUCTURE.

PLAN

0 2 4 6 8 10
SCALE 1:100



ELEVATION A-A

0 2 4 6 8 10
SCALE 1:100

STORMWATER TREATMENT STRUCTURE #2

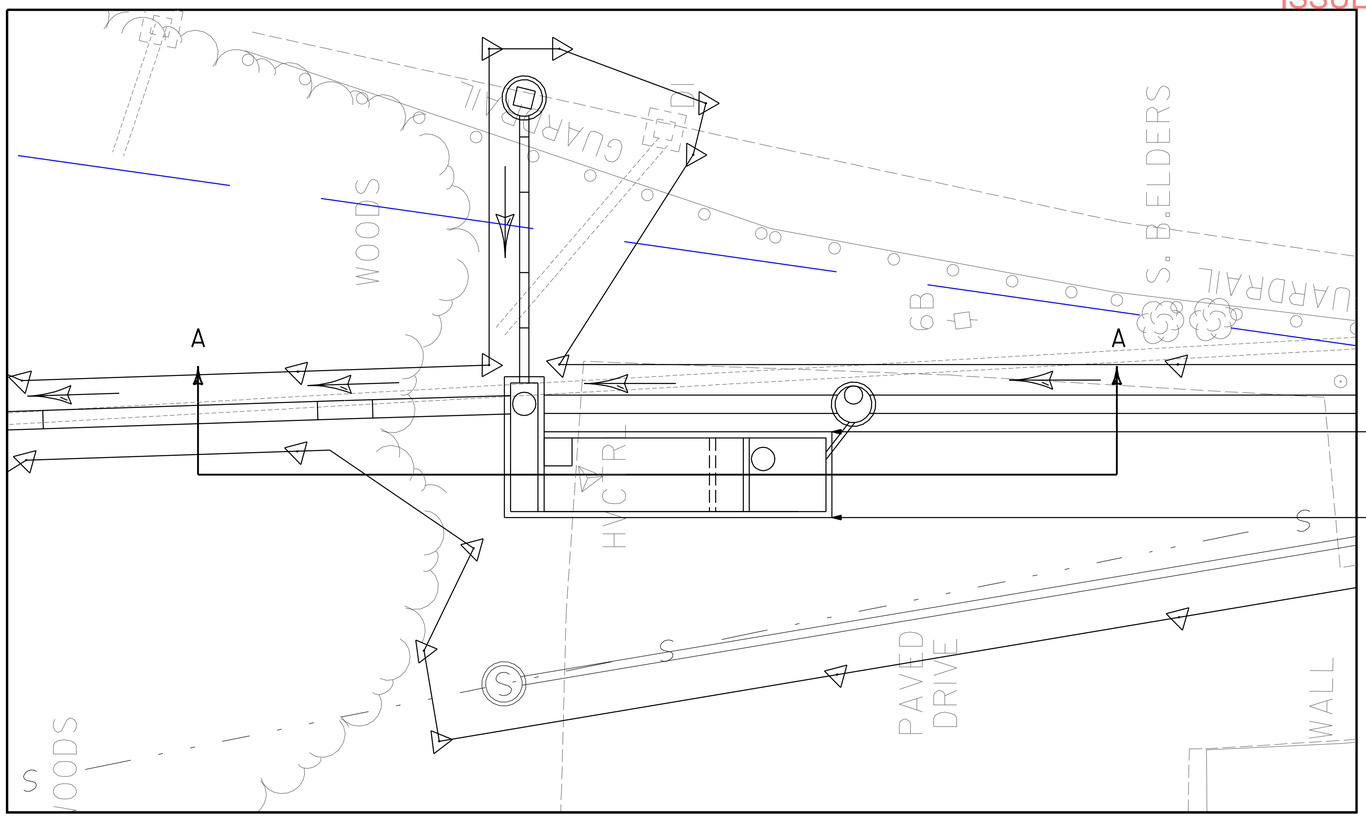
PROJECT NAME:	BRANDON
PROJECT NUMBER:	NH 019-3(496)
FILE NAME: zb008s6-swtdet.dgn	PLOT DATE: 2/23/2017
PROJECT LEADER: C. BEAN	DRAWN BY: J. FOWLER
DESIGNED BY: D. MUNRO	CHECKED BY: J.FRYER
	SHEET 462 OF 601

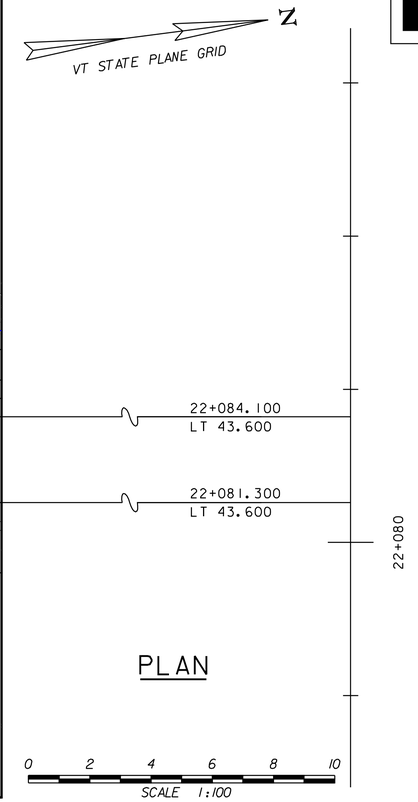
CLD 02-0448 MODEL: 2

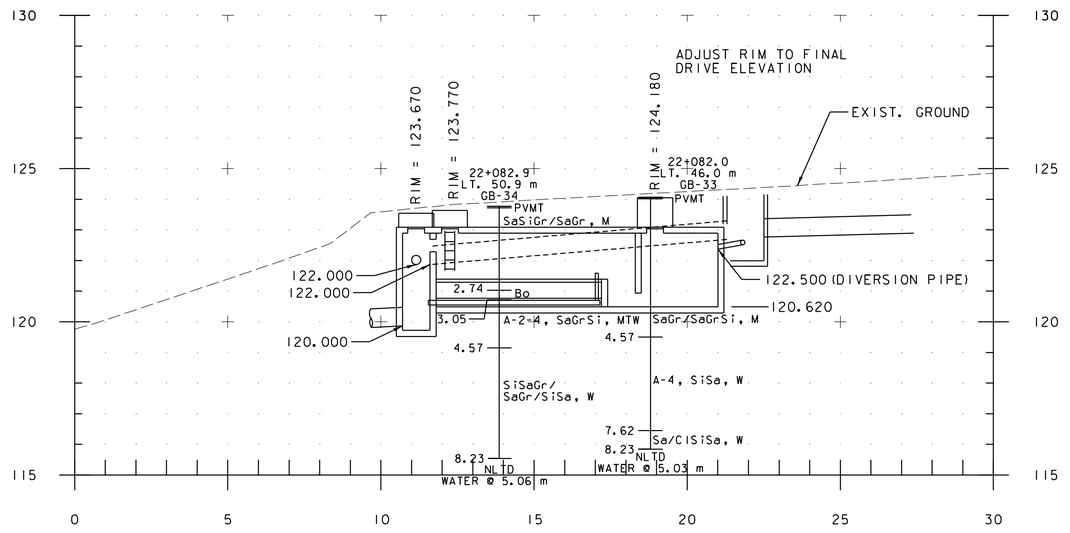
ISSUED FOR CONSTRUCTION

NOTES:

1. STATION AND OFFSET FOR WORKING POINTS ARE APPROXIMATE ONLY TO DEFINE GENERAL ORIENTATION OF STRUCTURE.







ELEVATION A-A

0 2 4 6 8 10
SCALE 1:100

STORMWATER TREATMENT STRUCTURE #3

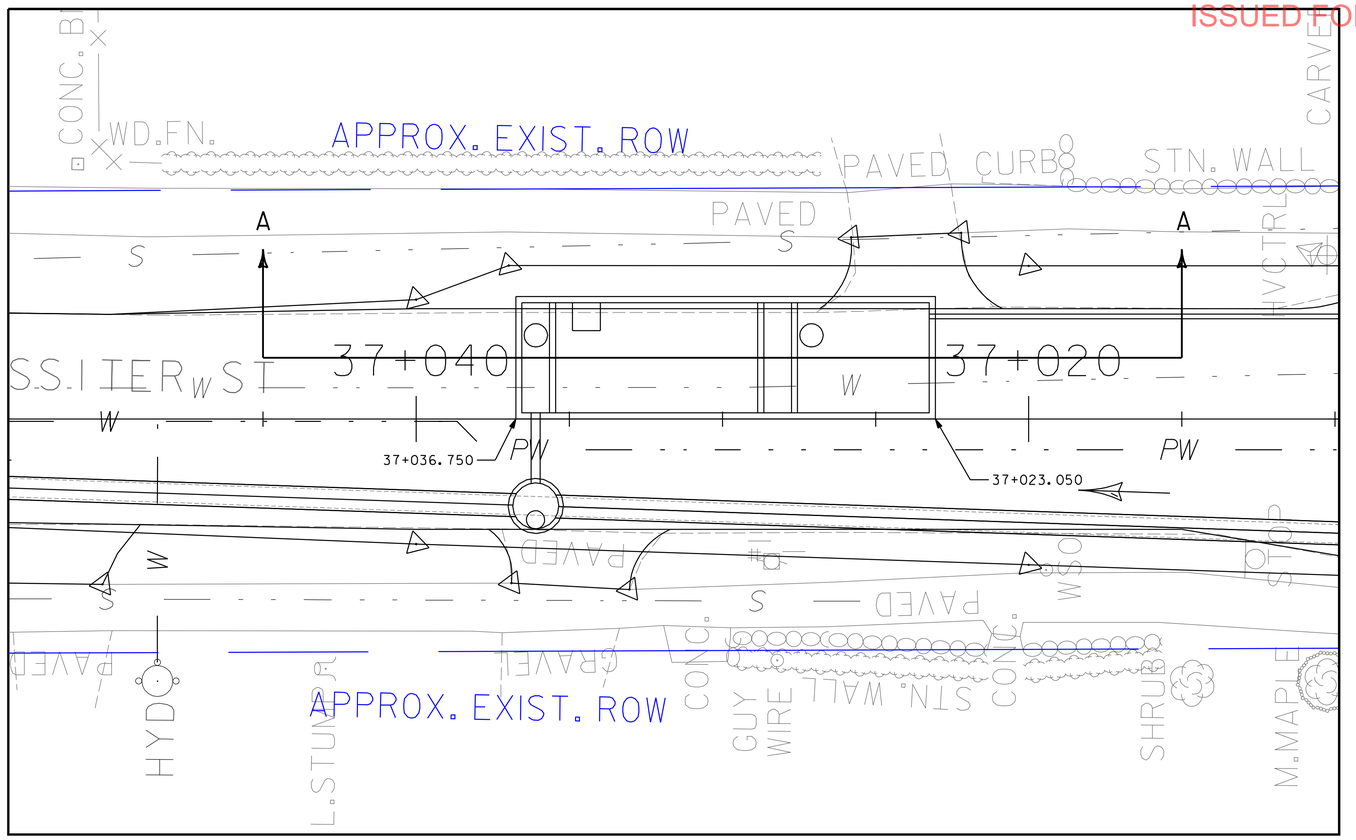
PROJECT NAME:	BRANDON
PROJECT NUMBER:	NH 019-3(496)

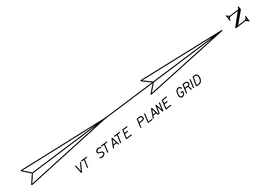
FILE NAME: zb0008s6-swtdet.dgn	PLOT DATE: 2/23/2017
PROJECT LEADER: C. BEAN	DRAWN BY: J. FOWLER
DESIGNED BY: D. MUNRO	CHECKED BY: J.FRYER
	SHEET 463 OF 601

CLD 02-0448 MODEL: 3

ISSUED FOR CONSTRUCTION

VAOT Metric



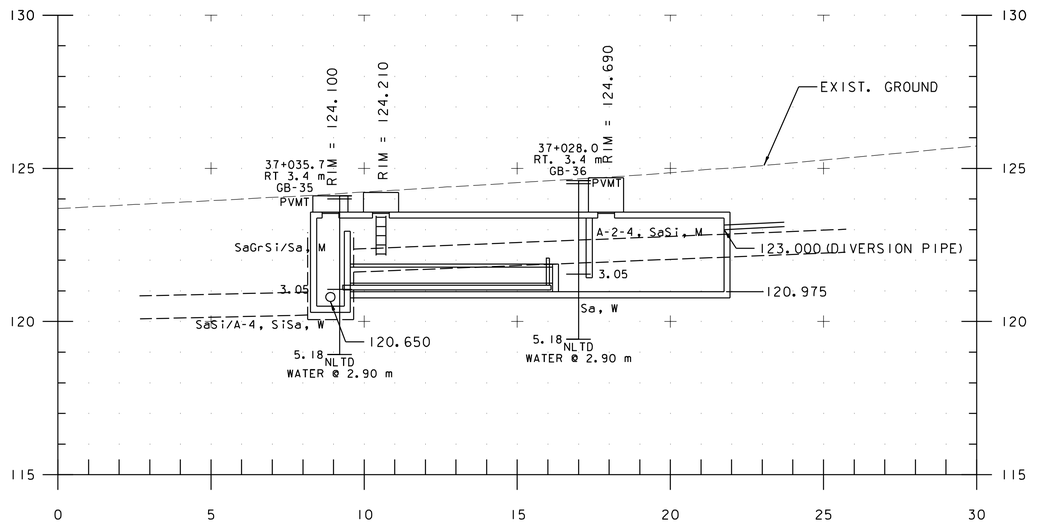


NOTES:

1. CONTRACTOR SHALL USE CAUTION WHEN EXCAVATING AND BACKFILLING IN AREA OF EXISTING SEWER. IF EXISTING SEWER IS DAMAGED, SEWER SHALL BE REPLACED USING SDR-35 PVC PIPE OF THE SAME DIAMETER AS EXISTING. NO ADDITIONAL PAYMENT WILL BE MADE FOR ANY SEWER REPAIRS.
2. STATION AND OFFSET FOR WORKING POINTS ARE APPROXIMATE ONLY TO DEFINE GENERAL ORIENTATION OF STRUCTURE.

PLAN

0 2 4 6 8 10
SCALE 1:100



ELEVATION A-A

0 2 4 6 8 10
SCALE 1:100

STORMWATER TREATMENT STRUCTURE #4

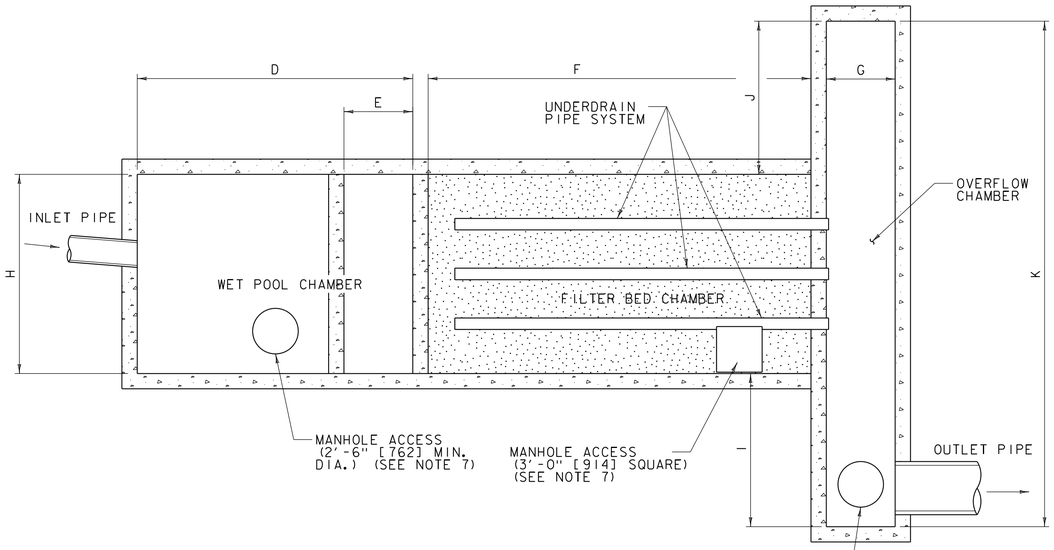
PROJECT NAME: BRANDON
PROJECT NUMBER: NH 019-3(496)

FILE NAME: zb0008s6-swtdet.dgn
PROJECT LEADER: C. BEAN
DESIGNED BY: D. MUNRO

PLOT DATE: 2/23/2017
DRAWN BY: J. FOWLER
CHECKED BY: J.FRYER
SHEET 464 OF 601

CLD 02-0448 MODEL: 4

ISSUED FOR CONSTRUCTION

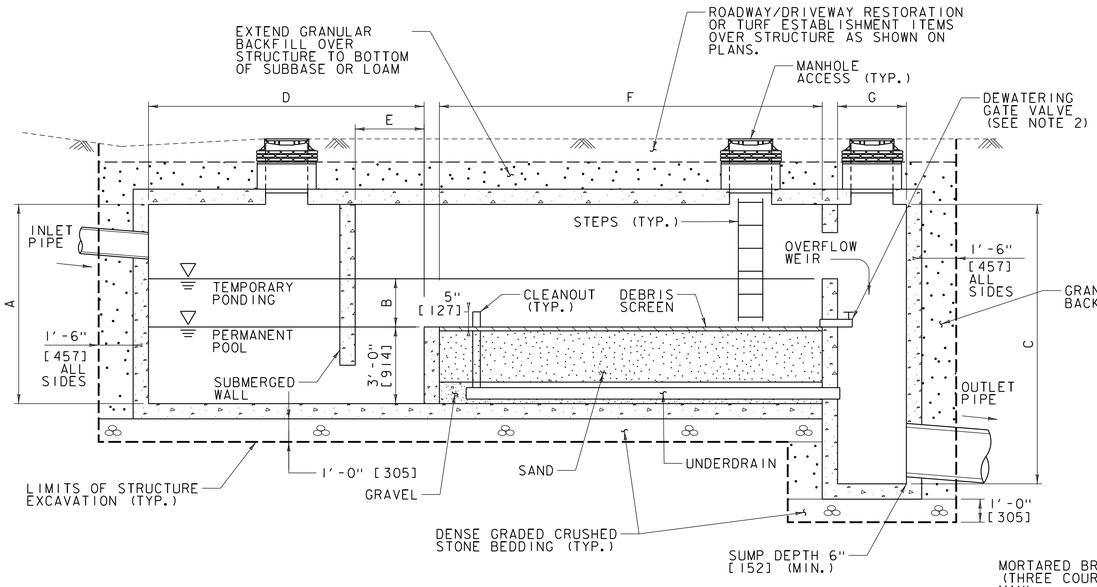


TYPICAL STRUCTURE PLAN

NOT TO SCALE

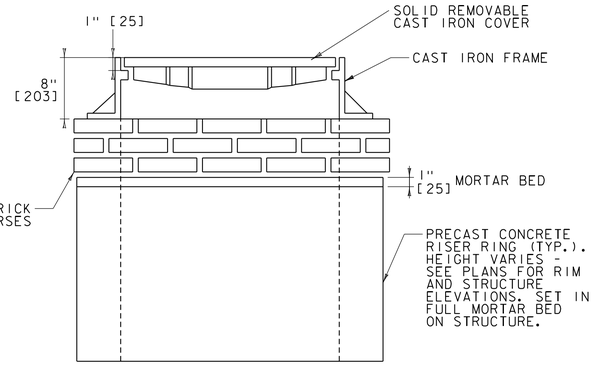
NOTES:

1. MATERIAL SPECIFICATIONS (SEE ALSO SPECIAL PROVISIONS):
   -STRUCTURES SHALL BE PRECAST CONCRETE, DESIGNED IN ACCORDANCE WITH AASHTO LRFD BRIDGE SPECIFICATIONS, CHAPTER 12 BURIED STRUCTURES, HL-93 LOADING.
   -PRECAST CONCRETE: f'c = 25 MPa (3500 psi)
   -UNDERDRAIN PIPING PERFORATIONS SHALL BE ⅜" [9.5] AT 6" [152] O.C., 4 PER ROW
2. DEWATERING GATE VALVE SHALL BE PROVIDED ABOVE THE TOP OF FILTER BED TO FACILITATE DRAINING THE FILTER BED IF NEEDED FOR FUTURE MAINTENANCE. GATE VALVE LOCATION AND OPERATION SHALL BE DETAILED ON THE WORKING DRAWINGS.
3. UNDERDRAIN CLEANOUT SHALL BE A TEE CONNECTION AND HAVE NO PERFORATIONS. CAP TOP OF CLEANOUT WITH REMOVABLE PVC CAP.
4. SAND BEDS TO BE PROTECTED FROM TRASH ACCUMULATION BY A WIDE MESH GEOTEXTILE DEBRIS SCREEN ON SURFACE OF SAND BED.
5. SURFACE OF FILTER BEDS TO BE COMPLETELY LEVEL.
6. SEE STANDARD D-15 FOR MANHOLE STEP REQUIREMENTS. STEPS SHALL BE INSTALLED IN RISER RINGS AND TANK CHAMBER, AND SHALL EXTEND TO THE TOP OF THE FILTER BED.
7. MANHOLE ACCESS PORTS SHALL BE SIZED TO MEET MINIMUM OSHA REQUIREMENTS FOR CONFINED SPACE ACCESS.
8. FIELD TESTING SHALL BE PERFORMED IN ACCORDANCE WITH THE SPECIAL PROVISION.
9. NO RUNOFF SHALL BE PERMITTED TO ENTER THE STRUCTURE UNTIL ALL CONTRIBUTING DRAINAGE AREAS HAVE BEEN STABILIZED. ENGINEER SHALL APPROVE STABILIZATION PRIOR TO PLACING THE STRUCTURE ON-LINE.
10. MAINTENANCE:
    -ONCE THE STRUCTURE IS ON-LINE, INSPECTIONS AND MAINTENANCE SHALL BE PERFORMED FOR THE DURATION OF THE PROJECT AND SHALL BE INCIDENTAL TO THE STORMWATER TREATMENT STRUCTURE ITEM.
    -REQUIRED INSPECTIONS AND MAINTENANCE SHALL BE IN CONFORMANCE WITH THE APPROVED STORMWATER PERMIT, VANR REQUIREMENTS, AND THE FOLLOWING GUIDELINES.
    -SYSTEM SHALL BE INSPECTED BY QUALIFIED PERSONNEL AT LEAST TWICE ANNUALLY, AND FOLLOWING ANY RAINFALL EVENT EXCEEDING 2.5 INCHES [64mm] IN A 24-HOUR PERIOD, WITH MAINTENANCE OR REHABILITATION AS WARRANTED BY SUCH INSPECTION, AND AS DIRECTED BY THE ENGINEER.
    -TRASH AND DEBRIS SHALL BE REMOVED AT EACH INSPECTION.
    -SEDIMENT SHALL BE CLEANED OUT OF THE WET POOL CHAMBER WHEN IT ACCUMULATES TO A DEPTH OF MORE THAN SIX INCHES [152mm].
    -SILT / SEDIMENT TO BE REMOVED FROM THE FILTER BED WHEN THE ACCUMULATION EXCEEDS ONE INCH [25mm]. DEBRIS SCREEN TO BE ROLLED UP, REMOVED, CLEANED AND REINSTALLED OVER CLEAN BED MATERIAL.
    -REMOVED SEDIMENT SHALL BE DISPOSED OF IN A LEGAL MANNER IN ACCORDANCE WITH ALL LOCAL, STATE AND FEDERAL REGULATIONS.



TYPICAL STRUCTURE ELEVATION

NOT TO SCALE



MANHOLE ACCESS DETAIL

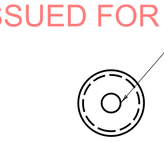
NOT TO SCALE

	DIMENSIONS											
	A	B	C	D	E	F	G	H	I	J	K	
STRUCTURE #1	8'-0" [2438]	2'-0" [610]	10'-0" [3048]	17'-0" [5182]	3'-0" [914]	19'-0" [5791]	3'-0" [914]	11'-0" [3353]	0.00	0.00	11'-0" [3353]	
STRUCTURE #2	8'-0" [2438]	3'-0" [914]	16'-0" [4877]	11'-0" [3353]	3'-0" [914]	11'-0" [3353]	3'-0" [914]	7'-0" [2134]	8'-0" [2438]	6'-0" [1829]	21'-0" [6401]	
STRUCTURE #3	8'-0" [2438]	3'-0" [914]	10'-5" [3175]	~~12'-0" [3658]~~	3'-0" [914]	~~18'-0" [5486]~~	3'-0" [914]	~~8'-0" [2438]~~	6'-0" [1829]	0.00	~~14'-0" [4267]~~	13'-0" [3962]
STRUCTURE #4	8'-0" [2438]	3'-6" [1067]	9'-6" [2896]	~~18'-0" [5486]~~	3'-0" [914]	~~22'-0" [6706]~~	3'-0" [914]	~~12'-0" [3658]~~	0.00	0.00	~~12'-0" [3658]~~	11'-0" [3353]
				17'-0" [5182]		24'-0" [7315]		11'-0" [3353]				

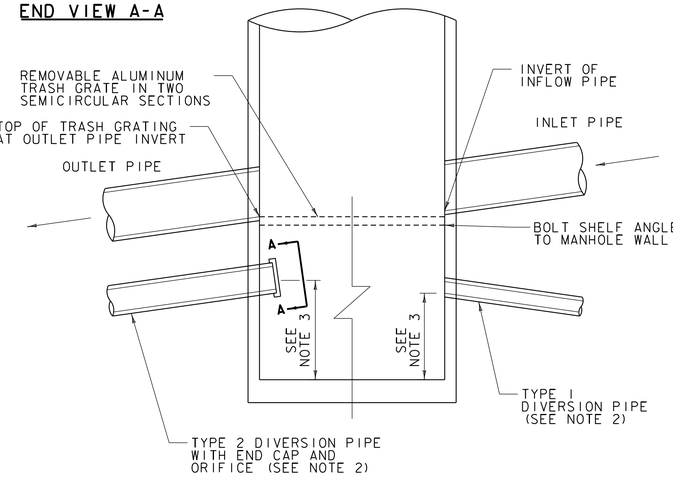
13'-0" [3962] 20'-0" [6096] 7'-0" [2134]

STORMWATER TREATMENT STRUCTURES 1, 2, 3 & 4 (UNDERGROUND SAND FILTER)

REV	DATE	DESCRIPTION
2	4/6/2017	REVISED STORMWATER TREATMENT STRUCTURE DIMENSIONS



END VIEW A-A



NOTES:

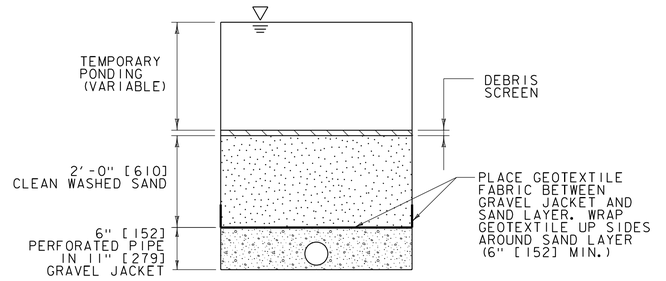
1. DIVERSION STRUCTURE SHALL CONSIST OF A MODIFIED PRCCB OR PRCMH AS IDENTIFIED ON PLANS AND ALL MODIFICATIONS INCLUDING TRASH GRATE INSTALLATION SHALL BE CONSIDERED INCIDENTAL TO THE PRCCB OR PRCMH PAY ITEM.
2. "FIRST FLUSH" OUTLET DIVERSION PIPE TO STORMWATER TREATMENT STRUCTURE OR GRASS CHANNEL SHALL BE EITHER A TYPE 1 OR TYPE 2 DIVERSION PIPE AS NOTED ON THE DRAINAGE PLANS:

   TYPE 1- NEW PVC PIPE WITH DIAMATER AS SPECIFIED ON DRAINAGE PLANS AND INVERT ELEVATION AS NOTED ON CROSS SECTIONS.

   TYPE 2- NEW 12" [300] CPEP(SL) WITH END CAP AND ORIFICE HOLE IN END CAP. BOTH PIPE AND ORIFICE SET TO ELEVATIONS AS NOTED ON THE CROSS SECTIONS. THE PIPE SHALL EXTEND INTO THE PRCCB OR PRCMH SUCH THAT THE CAP CAN BE EASILY REMOVED AND REPLACED FOR MAINTENANCE. THE END CAP CONNECTION TO THE DIVERSION PIPE SHALL BE WATER TIGHT. END CAP SHALL BE INCIDENTAL TO THE CPEP(SL) PAY ITEM.
3. A MINIMUM 3' [914] SUMP SHALL BE PROVIDED BELOW THE TYPE 1 PIPE INVERT OR BELOW THE INVERT OF THE ORIFICE FOR TYPE 2 PIPE.
4. PROVIDE WORKING DRAWINGS SHOWING HOW THE REMOVABLE TRASH GRATE WILL BE INSTALLED, SHOWING END CAP CONNECTION METHOD AND HOW THE ORIFICE WILL BE INSTALLED FOR THE TYPE 2 DIVERSION PIPE, AS WELL AS ALL DIMENSIONS AND ELEVATIONS.

DIVERSION STRUCTURE

NOT TO SCALE



SAND FILTER SECTION

NOT TO SCALE

STORMWATER TREATMENT STRUCTURE DETAILS

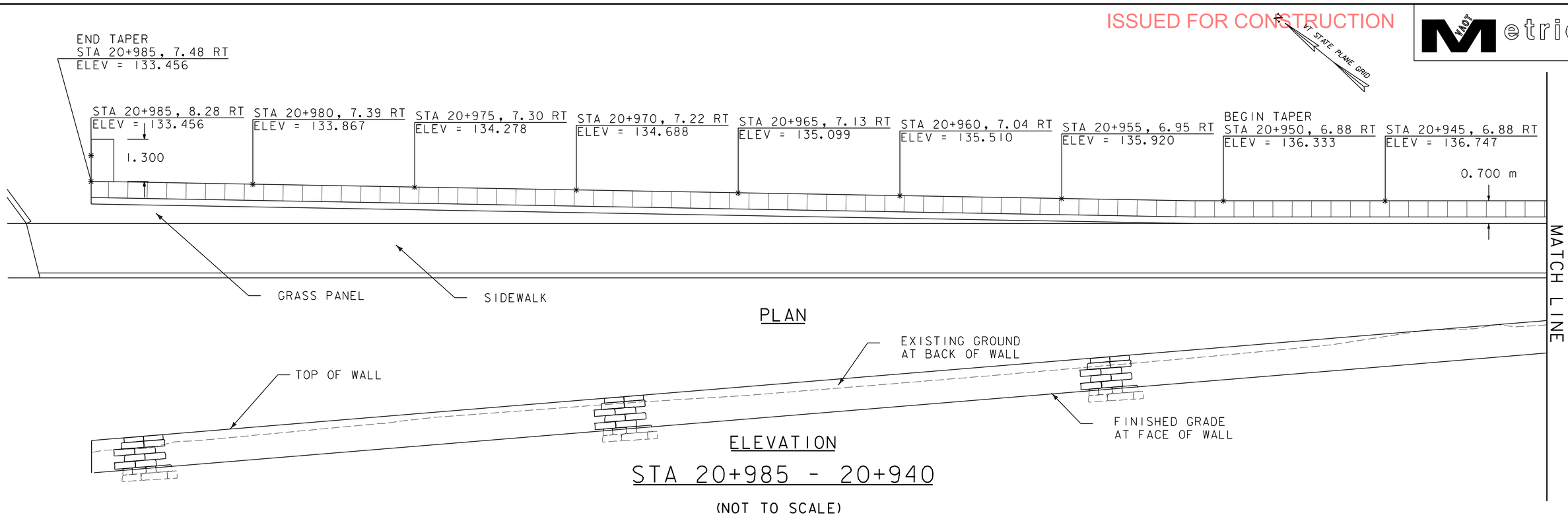
PROJECT NAME: BRANDON
PROJECT NUMBER: NH 019-3(496)

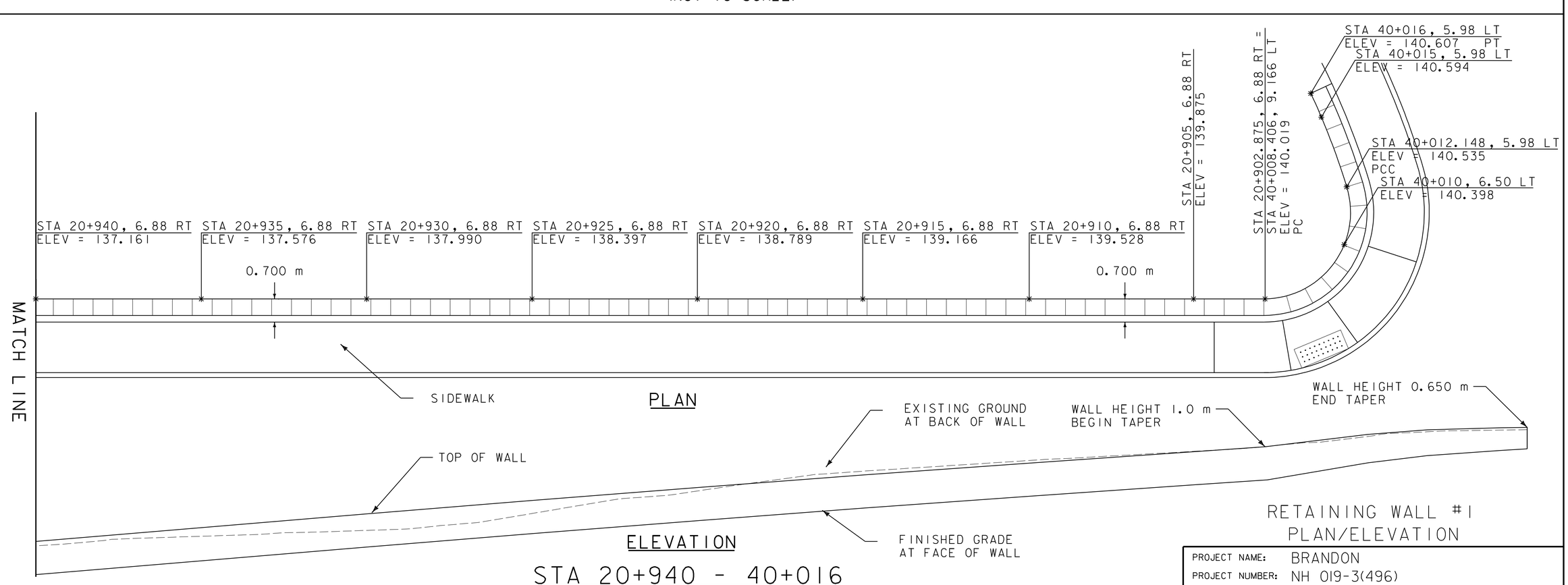
FILE NAME: zb008s6-swtdet.dgn
PROJECT LEADER: C. BEAN
DESIGNED BY: D. MUNRO
PLOT DATE: 4/6/2017
DRAWN BY: J. FOWLER
CHECKED BY: J.FRYER
SHEET 465 OF 601

CLD 02-0448 MODEL: 5

ISSUED FOR CONSTRUCTION

VAOT Metric





NOTE:
1. ALL ELEVATIONS ARE AT TOP OF CAP STONE AT BACK OF WALL.
2. TOTAL WALL LENGTH AT BACK OF WALL = 90.06 m.

RETAINING WALL #1 PLAN/ELEVATION

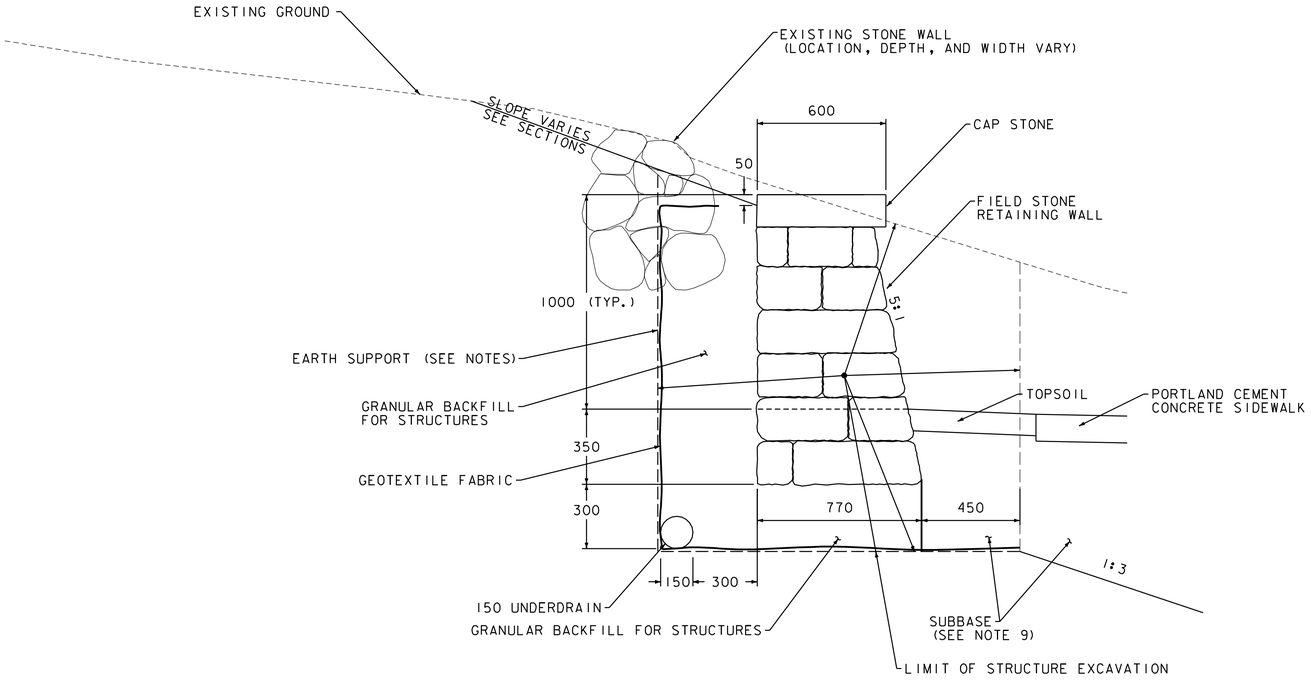
PROJECT NAME:	BRANDON
PROJECT NUMBER:	NH 019-3(496)

FILE NAME: zb008s6-retwall.dgn		PLOT DATE:	2/23/2017
PROJECT LEADER:	C. BEAN	DRAWN BY:	N. LEMAY
DESIGNED BY:	N. LEMAY	CHECKED BY:	D. MUNRO
		SHEET	466 OF 601

CLD 02-0448 MODEL: IA

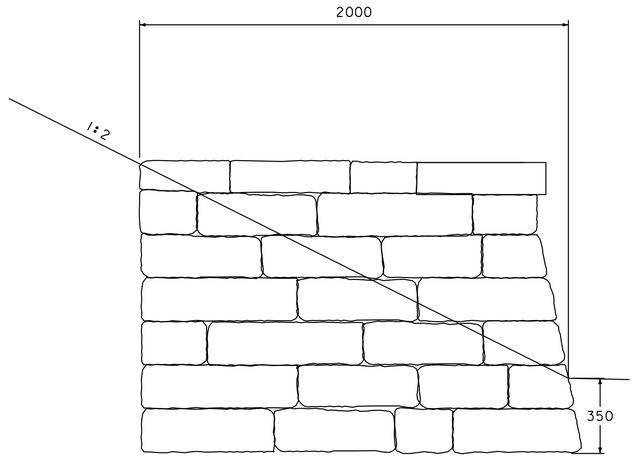
ISSUED FOR CONSTRUCTION

VAOT Metric



TYPICAL SECTION

(NOT TO SCALE)



TYPICAL END ELEVATION

(NOT TO SCALE)

NOTES

1. FIELD STONE SHALL BE NATIVE TO THE AREA, ROUGHLY RECTANGULAR, AND HAVE AT LEAST ONE WEATHERED FACE.
2. FIELD STONE FACES SHALL MEASURE BETWEEN 200 - 500 mm ON ALL FACES.
3. WEATHERED SIDE OF FIELD STONE TO BE PLACED ON WALL FACE.
4. HORIZONTAL AND VERTICAL JOINT WIDTH NOT TO EXCEED 75 mm MAXIMUM. HORIZONTAL JOINTS SHALL BE PARALLEL. STAGGER VERTICAL JOINTS 75 mm MINIMUM.
5. FIELD STONE SHALL BE PAID FOR UNDER ITEM 602.20, DRY MASONRY.
6. TOP OF WALL SHALL SLOPE PARALLEL TO ADJACENT FINISH GRADE. FIELD STONE COURSING BEDS SHALL BE ROUGHLY PARALLEL TO THE TOP OF THE WALL.
7. THE LARGEST STONES SHALL BE USED AT THE BASE OF THE WALL AND THE SIZE OF THE STONES SHALL DECREASE AS COURSES ARE LAID. STONES USED IN THE TOP COURSE BELOW THE CAP STONE SHALL NOT BE SMALLER IN HEIGHT THAN THE SPECIFIED CAP STONE.
8. THE CAP STONE SHALL BE 150 mm x 600 mm x 600 mm MINIMUM (50 mm TOLERANCE).
9. DETAIL DEPICTS SMALL GRASS AREA BEHIND SIDEWALK (TYP.). IN AREAS WHERE SIDEWALK IS DIRECTLY ADJACENT TO WALL AS SHOWN ON LAYOUTS, ROADWAY SUBBASE SHALL EXTEND COMPLETELY BENEATH SIDEWALK TO FACE OF WALL.
10. EXCAVATION TO INSTALL WALL SHALL BE PAID UNDER ITEM 204.25 STRUCTURE EXCAVATION. TEMPORARY SHEET PILING OR OTHER APPROVED METHODS SHALL BE USED IN LIEU OF A STABLE EXCAVATION BACKSLOPE WHEN NECESSARY TO REDUCE TREE/ROOT IMPACTS DURING STONE WALL INSTALLATION. SEE PLANS FOR APPROXIMATE LOCATIONS. TEMPORARY EARTH SUPPORT IS INCIDENTAL TO ITEM 204.25 STRUCTURE EXCAVATION.
11. APPROXIMATE DEPTH OF LEDGE IN VICINITY OF WALL IS SHOWN ON CROSS SECTIONS. ACTUAL DEPTH OF LEDGE ALONG THE WALL SHOULD BE VERIFIED BY THE CONTRACTOR. A SUITABLE METHOD OF EARTH SUPPORT IN AREAS OF SHALLOW LEDGE SHALL BE SUBMITTED BY CONTRACTOR FOR APPROVAL.
12. CONTRACTOR TO REMOVE ALL STONE FROM EXISTING WALL THAT INTERFERES WITH THE CONSTRUCTION OF THE NEW WALL OR INSTALLATION OF TEMPORARY EARTH SUPPORT. HAND METHODS OR OTHER APPROVED METHODS SHALL BE USED TO AVOID TREE/ROOT IMPACTS. ALL EXISTING STONE THAT COULD ROLL/FALL ONTO OR OVER PROPOSED WALL SHALL BE REMOVED.
13. GRANULAR BACKFILL FOR STRUCTURES, UNDERDRAIN AND SUBBASE SHALL BE PAID FOR SEPARATELY UNDER THEIR RESPECTIVE PAY ITEMS. GEOTEXTILE FABRIC SHALL BE INCIDENTAL TO THE UNDERDRAIN PAY ITEM AND SHALL MEET THE REQUIREMENTS OF ITEM 649.41 GEOTEXTILE FOR UNDERDRAIN TRENCH LINING.

RETAINING WALL #1 DETAILS

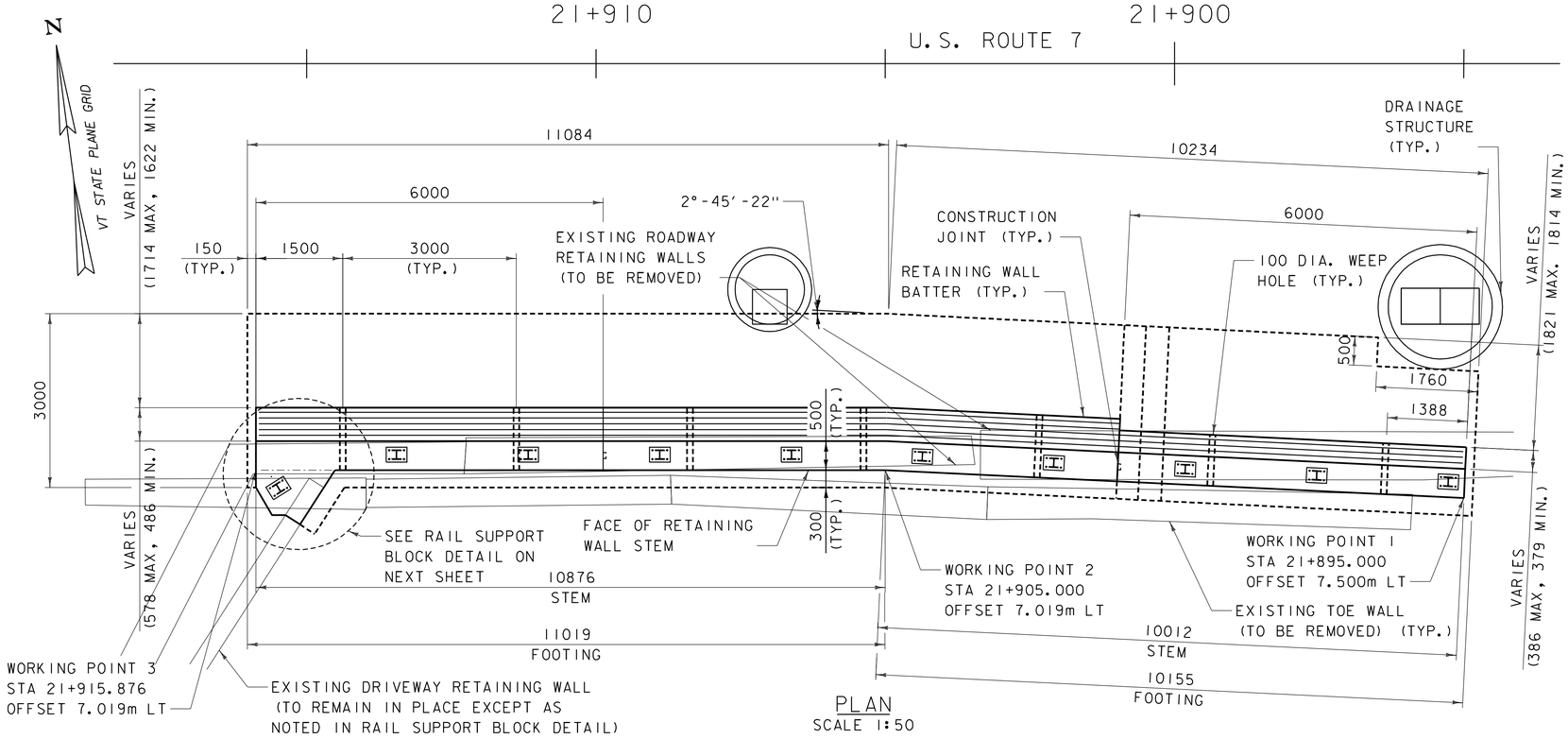
PROJECT NAME: BRANDON
PROJECT NUMBER: NH 019-3(496)

FILE NAME: zb008s6-retwall.dgn
PROJECT LEADER: C. BEAN
DESIGNED BY: N. LEMAY
PLOT DATE: 2/23/2017
DRAWN BY: N. LEMAY
CHECKED BY: D. MUNRO
SHEET 467 OF 601

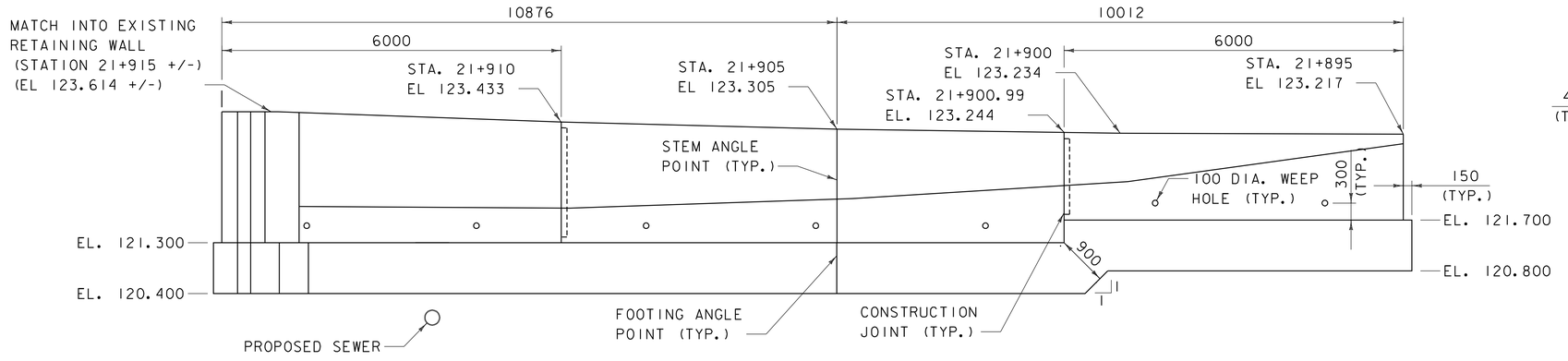
CLD 02-0448 MODEL: IB

ISSUED FOR CONSTRUCTION

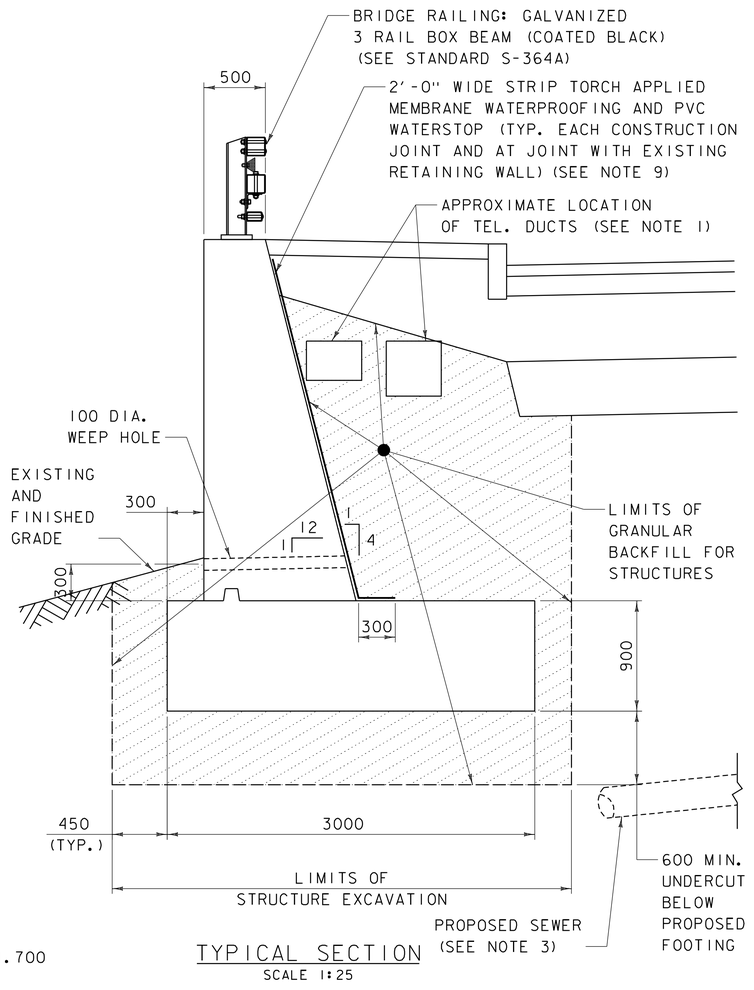
VAOT Metric



PLAN
SCALE 1:50



ELEVATION
SCALE 1:50



TYPICAL SECTION
SCALE 1:25

NOTES:

1. THE ACTIVE TELEPHONE DUCT SHALL REMAIN IN PLACE AND HAVE TEMPORARY SUPPORT DURING CONSTRUCTION. THIS WORK WILL BE CONSIDERED INCIDENTAL TO ITEM 204.25, STRUCTURE EXCAVATION.
2. DURING CLOSURE OF BRIGGS LANE, CONTRACTOR SHALL COORDINATE ALTERNATIVE PARKING AND ACCESS WITH AFFECTED PROPERTY OWNERS.
3. PROPOSED SEWER TO PASS UNDER RETAINING WALL FOOTING. REFER TO WATER/SEWER PLAN 11 AND SEWER PROFILE 5. LOCATION OF PROPOSED SEWER IS APPROXIMATE. ADJUSTMENTS MAY BE REQUIRED BASED ON ACTUAL LOCATION OF EXISTING SEWER FOUND DURING CONSTRUCTION.
4. BORINGS IN THE VICINITY OF THE WALL INDICATE POSSIBLE PRESENCE OF CONTAMINATED SOILS. CONTRACTOR WILL BE RESPONSIBLE FOR PROPERLY HANDLING/DISPOSING OF ANY ENCOUNTERED CONTAMINATED SOILS OR GROUNDWATER DURING EXCAVATION AND DEWATERING. SEE PROJECT GENERAL NOTES FOR MORE INFORMATION.
5. DEPTH TO LEDGE INFORMATION NOT AVAILABLE AT LOCATION OF WALL. BORINGS PERFORMED AT AND IN VICINITY OF WALL INDICATE THAT LEDGE WAS NOT ENCOUNTERED ABOVE ELEVATION 120. THE CONTRACTOR SHALL DESIGN AN EARTH SUPPORT SYSTEM IN ACCORDANCE WITH SECTION 204 OF THE VTRANS STANDARD SPECIFICATIONS FOR CONSTRUCTION. THE EARTH SUPPORT SYSTEM, INCLUDING THE DESIGN, SHALL BE CONSIDERED INCIDENTAL TO ITEM 204.25, STRUCTURE EXCAVATION.
6. THE EXISTING ROADWAY RETAINING WALLS AND TOE WALLS SHALL BE REMOVED IN THEIR ENTIRETY. PAYMENT FOR REMOVAL WILL CONSIDERED INCIDENTAL TO ITEM 204.25, STRUCTURE EXCAVATION. PORTIONS OF EXISTING RETAINING WALL AND TOE WALL REMOVED OUTSIDE THE LIMITS OF STRUCTURE EXCAVATION SHALL BE BACKFILLED WITH GRANULAR BACKFILL FOR STRUCTURES.
7. ALL CAST-IN-PLACE CONCRETE FOR THE RETAINING WALLS SHALL BE ITEM 501.34, CONCRETE, HIGH PERFORMANCE CLASS B.
8. ITEM 514.10, WATER REPELLENT, SILANE, SHALL BE APPLIED TO ALL EXPOSED CONCRETE SURFACES TO 1'-0" BELOW GRADE. THIS WORK WILL BE PAID FOR UNDER ITEM 514.10, WATER REPELLENT, SILANE.
9. PVC WATERSTOP WILL BE CONSIDERED INCIDENTAL TO ITEM 501.34, CONCRETE, HIGH PERFORMANCE CLASS B.
10. THE DRAINAGE STRUCTURE AT STA. 21+907 LT SHALL SIT DIRECTLY ON THE FOOTING HEEL. CARE SHALL BE TAKEN TO ENSURE THE FOOTING IS NOT DAMAGED DURING DRAINAGE STRUCTURE INSTALLATION.
11. THE FOOTING HEEL SHALL BE NOTCHED TO ACCOMMODATE THE DRAINAGE STRUCTURE AT STA. 21+895.4 LT. THE BOTTOM OF THE DRAINAGE STRUCTURE EXTENDS BELOW THE BOTTOM OF FOOTING APPROXIMATELY 200mm. ITEM 541.45, CONTROLLED DENSITY (FLOWABLE) FILL, SHALL BE USED AS NEEDED UNDERNEATH THE FOOTING HEEL TO PREVENT UNDERMINING AND BETWEEN THE FOOTING HEEL AND THE DRAINAGE STRUCTURE.
12. NO VEHICLES WILL BE ALLOWED ON BRIGGS LANE DURING DRAINAGE STRUCTURE INSTALLATION UNTIL THE DRAINAGE STRUCTURE IS IN PLACE AND THE WALL IS FULLY BACKFILLED.
13. SEE STANDARD SD-501.00 FOR CONSTRUCTION JOINT DETAIL.

RETAINING WALL #2

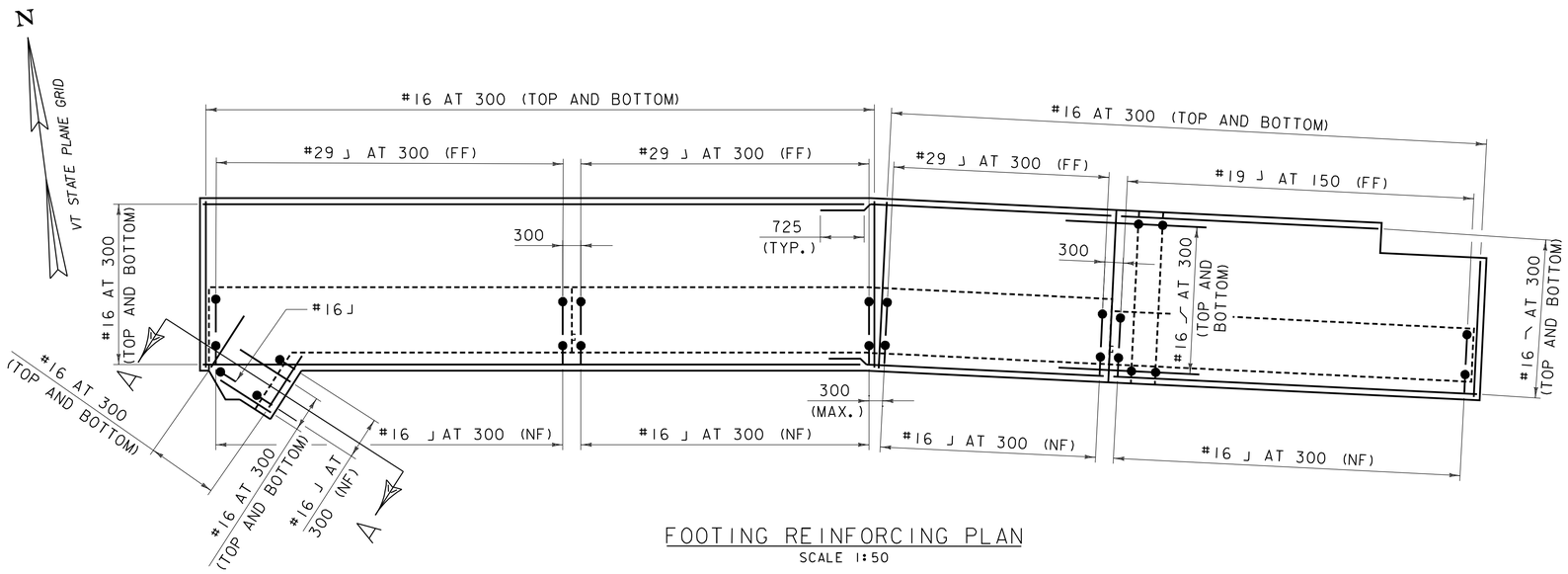
PROJECT NAME: BRANDON
PROJECT NUMBER: NH 019-3(496)

FILE NAME: zb008s6-retwall.dgn
PROJECT LEADER: C. BEAN
DESIGNED BY: N. CARON
PLOT DATE: 2/23/2017
DRAWN BY: M. SMITH
CHECKED BY: S. BEAUMONT
SHEET 468 OF 601

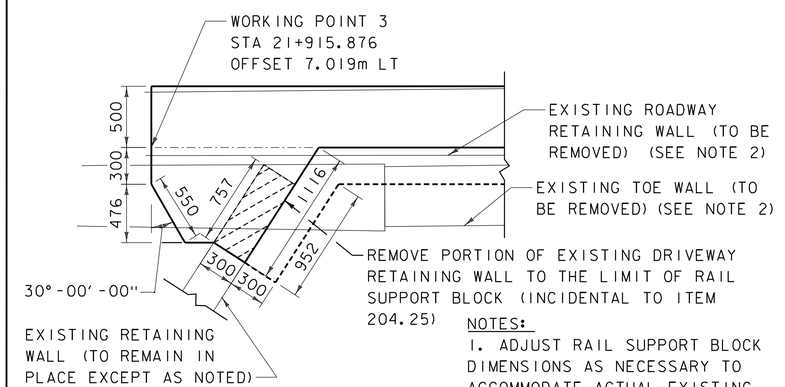
CLD 02-0448 MODEL: 2A

ISSUED FOR CONSTRUCTION

VAOT Metric



FOOTING REINFORCING PLAN
SCALE 1:50

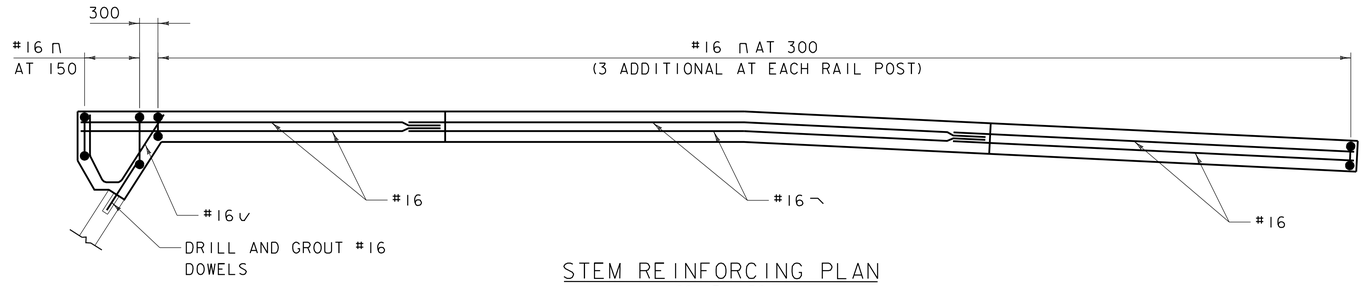


RAIL SUPPORT BLOCK DETAIL
SCALE 1:25

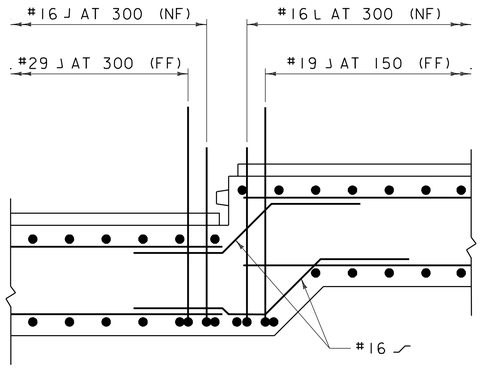
NOTES:

1. ADJUST RAIL SUPPORT BLOCK DIMENSIONS AS NECESSARY TO ACCOMMODATE ACTUAL EXISTING RETAINING WALL GEOMETRY.

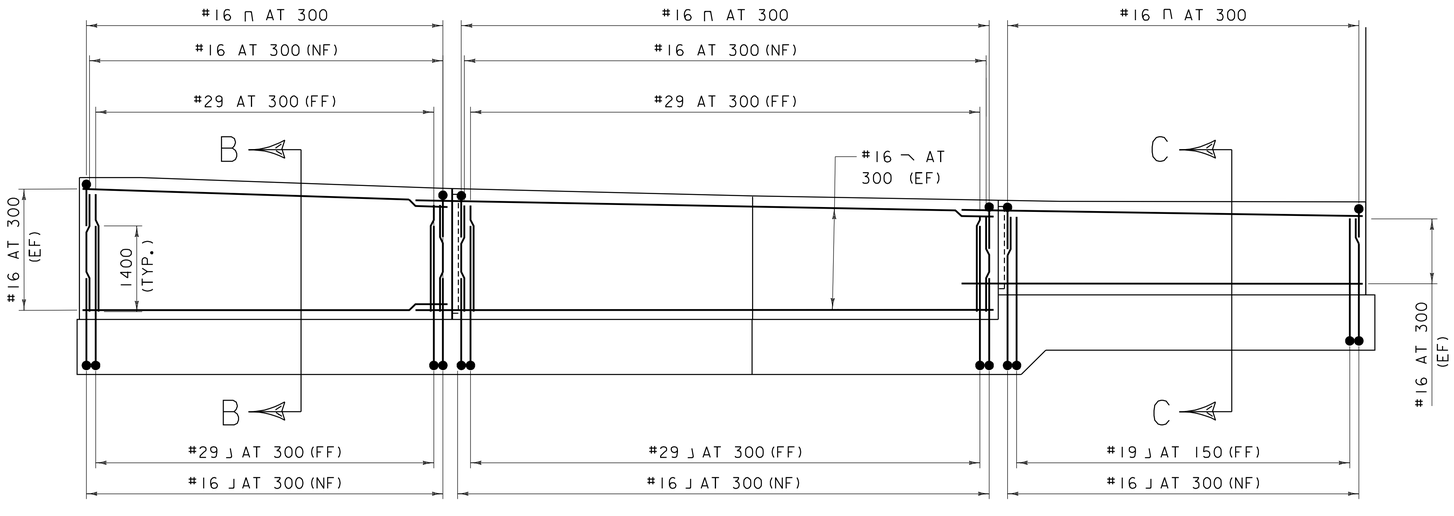
2. LIMITS OF EXISTING ROADWAY RETAINING WALL AND TOE WALL REMOVAL NOT SHOWN FOR CLARITY.



STEM REINFORCING PLAN
SCALE 1:50



FOOTING STEP REINFORCING DETAIL
SCALE 1:25



STEM REINFORCING ELEVATION
SCALE 1:50

NOTES:

1. SEE NEXT SHEET FOR TYPICAL REINFORCING SECTIONS AND SECTION A-A.

2. ALL REINFORCING STEEL IN RETAINING WALLS SHALL BE ITEM 507.11, REINFORCING STEEL, LEVEL 1.

3. EF = EACH FACE
   NF = NEAR FACE
   FF = FAR FACE
   50 CLEAR UNLESS OTHERWISE SPECIFIED ON THE THE PLANS.
   525 BAR LAP UNLESS OTHERWISE SPECIFIED ON THE PLANS

   THE BAR SPACINGS SHOWN ARE A MAXIMUM.

4. A REINFORCING STEEL SCHEDULE AND SHOP DRAWINGS MEETING THE REQUIREMENTS OF SUBSECTION 105.03 SHALL BE SUBMITTED. PAYMENT FOR THIS WORK WILL BE CONSIDERED INCIDENTAL TO ITEM 507.11, REINFORCING STEEL, LEVEL 1.

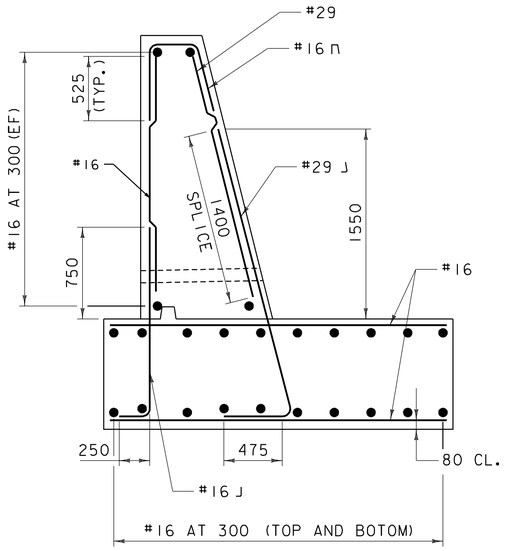
RETAINING WALL #2

PROJECT NAME:	BRANDON
PROJECT NUMBER:	NH 019-3(496)

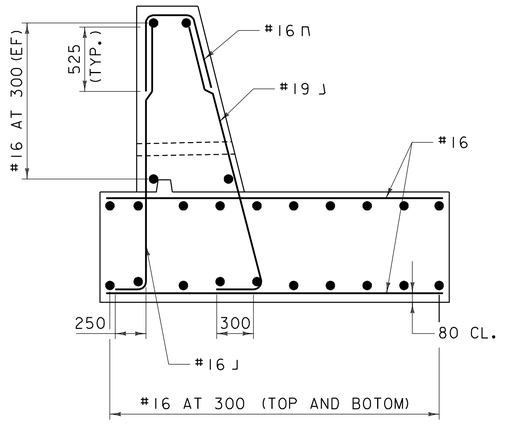
FILE NAME: zb008s6-retwall.dgn	PLOT DATE: 2/23/2017
PROJECT LEADER: C. BEAN	DRAWN BY: M. SMITH
DESIGNED BY: N. CARON	CHECKED BY: S. BEAUMONT
	SHEET 469 OF 601

CLD 02-0448 MODEL: 2B

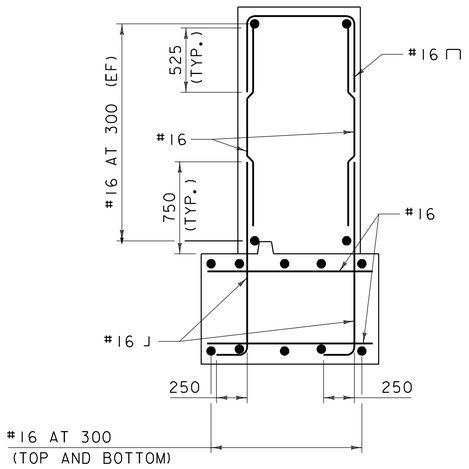
ISSUED FOR CONSTRUCTION



SECTION B-B
SCALE 1:25



SECTION C-C
SCALE 1:25

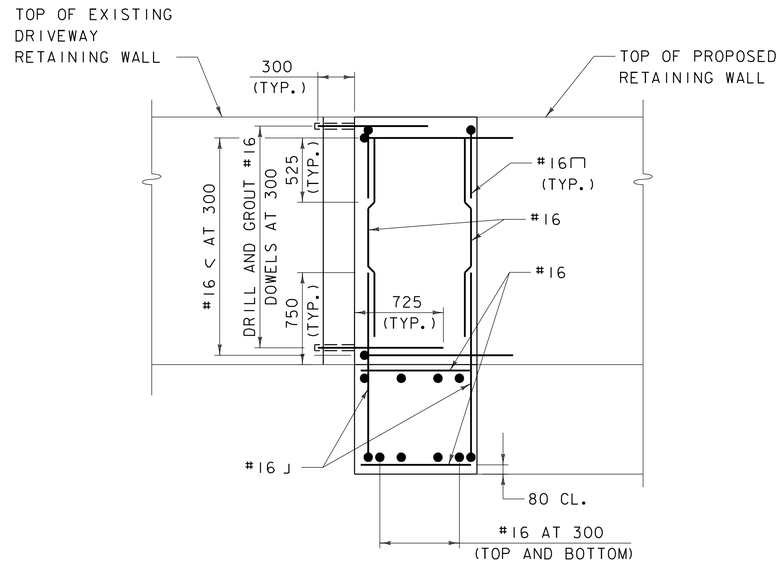


SECTION A-A
RAIL SUPPORT BLOCK SECTION
SCALE 1:25

NOTES:

EF = EACH FACE
NF = NEAR FACE
FF = FAR FACE
50 CLEAR UNLESS OTHERWISE
SPECIFIED ON THE THE PLANS.
525 BAR LAP UNLESS
OTHERWISE SPECIFIED ON THE PLANS

THE BAR SPACINGS SHOWN ARE A MAXIMUM.



RAIL SUPPORT BLOCK ELEVATION
SCALE 1:25

RETAINING WALL #2

PROJECT NAME: BRANDON
PROJECT NUMBER: NH 019-3(496)

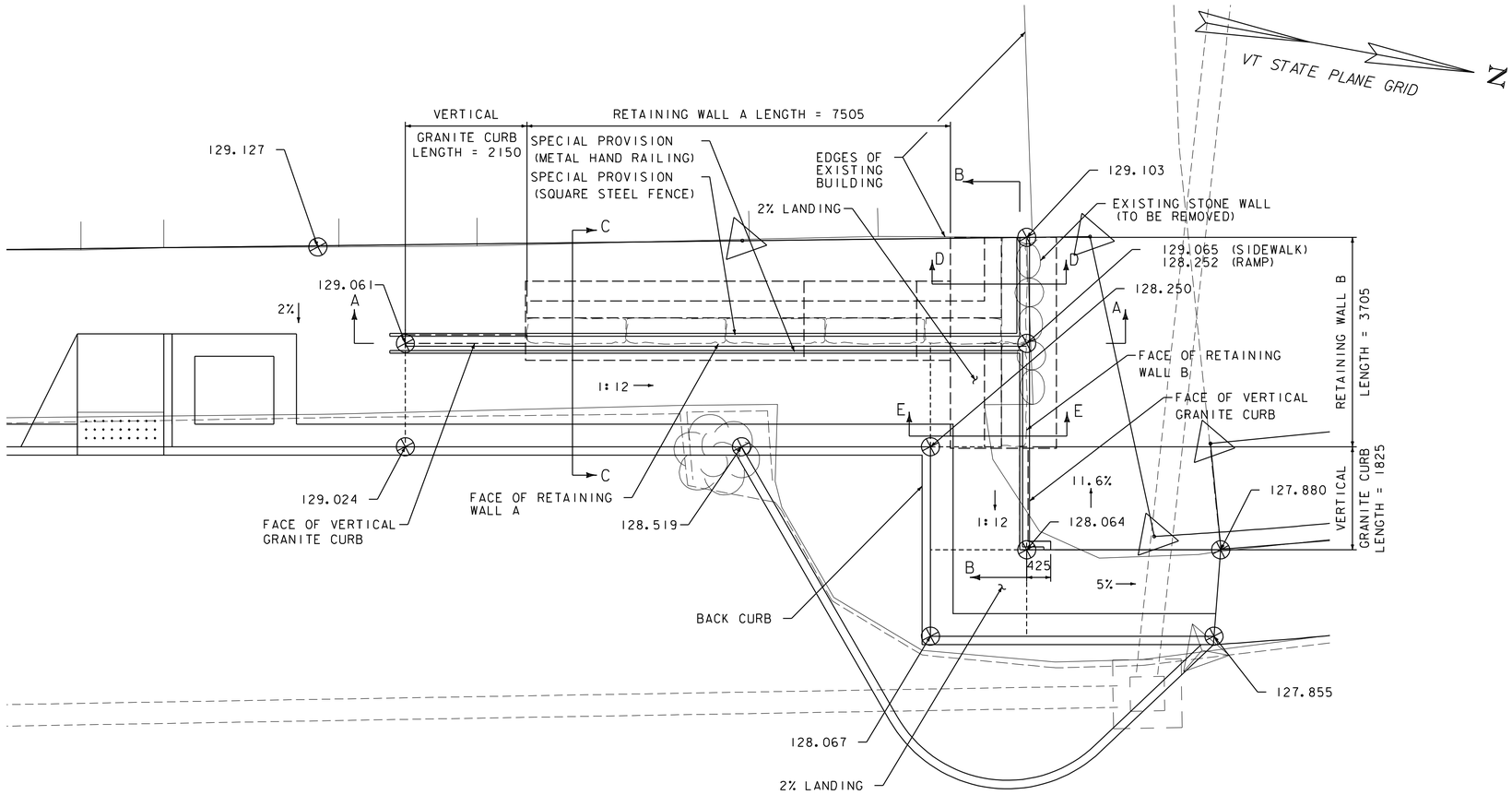
FILE NAME: zb008s6-retwall.dgn
PROJECT LEADER: C. BEAN
DESIGNED BY: N. CARON

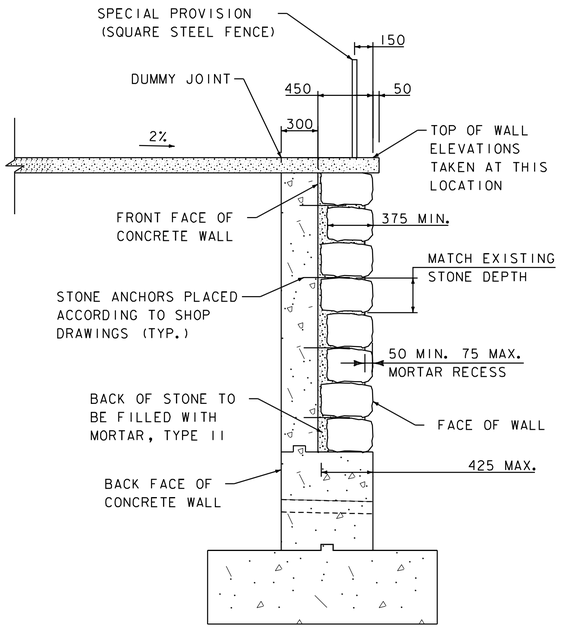
PLOT DATE: 2/23/2017
DRAWN BY: M. SMITH
CHECKED BY: S. BEAUMONT
SHEET 470 OF 601

CLD 02-0448 MODEL: 2C

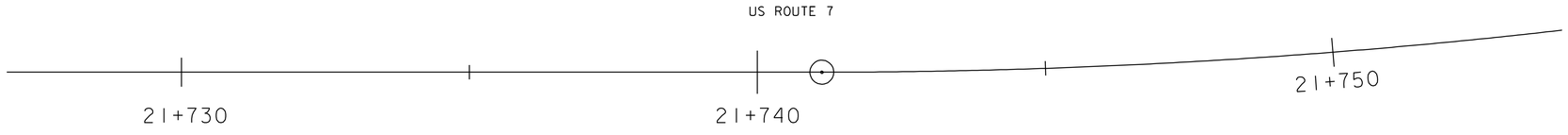
ISSUED FOR CONSTRUCTION

VAOT Metric





TYPICAL STONE MASONRY FACING DETAIL
SCALE 1:25



PLAN
SCALE 1:50

NOTE: SEE RETAINING WALL #3 SHEET 2
FOR ELEVATION A-A AND B-B, AND
SECTIONS C-C, D-D, AND E-E.

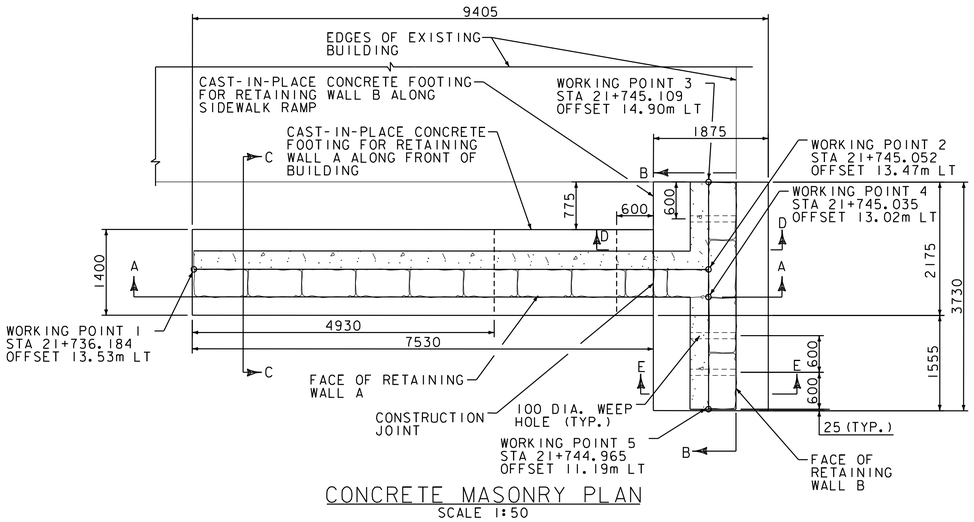
CLD 02-0448 MODEL: 3A

RETAINING WALL #3

PROJECT NAME:	BRANDON
PROJECT NUMBER:	NH 019-3(496)

FILE NAME: zb008s6-retwall.dgn	PLOT DATE: 2/23/2017
PROJECT LEADER: C. BEAN	DRAWN BY: S. BEAUMONT
DESIGNED BY: S. BEAUMONT	CHECKED BY: J. BYATT
	SHEET 471 OF 601

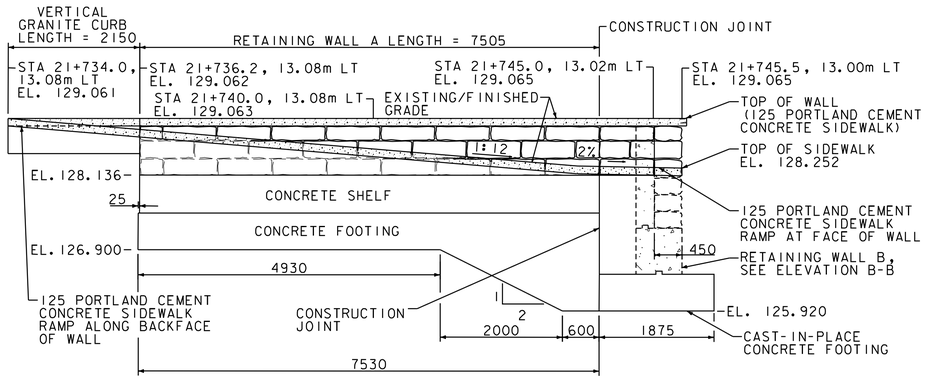
VAOT Metric



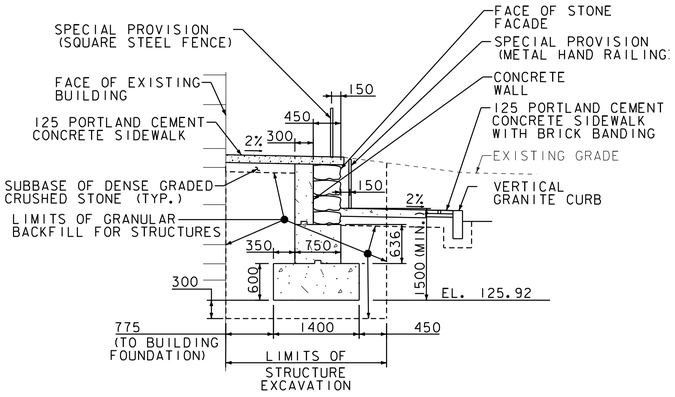
CONCRETE MASONRY PLAN
SCALE 1:50

NOTES:

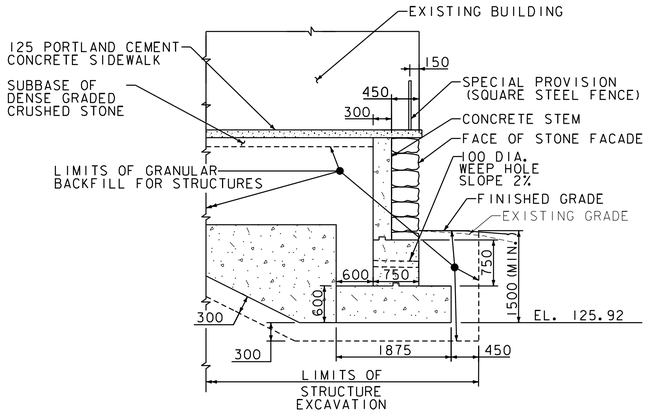
1. CARE SHALL BE TAKEN DURING DECONSTRUCTION OF THE EXISTING STONE WALL TO ENSURE THE STONES ARE NOT DAMAGED. THE EXISTING STONES SHALL BE REUSED TO CONSTRUCT THE STONE FACING OF THE PROPOSED WALLS. HOWEVER, AS THERE WILL NOT BE ENOUGH EXISTING STONES TO FACE ALL OF THE PROPOSED WALLS, NEW LOCAL STONE OF SIMILAR SIZE, SHAPE, AND COLOR SHALL BE USED TO FINISH THE STONE FACING IN ALL OTHER LOCATIONS.
2. THE EXISTING STONES SHALL BE USED TO CONSTRUCT THE FACE OF THE WALL CONSISTING OF SECTIONS D-D AND E-E FIRST. NEW STONES WILL BE USED IN ALL OTHER LOCATIONS ONCE ALL THE EXISTING STONES HAVE BEEN PLACED.
3. THE DEPTH OF THE EXISTING STONES IS UNKNOWN. A DEPTH OF 450 HAS BEEN ASSUMED IN THE DESIGN OF THE RETAINING WALL. IF THE EXISTING STONES ARE LARGER THAN 450, THE STONES SHALL BE SPLIT OR THE GEOMETRY OF THE RETAINING WALL FOOTING SHALL BE REVISED TO ACCOMMODATE A LARGER STONE. ANY REVISIONS TO THE RETAINING WALL GEOMETRY SHALL BE APPROVED BY THE ENGINEER.
4. CONSTRUCTION OF THE STONE FACADE, INCLUDING SPLITTING AND RECONSTRUCTING EXISTING STONES, NEW STONES, MORTAR, AND ANCHORS, SHALL BE PAID FOR UNDER ITEM 602.25, STONE MASONRY FACING.
5. DURING BACKFILL OPERATIONS, THE TOE OF RETAINING WALL B SHOULD BE BACKFILLED BEFORE BACKFILLING AT THE REAR OF THE WALL IS COMPLETED.
6. ACCESS TO THE BUSINESS LOCATED ALONG THE PROPOSED RETAINING WALL SHALL BE MAINTAINED AT ALL TIMES. THE CONTRACTOR SHALL COORDINATE WITH THE PROPERTY/ BUSINESS OWNER TO PROVIDE TEMPORARY ACCESS IF NECESSARY.
7. THE DEPTH OF THE BUILDING'S FOUNDATION IS UNKNOWN AND SHOULD BE VERIFIED PRIOR TO BEGINNING CONSTRUCTION. THE ENGINEER SHALL BE NOTIFIED IMMEDIATELY IF THE BOTTOM OF FOUNDATION IS HIGHER THAN THE RETAINING WALL EXCAVATION LIMITS. ADDITIONAL METHODS MAY BE REQUIRED TO ENSURE THAT THE BUILDING'S FOUNDATION IS NOT UNDERMINED DURING CONSTRUCTION OF THE WALL.
8. A DUMMY JOINT SHALL BE PLACED IN THE CONCRETE SIDEWALK AT THE BACK FACE OF THE CONCRETE WALL. THE JOINT SHALL RUN THE FULL LENGTH OF EACH OF THE CONCRETE WALLS.
9. ALL DIMENSIONS SHALL BE FIELD VERIFIED PRIOR TO BEGINNING CONSTRUCTION.
10. ALL CAST-IN-PLACE CONCRETE IN RETAINING WALLS SHALL BE ITEM 501.34, CONCRETE, HIGH PERFORMANCE, CLASS B.
11. SEE NEXT SHEET FOR REINFORCING DETAILS.
12. SEE STANDARD SD-501.00 FOR CONSTRUCTION JOINT DETAIL.



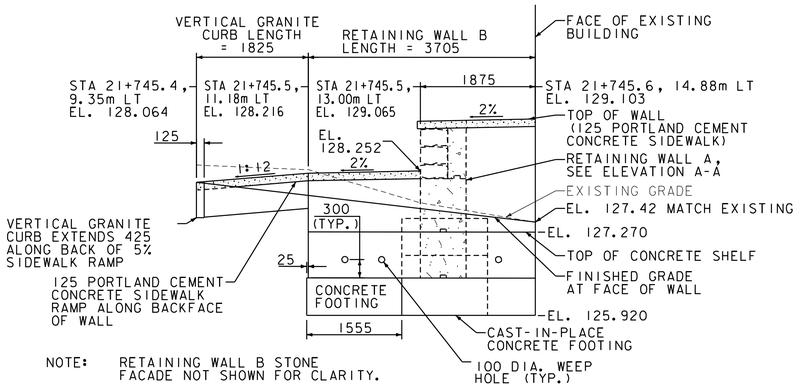
RETAINING WALL A
ELEVATION A-A
SCALE 1:50



SECTION C-C
SCALE 1:50

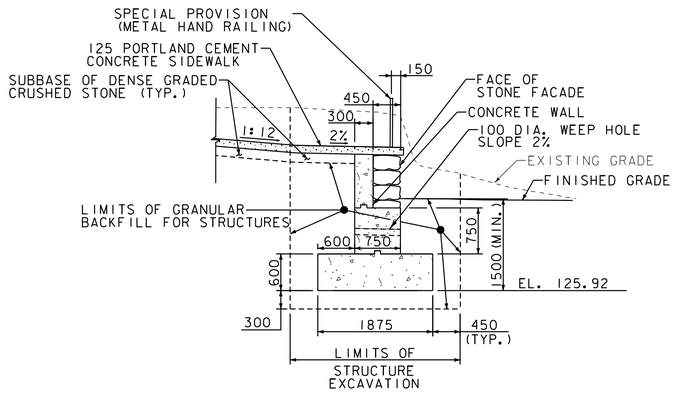


SECTION D-D
SCALE 1:50



NOTE: RETAINING WALL B STONE FACADE NOT SHOWN FOR CLARITY.

RETAINING WALL B
ELEVATION B-B
SCALE 1:50



SECTION E-E
SCALE 1:50

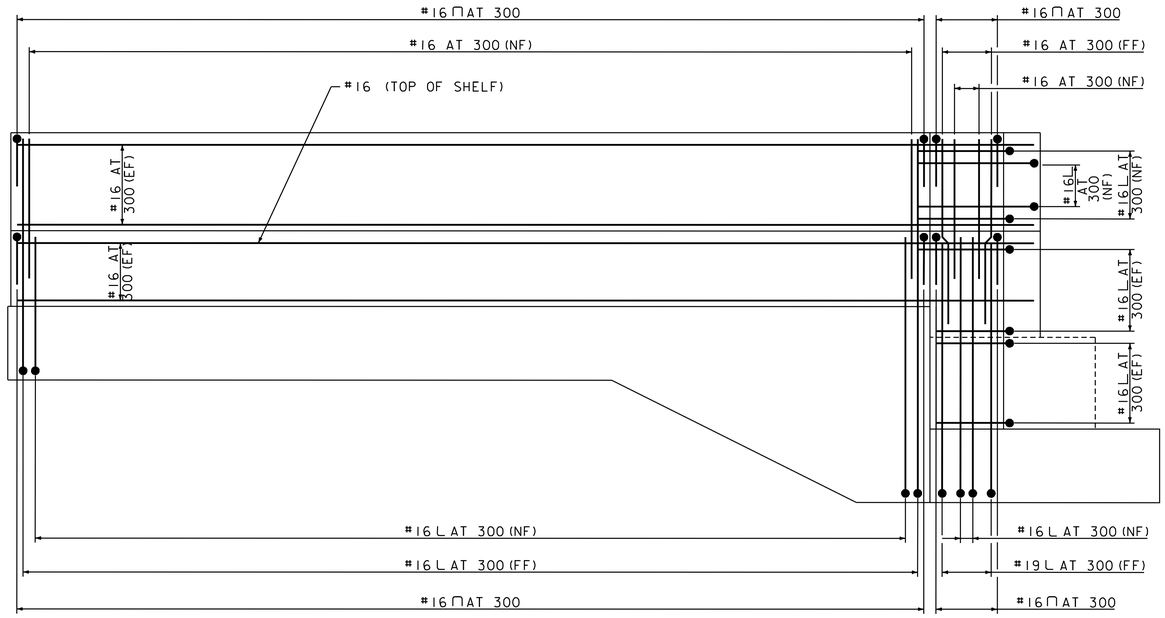
RETAINING WALL #3

PROJECT NAME:	BRANDON
PROJECT NUMBER:	NH 019-3(496)

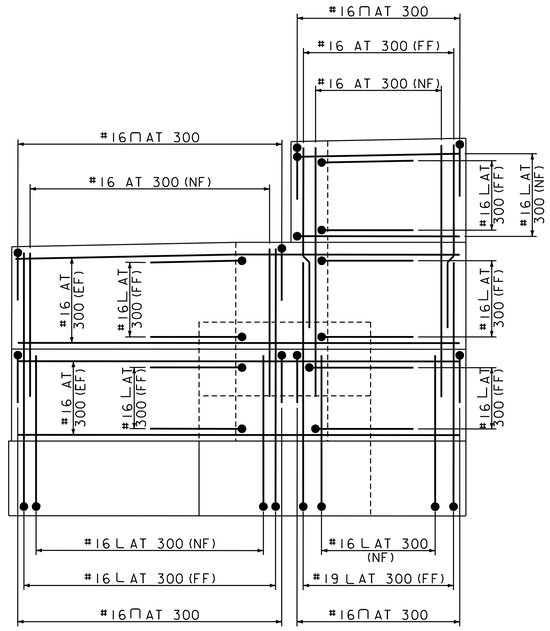
FILE NAME: zb008s6-retwall.dgn
PROJECT LEADER: C. BEAN
DESIGNED BY: S. BEAUMONT
PLOT DATE: 2/23/2017
DRAWN BY: S. BEAUMONT
CHECKED BY: J. BYATT
SHEET 472 OF 601

CLD 02-0448 MODEL: 3B

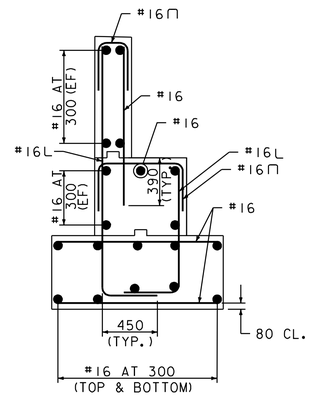
ISSUED FOR CONSTRUCTION



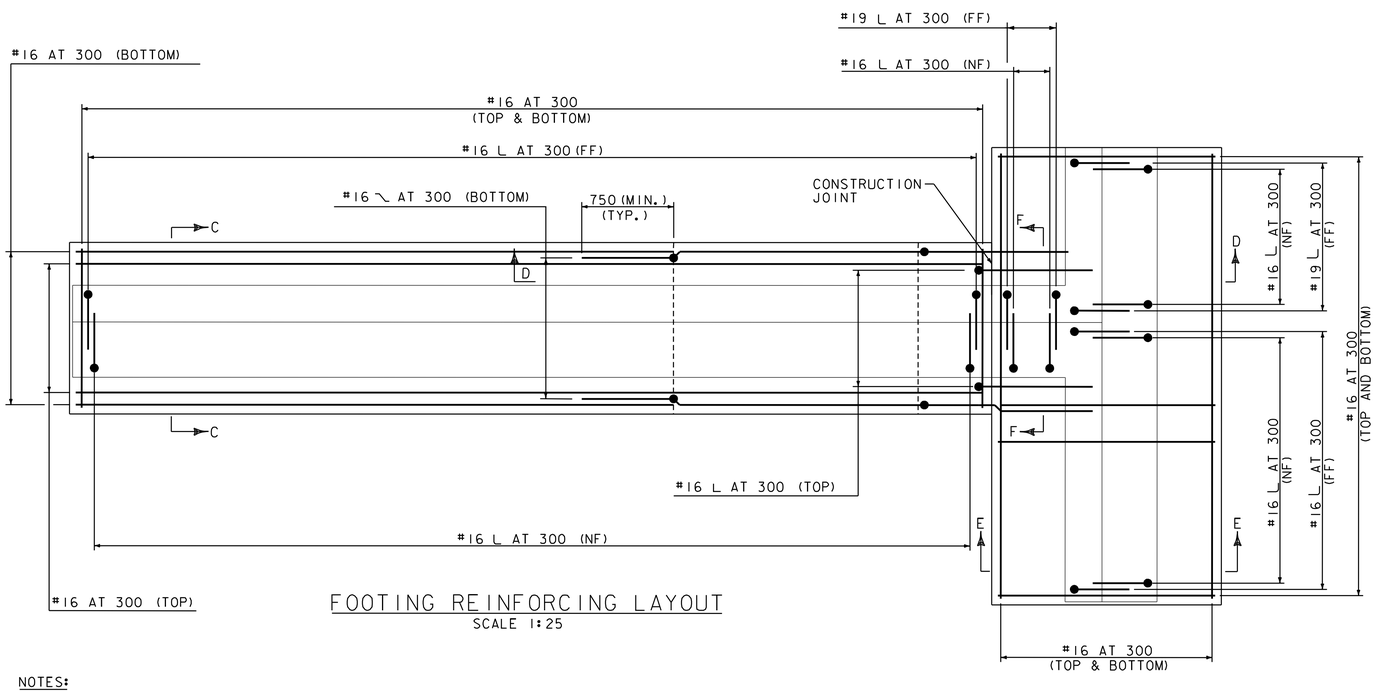
RETAINING WALL A REINFORCING ELEVATION
SCALE 1:25



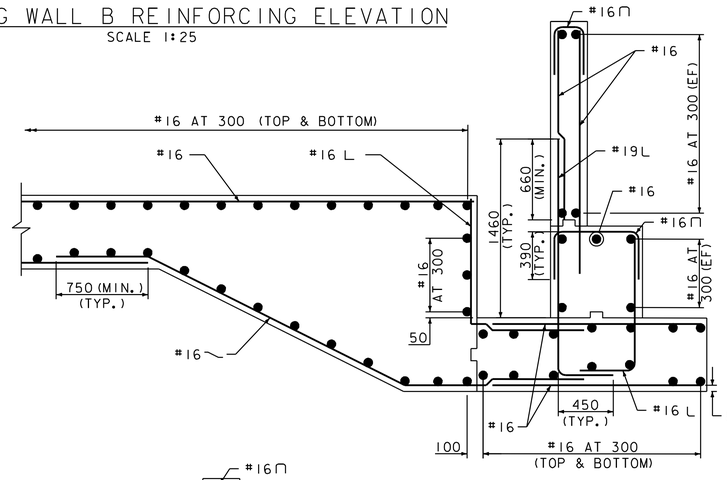
RETAINING WALL B REINFORCING ELEVATION
SCALE 1:25



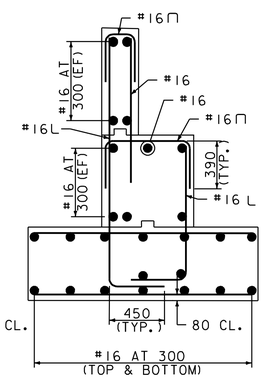
SECTION C-C
SCALE 1:25



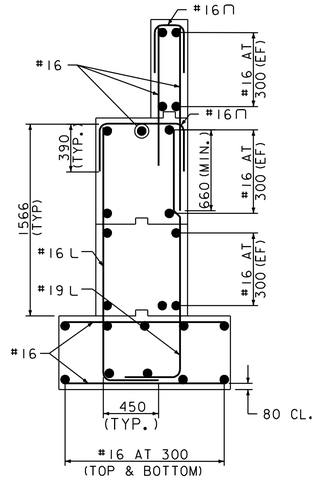
FOOTING REINFORCING LAYOUT
SCALE 1:25



SECTION D-D
SCALE 1:25



SECTION E-E
SCALE 1:25



SECTION F-F
SCALE 1:25

NOTES:

1. ALL REINFORCING STEEL IN RETAINING WALLS SHALL BE ITEM 507.11, REINFORCING STEEL, LEVEL 1.

2. EF = EACH FACE
   NF = NEAR FACE
   FF = FAR FACE
   50 CLEAR UNLESS OTHERWISE SPECIFIED ON THE PLANS.
   660 BAR LAP UNLESS OTHERWISE SPECIFIED ON PLANS

   THE BAR SPACINGS SHOWN ARE A MAXIMUM.

3. A REINFORCING STEEL SCHEDULE AND SHOP DRAWINGS MEETING THE REQUIREMENTS OF SUBSECTION 105.03 SHALL BE SUBMITTED. PAYMENT FOR THIS WORK WILL BE CONSIDERED INCIDENTAL TO ITEM 507.11, REINFORCING STEEL, LEVEL 1.

RETAINING WALL #3

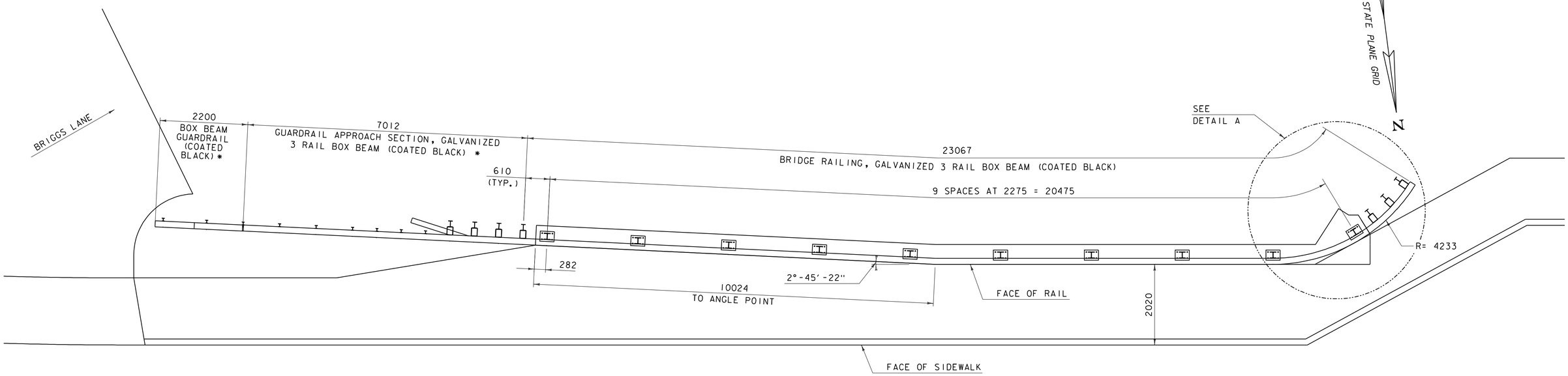
PROJECT NAME: BRANDON
PROJECT NUMBER: NH 019-3(496)

FILE NAME: zb008s6-retwall.dgn
PROJECT LEADER: C. BEAN
DESIGNED BY: S. BEAUMONT
PLOT DATE: 2/23/2017
DRAWN BY: S. BEAUMONT
CHECKED BY: J. BYATT
SHEET 473 OF 601

CLD 02-0448 MODEL: 3C

ISSUED FOR CONSTRUCTION

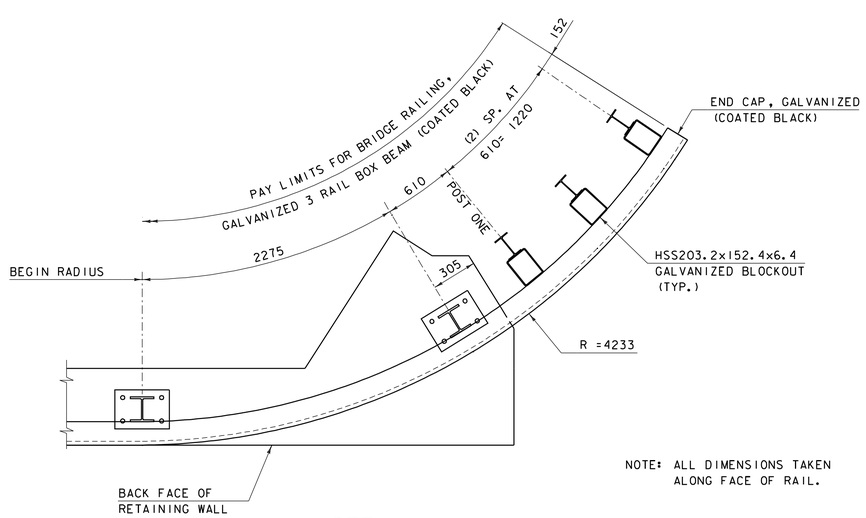
VAOT Metric



* SEE 3 RAIL BOX BEAM APPROACH RAIL DETAILS ON NEXT SHEET

RAIL LAYOUT

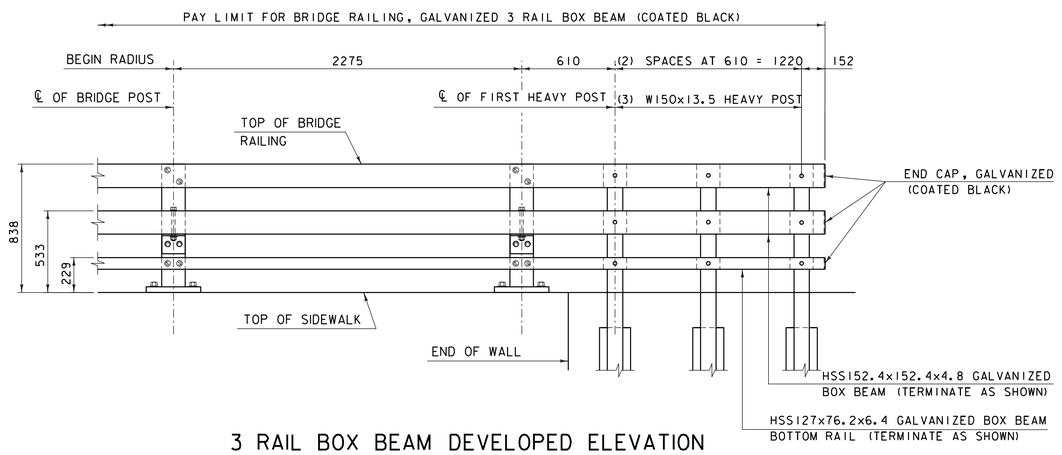
SCALE 1:50



DETAIL A

SCALE 1:20

NOTE: ALL DIMENSIONS TAKEN ALONG FACE OF RAIL.



3 RAIL BOX BEAM DEVELOPED ELEVATION

SCALE 1:20

NOTE: SEE STANDARD S-364A

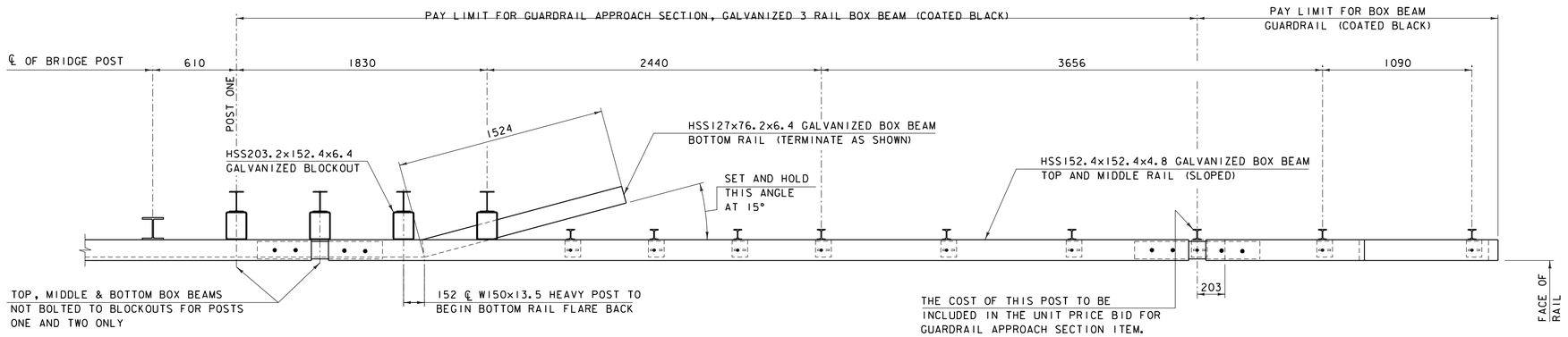
RAIL LAYOUT DETAILS (RETAINING WALL #2)

PROJECT NAME:	BRANDON
PROJECT NUMBER:	NH 019-3(496)

FILE NAME: zb008s6-rail.dgn	PLOT DATE: 2/23/2017
PROJECT LEADER: D. MUNRO	DRAWN BY: M. SMITH
DESIGNED BY: N. CARON	CHECKED BY: J. BYATT
	SHEET 474 OF 601

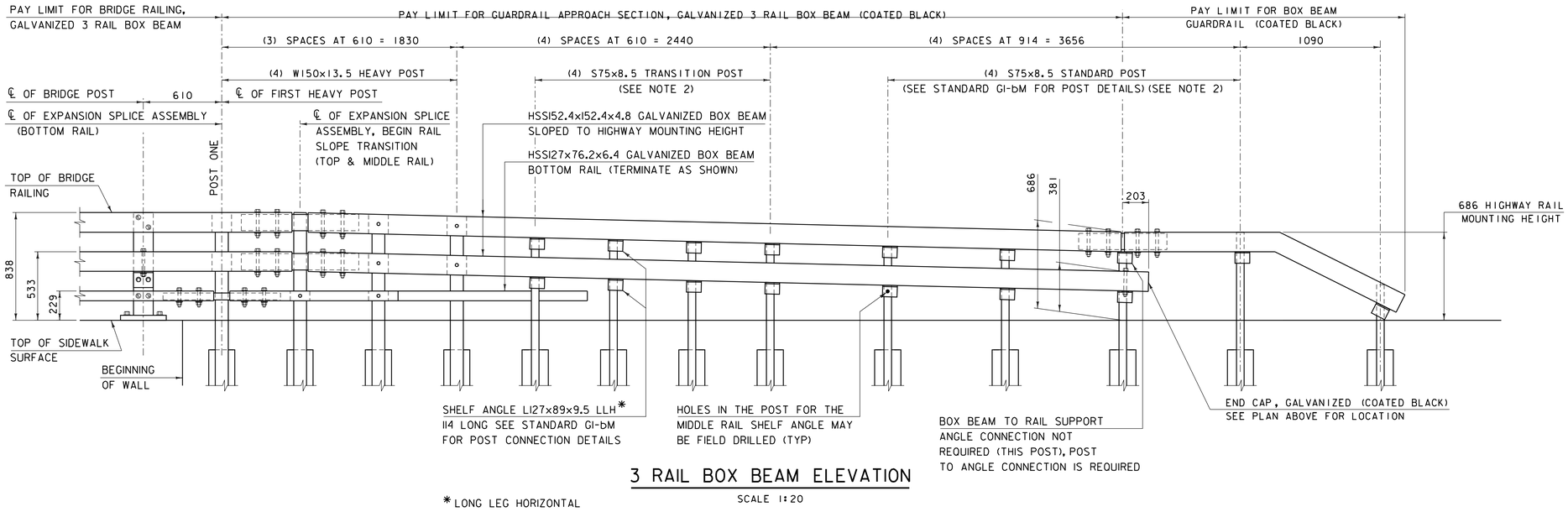
CLD 02-0448 MODEL:1

ISSUED FOR CONSTRUCTION



3 RAIL BOX BEAM PLAN VIEW

SCALE 1:20



3 RAIL BOX BEAM ELEVATION

SCALE 1:20

*LONG LEG HORIZONTAL

NOTES:

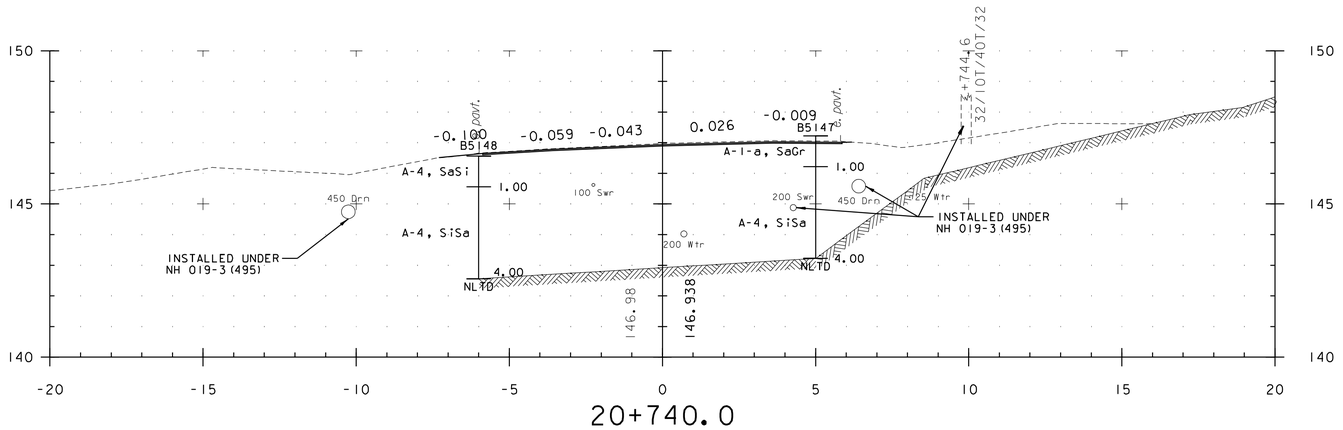
1. BOX BEAM TUBE AND STEEL POST MATERIALS, DIMENSION SIZES AND NOTES SHALL BE THE SAME AS THOSE OF THE BRIDGE RAIL, UNLESS OTHERWISE NOTED.
2. S75x8.5 POSTS SHALL MEET THE REQUIREMENTS OF 728.01(c).

RAIL LAYOUT DETAILS (RETAINING WALL #2)

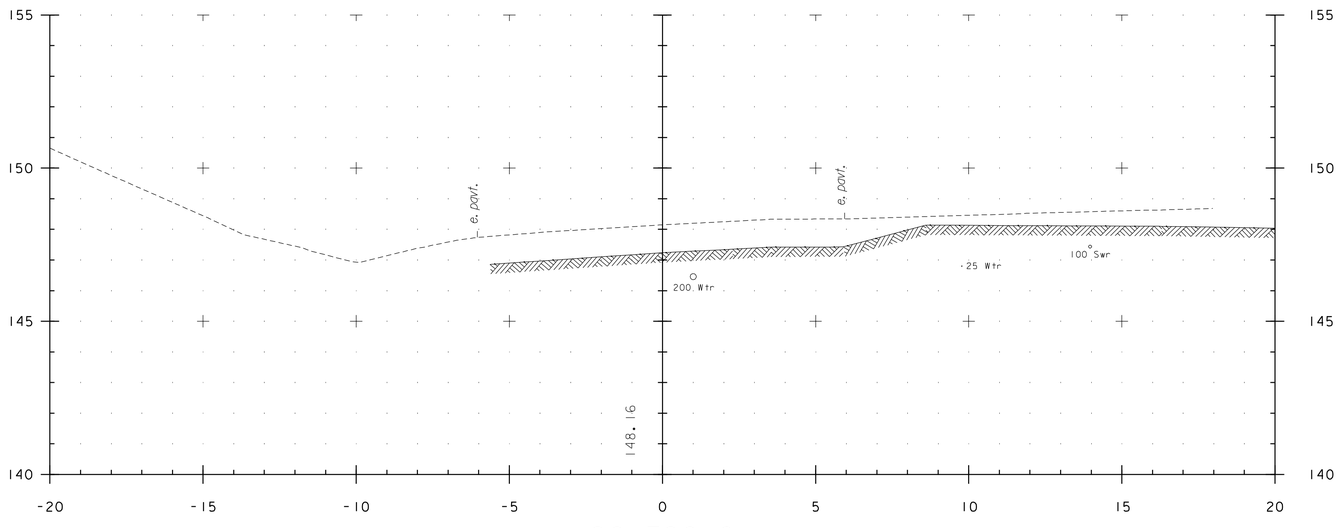
PROJECT NAME: BRANDON
PROJECT NUMBER: NH 019-3(496)

FILE NAME: zb008s6-rail.dgn
PROJECT LEADER: D. MUNRO
DESIGNED BY: N. CARON
PLOT DATE: 2/23/2017
DRAWN BY: M. SMITH
CHECKED BY: J. BYATT
SHEET 475 OF

CLD 02-0448 MODEL: 2



20+740.0
BEGIN APPROACH (20+735.617)



20+720.0

NOTES:

1. THE BEDROCK PROFILES SHOWN ON THE CROSS-SECTIONS ARE OBTAINED FROM INTERPOLATIONS AND EXTRAPOLATIONS OF BEDROCK ELEVATIONS OBSERVED AT THE TEST BOREHOLE LOCATIONS, SEISMIC REFRACTION SURVEY LINES AND THE SURVEYED ELEVATIONS OF BEDROCK OUTCROPS, AND THEREFORE, MAY NOT REPRESENT THE ACTUAL BEDROCK ELEVATIONS. INFORMATION ON ACTUAL SUBSURFACE CONDITIONS EXISTS ONLY AT THE ACTUAL LOCATION OF TEST BOREHOLES AND SEISMIC LINES. SUBSURFACE CONDITIONS AND GROUNDWATER LEVELS AT OTHER LOCATIONS MAY DIFFER FROM CONDITIONS FOUND AT THESE LOCATIONS. THE BOREHOLE LOCATION AND ABBREVIATED SUBSURFACE INFORMATION ARE SHOWN ON THE CROSS-SECTIONS. DETAILED SUBSURFACE DESCRIPTIONS ARE INCLUDED IN THE BOREHOLE LOGS. CONTRACTOR SHALL MAKE HIS OWN INTERPRETATION OF BEDROCK PROFILES BASED ON THIS INFORMATION AND OTHER INFORMATION COLLECTED SEPARATELY.

2. DRIVE CROSS SECTIONS FOR DRIVEWAYS THAT ARE ASKEW TO THE ROADWAY CENTERLINE WERE CUT PERPENDICULAR TO THE ROADWAY CENTERLINE TO A POINT AT THE BACK OF PROPOSED SIDEWALK AND THEN ALONG THE CENTERLINE OF THE DRIVEWAY.

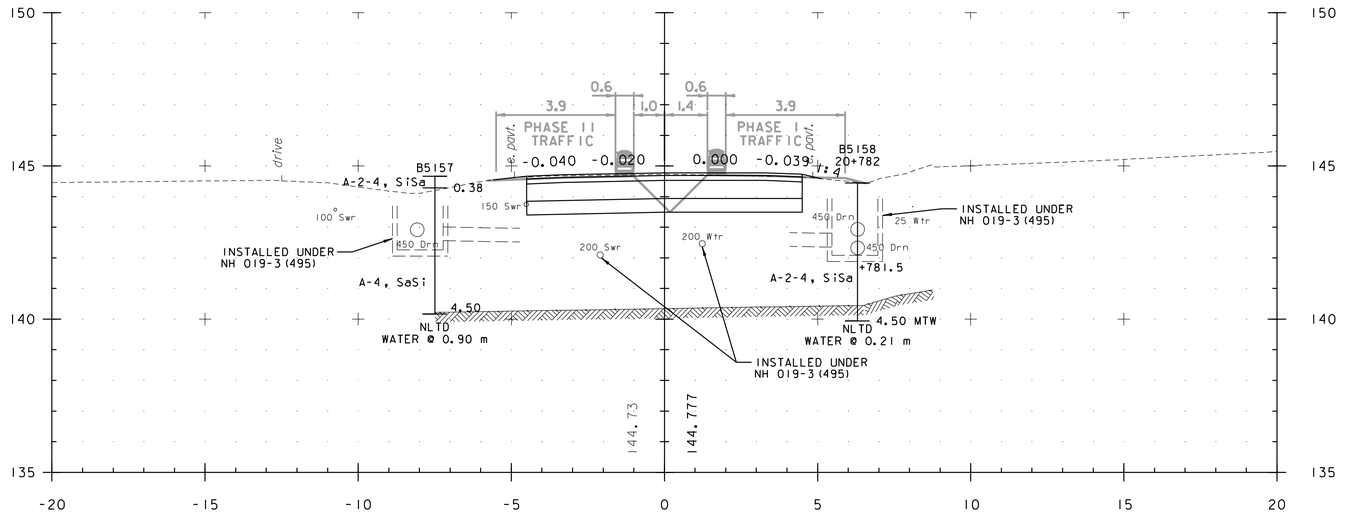
0 2 4 6 8 10
SCALE IN METERS

PROJECT NAME: BRANDON
PROJECT NUMBER: NH 019-3(496)

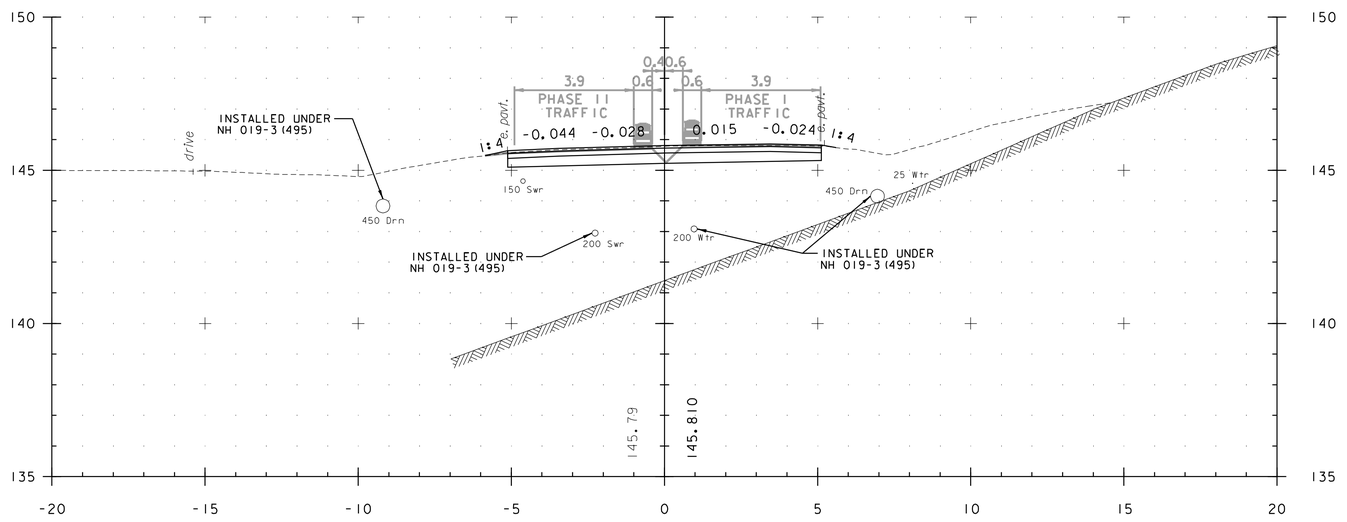
FILE NAME: zb008s6-xs.dgn
PROJECT LEADER: C. BEAN
DESIGNED BY: D. MUNRO
PLOT DATE: 2/23/2017
DRAWN BY: N. LEMAY
CHECKED BY: D. MUNRO
SHEET 476 OF 601

CLD 02-0448 MODEL: 1

ISSUED FOR CONSTRUCTION



20+780.0
END APPROACH / BEGIN PROJECT (20+778)



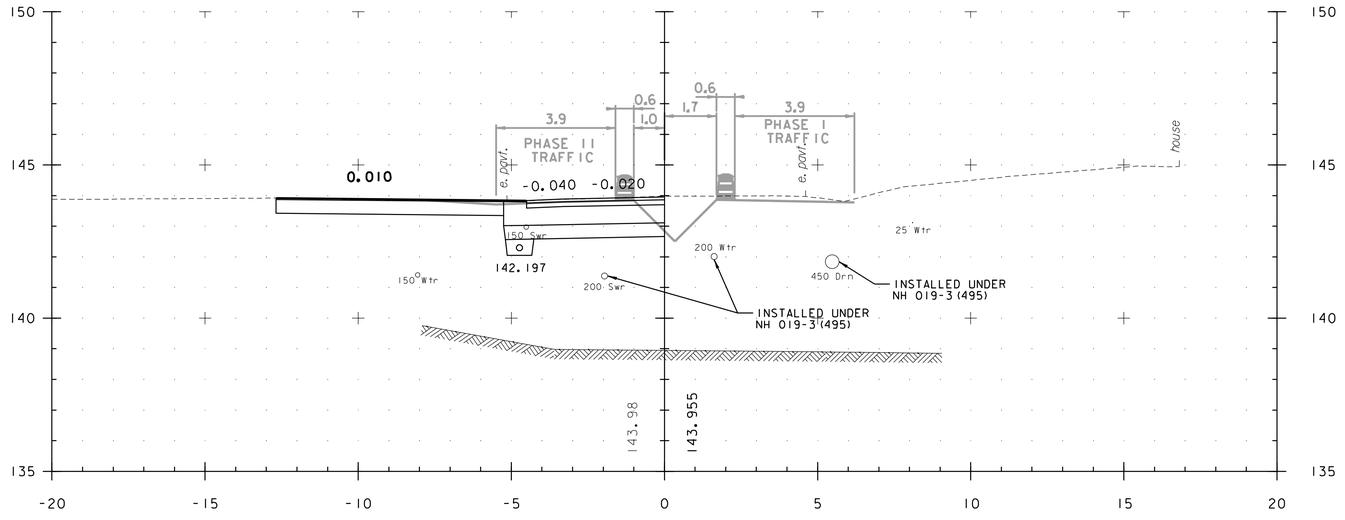
20+760.0

0 2 4 6 8 10
SCALE IN METERS

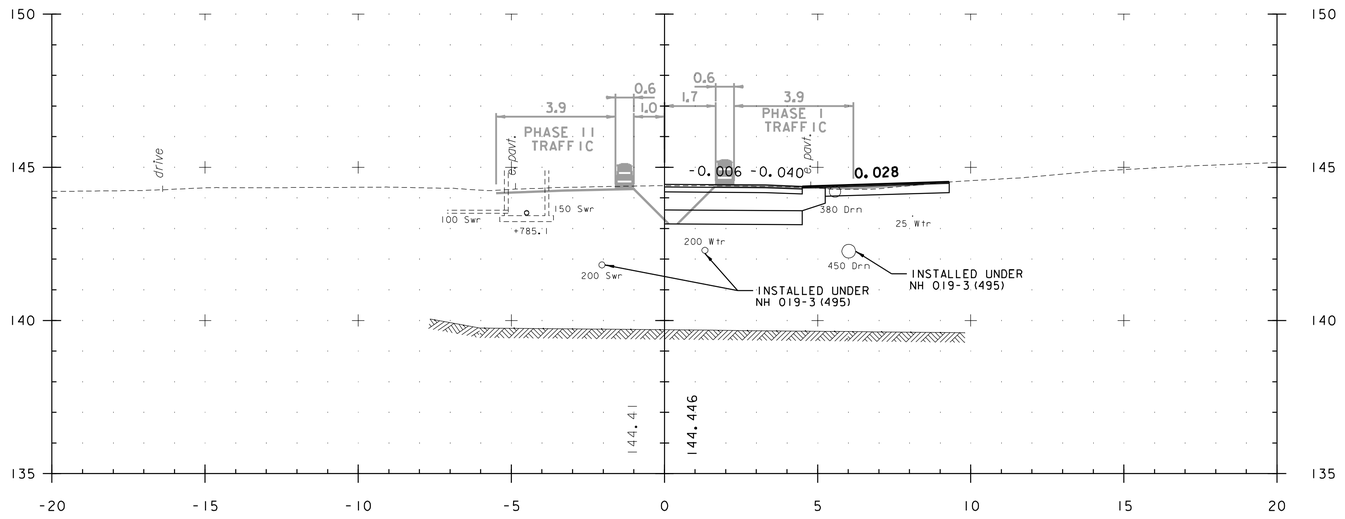
PROJECT NAME: BRANDON
PROJECT NUMBER: NH 019-3(496)

FILE NAME: zb008s6-xs.dgn
PROJECT LEADER: C. BEAN
DESIGNED BY: D. MUNRO
PLOT DATE: 2/23/2017
DRAWN BY: N. LEMAY
CHECKED BY: D. MUNRO
SHEET 477 OF 601

CLD 02-0448 MODEL: 2



20+796.7
DRIVE LT



20+786.6
DRIVE RT

0 2 4 6 8 10
SCALE IN METERS

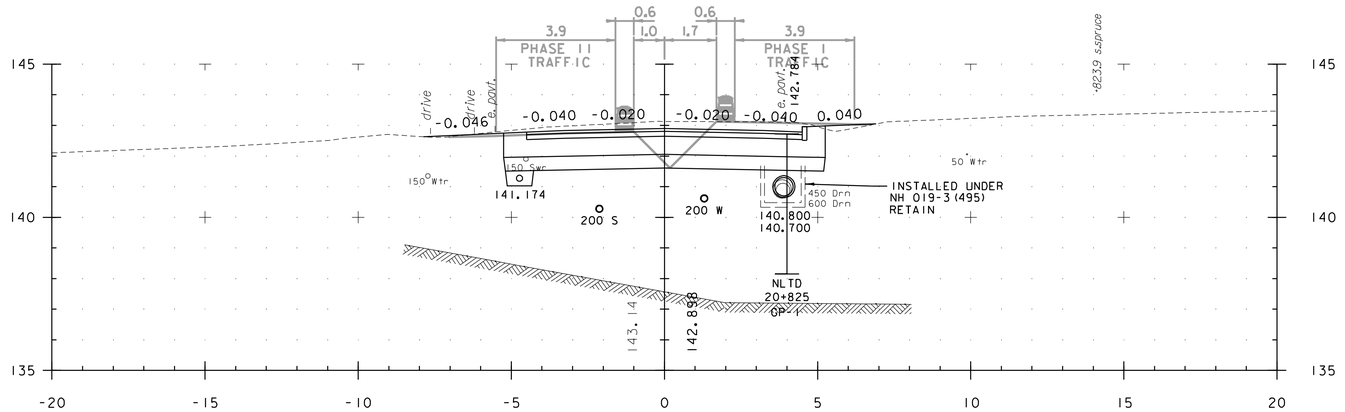
PROJECT NAME: BRANDON
PROJECT NUMBER: NH 019-3(496)

FILE NAME: zb008s6-xs.dgn
PROJECT LEADER: C. BEAN
DESIGNED BY: D. MUNRO

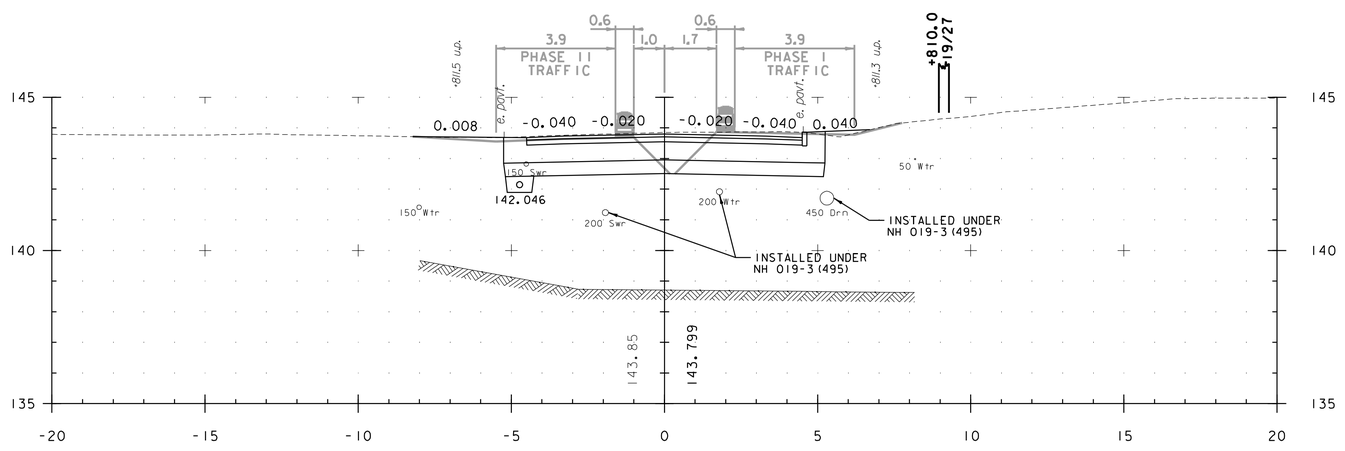
PLOT DATE: 2/23/2017
DRAWN BY: N. LEMAY
CHECKED BY: D. MUNRO
SHEET 478 OF 601

CLD 02-0448 MODEL: 3

ISSUED FOR CONSTRUCTION



20+820.0



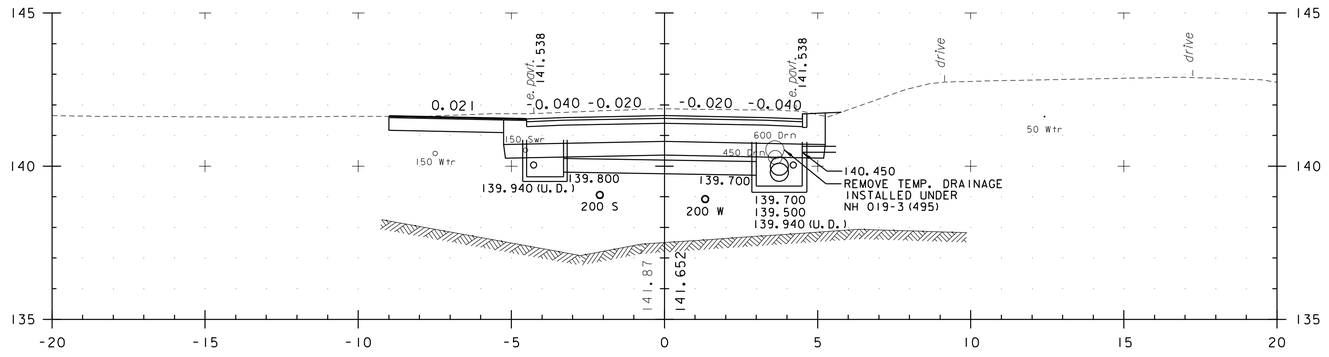
20+800.0

0 2 4 6 8 10
SCALE IN METERS

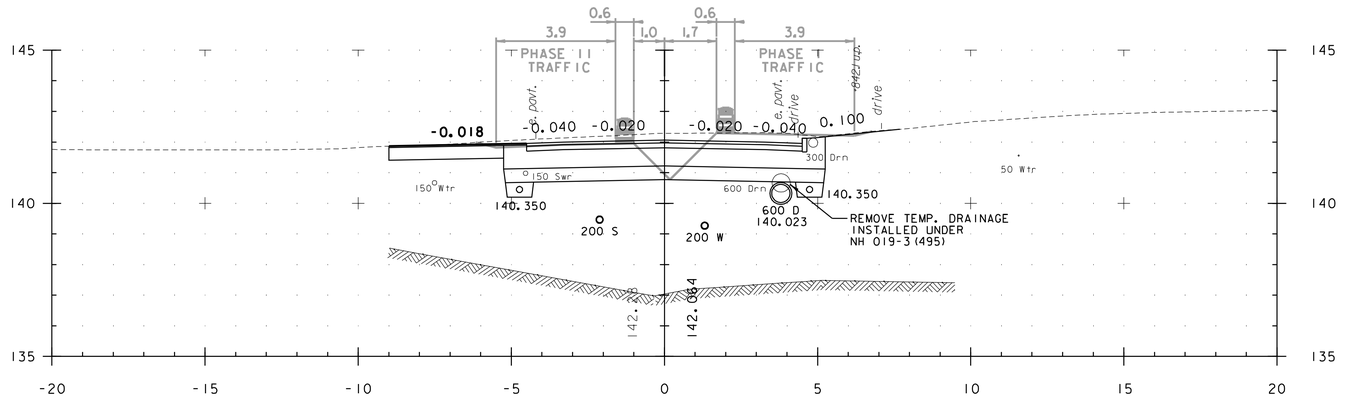
PROJECT NAME:	BRANDON
PROJECT NUMBER:	NH 019-3(496)
FILE NAME: zb008s6-xs.dgn	PLOT DATE: 2/23/2017
PROJECT LEADER: C. BEAN	DRAWN BY: N. LEMAY
DESIGNED BY: D. MUNRO	CHECKED BY: D. MUNRO
	SHEET 479 OF 601

CLD 02-0448 MODEL: 4

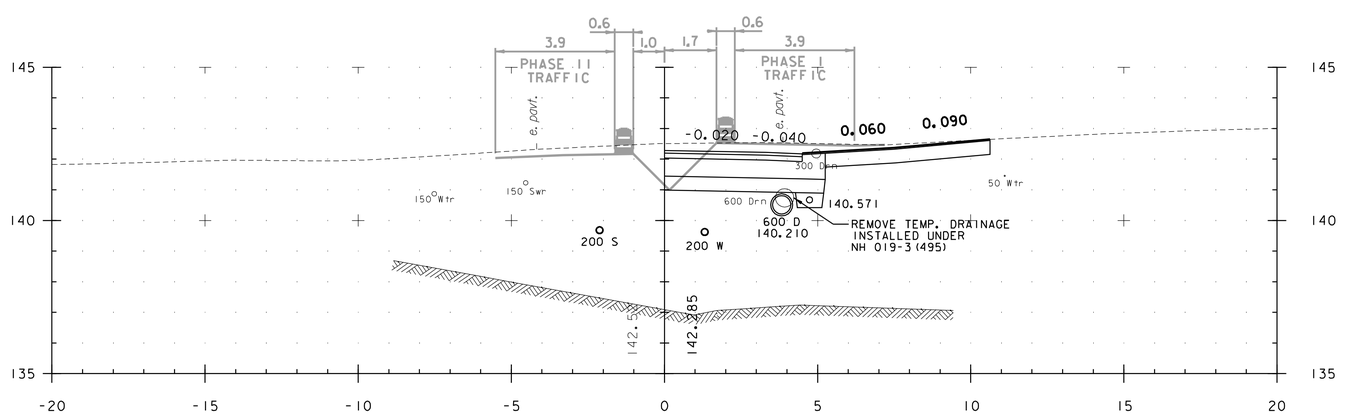
ISSUED FOR CONSTRUCTION



20+850.0



20+840.0
DRIVE LT



20+834.6
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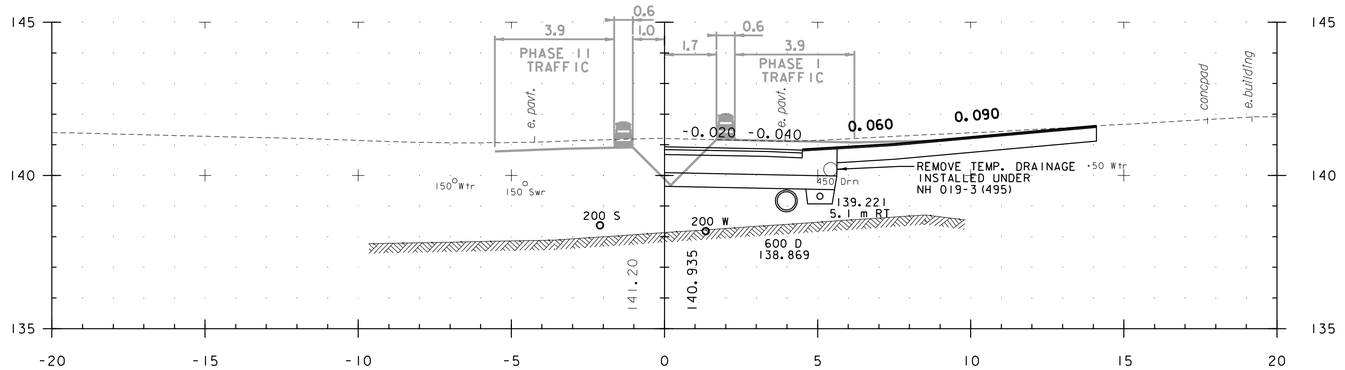
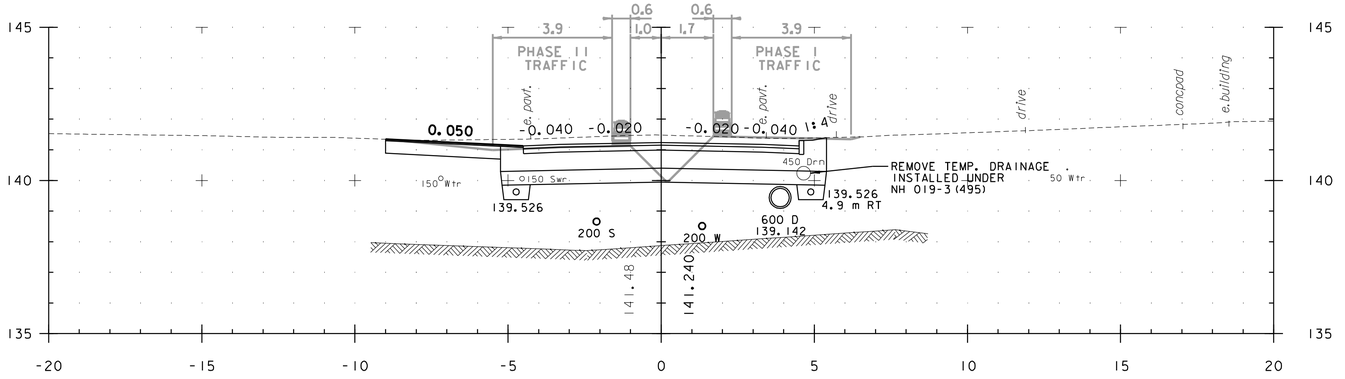
0 2 4 6 8 10
SCALE IN METERS

PROJECT NAME:	BRANDON
PROJECT NUMBER:	NH 019-3(496)
FILE NAME: zb008s6-xs.dgn	PLOT DATE: 2/23/2017
PROJECT LEADER: C. BEAN	DRAWN BY: N. LEMAY
DESIGNED BY: D. MUNRO	CHECKED BY: D. MUNRO
	SHEET 480 OF 601

CLD 02-0448 MODEL: 5



20+867.0
DRIVE RT

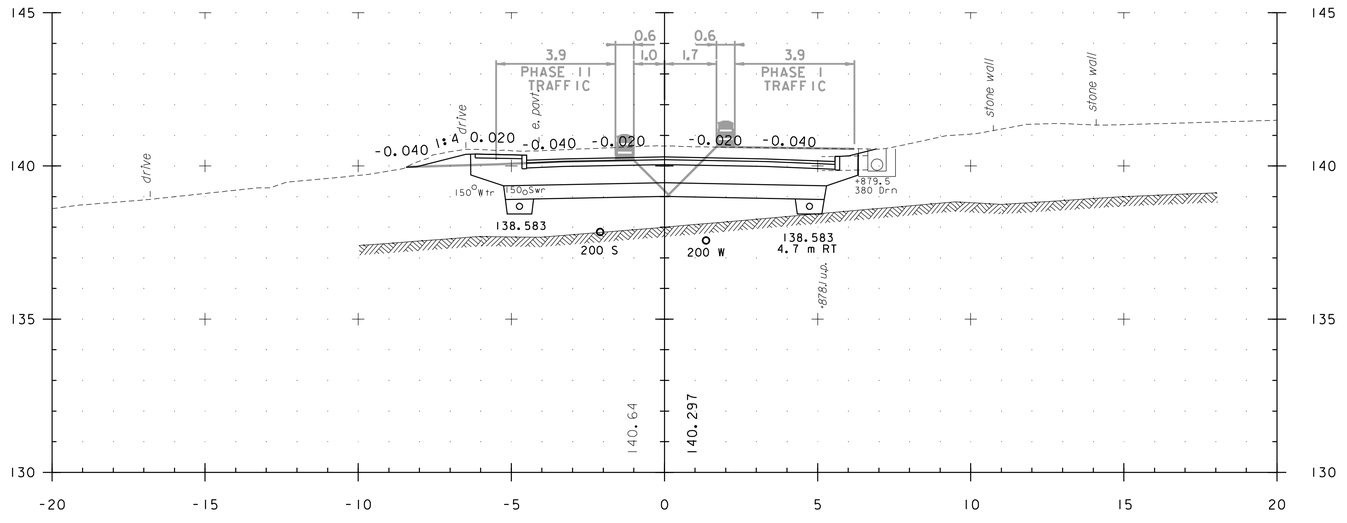


20+860.0
DRIVE LT

0 2 4 6 8 10
SCALE IN METERS

PROJECT NAME:	BRANDON
PROJECT NUMBER:	NH 019-3(496)
FILE NAME: zb008s6-xs.dgn	PLOT DATE: 2/23/2017
PROJECT LEADER: C. BEAN	DRAWN BY: N. LEMAY
DESIGNED BY: D. MUNRO	CHECKED BY: D. MUNRO
	SHEET 481 OF 601

CLD 02-0448 MODEL: 6



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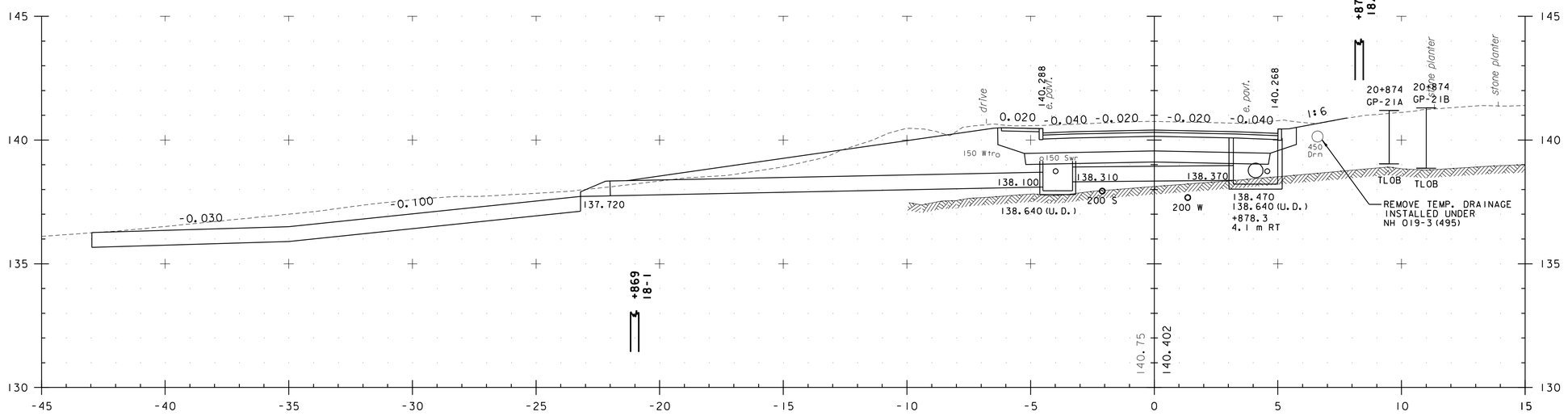


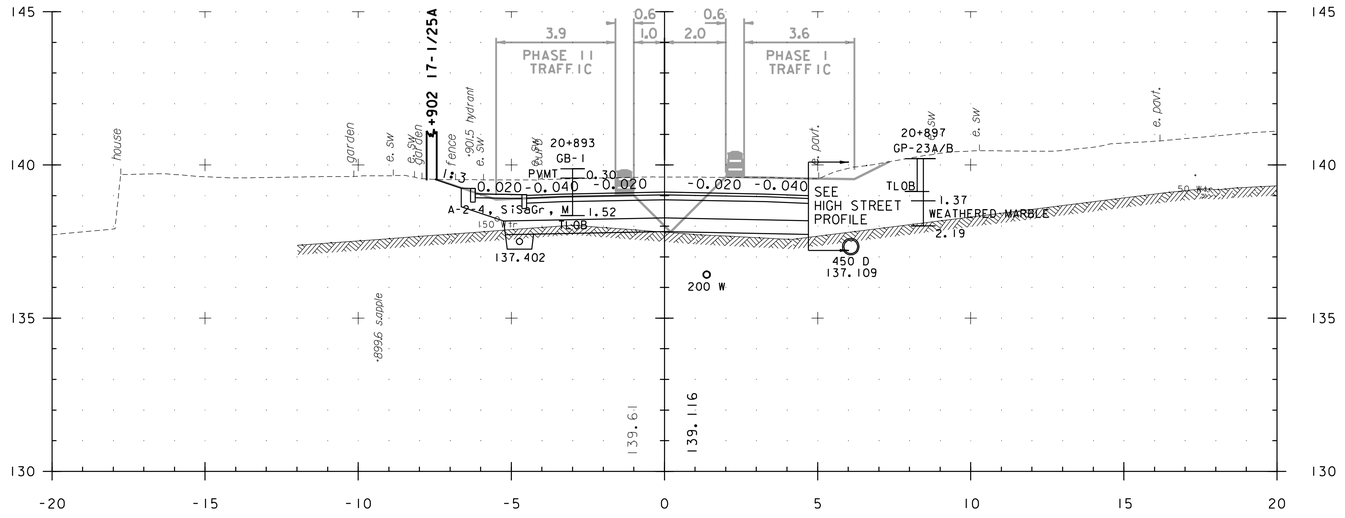
20+878.0

0 2 4 6 8 10
SCALE IN METERS

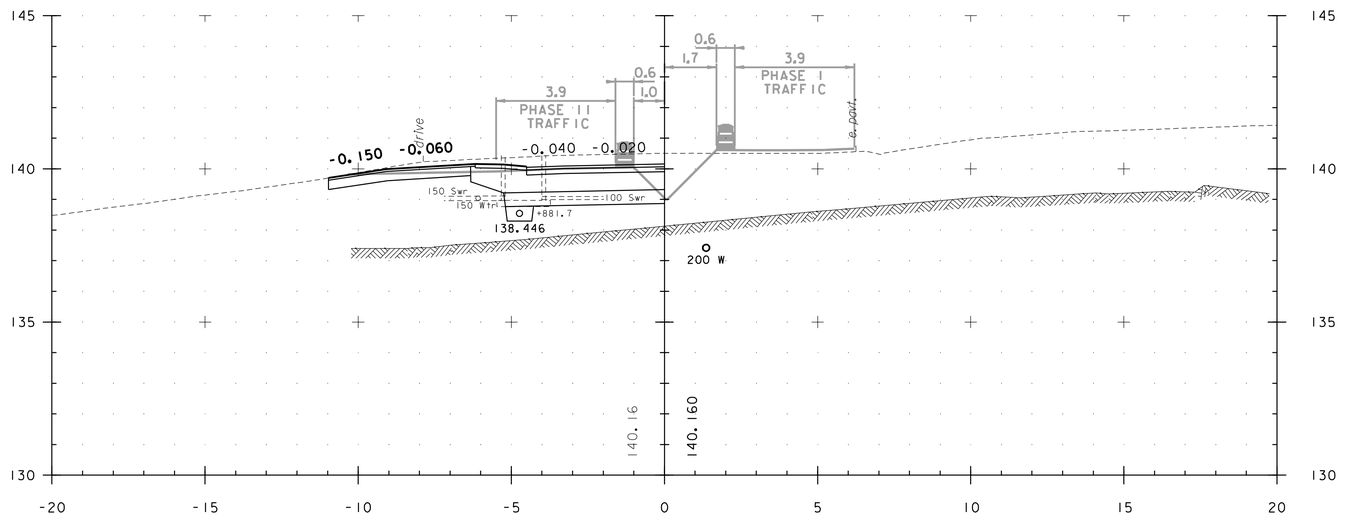
PROJECT NAME:	BRANDON
PROJECT NUMBER:	NH 019-3(496)
FILE NAME: zb008s6-xs.dgn	PLOT DATE: 2/23/2017
PROJECT LEADER: C. BEAN	DRAWN BY: N. LEMAY
DESIGNED BY: D. MUNRO	CHECKED BY: D. MUNRO
	SHEET 482 OF 601

CLD 02-0448 MODEL: 7

ISSUED FOR CONSTRUCTION



20+900.0

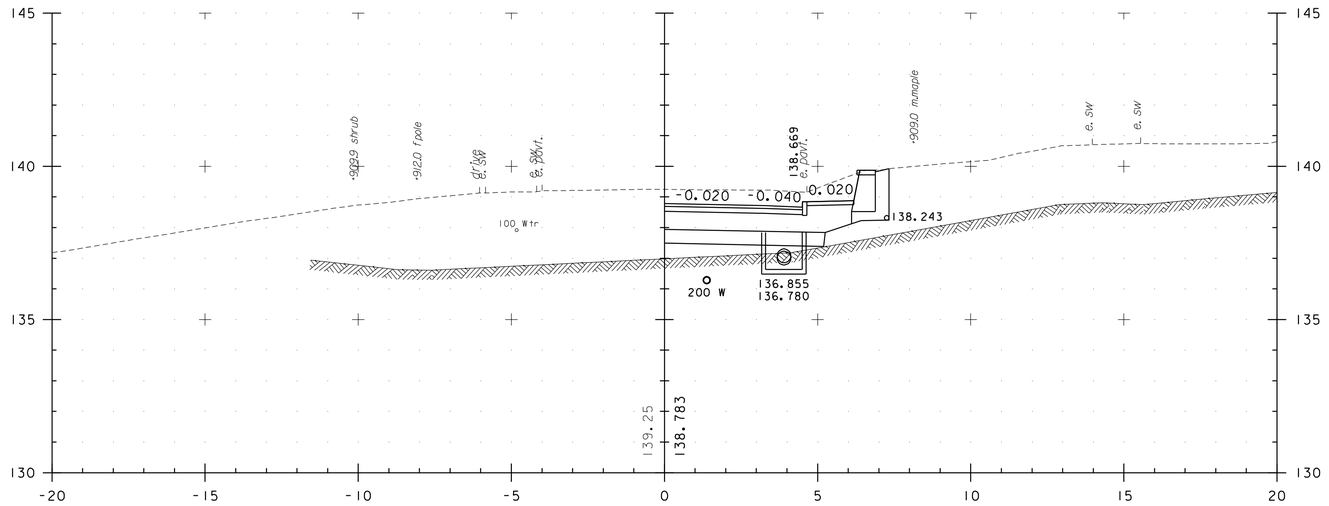


20+882.5
DRIVE LT

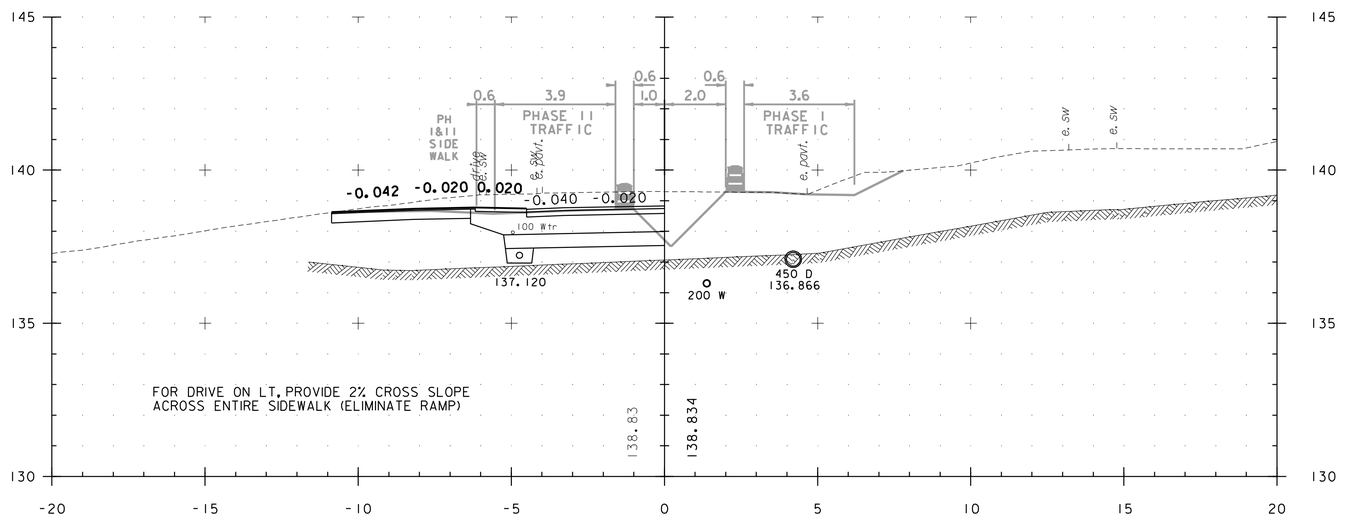
0 2 4 6 8 10
SCALE IN METERS

PROJECT NAME:	BRANDON
PROJECT NUMBER:	NH 019-3(496)
FILE NAME: zb008s6-xs.dgn	PLOT DATE: 2/23/2017
PROJECT LEADER: C. BEAN	DRAWN BY: N. LEMAY
DESIGNED BY: D. MUNRO	CHECKED BY: D. MUNRO
	SHEET 483 OF 601

CLD 02-0448 MODEL: 8



20+905.0

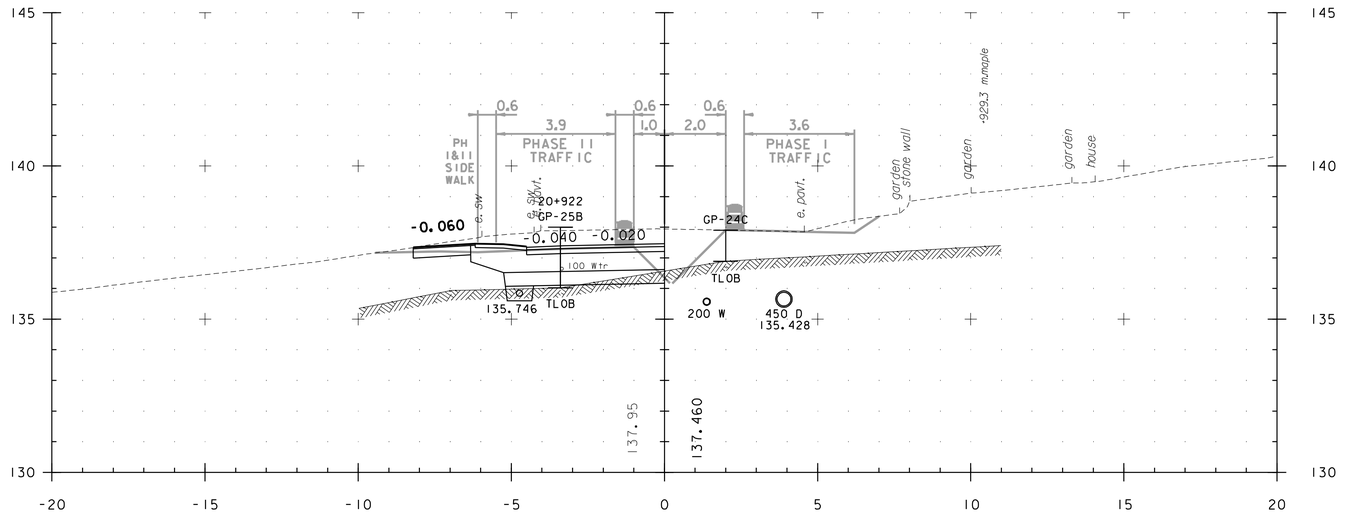


20+904.3
DRIVE LT

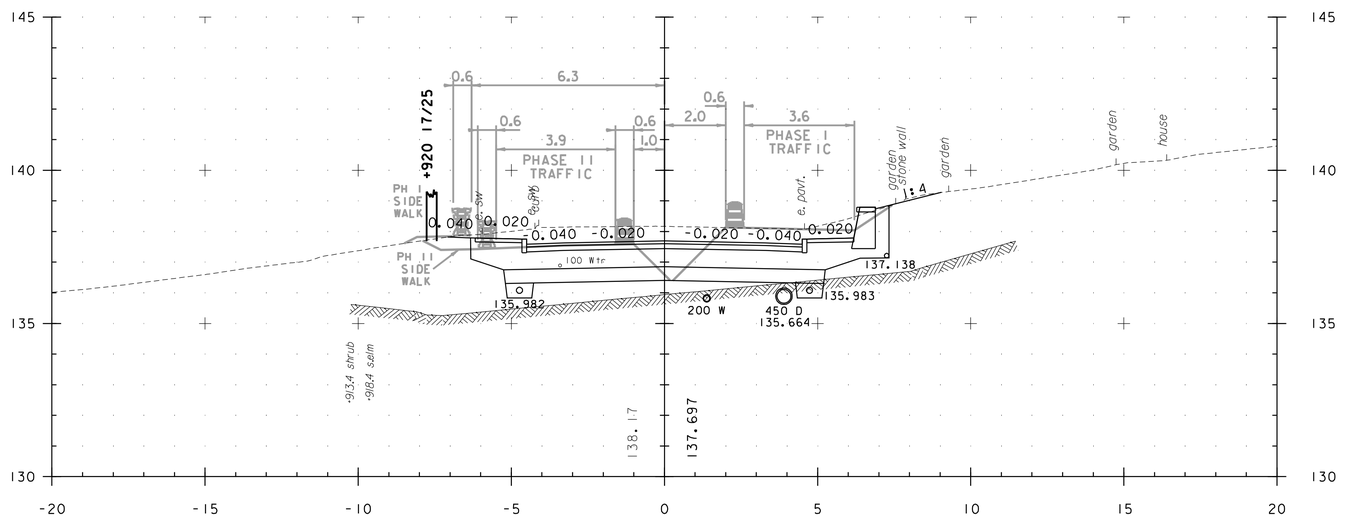
0 2 4 6 8 10
SCALE IN METERS

PROJECT NAME:	BRANDON
PROJECT NUMBER:	NH 019-3(496)
FILE NAME: zb008s6-xs.dgn	PLOT DATE: 2/23/2017
PROJECT LEADER: C. BEAN	DRAWN BY: N. LEMAY
DESIGNED BY: D. MUNRO	CHECKED BY: D. MUNRO
	SHEET 484 OF 601

CLD 02-0448 MODEL: 9



20+923.0
DRIVE LT



20+920.0

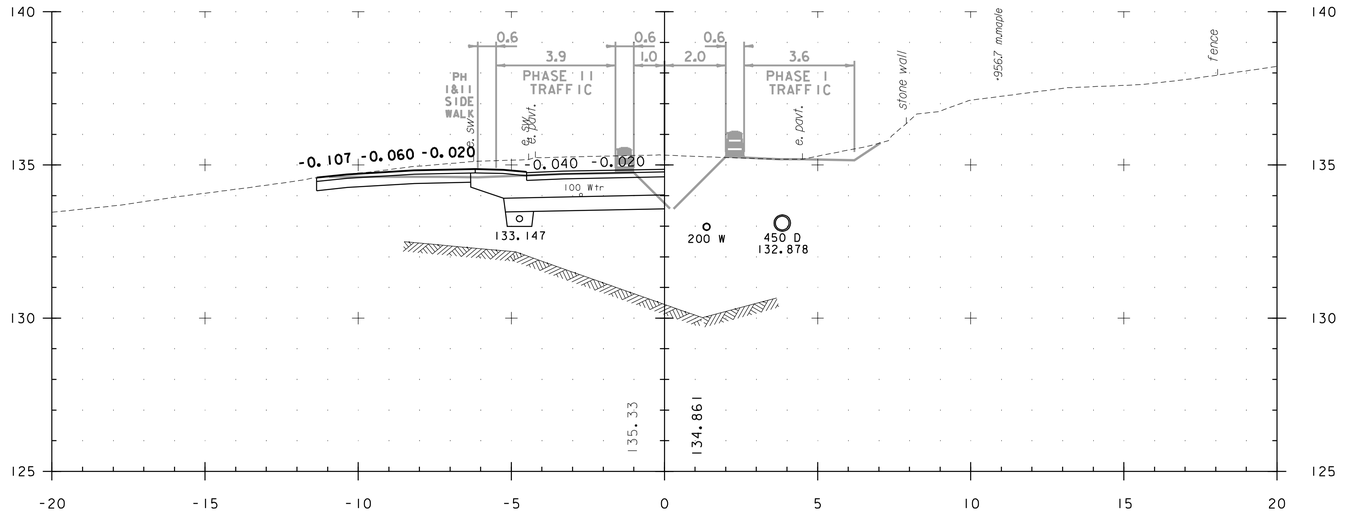
0 2 4 6 8 10
SCALE IN METERS

PROJECT NAME:	BRANDON
PROJECT NUMBER:	NH 019-3(496)
FILE NAME: zb008s6-xs.dgn	PLOT DATE: 2/23/2017
PROJECT LEADER: C. BEAN	DRAWN BY: N. LEMAY
DESIGNED BY: D. MUNRO	CHECKED BY: D. MUNRO
	SHEET 485 OF 601

CLD 02-0448 MODEL: 10

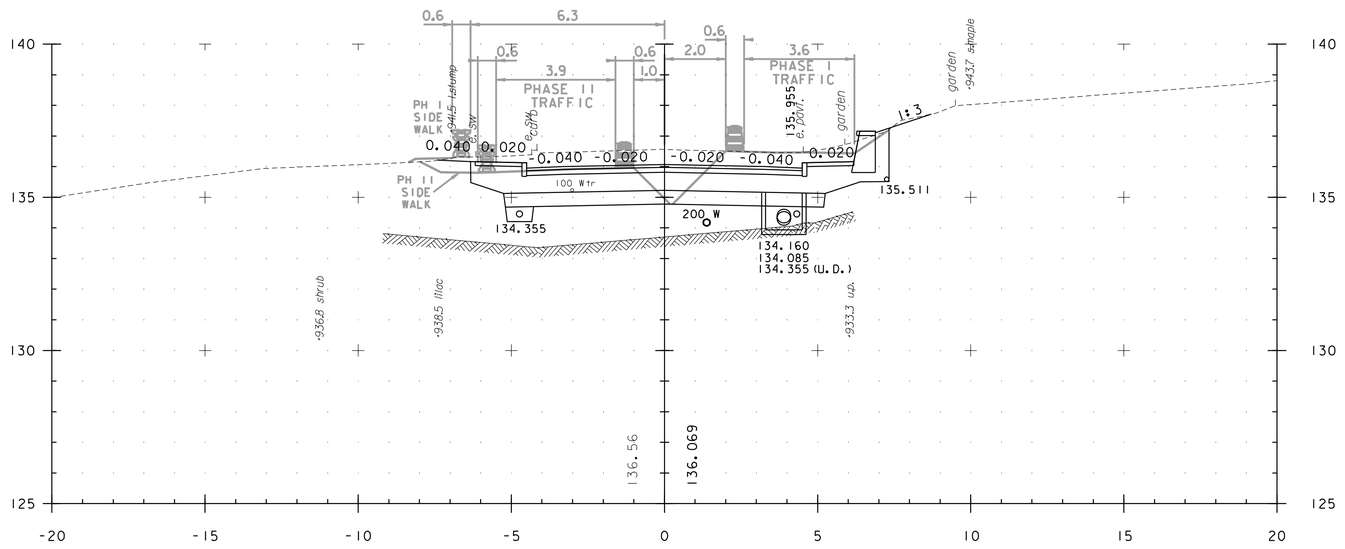
ISSUED FOR CONSTRUCTION

VAOT Metric



20+954.6

DRIVE LT



20+940.0

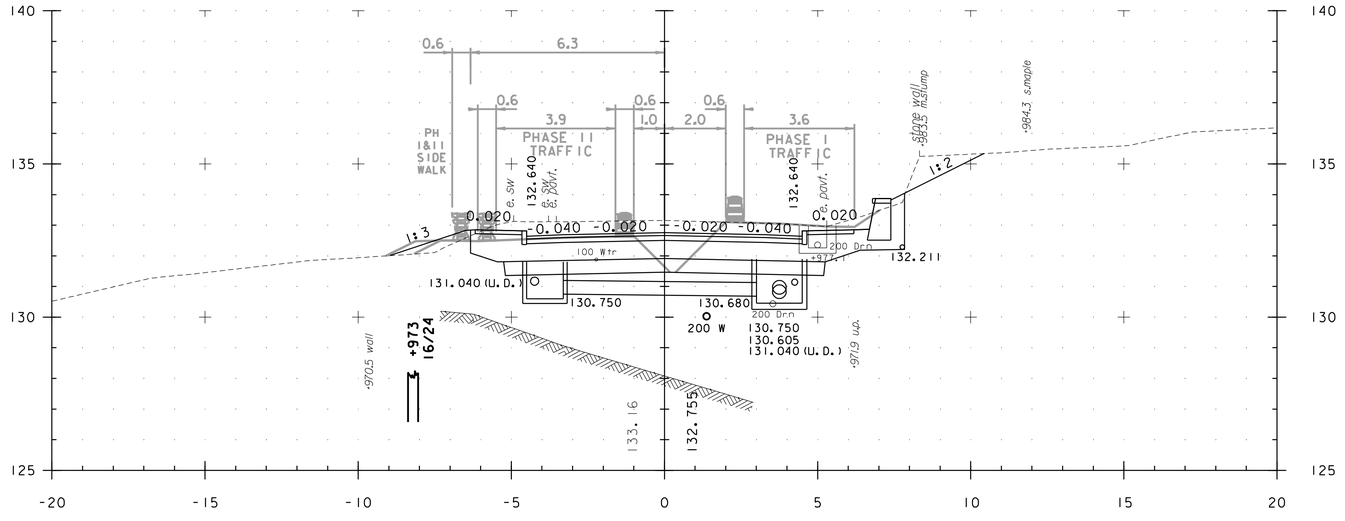
0 2 4 6 8 10

SCALE IN METERS

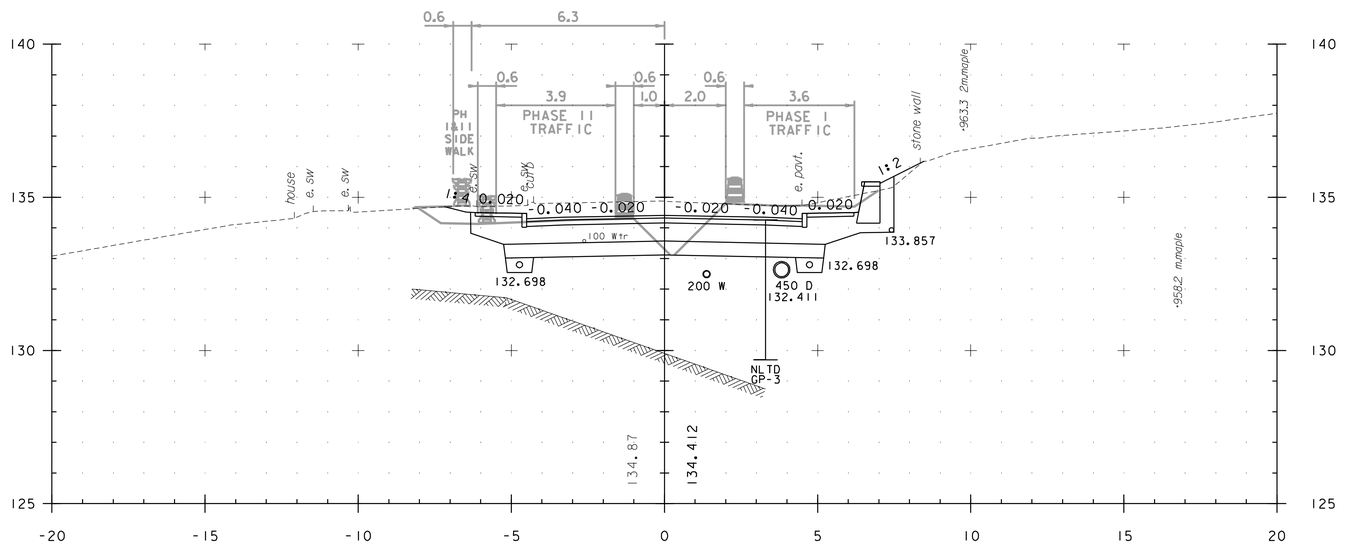
PROJECT NAME:	BRANDON
PROJECT NUMBER:	NH 019-3(496)
FILE NAME: zb008s6-xs.dgn	PLOT DATE: 2/23/2017
PROJECT LEADER: C. BEAN	DRAWN BY: N. LEMAY
DESIGNED BY: D. MUNRO	CHECKED BY: D. MUNRO
	SHEET 486 OF 601

CLD 02-0448 MODEL: II

ISSUED FOR CONSTRUCTION



20+980.0



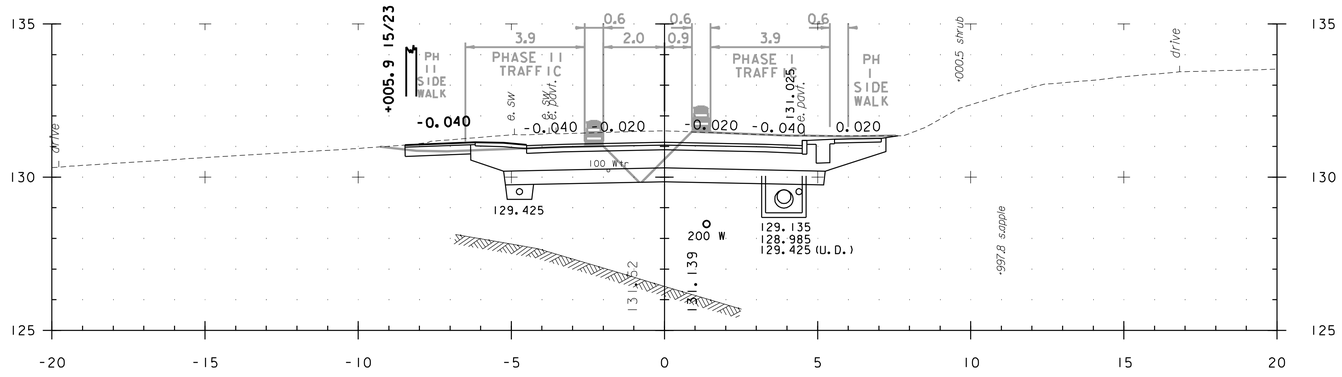
20+960.0

0 2 4 6 8 10
SCALE IN METERS

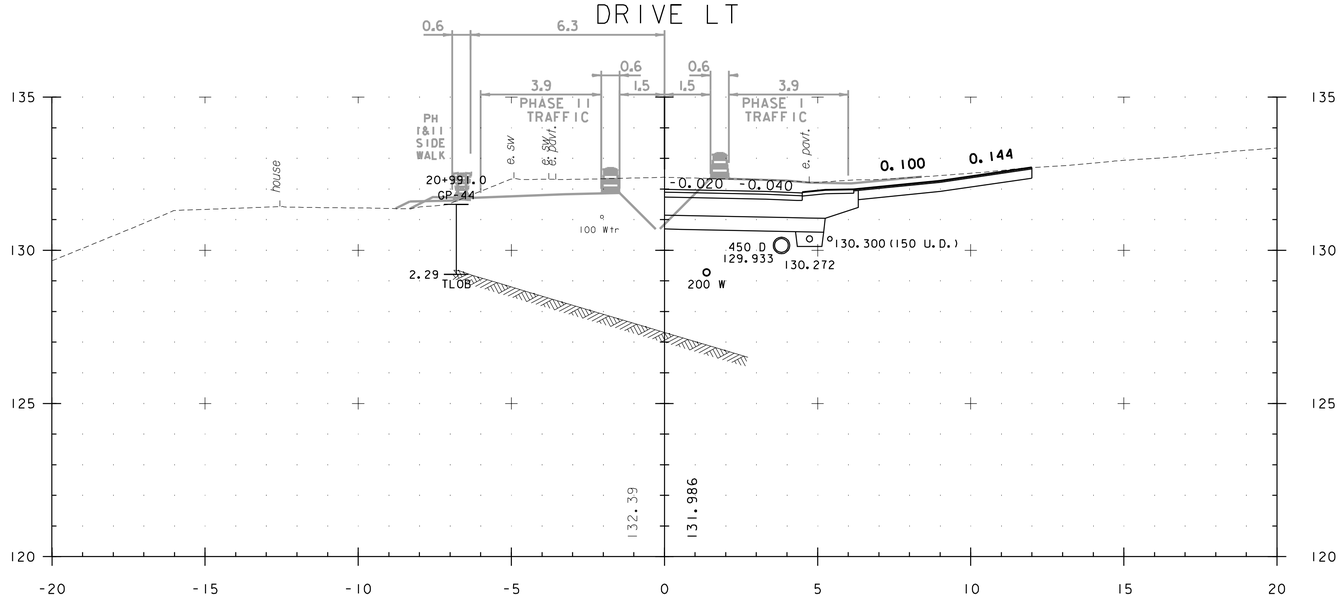
PROJECT NAME:	BRANDON
PROJECT NUMBER:	NH 019-3(496)
FILE NAME: zb008s6-xs.dgn	PLOT DATE: 2/23/2017
PROJECT LEADER: C. BEAN	DRAWN BY: N. LEMAY
DESIGNED BY: D. MUNRO	CHECKED BY: D. MUNRO
	SHEET 487 OF 601

CLD 02-0448 MODEL: 12

ISSUED FOR CONSTRUCTION



21+000.0
DRIVE LT

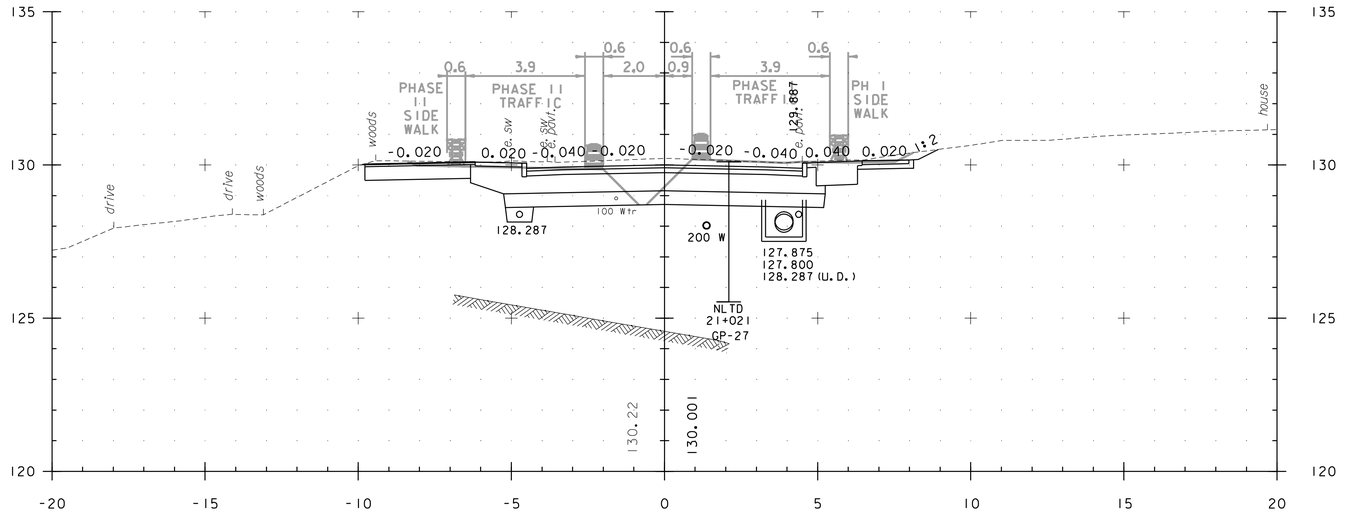


20+989.3
DRIVE RT

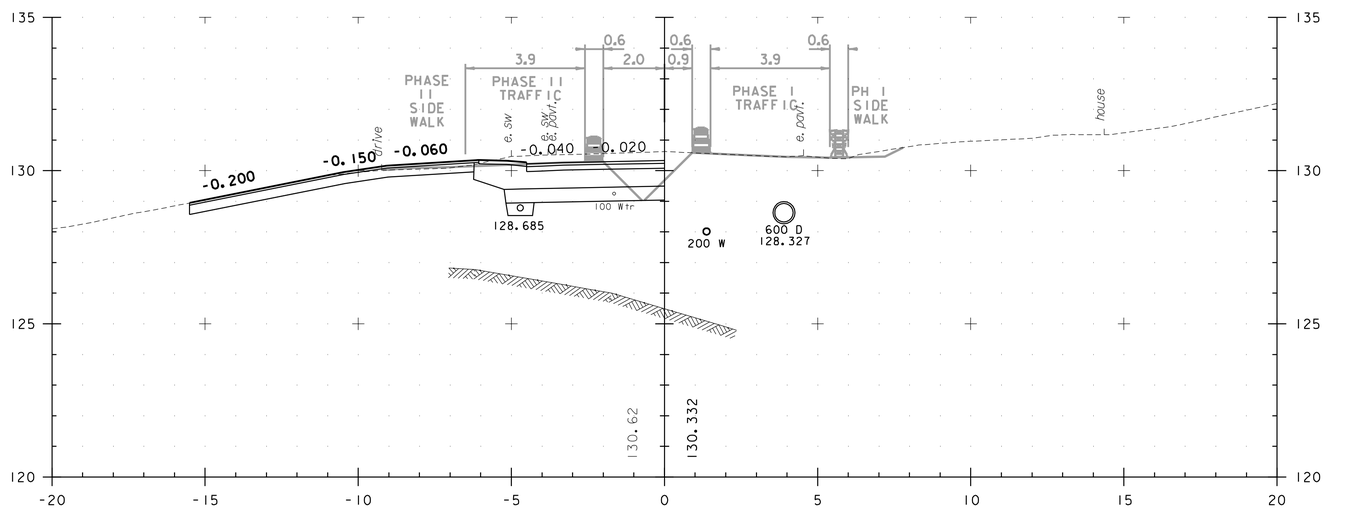
0 2 4 6 8 10
SCALE IN METERS

PROJECT NAME:	BRANDON
PROJECT NUMBER:	NH 019-3(496)
FILE NAME: zb008s6-xs.dgn	PLOT DATE: 2/23/2017
PROJECT LEADER: C. BEAN	DRAWN BY: N. LEMAY
DESIGNED BY: D. MUNRO	CHECKED BY: D. MUNRO
	SHEET 488 OF 601

CLD 02-0448 MODEL: I3



21+020.0



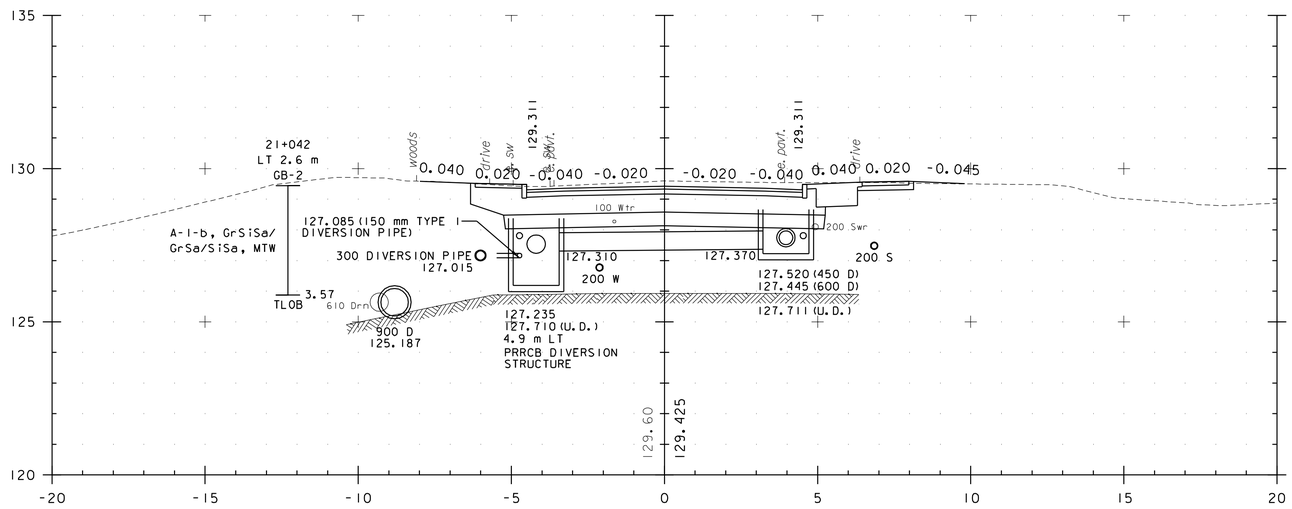
21+013.0
DRIVE LT

0 2 4 6 8 10
SCALE IN METERS

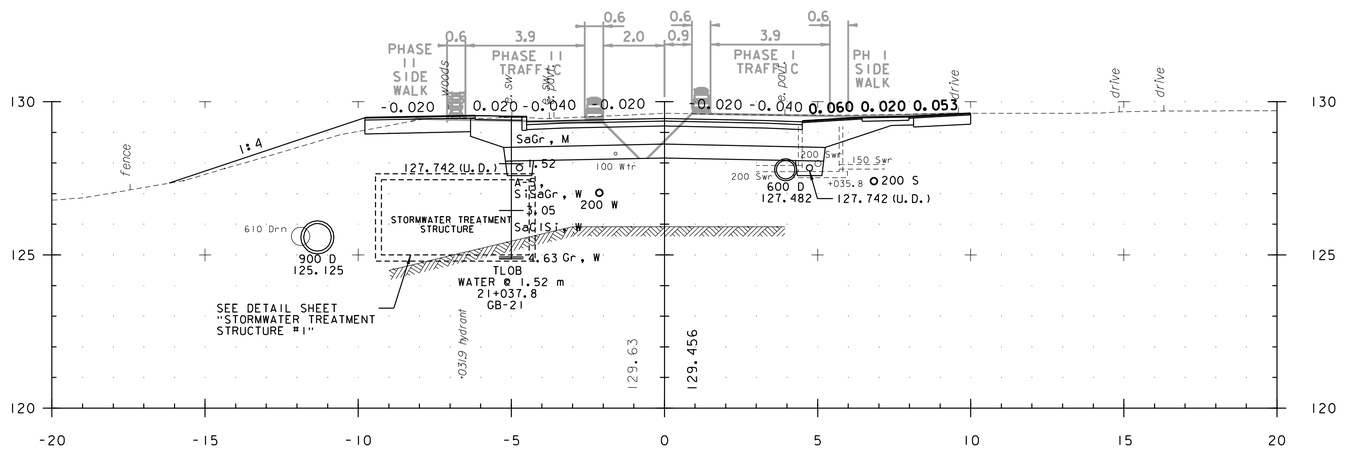
PROJECT NAME:	BRANDON
PROJECT NUMBER:	NH 019-3(496)
FILE NAME: zb008s6-xs.dgn	PLOT DATE: 2/23/2017
PROJECT LEADER: C. BEAN	DRAWN BY: N. LEMAY
DESIGNED BY: D. MUNRO	CHECKED BY: D. MUNRO
	SHEET 489 OF 601

CLD 02-0448 MODEL: 14

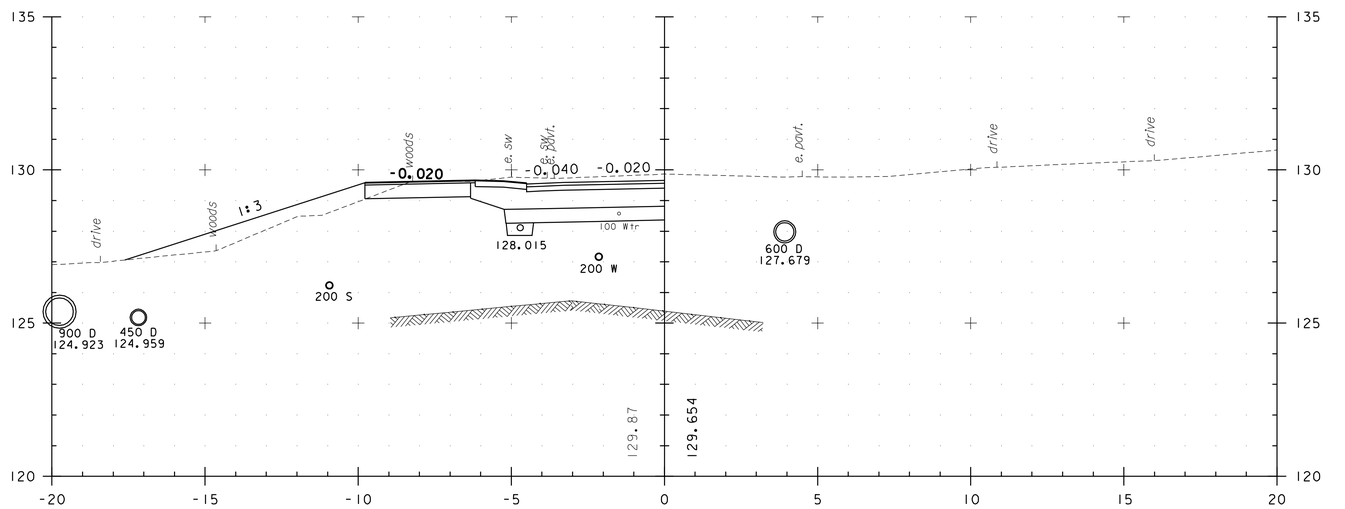
ISSUED FOR CONSTRUCTION



21+043.0



21+040.0
DRIVE RT



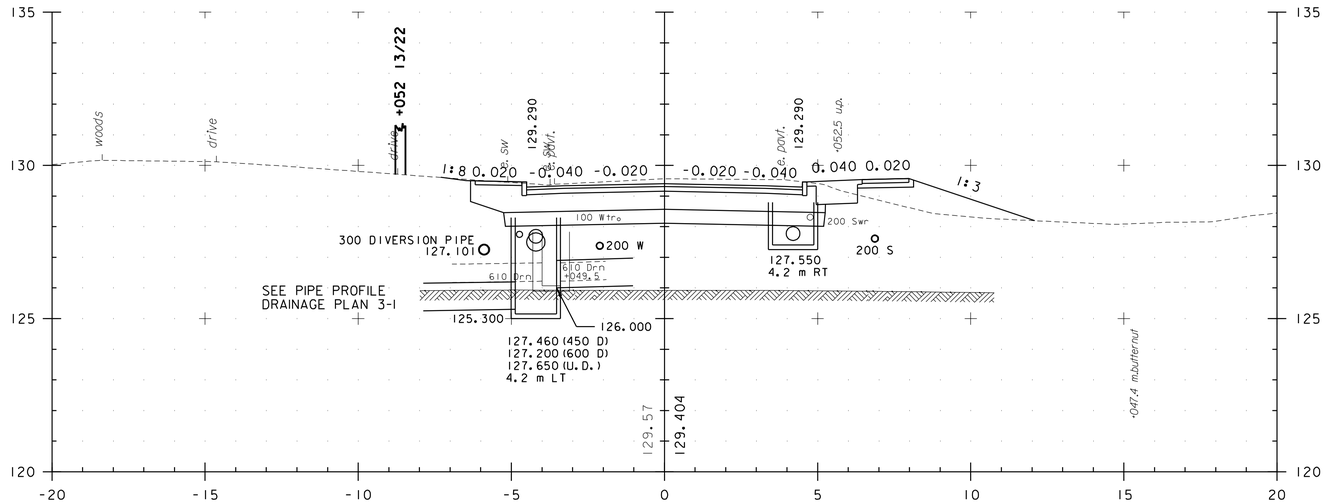
21+030.0
DRIVE LT

0 2 4 6 8 10
SCALE IN METERS

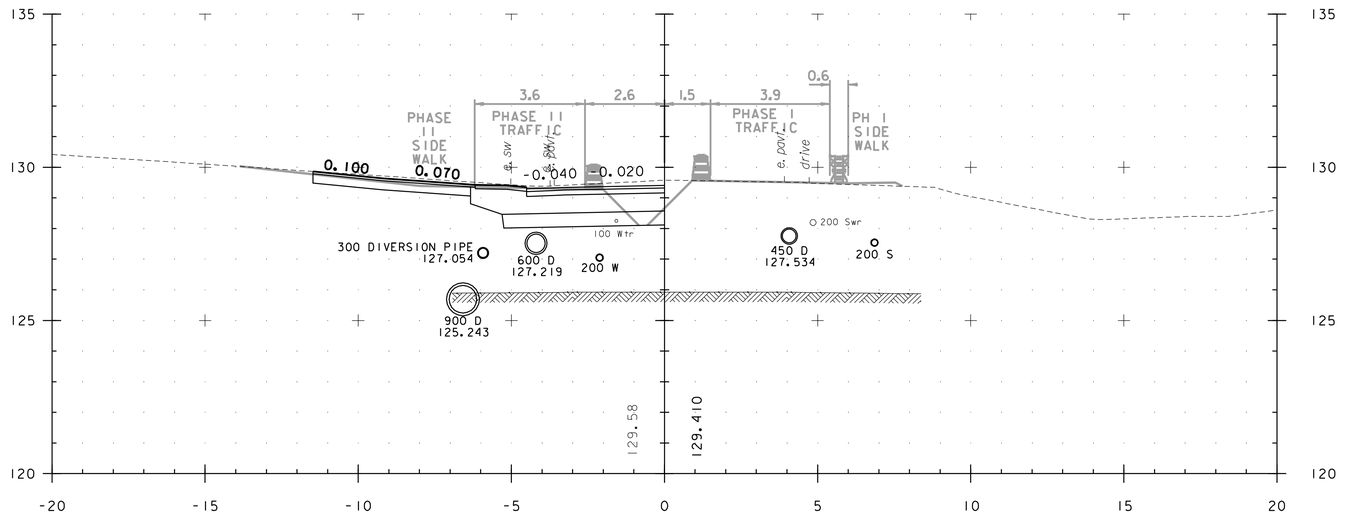
PROJECT NAME:	BRANDON
PROJECT NUMBER:	NH 019-3(496)
FILE NAME: zb008s6-xs.dgn	PLOT DATE: 2/23/2017
PROJECT LEADER: C. BEAN	DRAWN BY: N. LEMAY
DESIGNED BY: D. MUNRO	CHECKED BY: D. MUNRO
	SHEET 490 OF 601

CLD 02-0448 MODEL: I5

ISSUED FOR CONSTRUCTION



21+048.5



21+045.5
DRIVE LT

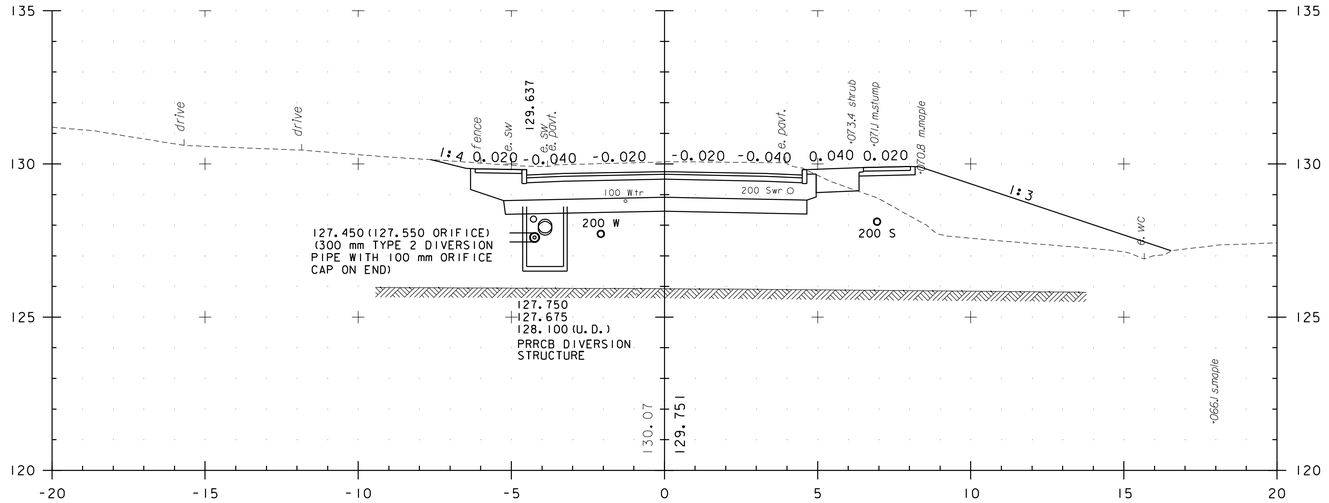
0 2 4 6 8 10
SCALE IN METERS

PROJECT NAME:	BRANDON
PROJECT NUMBER:	NH 019-3(496)

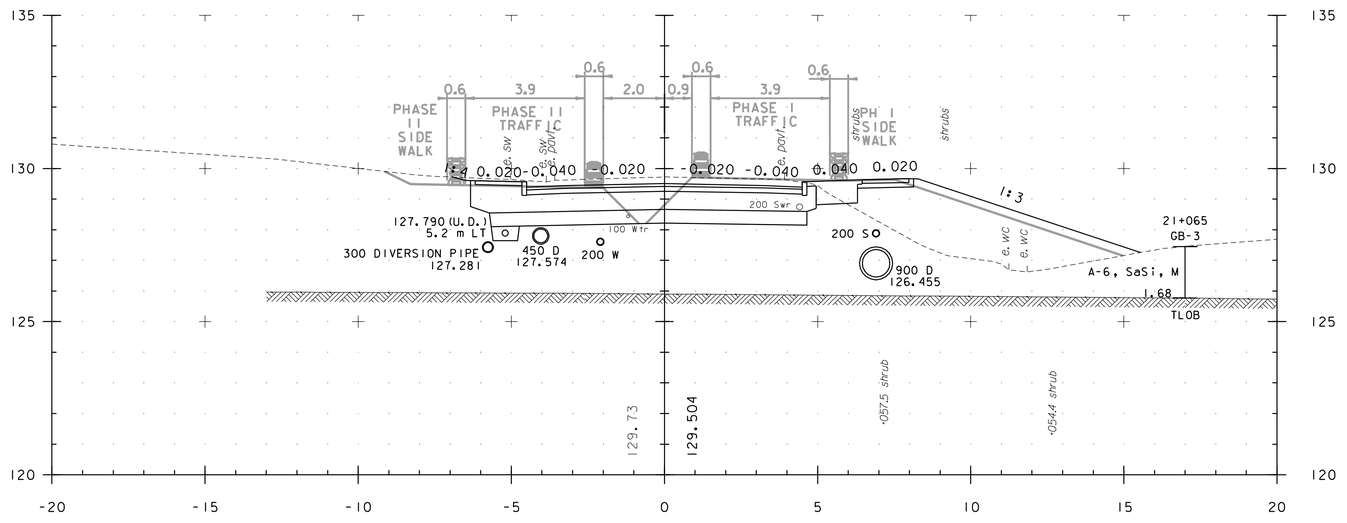
FILE NAME: zb008s6-xs.dgn		PLOT DATE:	2/23/2017
PROJECT LEADER:	C. BEAN	DRAWN BY:	N. LEMAY
DESIGNED BY:	D. MUNRO	CHECKED BY:	D. MUNRO
		SHEET	491 OF 601

CLD 02-0448 MODEL:16

ISSUED FOR CONSTRUCTION



21+070.0



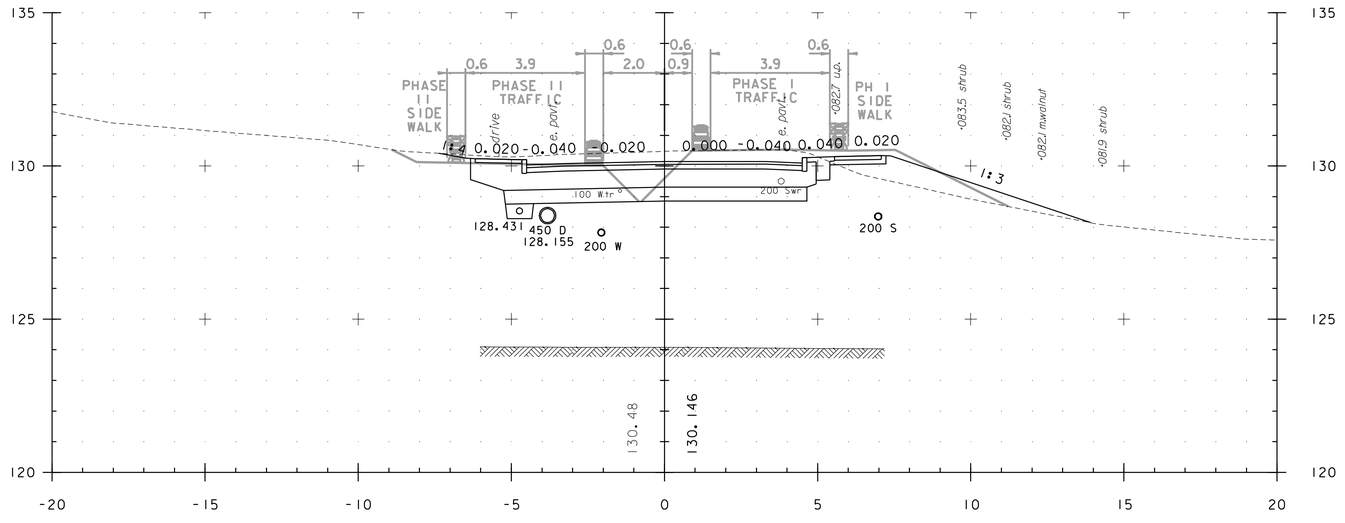
21+060.0

0 2 4 6 8 10
SCALE IN METERS

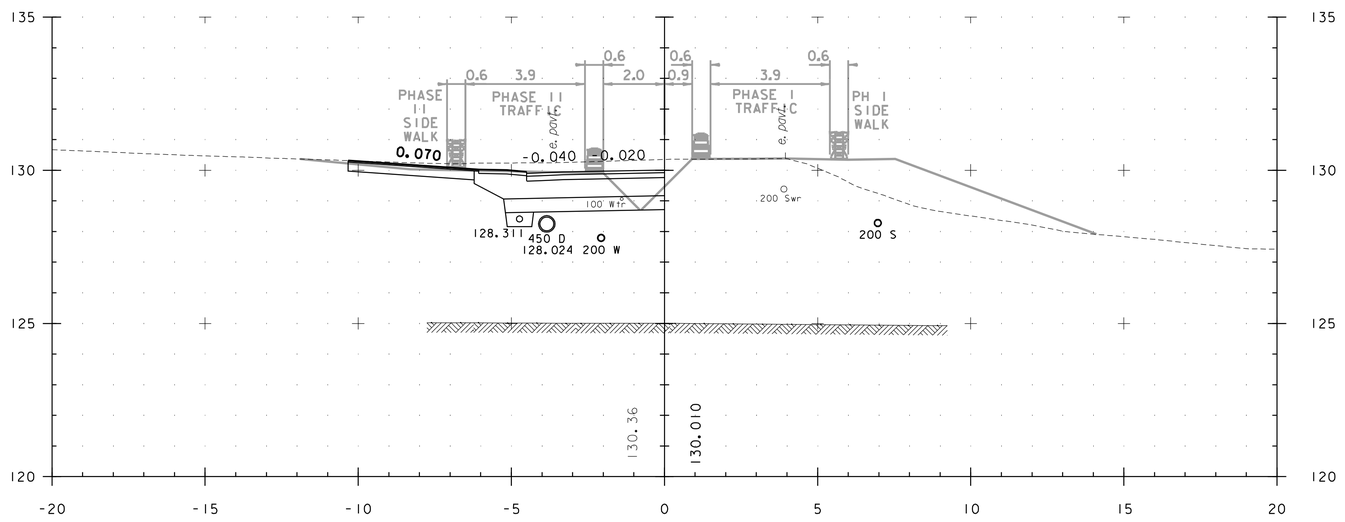
PROJECT NAME:	BRANDON
PROJECT NUMBER:	NH 019-3(496)
FILE NAME: zb008s6-xs.dgn	PLOT DATE: 2/23/2017
PROJECT LEADER: C. BEAN	DRAWN BY: N. LEMAY
DESIGNED BY: D. MUNRO	CHECKED BY: D. MUNRO
	SHEET 492 OF 601

CLD 02-0448 MODEL: i7

ISSUED FOR CONSTRUCTION



21+080.0



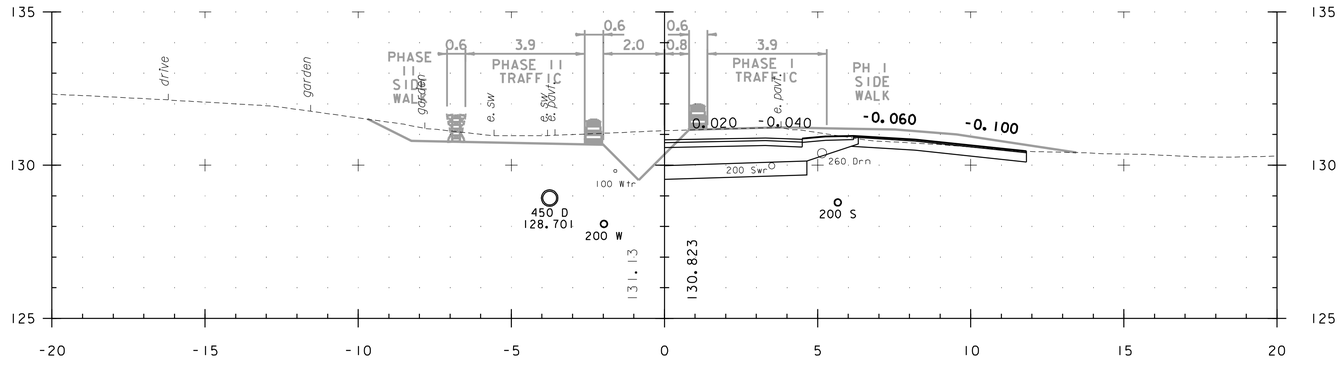
21+077.0
DRIVE LT

0 2 4 6 8 10
SCALE IN METERS

PROJECT NAME:	BRANDON
PROJECT NUMBER:	NH 019-3(496)
FILE NAME: zb008s6-xs.dgn	PLOT DATE: 2/23/2017
PROJECT LEADER: C. BEAN	DRAWN BY: N. LEMAY
DESIGNED BY: D. MUNRO	CHECKED BY: D. MUNRO
	SHEET 493 OF 601

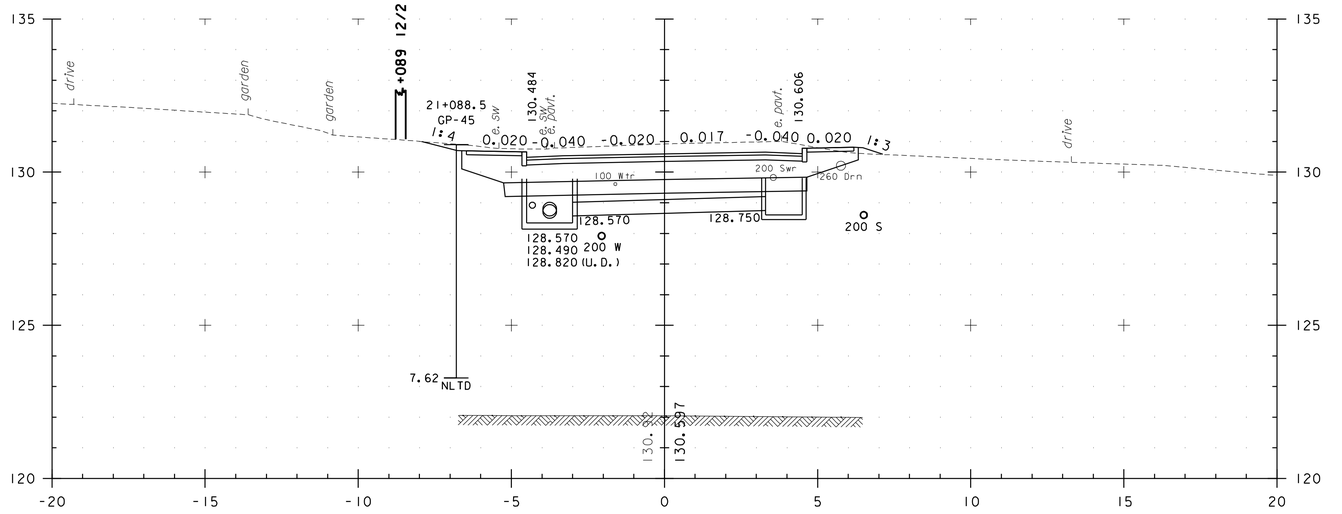
CLD 02-0448 MODEL: 18

ISSUED FOR CONSTRUCTION



21+092.4

DRIVE RT

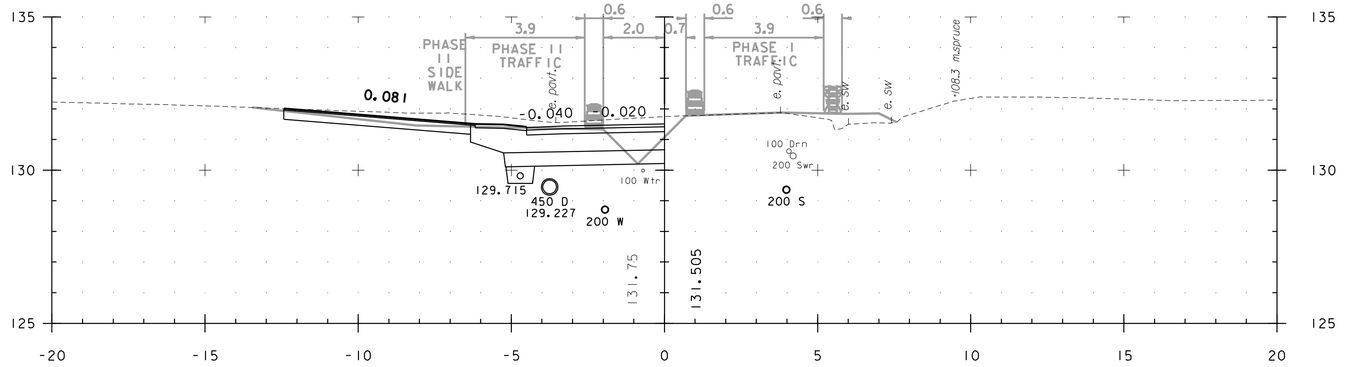


21+088.5

SCALE IN METERS 0 2 4 6 8 10

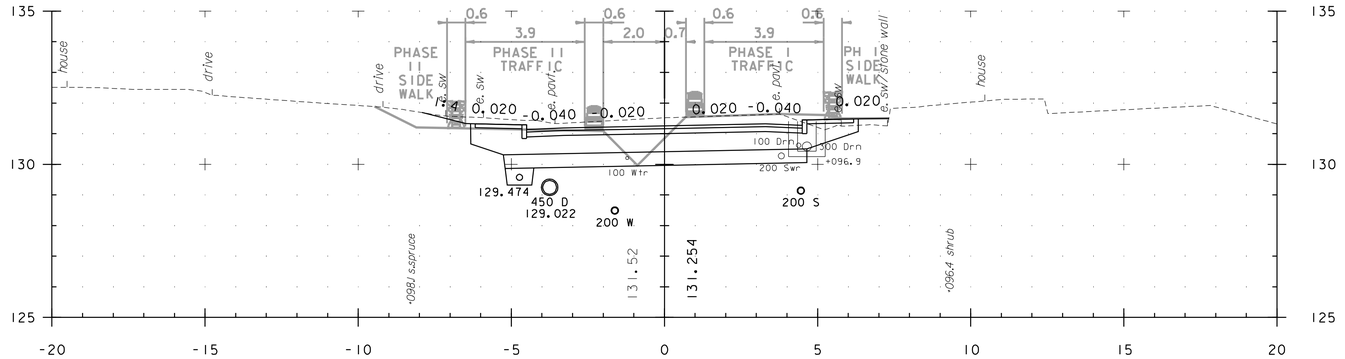
PROJECT NAME:	BRANDON
PROJECT NUMBER:	NH 019-3(496)
FILE NAME: zb008s6-xs.dgn	PLOT DATE: 2/23/2017
PROJECT LEADER: C. BEAN	DRAWN BY: N. LEMAY
DESIGNED BY: D. MUNRO	CHECKED BY: D. MUNRO
	SHEET 494 OF 601

CLD 02-0448 MODEL: 19



21+104.8

DRIVE LT



21+100.0

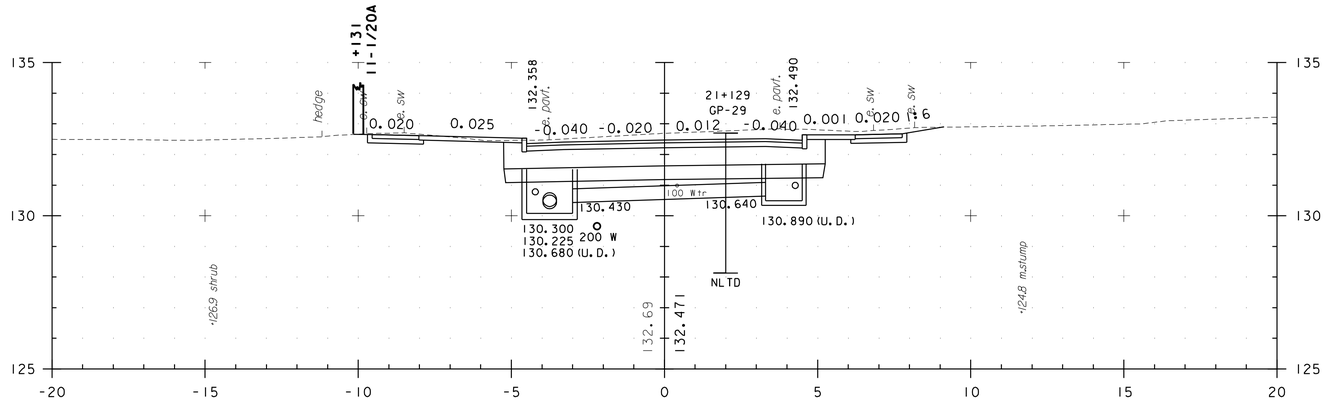
0 2 4 6 8 10

SCALE IN METERS

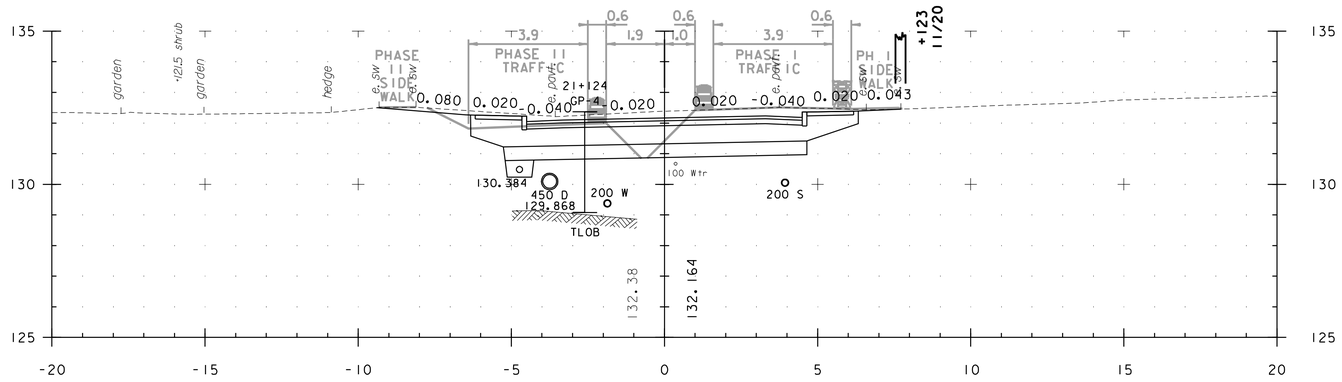
PROJECT NAME:	BRANDON
PROJECT NUMBER:	NH 019-3(496)

FILE NAME: zb008s6-xs.dgn		PLOT DATE:	2/23/2017
PROJECT LEADER:	C. BEAN	DRAWN BY:	N. LEMAY
DESIGNED BY:	D. MUNRO	CHECKED BY:	D. MUNRO
		SHEET	495 OF 601

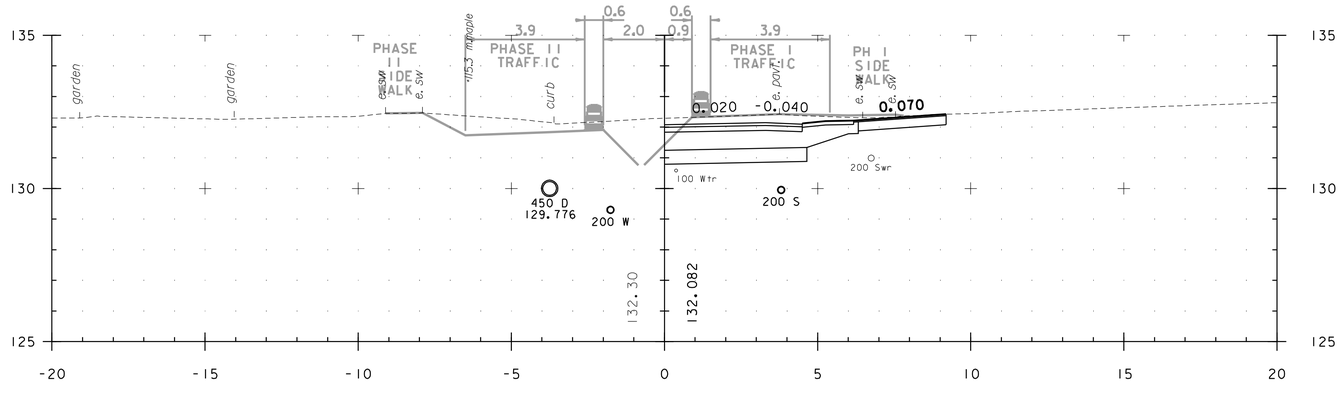
CLD 02-0448 MODEL: 20



21+129.2



21+120.0

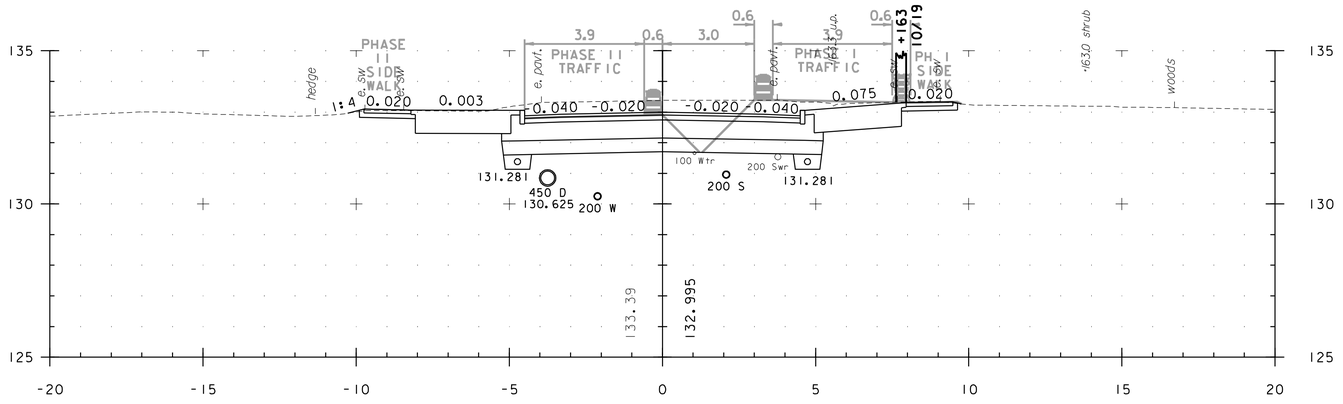


21+117.8
DRIVE RT

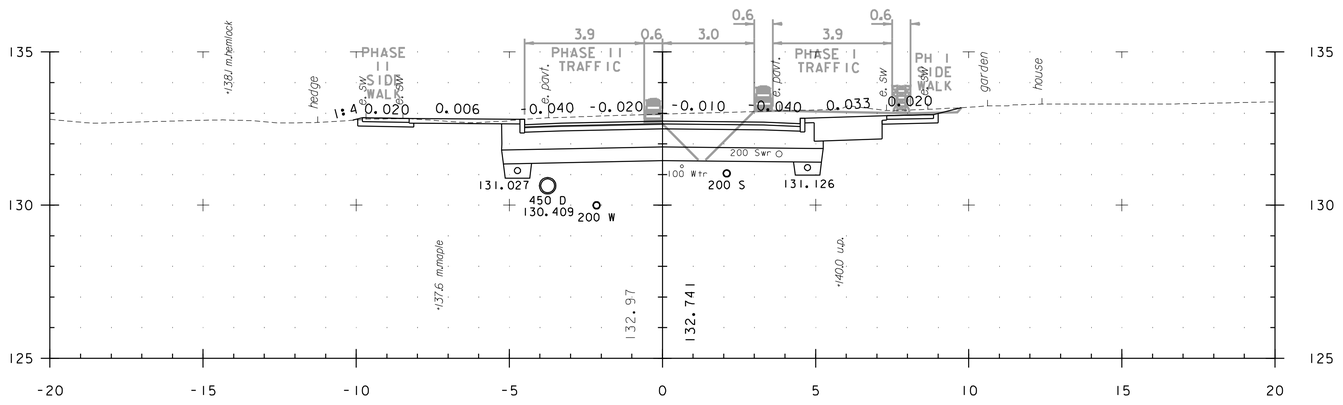
0 2 4 6 8 10
SCALE IN METERS

PROJECT NAME:	BRANDON
PROJECT NUMBER:	NH 019-3(496)
FILE NAME: zb008s6-xs.dgn	PLOT DATE: 2/23/2017
PROJECT LEADER: C. BEAN	DRAWN BY: N. LEMAY
DESIGNED BY: D. MUNRO	CHECKED BY: D. MUNRO
	SHEET 496 OF 601

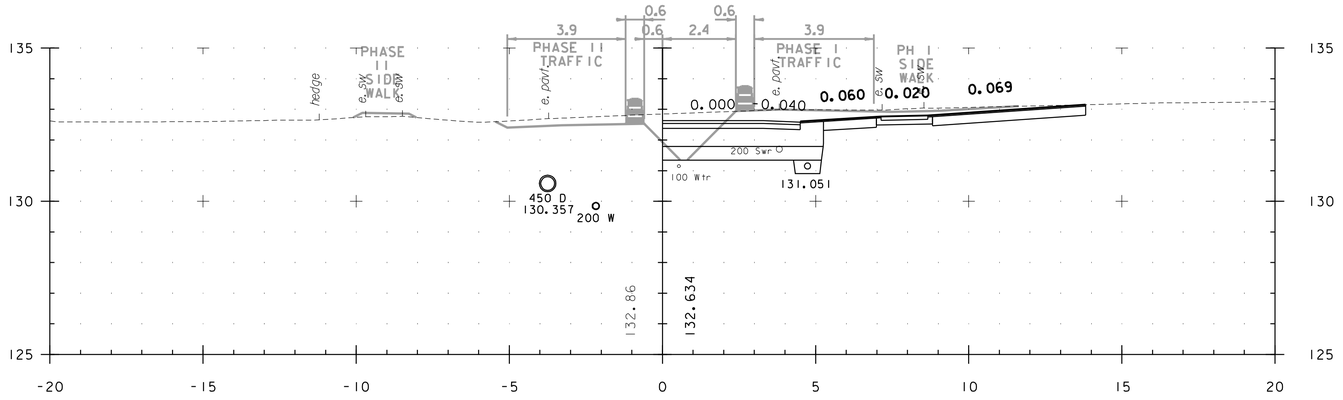
CLD 02-0448 MODEL: 21



21+160.0



21+140.0



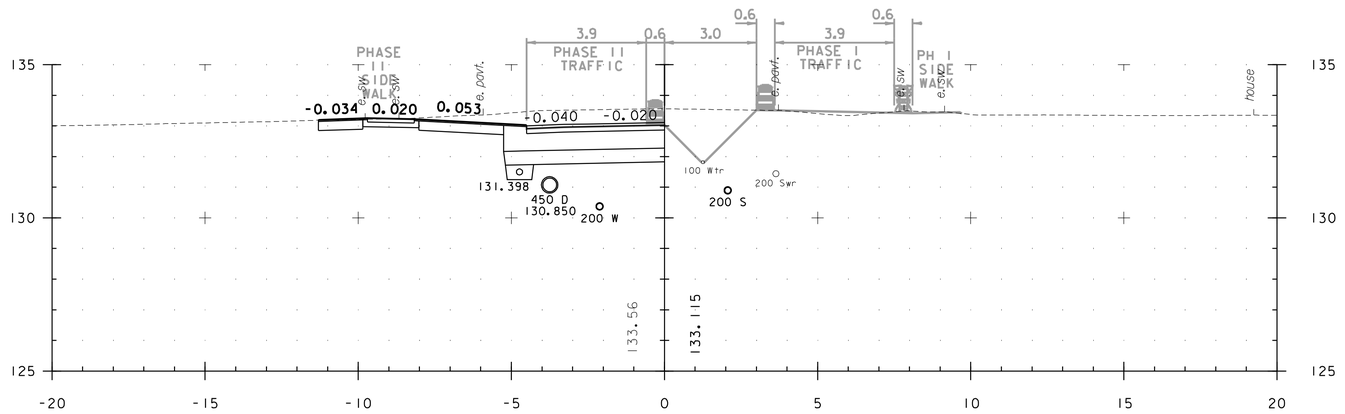
21+135.2
DRIVE RT

0 2 4 6 8 10
SCALE IN METERS

PROJECT NAME:	BRANDON
PROJECT NUMBER:	NH 019-3(496)
FILE NAME: zb008s6-xs.dgn	PLOT DATE: 2/23/2017
PROJECT LEADER: C. BEAN	DRAWN BY: N. LEMAY
DESIGNED BY: D. MUNRO	CHECKED BY: D. MUNRO
	SHEET 497 OF 601

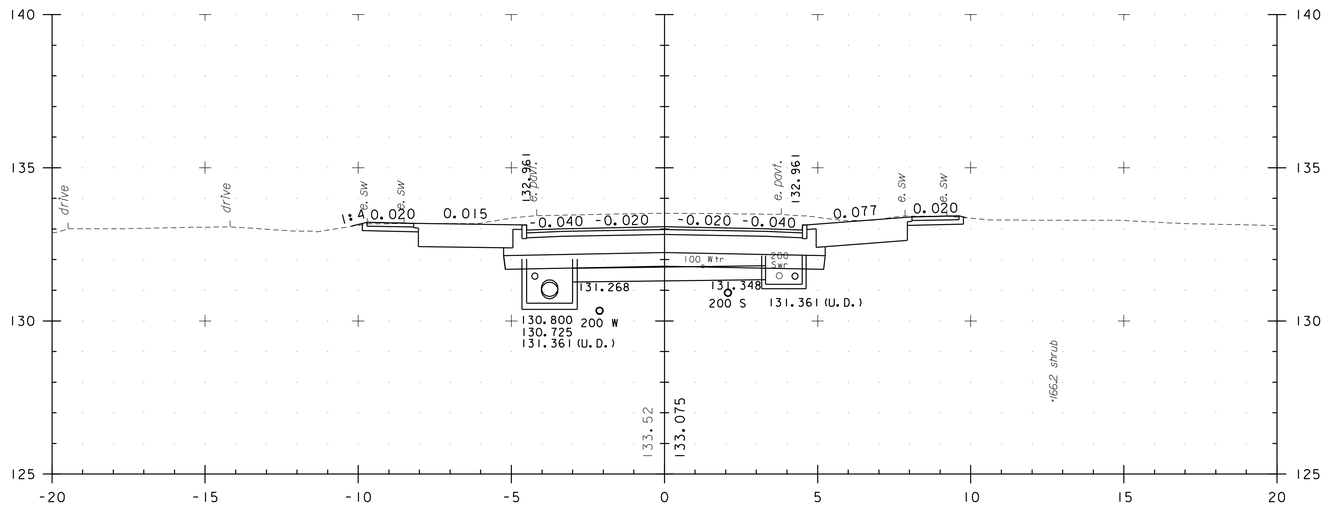
CLD 02-0448 MODEL: 22

ISSUED FOR CONSTRUCTION



21+175.0

DRIVE LT



21+170.0

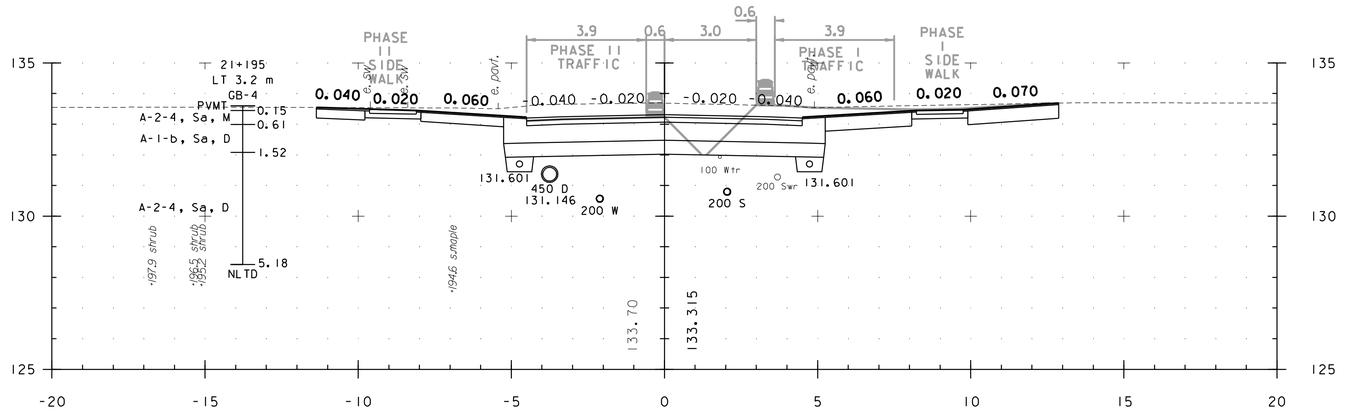
0 2 4 6 8 10

SCALE IN METERS

PROJECT NAME:	BRANDON
PROJECT NUMBER:	NH 019-3(496)
FILE NAME: zb008s6-xs.dgn	PLOT DATE: 2/23/2017
PROJECT LEADER: C. BEAN	DRAWN BY: N. LEMAY
DESIGNED BY: D. MUNRO	CHECKED BY: D. MUNRO
	SHEET 498 OF 601

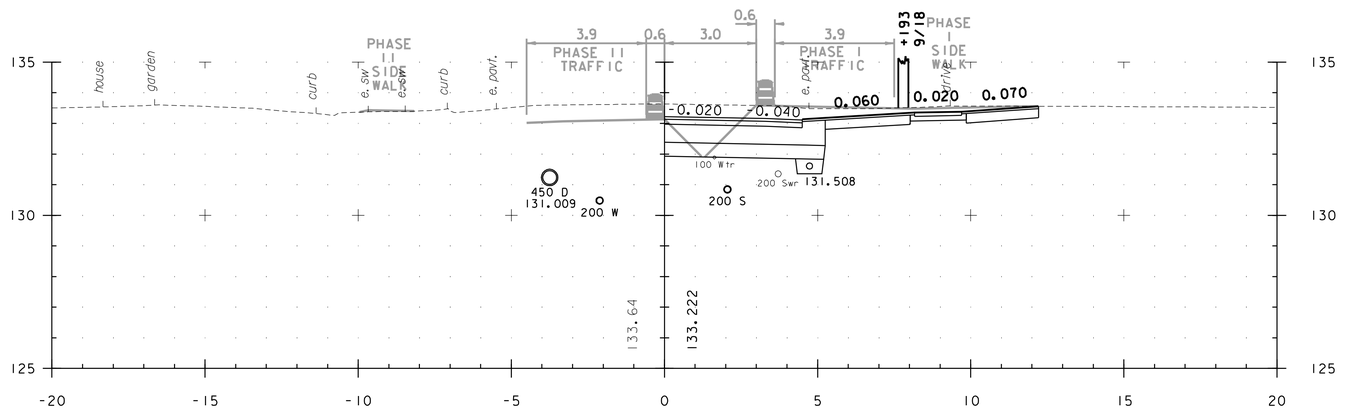
CLD 02-0448 MODEL: 23

ISSUED FOR CONSTRUCTION



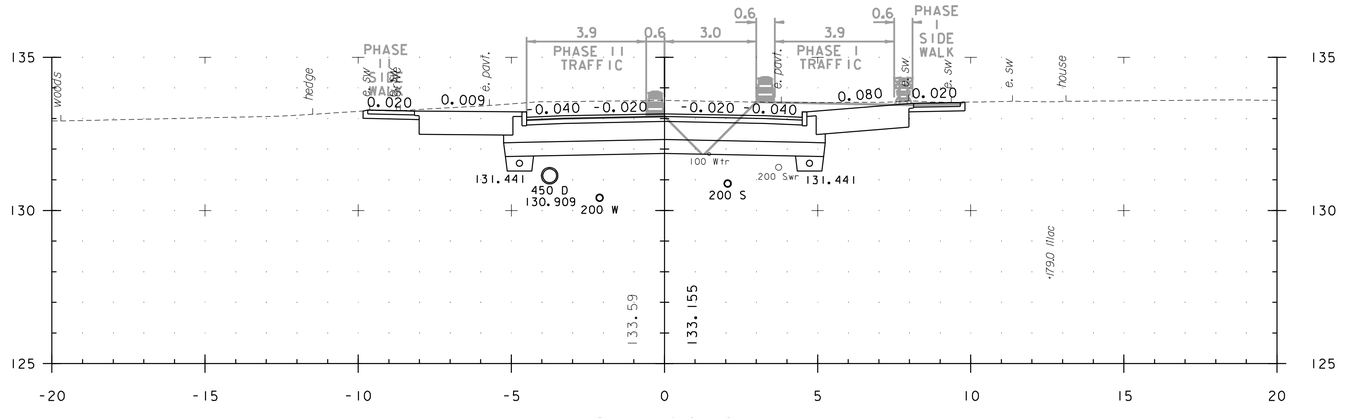
21+200.0

DRIVE LT & RT



21+188.4

DRIVE RT



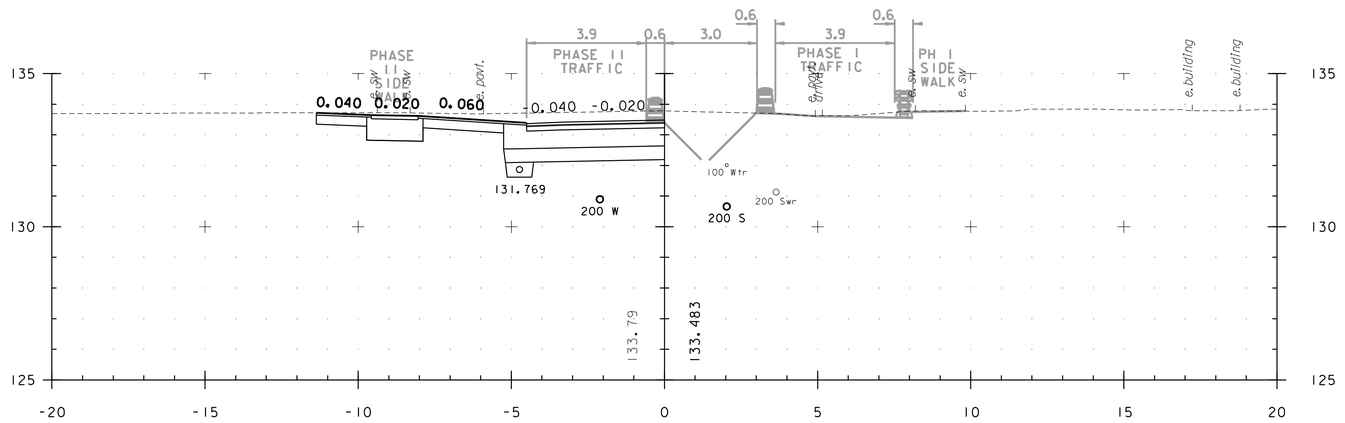
21+180.0

0 2 4 6 8 10
SCALE IN METERS

PROJECT NAME:	BRANDON
PROJECT NUMBER:	NH 019-3(496)
FILE NAME: zb008s6-xs.dgn	PLOT DATE: 2/23/2017
PROJECT LEADER: C. BEAN	DRAWN BY: N. LEMAY
DESIGNED BY: D. MUNRO	CHECKED BY: D. MUNRO
	SHEET 499 OF 601

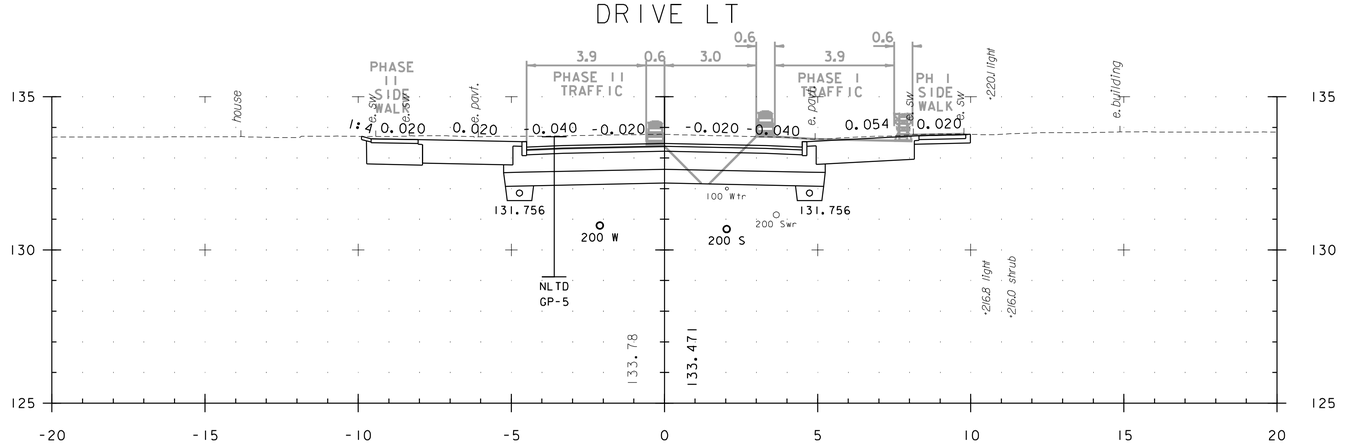
CLD 02-0448 MODEL: 24

ISSUED FOR CONSTRUCTION

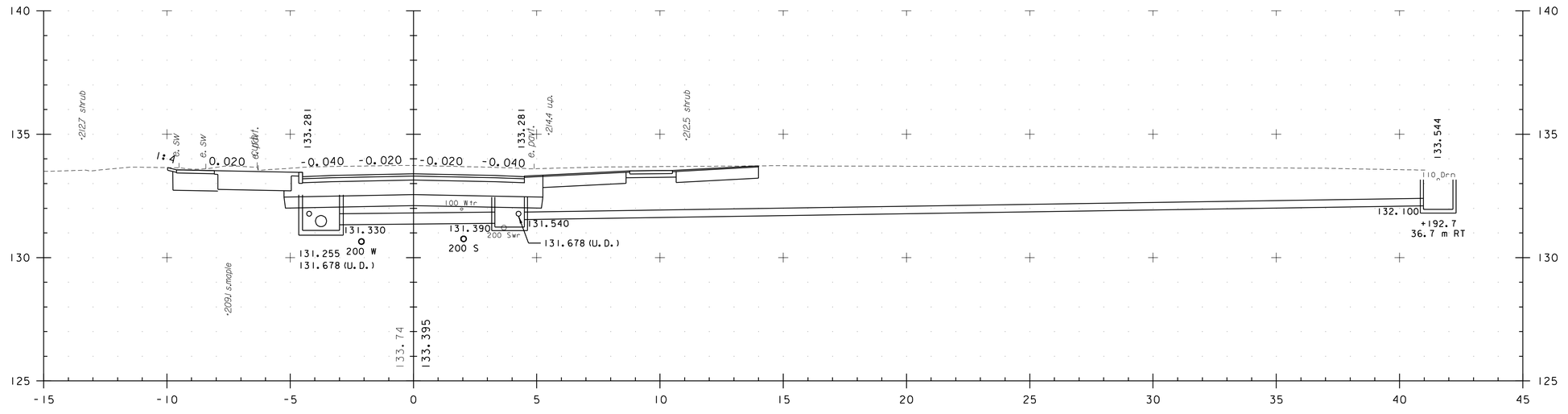


21+222.1

DRIVE LT



21+220.0

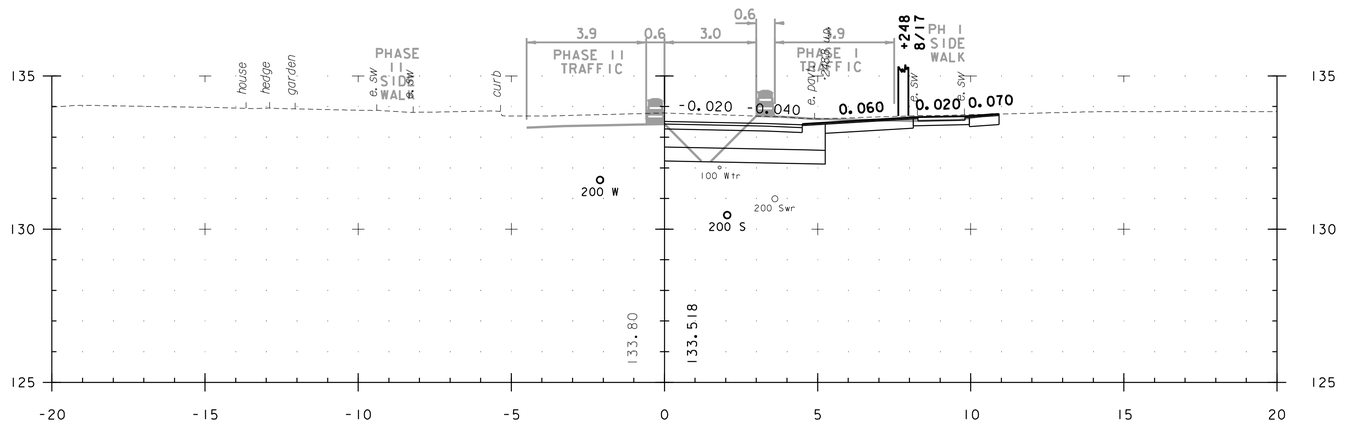


21+210.0 (ALONG PIPE)

0 2 4 6 8 10
SCALE IN METERS

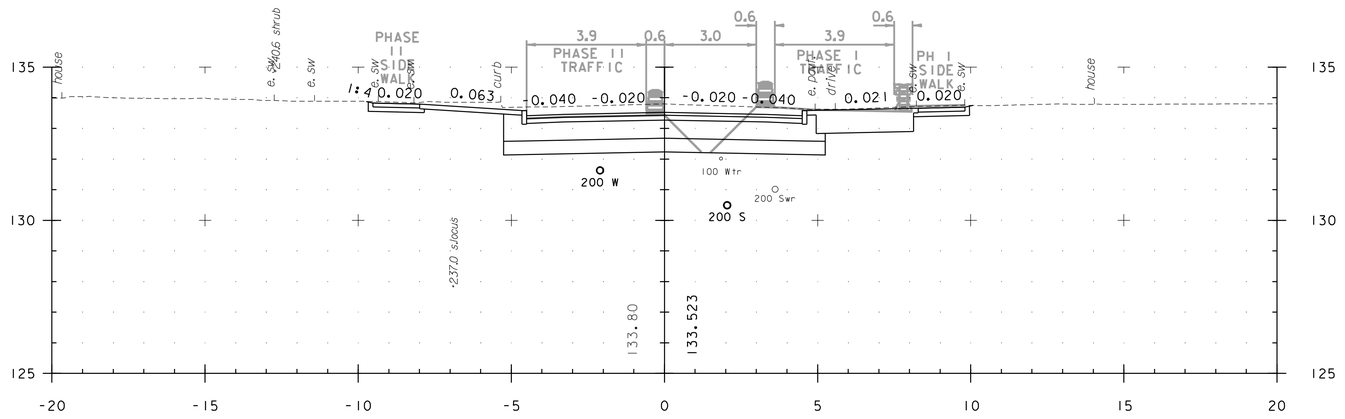
PROJECT NAME:	BRANDON
PROJECT NUMBER:	NH 019-3(496)
FILE NAME: zb008s6-xs.dgn	PLOT DATE: 2/23/2017
PROJECT LEADER: C. BEAN	DRAWN BY: N. LEMAY
DESIGNED BY: D. MUNRO	CHECKED BY: D. MUNRO
	SHEET 500 OF 601

CLD 02-0448 MODEL: 25

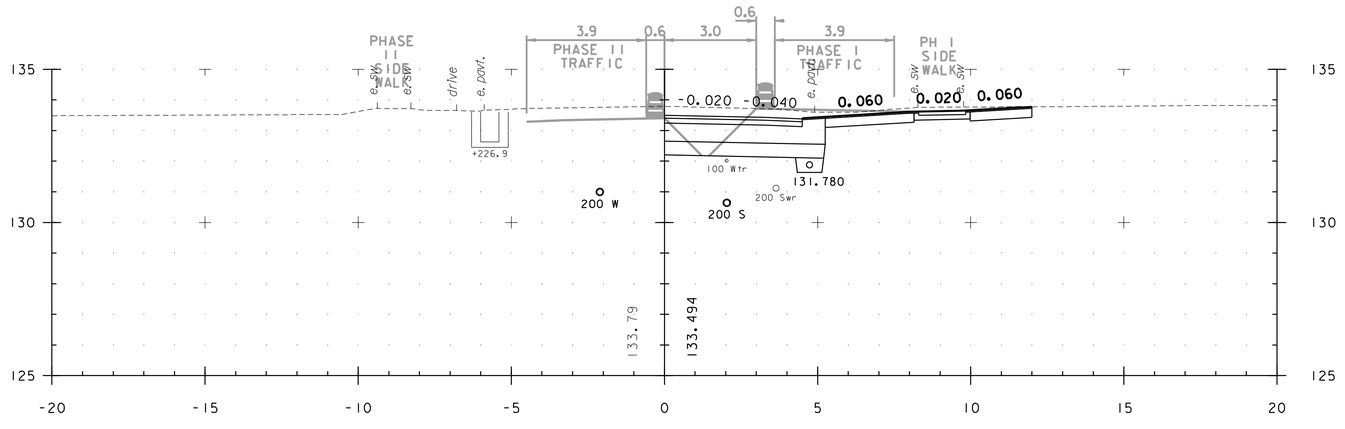


21+243.5

DRIVE RT



21+240.0



21+224.3

DRIVE RT

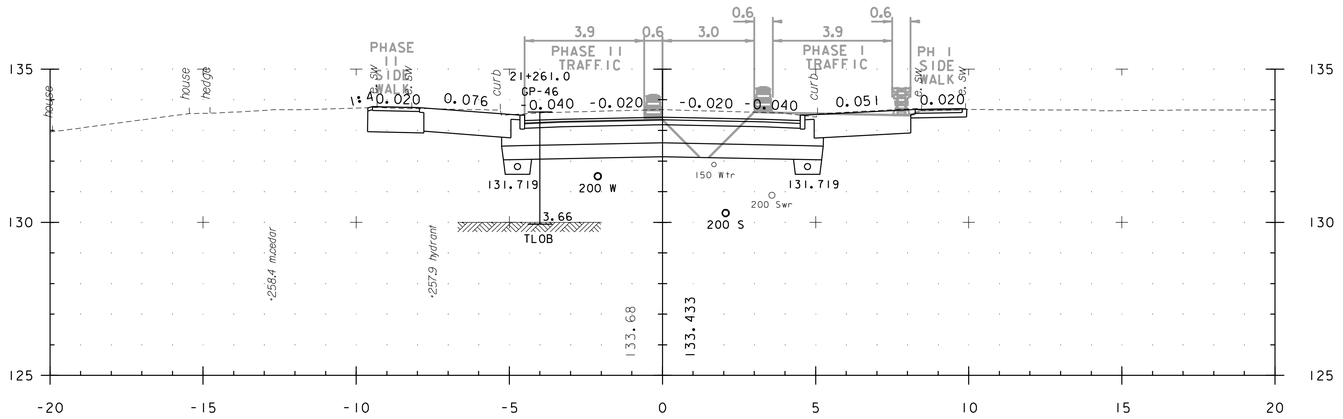
0 2 4 6 8 10

SCALE IN METERS

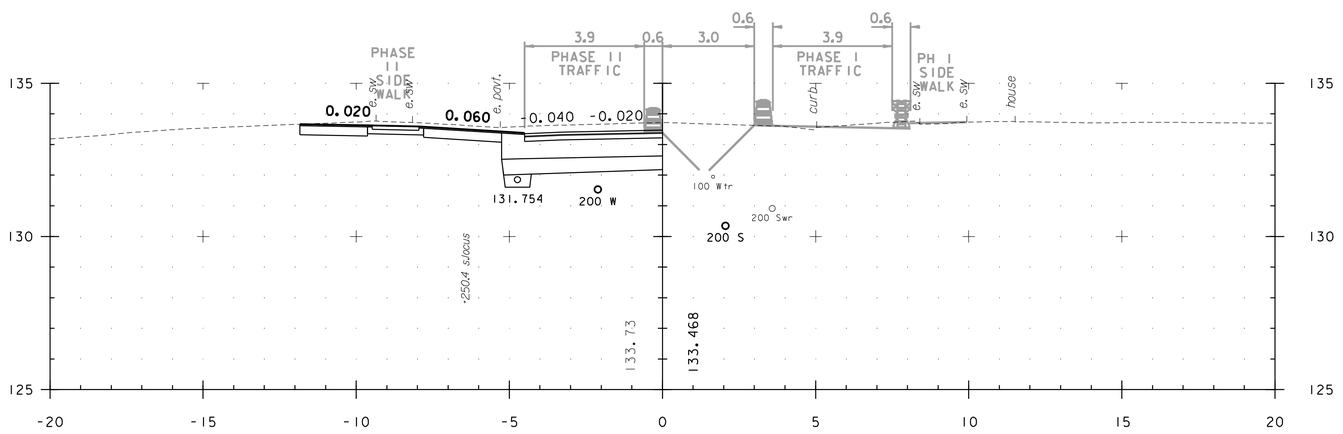
PROJECT NAME:	BRANDON
PROJECT NUMBER:	NH 019-3(496)
FILE NAME: zb008s6-xs.dgn	PLOT DATE: 2/23/2017
PROJECT LEADER: C. BEAN	DRAWN BY: N. LEMAY
DESIGNED BY: D. MUNRO	CHECKED BY: D. MUNRO
	SHEET 501 OF 601

CLD 02-0448 MODEL: 26

ISSUED FOR CONSTRUCTION



21+260.0



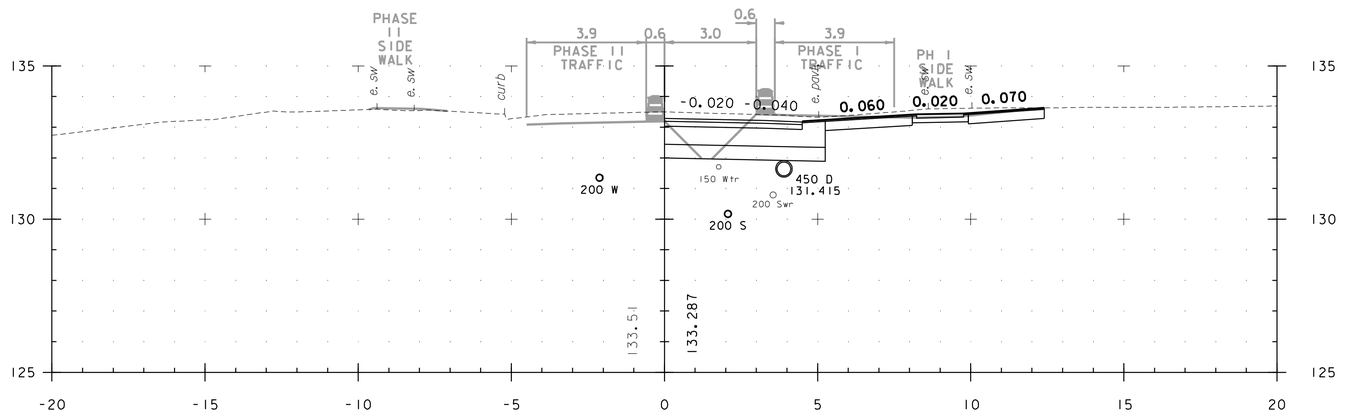
21+255.1
DRIVE LT

0 2 4 6 8 10
SCALE IN METERS

PROJECT NAME:	BRANDON
PROJECT NUMBER:	NH 019-3(496)
FILE NAME: zb008s6-xs.dgn	PLOT DATE: 2/23/2017
PROJECT LEADER: C. BEAN	DRAWN BY: N. LEMAY
DESIGNED BY: D. MUNRO	CHECKED BY: D. MUNRO
	SHEET 502 OF 601

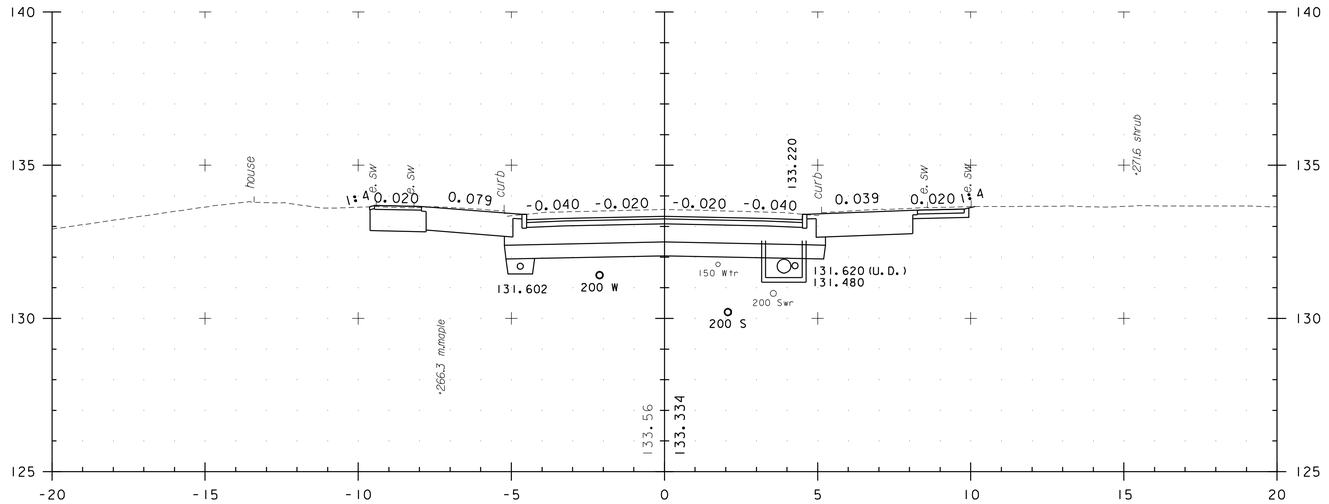
CLD 02-0448 MODEL: 27

ISSUED FOR CONSTRUCTION



21+273.9

DRIVE RT



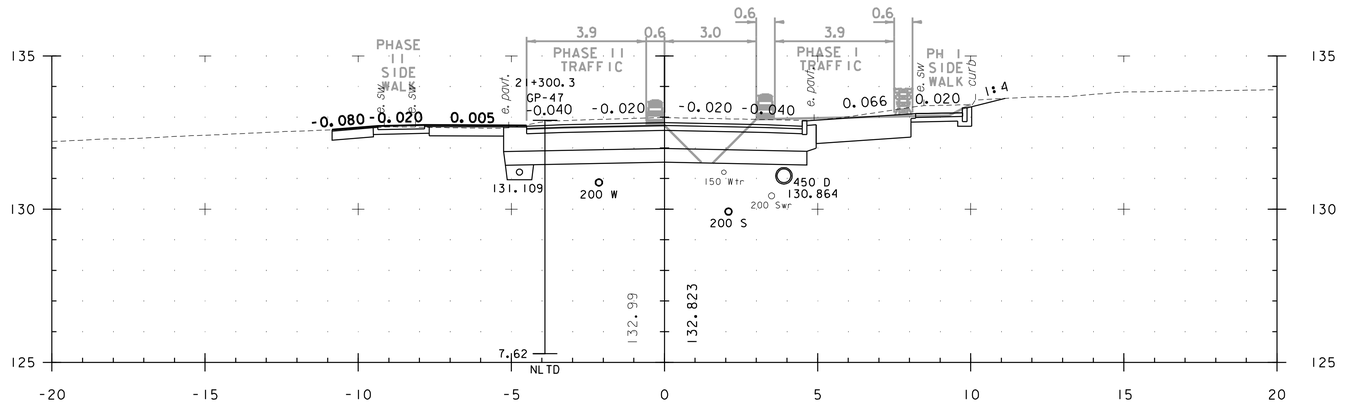
21+270.0

0 2 4 6 8 10

SCALE IN METERS

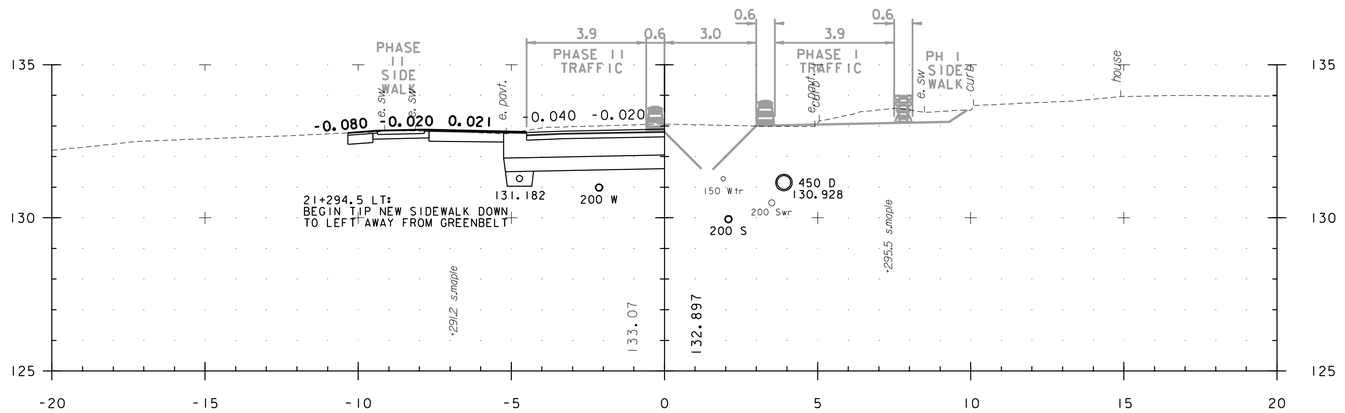
PROJECT NAME:	BRANDON
PROJECT NUMBER:	NH 019-3(496)
FILE NAME: zb008s6-xs.dgn	PLOT DATE: 2/23/2017
PROJECT LEADER: C. BEAN	DRAWN BY: N. LEMAY
DESIGNED BY: D. MUNRO	CHECKED BY: D. MUNRO
	SHEET 503 OF 601

CLD 02-0448 MODEL: 28



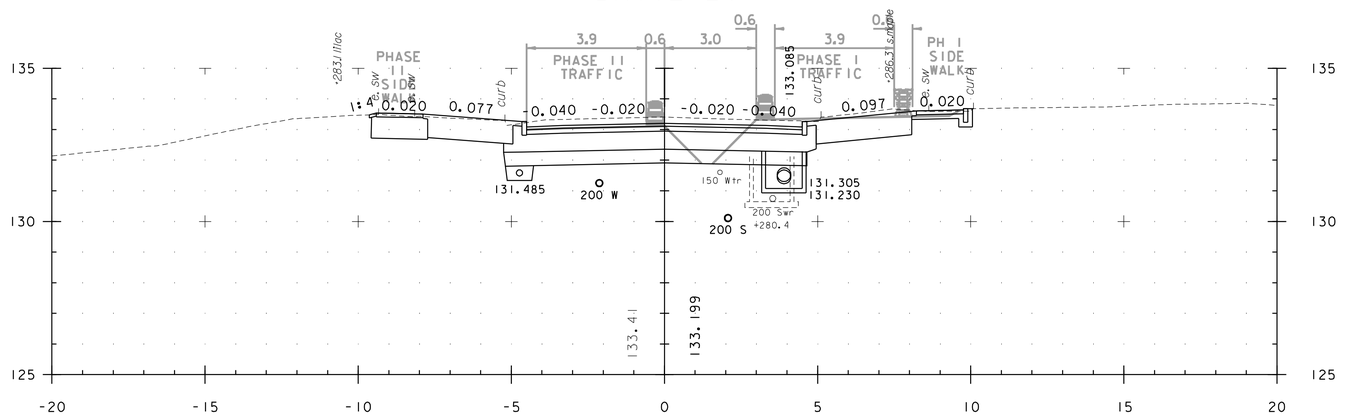
21+300.0

DRIVE LT



21+296.3

DRIVE LT



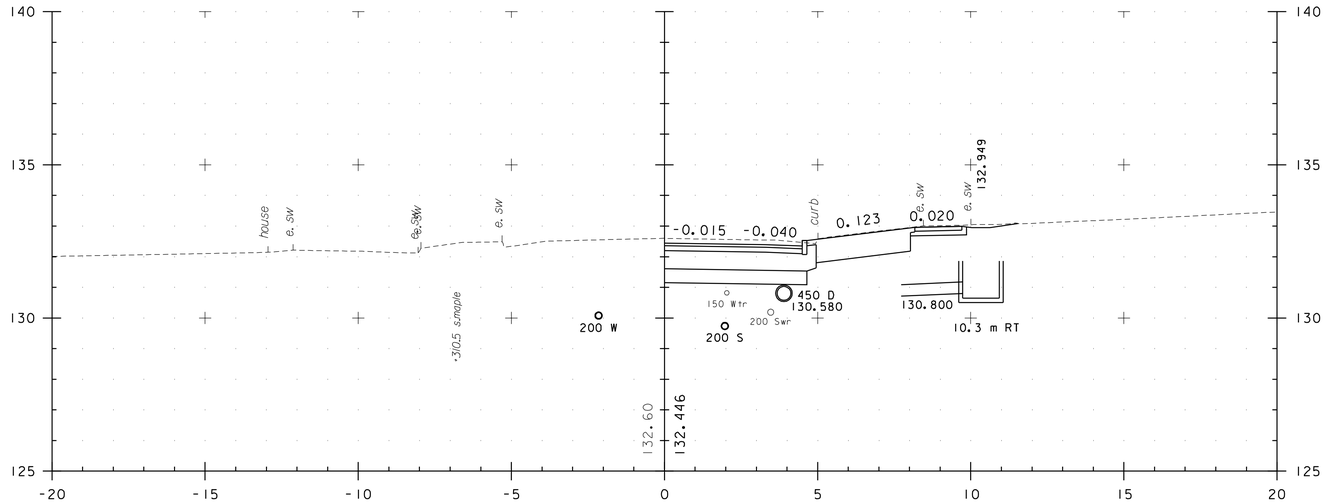
21+280.0

0 2 4 6 8 10
SCALE IN METERS

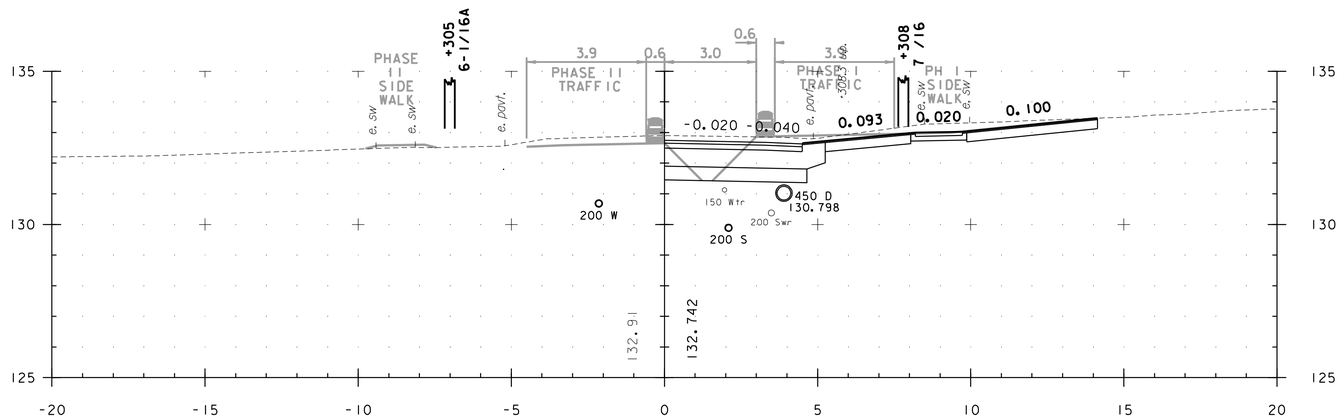
PROJECT NAME:	BRANDON
PROJECT NUMBER:	NH 019-3(496)
FILE NAME: zb008s6-xs.dgn	PLOT DATE: 2/23/2017
PROJECT LEADER: C. BEAN	DRAWN BY: N. LEMAY
DESIGNED BY: D. MUNRO	CHECKED BY: D. MUNRO
	SHEET 504 OF 601

CLD 02-0448 MODEL: 29

ISSUED FOR CONSTRUCTION



21+315.0



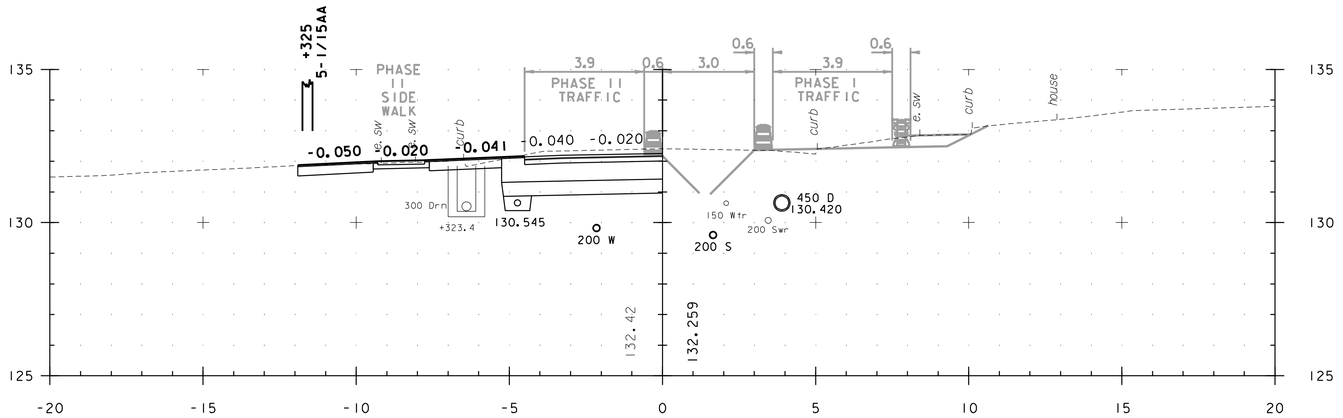
21+303.5
DRIVE RT

0 2 4 6 8 10
SCALE IN METERS

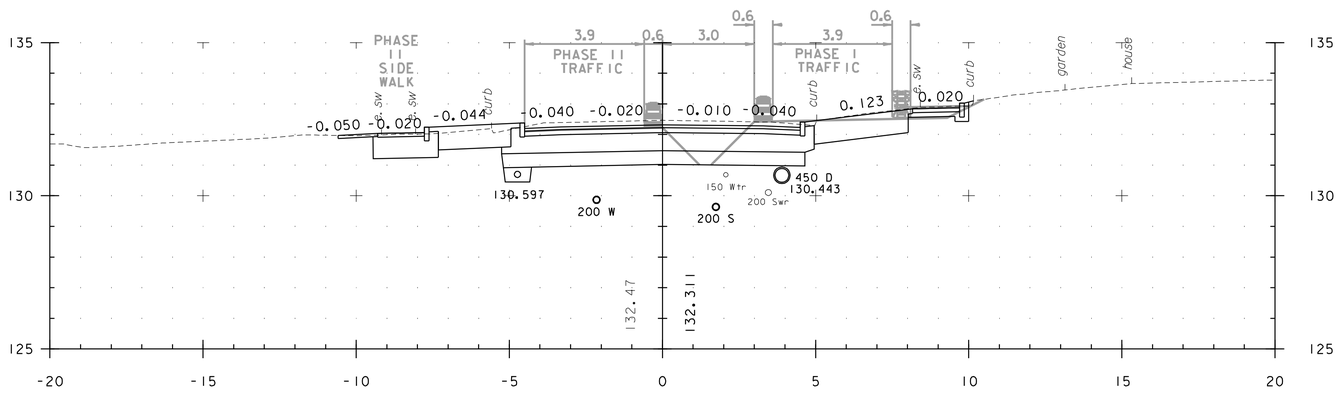
PROJECT NAME:	BRANDON
PROJECT NUMBER:	NH 019-3(496)
FILE NAME: zb008s6-xs.dgn	PLOT DATE: 2/23/2017
PROJECT LEADER: C. BEAN	DRAWN BY: N. LEMAY
DESIGNED BY: D. MUNRO	CHECKED BY: D. MUNRO
	SHEET 505 OF 601

CLD 02-0448 MODEL: 30

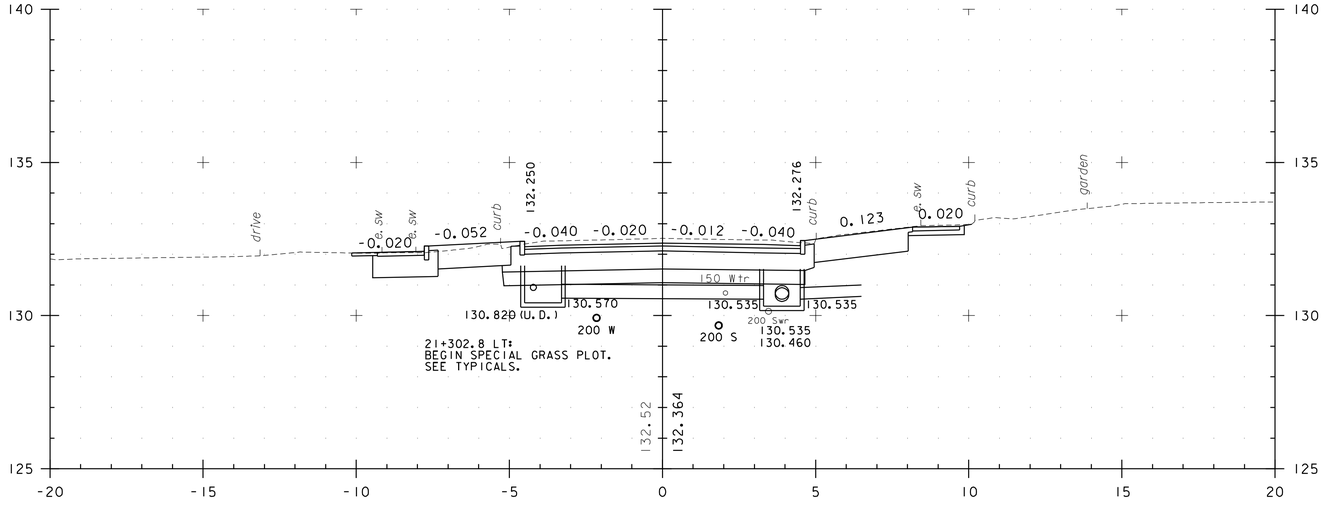
ISSUED FOR CONSTRUCTION



21+322.0
DRIVE LT



21+320.0

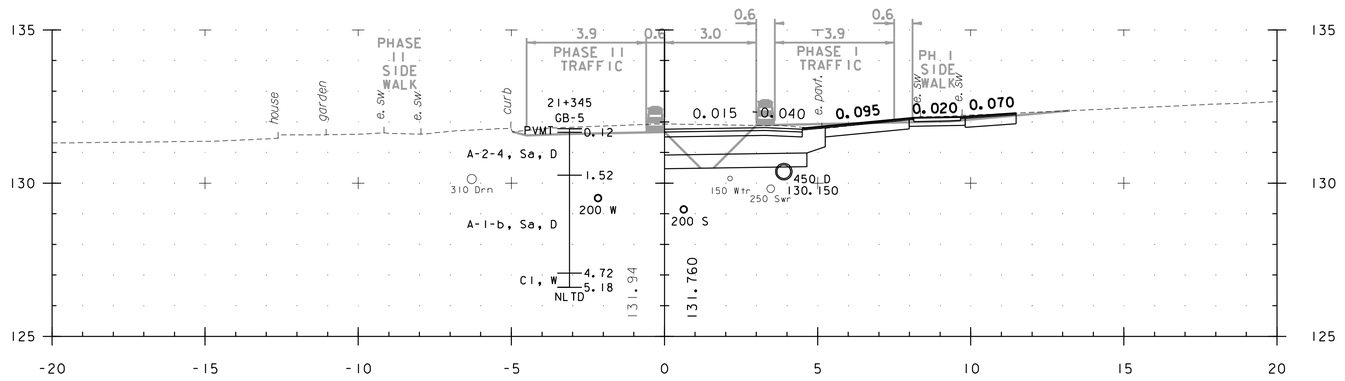


21+318.0

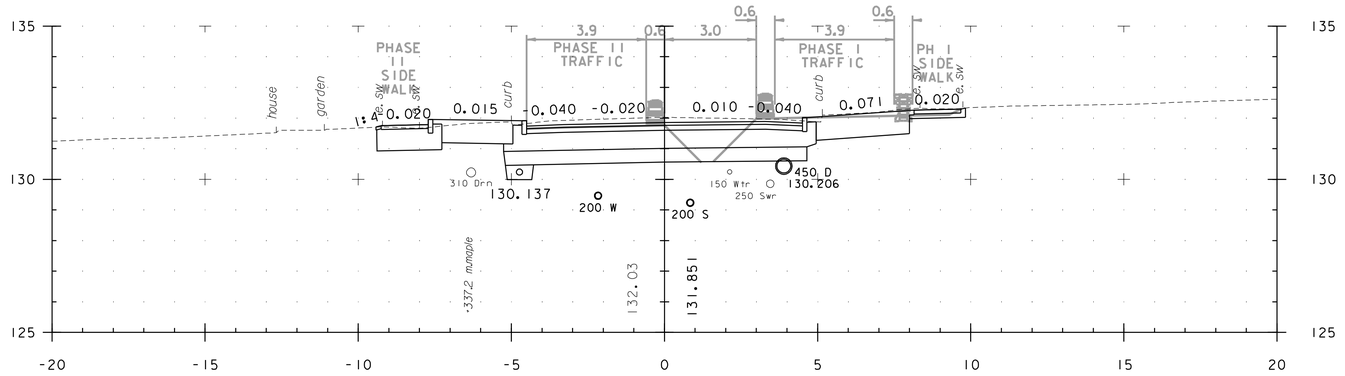
0 2 4 6 8 10
SCALE IN METERS

PROJECT NAME:	BRANDON
PROJECT NUMBER:	NH 019-3(496)
FILE NAME: zb008s6-xs.dgn	PLOT DATE: 2/23/2017
PROJECT LEADER: C. BEAN	DRAWN BY: N. LEMAY
DESIGNED BY: D. MUNRO	CHECKED BY: D. MUNRO
	SHEET 506 OF 601

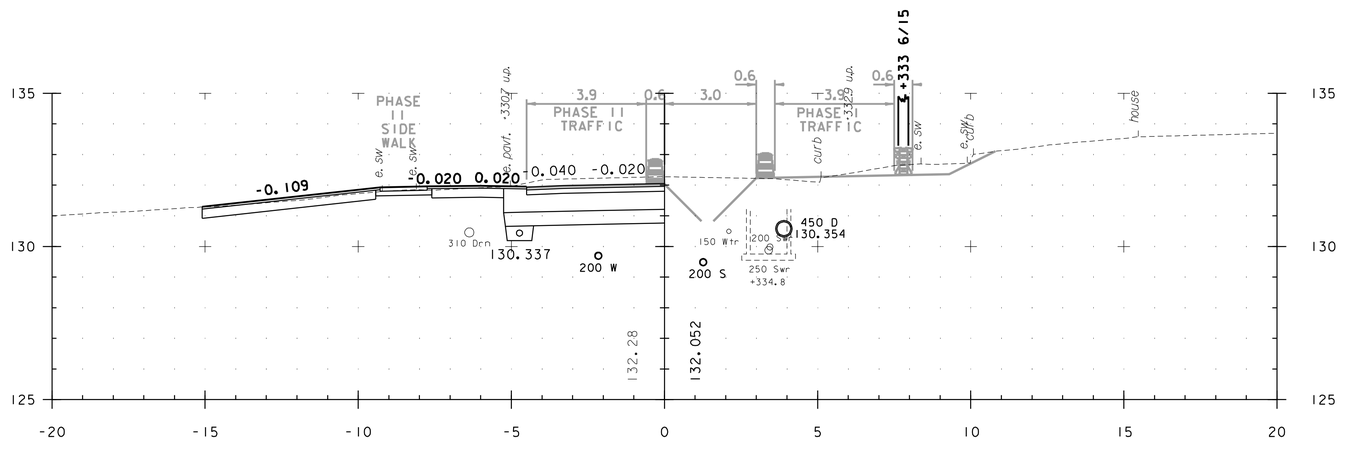
CLD 02-0448 MODEL: 3I



21+344.7
DRIVE RT



21+340.0

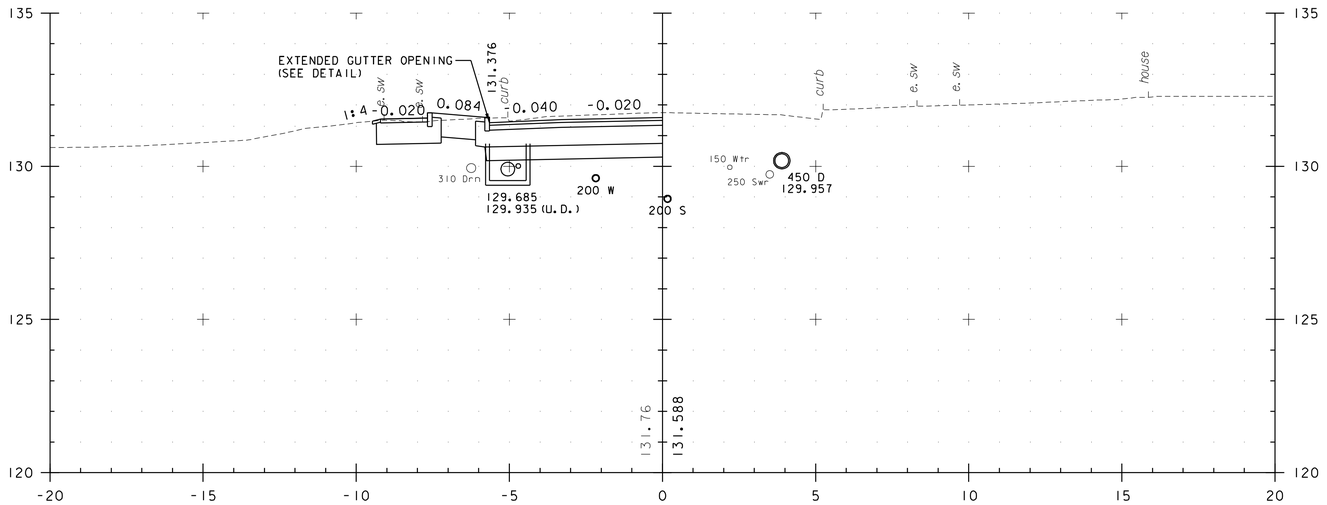


21+330.6
DRIVE LT

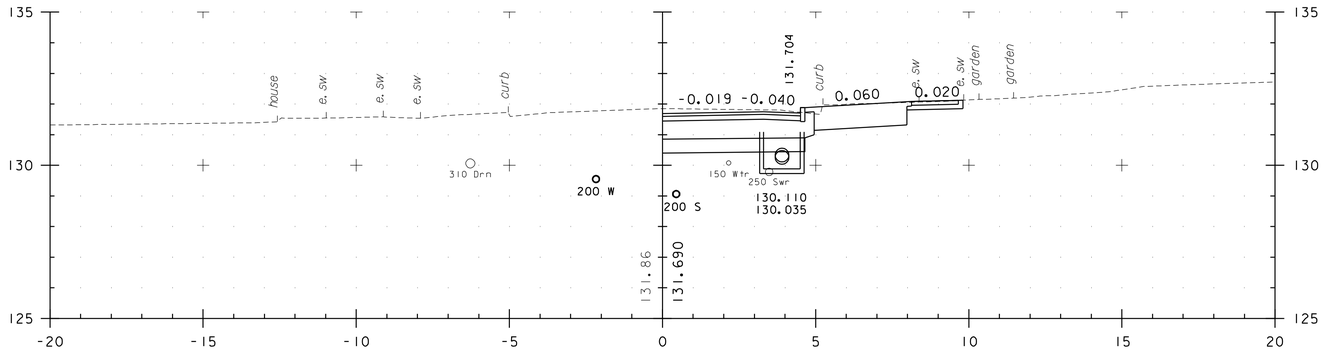
0 2 4 6 8 10
SCALE IN METERS

PROJECT NAME:	BRANDON
PROJECT NUMBER:	NH 019-3(496)
FILE NAME: zb008s6-xs.dgn	PLOT DATE: 2/23/2017
PROJECT LEADER: C. BEAN	DRAWN BY: N. LEMAY
DESIGNED BY: D. MUNRO	CHECKED BY: D. MUNRO
	SHEET 507 OF 601

CLD 02-0448 MODEL: 32



21+355.0

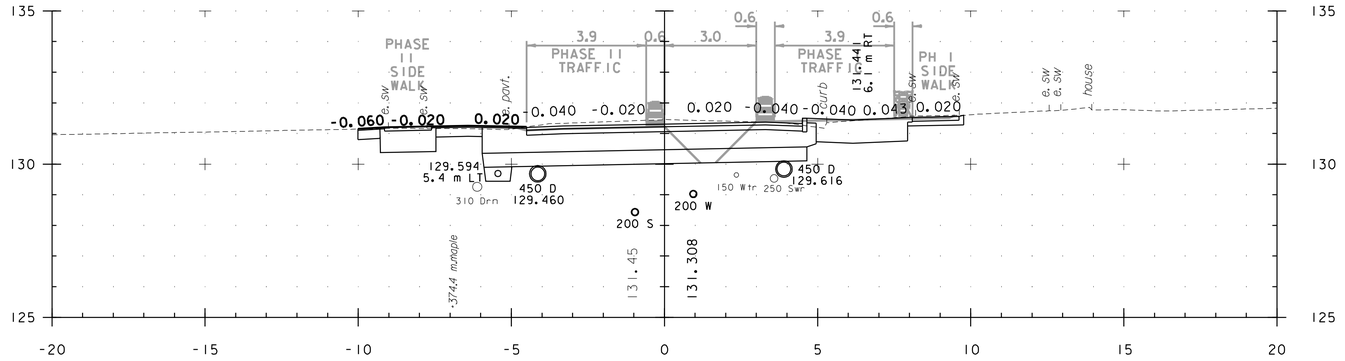


21+348.7

0 2 4 6 8 10
SCALE IN METERS

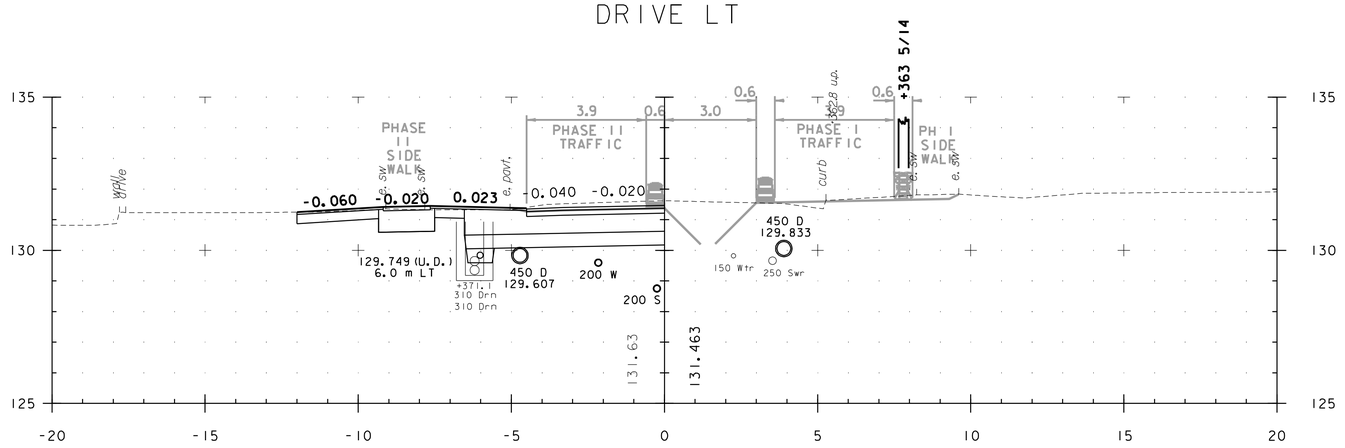
PROJECT NAME:	BRANDON
PROJECT NUMBER:	NH 019-3(496)
FILE NAME: zb008s6-xs.dgn	PLOT DATE: 2/23/2017
PROJECT LEADER: C. BEAN	DRAWN BY: N. LEMAY
DESIGNED BY: D. MUNRO	CHECKED BY: D. MUNRO
	SHEET 508 OF 601

CLD 02-0448 MODEL: 33



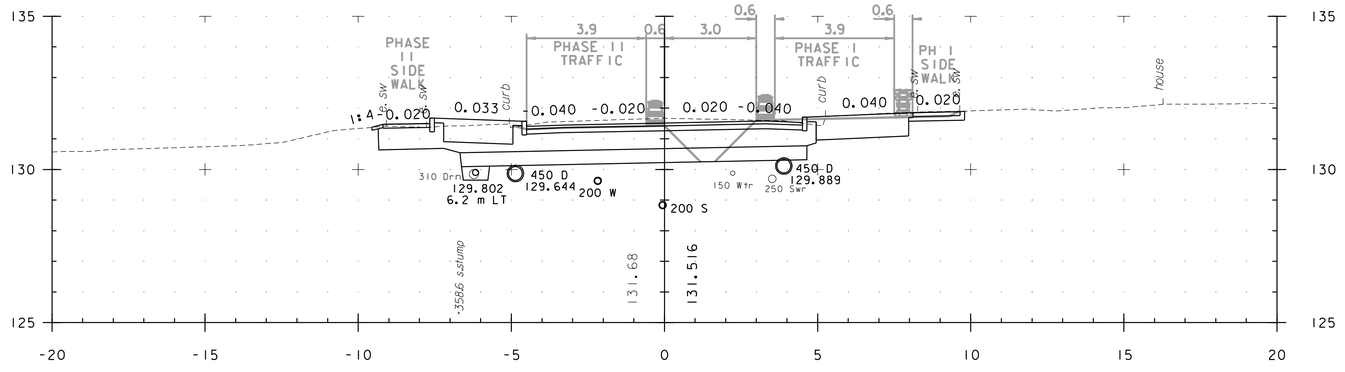
21+380.0

DRIVE LT



21+364.1

DRIVE LT



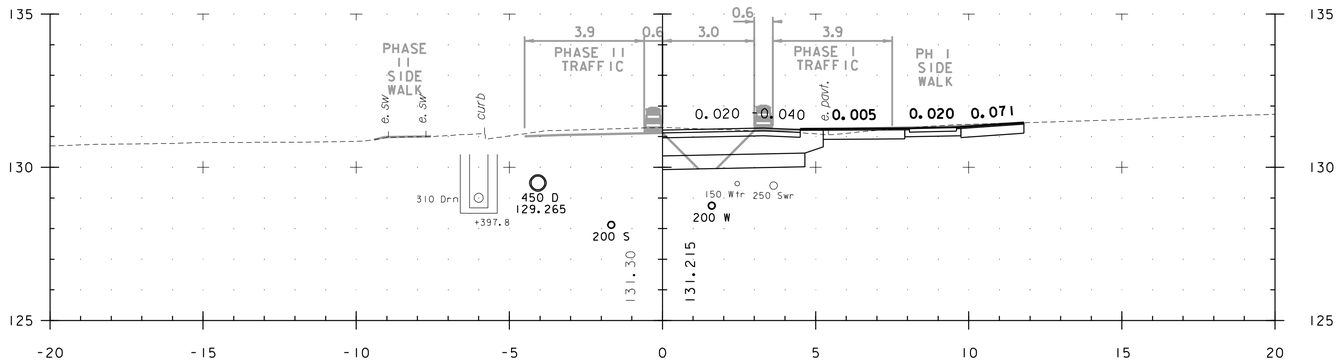
21+360.0

0 2 4 6 8 10

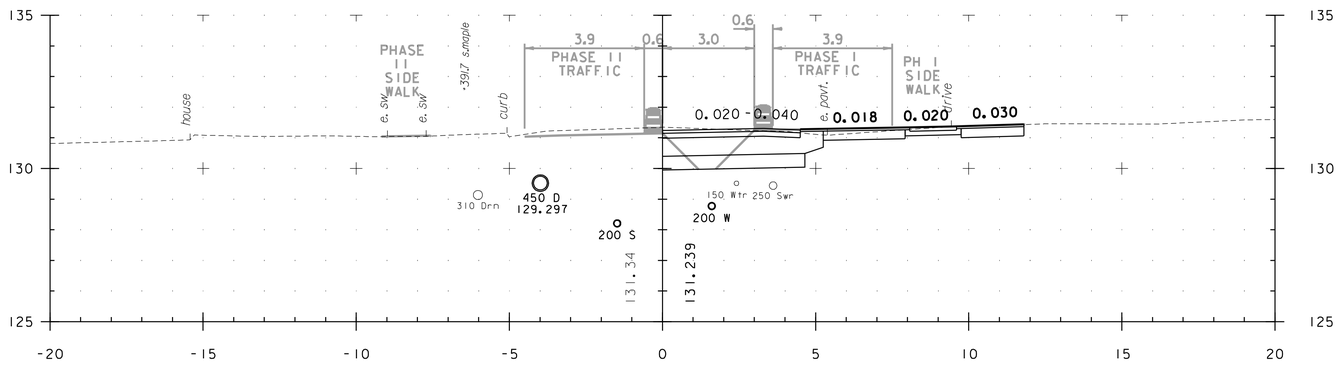
SCALE IN METERS

PROJECT NAME:	BRANDON
PROJECT NUMBER:	NH 019-3(496)
FILE NAME: zb008s6-xs.dgn	PLOT DATE: 2/23/2017
PROJECT LEADER: C. BEAN	DRAWN BY: N. LEMAY
DESIGNED BY: D. MUNRO	CHECKED BY: D. MUNRO
	SHEET 509 OF 601

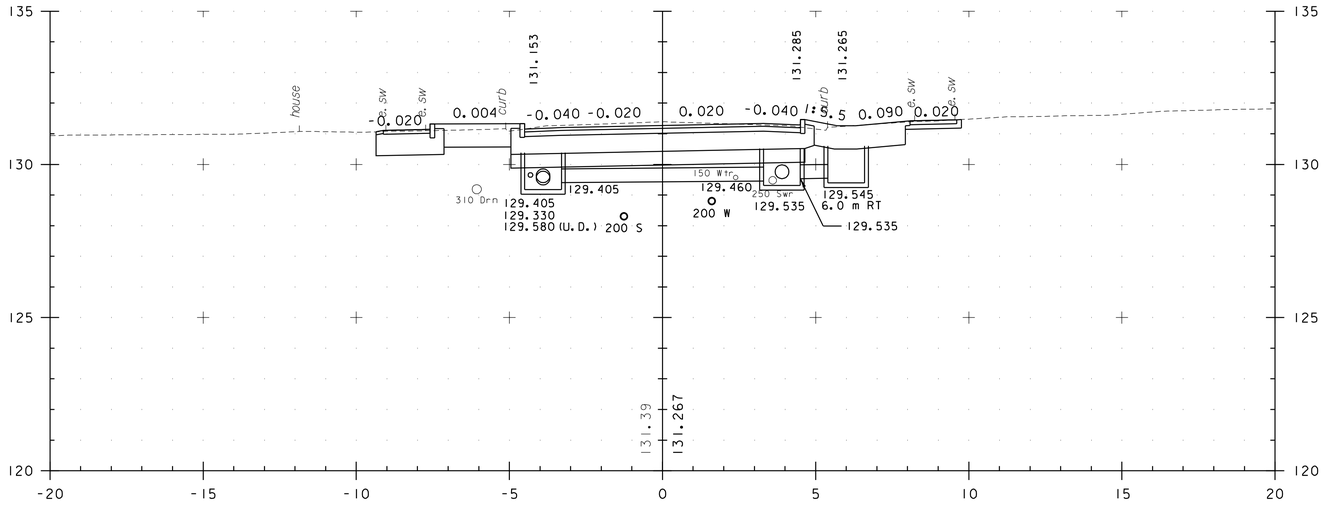
CLD 02-0448 MODEL: 34



21+395.7
DRIVE RT



21+391.4
DRIVE RT

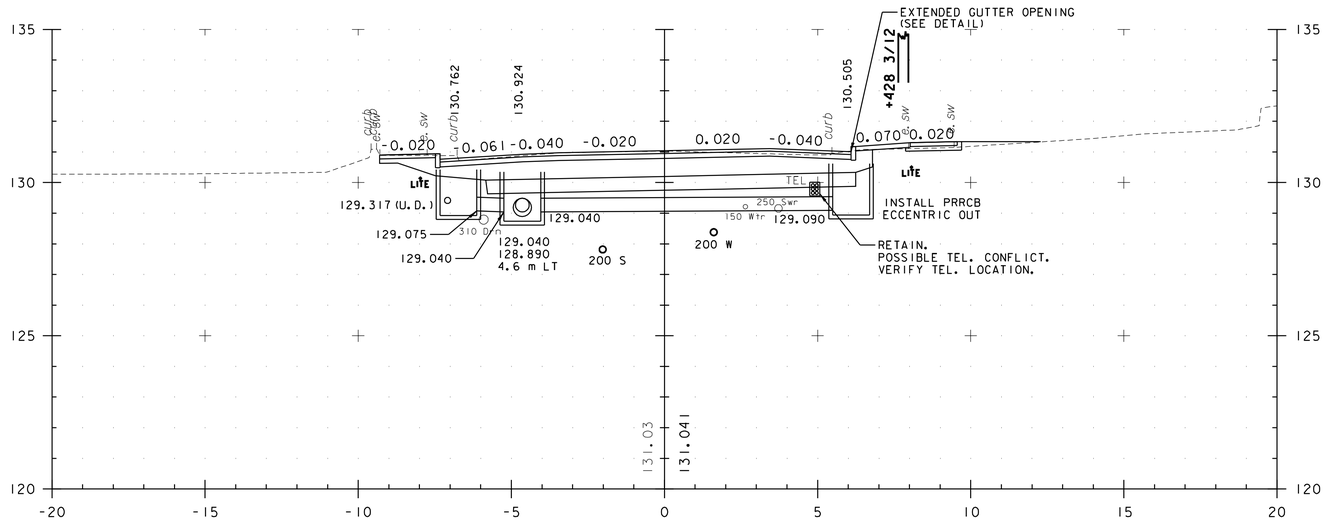


21+386.5

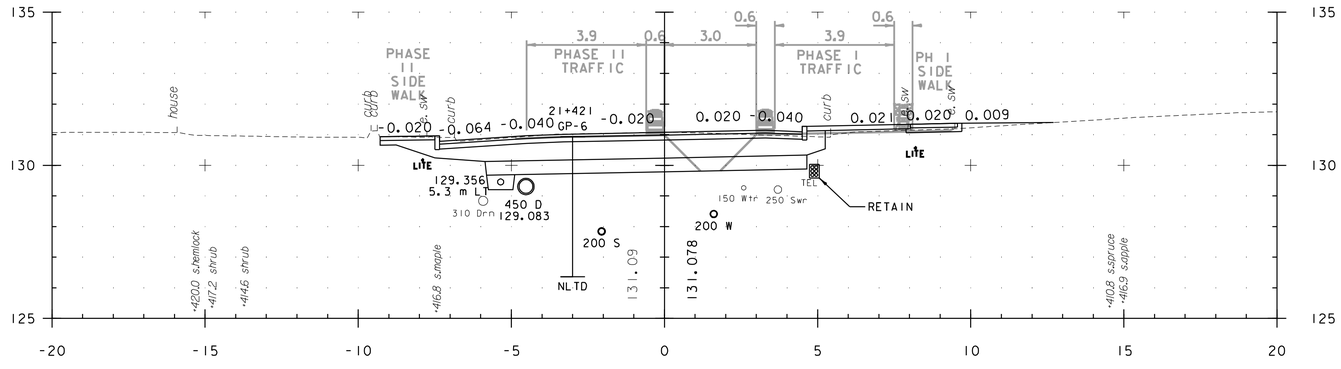
0 2 4 6 8 10
SCALE IN METERS

PROJECT NAME:	BRANDON
PROJECT NUMBER:	NH 019-3(496)
FILE NAME: zb008s6-xs.dgn	PLOT DATE: 2/23/2017
PROJECT LEADER: C. BEAN	DRAWN BY: N. LEMAY
DESIGNED BY: D. MUNRO	CHECKED BY: D. MUNRO
	SHEET 510 OF 601

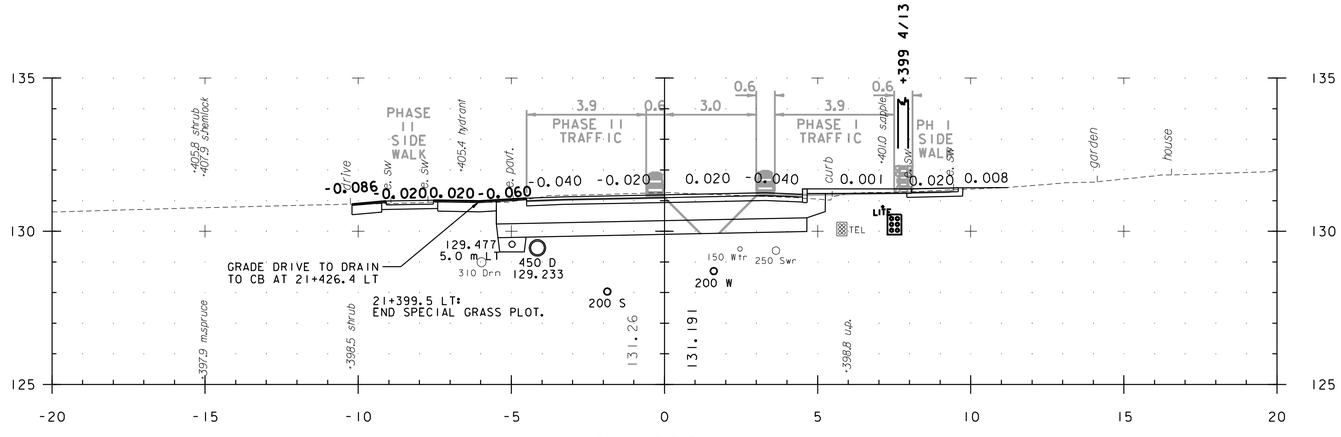
CLD 02-0448 MODEL: 35



21+426.4



21+420.0



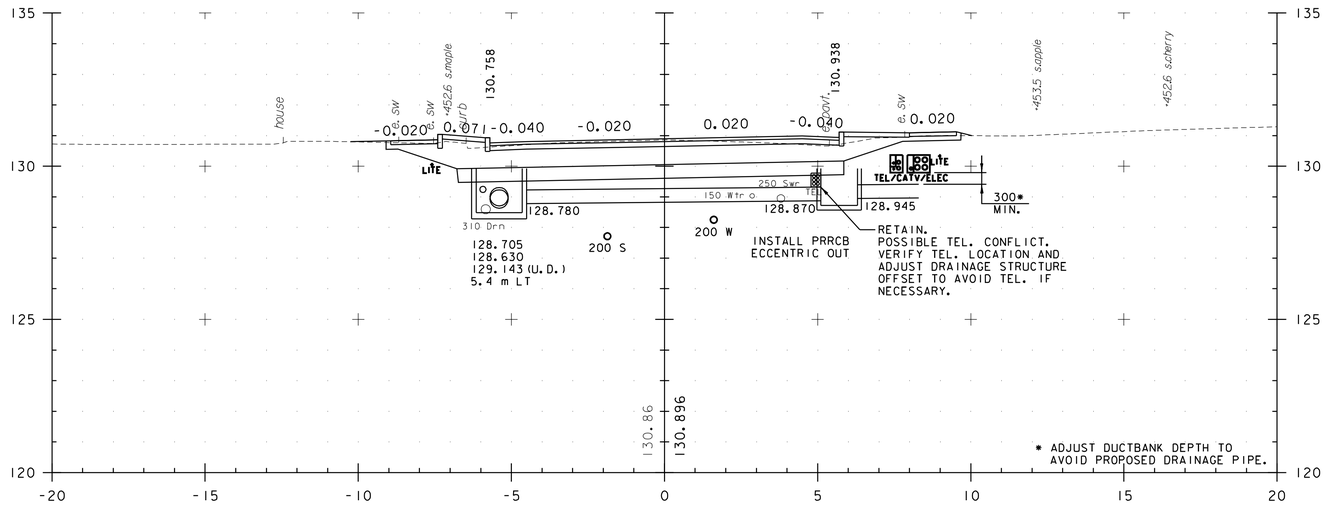
21+400.0
DRIVE LT

0 2 4 6 8 10
SCALE IN METERS

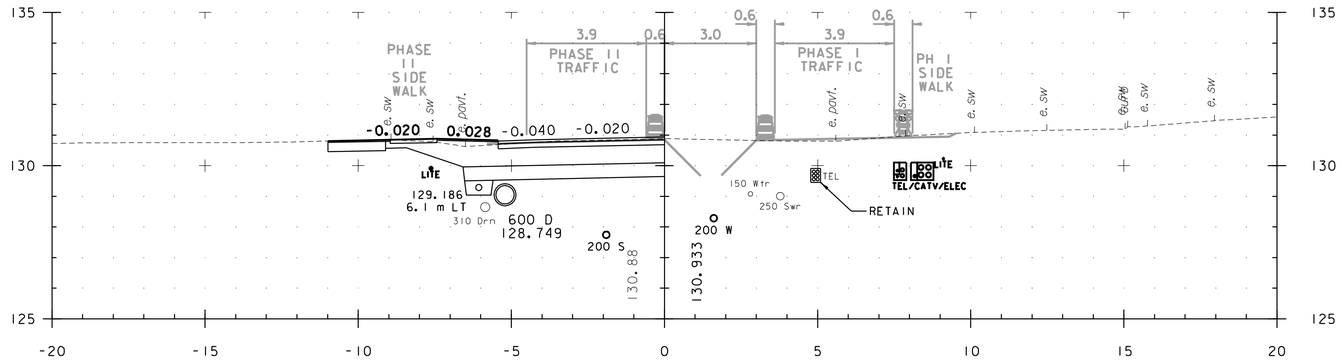
PROJECT NAME:	BRANDON
PROJECT NUMBER:	NH 019-3(496)
FILE NAME: zb008s6-xs.dgn	PLOT DATE: 2/23/2017
PROJECT LEADER: C. BEAN	DRAWN BY: N. LEMAY
DESIGNED BY: D. MUNRO	CHECKED BY: D. MUNRO
	SHEET 511 OF 601

CLD 02-0448 MODEL: 36

ISSUED FOR CONSTRUCTION

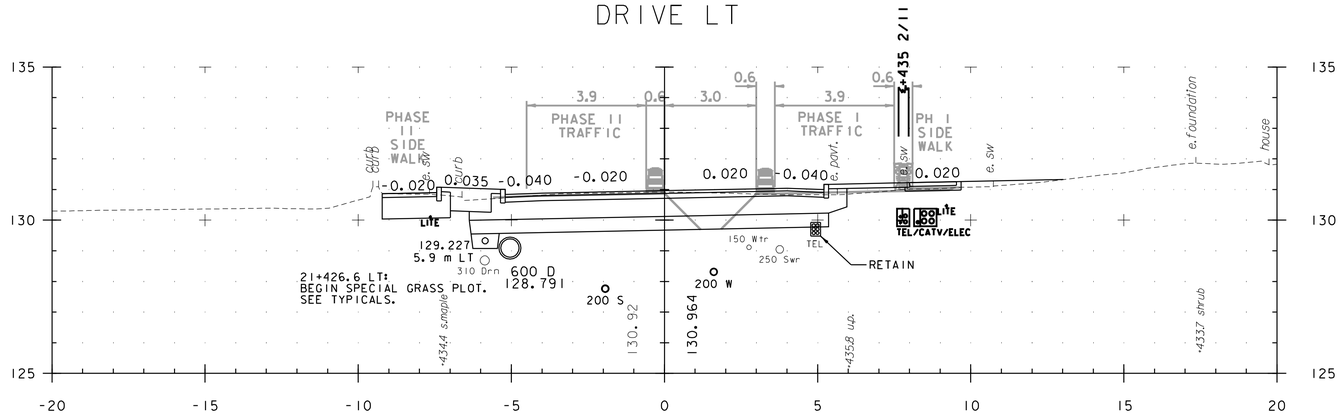


21+452.0



21+445.5

DRIVE LT

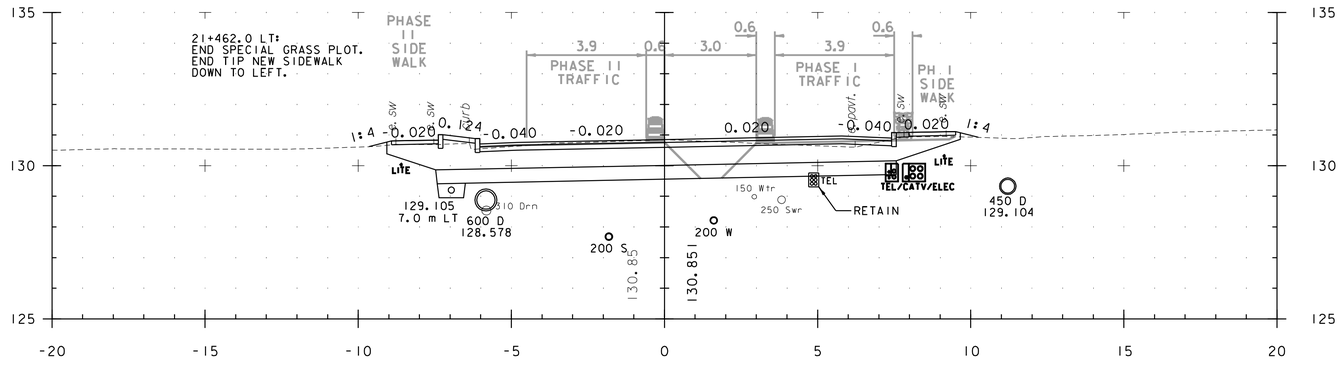


21+440.0

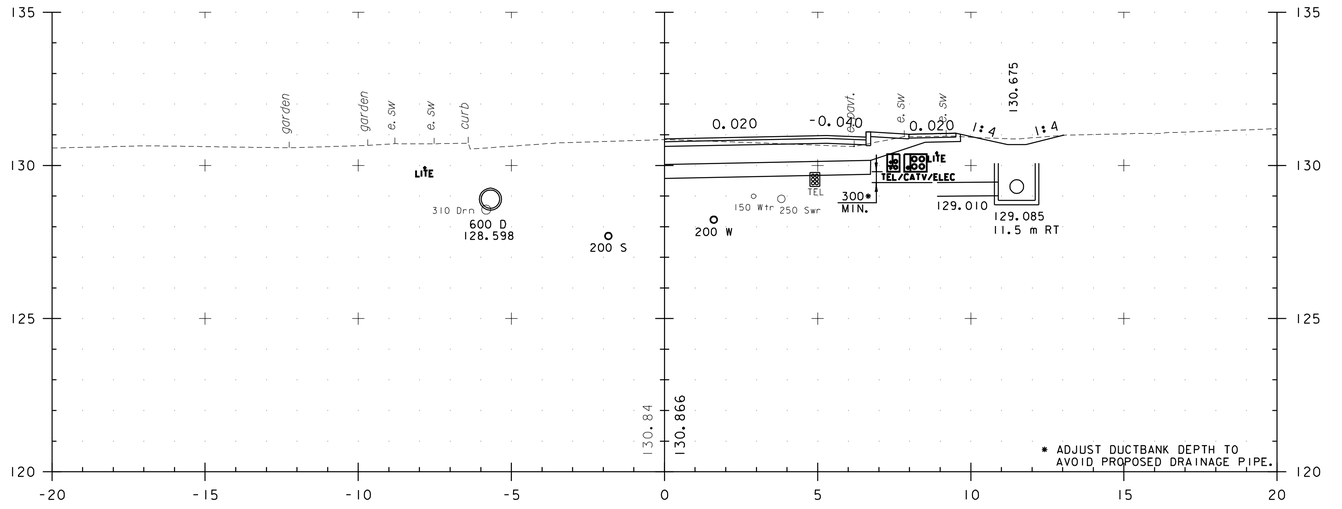
0 2 4 6 8 10
SCALE IN METERS

PROJECT NAME:	BRANDON
PROJECT NUMBER:	NH 019-3(496)
FILE NAME: zb008s6-xs.dgn	PLOT DATE: 2/23/2017
PROJECT LEADER: C. BEAN	DRAWN BY: N. LEMAY
DESIGNED BY: D. MUNRO	CHECKED BY: D. MUNRO
	SHEET 512 OF 601

CLD 02-0448 MODEL: 37



21+460.0



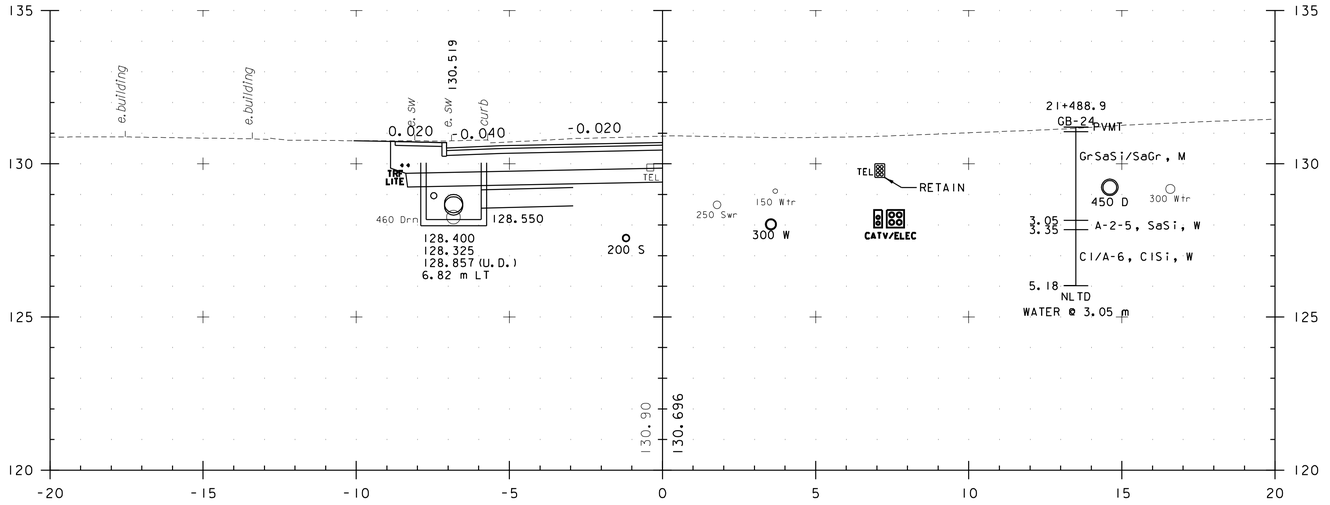
21+457.3

0 2 4 6 8 10
SCALE IN METERS

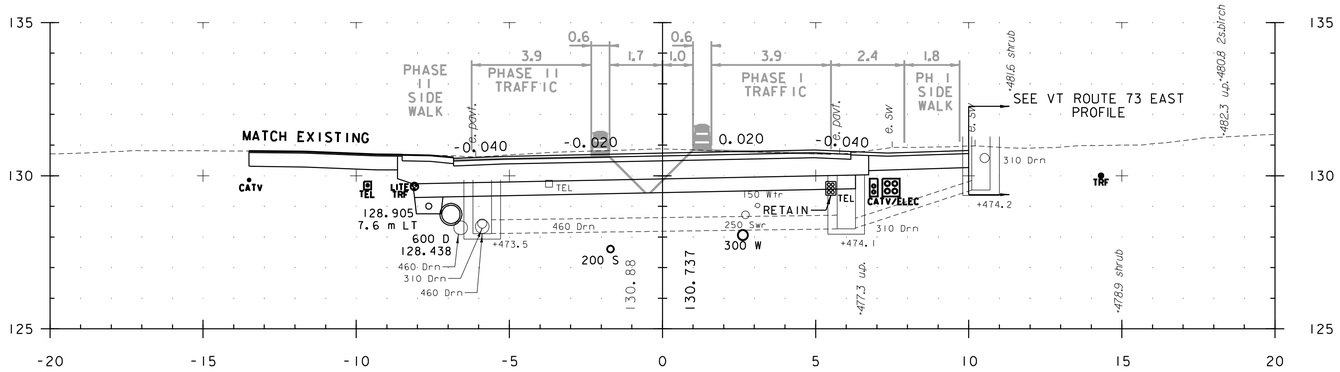
PROJECT NAME:	BRANDON
PROJECT NUMBER:	NH 019-3(496)
FILE NAME: zb008s6-xs.dgn	PLOT DATE: 2/23/2017
PROJECT LEADER: C. BEAN	DRAWN BY: N. LEMAY
DESIGNED BY: D. MUNRO	CHECKED BY: D. MUNRO
	SHEET 513 OF 601

CLD 02-0448 MODEL: 38

ISSUED FOR CONSTRUCTION

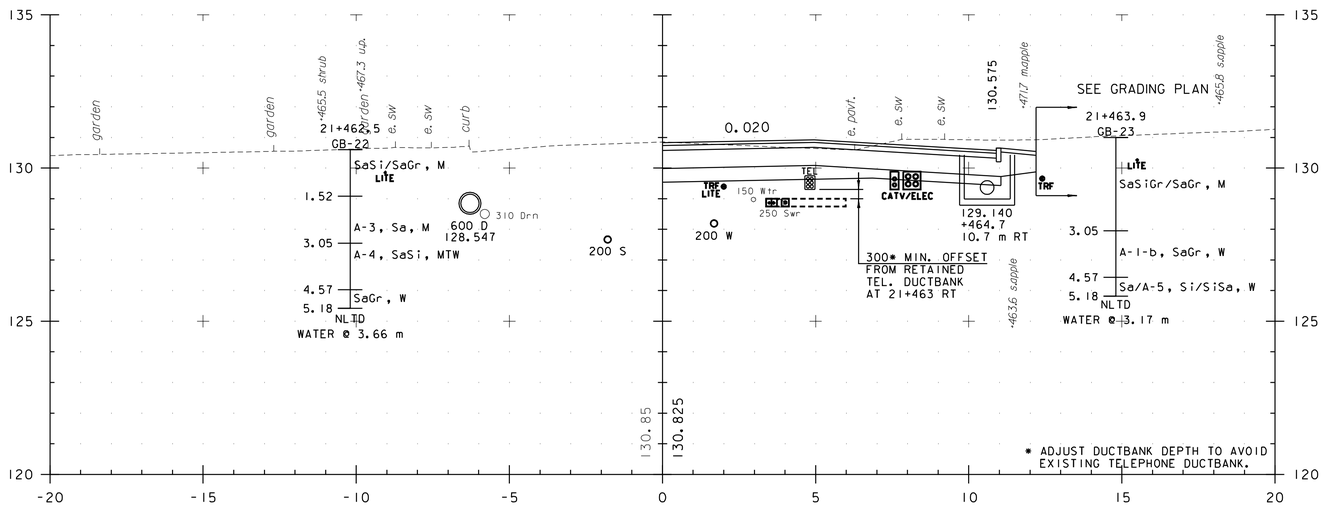


21+487.2



21+480.0

DRIVE LT



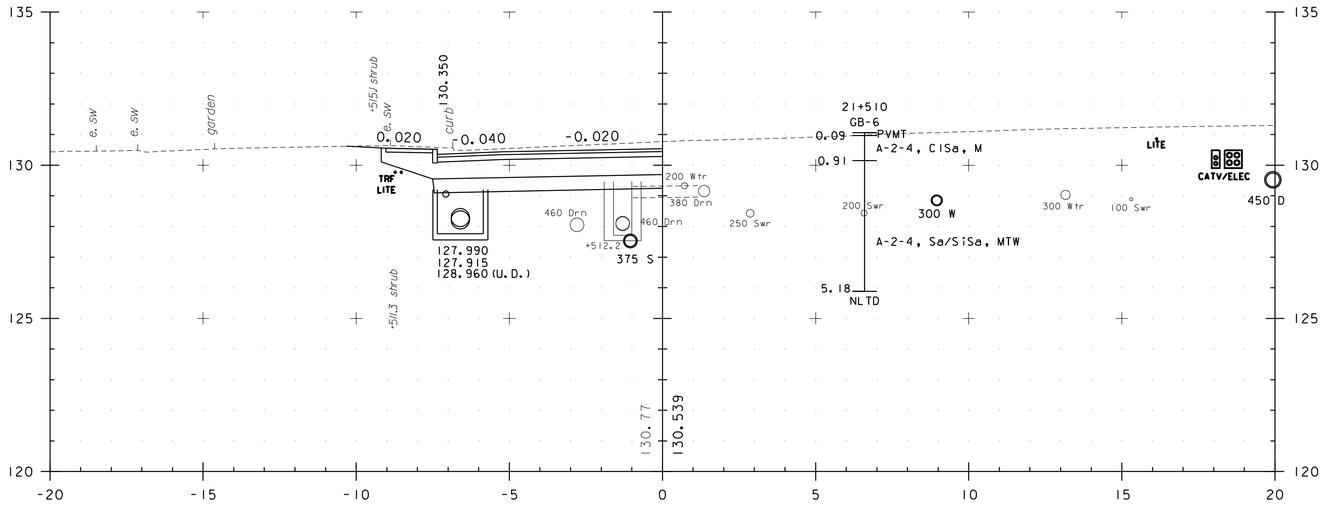
21+464.5

0 2 4 6 8 10

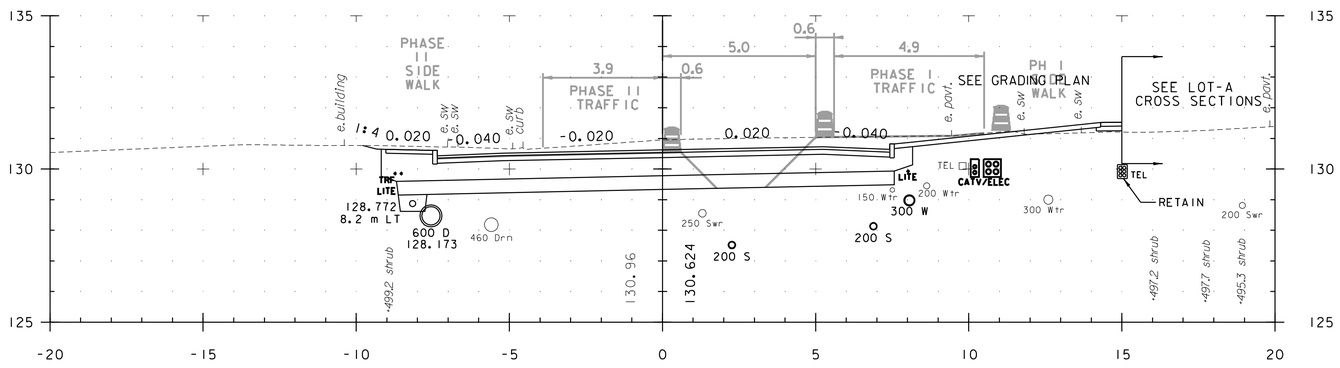
SCALE IN METERS

CLD 02-0448 MODEL: 39

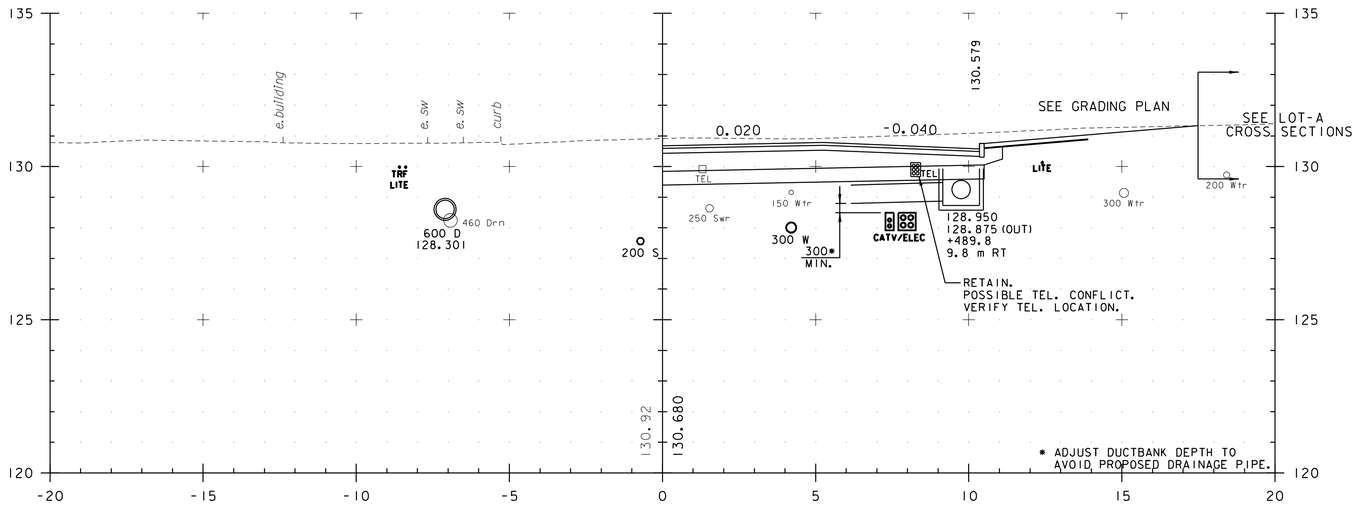
PROJECT NAME:	BRANDON
PROJECT NUMBER:	NH 019-3(496)
FILE NAME: zb008s6-xs.dgn	PLOT DATE: 2/23/2017
PROJECT LEADER: C. BEAN	DRAWN BY: N. LEMAY
DESIGNED BY: D. MUNRO	CHECKED BY: D. MUNRO
	SHEET 514 OF 601



21+515.0



21+500.0



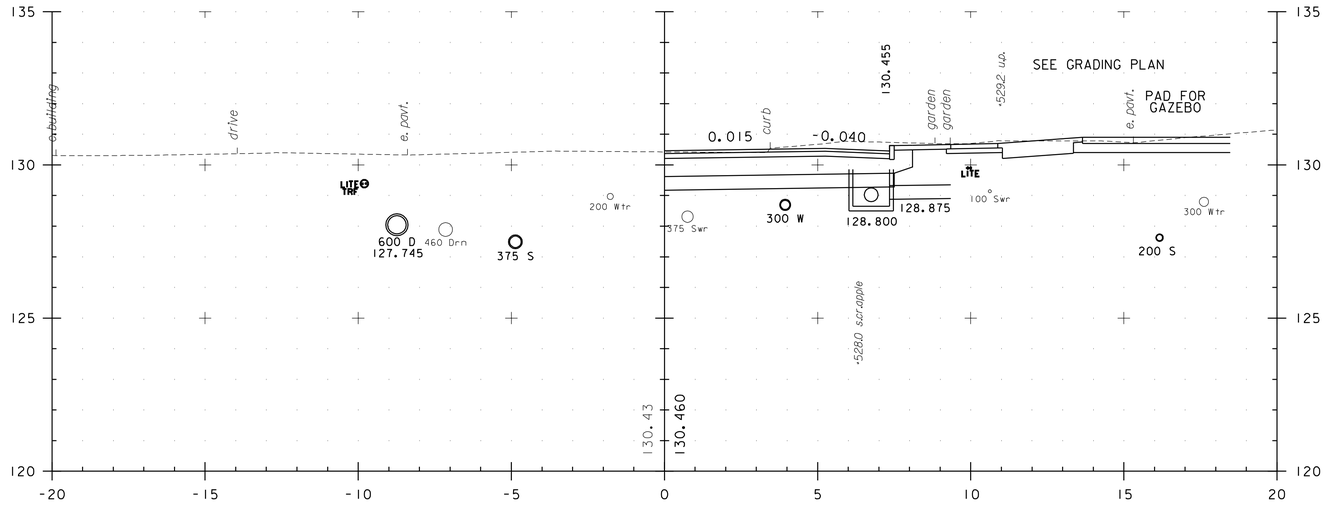
21+490.1

0 2 4 6 8 10
SCALE IN METERS

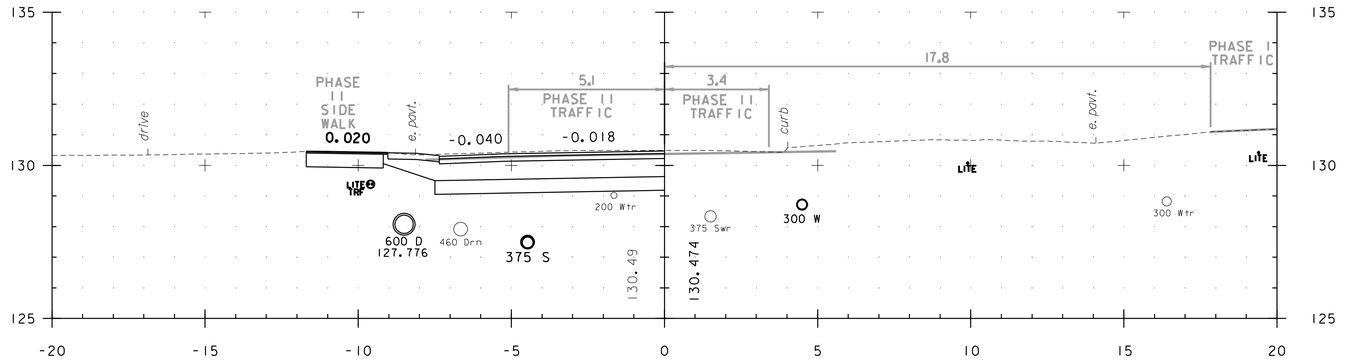
PROJECT NAME:	BRANDON
PROJECT NUMBER:	NH 019-3(496)
FILE NAME: zb008s6-xs.dgn	PLOT DATE: 2/23/2017
PROJECT LEADER: C. BEAN	DRAWN BY: N. LEMAY
DESIGNED BY: D. MUNRO	CHECKED BY: D. MUNRO
	SHEET 515 OF 601

CLD 02-0448 MODEL: 40

ISSUED FOR CONSTRUCTION

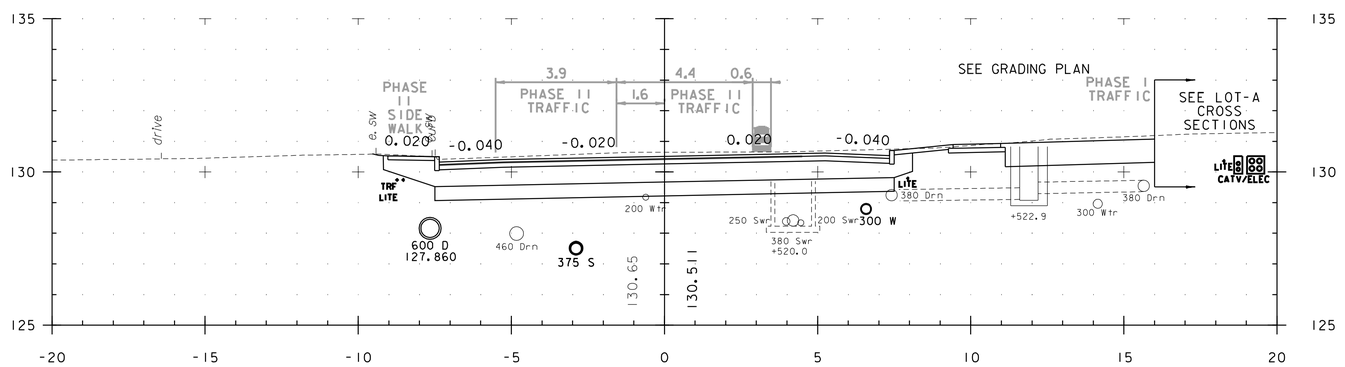


21+529.0



21+526.5

DRIVE LT



21+520.0

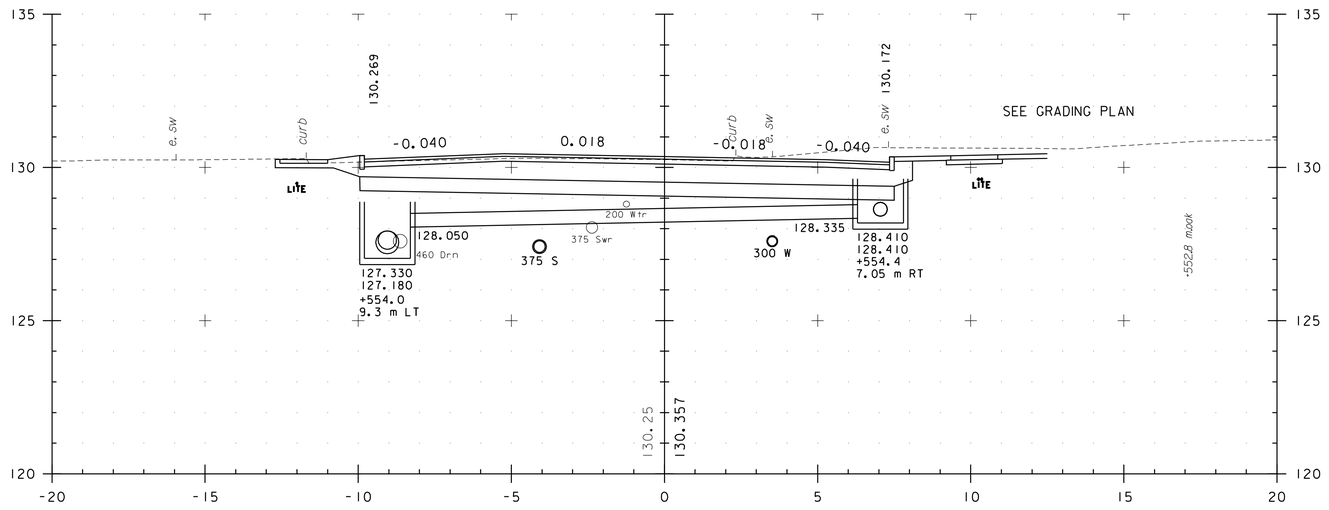
0 2 4 6 8 10
SCALE IN METERS

PROJECT NAME: BRANDON
PROJECT NUMBER: NH 019-3(496)

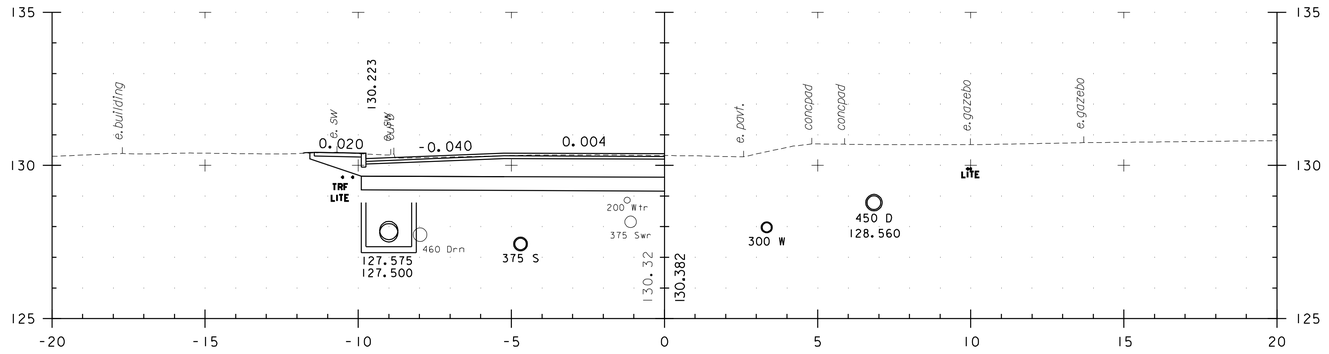
FILE NAME: zb008s6-xs.dgn
PROJECT LEADER: C. BEAN
DESIGNED BY: D. MUNRO
PLOT DATE: 2/23/2017
DRAWN BY: N. LEMAY
CHECKED BY: D. MUNRO
SHEET 516 OF 601

CLD 02-0448 MODEL: 41

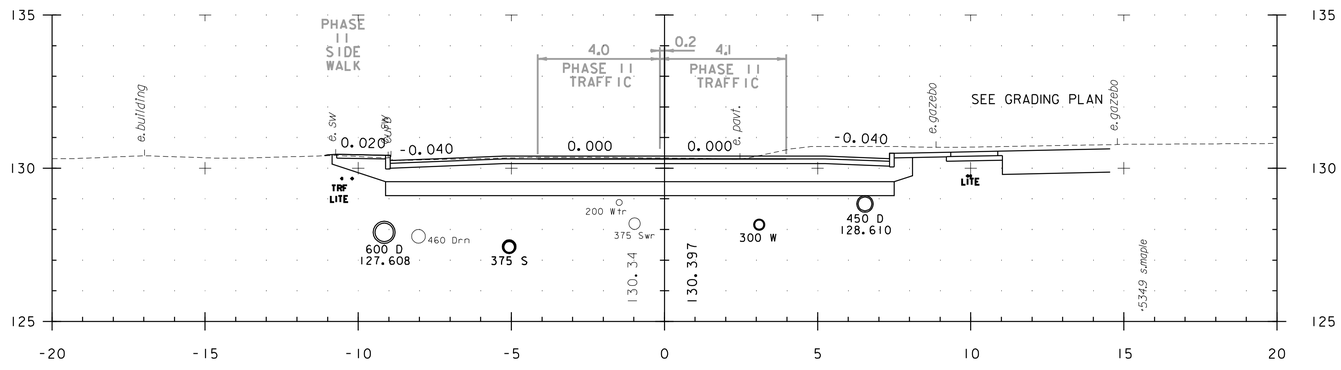
ISSUED FOR CONSTRUCTION



21+553.7



21+543.0



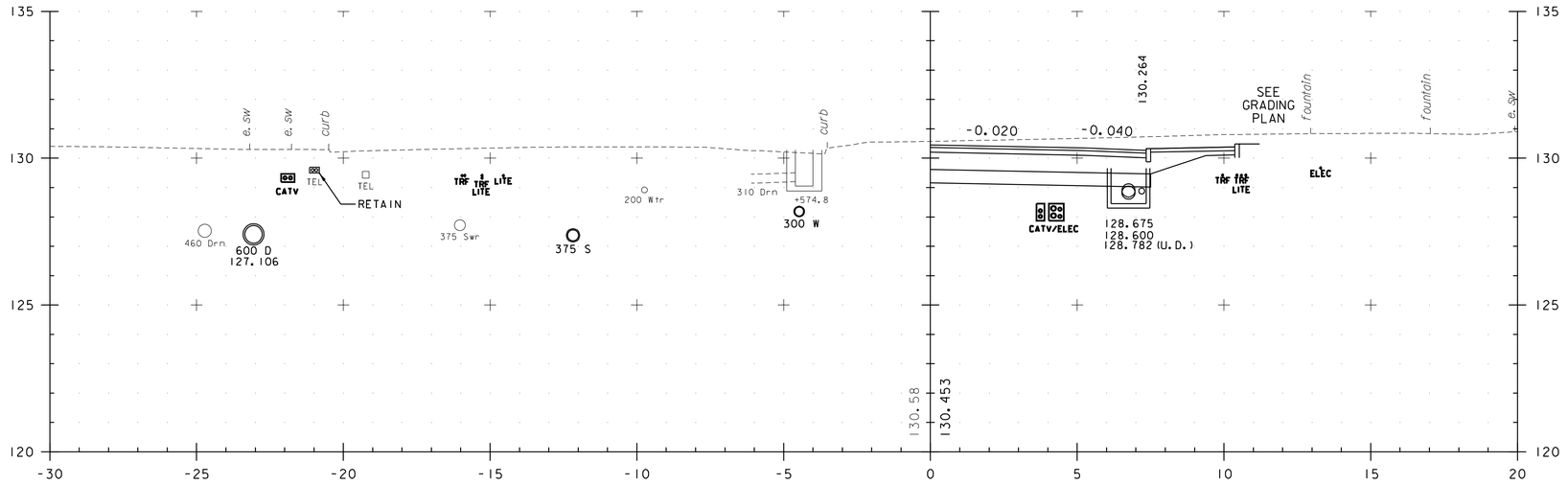
21+540.0

0 2 4 6 8 10
SCALE IN METERS

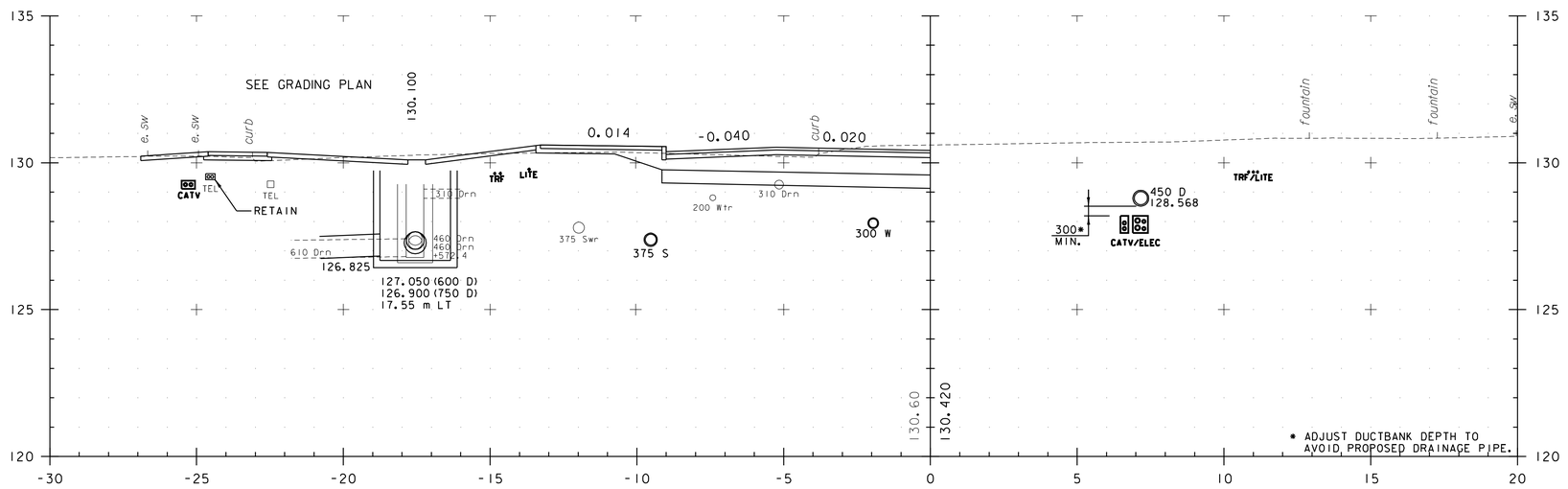
PROJECT NAME:	BRANDON
PROJECT NUMBER:	NH 019-3(496)
FILE NAME: zb008s6-xs.dgn	PLOT DATE: 2/23/2017
PROJECT LEADER: C. BEAN	DRAWN BY: N. LEMAY
DESIGNED BY: D. MUNRO	CHECKED BY: D. MUNRO
	SHEET 517 OF 601

CLD 02-0448 MODEL: 42

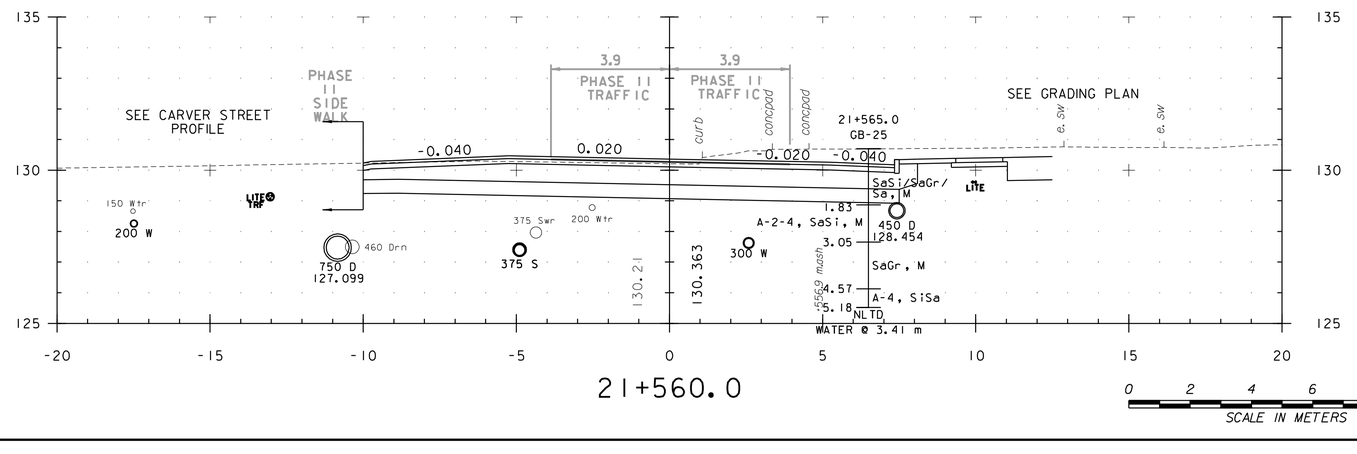
ISSUED FOR CONSTRUCTION



21+576.5



21+572.4



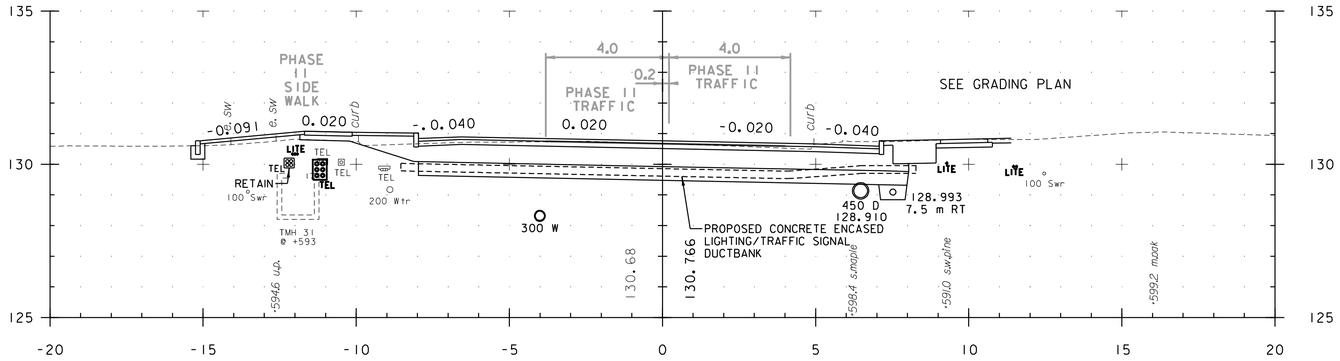
21+560.0

0 2 4 6 8 10
SCALE IN METERS

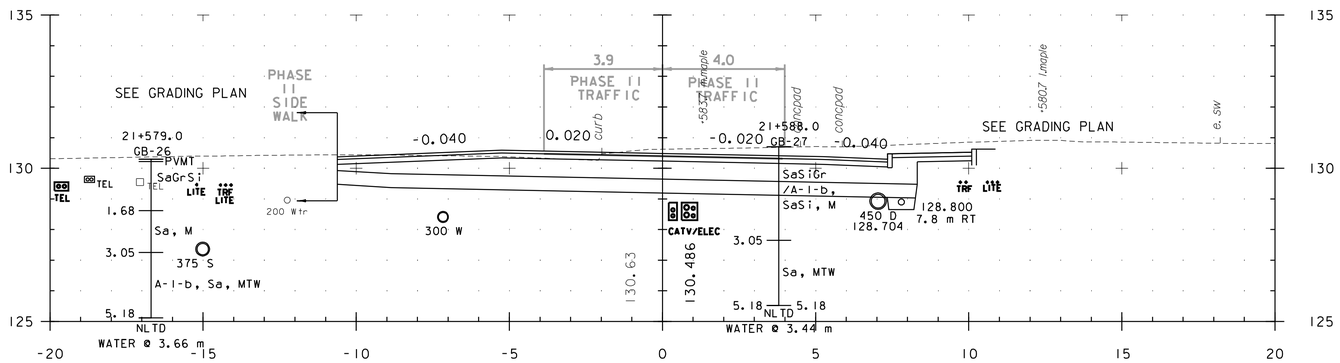
PROJECT NAME:	BRANDON
PROJECT NUMBER:	NH 019-3(496)
FILE NAME: zb008s6-xs.dgn	PLOT DATE: 2/23/2017
PROJECT LEADER: C. BEAN	DRAWN BY: N. LEMAY
DESIGNED BY: D. MUNRO	CHECKED BY: D. MUNRO
	SHEET 518 OF 601

CLD 02-0448 MODEL: 43

ISSUED FOR CONSTRUCTION



21+600.0



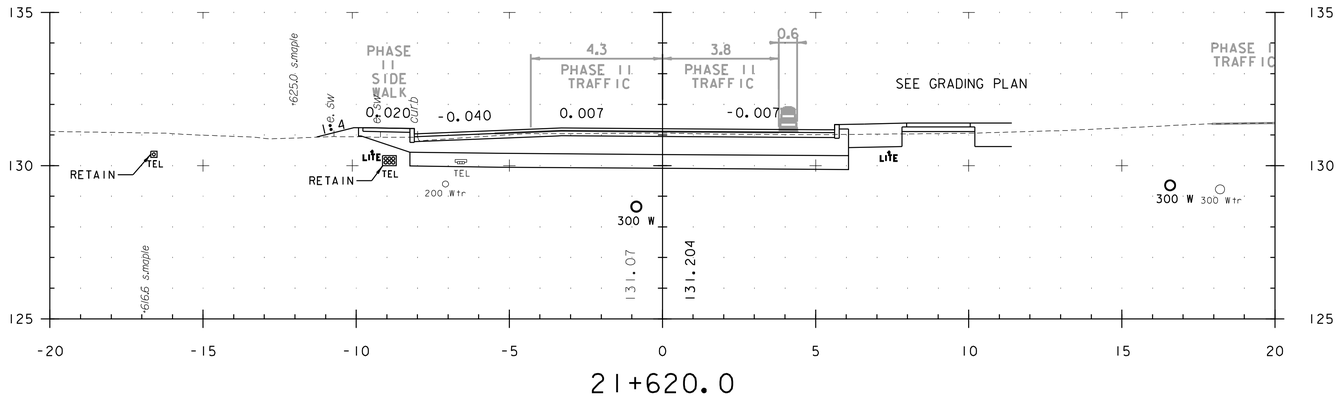
21+580.0

0 2 4 6 8 10
SCALE IN METERS

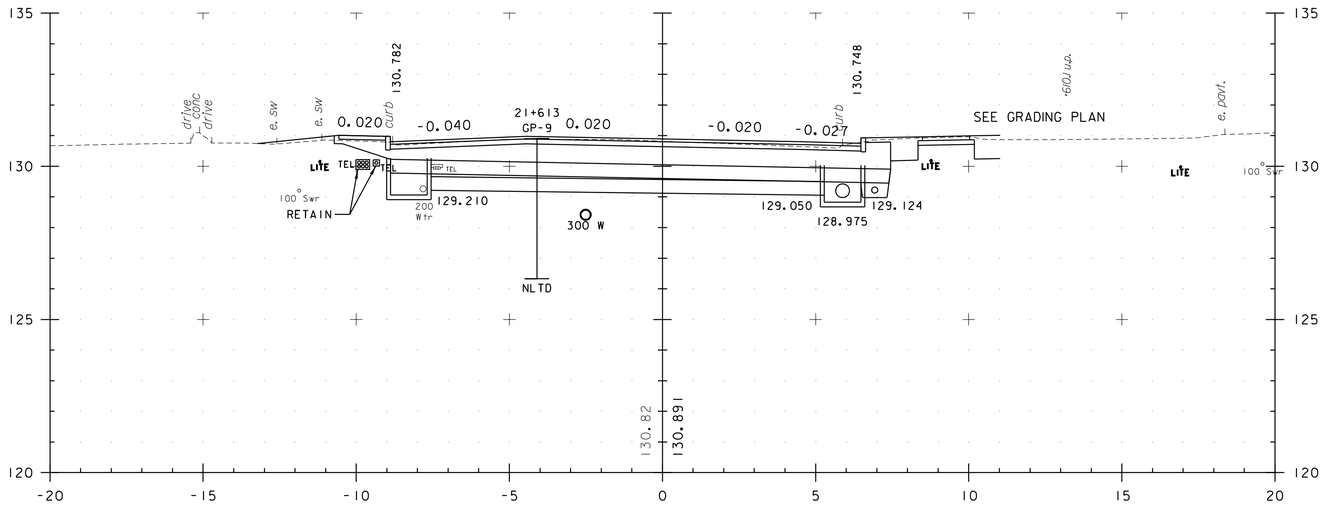
PROJECT NAME:	BRANDON
PROJECT NUMBER:	NH 019-3(496)
FILE NAME: zb008s6-xs.dgn	PLOT DATE: 2/23/2017
PROJECT LEADER: C. BEAN	DRAWN BY: N. LEMAY
DESIGNED BY: D. MUNRO	CHECKED BY: D. MUNRO
	SHEET 519 OF 601

CLD 02-0448 MODEL: 44

ISSUED FOR CONSTRUCTION



21+620.0



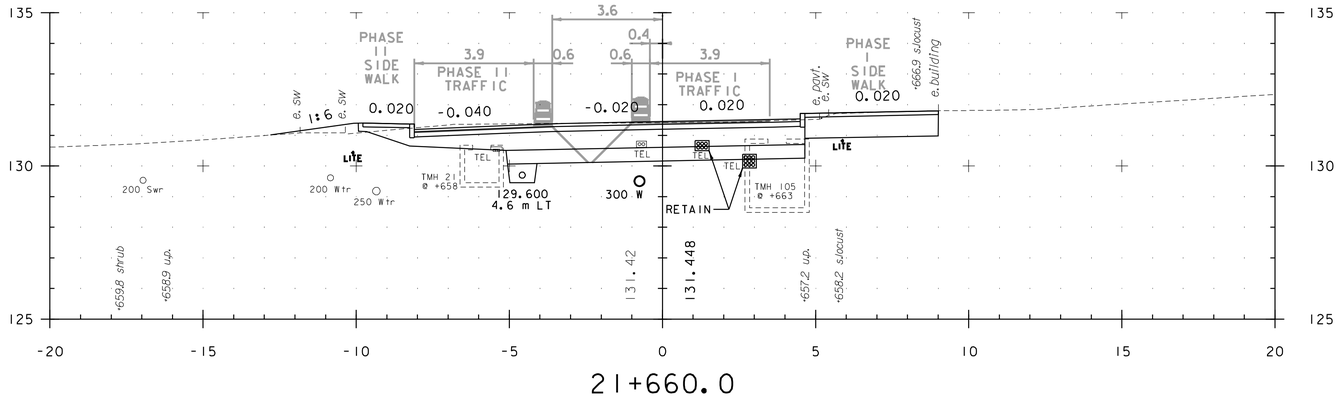
21+606.5

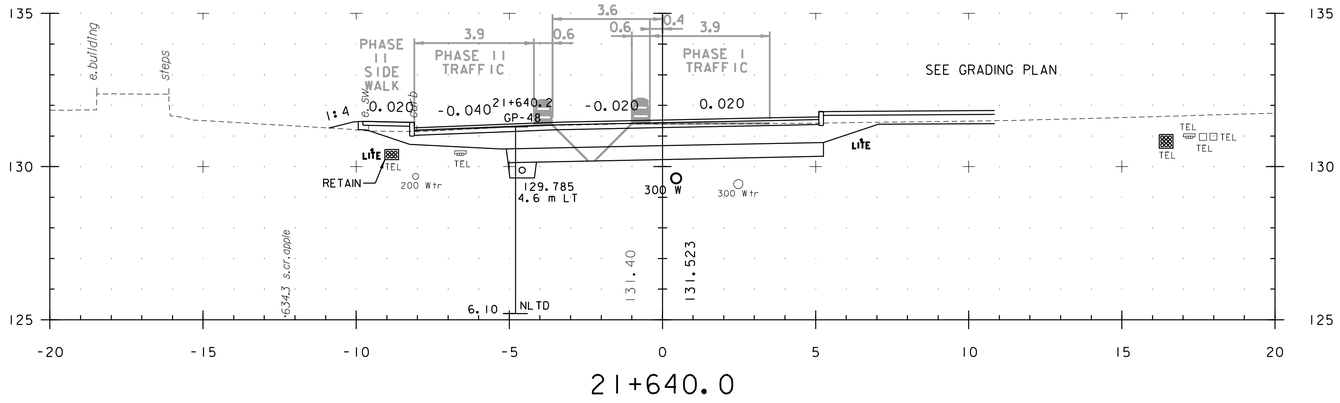
0 2 4 6 8 10
SCALE IN METERS

PROJECT NAME:	BRANDON
PROJECT NUMBER:	NH 019-3(496)
FILE NAME: zb008s6-xs.dgn	PLOT DATE: 2/23/2017
PROJECT LEADER: C. BEAN	DRAWN BY: N. LEMAY
DESIGNED BY: D. MUNRO	CHECKED BY: D. MUNRO
	SHEET 520 OF 601

CLD 02-0448 MODEL: 45

ISSUED FOR CONSTRUCTION

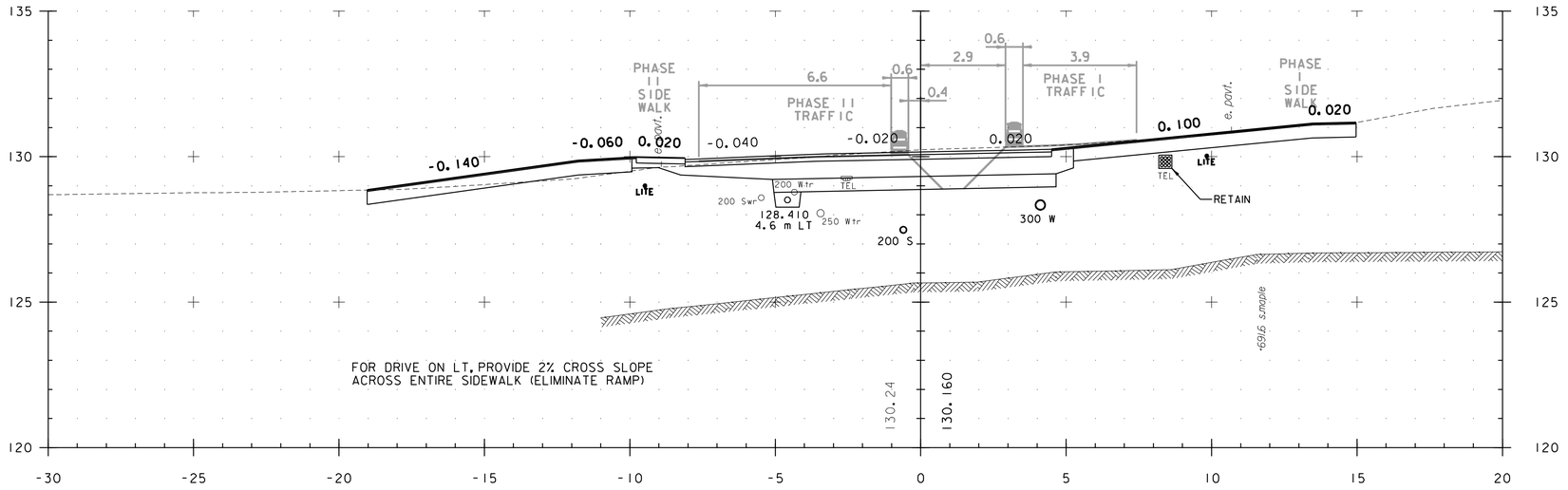




0 2 4 6 8 10
SCALE IN METERS

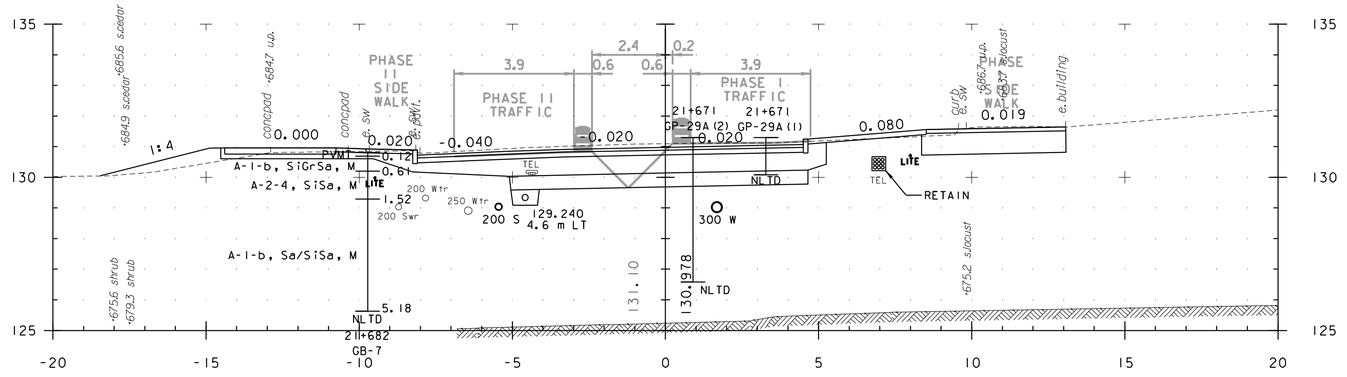
PROJECT NAME:	BRANDON
PROJECT NUMBER:	NH 019-3(496)
FILE NAME: zb008s6-xs.dgn	PLOT DATE: 2/23/2017
PROJECT LEADER: C. BEAN	DRAWN BY: N. LEMAY
DESIGNED BY: D. MUNRO	CHECKED BY: D. MUNRO
	SHEET 521 OF 601

CLD 02-0448 MODEL: 46



21+700.0

DRIVE LT/RT



21+680.0

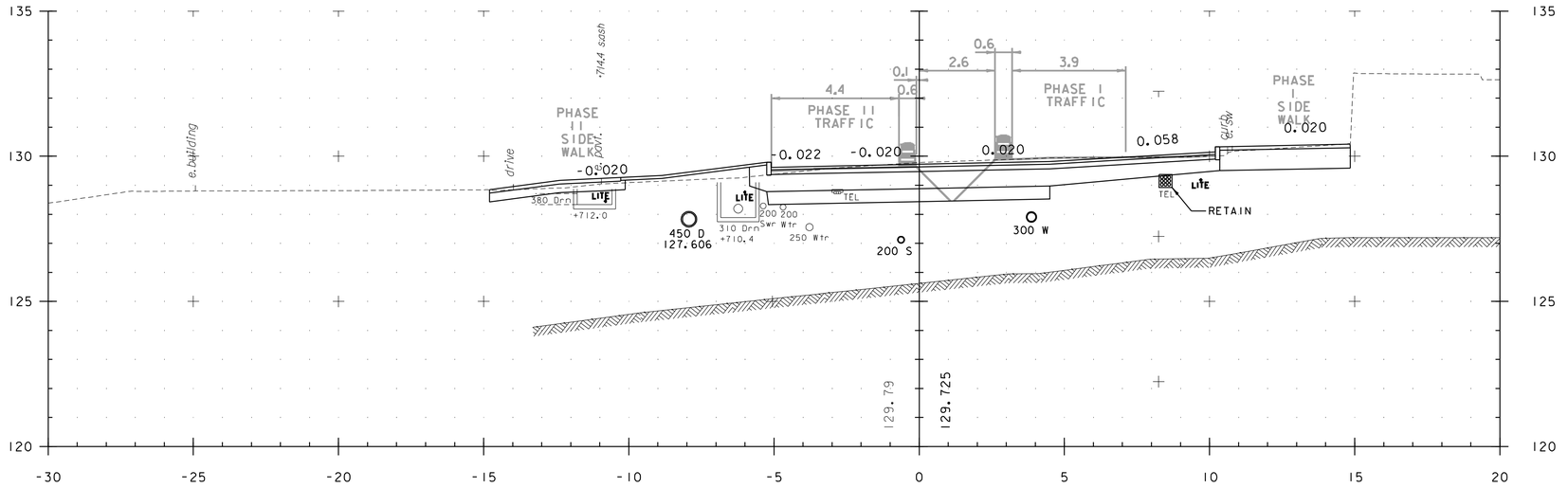
0 2 4 6 8 10

SCALE IN METERS

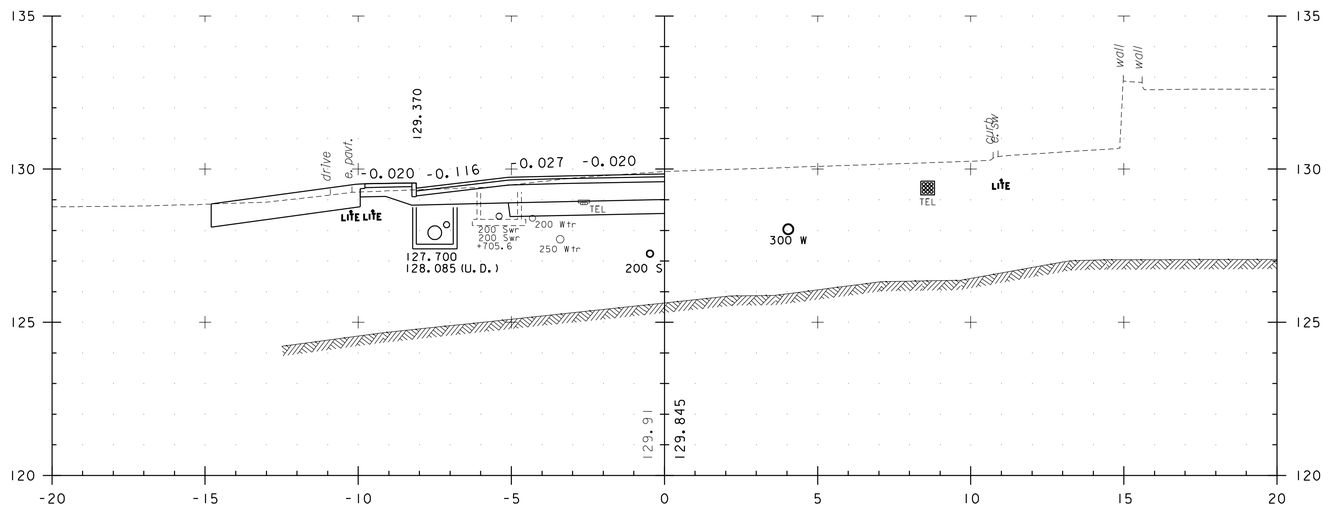
PROJECT NAME:	BRANDON
PROJECT NUMBER:	NH 019-3(496)
FILE NAME: zb008s6-xs.dgn	PLOT DATE: 2/23/2017
PROJECT LEADER: C. BEAN	DRAWN BY: N. LEMAY
DESIGNED BY: D. MUNRO	CHECKED BY: D. MUNRO
	SHEET 522 OF 601

CLD 02-0448 MODEL: 47

ISSUED FOR CONSTRUCTION



21+710.0



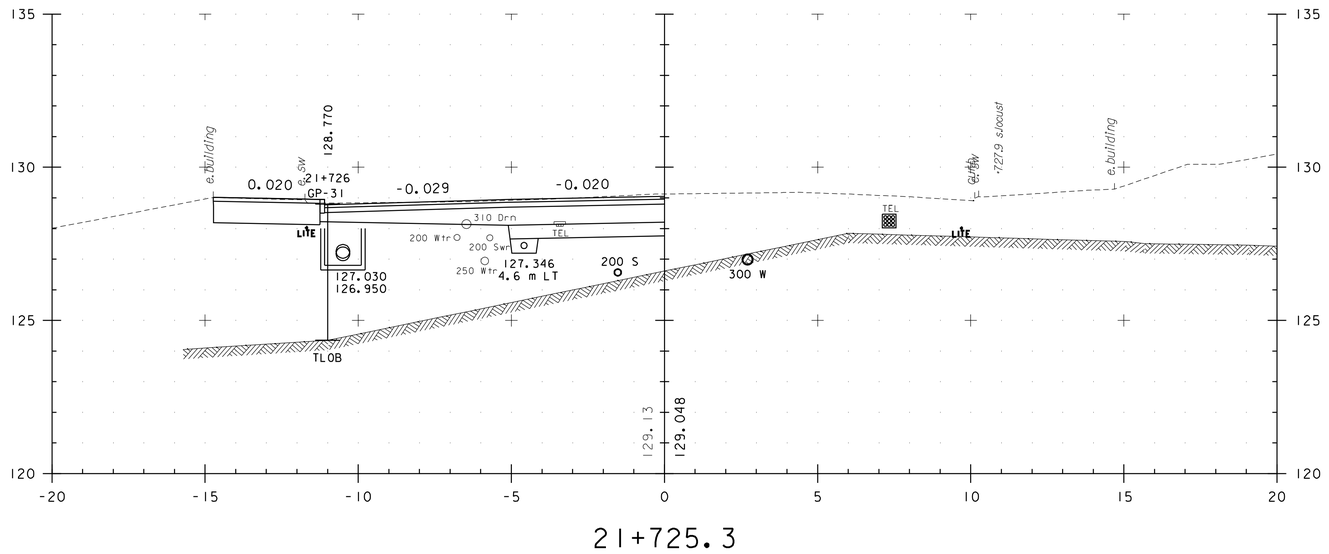
21+707.2

0 2 4 6 8 10
SCALE IN METERS

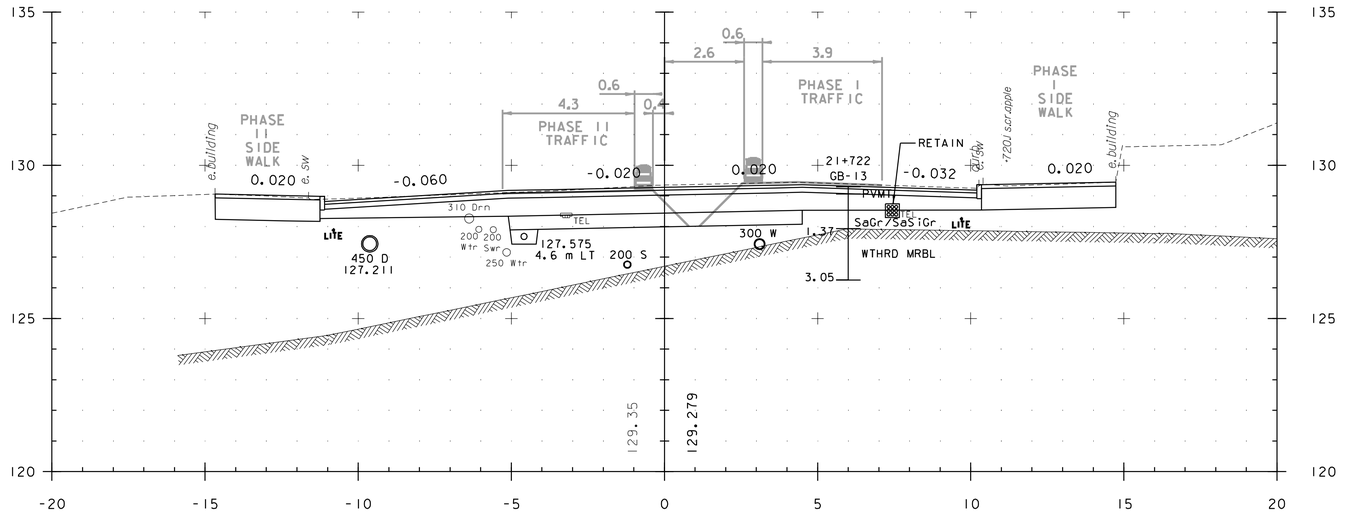
PROJECT NAME:	BRANDON
PROJECT NUMBER:	NH 019-3(496)
FILE NAME: zb008s6-xs.dgn	PLOT DATE: 2/23/2017
PROJECT LEADER: C. BEAN	DRAWN BY: N. LEMAY
DESIGNED BY: D. MUNRO	CHECKED BY: D. MUNRO
	SHEET 523 OF 601

CLD 02-0448 MODEL: 48

ISSUED FOR CONSTRUCTION



21+725.3



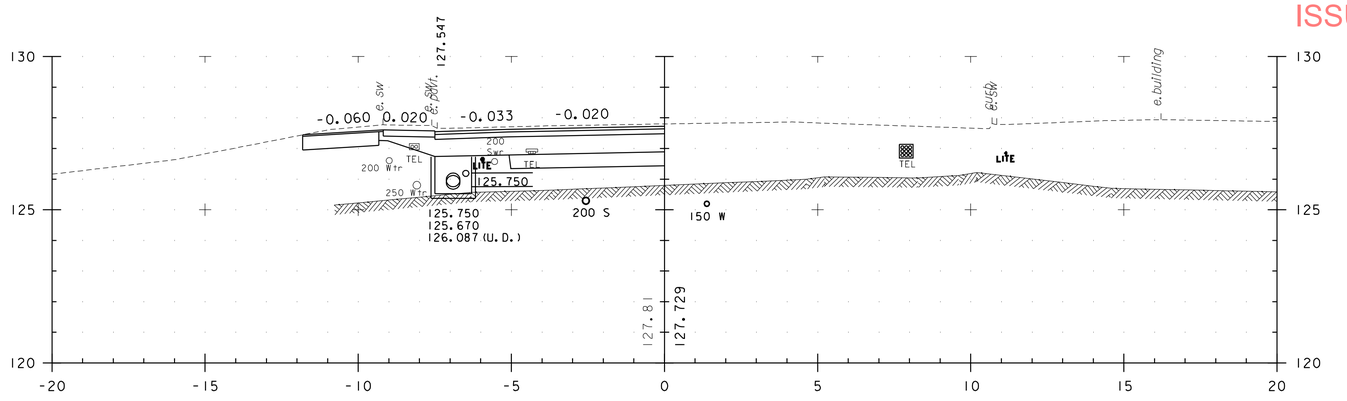
21+720.0

0 2 4 6 8 10
SCALE IN METERS

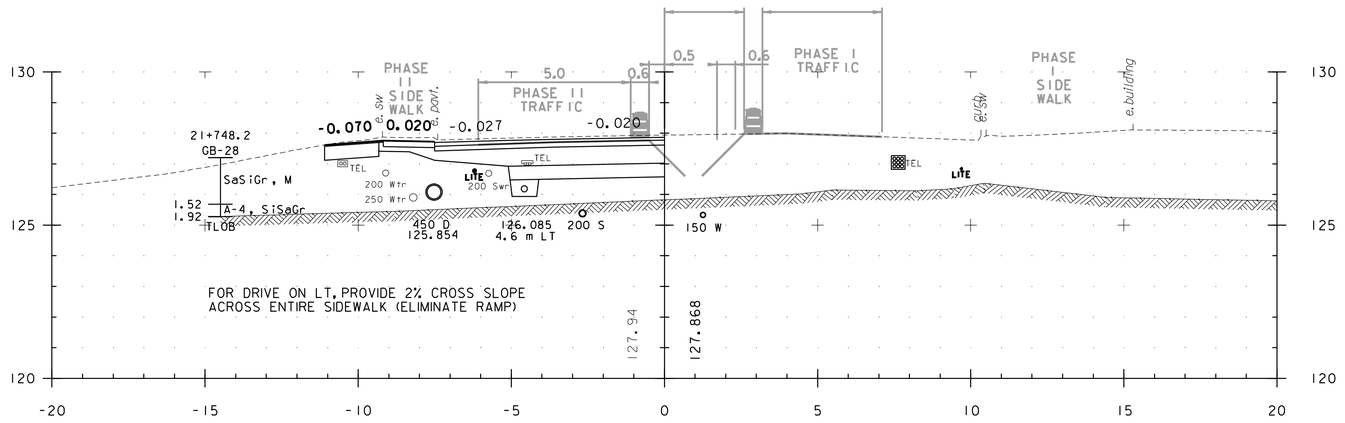
PROJECT NAME:	BRANDON
PROJECT NUMBER:	NH 019-3(496)
FILE NAME: zb008s6-xs.dgn	PLOT DATE: 2/23/2017
PROJECT LEADER: C. BEAN	DRAWN BY: N. LEMAY
DESIGNED BY: D. MUNRO	CHECKED BY: D. MUNRO
	SHEET 524 OF 601

CLD 02-0448 MODEL: 50

ISSUED FOR CONSTRUCTION

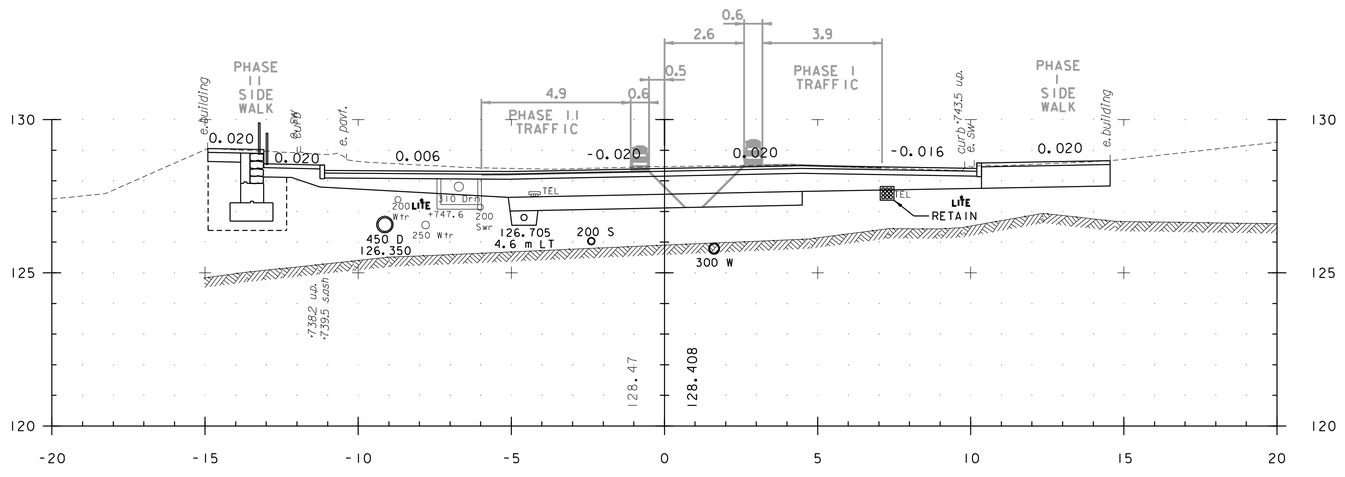


21+755.6



21+752.4

DRIVE LT



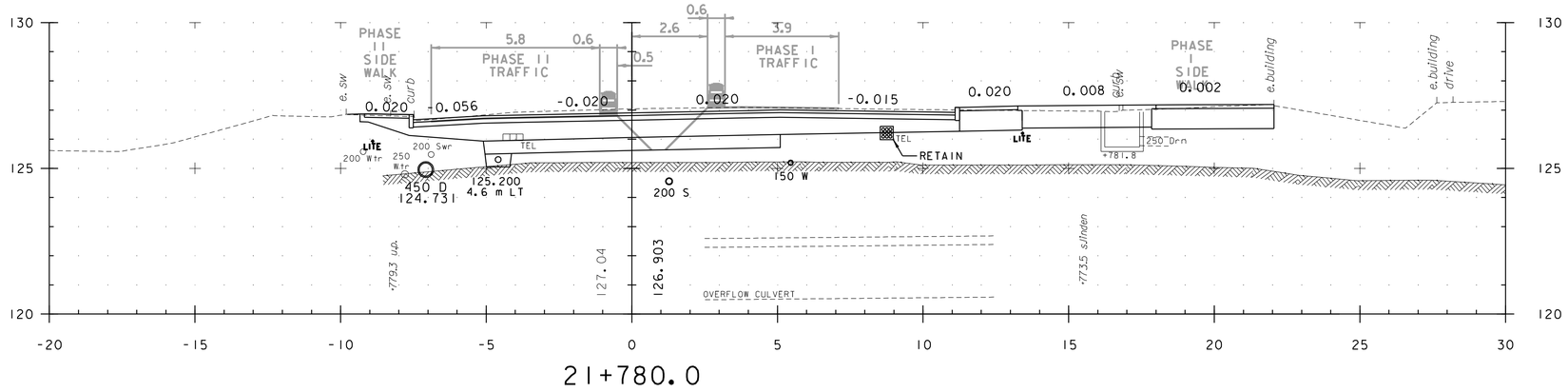
21+740.0

0 2 4 6 8 10
SCALE IN METERS

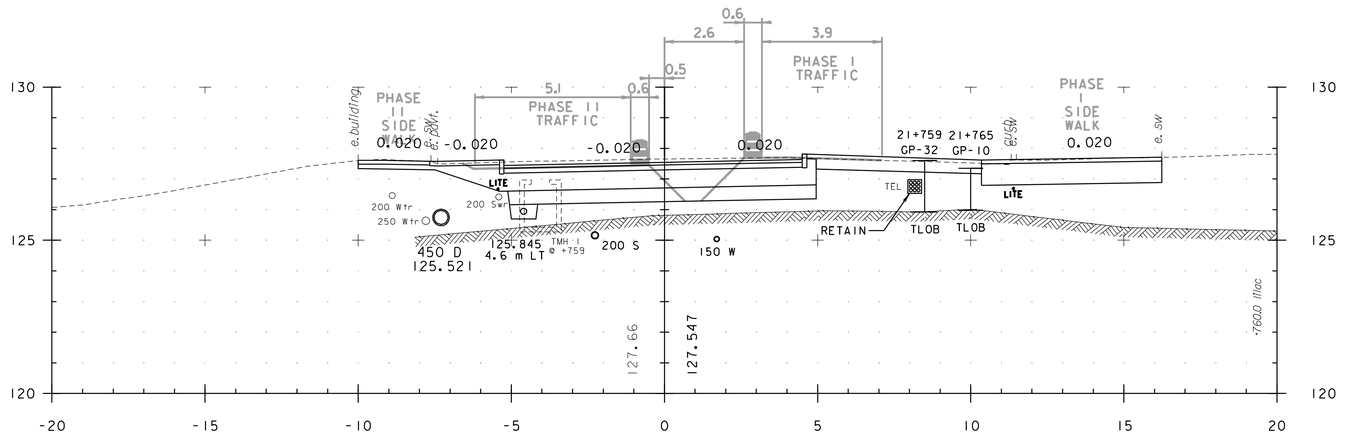
PROJECT NAME:	BRANDON
PROJECT NUMBER:	NH 019-3(496)
FILE NAME: zb008s6-xs.dgn	PLOT DATE: 2/23/2017
PROJECT LEADER: C. BEAN	DRAWN BY: N. LEMAY
DESIGNED BY: D. MUNRO	CHECKED BY: D. MUNRO
	SHEET 525 OF 601

CLD 02-0448 MODEL: 51

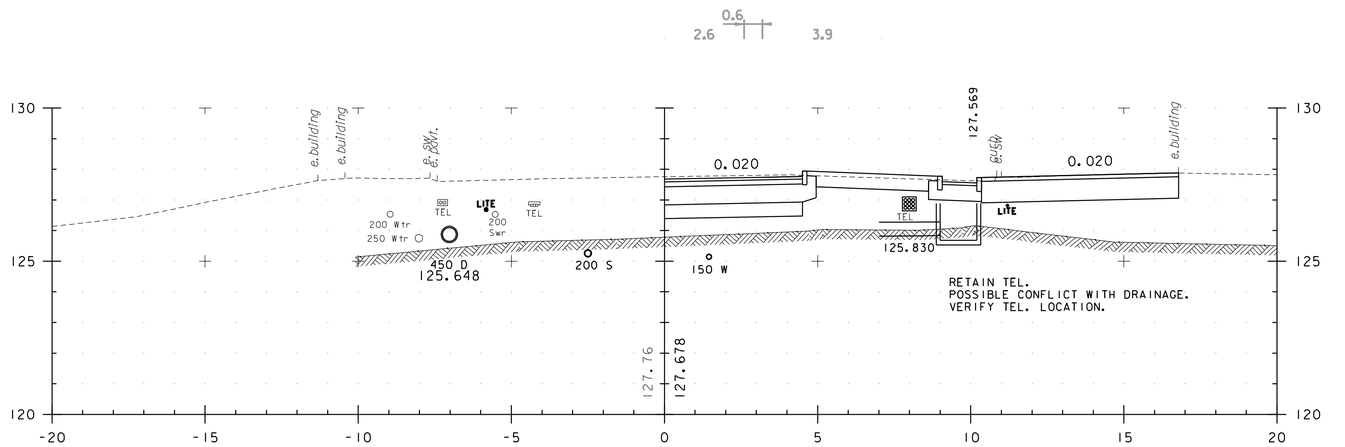
ISSUED FOR CONSTRUCTION



21+780.0



21+760.0



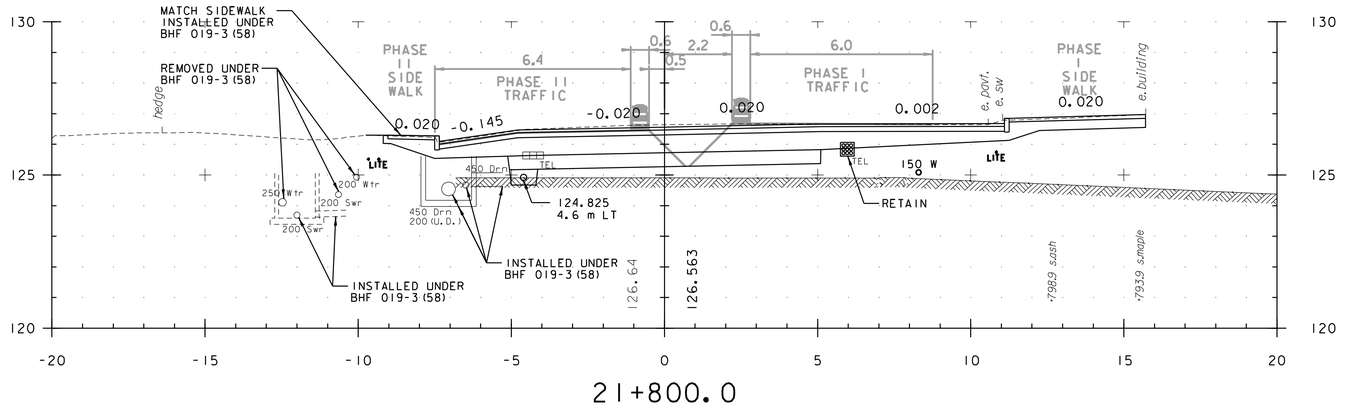
21+756.8

0 2 4 6 8 10
SCALE IN METERS

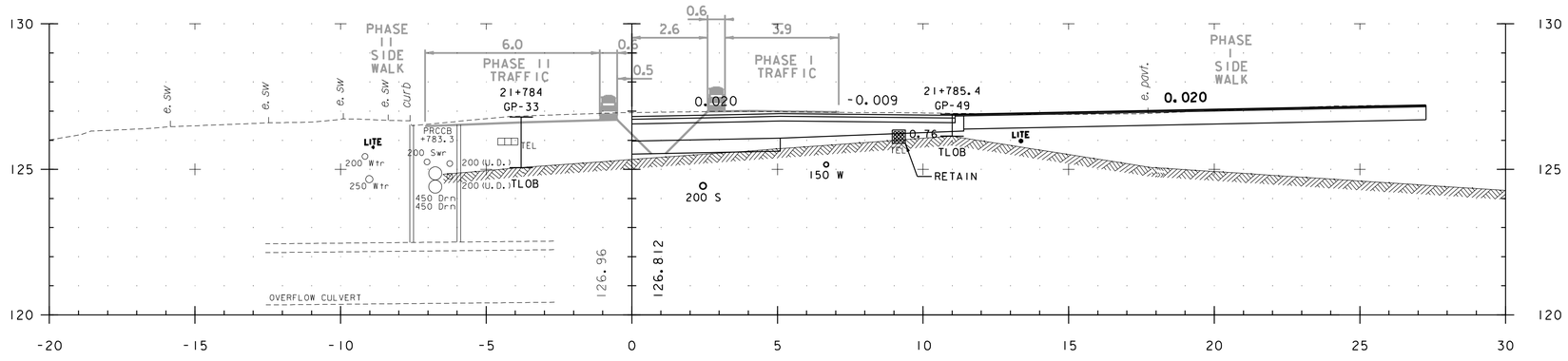
PROJECT NAME: BRANDON
PROJECT NUMBER: NH 019-3(496)

FILE NAME: zb008s6-xs.dgn
PROJECT LEADER: C. BEAN
DESIGNED BY: D. MUNRO
PLOT DATE: 2/23/2017
DRAWN BY: N. LEMAY
CHECKED BY: D. MUNRO
SHEET 526 OF 601

CLD 02-0448 MODEL: 52



21+800.0

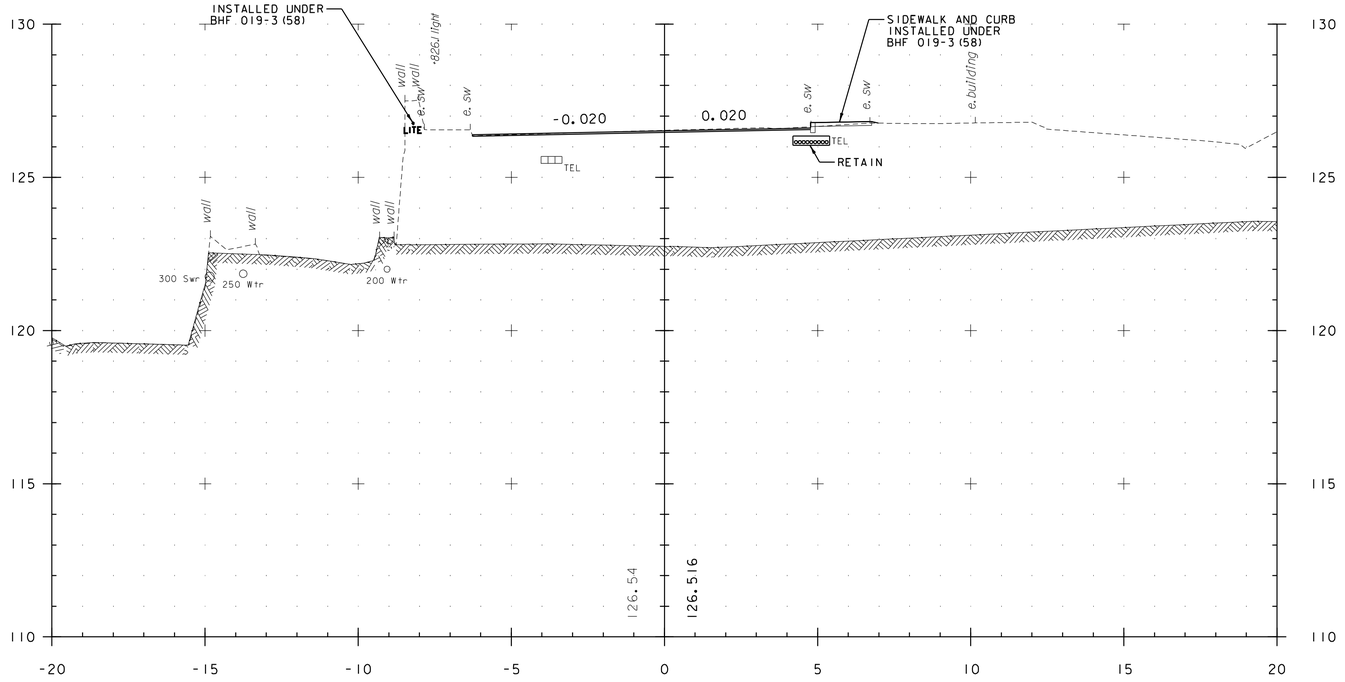


21+784.0
DRIVE RT

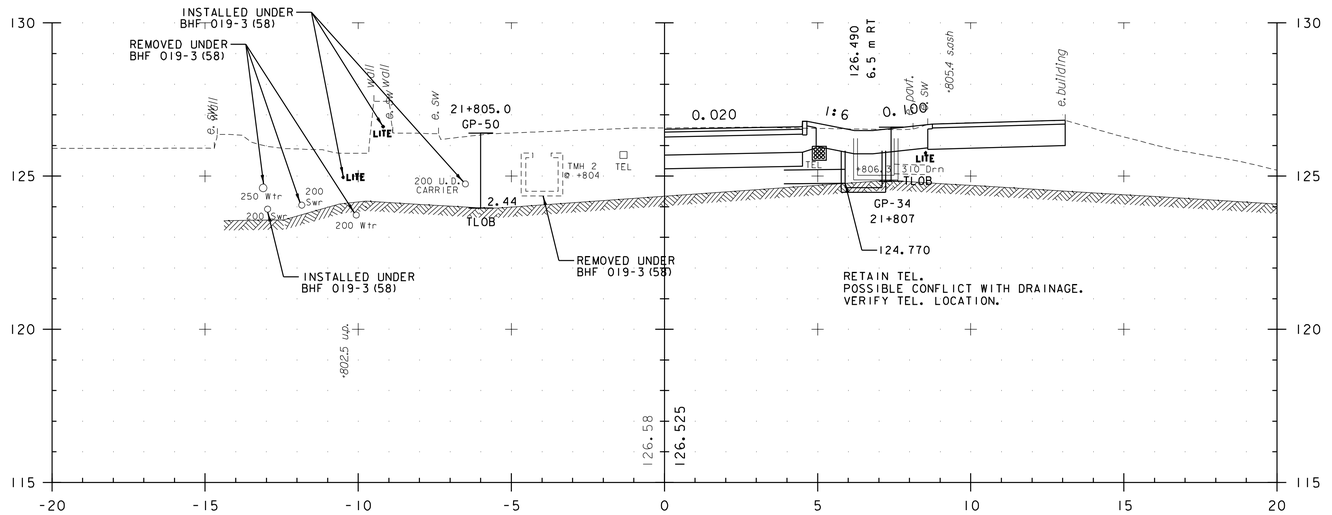
0 2 4 6 8 10
SCALE IN METERS

PROJECT NAME:	BRANDON
PROJECT NUMBER:	NH 019-3(496)
FILE NAME: zb008s6-xs.dgn	PLOT DATE: 2/23/2017
PROJECT LEADER: C. BEAN	DRAWN BY: N. LEMAY
DESIGNED BY: D. MUNRO	CHECKED BY: D. MUNRO
	SHEET 527 OF 601

CLD 02-0448 MODEL: 53



21+820.0



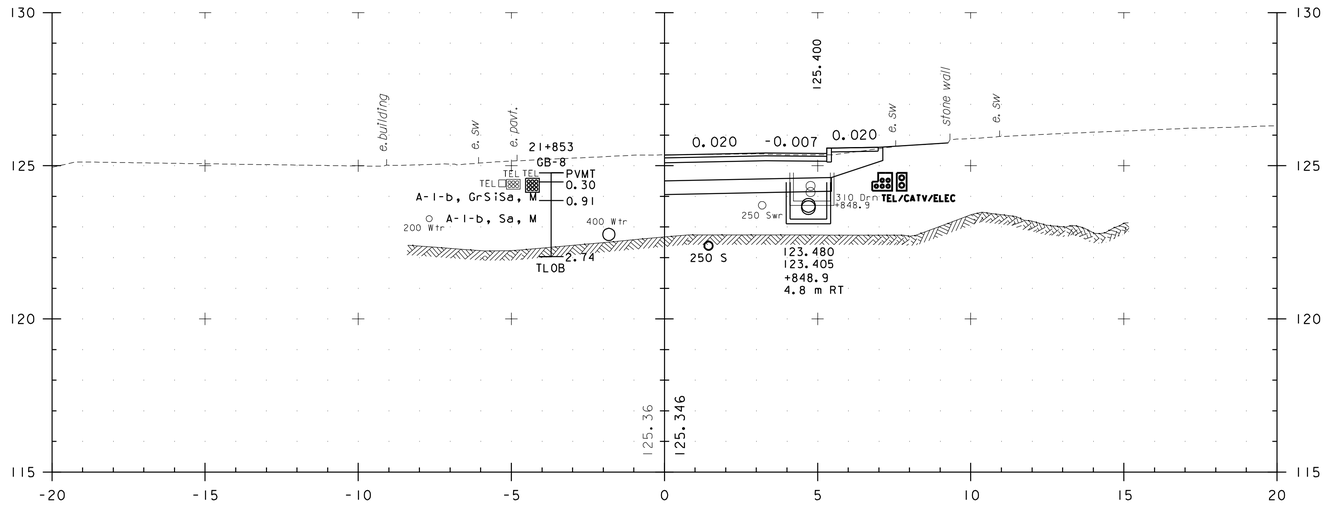
21+805.0

0 2 4 6 8 10
SCALE IN METERS

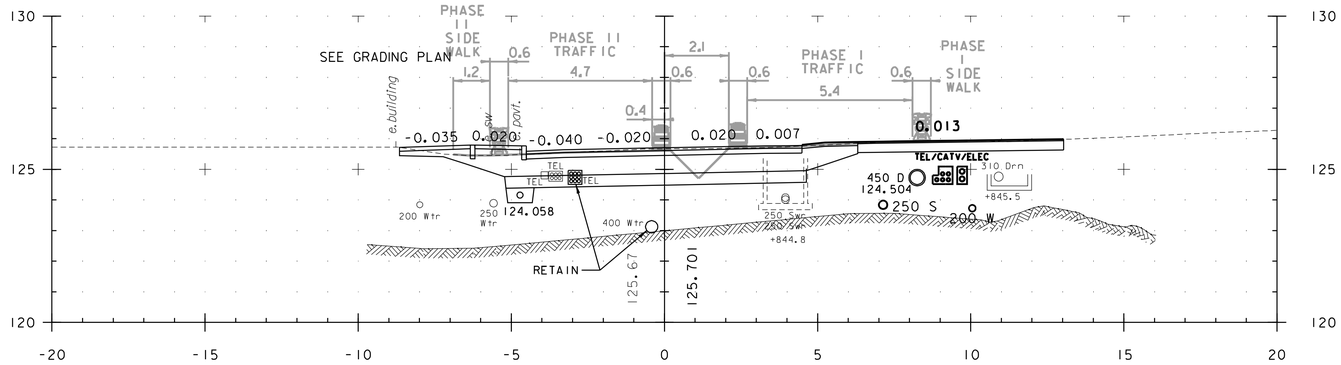
PROJECT NAME:	BRANDON
PROJECT NUMBER:	NH 019-3(496)
FILE NAME: zb008s6-xs.dgn	PLOT DATE: 2/23/2017
PROJECT LEADER: C. BEAN	DRAWN BY: N. LEMAY
DESIGNED BY: D. MUNRO	CHECKED BY: D. MUNRO
	SHEET 528 OF 601

CLD 02-0448 MODEL: 54

ISSUED FOR CONSTRUCTION

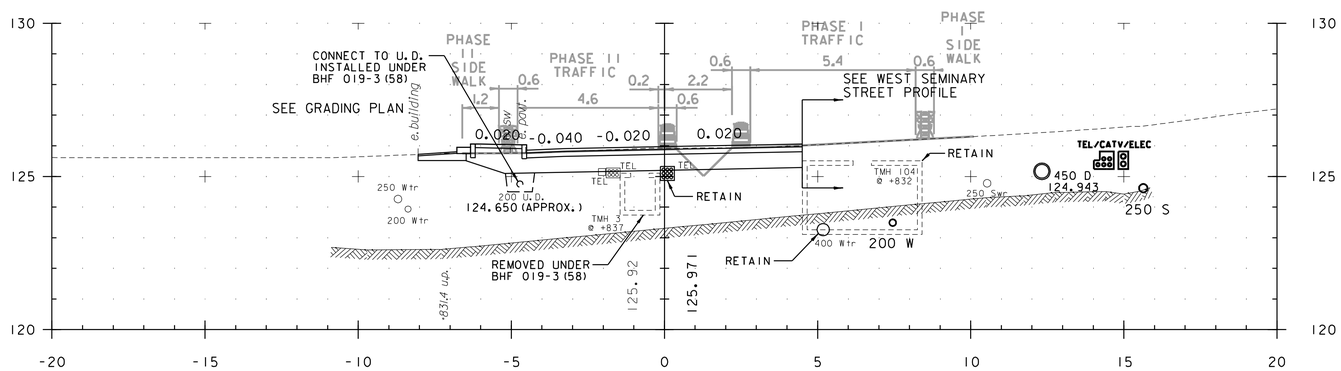


21+849.0



21+844.3

DRIVE RT



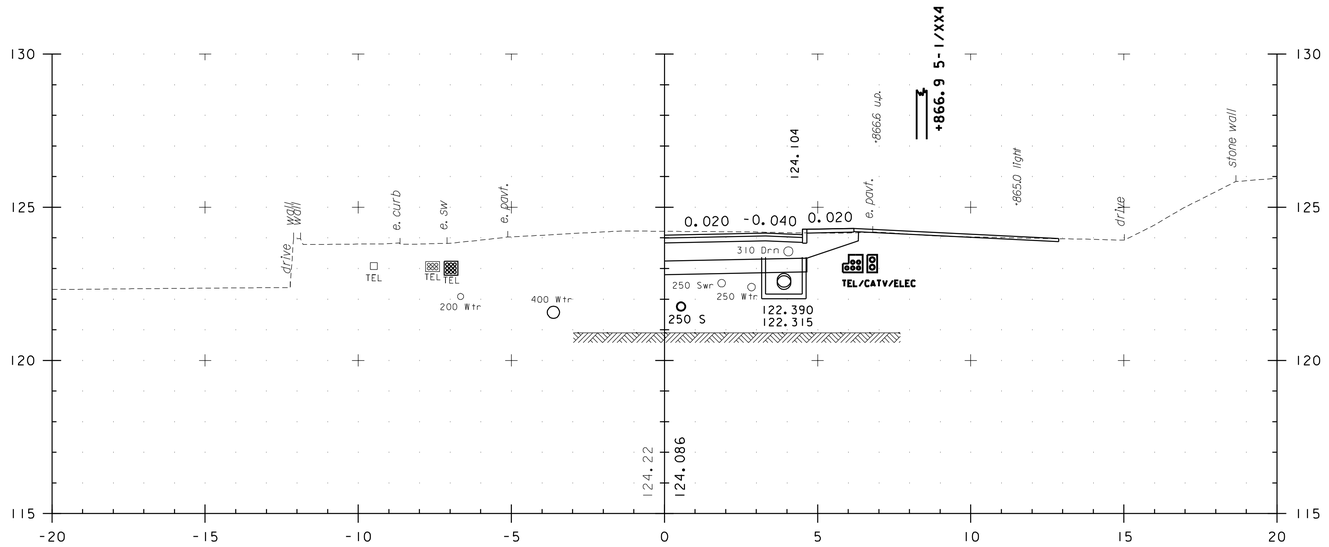
21+840.0

0 2 4 6 8 10
SCALE IN METERS

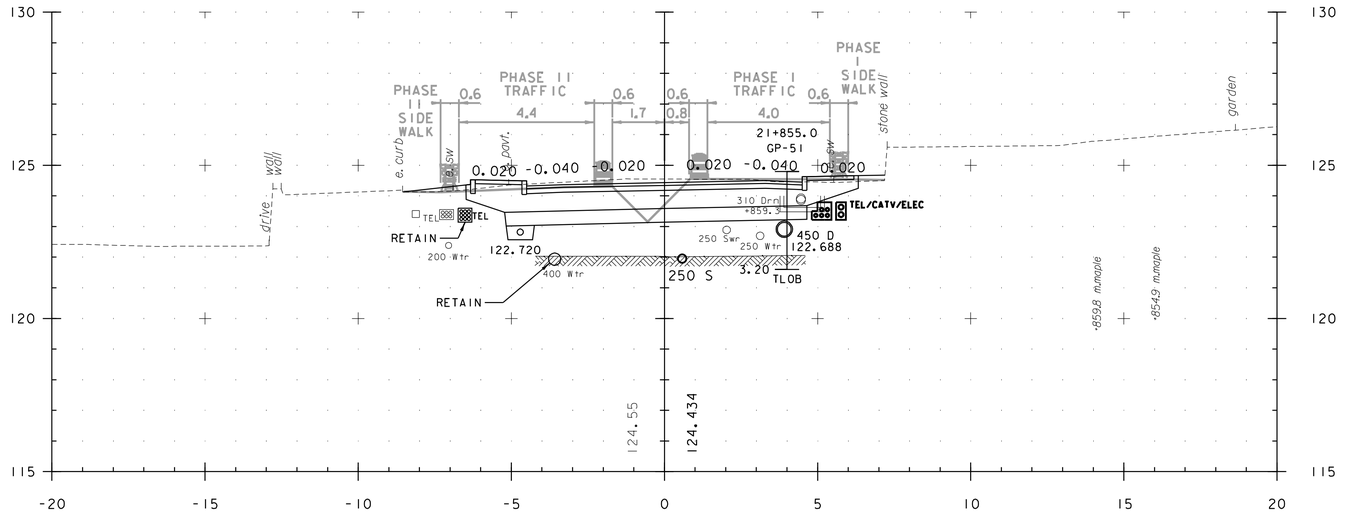
PROJECT NAME:	BRANDON
PROJECT NUMBER:	NH 019-3(496)
FILE NAME: zb008s6-xs.dgn	PLOT DATE: 2/23/2017
PROJECT LEADER: C. BEAN	DRAWN BY: N. LEMAY
DESIGNED BY: D. MUNRO	CHECKED BY: D. MUNRO
	SHEET 529 OF 601

CLD 02-0448 MODEL: 55

ISSUED FOR CONSTRUCTION



21+865.0



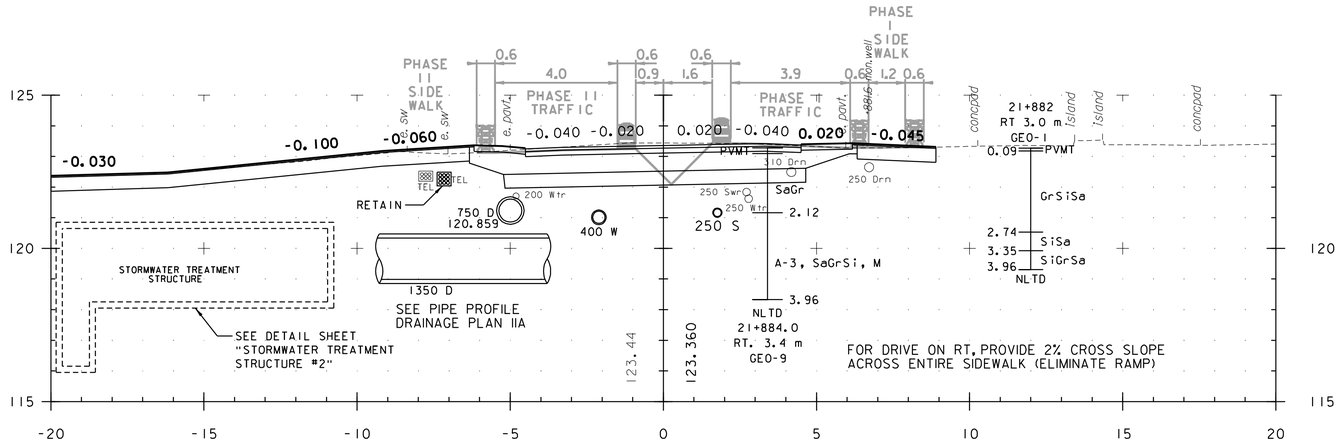
21+860.0

0 2 4 6 8 10
SCALE IN METERS

PROJECT NAME:	BRANDON
PROJECT NUMBER:	NH 019-3(496)
FILE NAME: zb008s6-xs.dgn	PLOT DATE: 2/23/2017
PROJECT LEADER: C. BEAN	DRAWN BY: N. LEMAY
DESIGNED BY: D. MUNRO	CHECKED BY: D. MUNRO
	SHEET 530 OF 601

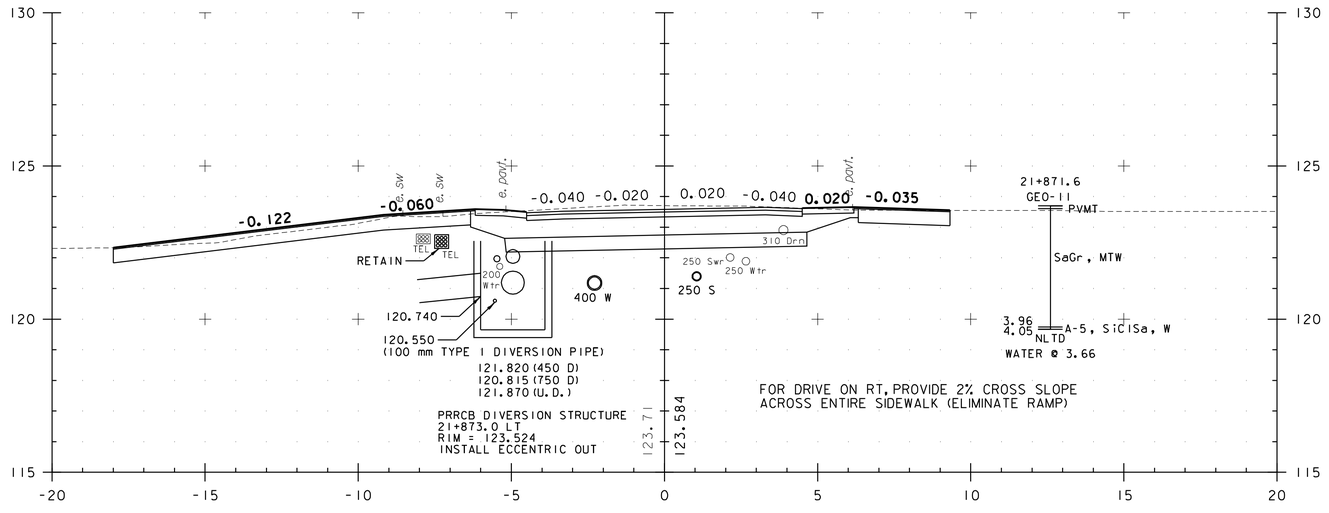
CLD 02-0448 MODEL: 56

ISSUED FOR CONSTRUCTION



21+880.0

DRIVE LT & RT



21+874.2

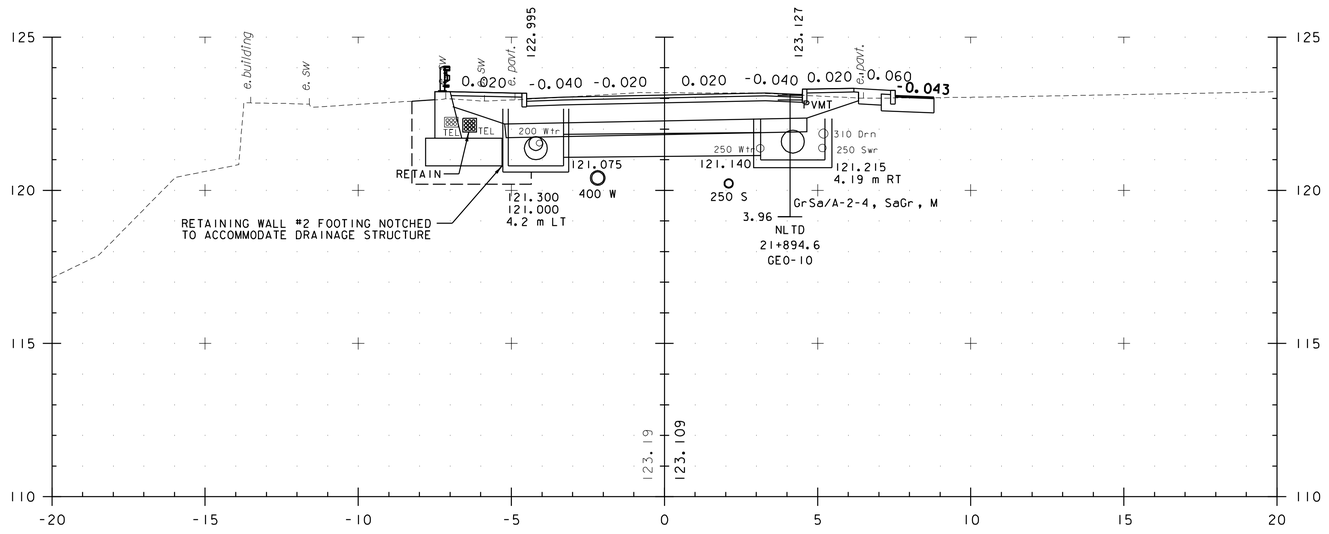
DRIVE RT

0 2 4 6 8 10

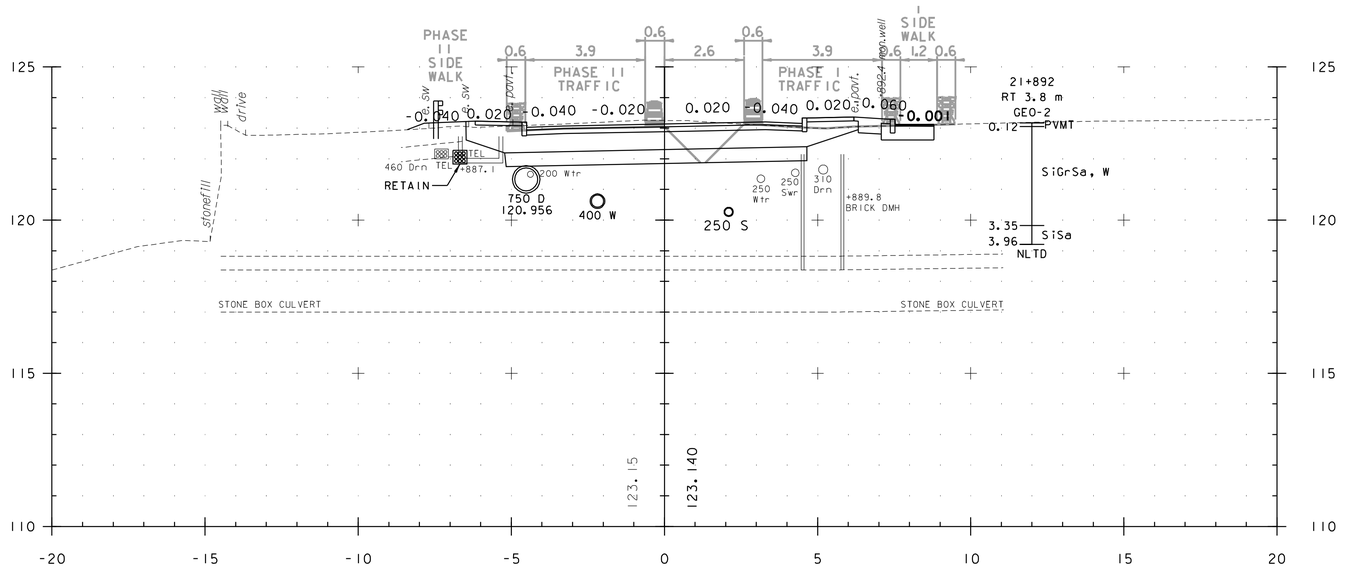
SCALE IN METERS

PROJECT NAME:	BRANDON
PROJECT NUMBER:	NH 019-3(496)
FILE NAME: zb008s6-xs.dgn	PLOT DATE: 2/23/2017
PROJECT LEADER: C. BEAN	DRAWN BY: N. LEMAY
DESIGNED BY: D. MUNRO	CHECKED BY: D. MUNRO
	SHEET 531 OF 601

CLD 02-0448 MODEL: 57



21+895.4

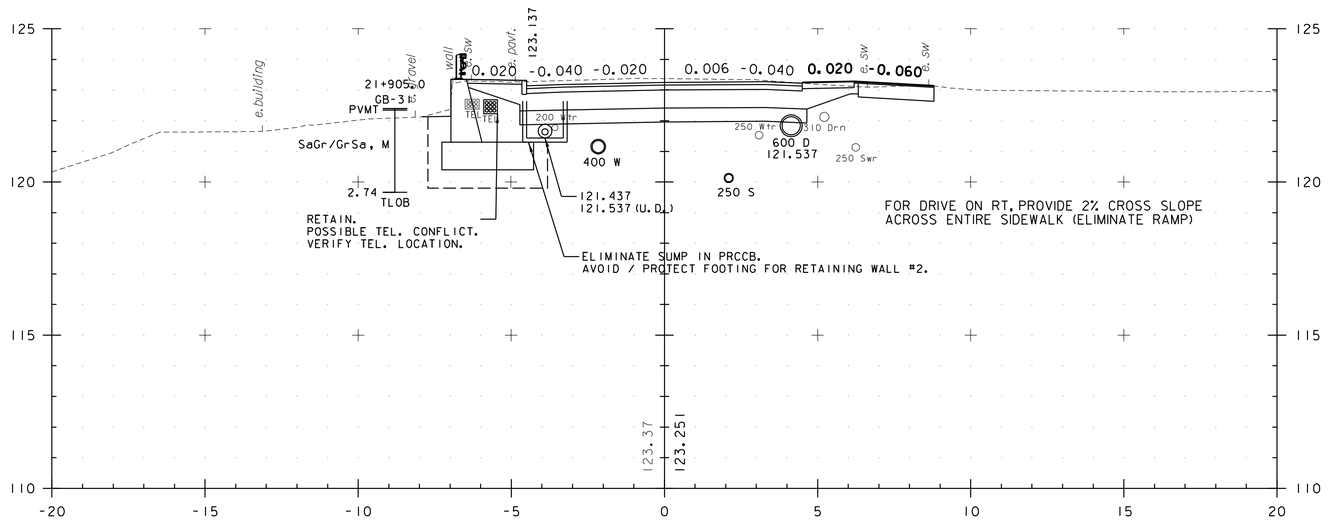


21+890.0

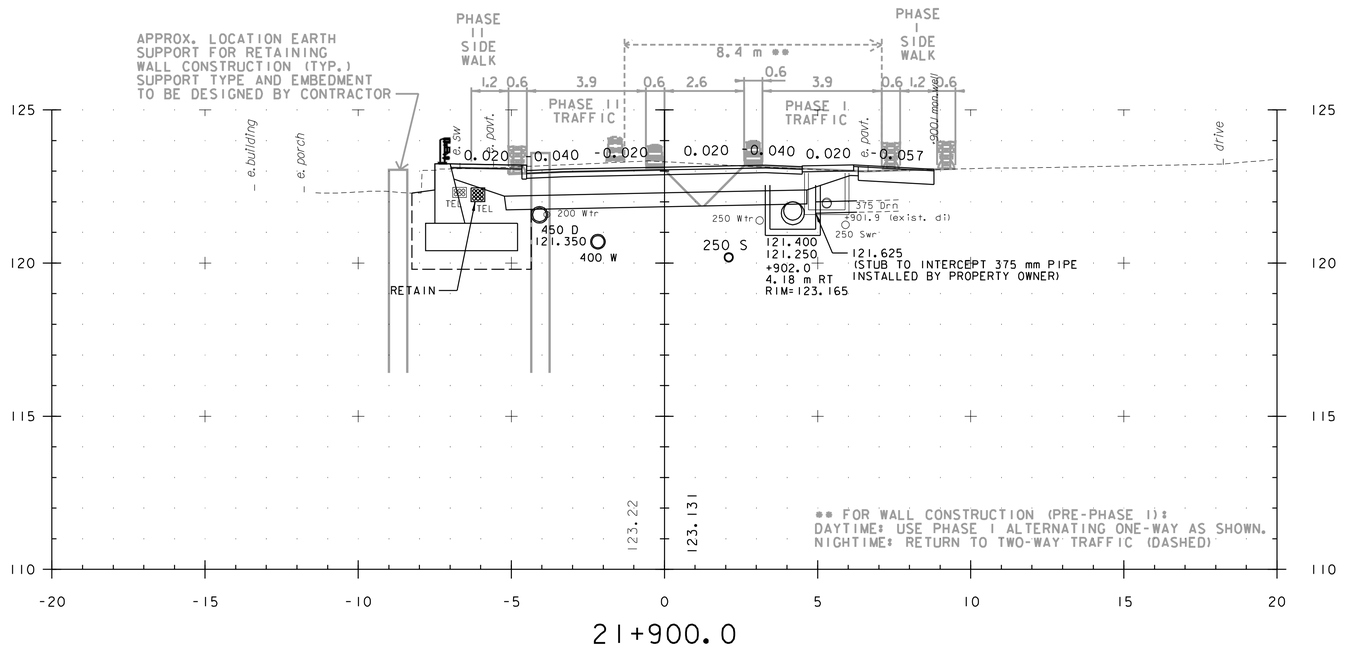
0 2 4 6 8 10
SCALE IN METERS

PROJECT NAME:	BRANDON
PROJECT NUMBER:	NH 019-3(496)
FILE NAME: zb008s6-xs.dgn	PLOT DATE: 2/23/2017
PROJECT LEADER: C. BEAN	DRAWN BY: N. LEMAY
DESIGNED BY: D. MUNRO	CHECKED BY: D. MUNRO
	SHEET 532 OF 601

CLD 02-0448 MODEL: 59



21+907.0
DRIVE RT



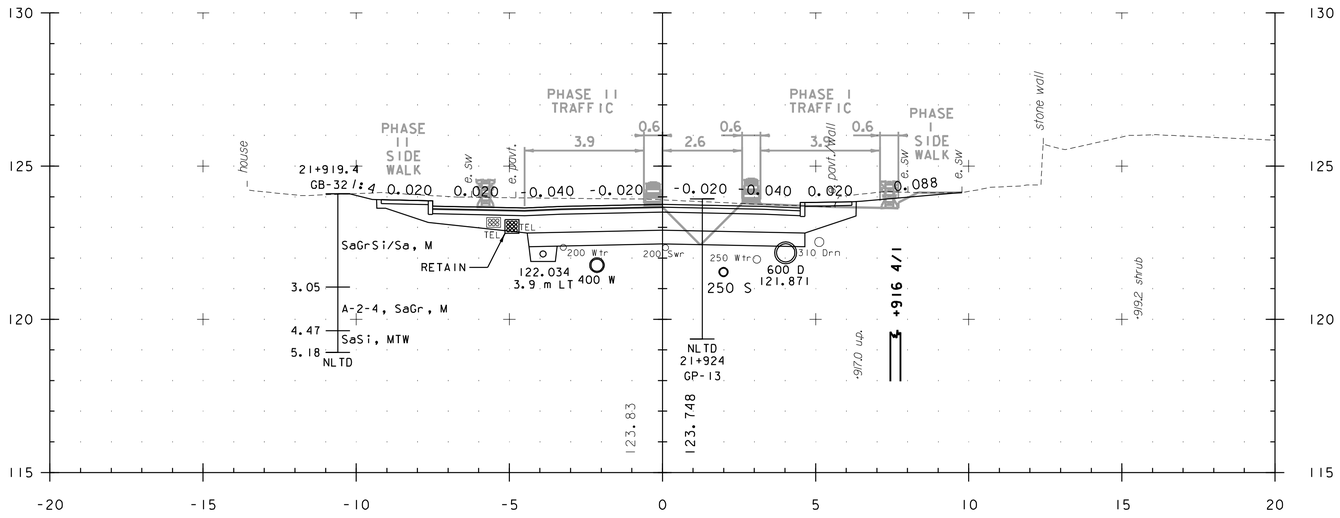
21+900.0

0 2 4 6 8 10
SCALE IN METERS

PROJECT NAME:	BRANDON
PROJECT NUMBER:	NH 019-3(496)
FILE NAME: zb008s6-xs.dgn	PLOT DATE: 2/23/2017
PROJECT LEADER: C. BEAN	DRAWN BY: N. LEMAY
DESIGNED BY: D. MUNRO	CHECKED BY: D. MUNRO
	SHEET 533 OF 601

CLD 02-0448 MODEL: 60

ISSUED FOR CONSTRUCTION

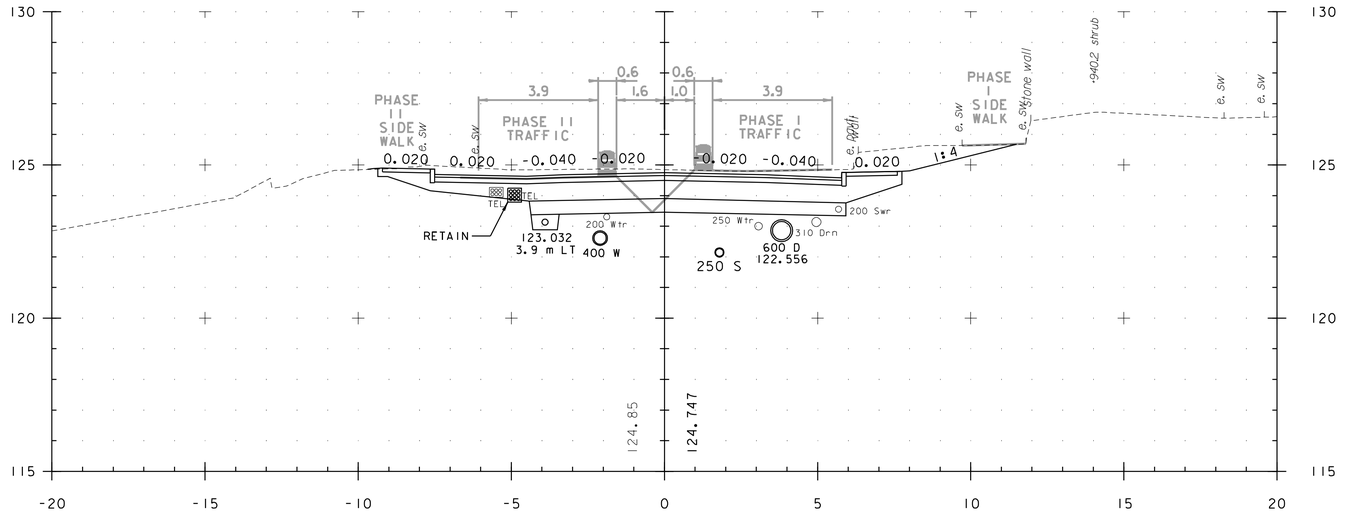


21+920.0

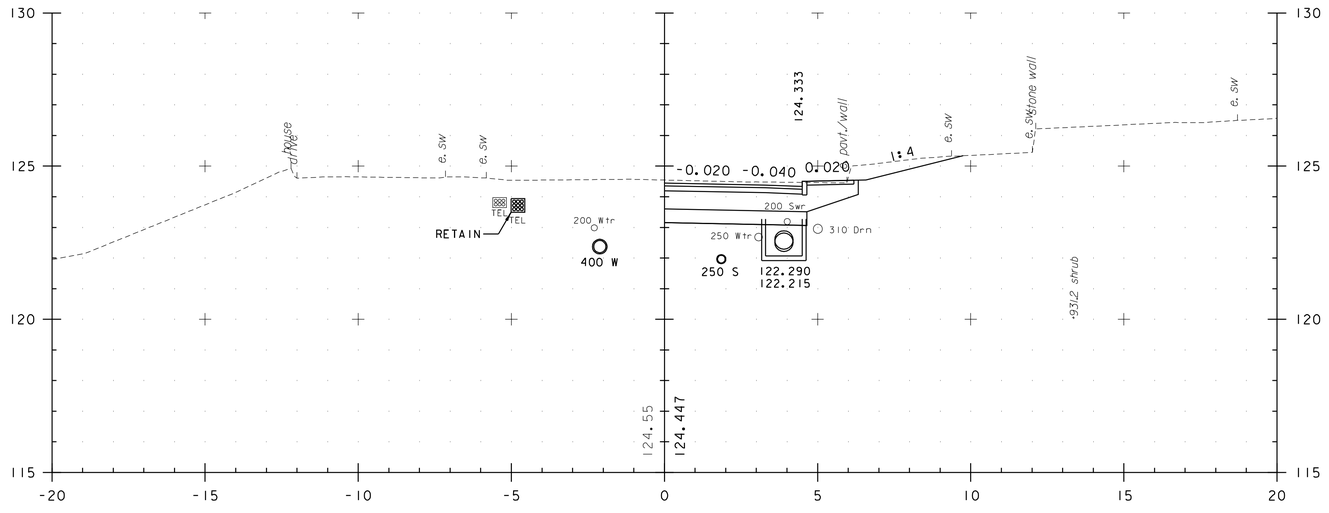
0 2 4 6 8 10
SCALE IN METERS

PROJECT NAME:	BRANDON
PROJECT NUMBER:	NH 019-3(496)
FILE NAME: zb008s6-xs.dgn	PLOT DATE: 2/23/2017
PROJECT LEADER: C. BEAN	DRAWN BY: N. LEMAY
DESIGNED BY: D. MUNRO	CHECKED BY: D. MUNRO
	SHEET 534 OF 601

CLD 02-0448 MODEL: 62



21+940.0



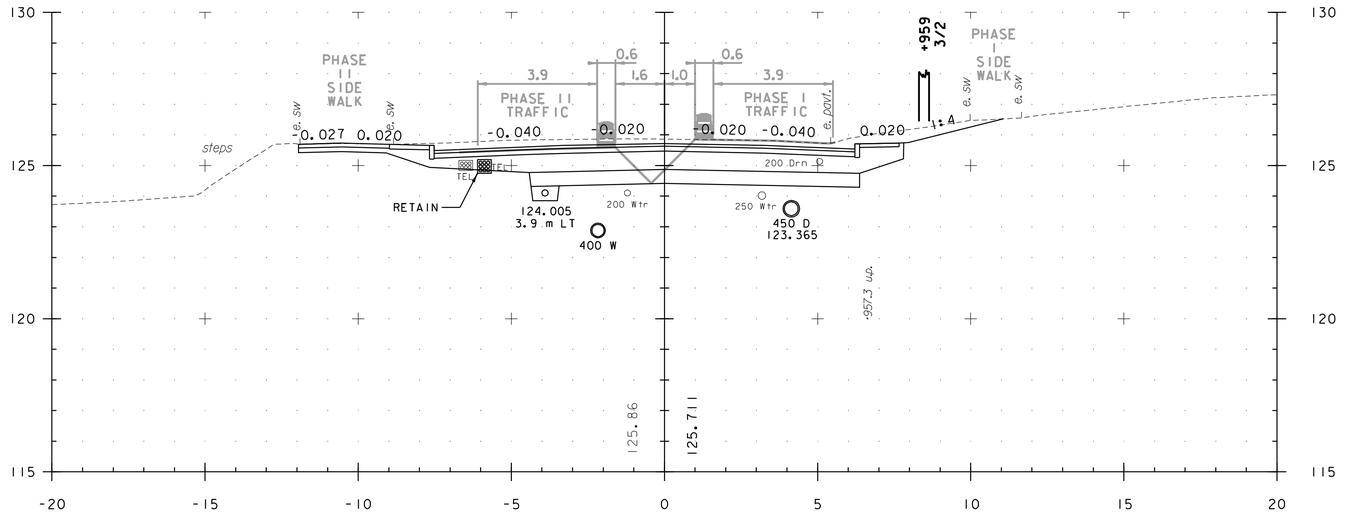
21+934.0

0 2 4 6 8 10
SCALE IN METERS

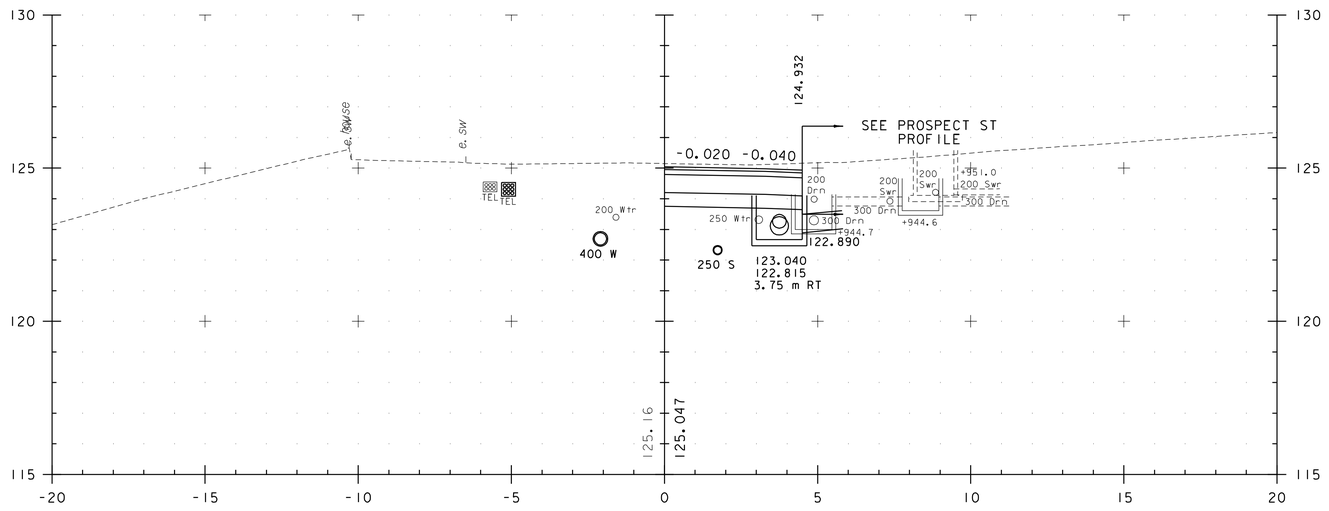
PROJECT NAME:	BRANDON
PROJECT NUMBER:	NH 019-3(496)
FILE NAME: zb008s6-xs.dgn	PLOT DATE: 2/23/2017
PROJECT LEADER: C. BEAN	DRAWN BY: N. LEMAY
DESIGNED BY: D. MUNRO	CHECKED BY: D. MUNRO
	SHEET 535 OF 601

CLD 02-0448 MODEL: 63

ISSUED FOR CONSTRUCTION



21+960.0



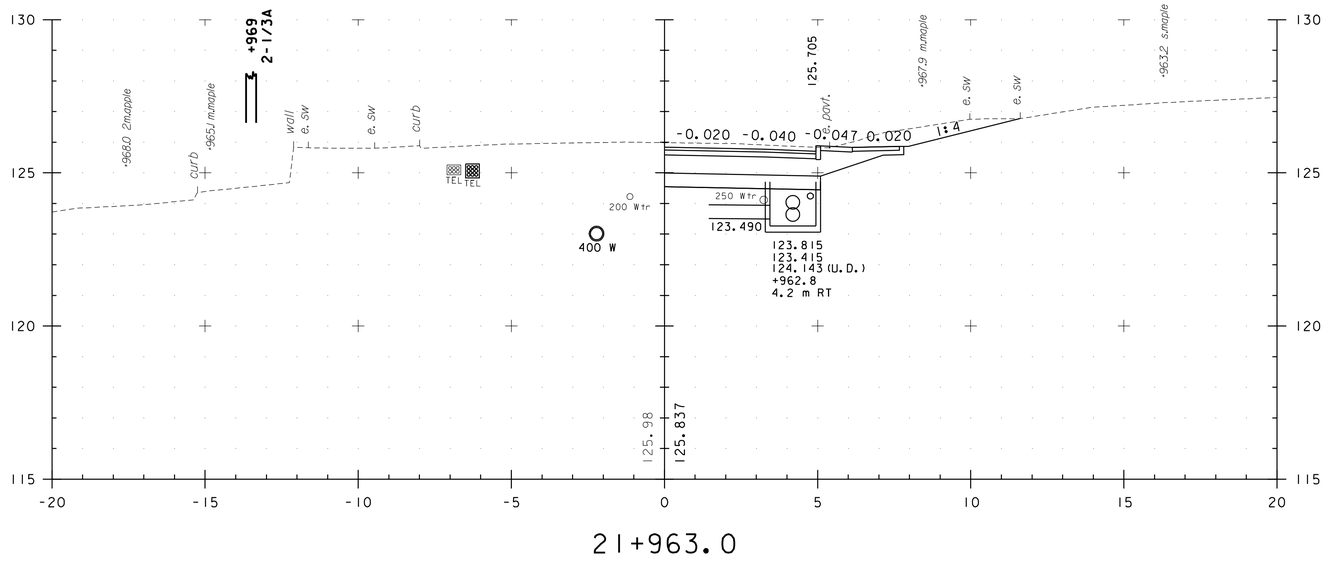
21+946.0

0 2 4 6 8 10
SCALE IN METERS

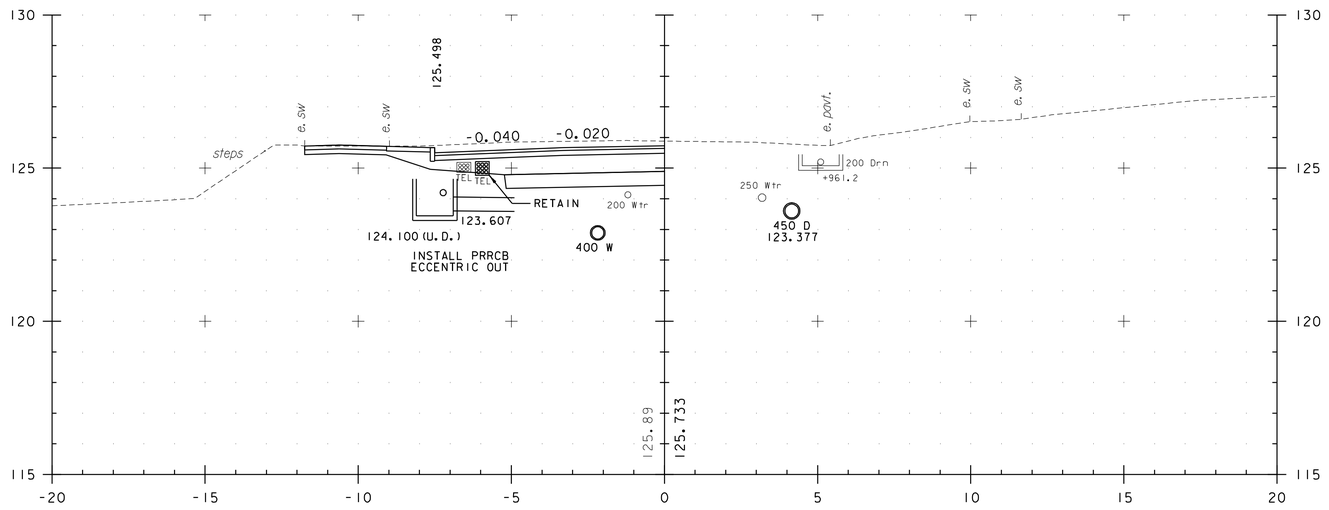
PROJECT NAME:	BRANDON
PROJECT NUMBER:	NH 019-3(496)
FILE NAME: zb008s6-xs.dgn	PLOT DATE: 2/23/2017
PROJECT LEADER: C. BEAN	DRAWN BY: N. LEMAY
DESIGNED BY: D. MUNRO	CHECKED BY: D. MUNRO
	SHEET 536 OF 601

CLD 02-0448 MODEL: 64

ISSUED FOR CONSTRUCTION



21+963.0

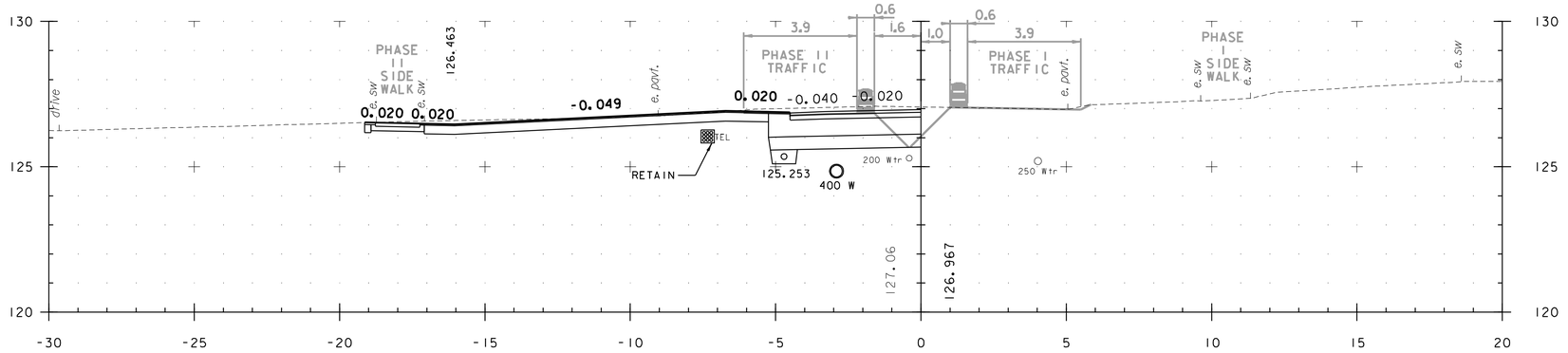


21+960.5

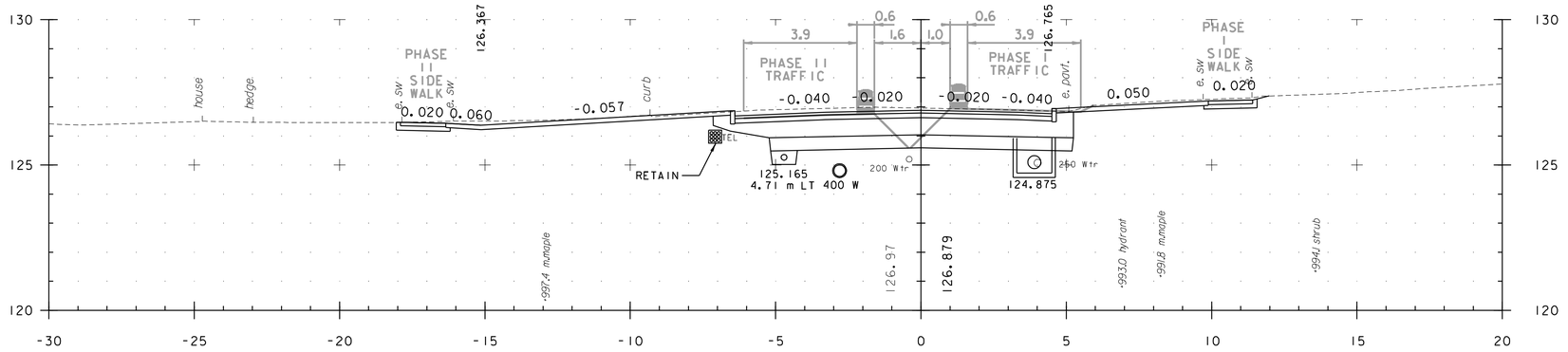
0 2 4 6 8 10
SCALE IN METERS

PROJECT NAME:	BRANDON
PROJECT NUMBER:	NH 019-3(496)
FILE NAME: zb008s6-xs.dgn	PLOT DATE: 2/23/2017
PROJECT LEADER: C. BEAN	DRAWN BY: N. LEMAY
DESIGNED BY: D. MUNRO	CHECKED BY: D. MUNRO
	SHEET 537 OF 601

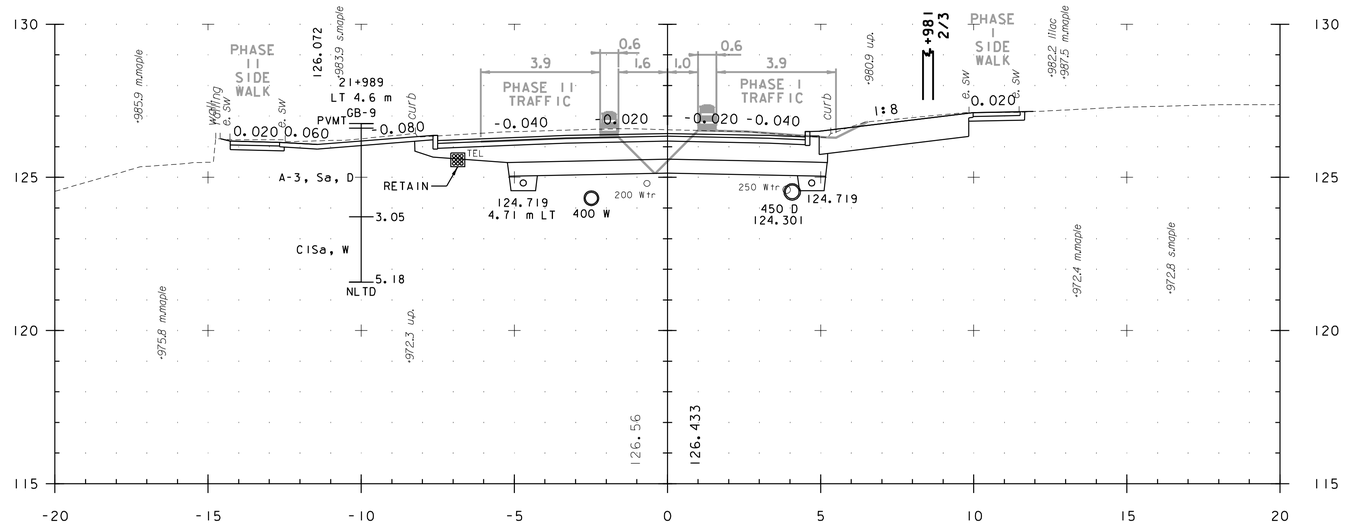
CLD 02-0448 MODEL: 65



22+006.7
DRIVE LT



22+000.0

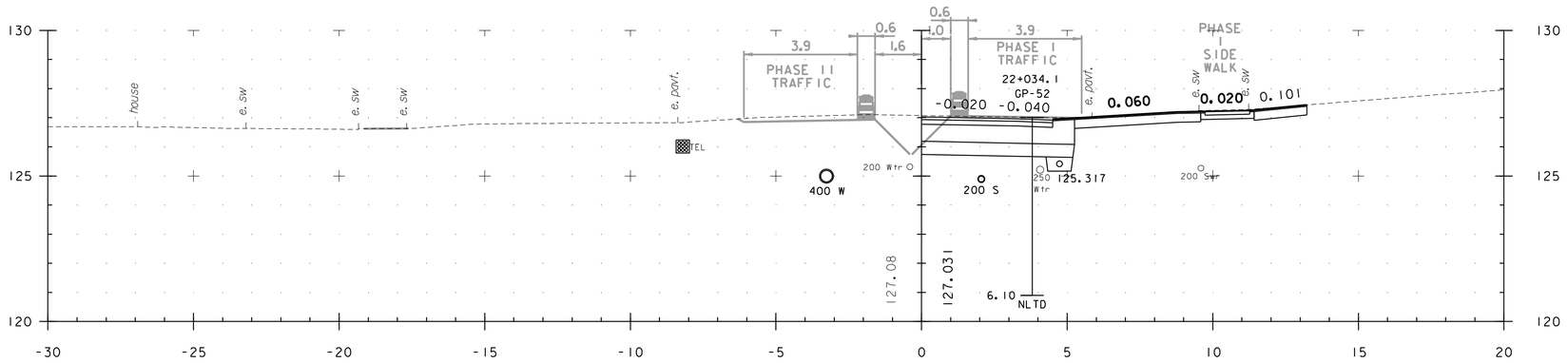


21+980.0

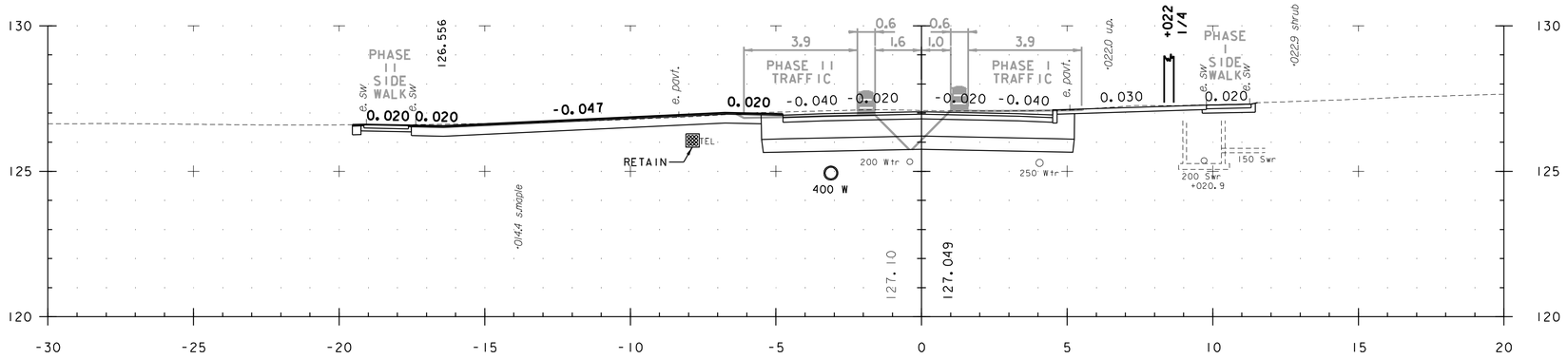
0 2 4 6 8 10
SCALE IN METERS

PROJECT NAME:	BRANDON
PROJECT NUMBER:	NH 019-3(496)
FILE NAME: zb008s6-xs.dgn	PLOT DATE: 2/23/2017
PROJECT LEADER: C. BEAN	DRAWN BY: N. LEMAY
DESIGNED BY: D. MUNRO	CHECKED BY: D. MUNRO
	SHEET 538 OF 601

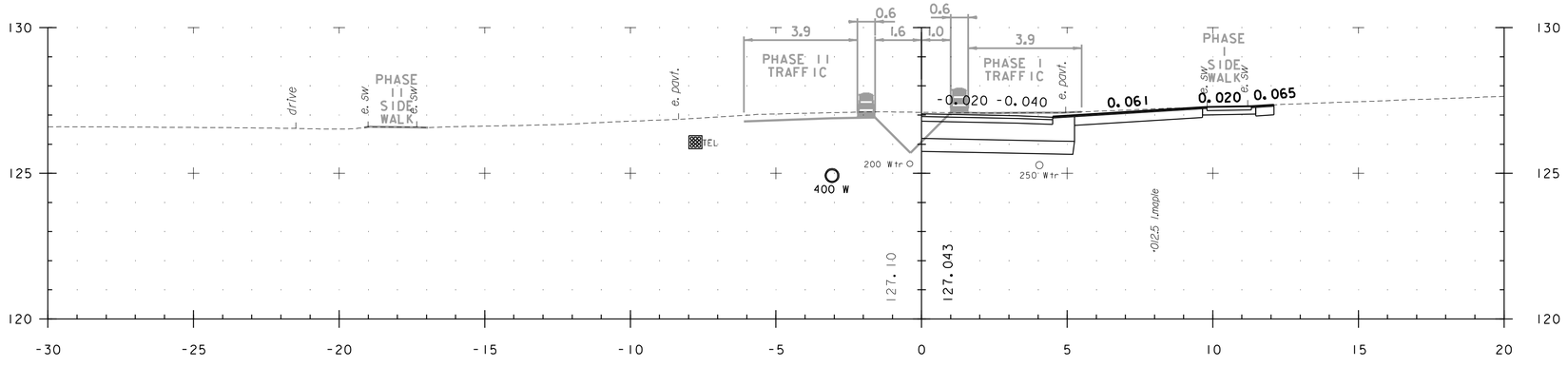
CLD 02-0448 MODEL: 66



22+029.7
DRIVE RT



22+020.0
DRIVE LT

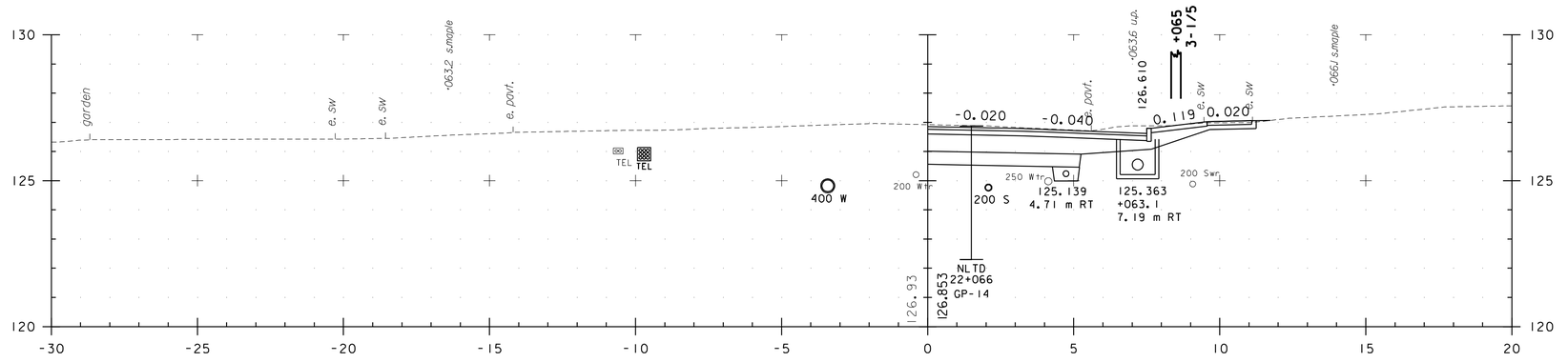


22+017.6
DRIVE RT

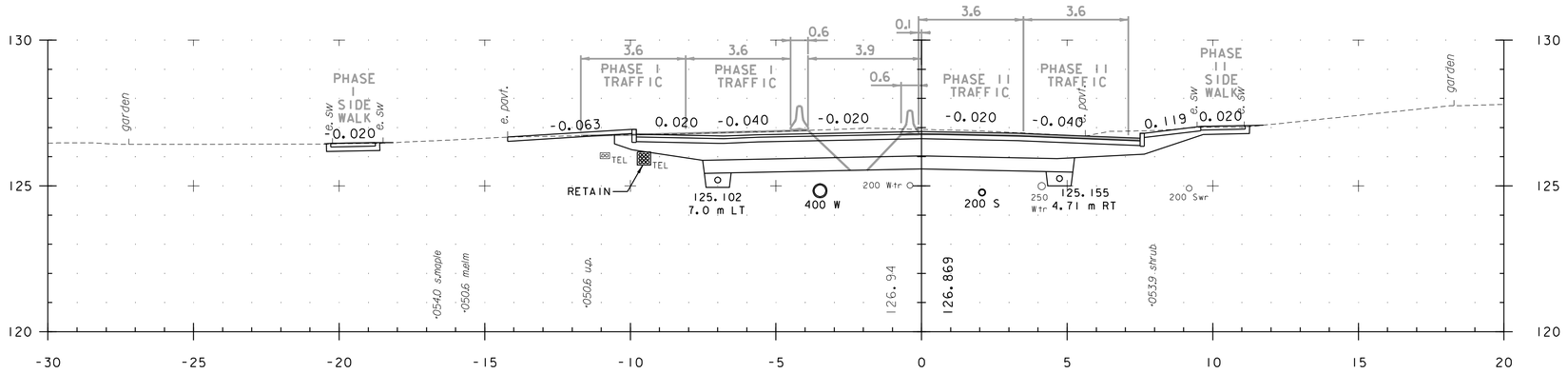
0 2 4 6 8 10
SCALE IN METERS

PROJECT NAME:	BRANDON
PROJECT NUMBER:	NH 019-3(496)
FILE NAME: zb008s6-xs.dgn	PLOT DATE: 2/23/2017
PROJECT LEADER: C. BEAN	DRAWN BY: N. LEMAY
DESIGNED BY: D. MUNRO	CHECKED BY: D. MUNRO
	SHEET 539 OF 601

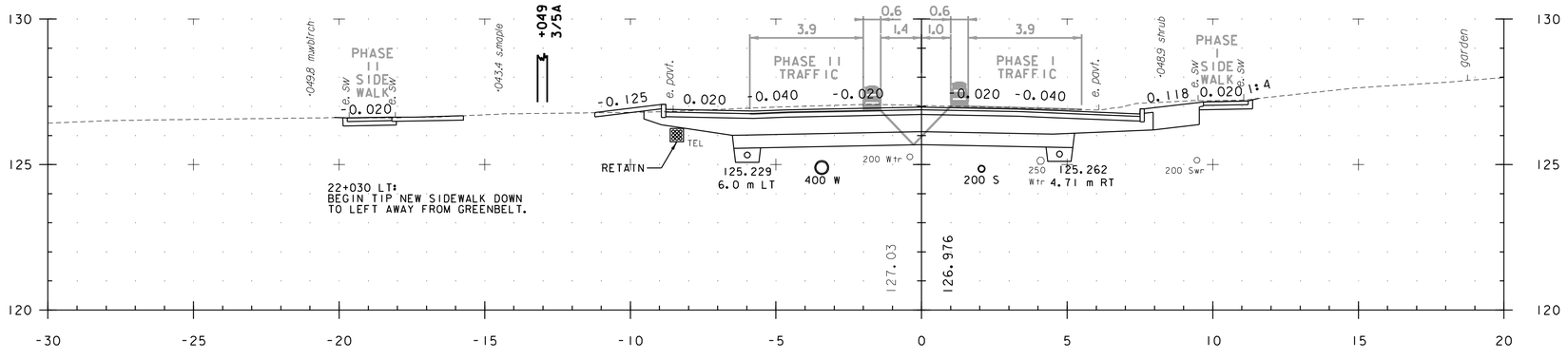
CLD 02-0448 MODEL: 67



22+063.0



22+060.0

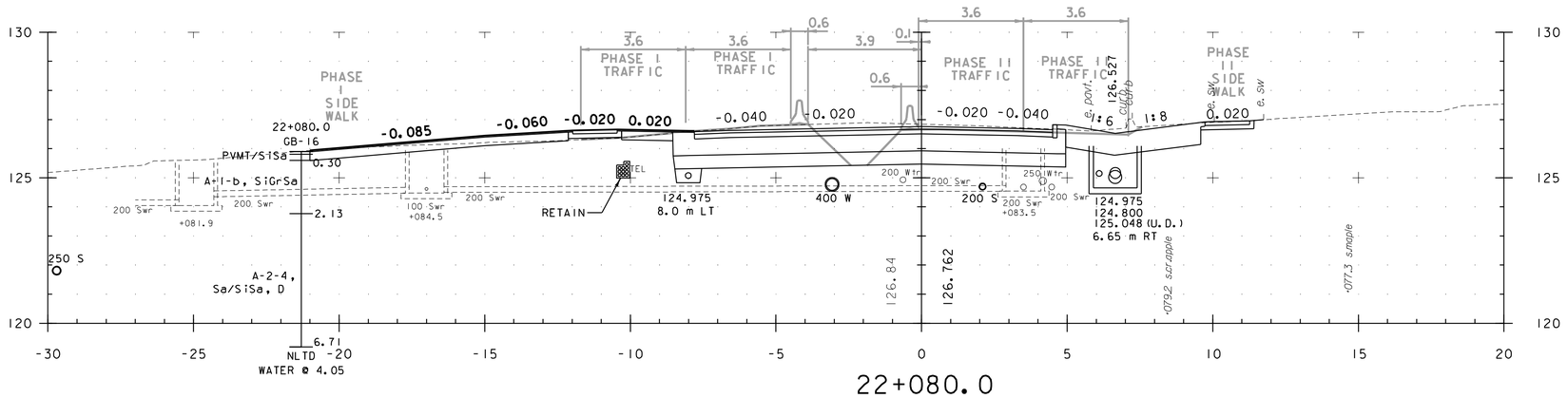


22+040.0

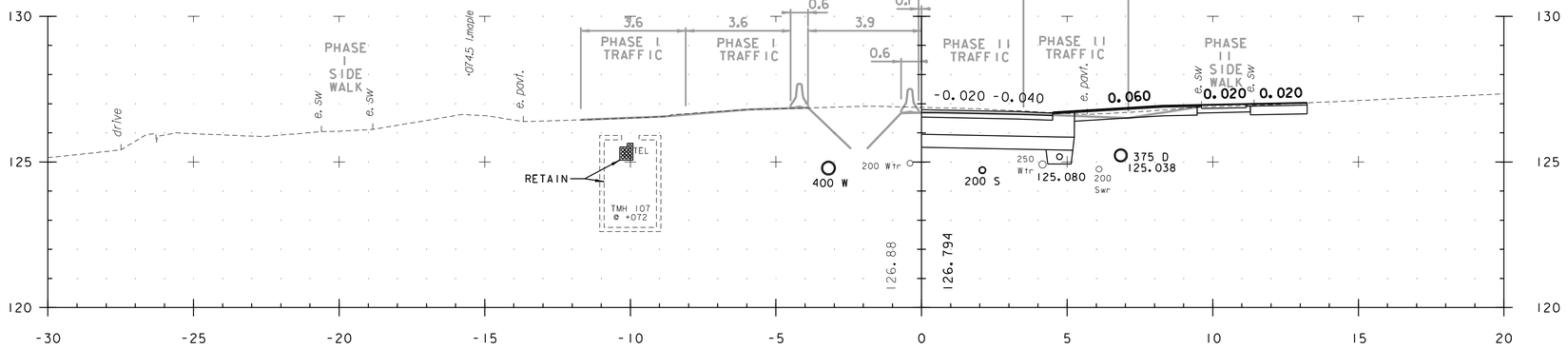
0 2 4 6 8 10
SCALE IN METERS

PROJECT NAME:	BRANDON
PROJECT NUMBER:	NH 019-3(496)
FILE NAME: zb008s6-xs.dgn	PLOT DATE: 2/23/2017
PROJECT LEADER: C. BEAN	DRAWN BY: N. LEMAY
DESIGNED BY: D. MUNRO	CHECKED BY: D. MUNRO
	SHEET 540 OF 601

CLD 02-0448 MODEL: 68



22+080.0
DRIVE LT



22+074.0
DRIVE RT

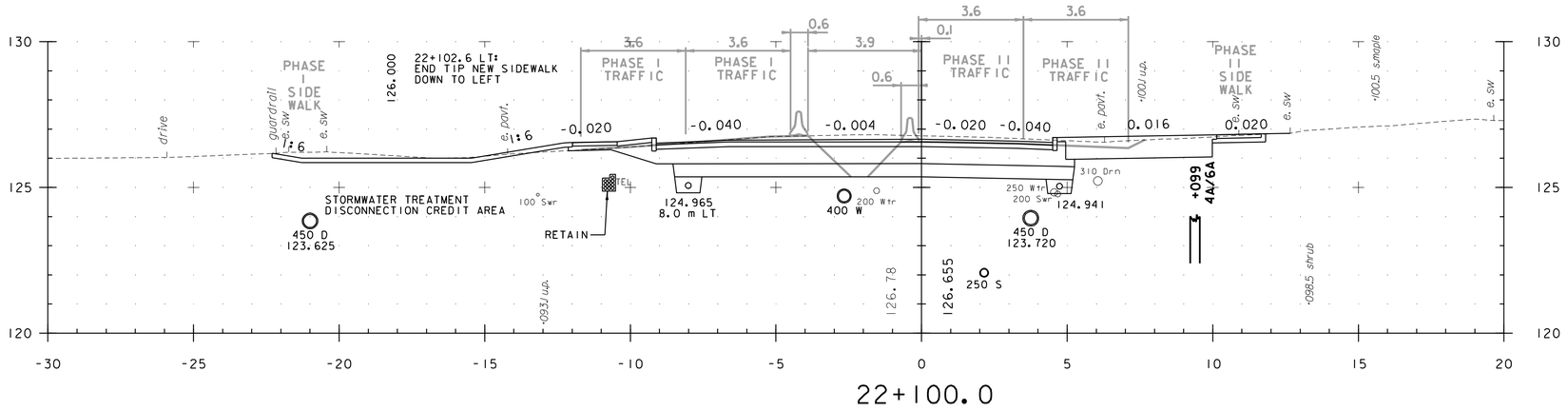
0 2 4 6 8 10
SCALE IN METERS

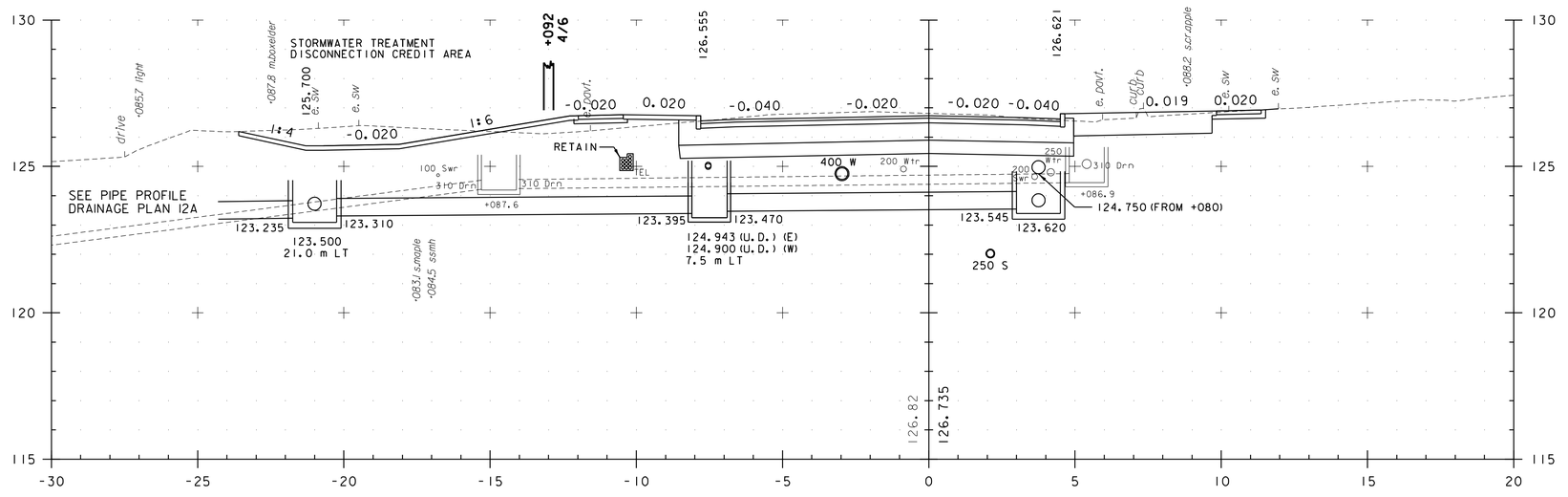
PROJECT NAME:	BRANDON
PROJECT NUMBER:	NH 019-3(496)
FILE NAME: zb008s6-xs.dgn	PLOT DATE: 2/23/2017
PROJECT LEADER: C. BEAN	DRAWN BY: N. LEMAY
DESIGNED BY: D. MUNRO	CHECKED BY: D. MUNRO
	SHEET 541 OF 601

CLD 02-0448 MODEL: 69

ISSUED FOR CONSTRUCTION

VAOT Metric



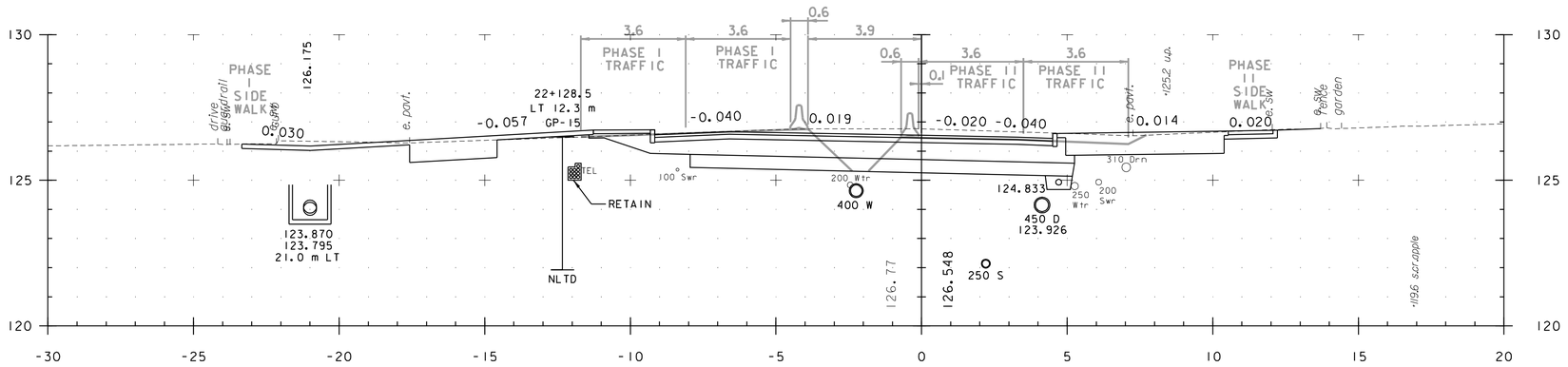


0 2 4 6 8 10
SCALE IN METERS

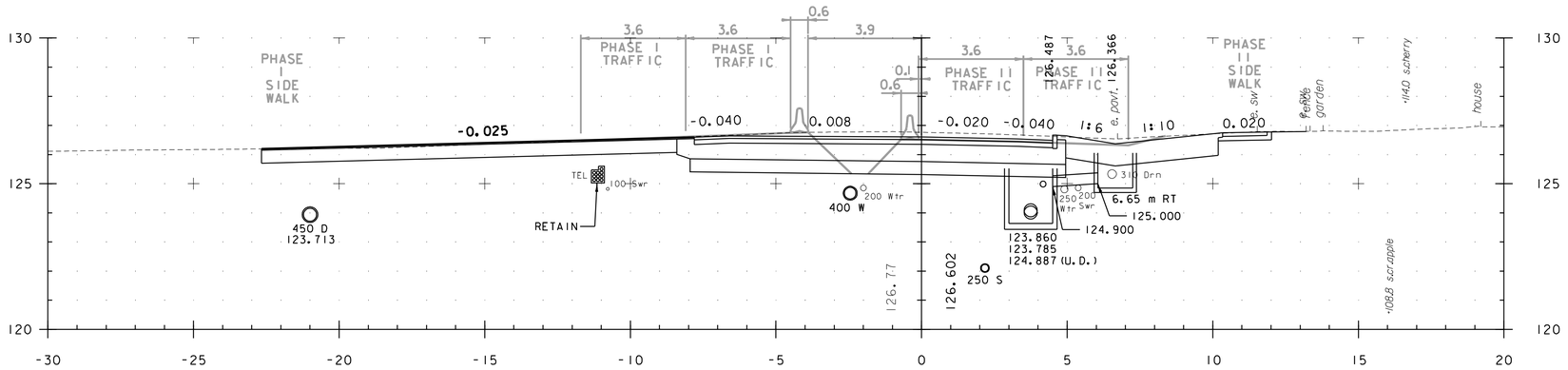
PROJECT NAME:	BRANDON
PROJECT NUMBER:	NH 019-3(496)
FILE NAME: zb008s6-xs.dgn	PLOT DATE: 2/23/2017
PROJECT LEADER: C. BEAN	DRAWN BY: N. LEMAY
DESIGNED BY: D. MUNRO	CHECKED BY: D. MUNRO
	SHEET 542 OF 601

CLD 02-0448 MODEL: 70

ISSUED FOR CONSTRUCTION

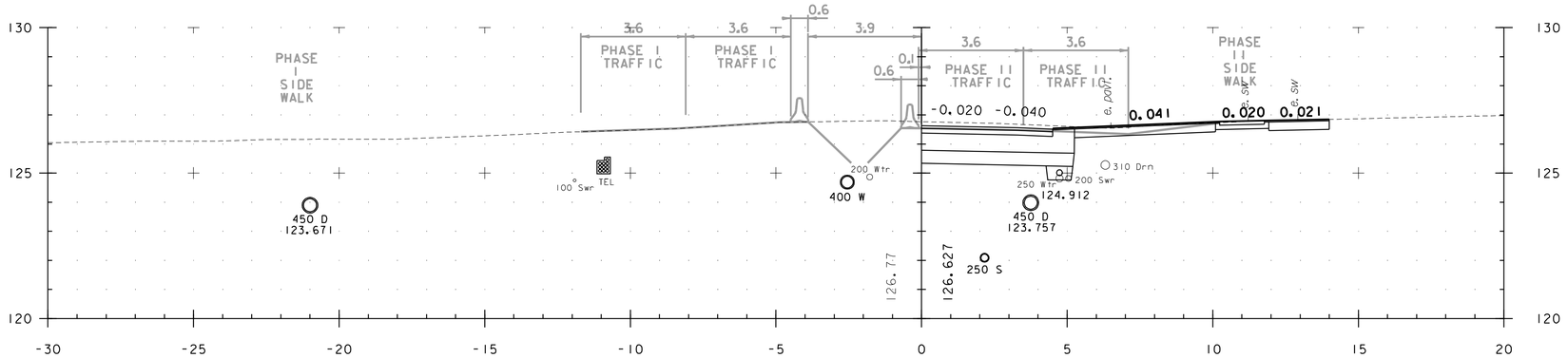


22+120.0



22+110.0

DRIVE LT



22+105.3

DRIVE RT

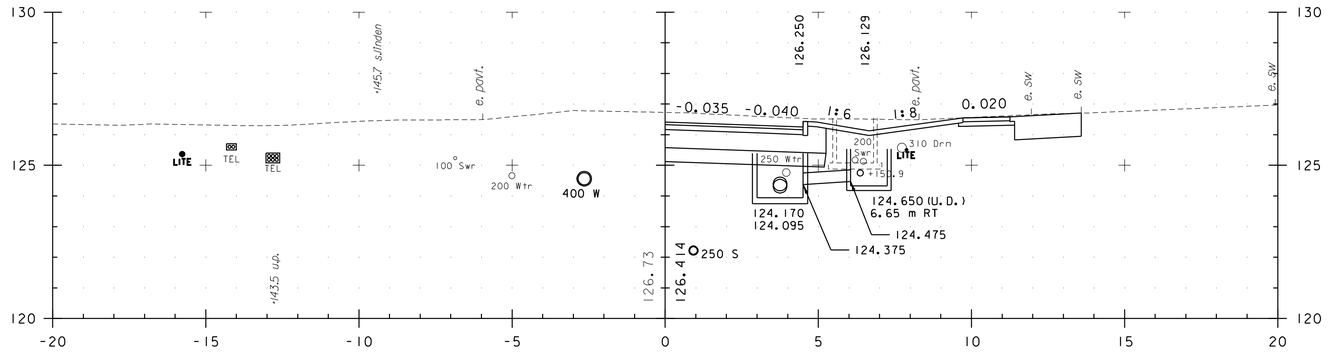
0 2 4 6 8 10

SCALE IN METERS

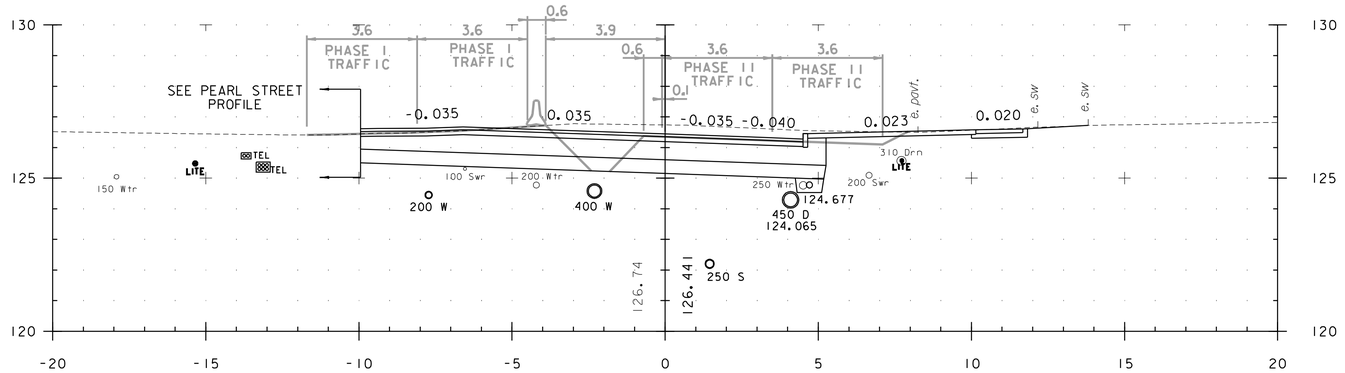
PROJECT NAME:	BRANDON
PROJECT NUMBER:	NH 019-3(496)
FILE NAME: zb008s6-xs.dgn	PLOT DATE: 2/23/2017
PROJECT LEADER: C. BEAN	DRAWN BY: N. LEMAY
DESIGNED BY: D. MUNRO	CHECKED BY: D. MUNRO
	SHEET 543 OF 601

CLD 02-0448 MODEL: 71

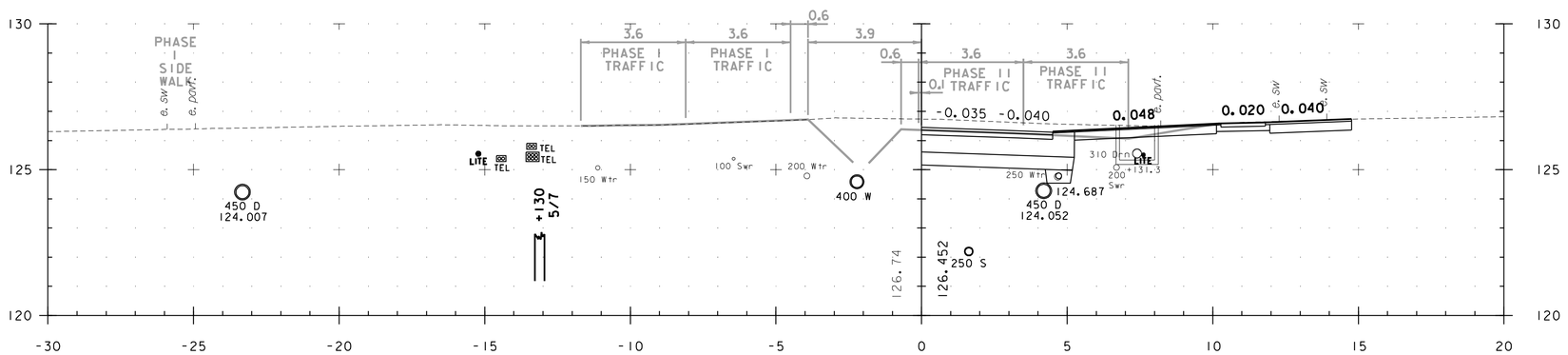
ISSUED FOR CONSTRUCTION



22+145.0



22+140.0



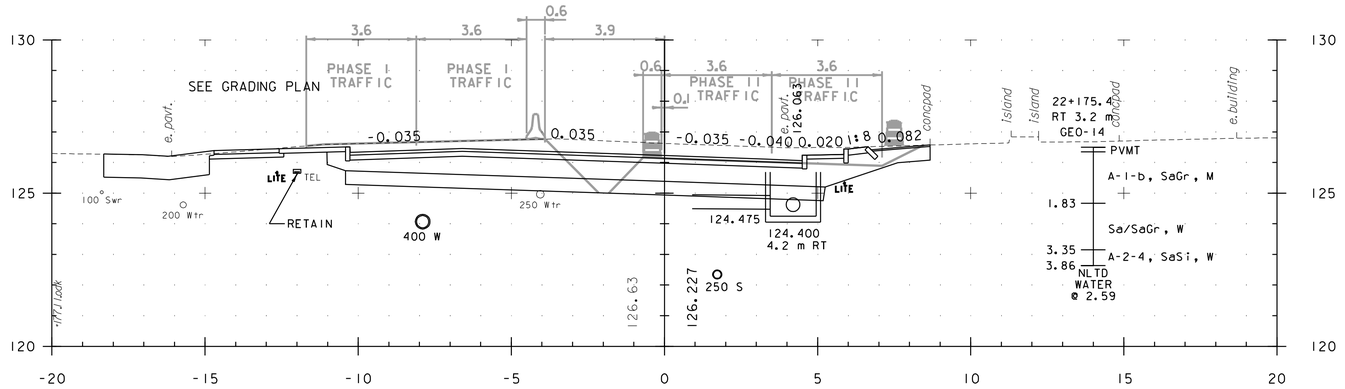
22+138.0
DRIVE RT

0 2 4 6 8 10
SCALE IN METERS

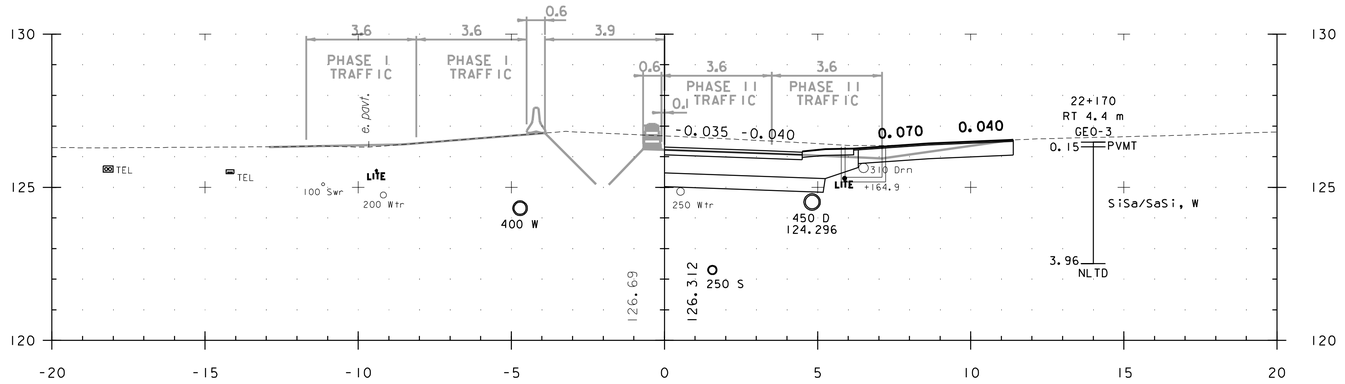
PROJECT NAME: BRANDON
PROJECT NUMBER: NH 019-3(496)

FILE NAME: zb008s6-xs.dgn
PROJECT LEADER: C. BEAN
DESIGNED BY: D. MUNRO
PLOT DATE: 2/23/2017
DRAWN BY: N. LEMAY
CHECKED BY: D. MUNRO
SHEET 544 OF 601

CLD 02-0448 MODEL: 72

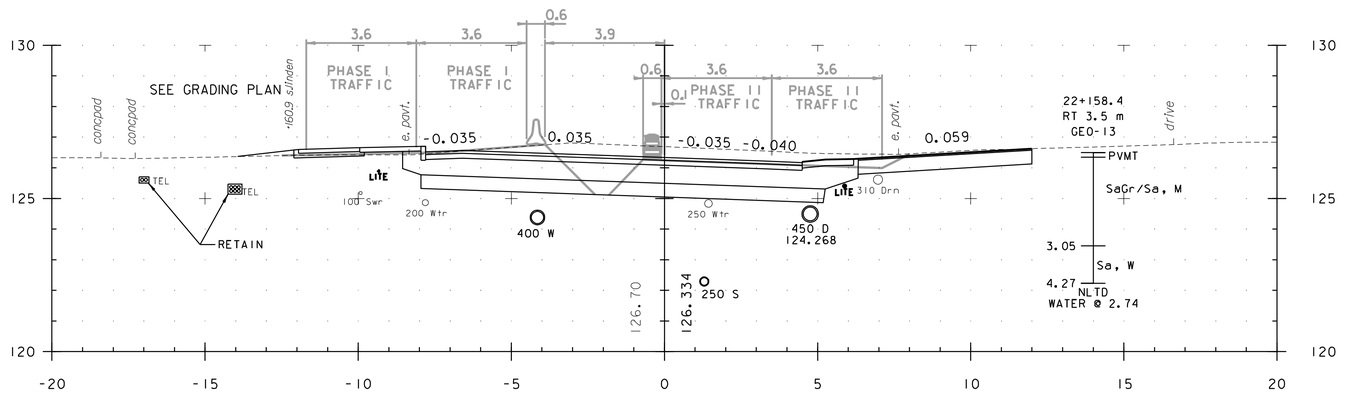


22+180.0



22+164.1

DRIVE RT

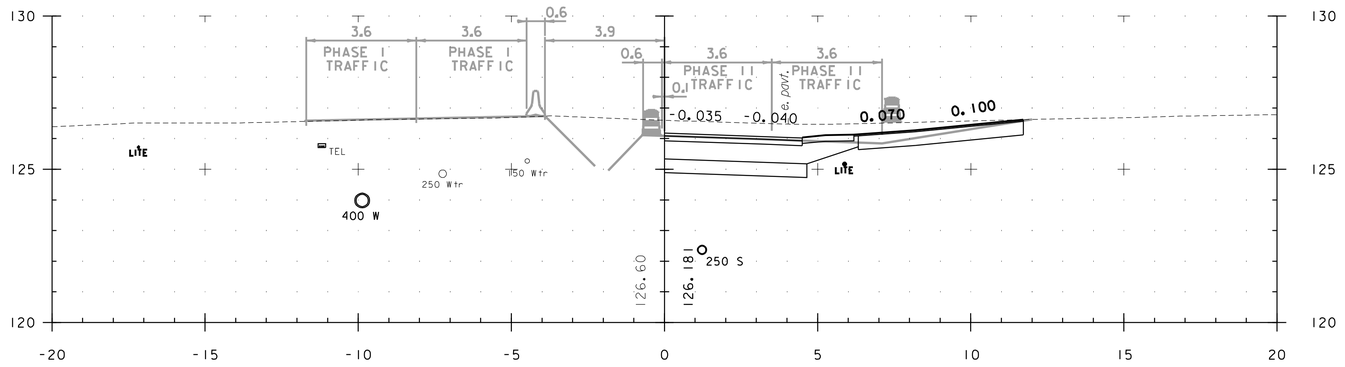


22+160.0

0 2 4 6 8 10
SCALE IN METERS

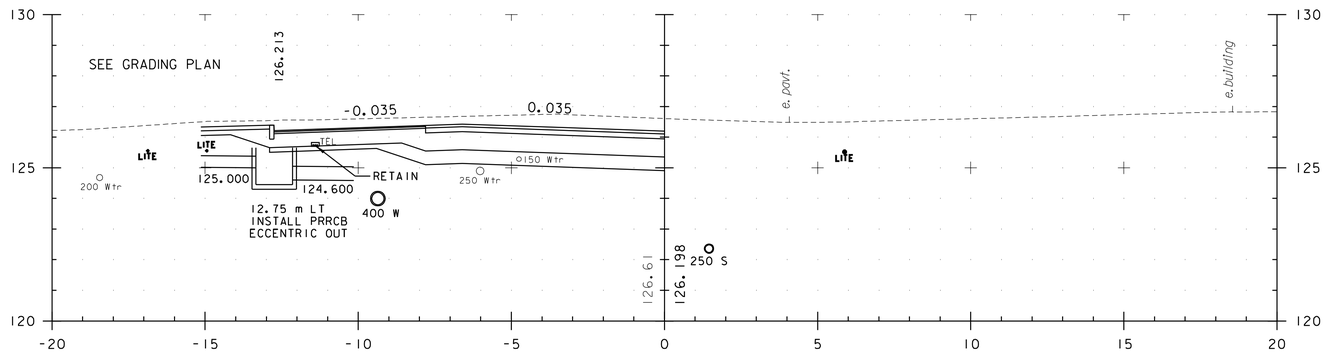
PROJECT NAME:	BRANDON
PROJECT NUMBER:	NH 019-3(496)
FILE NAME: zb008s6-xs.dgn	PLOT DATE: 2/23/2017
PROJECT LEADER: C. BEAN	DRAWN BY: N. LEMAY
DESIGNED BY: D. MUNRO	CHECKED BY: D. MUNRO
	SHEET 545 OF 601

CLD 02-0448 MODEL: 73

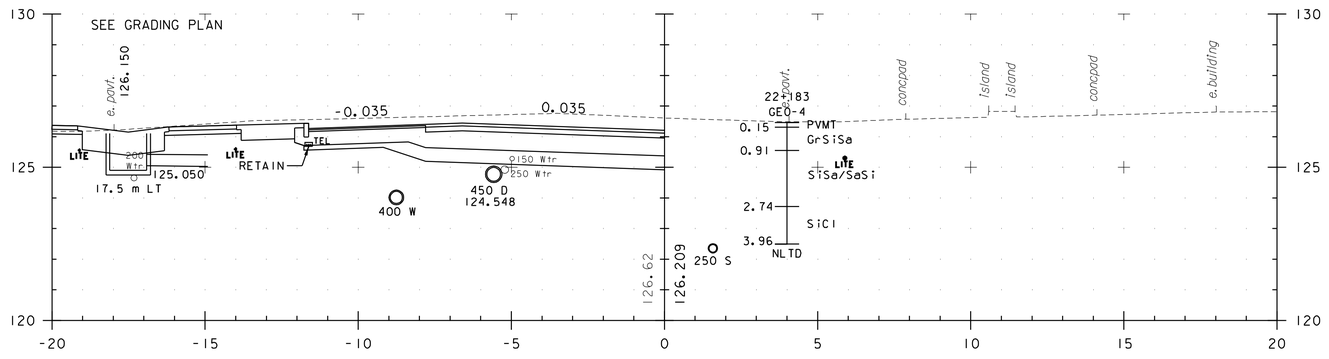


22+188.6

DRIVE RT



22+185.5



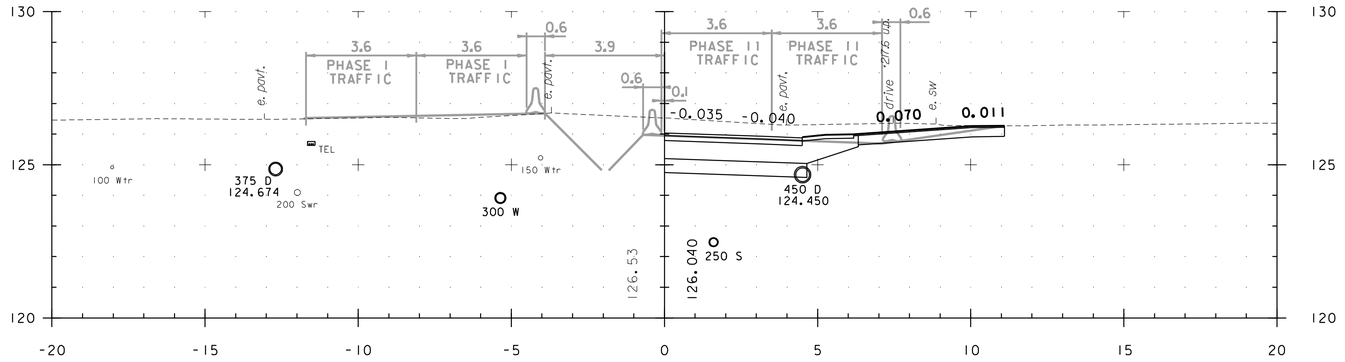
22+183.3

0 2 4 6 8 10
SCALE IN METERS

PROJECT NAME:	BRANDON
PROJECT NUMBER:	NH 019-3(496)
FILE NAME: zb008s6-xs.dgn	PLOT DATE: 2/23/2017
PROJECT LEADER: C. BEAN	DRAWN BY: N. LEMAY
DESIGNED BY: D. MUNRO	CHECKED BY: D. MUNRO
	SHEET 546 OF 601

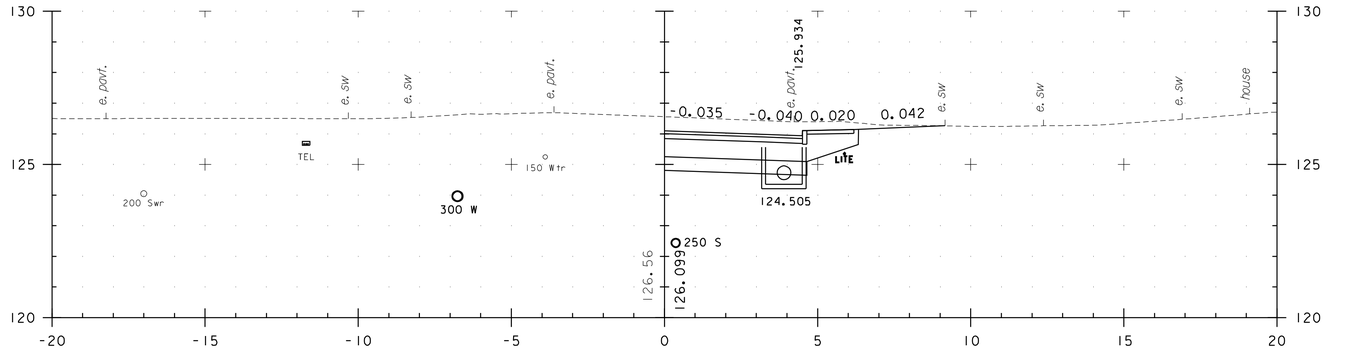
CLD 02-0448 MODEL: 74

ISSUED FOR CONSTRUCTION

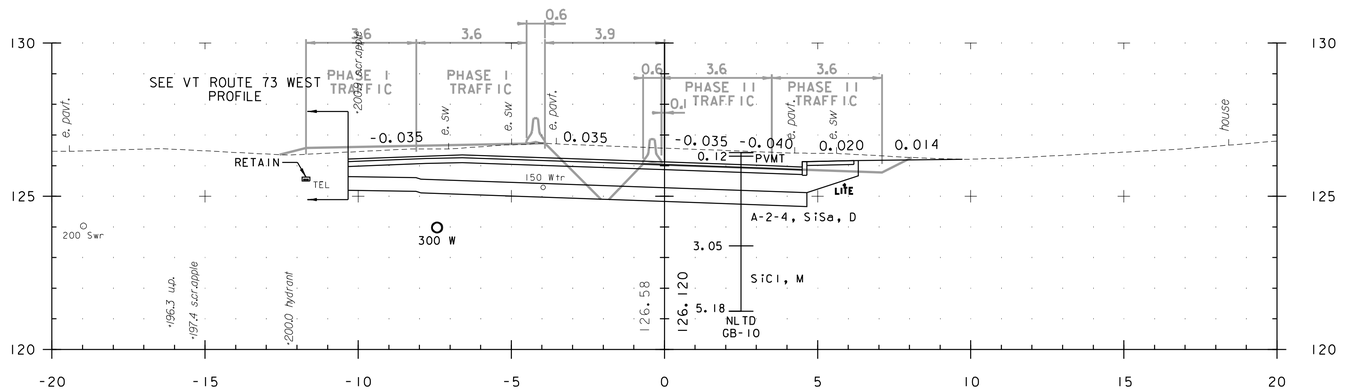


22+215.7

DRIVE RT



22+204.0



22+200.0

0 2 4 6 8 10

SCALE IN METERS

PROJECT NAME: BRANDON

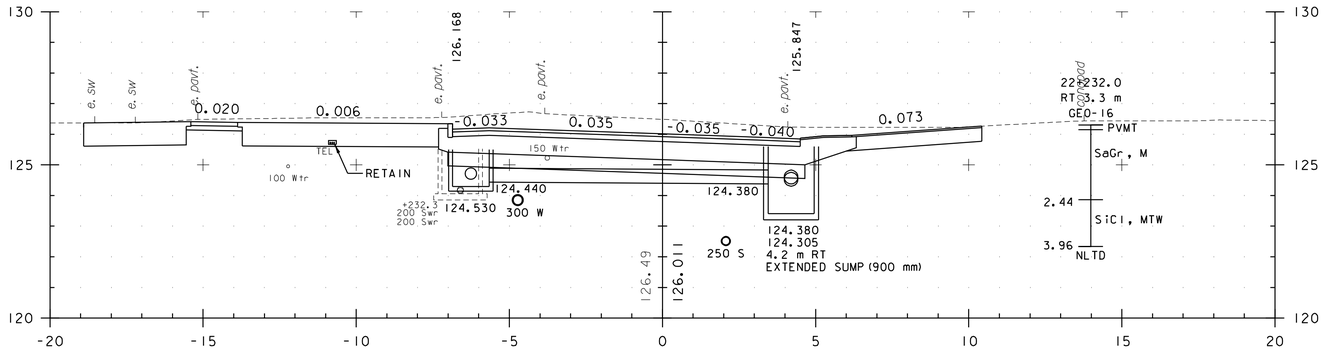
PROJECT NUMBER: NH 019-3(496)

FILE NAME: zb008s6-xs.dgn
PROJECT LEADER: C. BEAN
DESIGNED BY: D. MUNRO

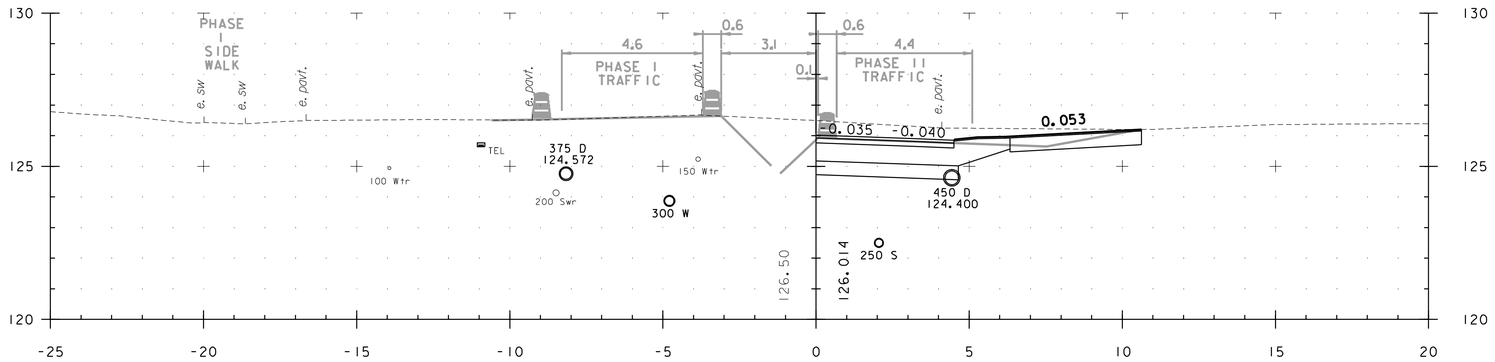
PLOT DATE: 2/23/2017
DRAWN BY: N. LEMAY
CHECKED BY: D. MUNRO
SHEET 547 OF 601

CLD 02-0448 MODEL: 75

ISSUED FOR CONSTRUCTION

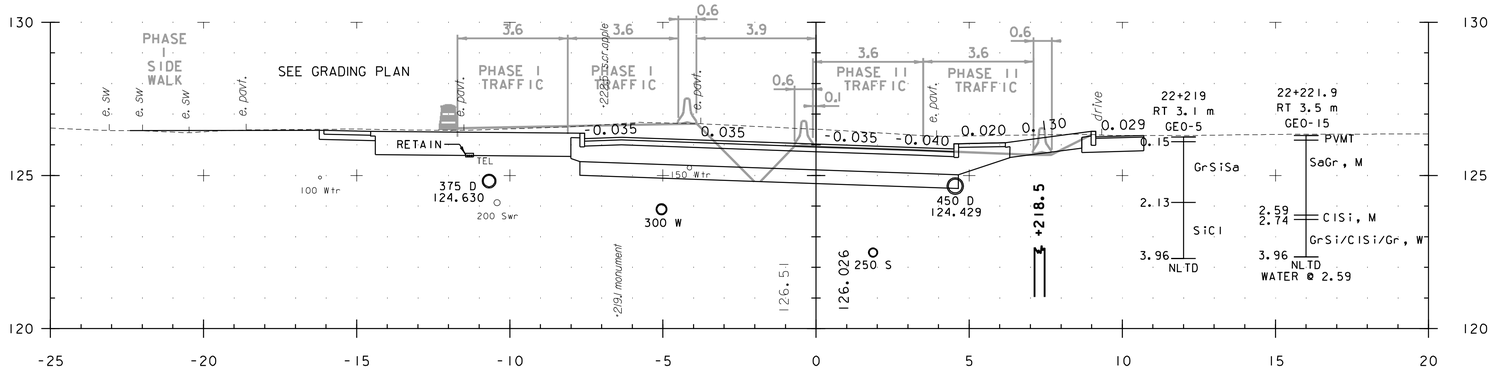


22+230.7



22+225.8

DRIVE RT



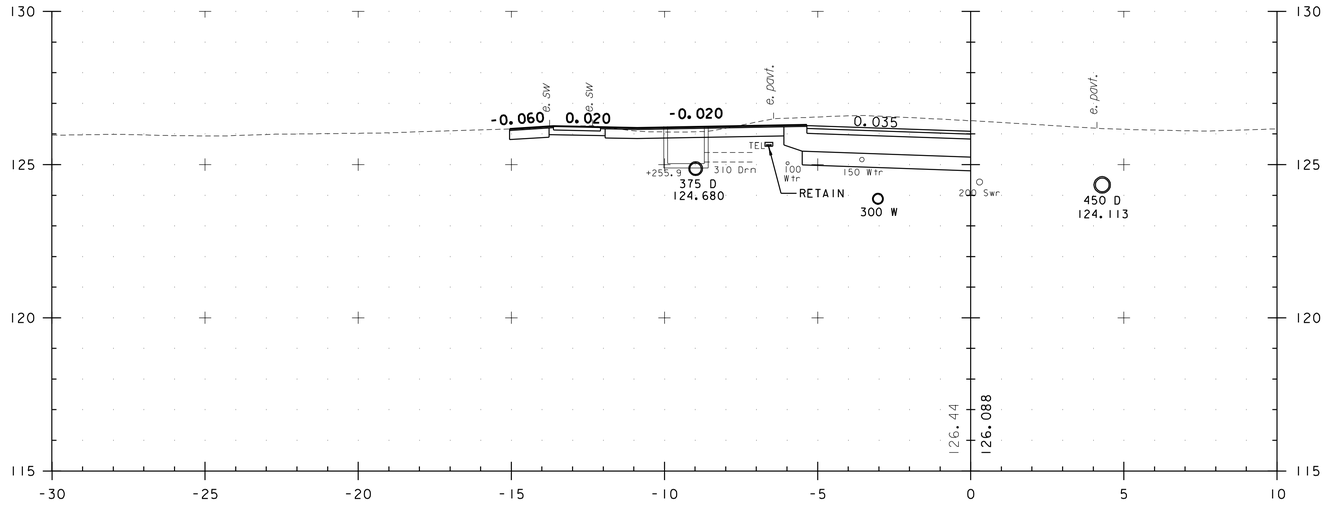
22+220.0

0 2 4 6 8 10
SCALE IN METERS

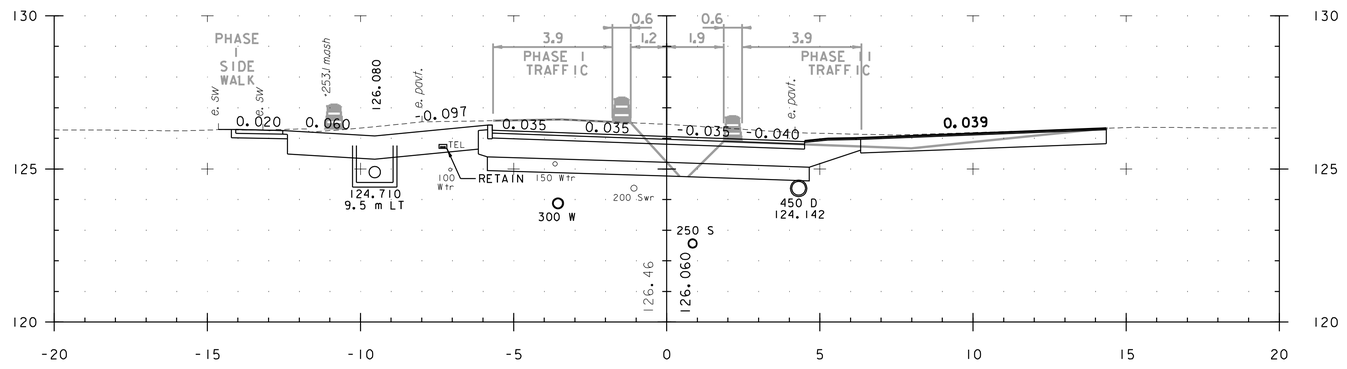
PROJECT NAME:	BRANDON
PROJECT NUMBER:	NH 019-3(496)
FILE NAME: zb008s6-xs.dgn	PLOT DATE: 2/23/2017
PROJECT LEADER: C. BEAN	DRAWN BY: N. LEMAY
DESIGNED BY: D. MUNRO	CHECKED BY: D. MUNRO
	SHEET 548 OF 601

CLD 02-0448 MODEL: 76

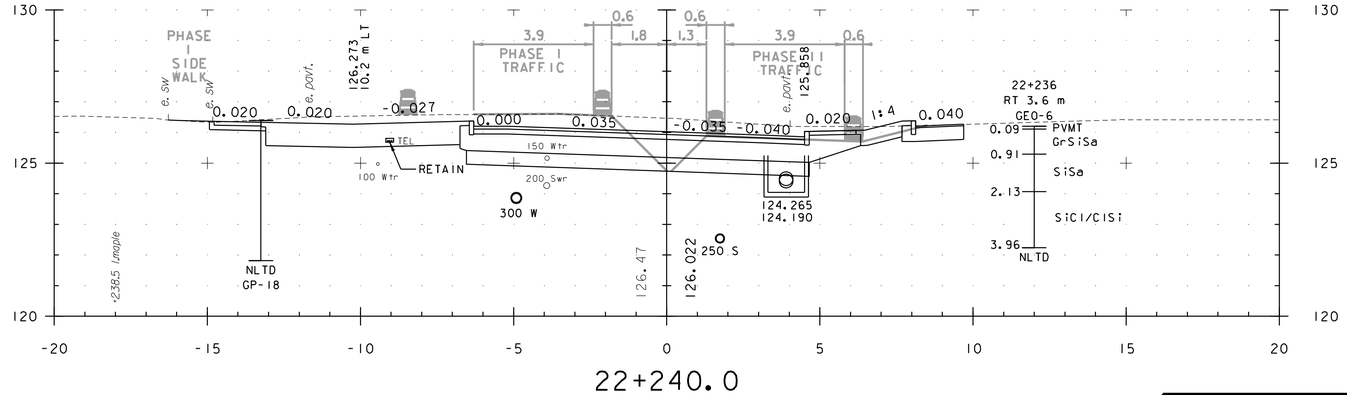
ISSUED FOR CONSTRUCTION



22+255.8
DRIVE LT



22+250.0
DRIVE RT



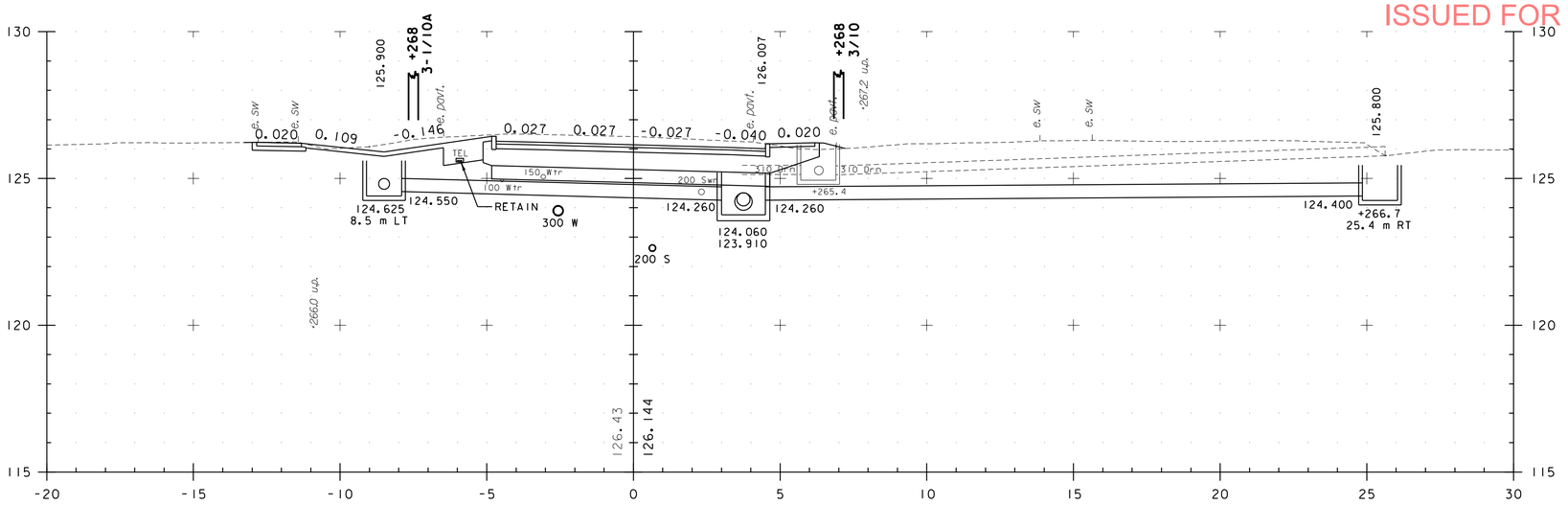
22+240.0

0 2 4 6 8 10
SCALE IN METERS

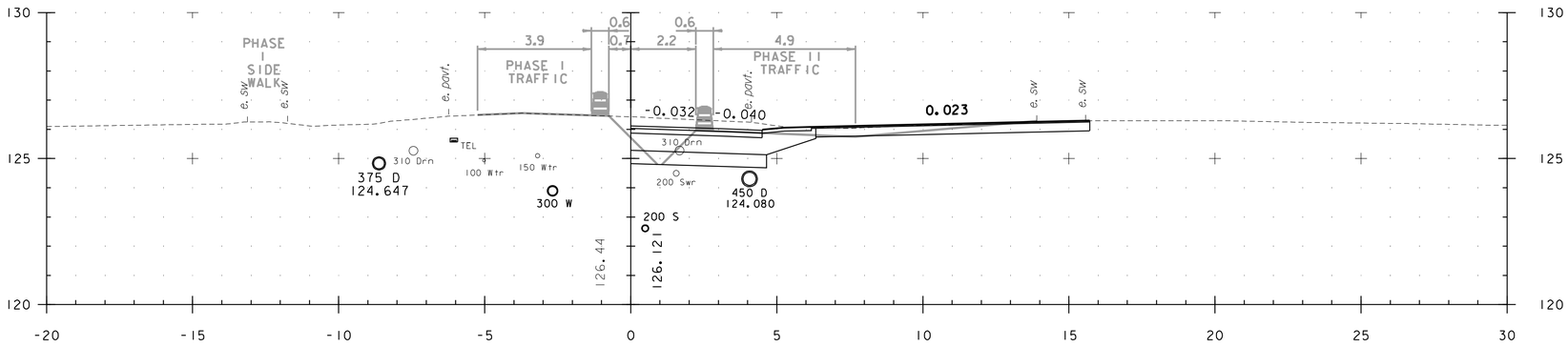
PROJECT NAME:	BRANDON
PROJECT NUMBER:	NH 019-3(496)
FILE NAME: zb008s6-xs.dgn	PLOT DATE: 2/23/2017
PROJECT LEADER: C. BEAN	DRAWN BY: N. LEMAY
DESIGNED BY: D. MUNRO	CHECKED BY: D. MUNRO
	SHEET 549 OF 601

CLD 02-0448 MODEL: 77

ISSUED FOR CONSTRUCTION



22+267.0



22+262.2

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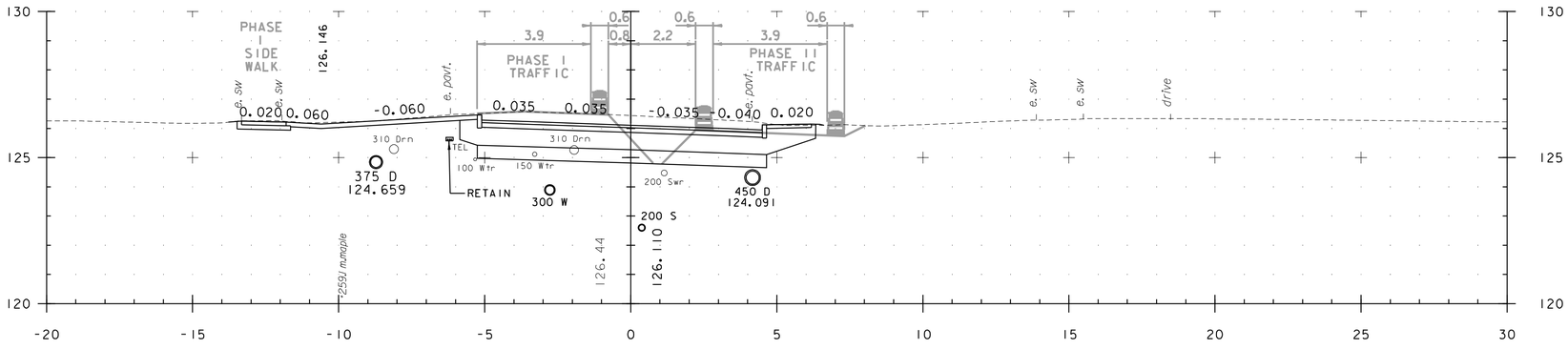


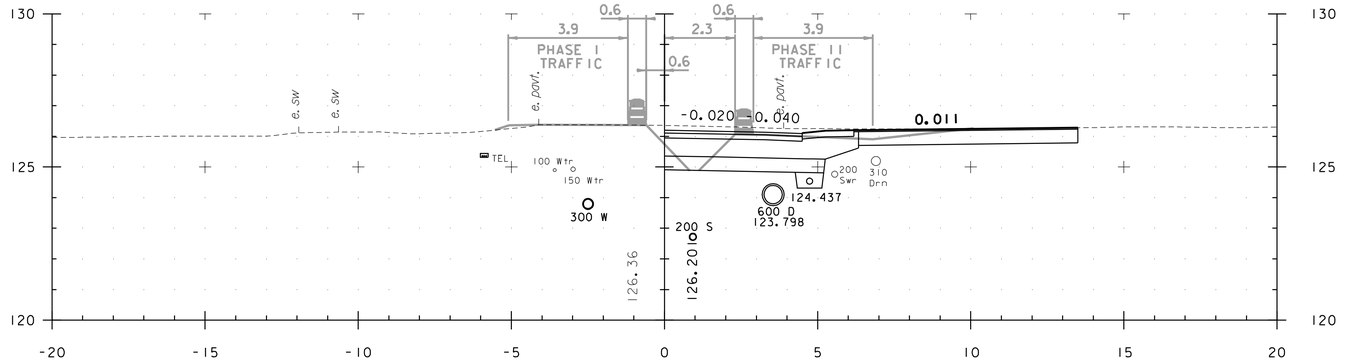
22+260.0

0 2 4 6 8 10

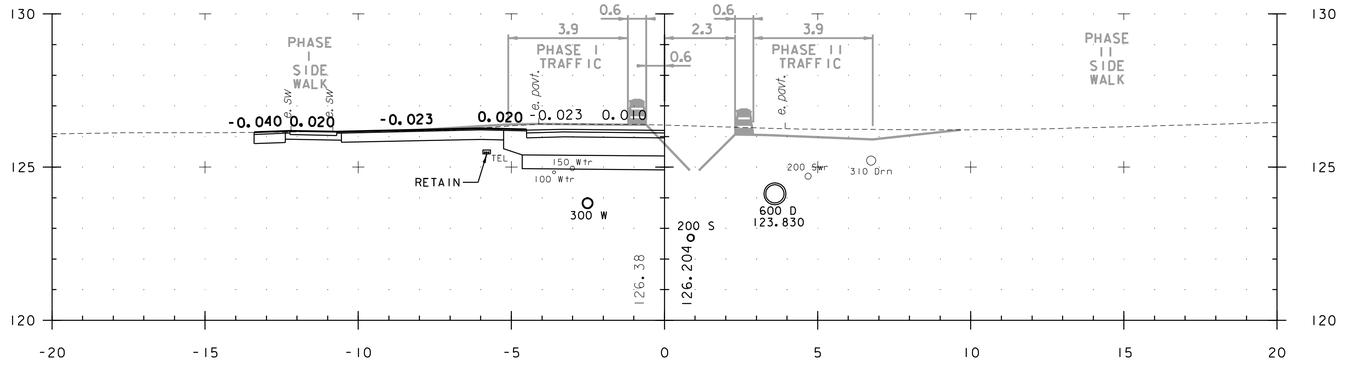
SCALE IN METERS

PROJECT NAME:	BRANDON
PROJECT NUMBER:	NH 019-3(496)
FILE NAME: zb008s6-xs.dgn	PLOT DATE: 2/23/2017
PROJECT LEADER: C. BEAN	DRAWN BY: N. LEMAY
DESIGNED BY: D. MUNRO	CHECKED BY: D. MUNRO
	SHEET 550 OF 601

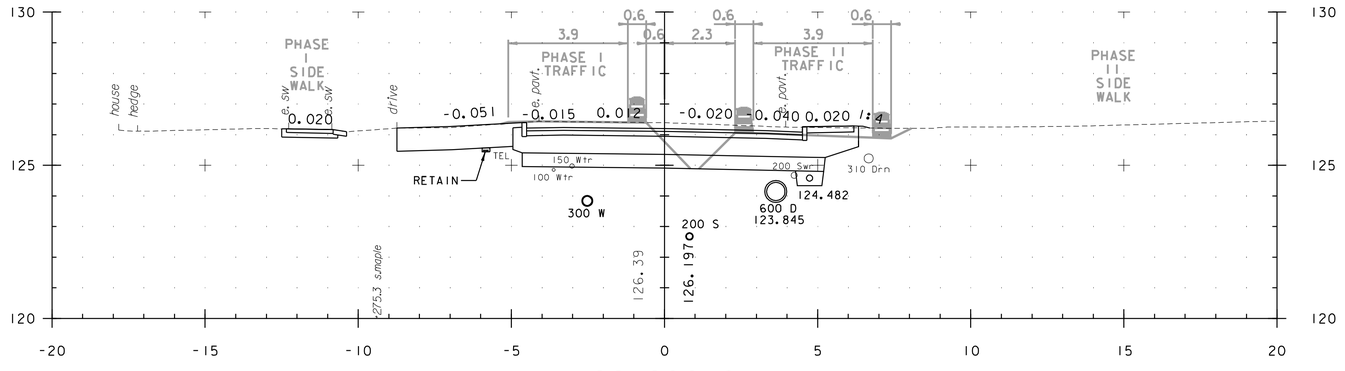
CLD 02-0448 MODEL: 78



22+289.1
DRIVE RT



22+283.1
DRIVE LT

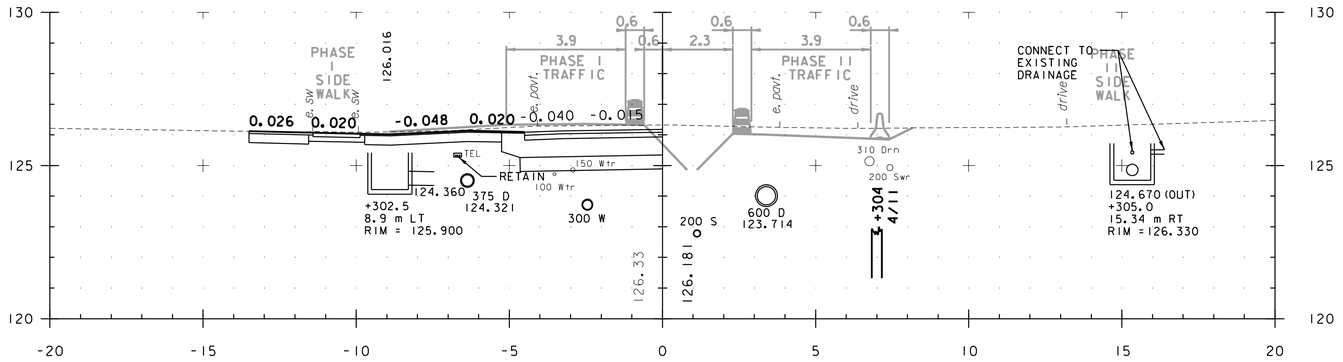


22+280.0

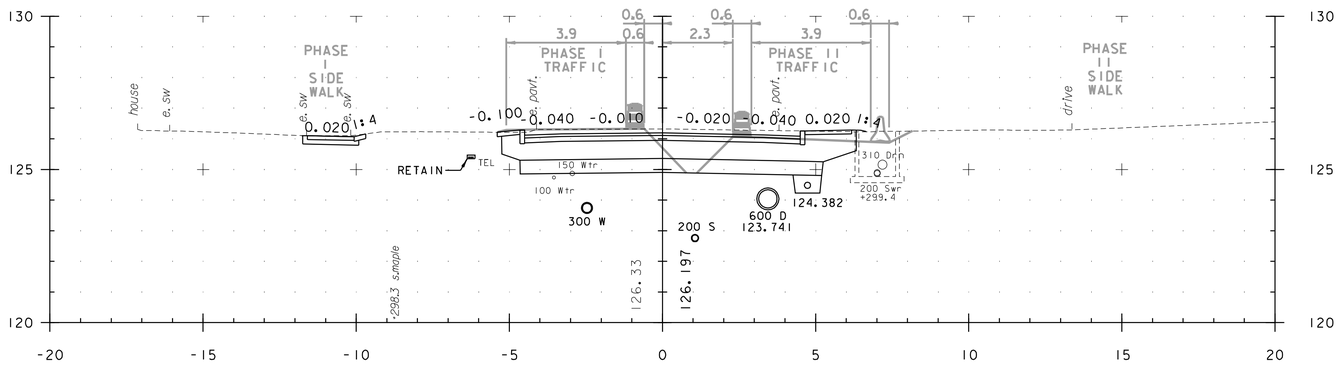
0 2 4 6 8 10
SCALE IN METERS

PROJECT NAME:	BRANDON
PROJECT NUMBER:	NH 019-3(496)
FILE NAME: zb008s6-xs.dgn	PLOT DATE: 2/23/2017
PROJECT LEADER: C. BEAN	DRAWN BY: N. LEMAY
DESIGNED BY: D. MUNRO	CHECKED BY: D. MUNRO
	SHEET 551 OF 601

CLD 02-0448 MODEL: 79



22+305.0
DRIVE LT



22+300.0

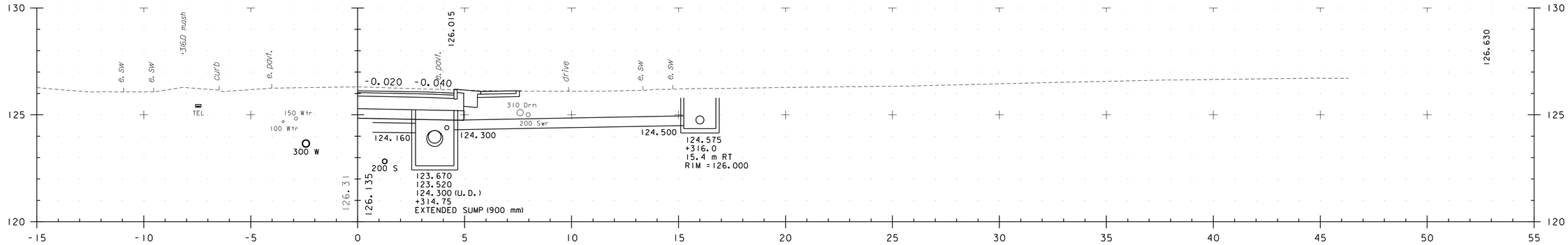
0 2 4 6 8 10
SCALE IN METERS

PROJECT NAME:	BRANDON
PROJECT NUMBER:	NH 019-3(496)
FILE NAME: zb008s6-xs.dgn	PLOT DATE: 2/23/2017
PROJECT LEADER: C. BEAN	DRAWN BY: N. LEMAY
DESIGNED BY: D. MUNRO	CHECKED BY: D. MUNRO
	SHEET 552 OF 601

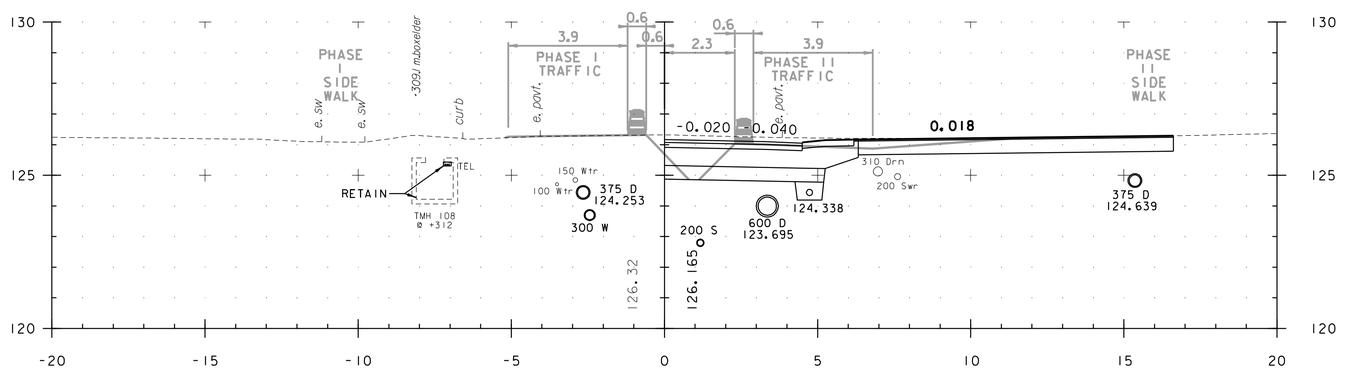
CLD 02-0448 MODEL: 80

ISSUED FOR CONSTRUCTION

Metric



22+315. 0



22+308. 8

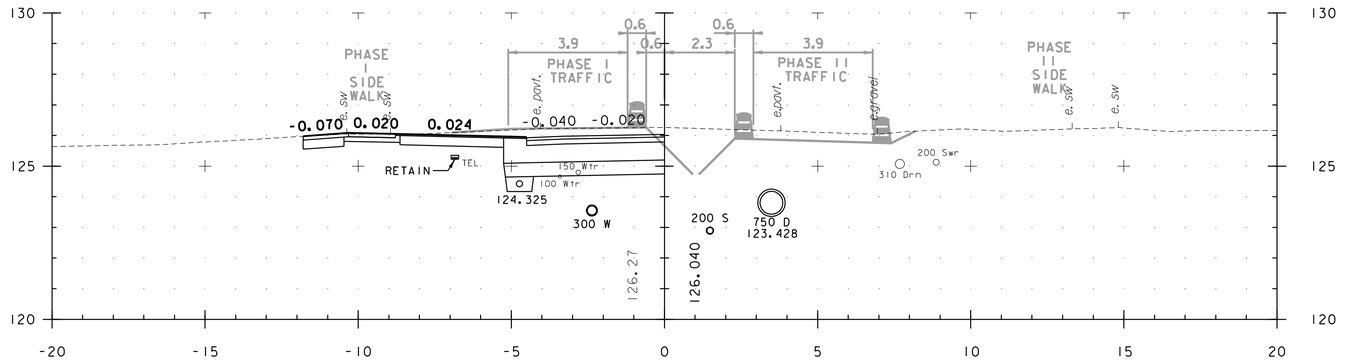
DRIVE RT

0 2 4 6 8 10

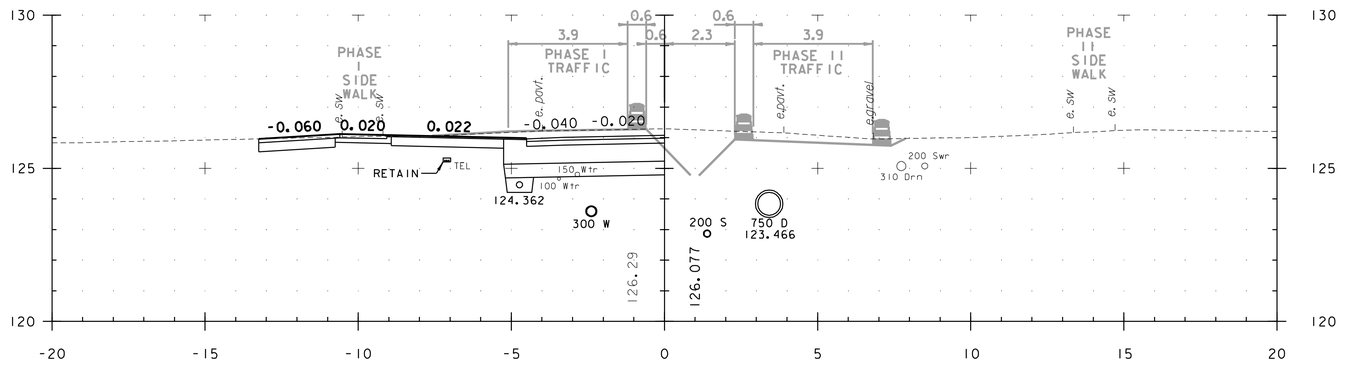
SCALE IN METERS

PROJECT NAME:	BRANDON
PROJECT NUMBER:	NH 019-3(496)
FILE NAME: zb008s6-xs.dgn	PLOT DATE: 2/23/2017
PROJECT LEADER: C. BEAN	DRAWN BY: N. LEMAY
DESIGNED BY: D. MUNRO	CHECKED BY: D. MUNRO
	SHEET 553 OF 601

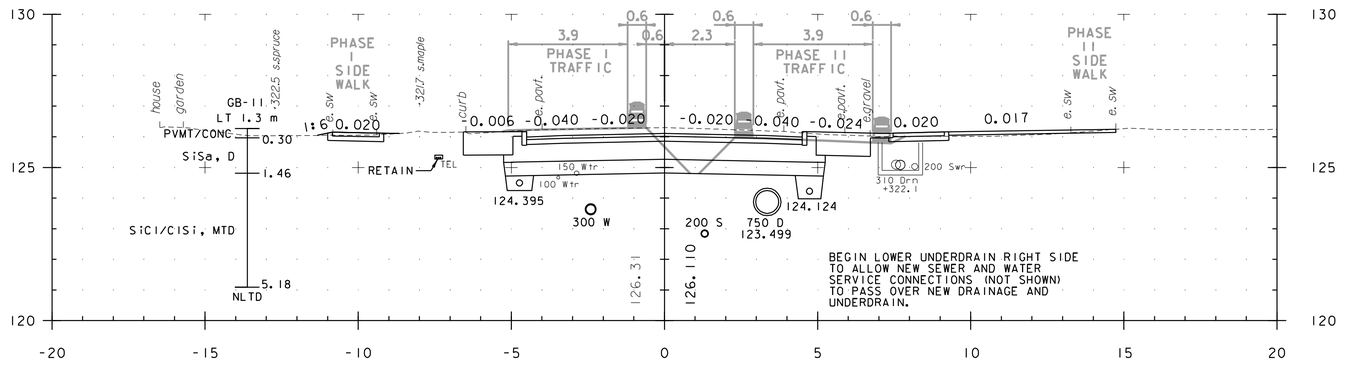
CLD 02-0448 MODEL: 81



22+334.0
DRIVE LT



22+326.5
DRIVE LT

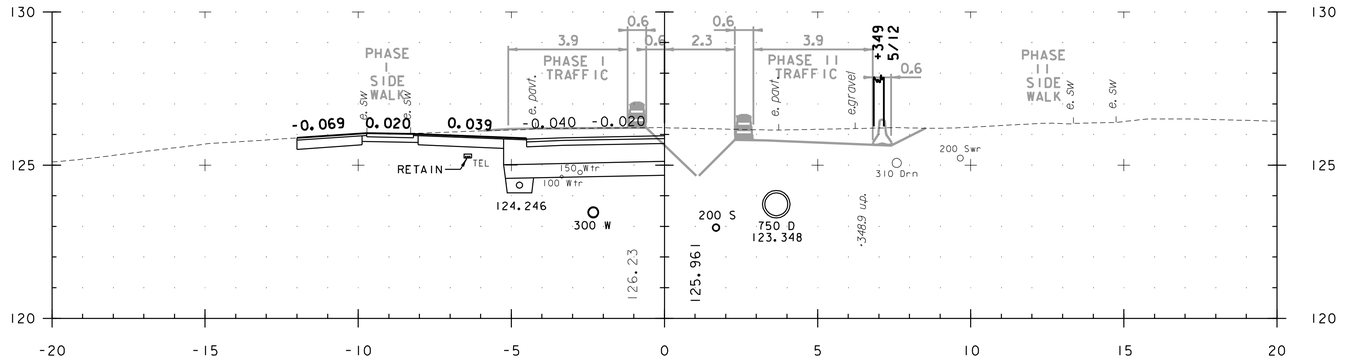


22+320.0

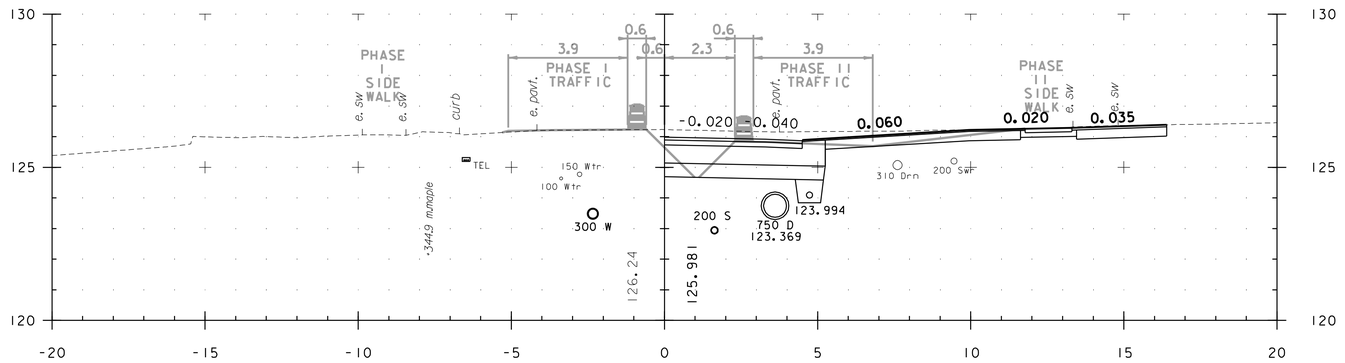
0 2 4 6 8 10
SCALE IN METERS

PROJECT NAME:	BRANDON
PROJECT NUMBER:	NH 019-3(496)
FILE NAME: zb008s6-xs.dgn	PLOT DATE: 2/23/2017
PROJECT LEADER: C. BEAN	DRAWN BY: N. LEMAY
DESIGNED BY: D. MUNRO	CHECKED BY: D. MUNRO
	SHEET 554 OF 601

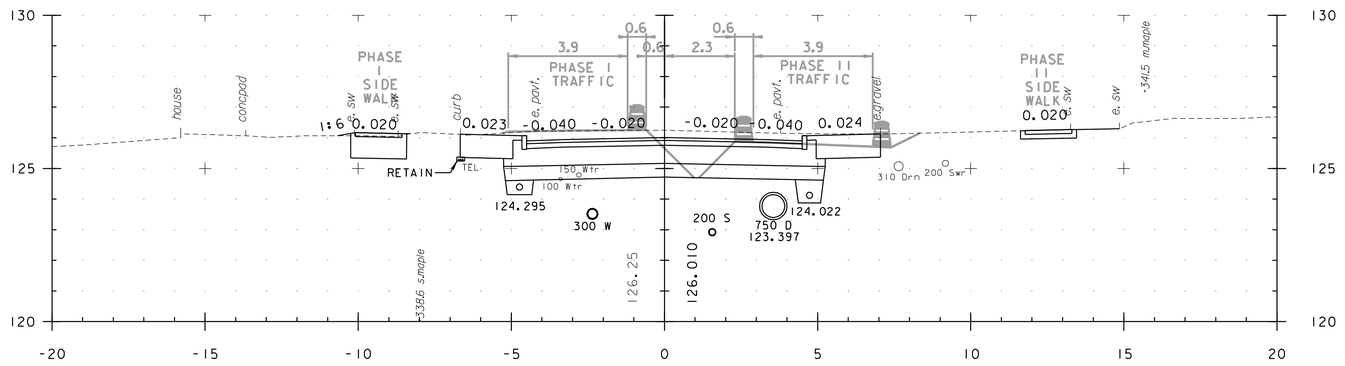
CLD 02-0448 MODEL: 82



22+349.7
DRIVE LT



22+345.6
DRIVE RT



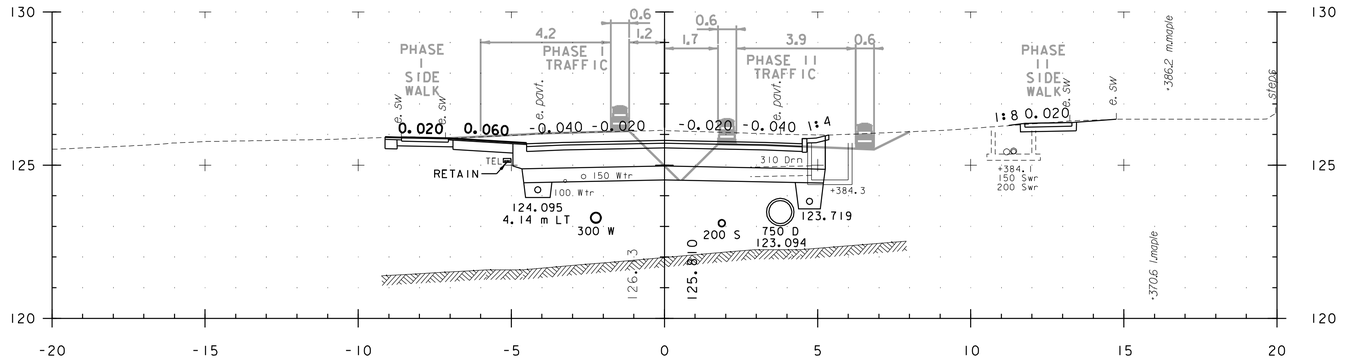
22+340.0

0 2 4 6 8 10
SCALE IN METERS

PROJECT NAME:	BRANDON
PROJECT NUMBER:	NH 019-3(496)
FILE NAME: zb008s6-xs.dgn	PLOT DATE: 2/23/2017
PROJECT LEADER: C. BEAN	DRAWN BY: N. LEMAY
DESIGNED BY: D. MUNRO	CHECKED BY: D. MUNRO
	SHEET 555 OF 601

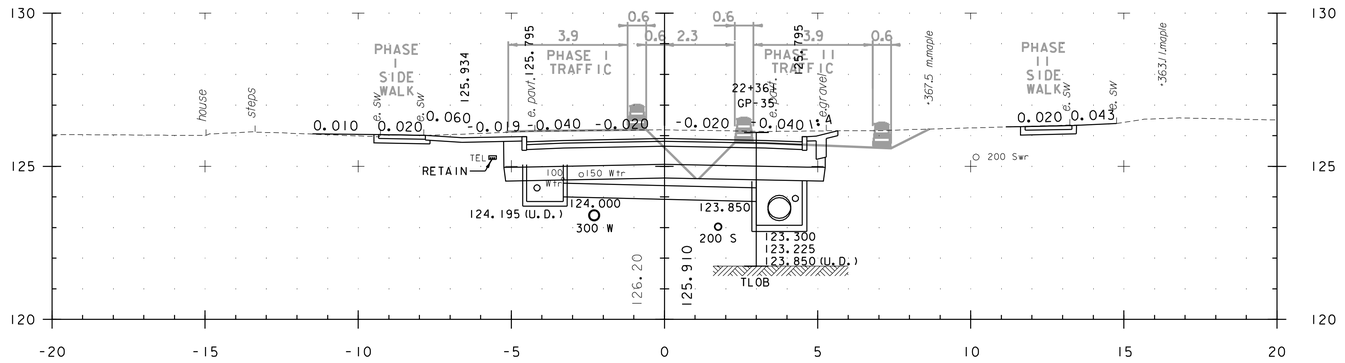
CLD 02-0448 MODEL: 83

ISSUED FOR CONSTRUCTION

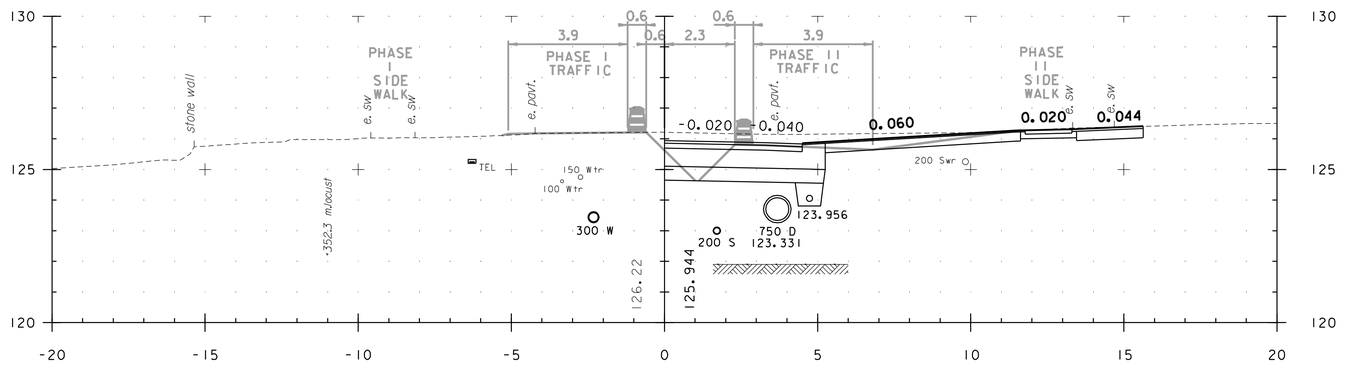


22+380.0

DRIVE LT



22+360.0



22+353.1

DRIVE RT

0 2 4 6 8 10

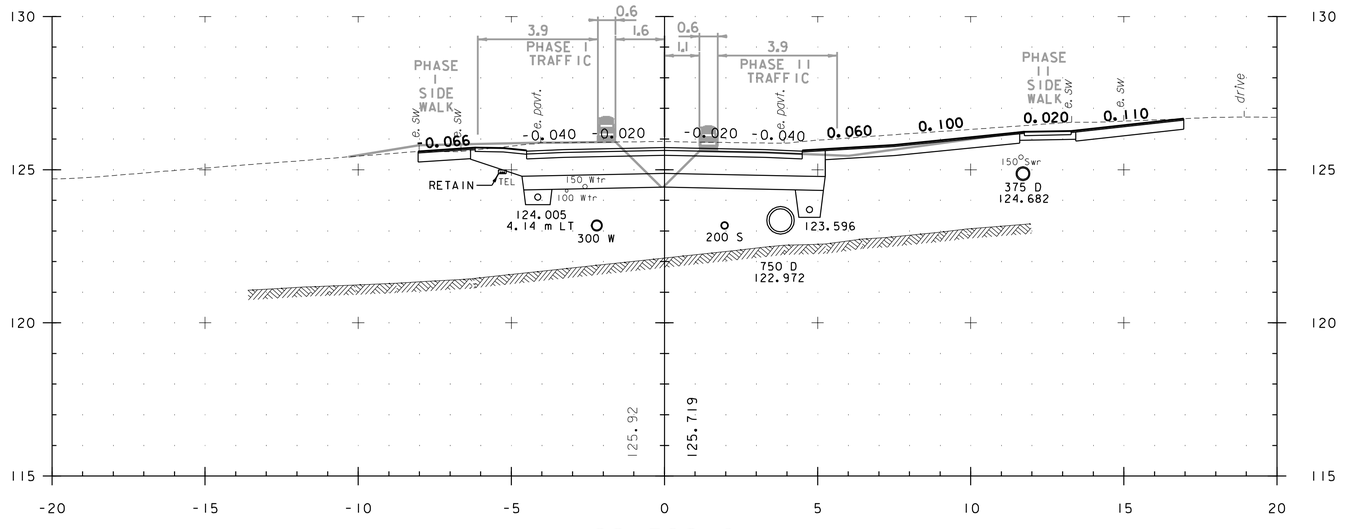
SCALE IN METERS

PROJECT NAME:	BRANDON
PROJECT NUMBER:	NH 019-3(496)
FILE NAME: zb008s6-xs.dgn	PLOT DATE: 2/23/2017
PROJECT LEADER: C. BEAN	DRAWN BY: N. LEMAY
DESIGNED BY: D. MUNRO	CHECKED BY: D. MUNRO
	SHEET 556 OF 601

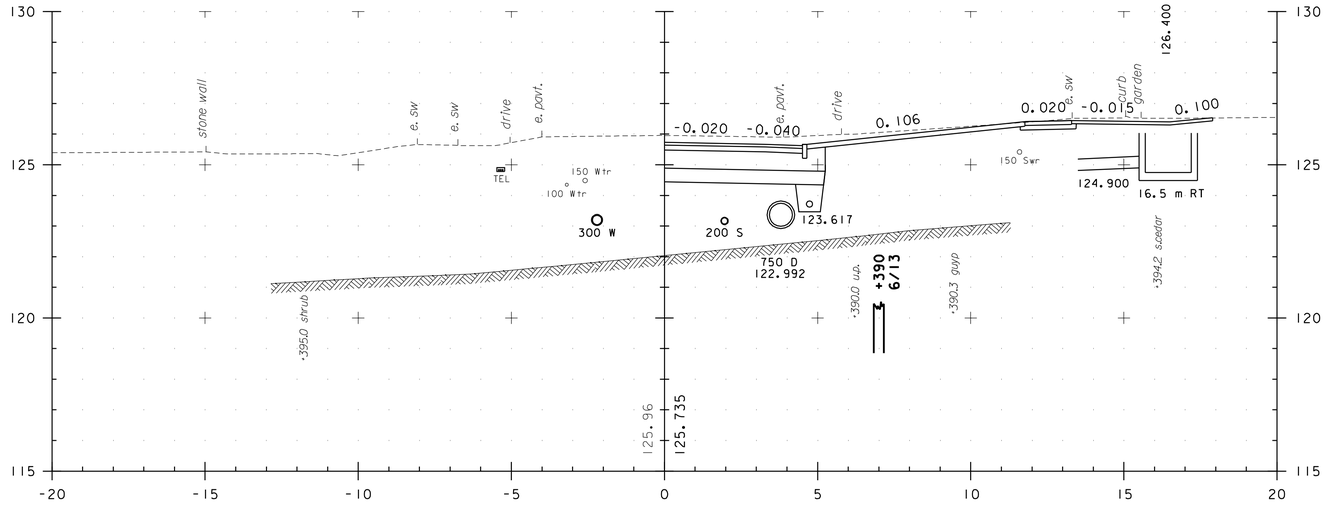
CLD 02-0448 MODEL: 84

ISSUED FOR CONSTRUCTION

VAOT Metric



DRIVE LT & RT

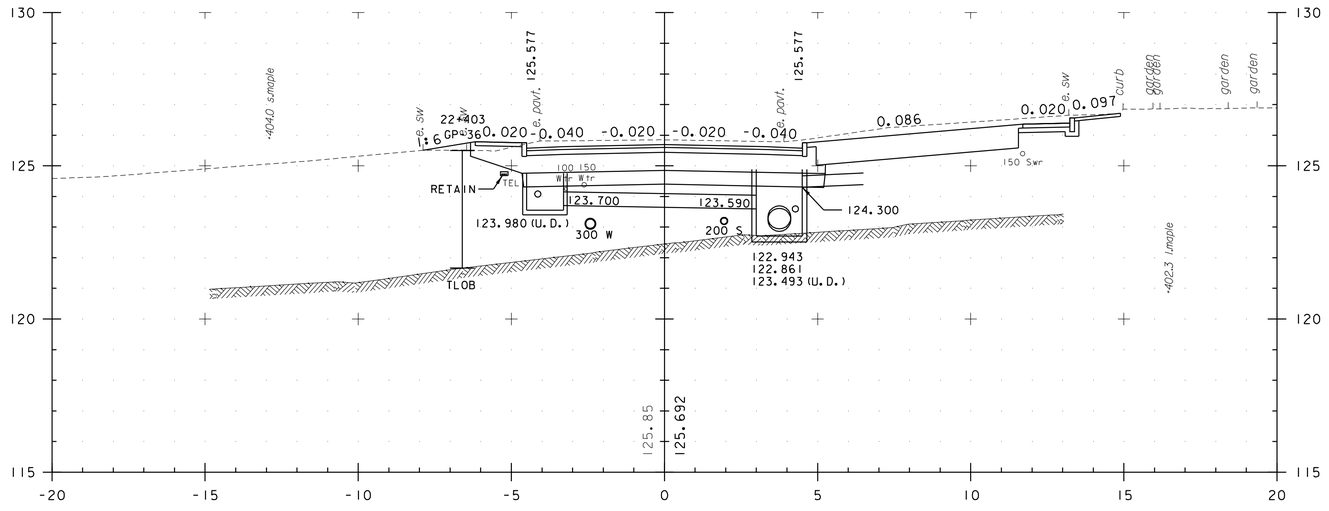


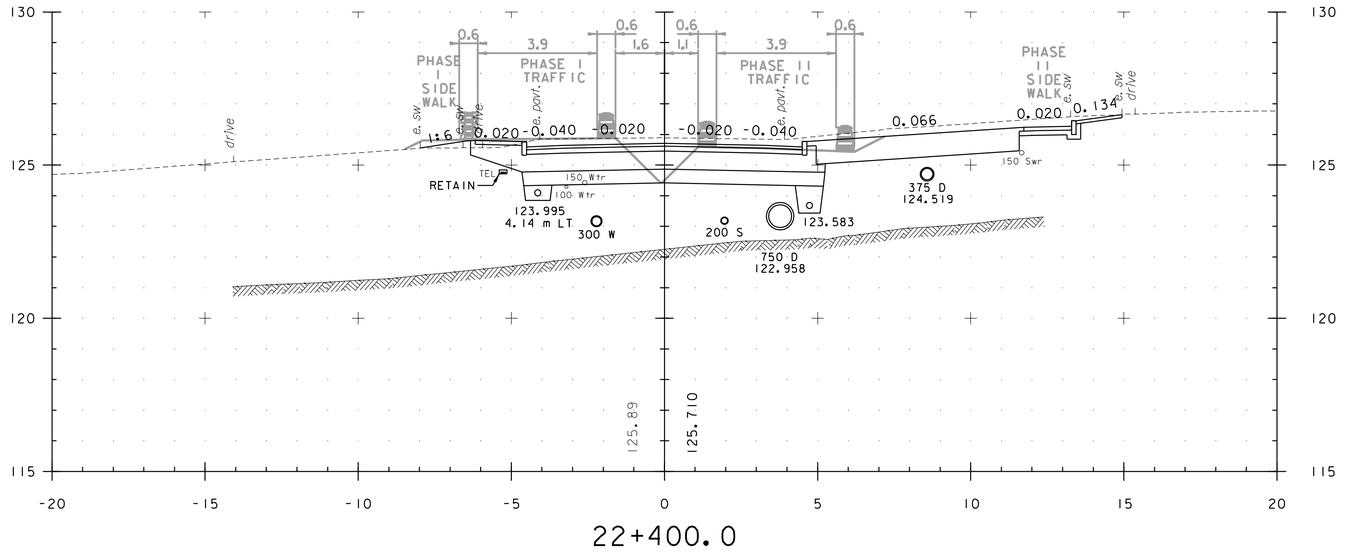
0 2 4 6 8 10
SCALE IN METERS

PROJECT NAME:	BRANDON
PROJECT NUMBER:	NH 019-3(496)
FILE NAME: zb008s6-xs.dgn	PLOT DATE: 2/23/2017
PROJECT LEADER: C. BEAN	DRAWN BY: N. LEMAY
DESIGNED BY: D. MUNRO	CHECKED BY: D. MUNRO
	SHEET 557 OF 601

CLD 02-0448 MODEL: 85

ISSUED FOR CONSTRUCTION

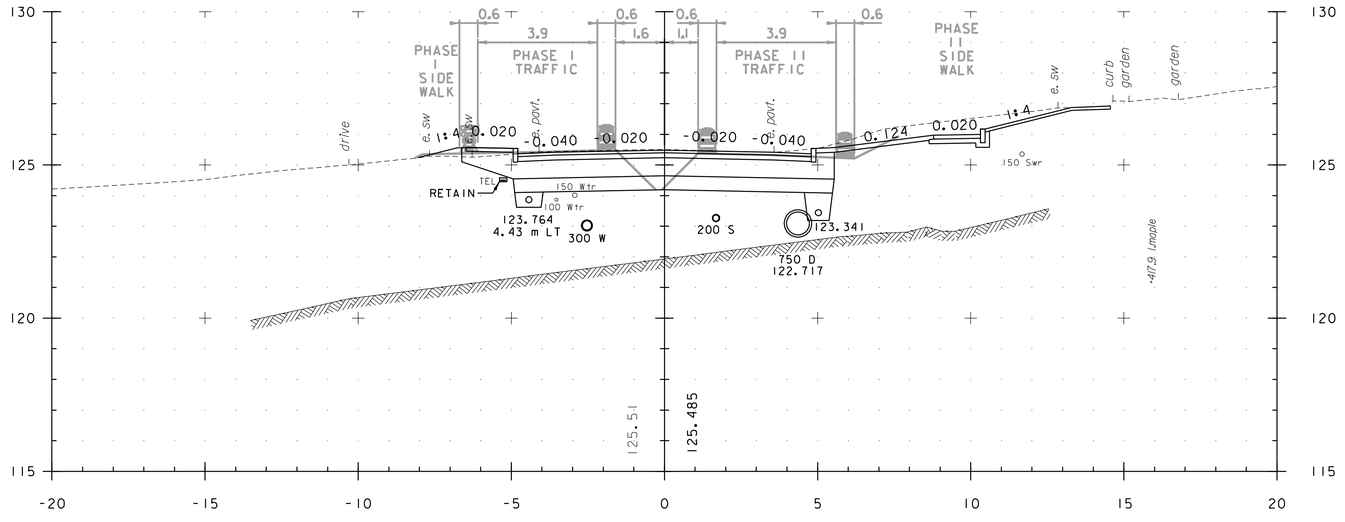




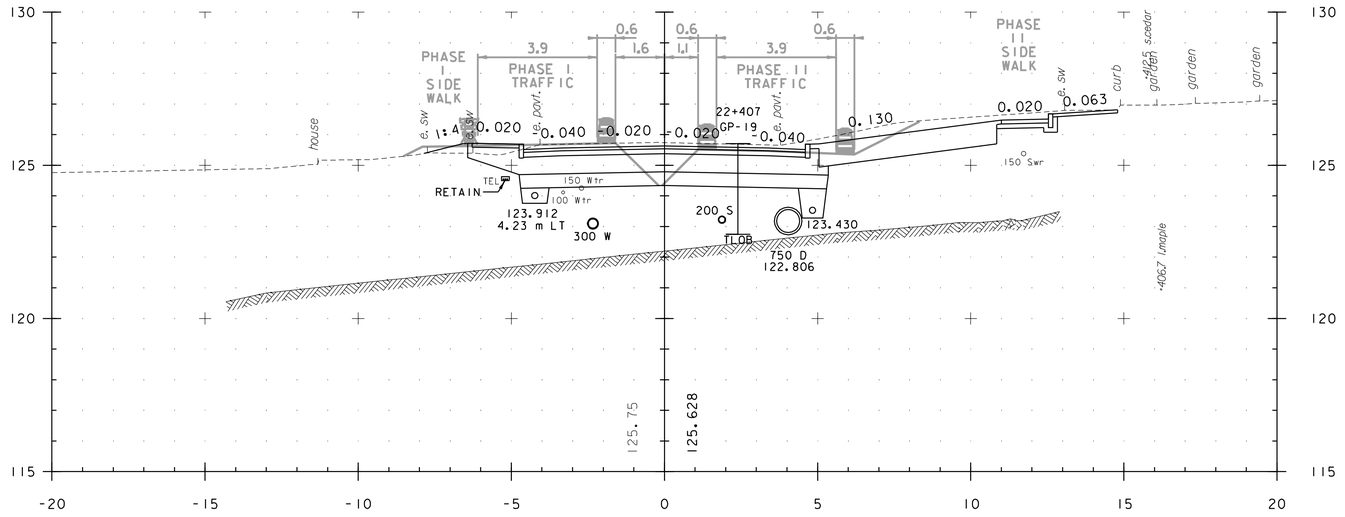
0 2 4 6 8 10
SCALE IN METERS

PROJECT NAME:	BRANDON
PROJECT NUMBER:	NH 019-3(496)
FILE NAME: zb008s6-xs.dgn	PLOT DATE: 2/23/2017
PROJECT LEADER: C. BEAN	DRAWN BY: N. LEMAY
DESIGNED BY: D. MUNRO	CHECKED BY: D. MUNRO
	SHEET 558 OF 601

CLD 02-0448 MODEL: 86



22+420.0



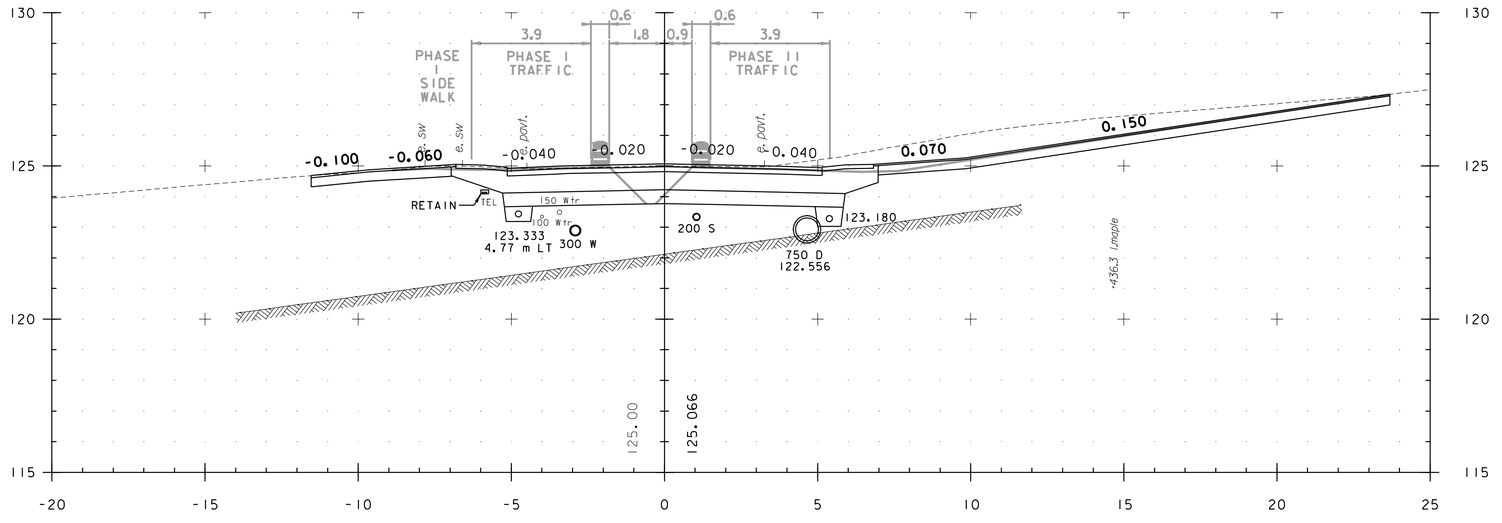
22+410.0

0 2 4 6 8 10
SCALE IN METERS

PROJECT NAME:	BRANDON
PROJECT NUMBER:	NH 019-3(496)
FILE NAME: zb008s6-xs.dgn	PLOT DATE: 2/23/2017
PROJECT LEADER: C. BEAN	DRAWN BY: N. LEMAY
DESIGNED BY: D. MUNRO	CHECKED BY: D. MUNRO
	SHEET 559 OF 601

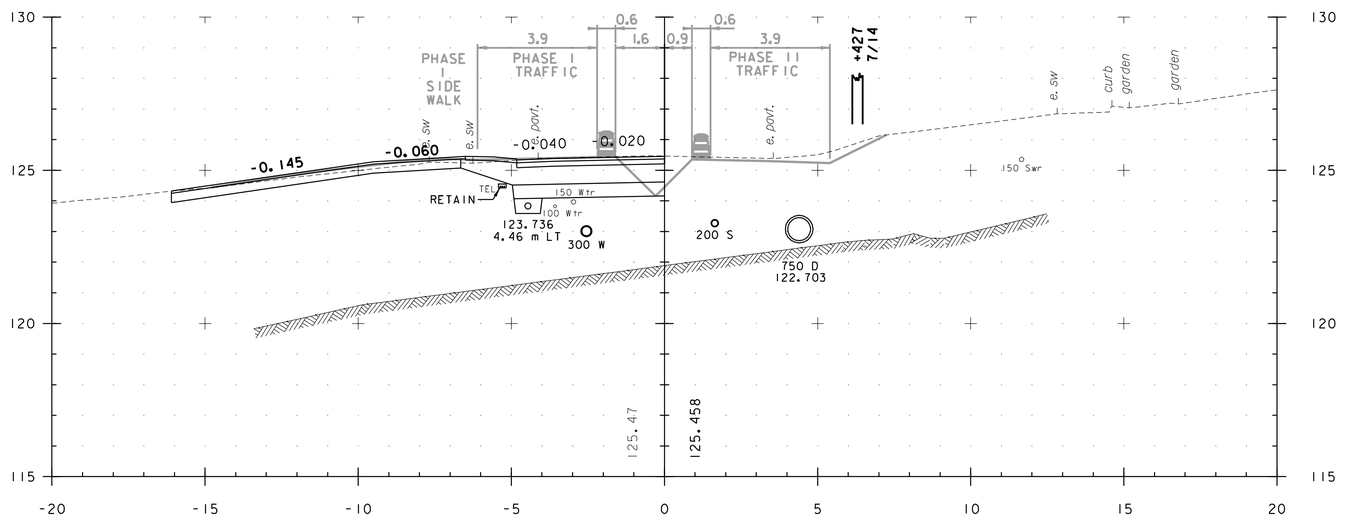
CLD 02-0448 MODEL: 87

ISSUED FOR CONSTRUCTION



22+438.1

DRIVE LT & RT



22+421.5

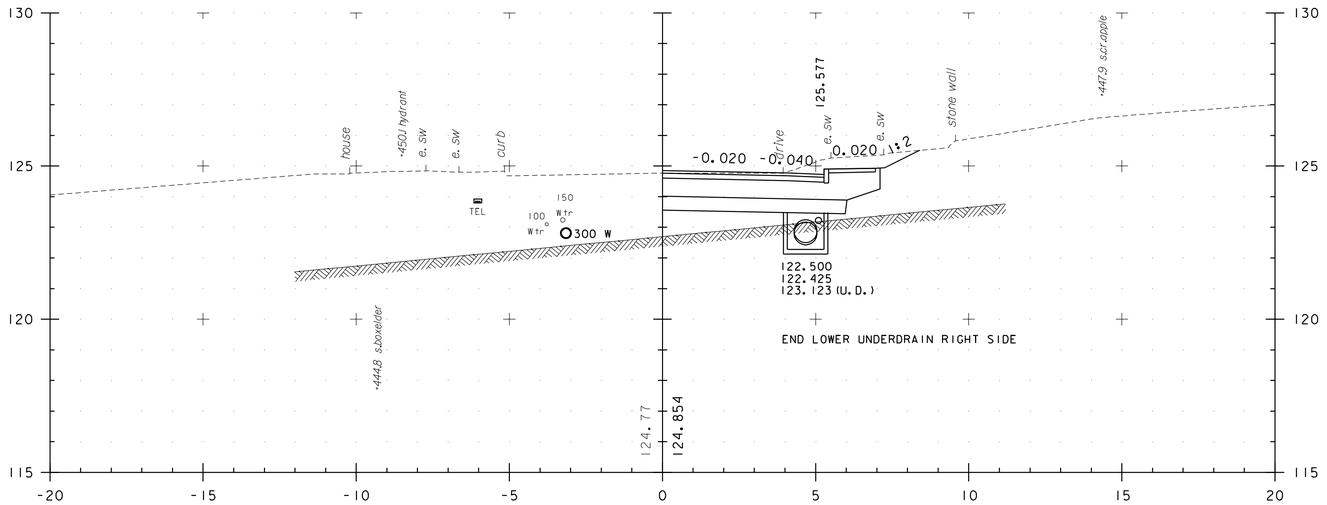
DRIVE LT

0 2 4 6 8 10

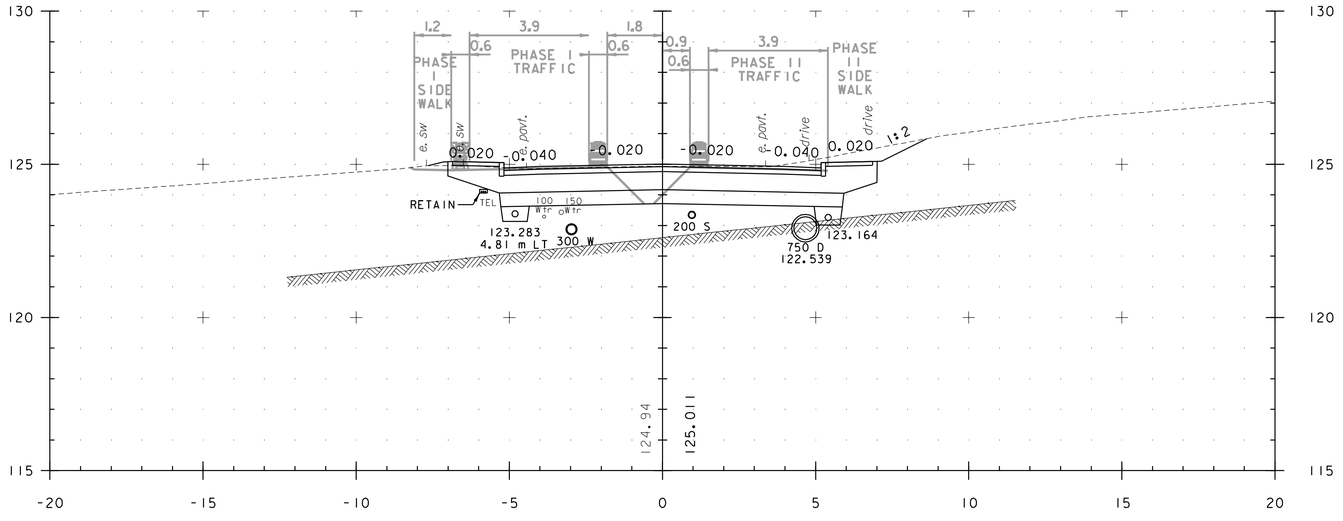
SCALE IN METERS

PROJECT NAME:	BRANDON
PROJECT NUMBER:	NH 019-3(496)
FILE NAME: zb008s6-xs.dgn	PLOT DATE: 2/23/2017
PROJECT LEADER: C. BEAN	DRAWN BY: N. LEMAY
DESIGNED BY: D. MUNRO	CHECKED BY: D. MUNRO
	SHEET 560 OF 601

CLD 02-0448 MODEL: 88



22+445.0



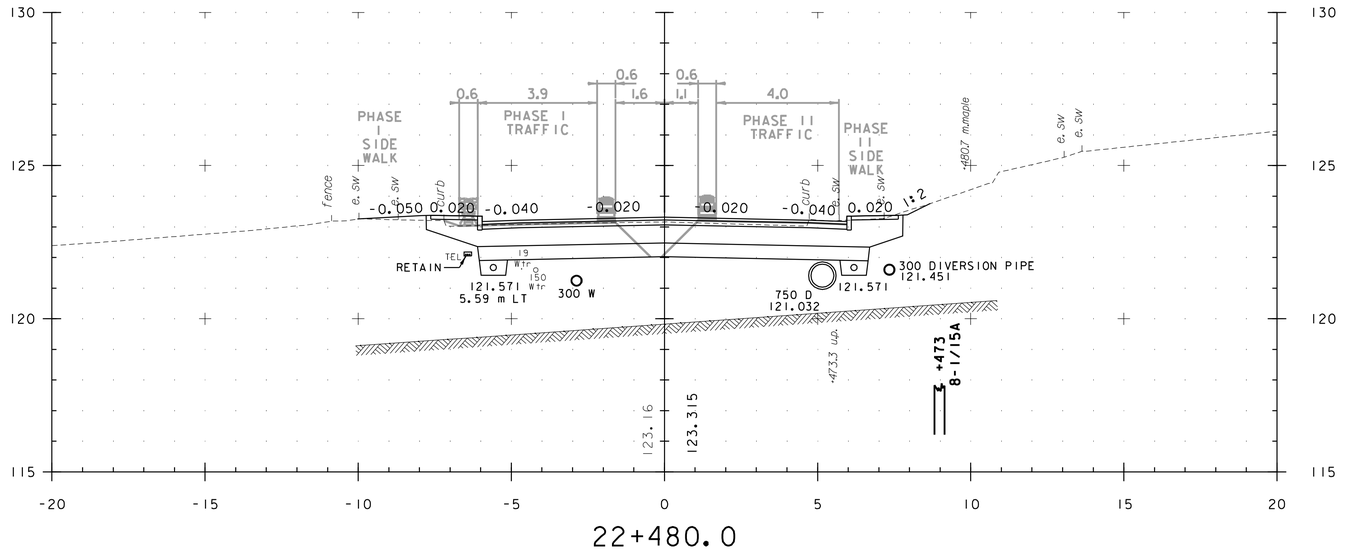
22+440.0

0 2 4 6 8 10
SCALE IN METERS

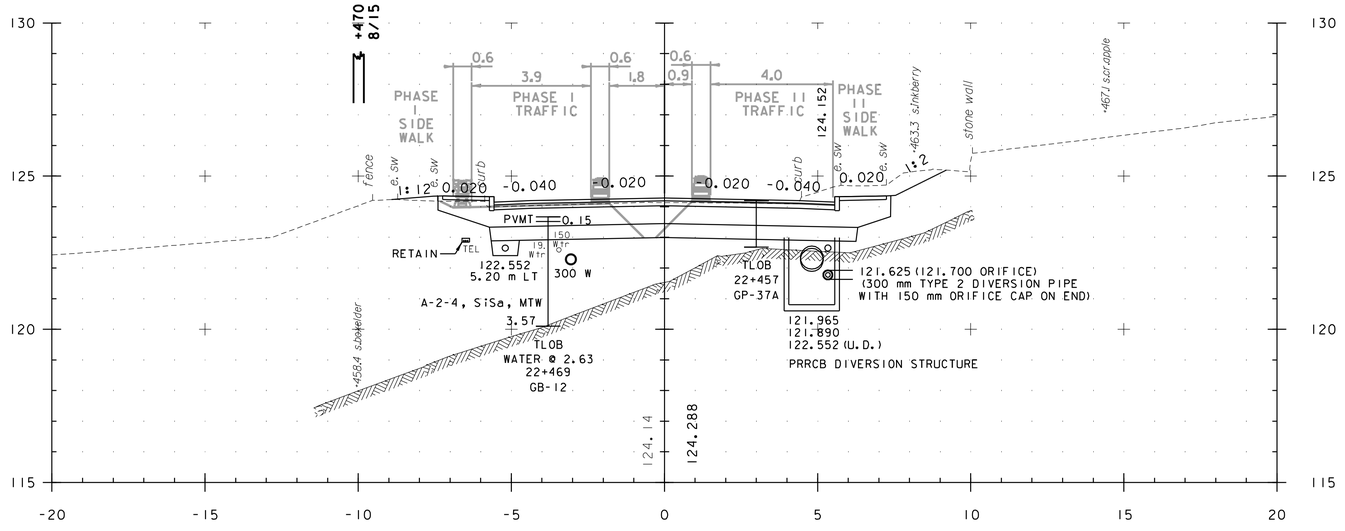
PROJECT NAME:	BRANDON
PROJECT NUMBER:	NH 019-3(496)
FILE NAME: zb008s6-xs.dgn	PLOT DATE: 2/23/2017
PROJECT LEADER: C. BEAN	DRAWN BY: N. LEMAY
DESIGNED BY: D. MUNRO	CHECKED BY: D. MUNRO
	SHEET 561 OF 601

CLD 02-0448 MODEL: 89

ISSUED FOR CONSTRUCTION



22+480.0

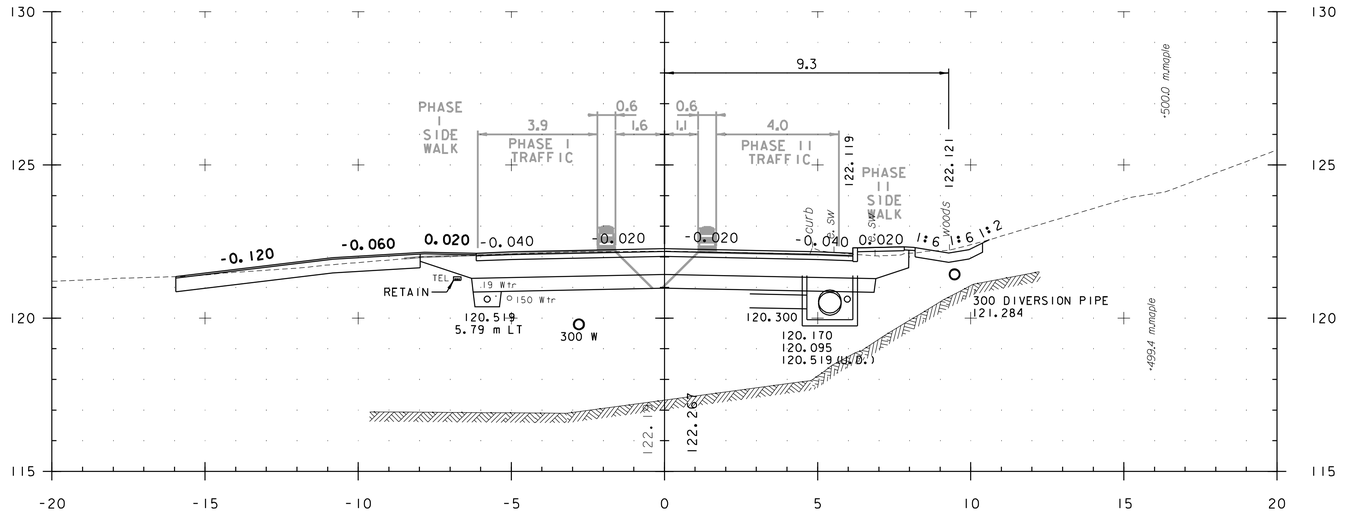


22+460.0

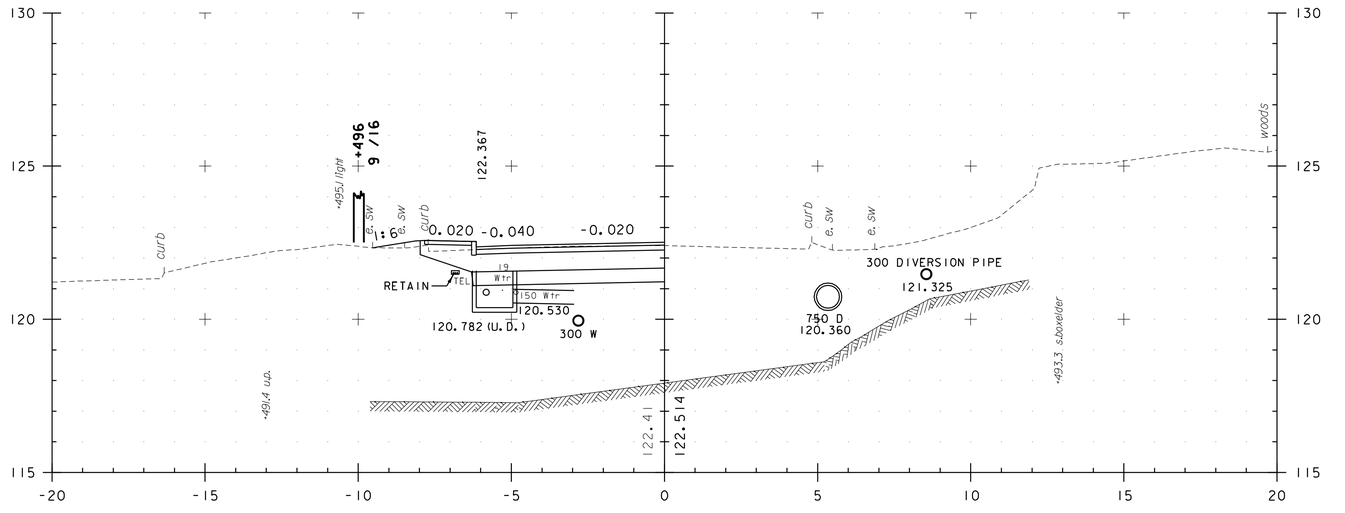
0 2 4 6 8 10
SCALE IN METERS

PROJECT NAME:	BRANDON
PROJECT NUMBER:	NH 019-3(496)
FILE NAME: zb008s6-xs.dgn	PLOT DATE: 2/23/2017
PROJECT LEADER: C. BEAN	DRAWN BY: N. LEMAY
DESIGNED BY: D. MUNRO	CHECKED BY: D. MUNRO
	SHEET 562 OF 601

CLD 02-0448 MODEL: 90



22+500.0
DRIVE LT



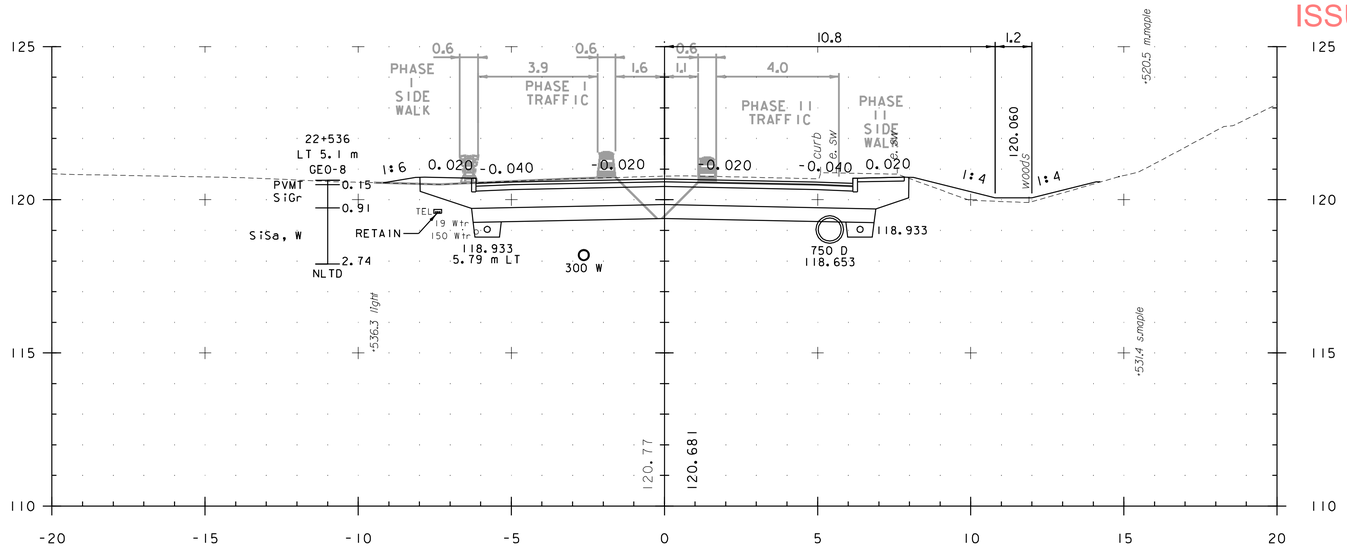
22+495.0

0 2 4 6 8 10
SCALE IN METERS

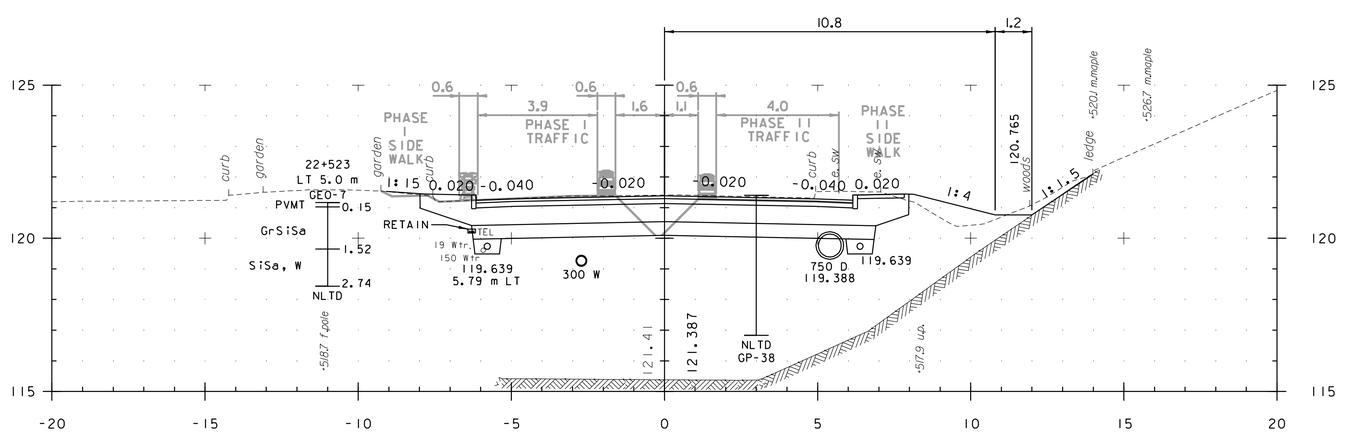
PROJECT NAME:	BRANDON
PROJECT NUMBER:	NH 019-3(496)
FILE NAME: zb008s6-xs.dgn	PLOT DATE: 2/23/2017
PROJECT LEADER: C. BEAN	DRAWN BY: N. LEMAY
DESIGNED BY: D. MUNRO	CHECKED BY: D. MUNRO
	SHEET 563 OF 601

CLD 02-0448 MODEL: 91

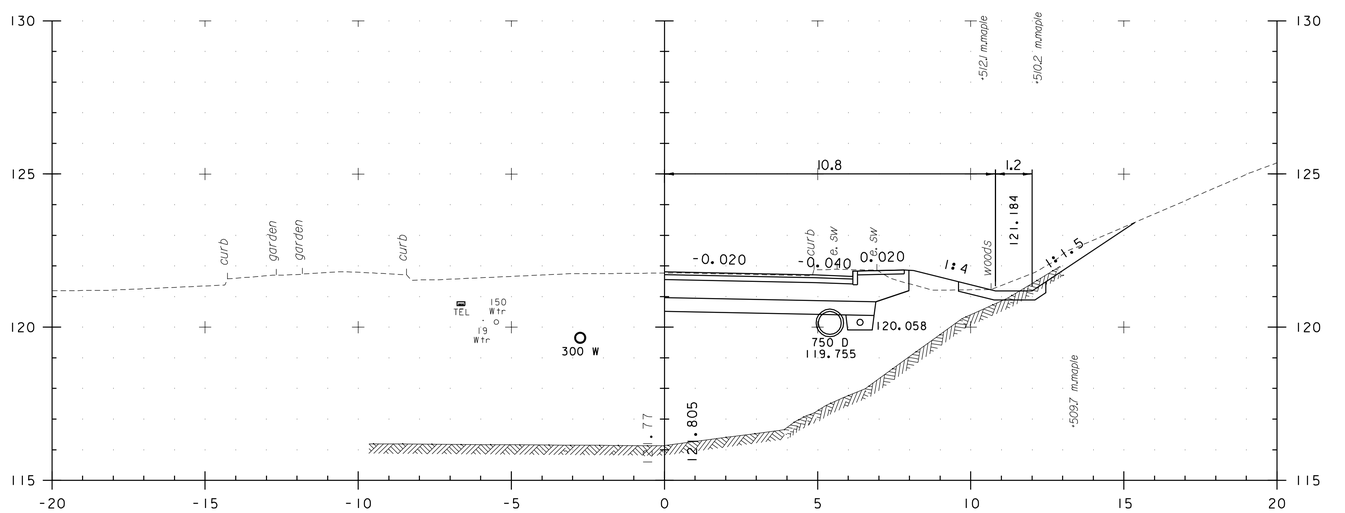
ISSUED FOR CONSTRUCTION



22+540.0



22+520.0



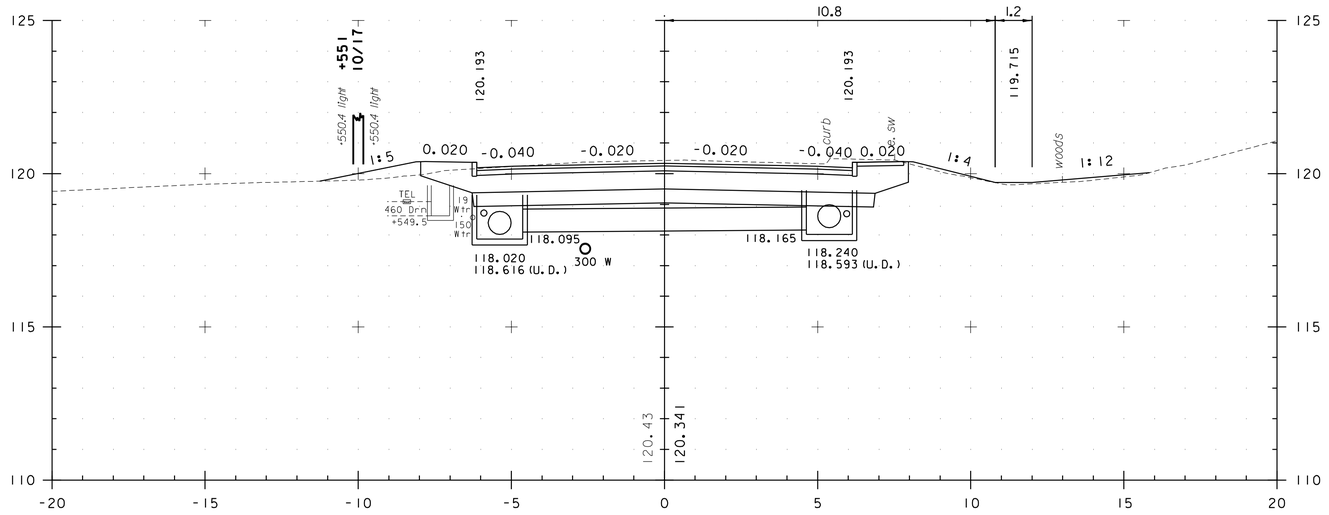
22+510.0

0 2 4 6 8 10
SCALE IN METERS

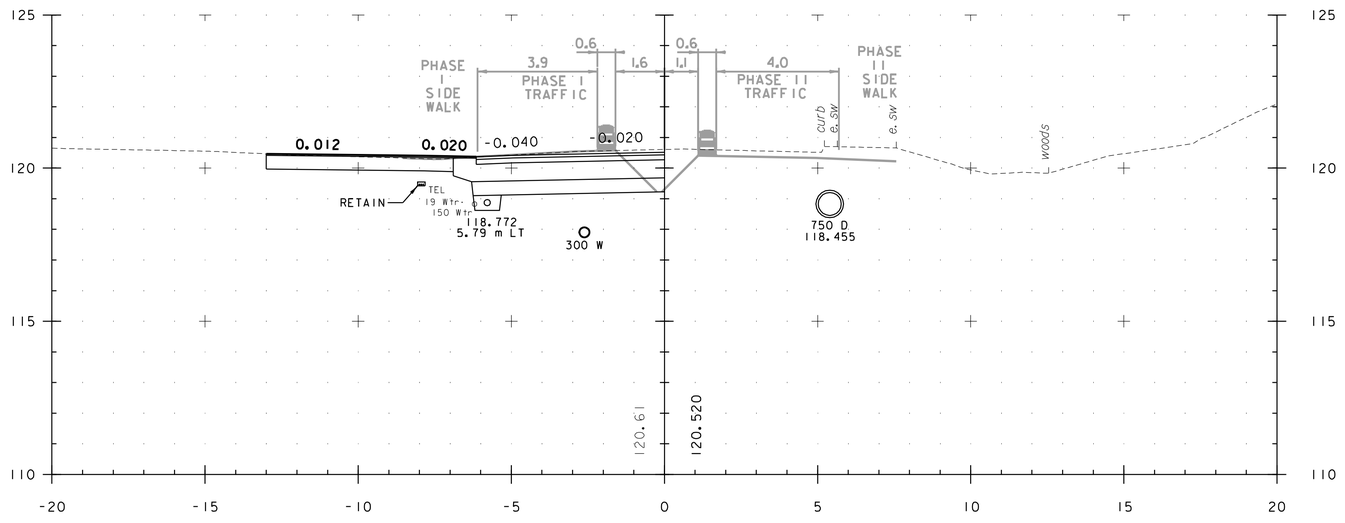
CLD 02-0448 MODEL: 92

PROJECT NAME:	BRANDON
PROJECT NUMBER:	NH 019-3(496)
FILE NAME: zb008s6-xs.dgn	PLOT DATE: 2/23/2017
PROJECT LEADER: C. BEAN	DRAWN BY: N. LEMAY
DESIGNED BY: D. MUNRO	CHECKED BY: D. MUNRO
	SHEET 564 OF 601

ISSUED FOR CONSTRUCTION



22+552.0



22+545.4

DRIVE LT

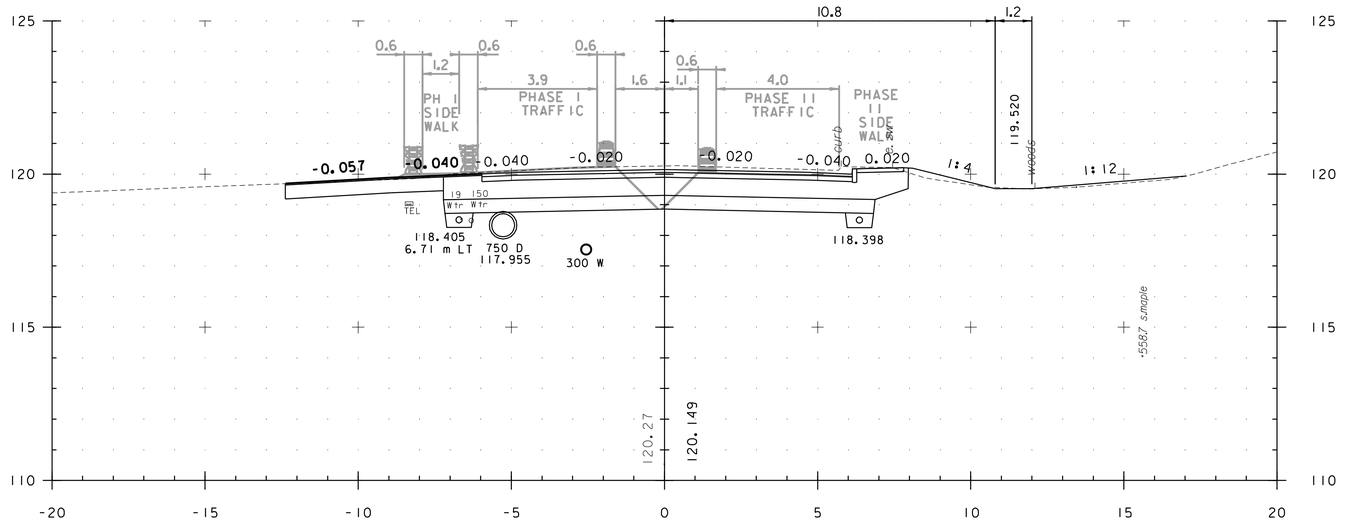
0 2 4 6 8 10

SCALE IN METERS

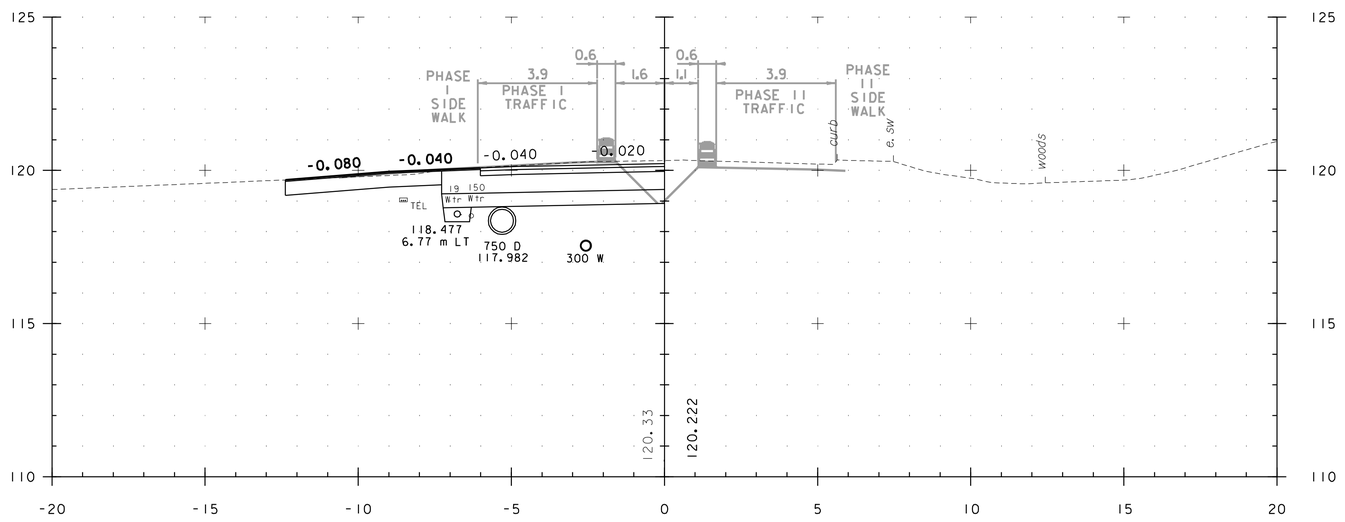
PROJECT NAME:	BRANDON
PROJECT NUMBER:	NH 019-3(496)
FILE NAME: zb008s6-xs.dgn	PLOT DATE: 2/23/2017
PROJECT LEADER: C. BEAN	DRAWN BY: N. LEMAY
DESIGNED BY: D. MUNRO	CHECKED BY: D. MUNRO
	SHEET 565 OF 601

CLD 02-0448 MODEL: 93

ISSUED FOR CONSTRUCTION



22+560.0



22+557.0

DRIVE LT

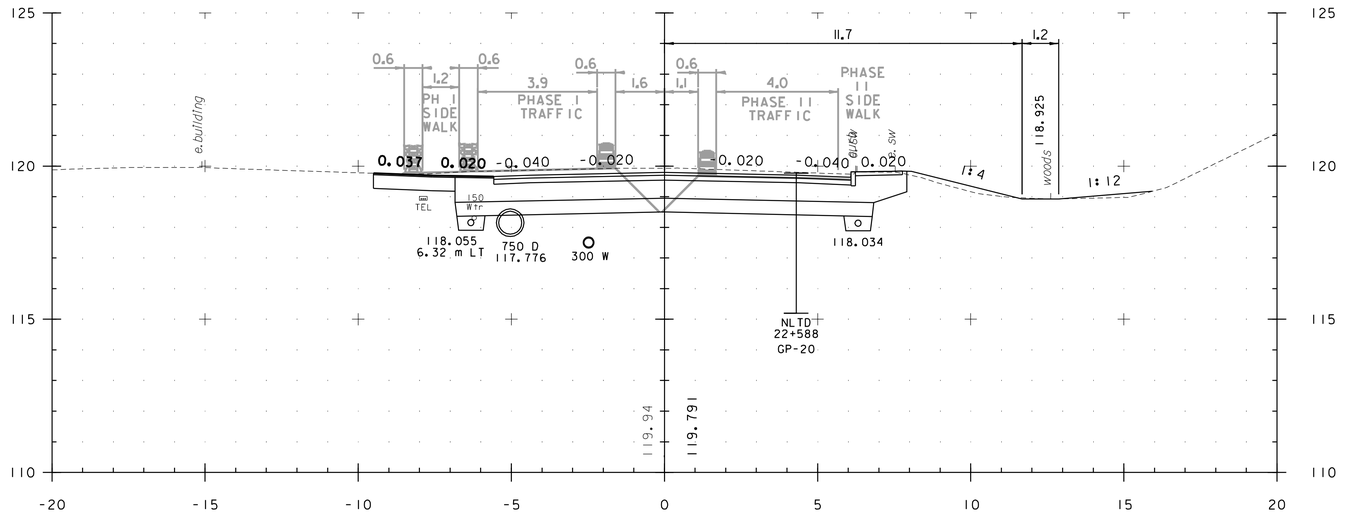
0 2 4 6 8 10

SCALE IN METERS

PROJECT NAME:	BRANDON
PROJECT NUMBER:	NH 019-3(496)
FILE NAME: zb008s6-xs.dgn	PLOT DATE: 2/23/2017
PROJECT LEADER: C. BEAN	DRAWN BY: N. LEMAY
DESIGNED BY: D. MUNRO	CHECKED BY: D. MUNRO
	SHEET 566 OF 601

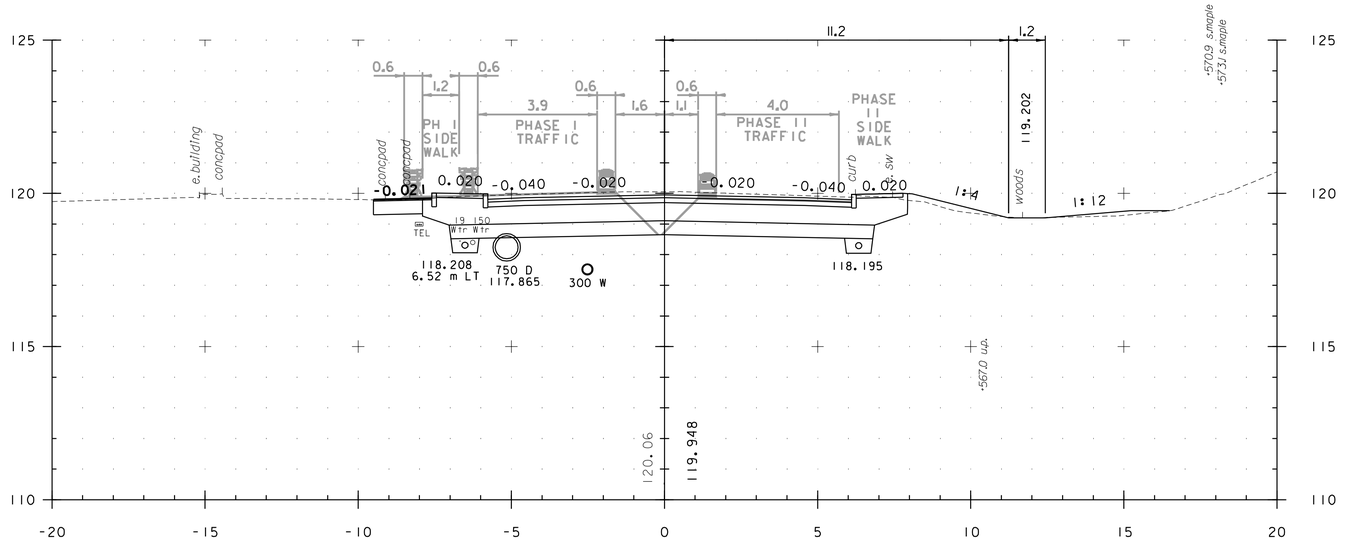
CLD 02-0448 MODEL: 94

ISSUED FOR CONSTRUCTION



22+580.0

DRIVE LT



22+570.0

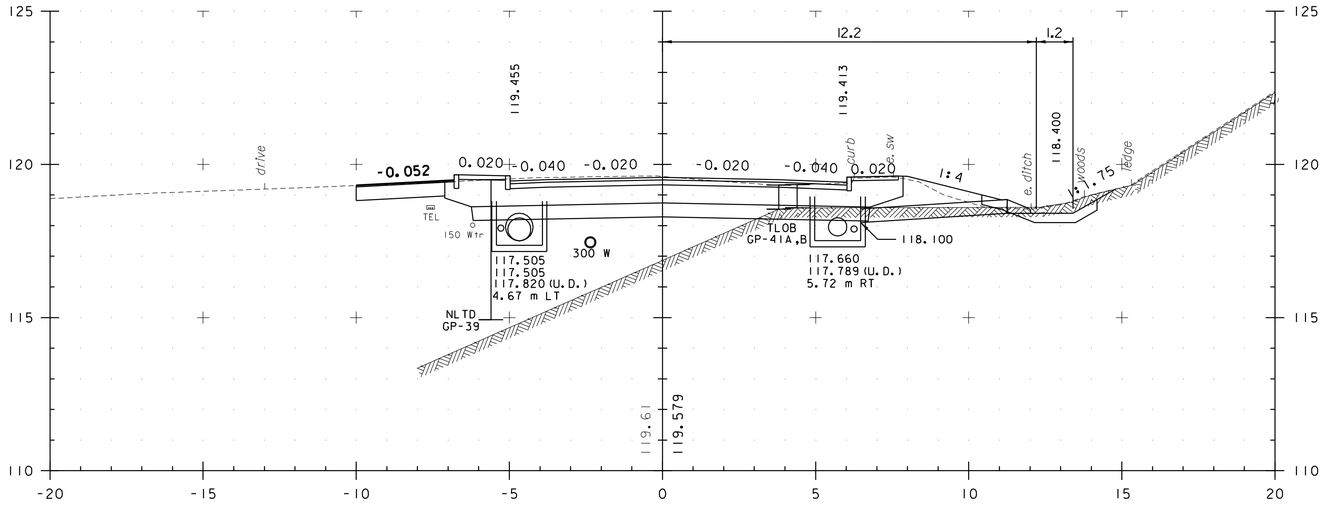
0 2 4 6 8 10

SCALE IN METERS

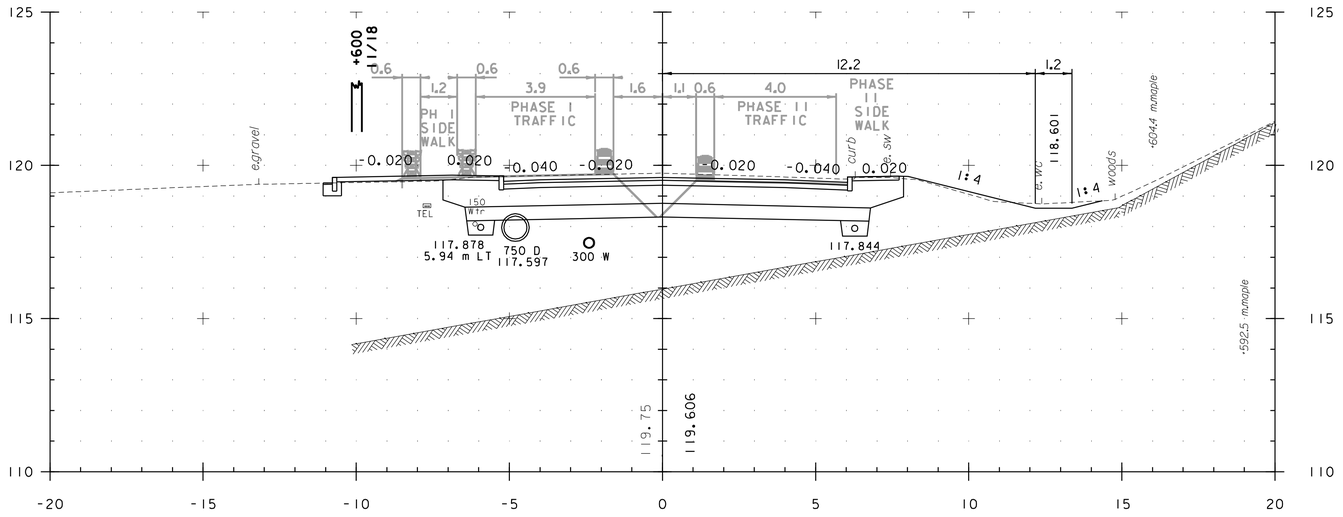
PROJECT NAME:	BRANDON
PROJECT NUMBER:	NH 019-3(496)
FILE NAME: zb008s6-xs.dgn	PLOT DATE: 2/23/2017
PROJECT LEADER: C. BEAN	DRAWN BY: N. LEMAY
DESIGNED BY: D. MUNRO	CHECKED BY: D. MUNRO
	SHEET 567 OF 601

CLD 02-0448 MODEL: 95

ISSUED FOR CONSTRUCTION



22+611.0



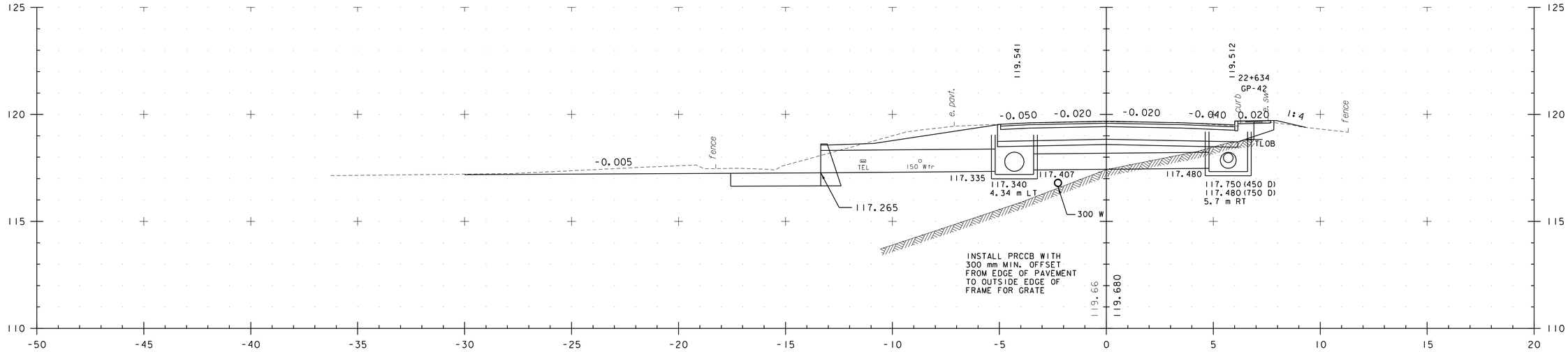
22+600.0

0 2 4 6 8 10
SCALE IN METERS

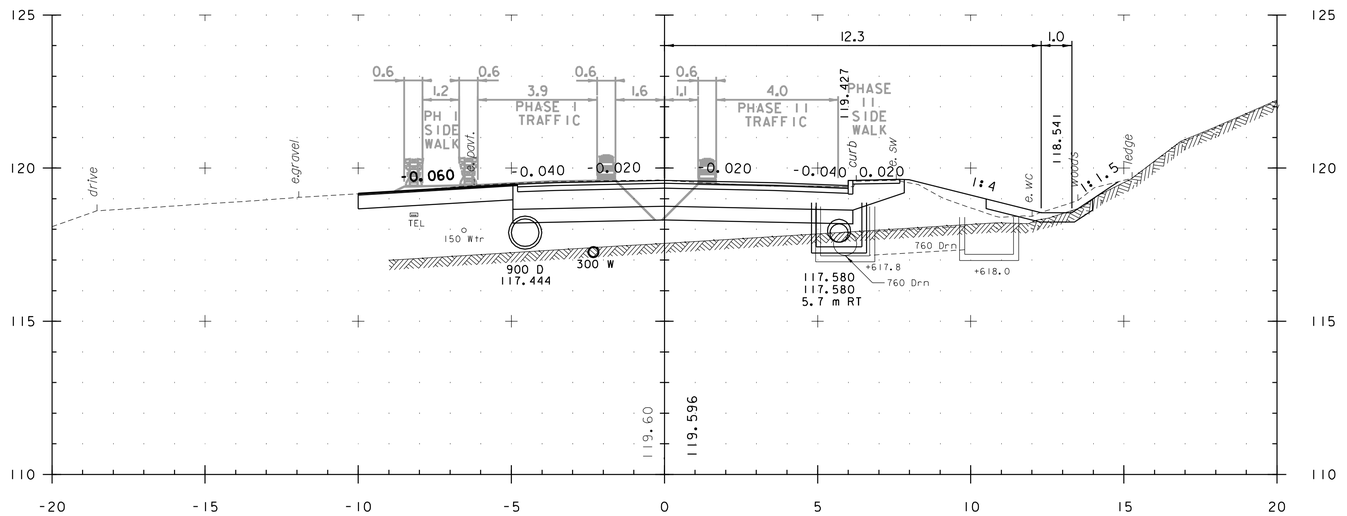
PROJECT NAME:	BRANDON
PROJECT NUMBER:	NH 019-3(496)
FILE NAME: zb008s6-xs.dgn	PLOT DATE: 2/23/2017
PROJECT LEADER: C. BEAN	DRAWN BY: N. LEMAY
DESIGNED BY: D. MUNRO	CHECKED BY: D. MUNRO
	SHEET 568 OF 601

CLD 02-0448 MODEL: 96

ISSUED FOR CONSTRUCTION



22+635.0 (ALONG PIPE)
END PROJECT / BEGIN APPROACH (22+630)



22+620.0
DRIVE LT

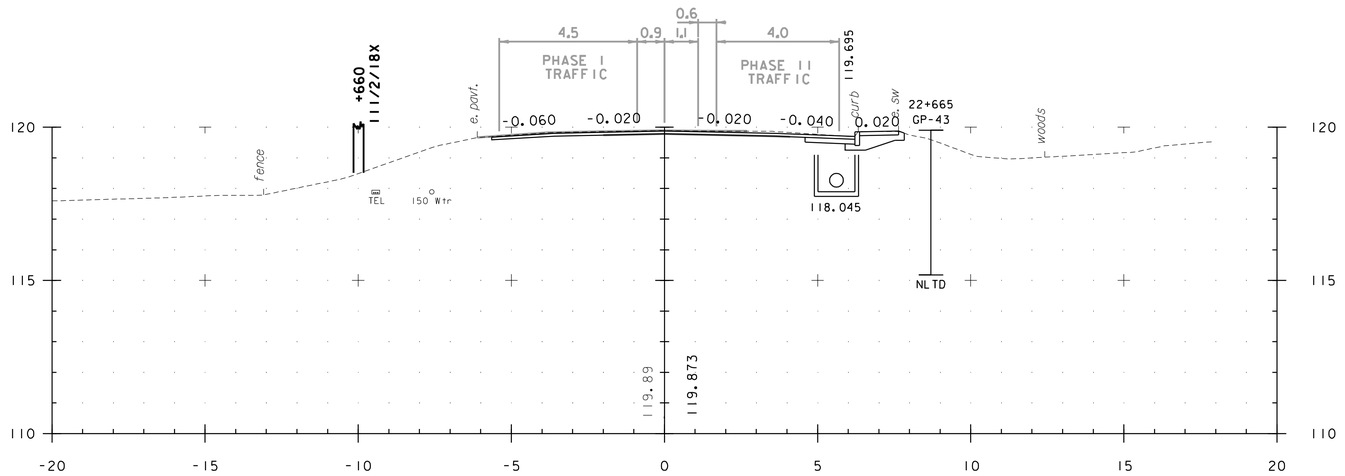
0 2 4 6 8 10
SCALE IN METERS

PROJECT NAME:	BRANDON
PROJECT NUMBER:	NH 019-3(496)
FILE NAME: zb008s6-xs.dgn	PLOT DATE: 2/23/2017
PROJECT LEADER: C. BEAN	DRAWN BY: N. LEMAY
DESIGNED BY: D. MUNRO	CHECKED BY: D. MUNRO
	SHEET 569 OF 601

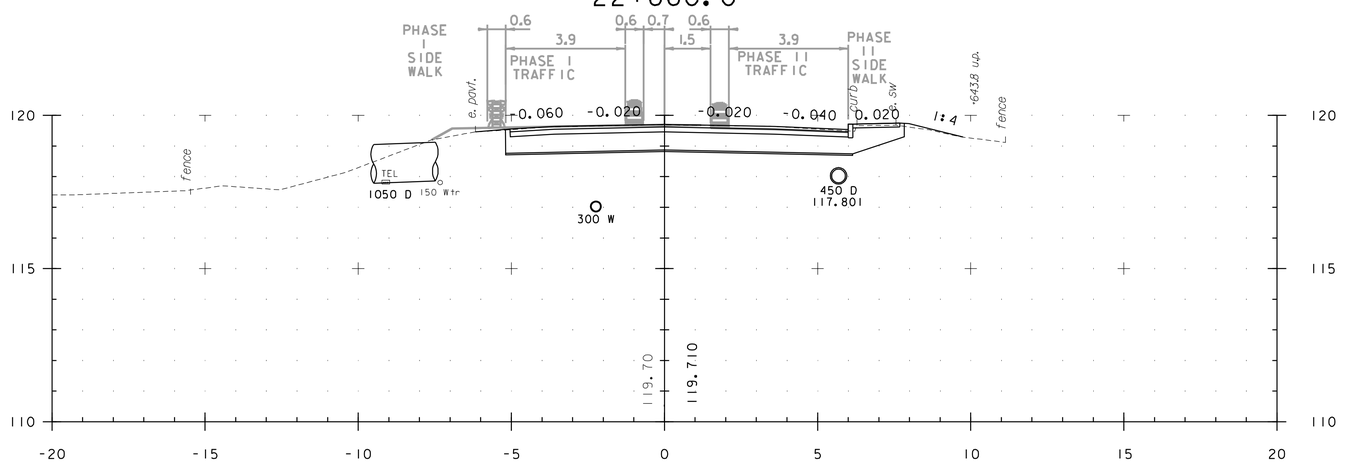
CLD 02-0448 MODEL: 97

ISSUED FOR CONSTRUCTION

VAOT Metric



22+660.0

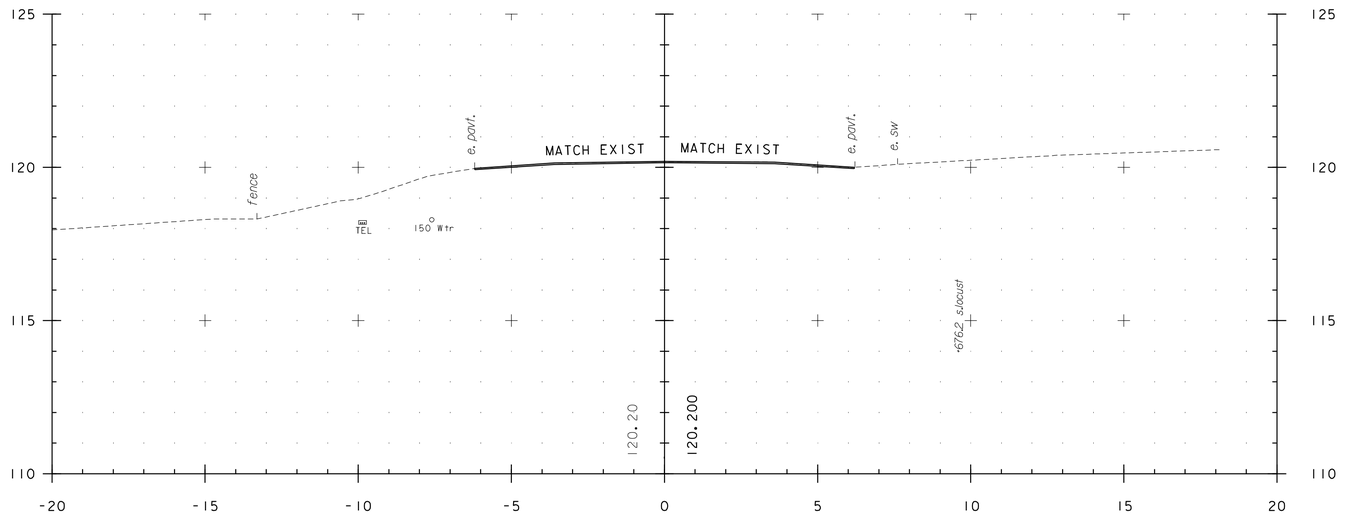


22+640.0

0 2 4 6 8 10
SCALE IN METERS

PROJECT NAME:	BRANDON
PROJECT NUMBER:	NH 019-3(496)
FILE NAME: zb008s6-xs.dgn	PLOT DATE: 2/23/2017
PROJECT LEADER: C. BEAN	DRAWN BY: N. LEMAY
DESIGNED BY: D. MUNRO	CHECKED BY: D. MUNRO
	SHEET 570 OF 601

CLD 02-0448 MODEL: 98



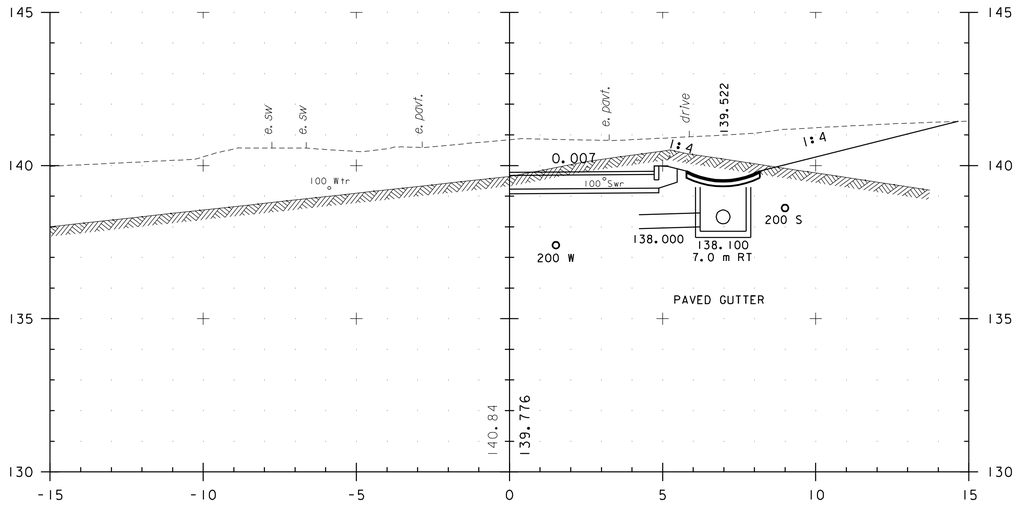
22+680.0
END APPROACH

0 2 4 6 8 10
SCALE IN METERS

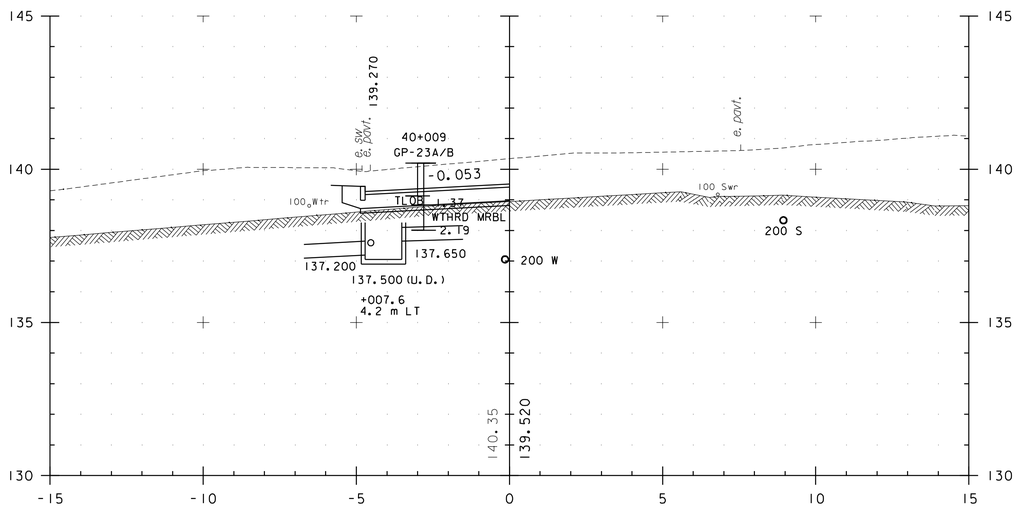
PROJECT NAME:	BRANDON
PROJECT NUMBER:	NH 019-3(496)
FILE NAME: zb008s6-xs.dgn	PLOT DATE: 2/23/2017
PROJECT LEADER: C. BEAN	DRAWN BY: N. LEMAY
DESIGNED BY: D. MUNRO	CHECKED BY: D. MUNRO
	SHEET 571 OF 601

CLD 02-0448 MODEL: 99

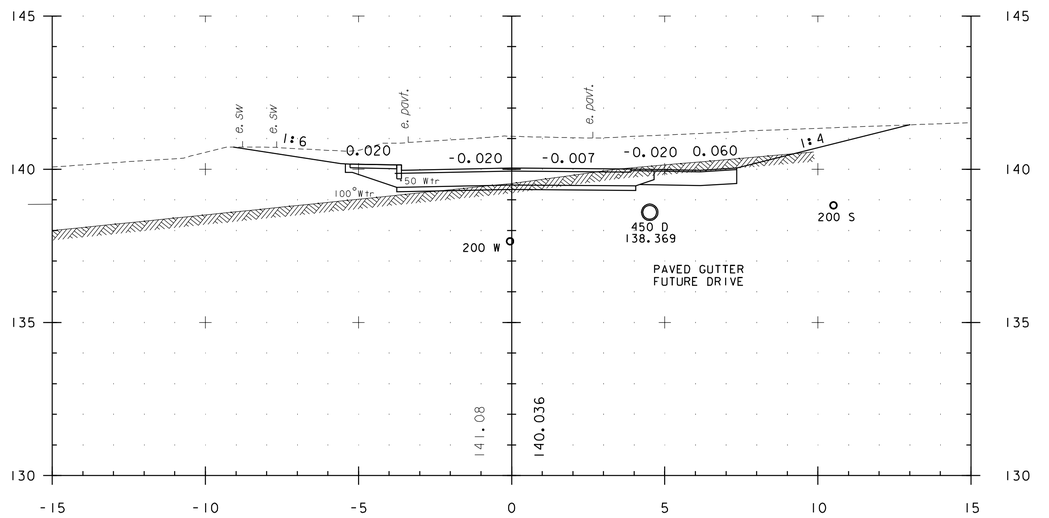
ISSUED FOR CONSTRUCTION



40+015.0



40+008.0



40+020.0

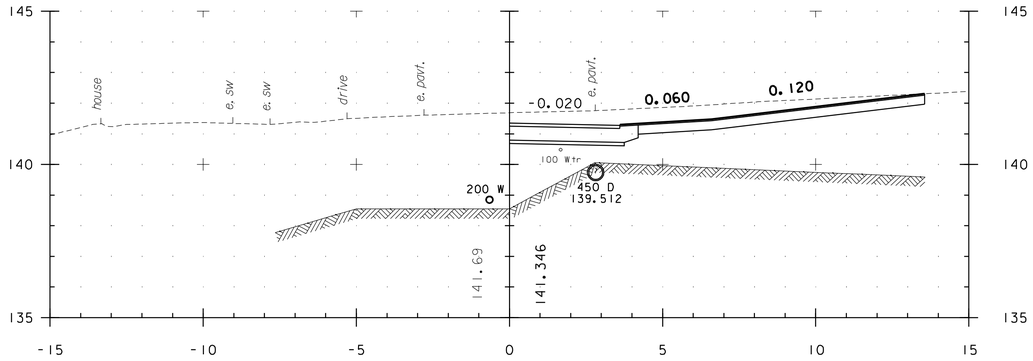
0 2 4 6 8 10
SCALE IN METERS

HIGH ST

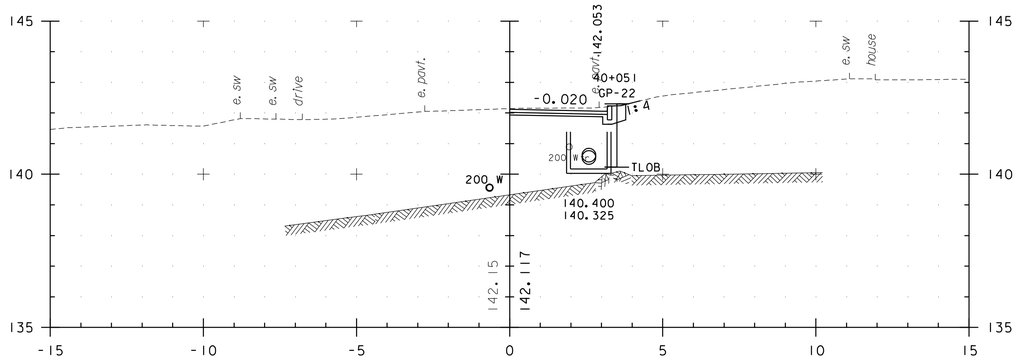
PROJECT NAME:	BRANDON
PROJECT NUMBER:	NH 019-3(496)
FILE NAME: zb008s6-xs.dgn	PLOT DATE: 2/23/2017
PROJECT LEADER: C. BEAN	DRAWN BY: N. LEMAY
DESIGNED BY: D. MUNRO	CHECKED BY: D. MUNRO
	SHEET 572 OF 601

CLD 02-0448 MODEL:100

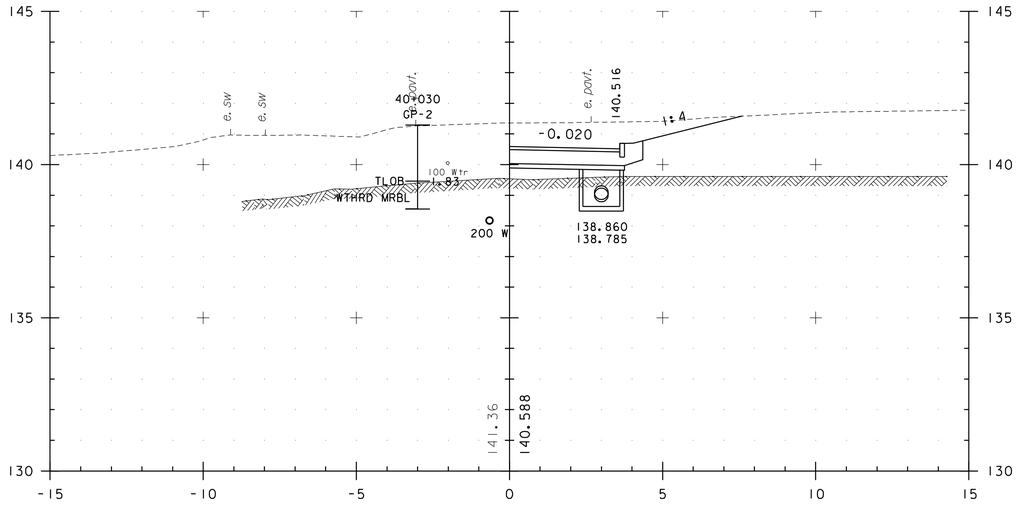
ISSUED FOR CONSTRUCTION



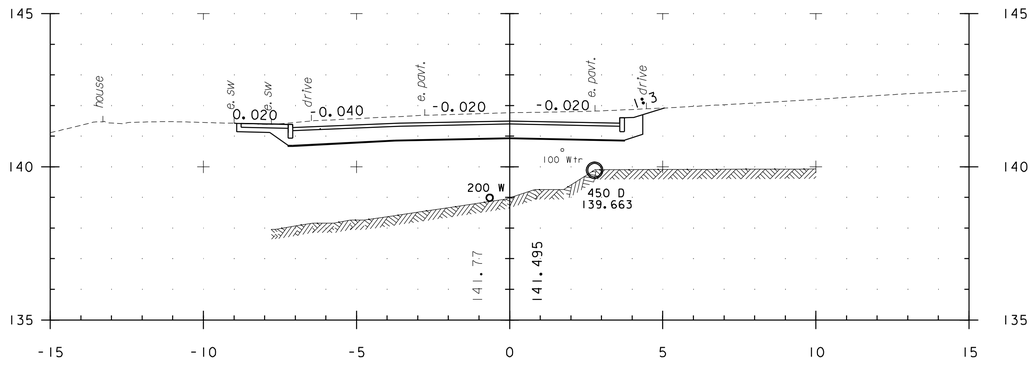
40+037.9
DRIVE RT



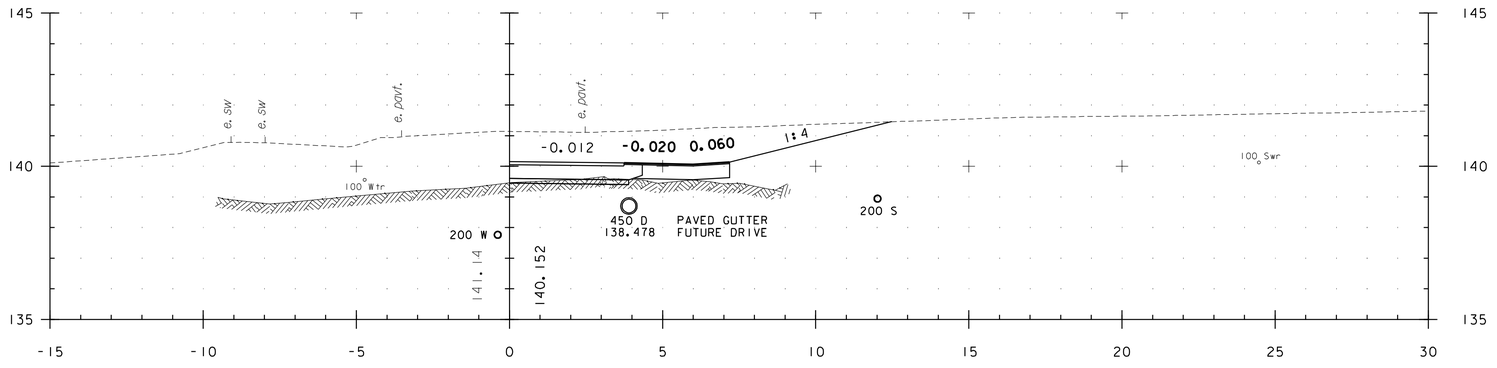
40+050.0



40+028.0



40+040.0



40+021.9
DRIVE RT

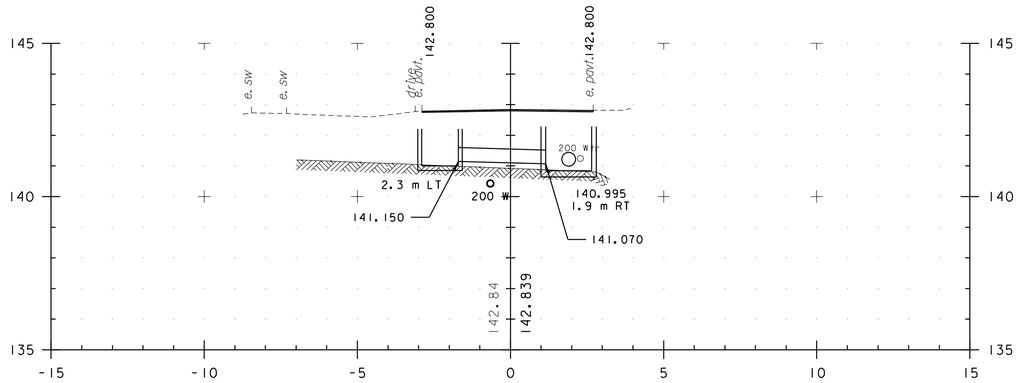
HIGH ST

0 2 4 6 8 10
SCALE IN METERS

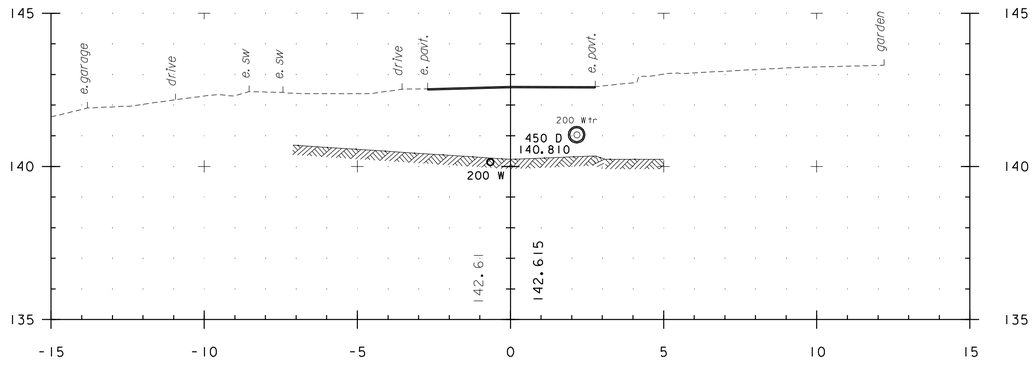
PROJECT NAME:	BRANDON		
PROJECT NUMBER:	NH 019-3(496)		
FILE NAME: zb008s6-xs.dgn		PLOT DATE:	2/23/2017
PROJECT LEADER:	C. BEAN	DRAWN BY:	N. LEMAY
DESIGNED BY:	D. MUNRO	CHECKED BY:	D. MUNRO
		SHEET	573 OF 601

CLD 02-0448 MODEL: 101

ISSUED FOR CONSTRUCTION



40+065.0



40+060.0

HIGH ST

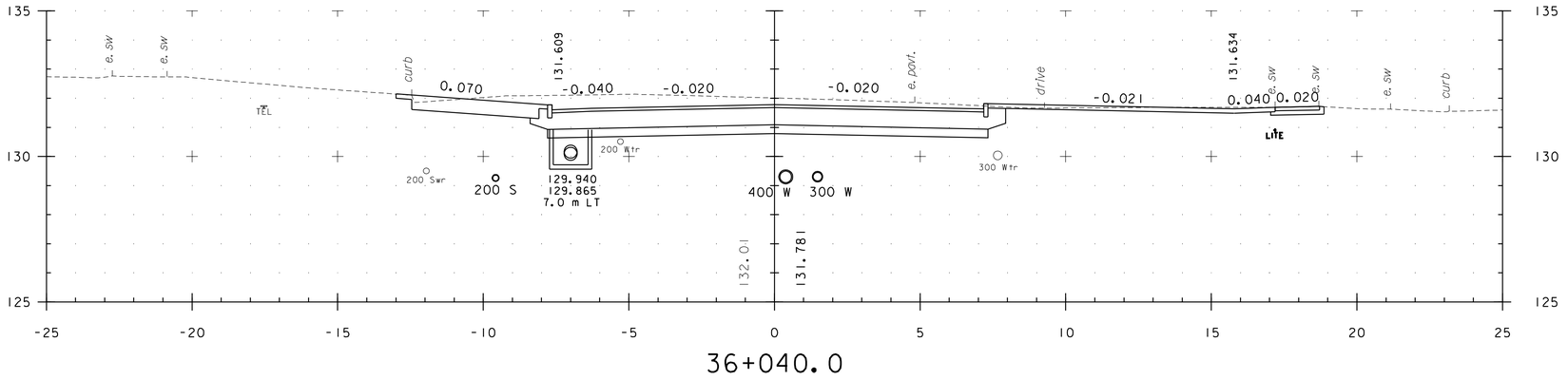
PROJECT NAME:	BRANDON
PROJECT NUMBER:	NH 019-3(496)

FILE NAME: zb008s6-xs.dgn		PLOT DATE:	2/23/2017
PROJECT LEADER:	C. BEAN	DRAWN BY:	N. LEMAY
DESIGNED BY:	D. MUNRO	CHECKED BY:	D. MUNRO
		SHEET	574 OF 601

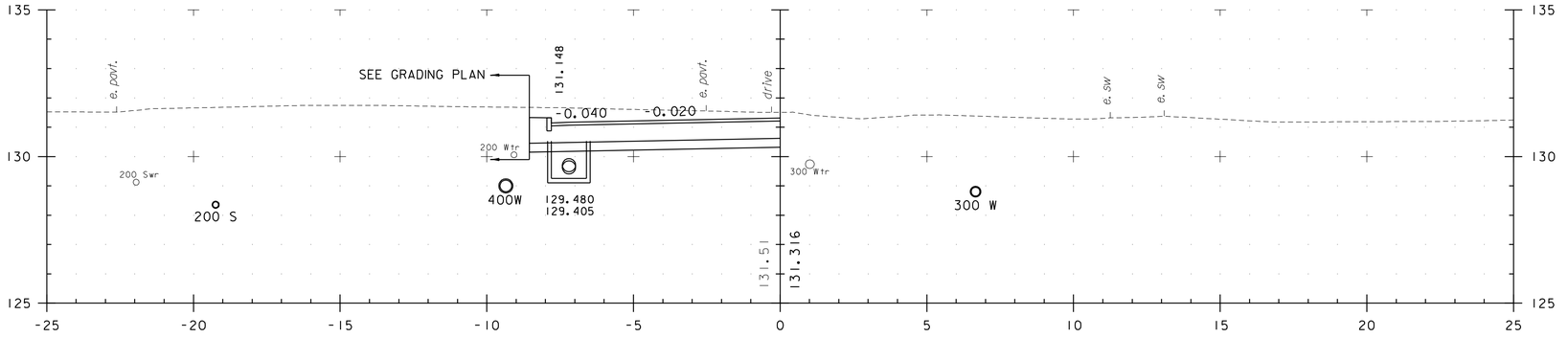
0 2 4 6 8 10
SCALE IN METERS

CLD 02-0448 MODEL:102

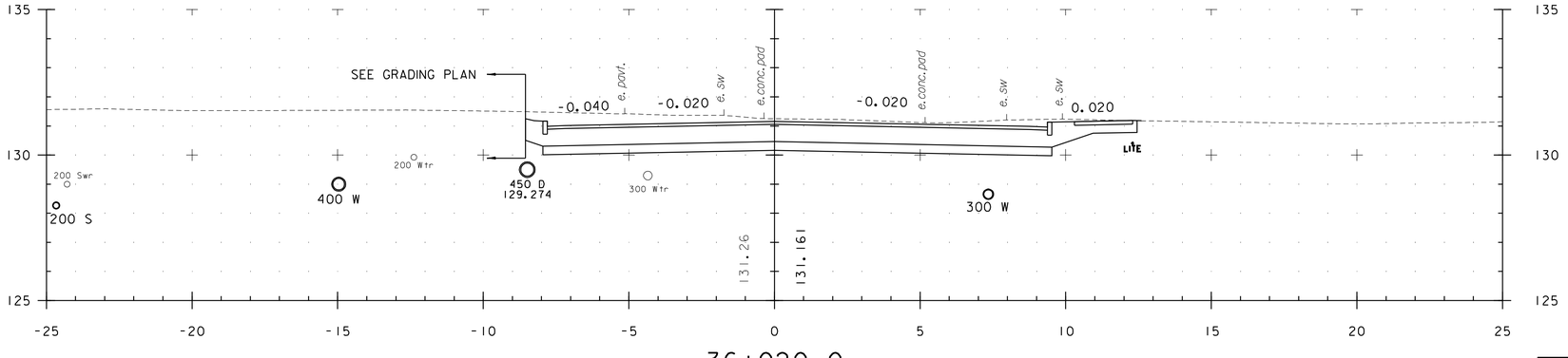
ISSUED FOR CONSTRUCTION



36+040.0



36+025.0



36+020.0

0 2 4 6 8 10
SCALE IN METERS

VT 73 E

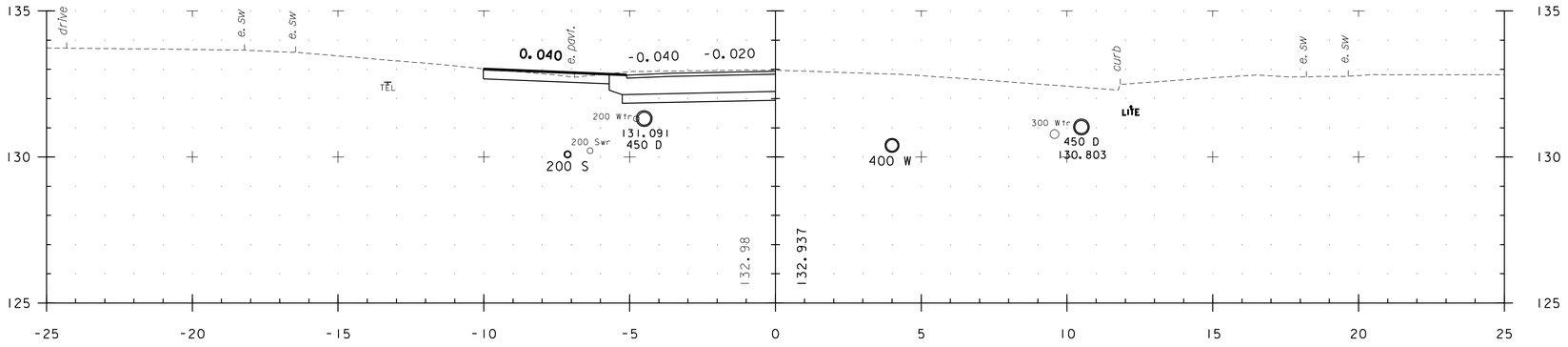
PROJECT NAME: BRANDON
PROJECT NUMBER: NH 019-3(496)

FILE NAME: zb008s6-xs.dgn
PROJECT LEADER: C. BEAN
DESIGNED BY: D. MUNRO

PLOT DATE: 2/23/2017
DRAWN BY: N. LEMAY
CHECKED BY: D. MUNRO
SHEET 575 OF 601

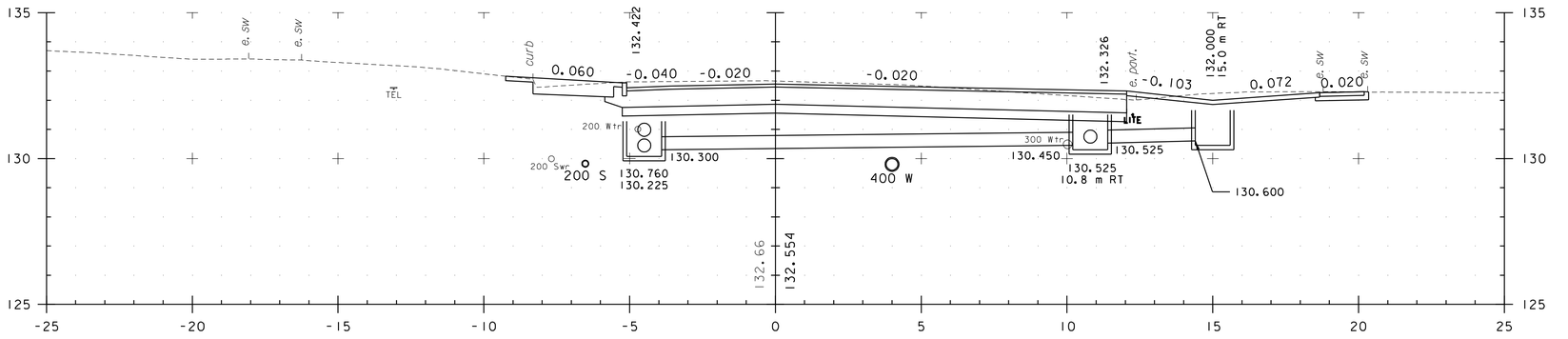
CLD 02-0448 MODEL: 103

ISSUED FOR CONSTRUCTION

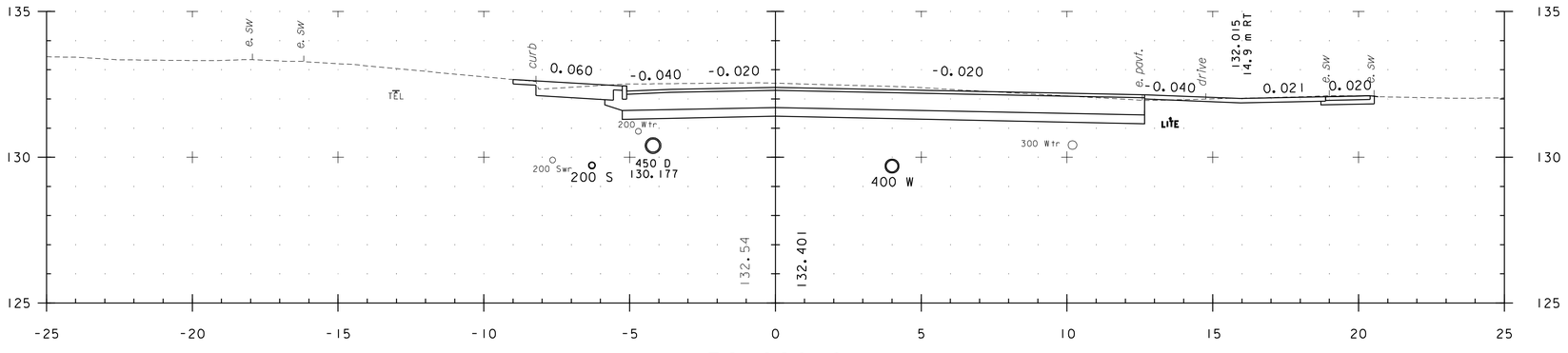


36+078.3

DRIVE LT



36+065.0



36+060.0

0 2 4 6 8 10

SCALE IN METERS

VT 73 E

PROJECT NAME: BRANDON

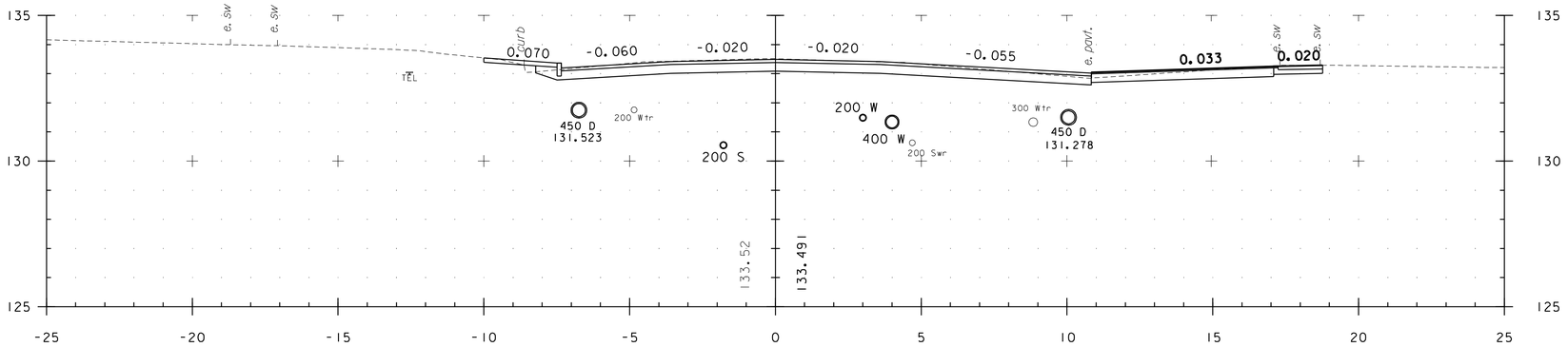
PROJECT NUMBER: NH 019-3(496)

FILE NAME: zb008s6-xs.dgn
PROJECT LEADER: C. BEAN
DESIGNED BY: D. MUNRO

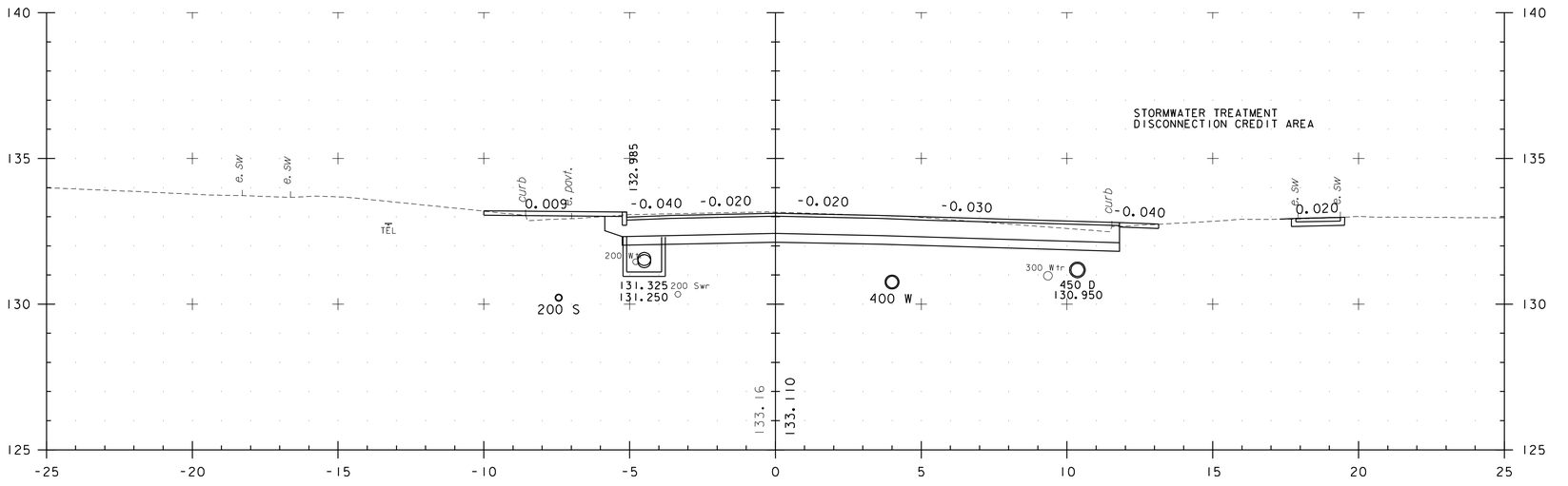
PLOT DATE: 2/23/2017
DRAWN BY: N. LEMAY
CHECKED BY: D. MUNRO
SHEET 576 OF 601

CLD 02-0448 MODEL:104

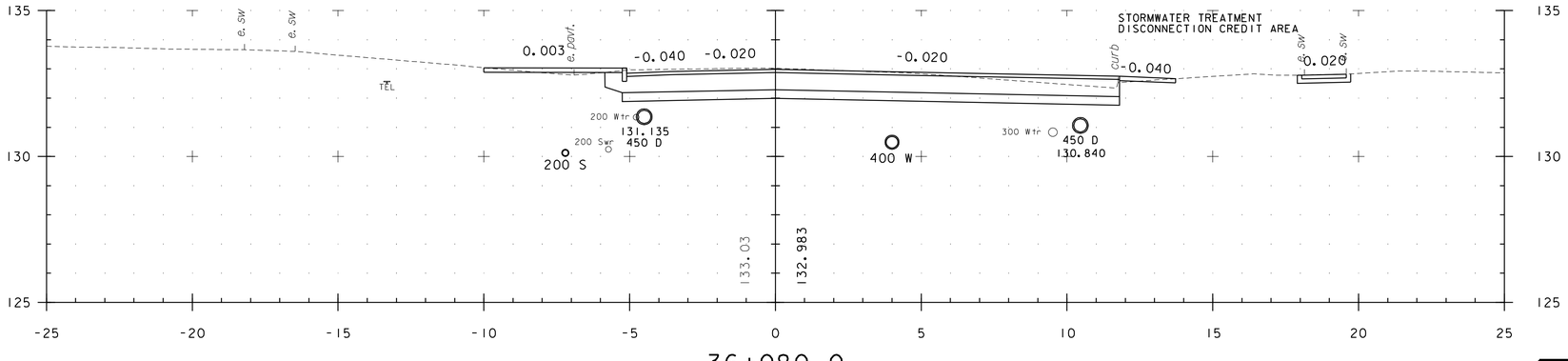
ISSUED FOR CONSTRUCTION



36+100.0
DRIVE RT



36+085.0



36+080.0

0 2 4 6 8 10
SCALE IN METERS

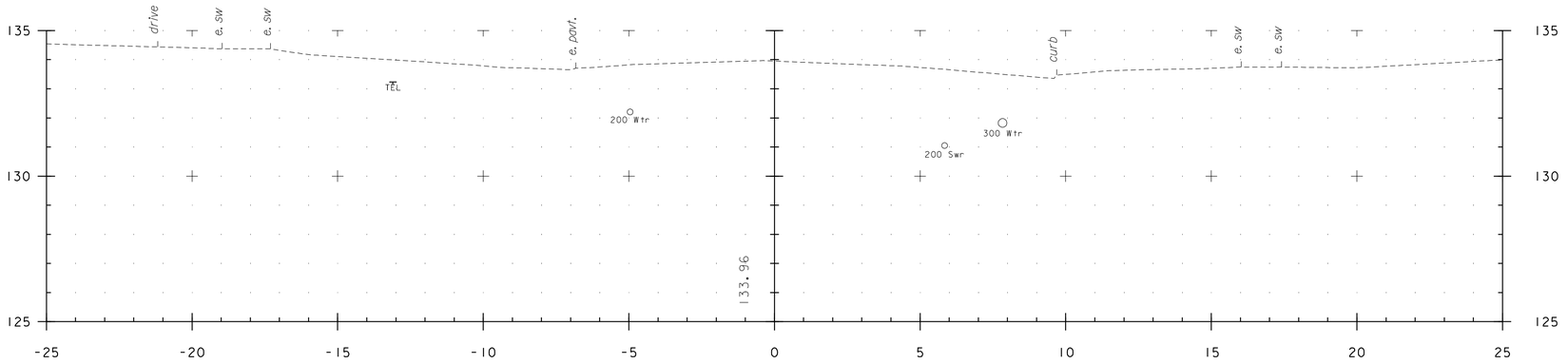
VT 73 E

PROJECT NAME: BRANDON
PROJECT NUMBER: NH 019-3(496)

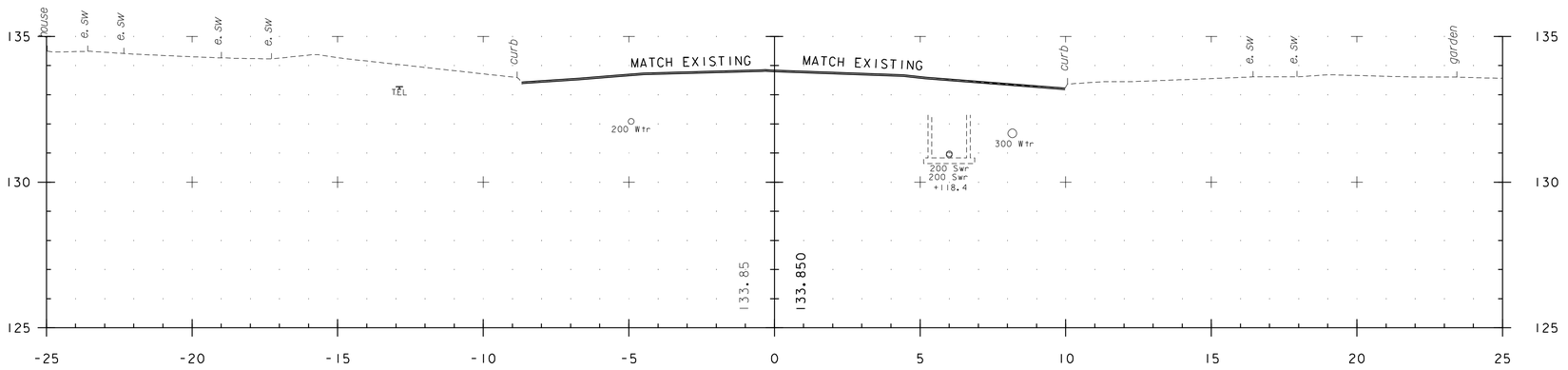
FILE NAME: zb008s6-xs.dgn
PROJECT LEADER: C. BEAN
DESIGNED BY: D. MUNRO
PLOT DATE: 2/23/2017
DRAWN BY: N. LEMAY
CHECKED BY: D. MUNRO
SHEET 577 OF 601

CLD 02-0448 MODEL: 105

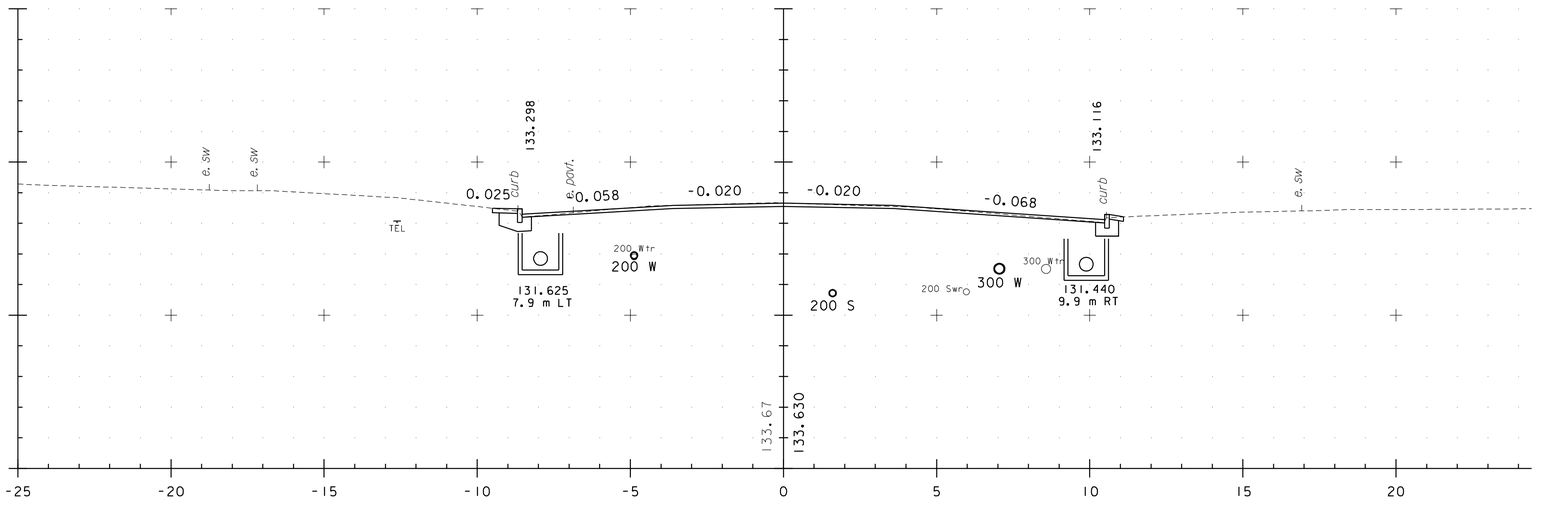
ISSUED FOR CONSTRUCTION



36+130.0



36+120.0



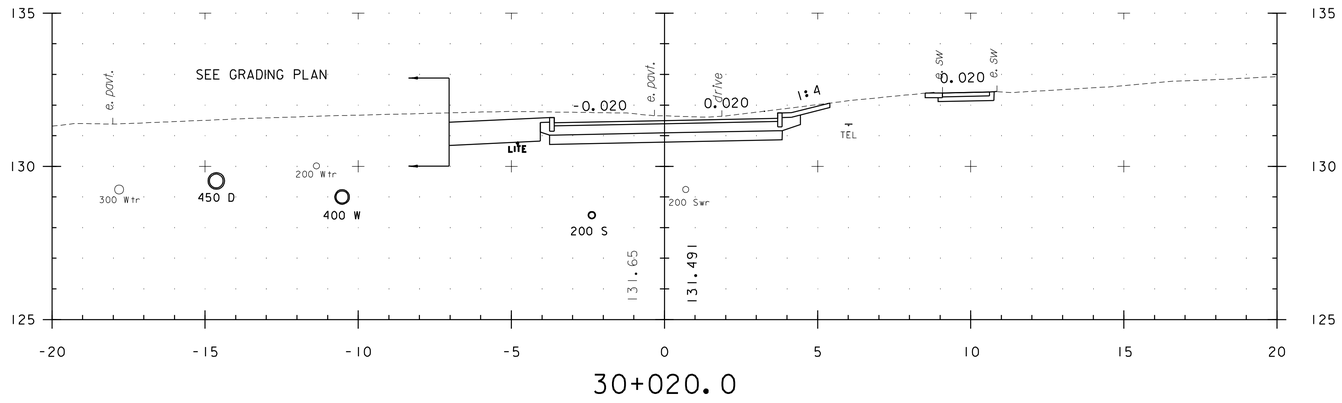
36+108.0

0 2 4 6 8 10
SCALE IN METERS

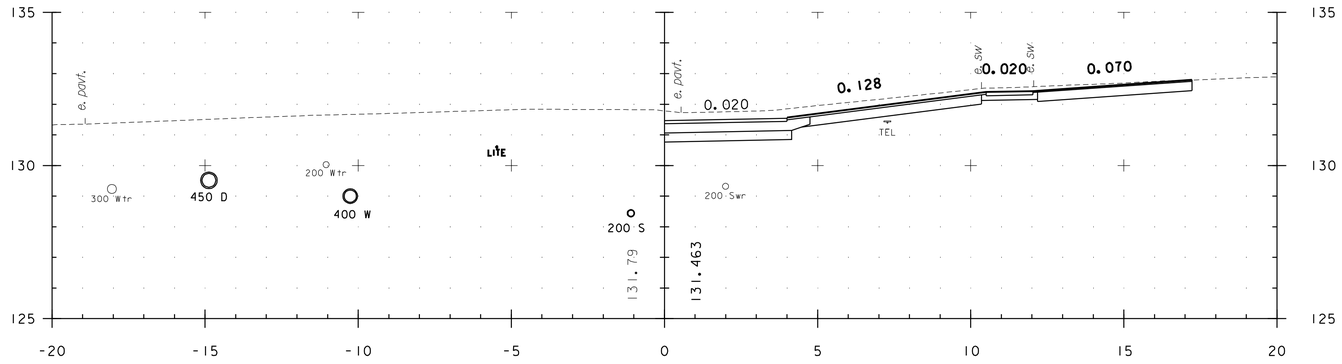
CLD 02-0448 MODEL:106

VT 73 E

PROJECT NAME:	BRANDON
PROJECT NUMBER:	NH 019-3(496)
FILE NAME: zb008s6-xs.dgn	PLOT DATE: 2/23/2017
PROJECT LEADER: C. BEAN	DRAWN BY: N. LEMAY
DESIGNED BY: D. MUNRO	CHECKED BY: D. MUNRO
	SHEET 578 OF 601



30+020.0



30+016.1
DRIVE RT

0 2 4 6 8 10
SCALE IN METERS

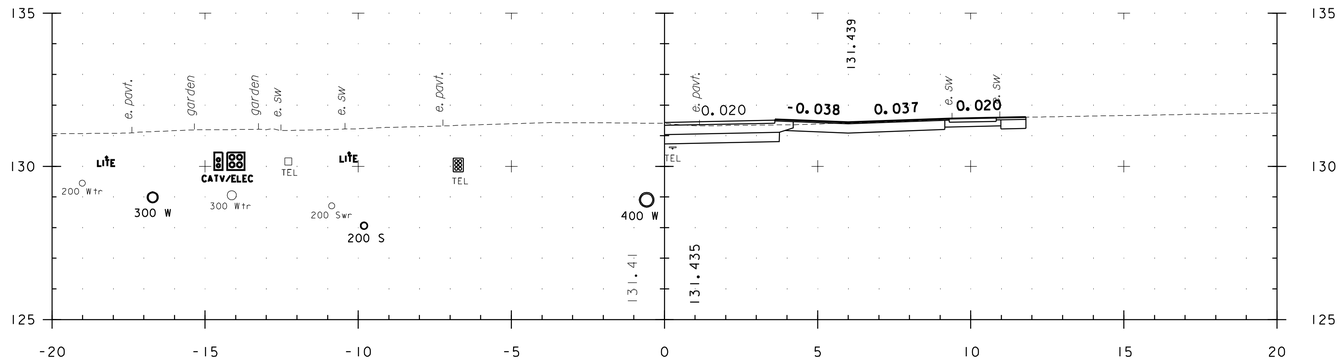
LOT-A

PROJECT NAME: BRANDON
PROJECT NUMBER: NH 019-3(496)

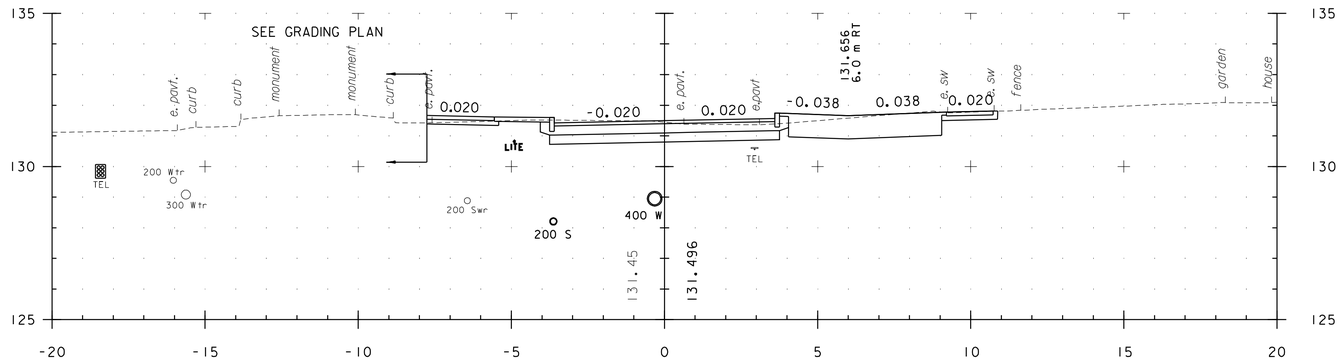
FILE NAME: zb008s6-xs.dgn
PROJECT LEADER: C. BEAN
DESIGNED BY: D. MUNRO

PLOT DATE: 2/23/2017
DRAWN BY: N. LEMAY
CHECKED BY: D. MUNRO
SHEET 579 OF 601

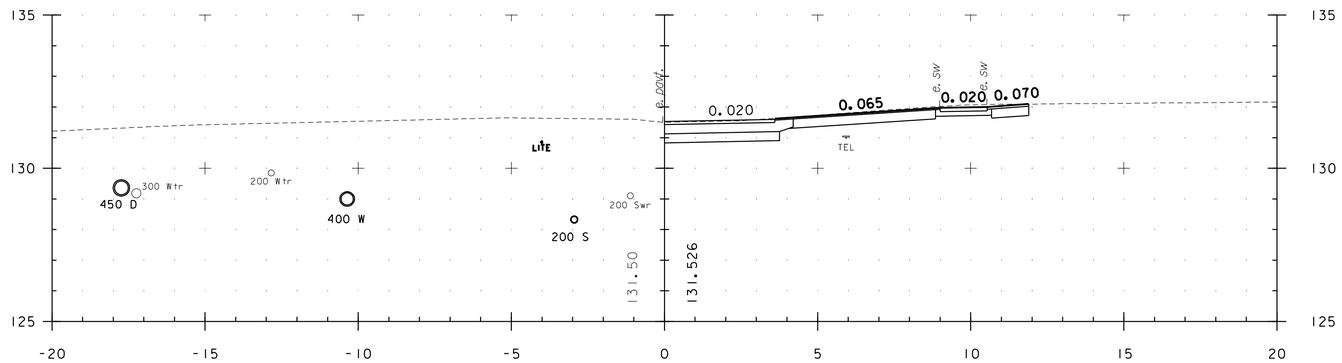
CLD 02-0448 MODEL: 107



30+049.4
DRIVE RT



30+040.0



30+028.4
DRIVE RT

0 2 4 6 8 10
SCALE IN METERS

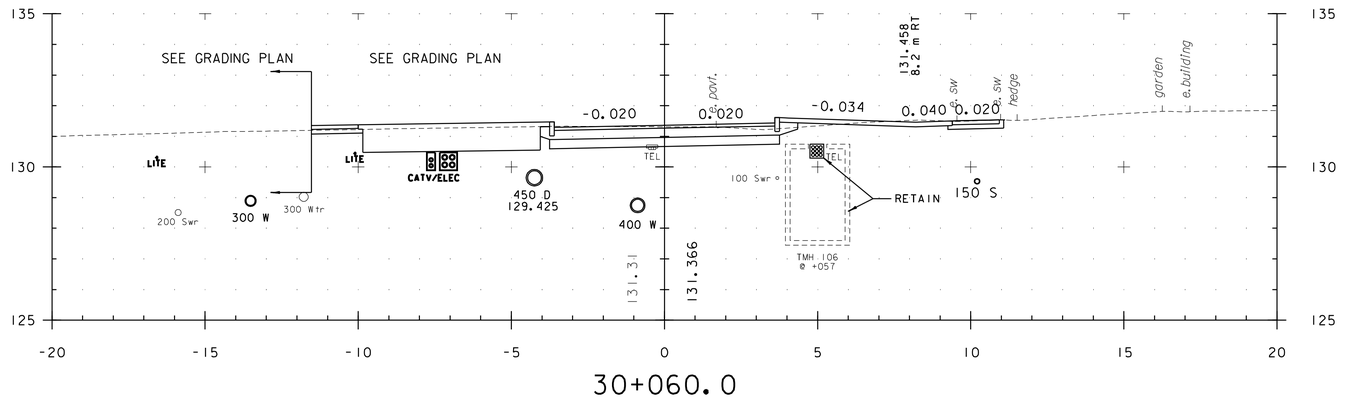
LOT-A

PROJECT NAME: BRANDON
PROJECT NUMBER: NH 019-3(496)

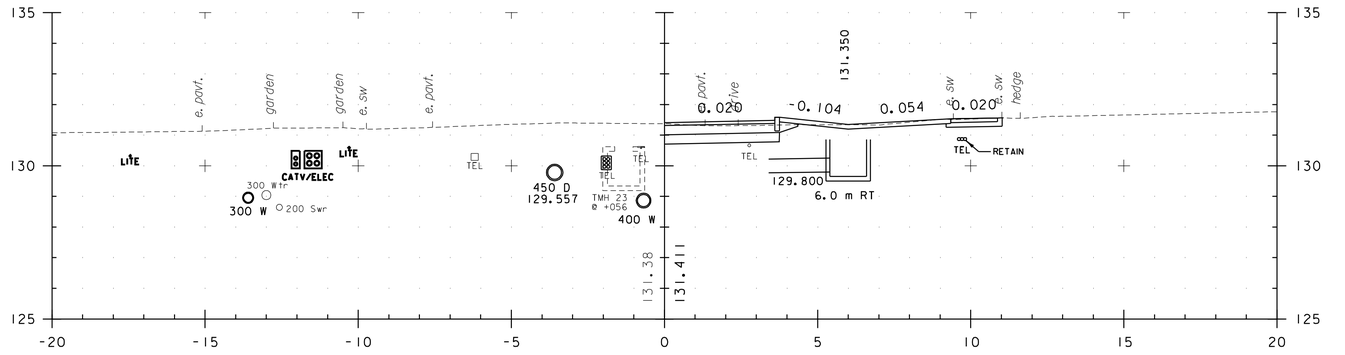
FILE NAME: zb008s6-xs.dgn
PROJECT LEADER: C. BEAN
DESIGNED BY: D. MUNRO

PLOT DATE: 2/23/2017
DRAWN BY: N. LEMAY
CHECKED BY: D. MUNRO
SHEET 580 OF 601

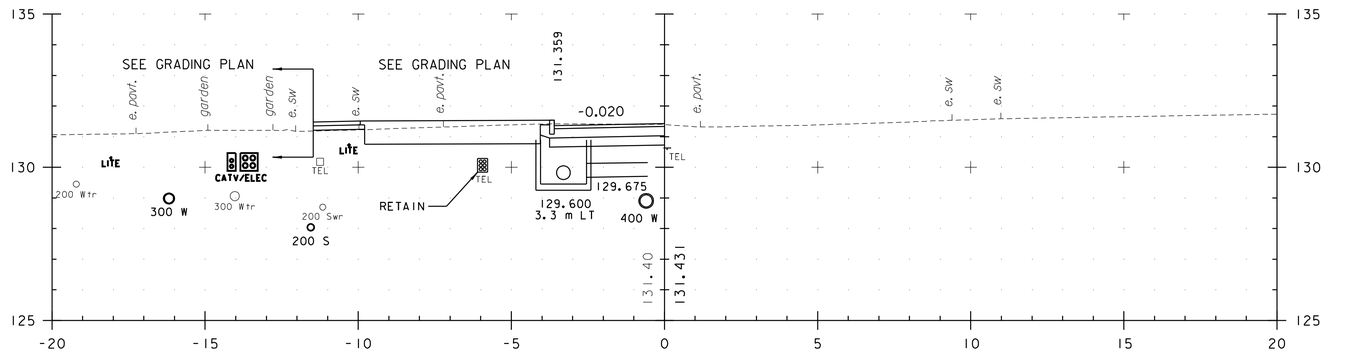
CLD 02-0448 MODEL: 108



30+060.0



30+053.0



30+050.0

0 2 4 6 8 10
SCALE IN METERS

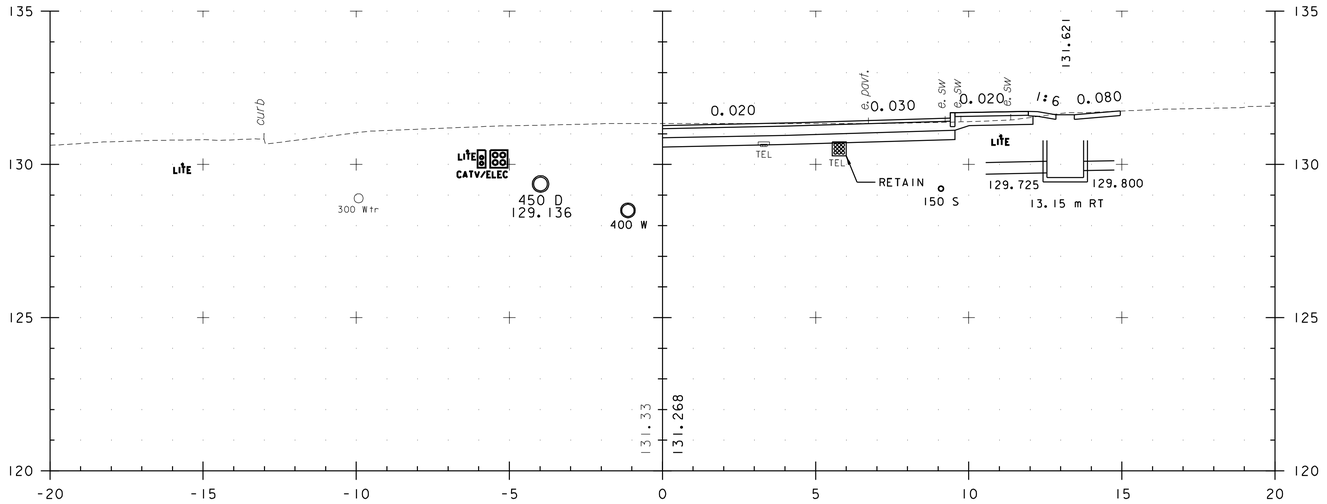
LOT-A

PROJECT NAME:	BRANDON
PROJECT NUMBER:	NH 019-3(496)

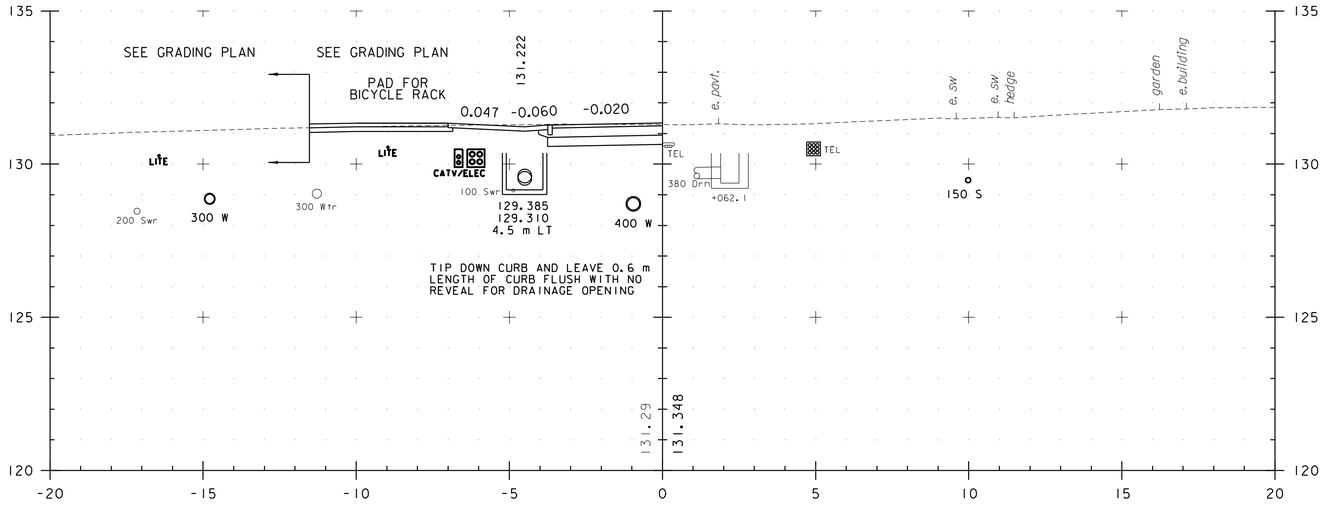
FILE NAME: zb008s6-xs.dgn	PLOT DATE: 2/23/2017
PROJECT LEADER: C. BEAN	DRAWN BY: N. LEMAY
DESIGNED BY: D. MUNRO	CHECKED BY: D. MUNRO
	SHEET 581 OF 601

CLD 02-0448 MODEL: 109

ISSUED FOR CONSTRUCTION



30+075.0



30+062.7

0 2 4 6 8 10
SCALE IN METERS

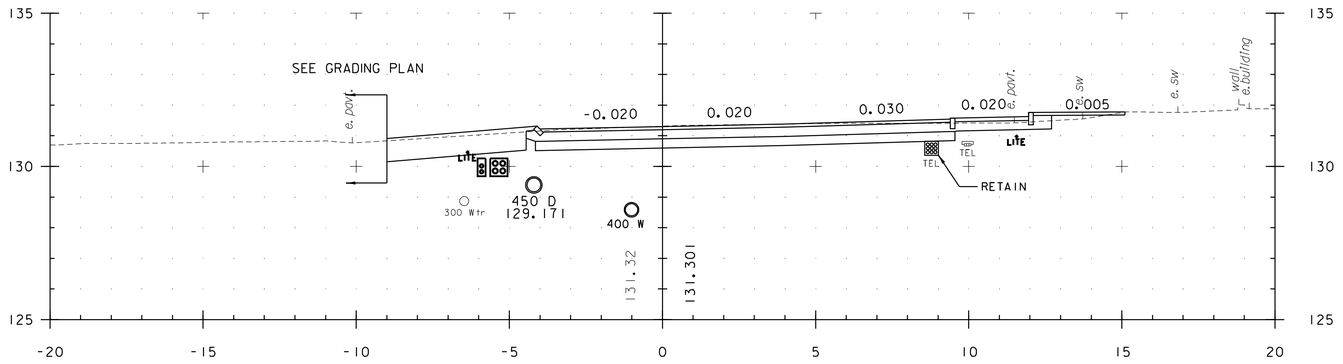
LOT-A

PROJECT NAME: BRANDON
PROJECT NUMBER: NH 019-3(496)

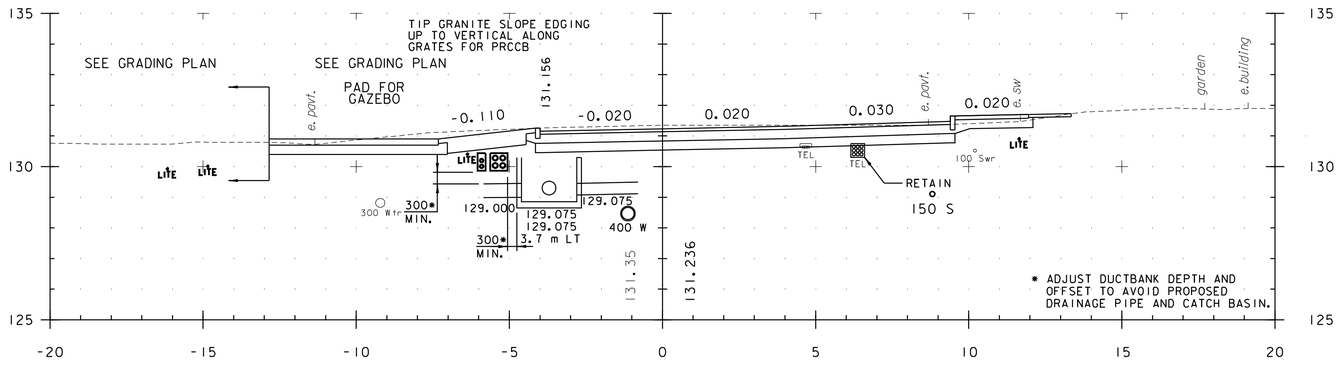
FILE NAME: zb008s6-xs.dgn
PROJECT LEADER: C. BEAN
DESIGNED BY: D. MUNRO

PLOT DATE: 2/23/2017
DRAWN BY: N. LEMAY
CHECKED BY: D. MUNRO
SHEET 582 OF 601

CLD 02-0448 MODEL: 110



30+100.0



30+080.0

0 2 4 6 8 10
SCALE IN METERS

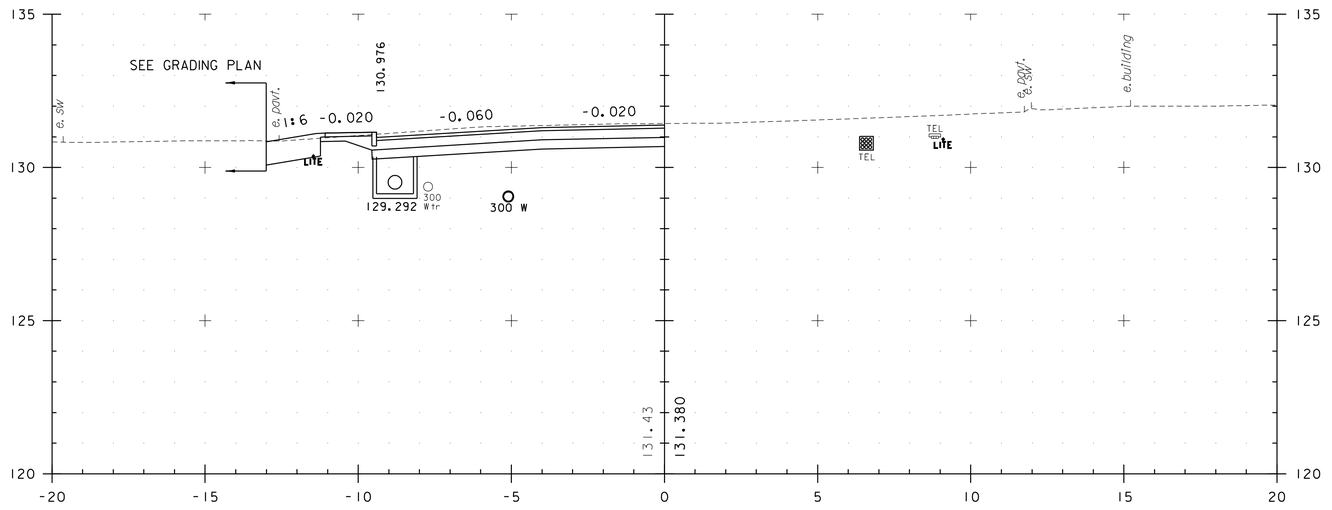
LOT-A

PROJECT NAME: BRANDON
PROJECT NUMBER: NH 019-3(496)

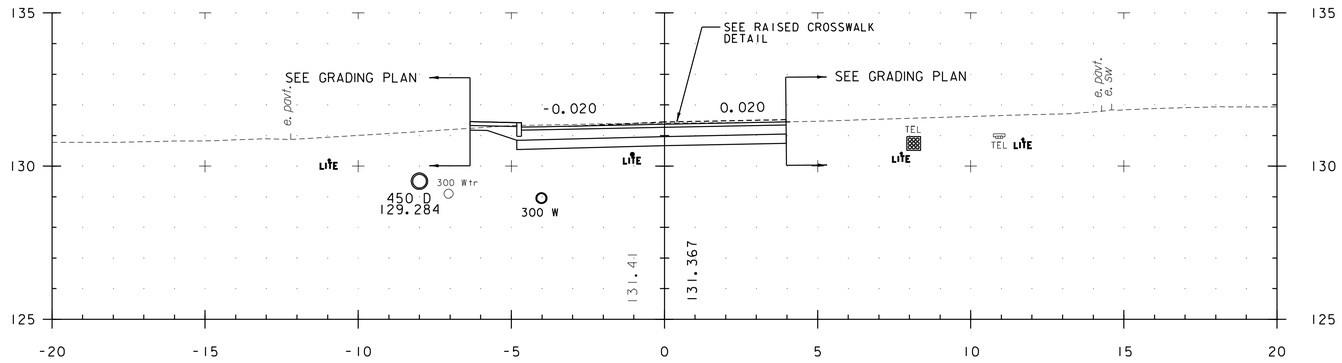
FILE NAME: zb008s6-xs.dgn
PROJECT LEADER: C. BEAN
DESIGNED BY: D. MUNRO

PLOT DATE: 2/23/2017
DRAWN BY: N. LEMAY
CHECKED BY: D. MUNRO
SHEET 583 OF 601

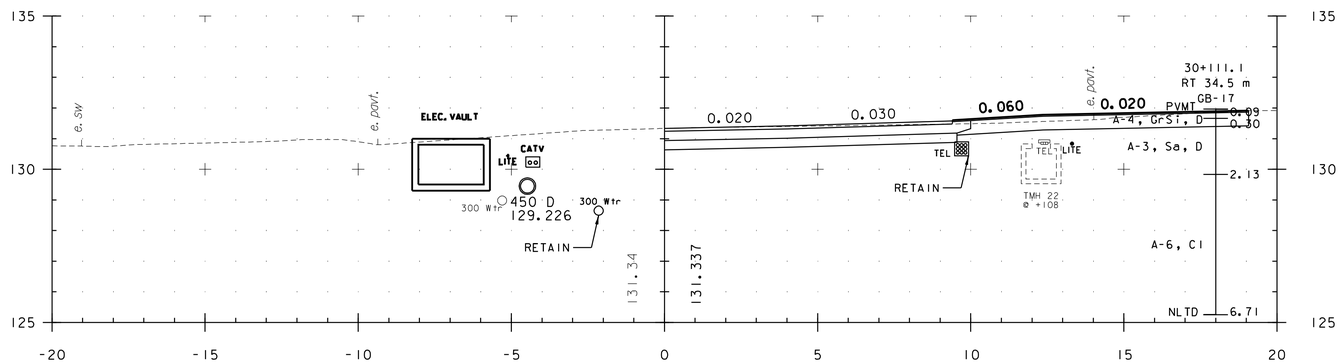
CLD 02-0448 MODEL: III



30+124.2
(PERPENDICULAR TO TANGENT AHEAD)



30+120.0



30+111.1
DRIVE RT

0 2 4 6 8 10
SCALE IN METERS

LOT-A

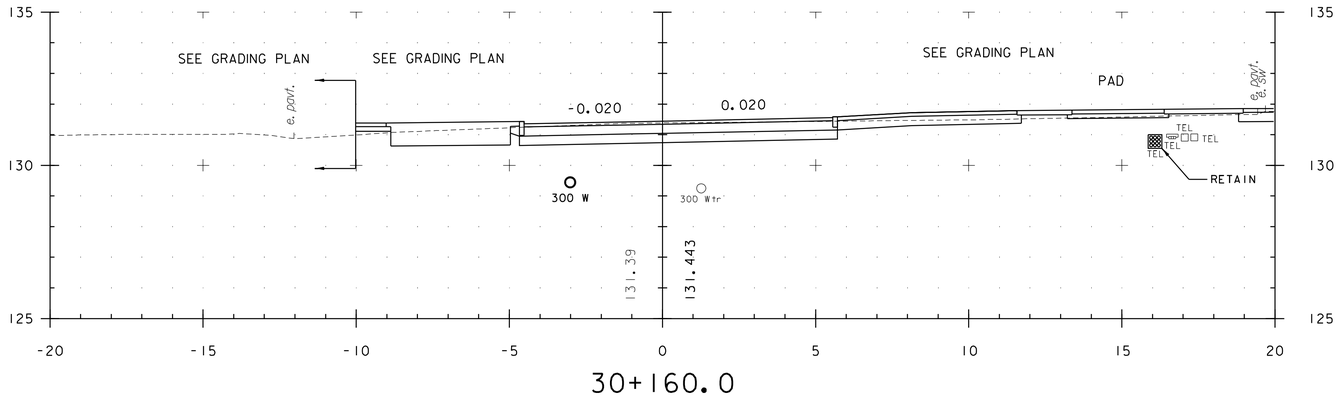
PROJECT NAME: BRANDON
PROJECT NUMBER: NH 019-3(496)

FILE NAME: zb008s6-xs.dgn
PROJECT LEADER: C. BEAN
DESIGNED BY: D. MUNRO

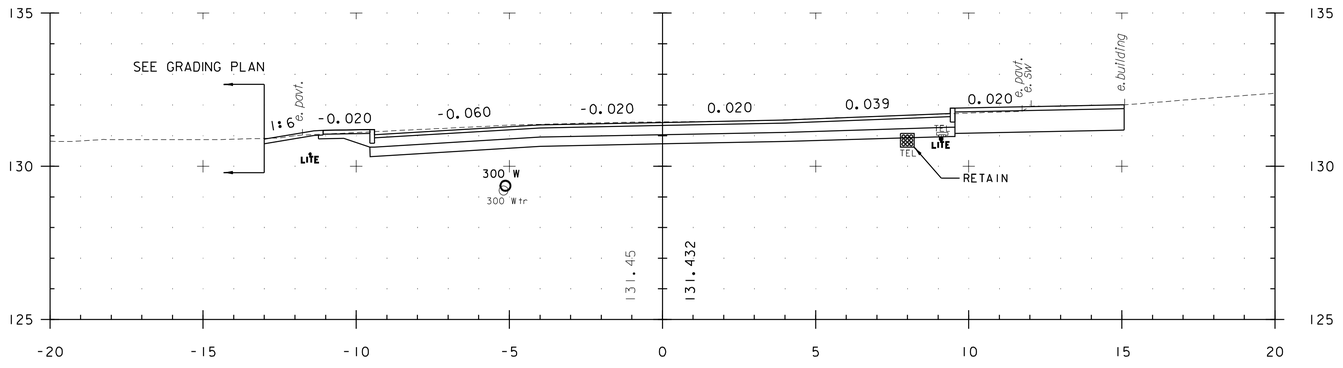
PLOT DATE: 2/23/2017
DRAWN BY: N. LEMAY
CHECKED BY: D. MUNRO
SHEET 584 OF 601

CLD 02-0448 MODEL: 112

ISSUED FOR CONSTRUCTION



30+160.0



30+140.0

0 2 4 6 8 10
SCALE IN METERS

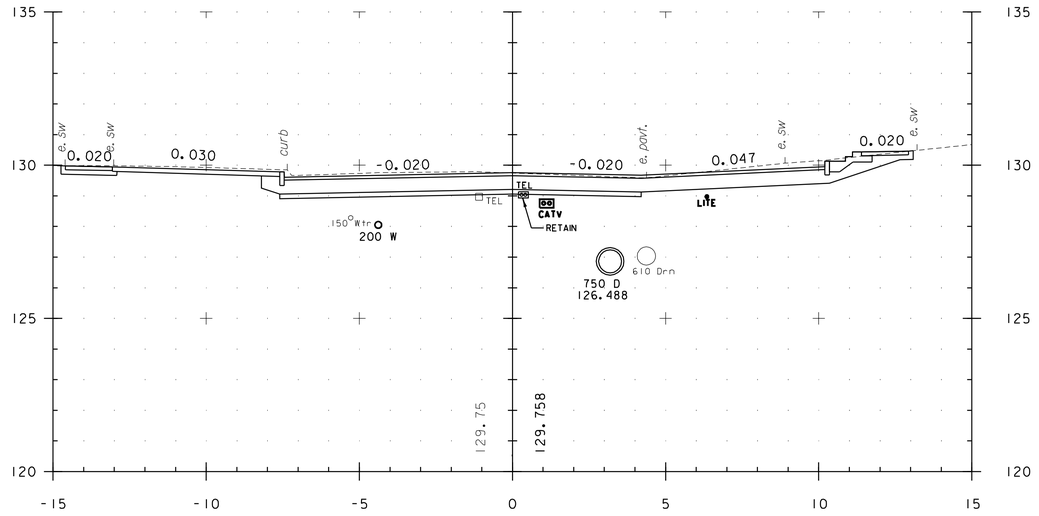
LOT-A

PROJECT NAME:	BRANDON
PROJECT NUMBER:	NH 019-3(496)

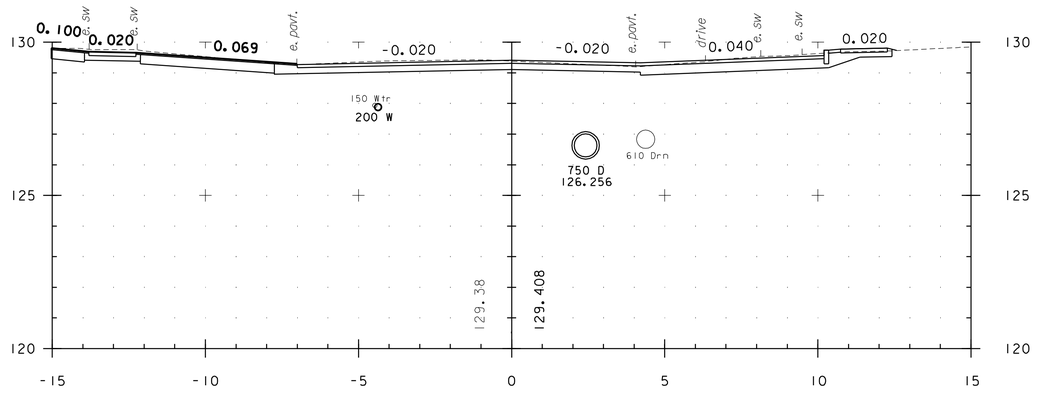
FILE NAME: zb008s6-xs.dgn	PLOT DATE: 2/23/2017
PROJECT LEADER: C. BEAN	DRAWN BY: N. LEMAY
DESIGNED BY: D. MUNRO	CHECKED BY: D. MUNRO
	SHEET 585 OF 601

CLD 02-0448 MODEL: 113

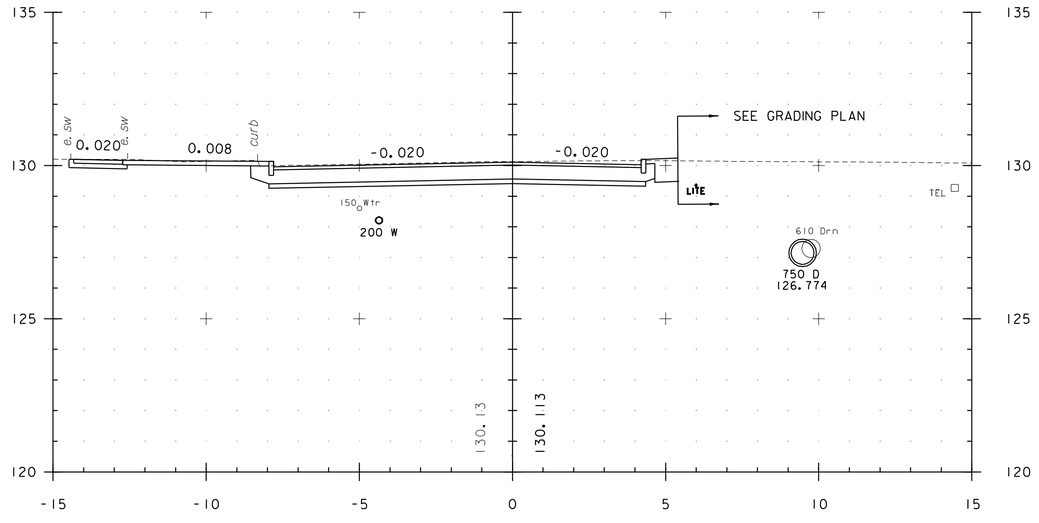
ISSUED FOR CONSTRUCTION



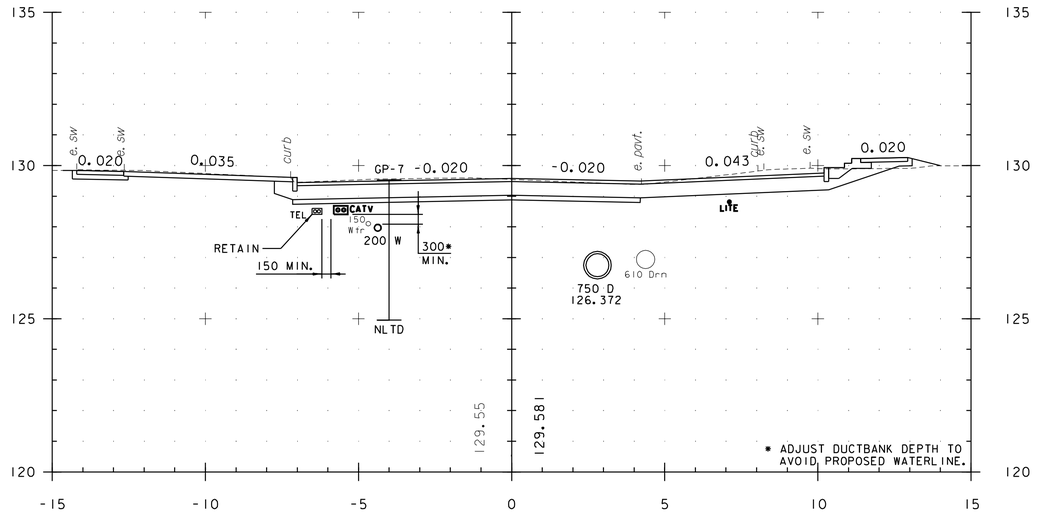
34+040.0



34+060.0
DRIVE LT



34+020.0



34+050.0

CARVER ST

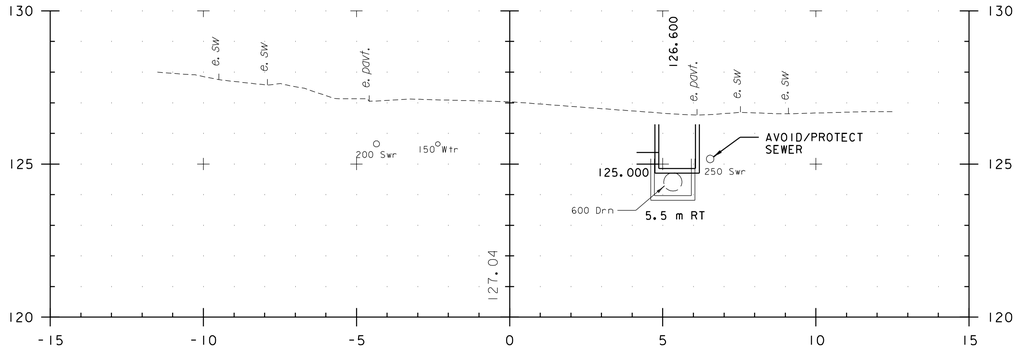
PROJECT NAME:	BRANDON
PROJECT NUMBER:	NH 019-3(496)

FILE NAME: zb008s6-xs.dgn	PLOT DATE: 2/23/2017
PROJECT LEADER: C. BEAN	DRAWN BY: N. LEMAY
DESIGNED BY: D. MUNRO	CHECKED BY: D. MUNRO
	SHEET 586 OF 601

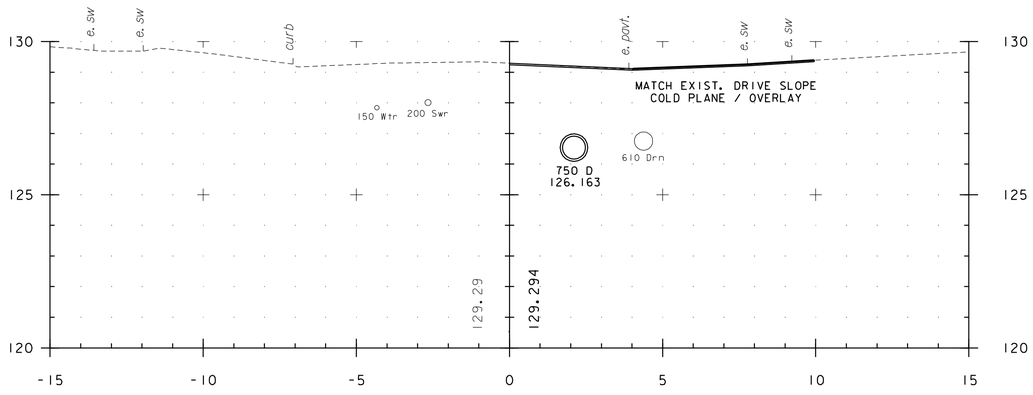
0 2 4 6 8 10
SCALE IN METERS

CLD 02-0448 MODEL: 114

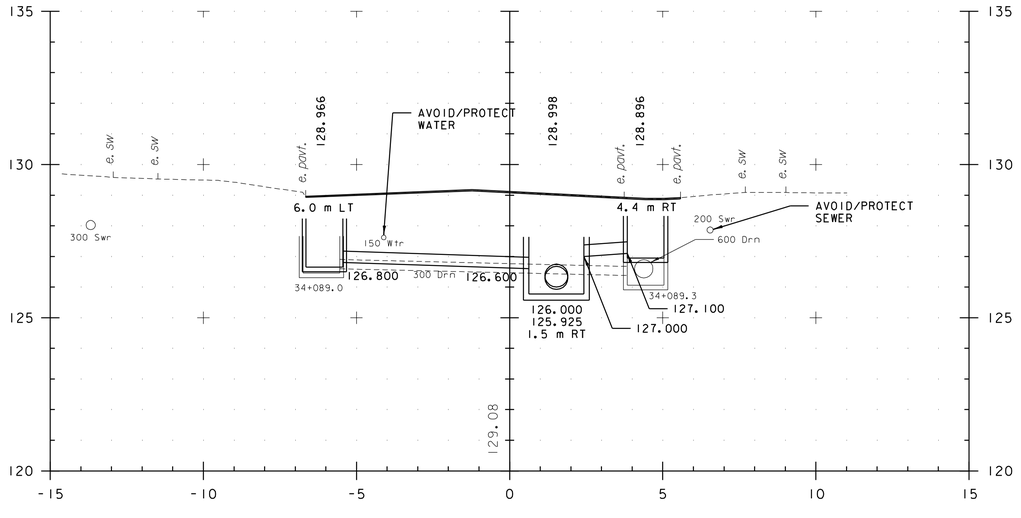
ISSUED FOR CONSTRUCTION



34+194.1



34+068.0
DRIVE RT



34+083.0

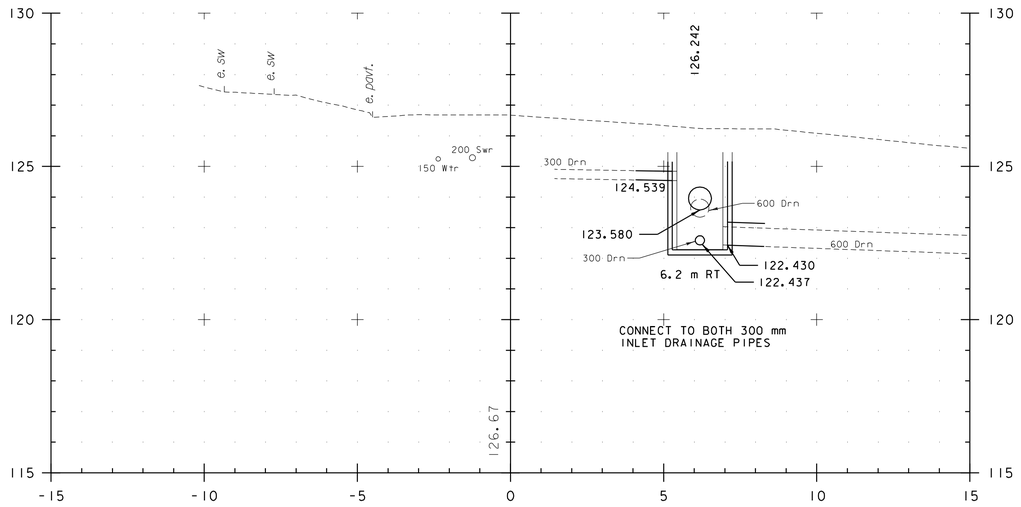
CARVER ST

PROJECT NAME:	BRANDON
PROJECT NUMBER:	NH 019-3(496)

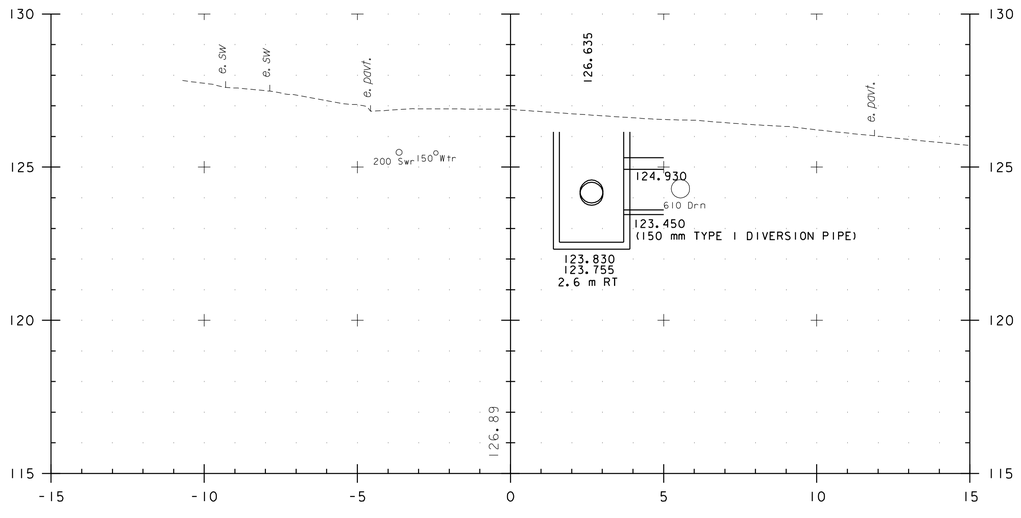
FILE NAME: zb008s6-xs.dgn		PLOT DATE:	2/23/2017
PROJECT LEADER:	C. BEAN	DRAWN BY:	N. LEMAY
DESIGNED BY:	D. MUNRO	CHECKED BY:	D. MUNRO
		SHEET	587 OF 601

0 2 4 6 8 10
SCALE IN METERS

CLD 02-0448 MODEL: 115



34+207.0



34+199.7

0 2 4 6 8 10
SCALE IN METERS

CARVER ST

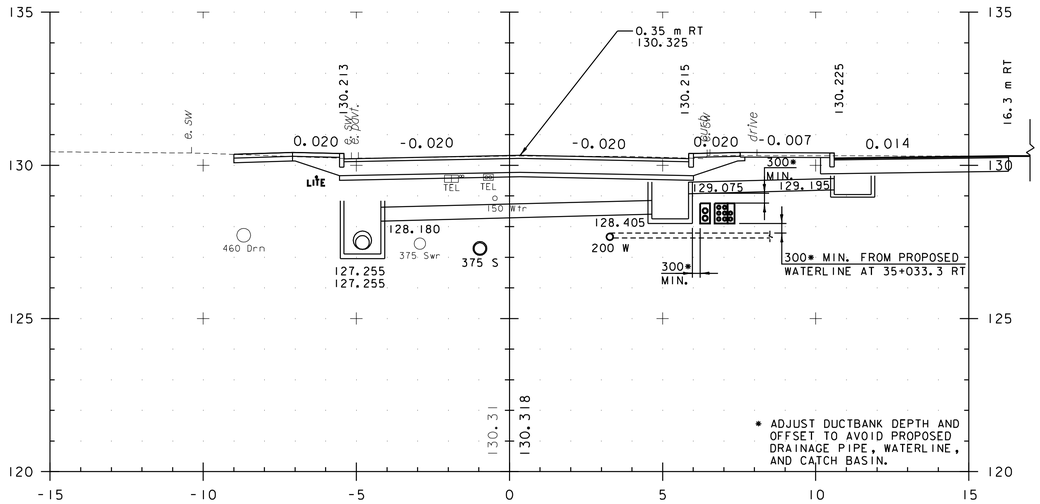
PROJECT NAME: BRANDON
PROJECT NUMBER: NH 019-3(496)

FILE NAME: zb008s6-xs.dgn
PROJECT LEADER: C. BEAN
DESIGNED BY: D. MUNRO

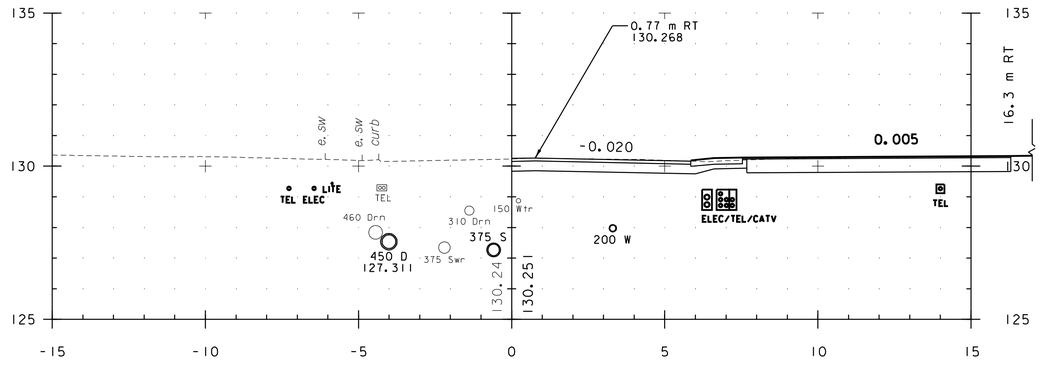
PLOT DATE: 2/23/2017
DRAWN BY: N. LEMAY
CHECKED BY: D. MUNRO
SHEET 588 OF 601

CLD 02-0448 MODEL: 116

ISSUED FOR CONSTRUCTION

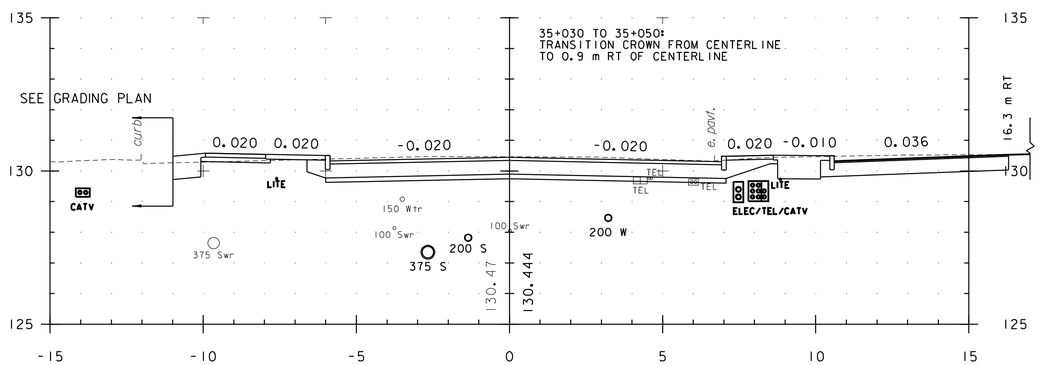


35+037.8

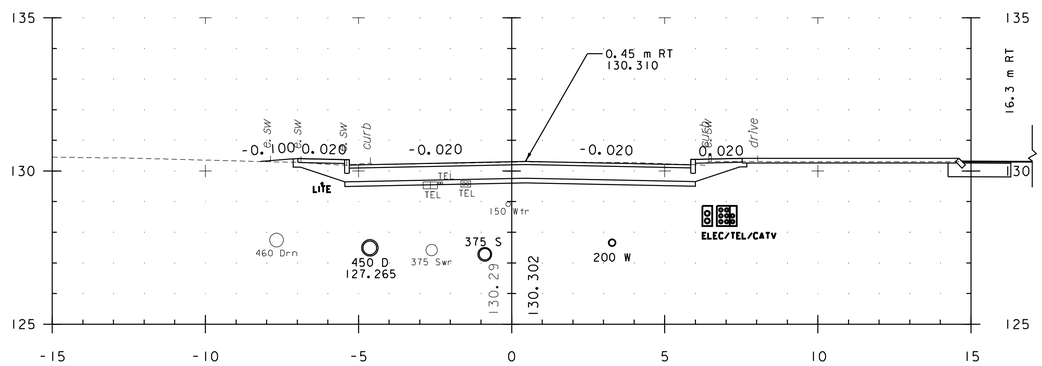


35+047.1

DRIVE RT



35+020.0



35+040.0

UNION ST

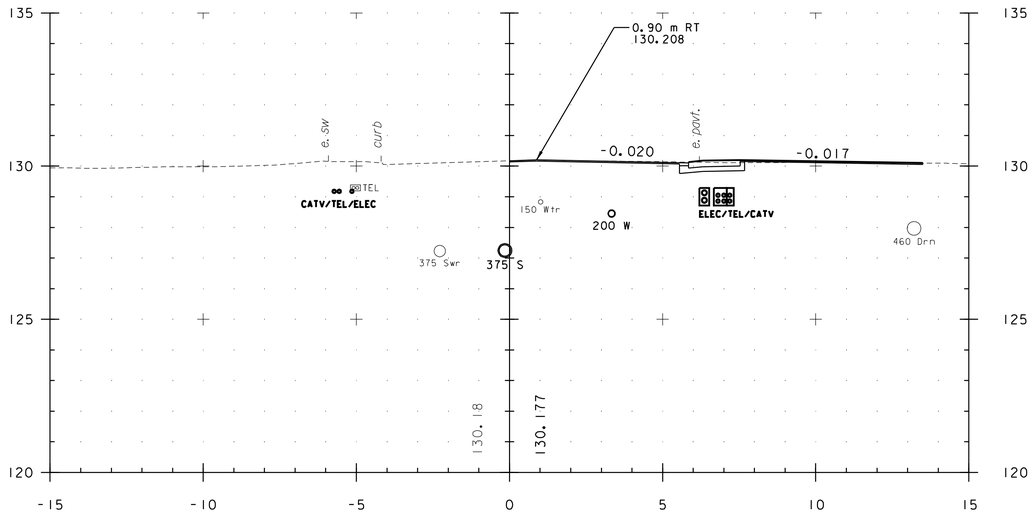
0 2 4 6 8 10
SCALE IN METERS

PROJECT NAME: BRANDON	
PROJECT NUMBER: NH 019-3(496)	
FILE NAME: zb008s6-xs.dgn	PLOT DATE: 2/23/2017
PROJECT LEADER: C. BEAN	DRAWN BY: N. LEMAY
DESIGNED BY: D. MUNRO	CHECKED BY: D. MUNRO
	SHEET 589 OF 601

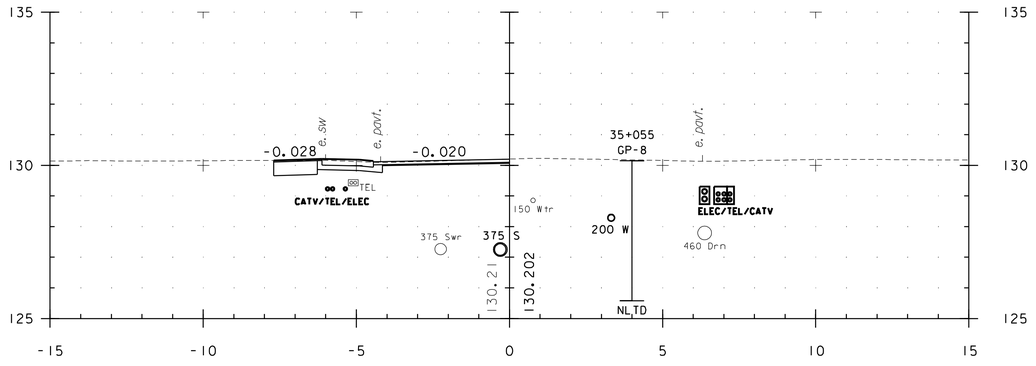
CLD 02-0448 MODEL: II7

ISSUED FOR CONSTRUCTION

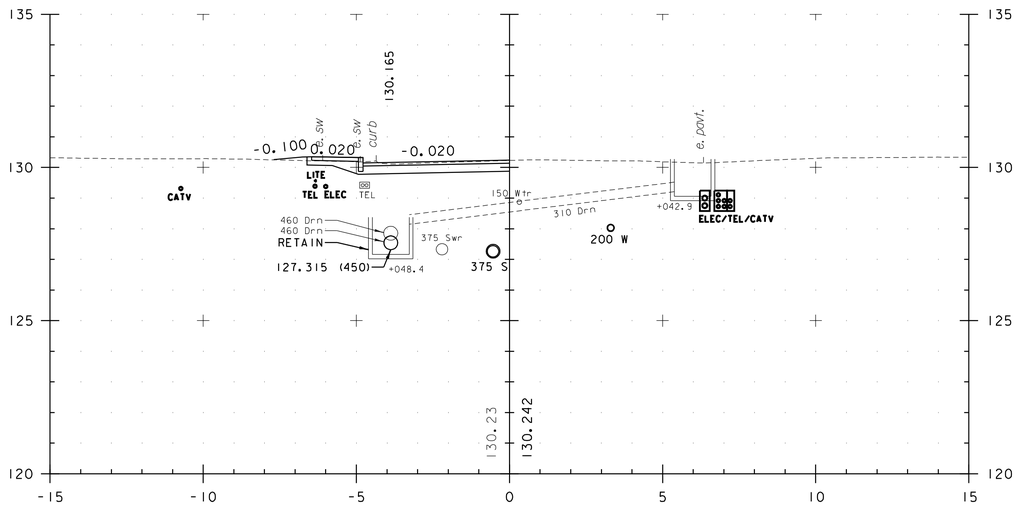
VAOT Metric



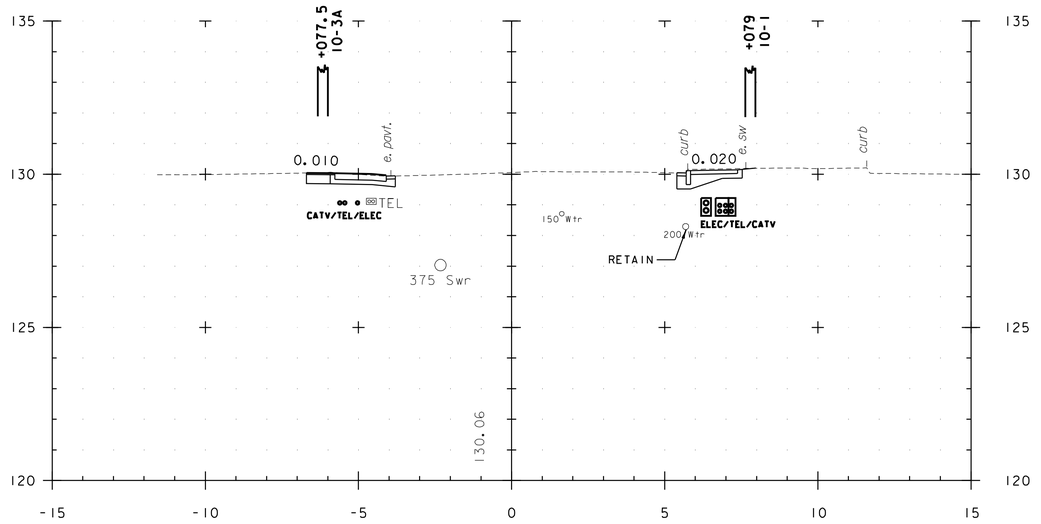
35+058.0
DRIVE RT



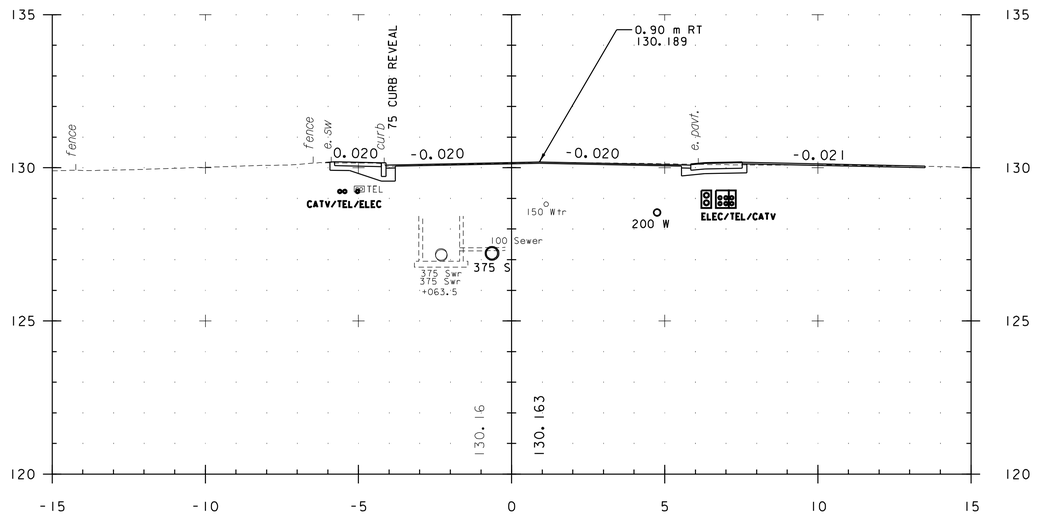
35+054.2
DRIVE LT



35+048.4



35+074.3
DRIVE LT



35+060.0

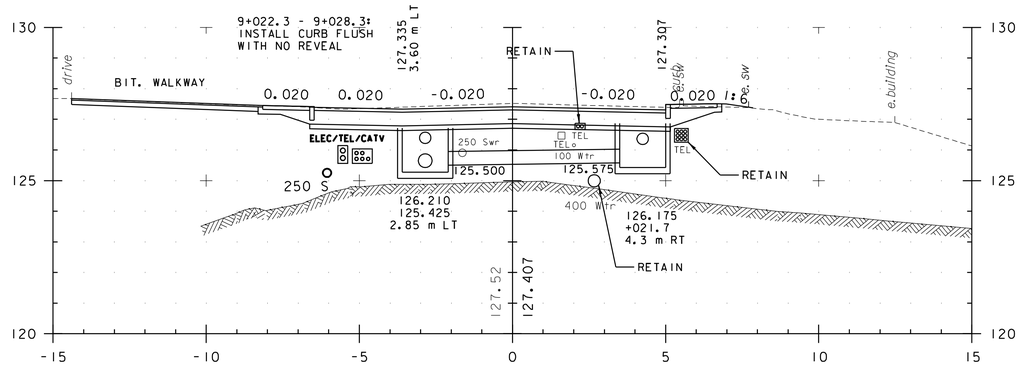
0 2 4 6 8 10
SCALE IN METERS

UNION ST

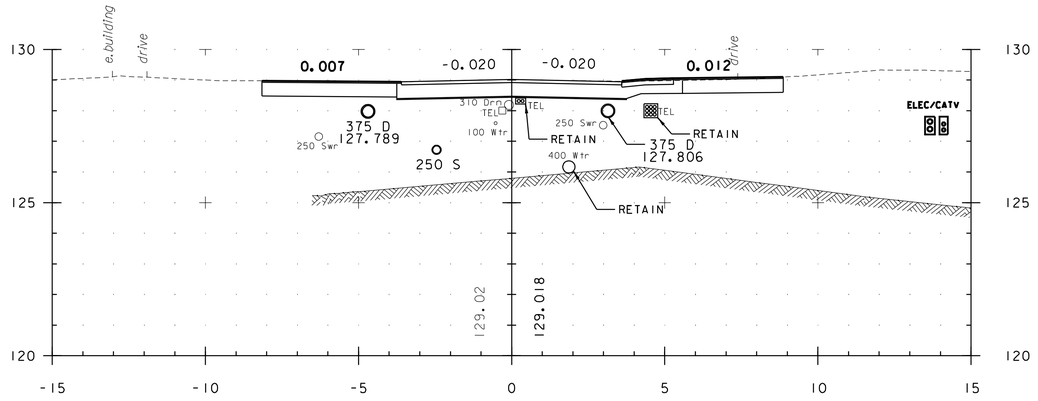
PROJECT NAME:	BRANDON
PROJECT NUMBER:	NH 019-3(496)

FILE NAME: zb008s6-xs.dgn		PLOT DATE:	2/23/2017
PROJECT LEADER:	C. BEAN	DRAWN BY:	N. LEMAY
DESIGNED BY:	D. MUNRO	CHECKED BY:	D. MUNRO
		SHEET	590 OF 601

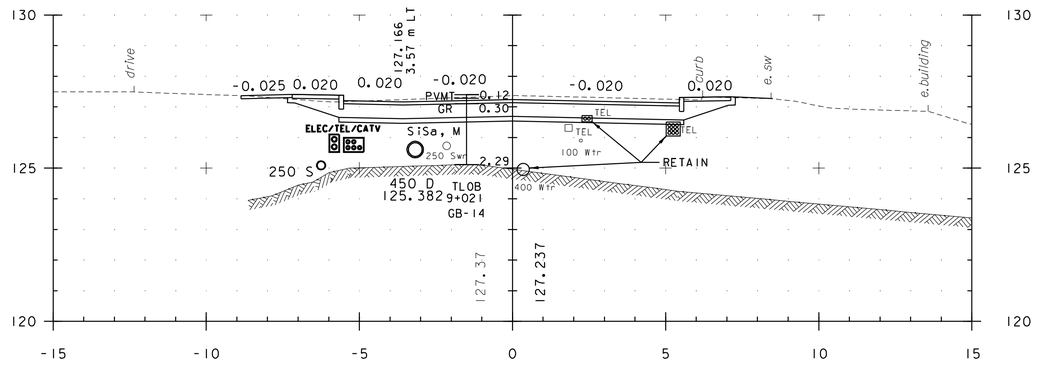
CLD 02-0448 MODEL: 118



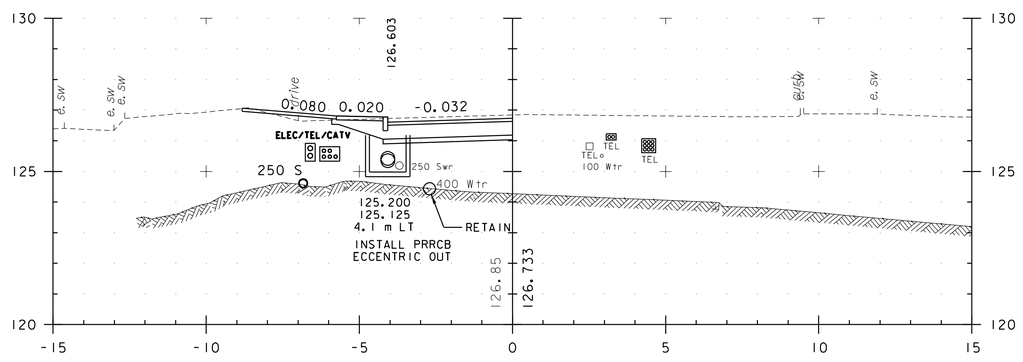
9+022.0



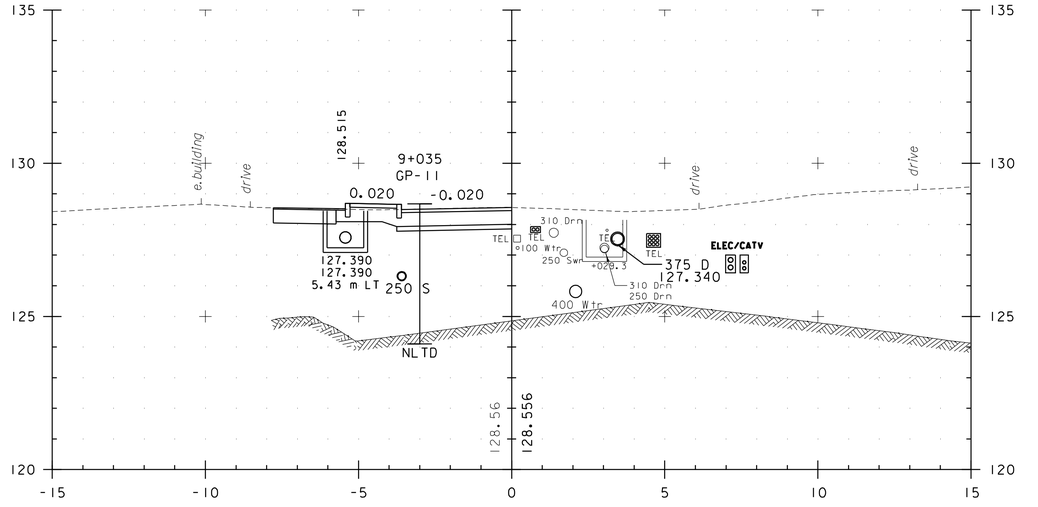
9+040.0
DRIVE RT



9+020.0



9+014.0



9+035.0

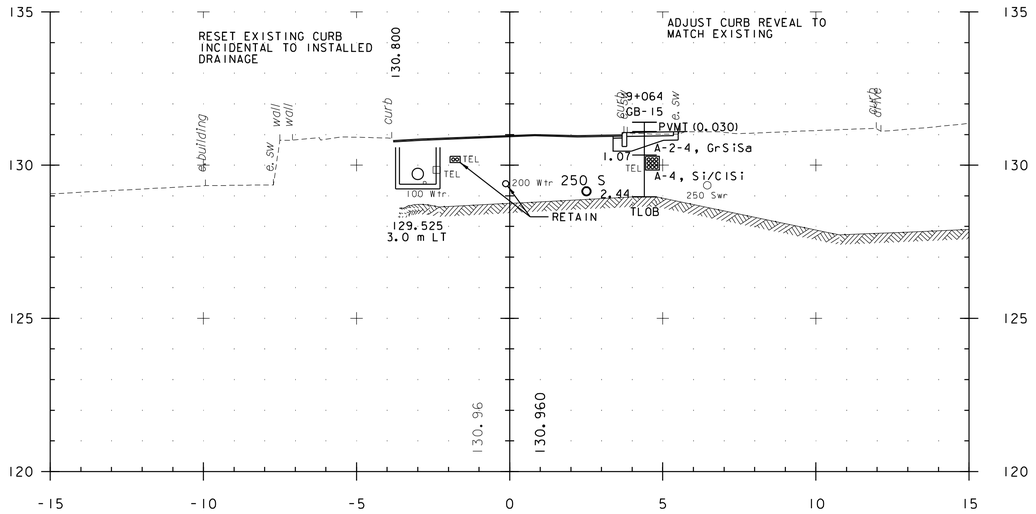
W. SEMINARY ST

PROJECT NAME:	BRANDON
PROJECT NUMBER:	NH 019-3(496)
FILE NAME: zb008s6-xs.dgn	PLOT DATE: 2/23/2017
PROJECT LEADER: C. BEAN	DRAWN BY: N. LEMAY
DESIGNED BY: D. MUNRO	CHECKED BY: D. MUNRO
	SHEET 591 OF 601

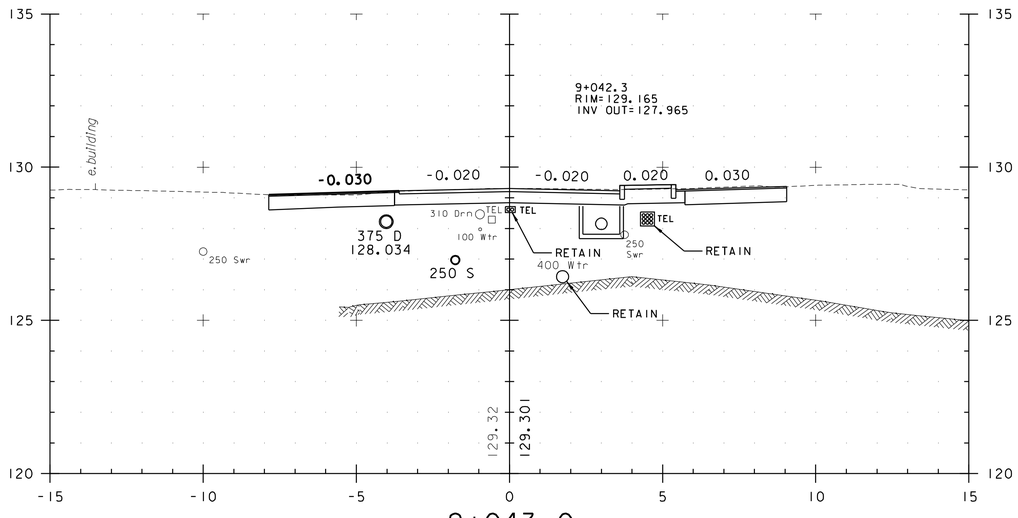
0 2 4 6 8 10
SCALE IN METERS

CLD 02-0448 MODEL: 119

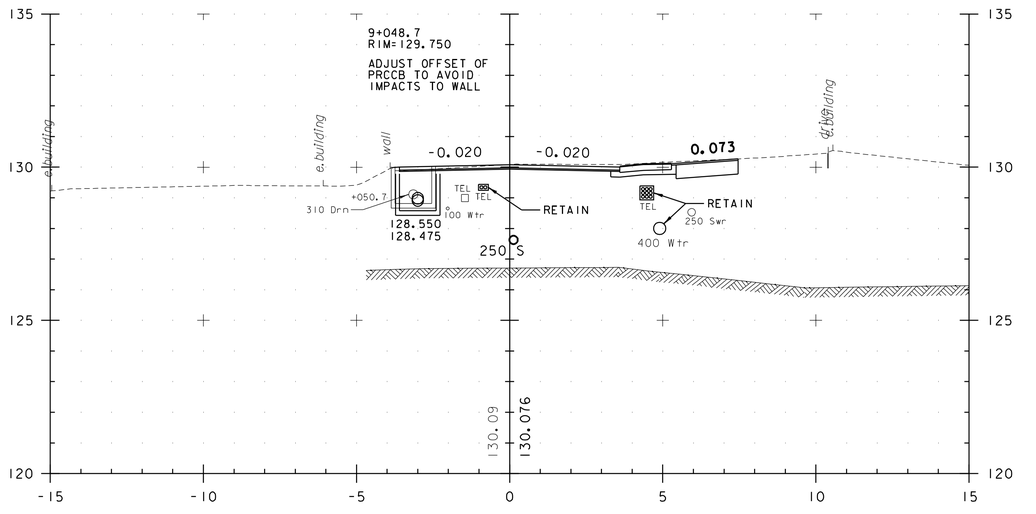
ISSUED FOR CONSTRUCTION



9+060.0



9+043.0
DRIVE LT



9+051.0
DRIVE RT

CLD 02-0448 MODEL:120

0 2 4 6 8 10
SCALE IN METERS

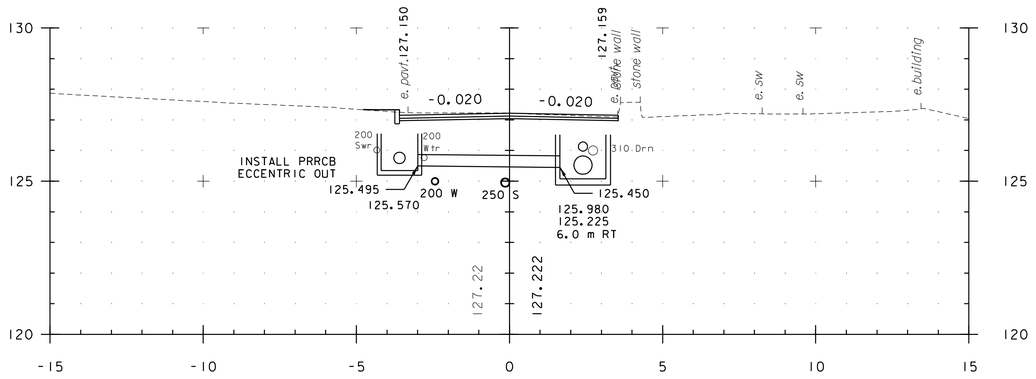
W. SEMINARY ST

PROJECT NAME: BRANDON
PROJECT NUMBER: NH 019-3(496)

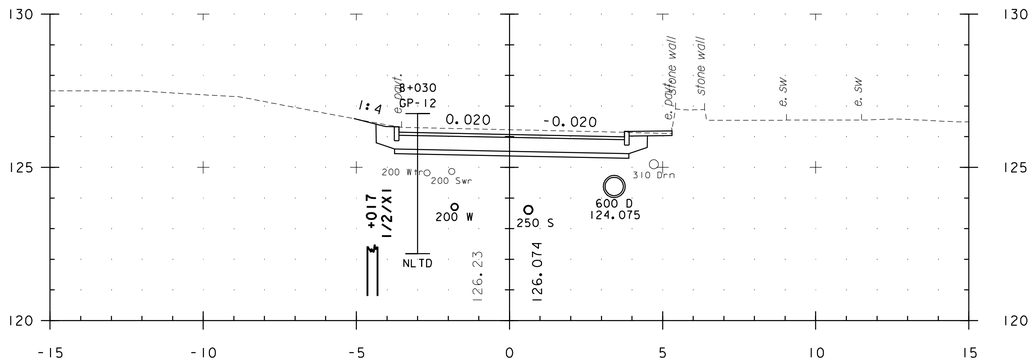
FILE NAME: zb008s6-xs.dgn
PROJECT LEADER: C. BEAN
DESIGNED BY: D. MUNRO

PLOT DATE: 2/23/2017
DRAWN BY: N. LEMAY
CHECKED BY: D. MUNRO
SHEET 592 OF 601

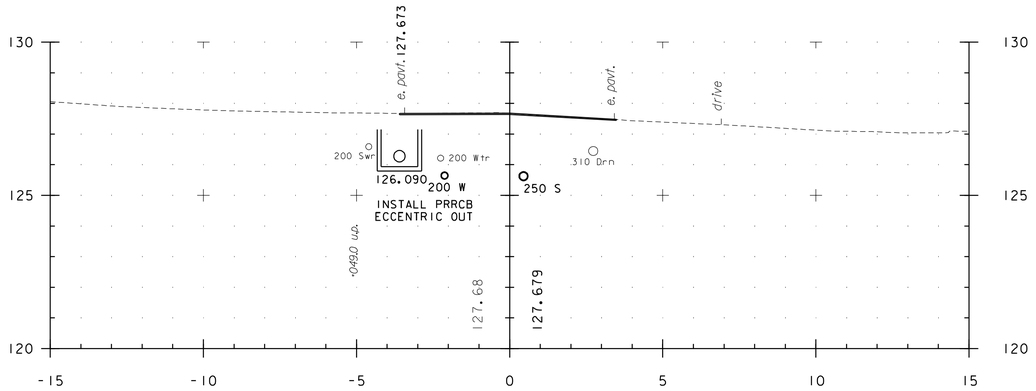
ISSUED FOR CONSTRUCTION



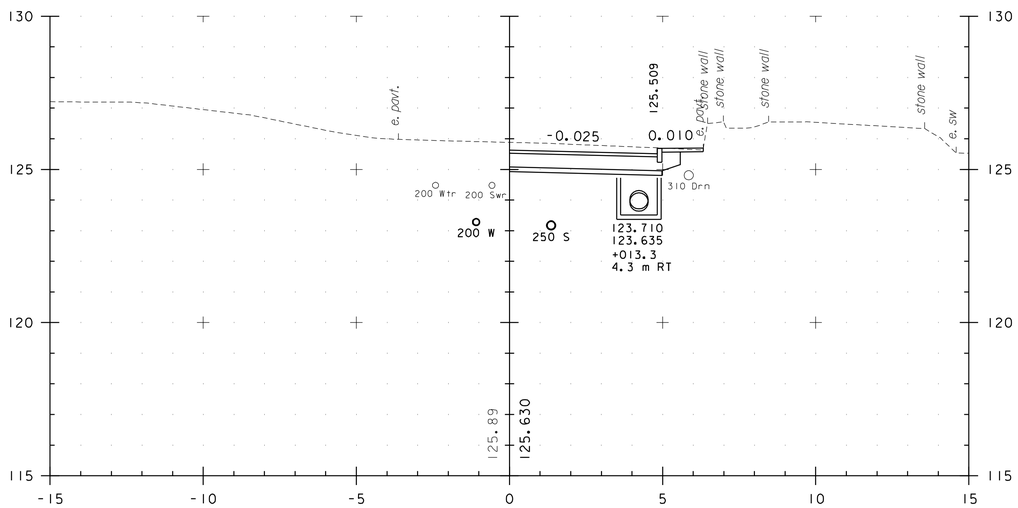
8+040.0



8+020.0



8+050.0



8+013.5

0 2 4 6 8 10
SCALE IN METERS

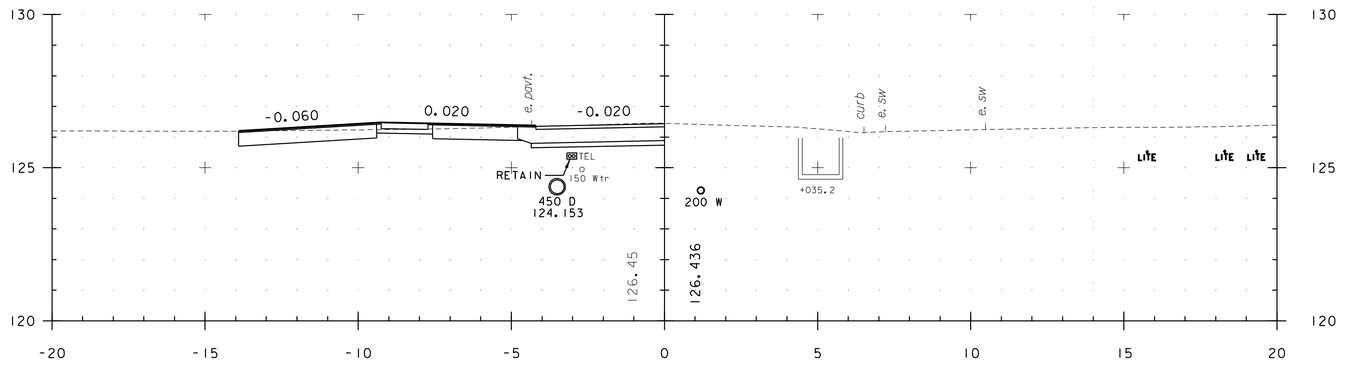
CLD 02-0448 MODEL: I21

PROSPECT ST

PROJECT NAME: BRANDON
PROJECT NUMBER: NH 019-3(496)

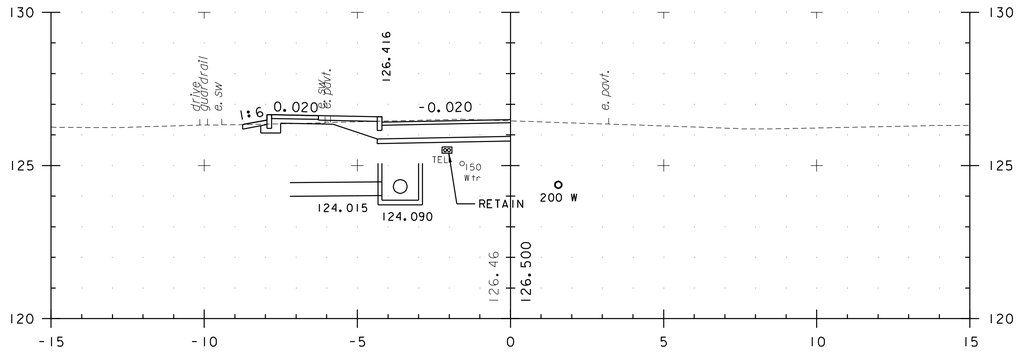
FILE NAME: zb008s6-xs.dgn
PROJECT LEADER: C. BEAN
DESIGNED BY: D. MUNRO

PLOT DATE: 2/23/2017
DRAWN BY: N. LEMAY
CHECKED BY: D. MUNRO
SHEET 593 OF 601

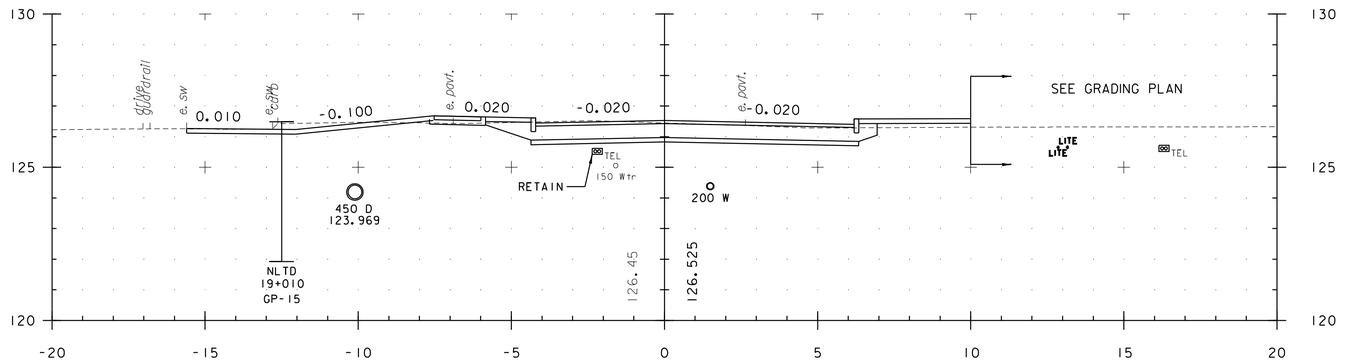


19+032.2

DRIVE LT



19+023.0



19+020.0

0 2 4 6 8 10
SCALE IN METERS

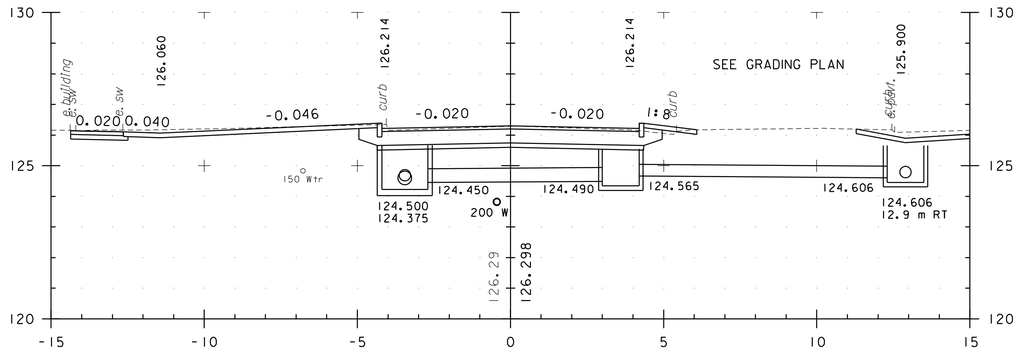
PEARL ST

PROJECT NAME: BRANDON
PROJECT NUMBER: NH 019-3(496)

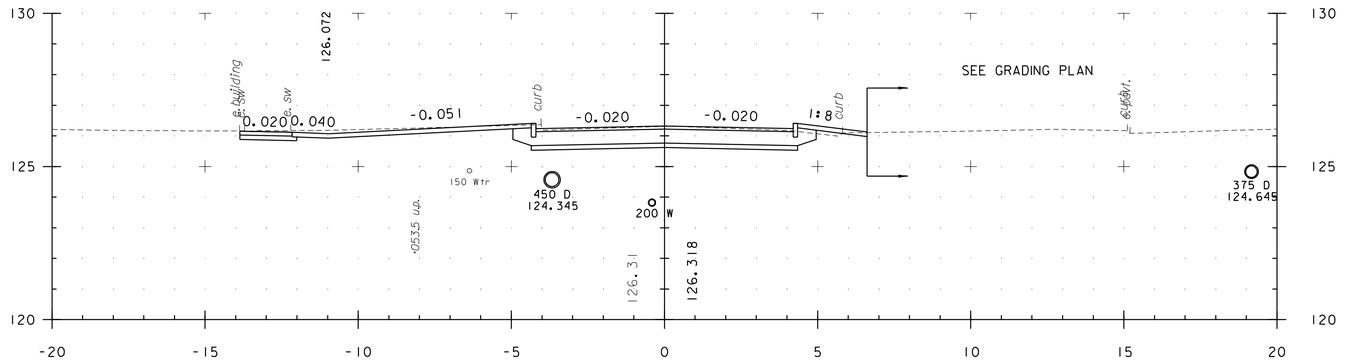
FILE NAME: zb008s6-xs.dgn
PROJECT LEADER: C. BEAN
DESIGNED BY: D. MUNRO
PLOT DATE: 2/23/2017
DRAWN BY: N. LEMAY
CHECKED BY: D. MUNRO
SHEET 594 OF 601

CLD 02-0448 MODEL: I22

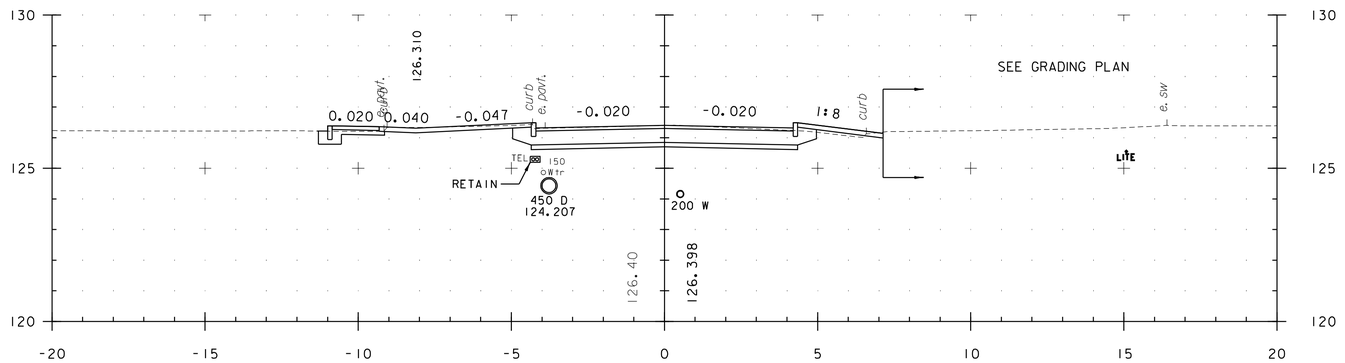
ISSUED FOR CONSTRUCTION



19+065.0



19+060.0



19+040.0

0 2 4 6 8 10
SCALE IN METERS

PEARL ST

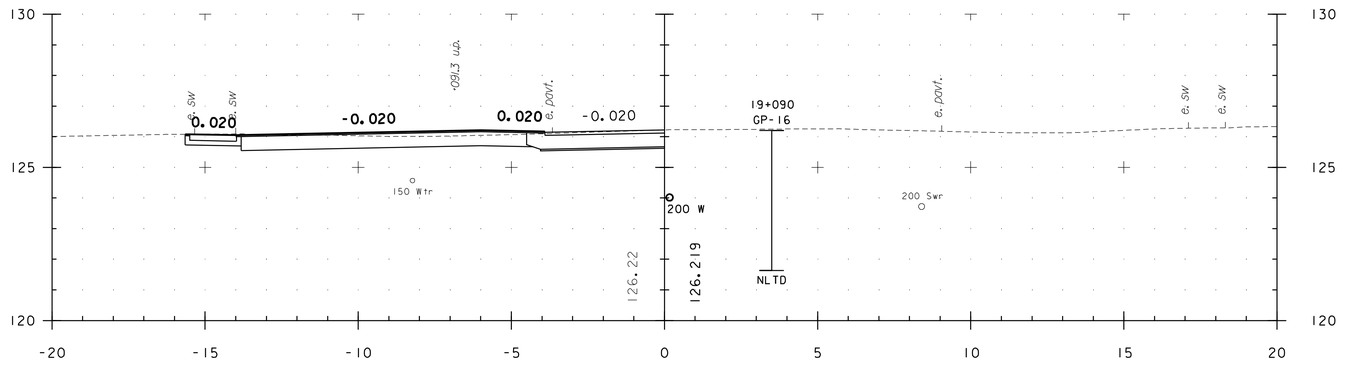
PROJECT NAME: BRANDON
PROJECT NUMBER: NH 019-3(496)

FILE NAME: zb008s6-xs.dgn
PROJECT LEADER: C. BEAN
DESIGNED BY: D. MUNRO

PLOT DATE: 2/23/2017
DRAWN BY: N. LEMAY
CHECKED BY: D. MUNRO
SHEET 595 OF 601

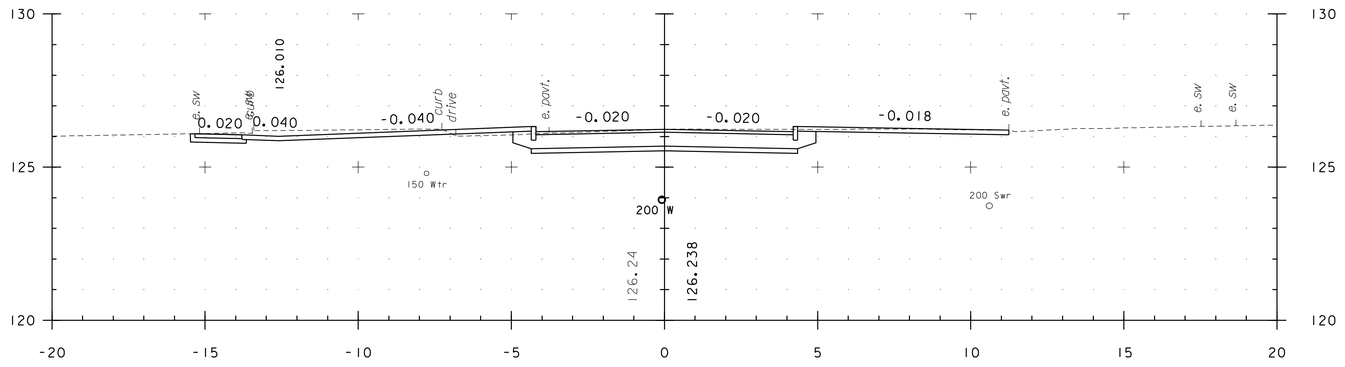
CLD 02-0448 MODEL: 123

ISSUED FOR CONSTRUCTION

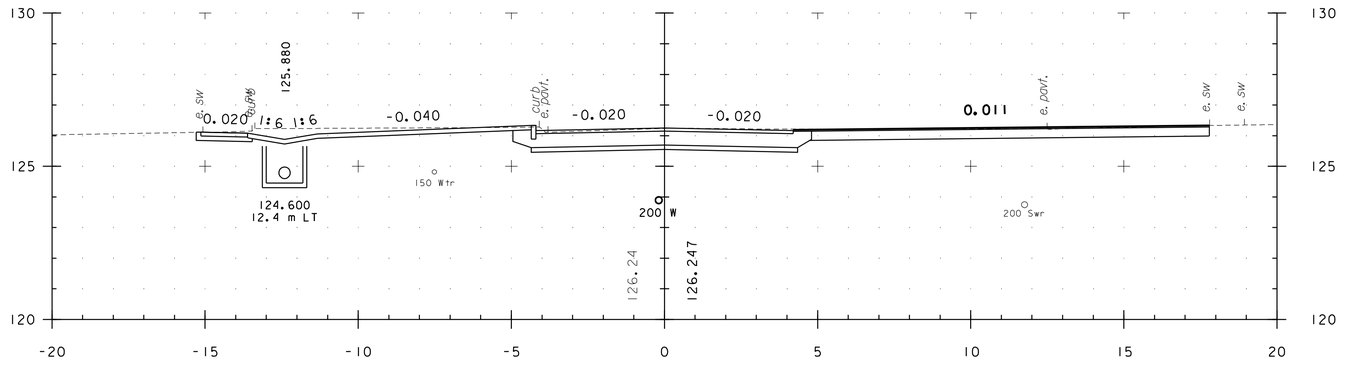


19+084.6

DRIVE LT



19+080.0



19+077.7

DRIVE RT

0 2 4 6 8 10

SCALE IN METERS

PEARL ST

PROJECT NAME: BRANDON

PROJECT NUMBER: NH 019-3(496)

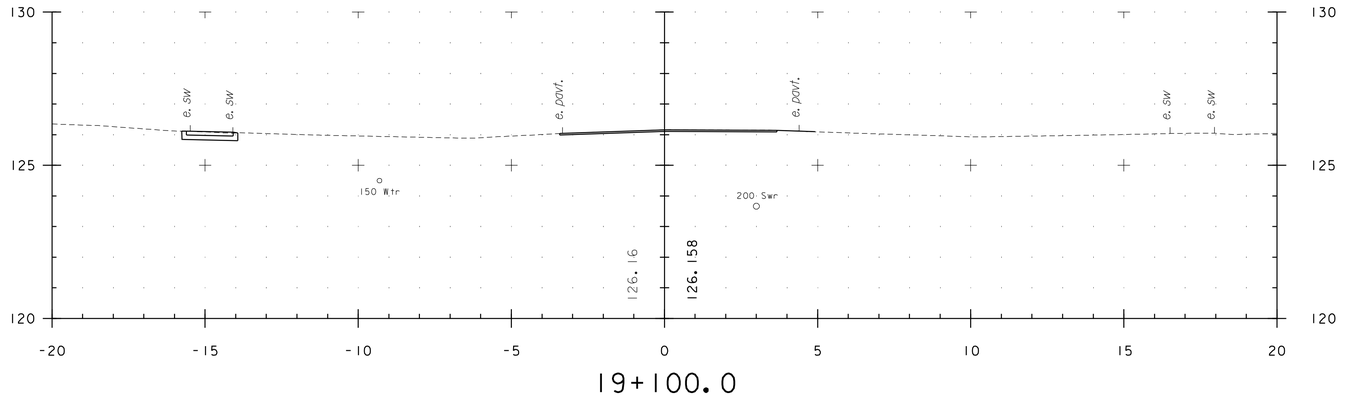
FILE NAME: zb008s6-xs.dgn
PROJECT LEADER: C. BEAN
DESIGNED BY: D. MUNRO

PLOT DATE: 2/23/2017
DRAWN BY: N. LEMAY
CHECKED BY: D. MUNRO
SHEET 596 OF 601

CLD 02-0448 MODEL: I24

ISSUED FOR CONSTRUCTION

Metric



19+100.0

0 2 4 6 8 10
SCALE IN METERS

PEARL ST

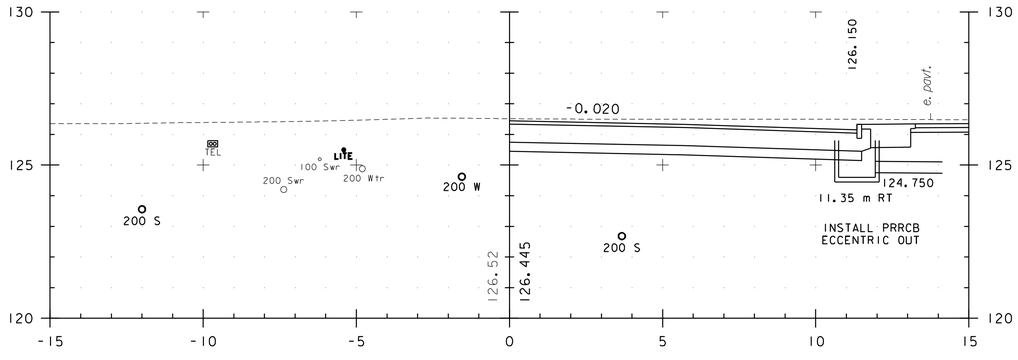
PROJECT NAME: BRANDON
PROJECT NUMBER: NH 019-3(496)

FILE NAME: zb008s6-xs.dgn
PROJECT LEADER: C. BEAN
DESIGNED BY: D. MUNRO

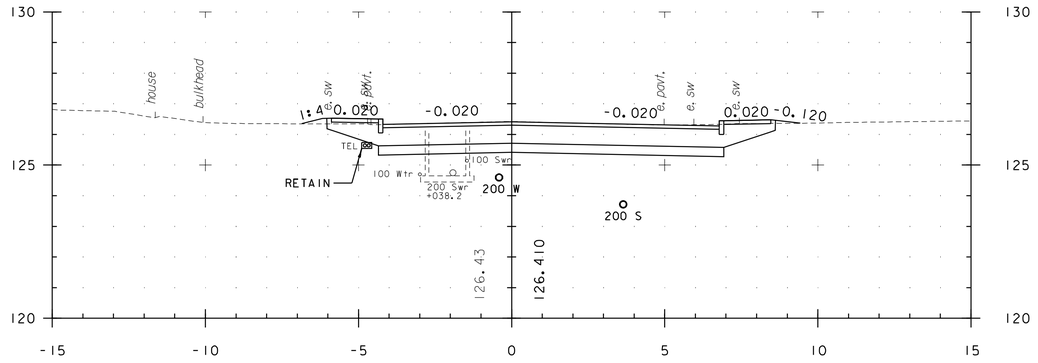
PLOT DATE: 2/23/2017
DRAWN BY: N. LEMAY
CHECKED BY: D. MUNRO
SHEET 597 OF 601

CLD 02-0448 MODEL:125

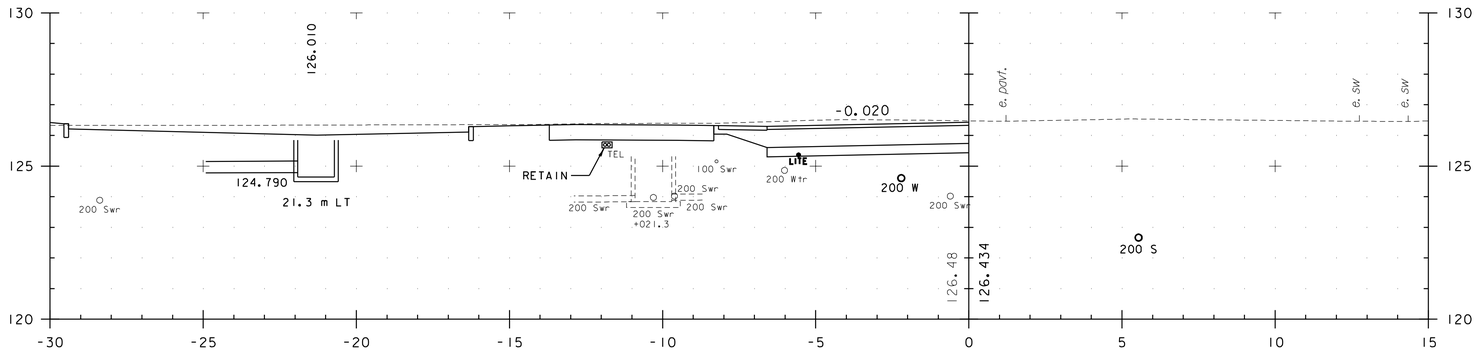
ISSUED FOR CONSTRUCTION



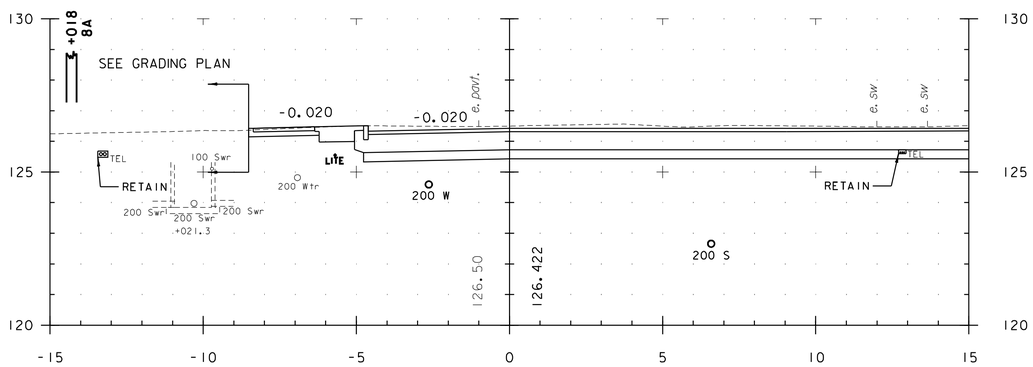
18+026.0



18+040.0



18+022.3



18+020.0

0 2 4 6 8 10
SCALE IN METERS

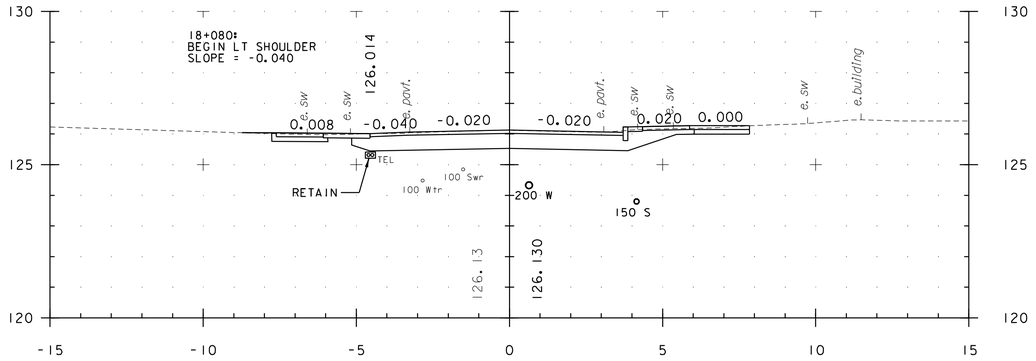
CLD 02-0448 MODEL:126

VT 73 W

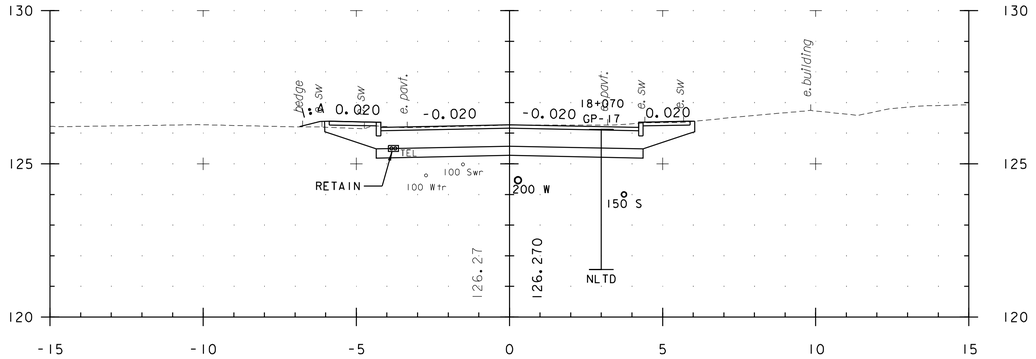
PROJECT NAME:	BRANDON
PROJECT NUMBER:	NH 019-3(496)

FILE NAME: zb008s6-xs.dgn		PLOT DATE:	2/23/2017
PROJECT LEADER:	C. BEAN	DRAWN BY:	N. LEMAY
DESIGNED BY:	D. MUNRO	CHECKED BY:	D. MUNRO
		SHEET	598 OF 601

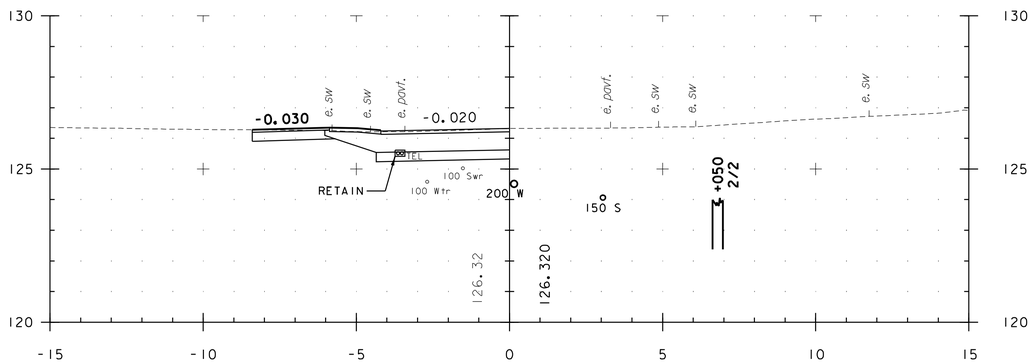
ISSUED FOR CONSTRUCTION



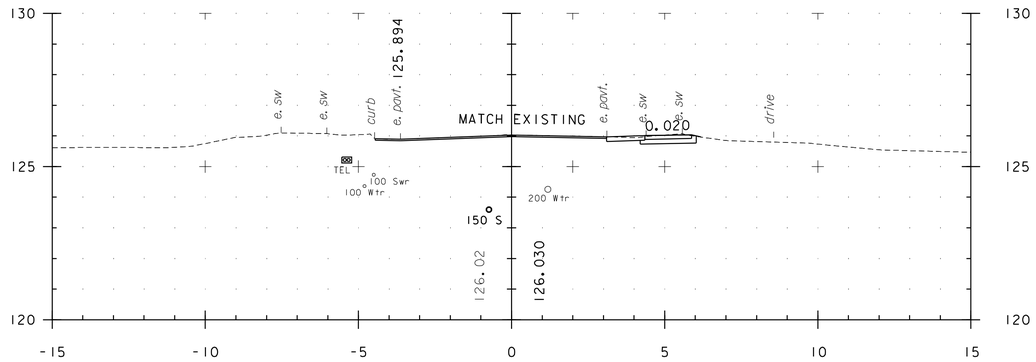
18+080.0



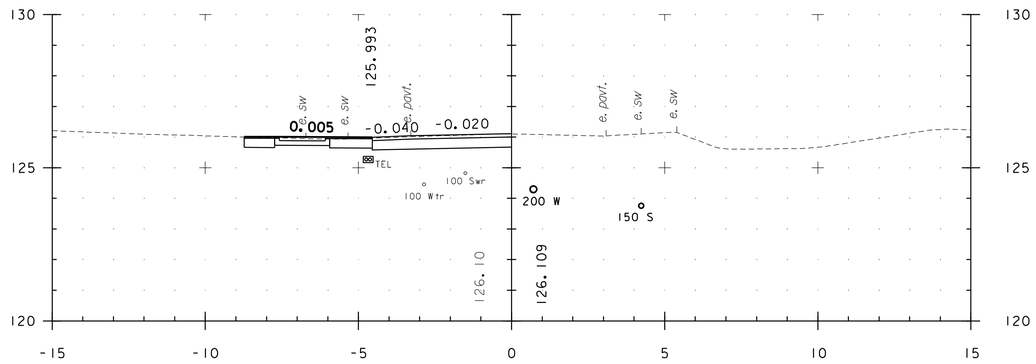
18+060.0



18+052.9
DRIVE LT



18+100.0



18+084.2
DRIVE LT

VT 73 W

PROJECT NAME: BRANDON
PROJECT NUMBER: NH 019-3(496)

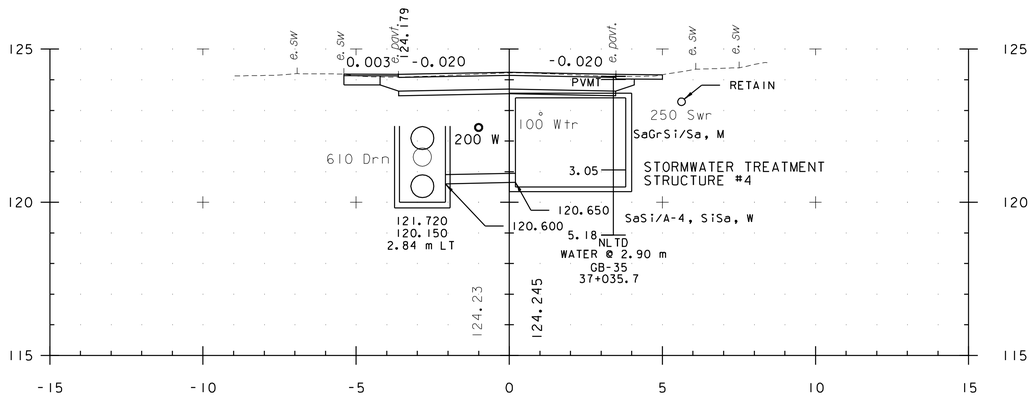
FILE NAME: zb008s6-xs.dgn
PROJECT LEADER: C. BEAN
DESIGNED BY: D. MUNRO

PLOT DATE: 2/23/2017
DRAWN BY: N. LEMAY
CHECKED BY: D. MUNRO
SHEET 599 OF 601

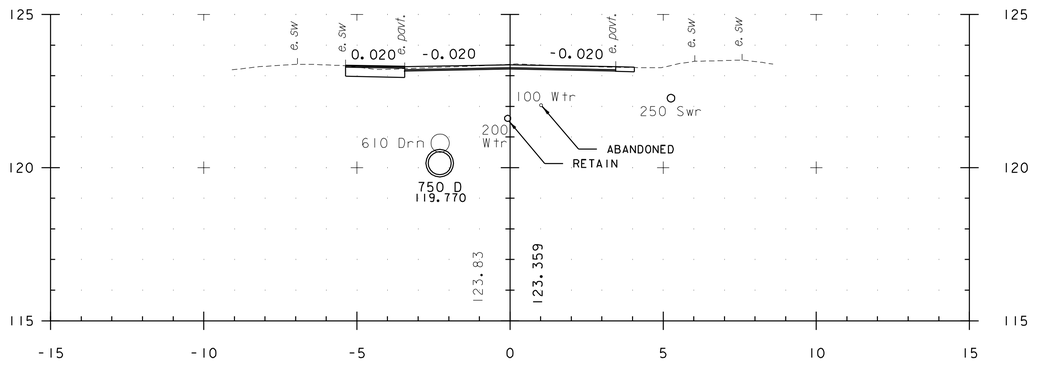
0 2 4 6 8 10
SCALE IN METERS

CLD 02-0448 MODEL: I27

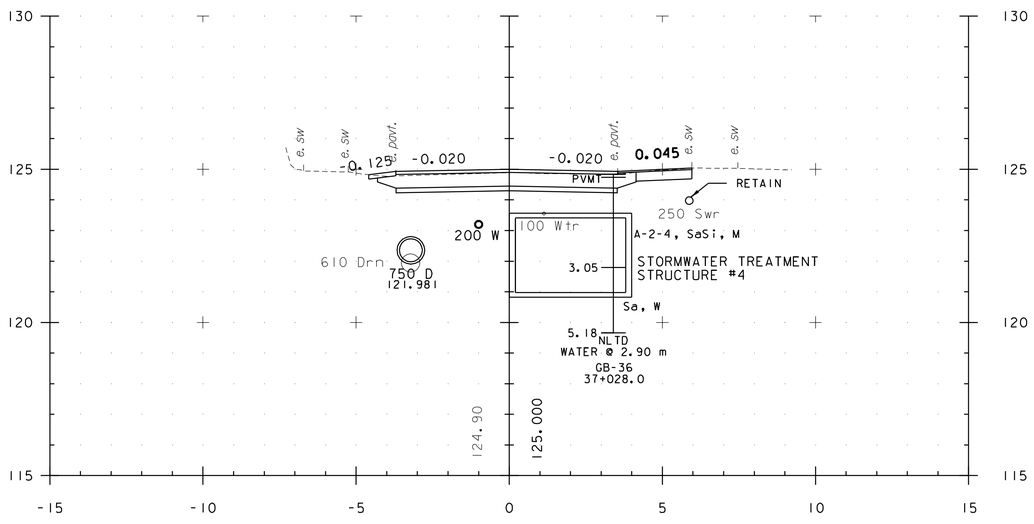
ISSUED FOR CONSTRUCTION



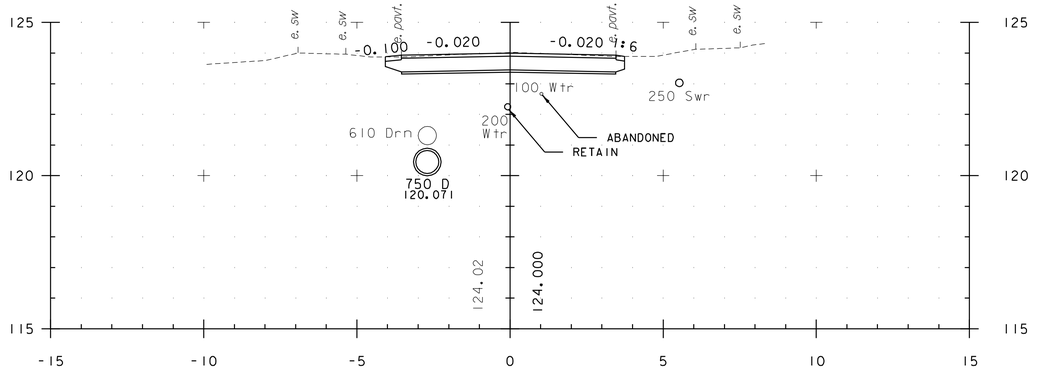
37+036.0
DRIVE LT



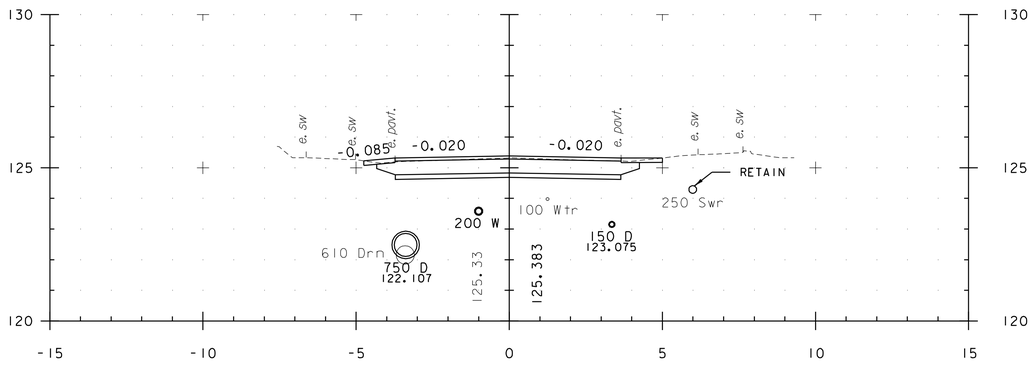
37+052.0
DRIVE LT



37+025.0
DRIVE RT



37+040.0



37+020.0

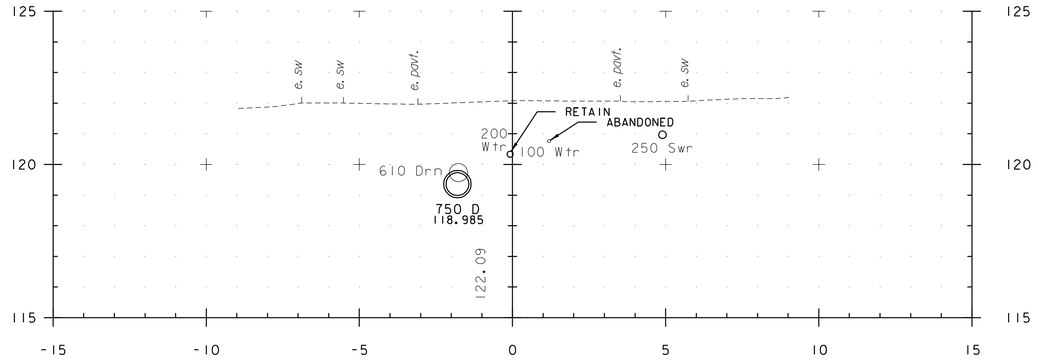
ROSSITER ST

PROJECT NAME:	BRANDON
PROJECT NUMBER:	NH 019-3(496)
FILE NAME: zb008s6-xs.dgn	PLOT DATE: 2/23/2017
PROJECT LEADER: C. BEAN	DRAWN BY: N. LEMAY
DESIGNED BY: D. MUNRO	CHECKED BY: D. MUNRO
	SHEET 600 OF 601

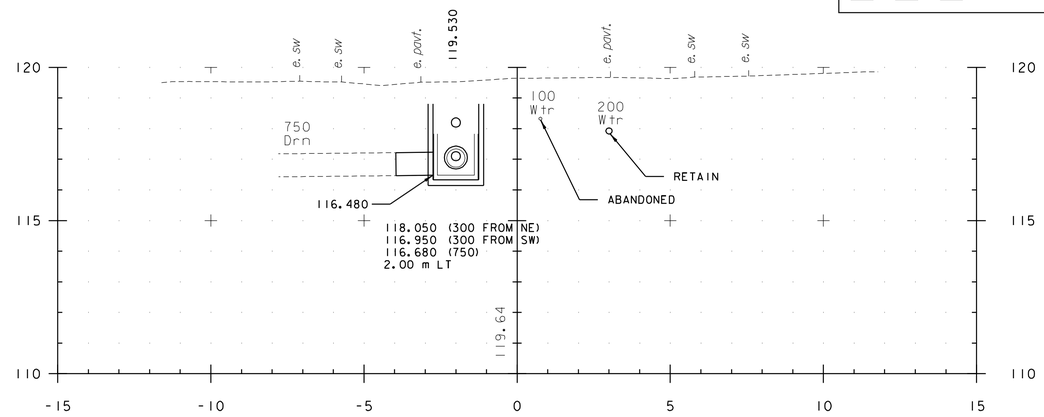
0 2 4 6 8 10
SCALE IN METERS

CLD 02-0448 MODEL: I28

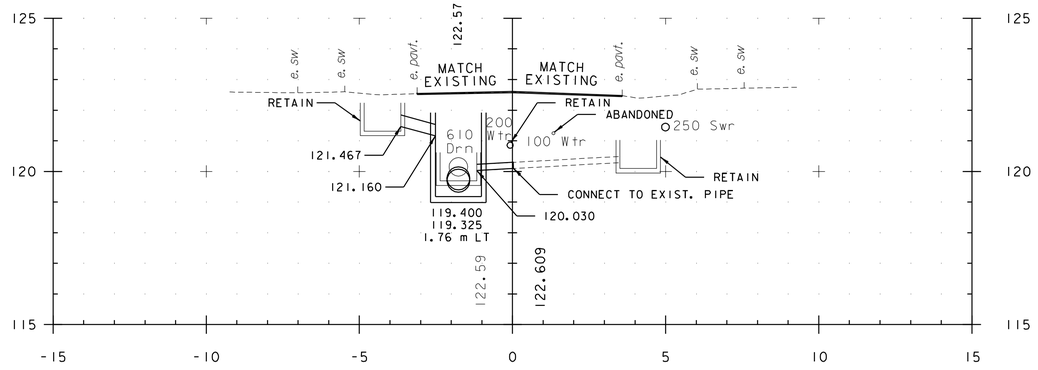
ISSUED FOR CONSTRUCTION



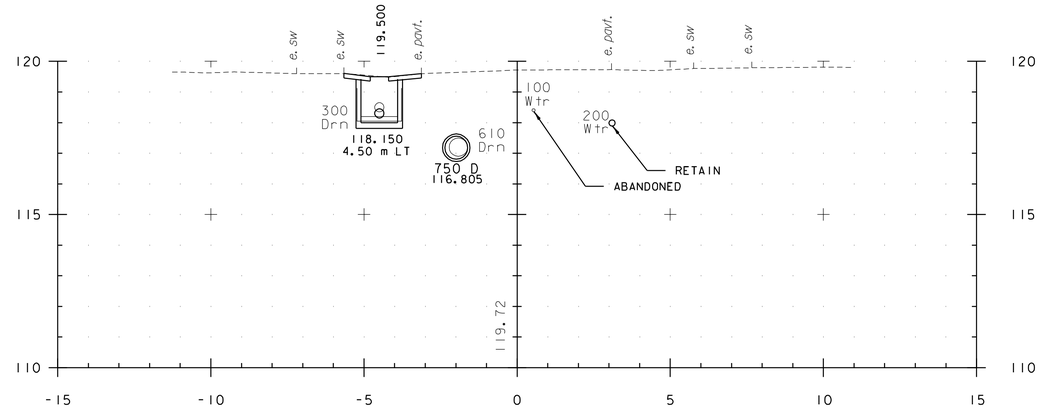
37+080.0



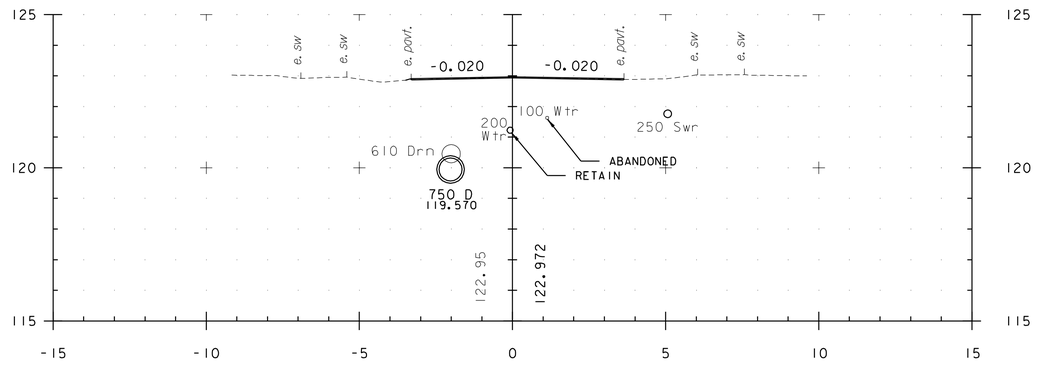
37+160.4



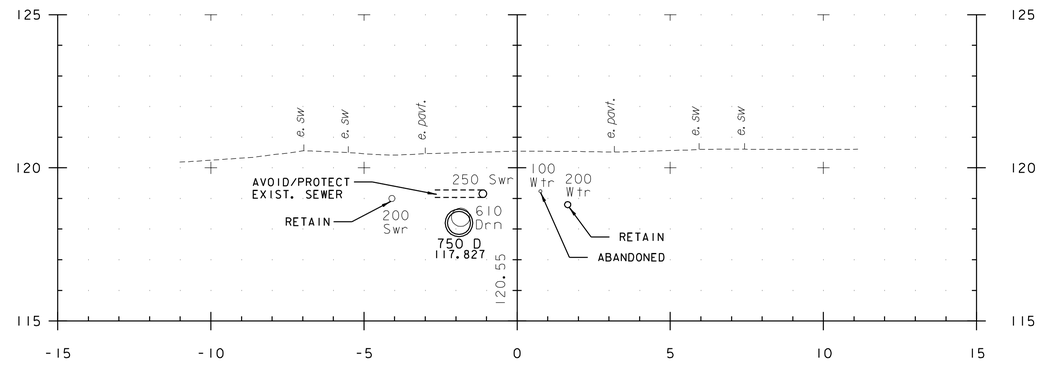
37+067.5



37+155.3



37+060.0



37+120.0

ROSSITER ST

PROJECT NAME:	BRANDON
PROJECT NUMBER:	NH 019-3(496)
FILE NAME: zb008s6-xs.dgn	PLOT DATE: 2/23/2017
PROJECT LEADER: C. BEAN	DRAWN BY: N. LEMAY
DESIGNED BY: D. MUNRO	CHECKED BY: D. MUNRO
	SHEET 601 OF 601

0 2 4 6 8 10
SCALE IN METERS

CLD 02-0448 MODEL:129