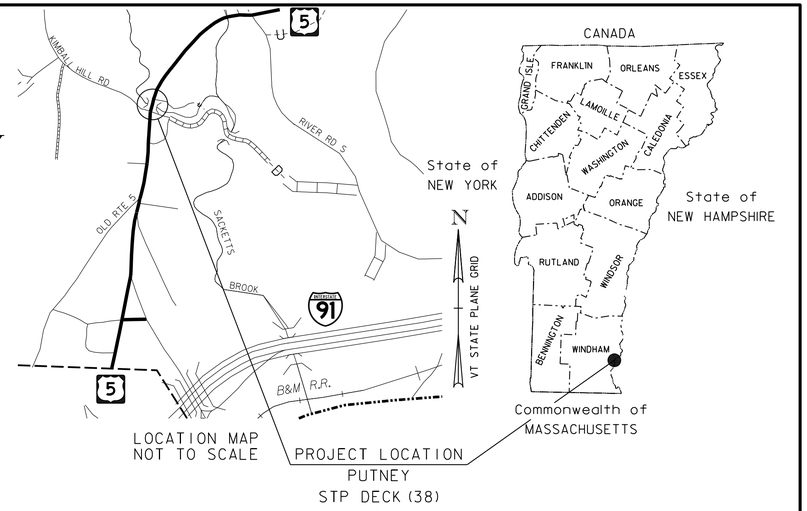
REVIEWER NOTES

1. ALL WORK WILL BE PERFORMED ON THE SUPERSTRUCTURE, TOP OF ABUTMENTS, NE RETAINING WALL, AND ROADWAY EXCEPT FOR WATERPROOFING OF SUBSTRUCTURE CONCRETE, AND INSTALLING DRAINAGE.
2. THERE ARE NO IN-STREAM OR WETLAND IMPACTS.
3. NEW DRAINAGE STRUCTURES OUTLETTING TO THE BROOK WILL BE INCLUDED.
4. THE BRIDGE WILL BE CLOSED FOR A MAXIMUM OF 10 DAYS DURING CONSTRUCTION. DAILY LANE CLOSURES MAY BE ALLOWED AFTER THE BRIDGE CLOSURE PERIOD.
5. THE SIDEWALK WILL BE CLOSED DURING THE BRIDGE CLOSURE AND FOR ONE WEEK AFTER THE BRIDGE CLOSURE.

STATE OF VERMONT
AGENCY OF TRANSPORTATION

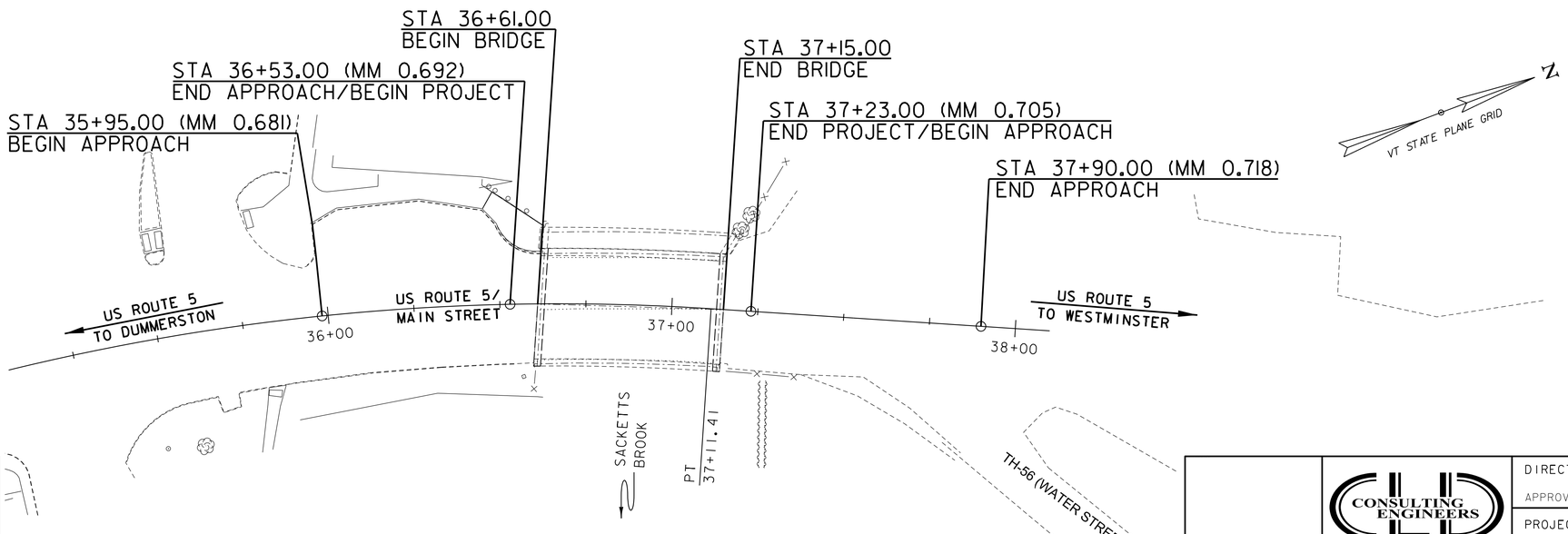


PROPOSED IMPROVEMENT
BRIDGE PROJECT
TOWN OF PUTNEY
COUNTY OF WINDHAM
US ROUTE 5 (MAJOR COLLECTOR) BRIDGE NO. 15

PROJECT LOCATION: LOCATED IN THE TOWN OF PUTNEY, ON US ROUTE 5, APPROXIMATELY 0.698 MILES NORTHERLY OF THE DUMMERSTON/PUTNEY TOWN LINE.

PROJECT DESCRIPTION: WORK TO BE PERFORMED UNDER THIS PROJECT INCLUDES THE REPLACEMENT OF THE EXISTING SUPERSTRUCTURE INCLUDING RELATED APPROACH WORK, SIDEWALK AT NORTHWEST CORNER AND DRAINAGE IMPROVEMENTS.

LENGTH OF STRUCTURE: 54.00 FEET
LENGTH OF ROADWAY: 141.00 FEET
LENGTH OF PROJECT: 195.00 FEET



CONSTRUCTION IS TO BE CARRIED ON IN ACCORDANCE WITH THESE PLANS AND THE STANDARD SPECIFICATIONS FOR CONSTRUCTION DATED 2011, AS 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.

QUALITY ASSURANCE PROGRAM : LEVEL 2

SURVEYED BY : CLD
SURVEYED DATE : 09/21/2015

DATUM
VERTICAL NAVD 88
HORIZONTAL NAD 83

PRELIMINARY PLANS
OCTOBER 28, 2016

DIRECTOR OF PROJECT DELIVERY
APPROVED _____ DATE _____

PROJECT MANAGER : JONATHAN GRIFFIN, P.E.

PROJECT NAME : PUTNEY
PROJECT NUMBER : STP DECK (38)

SHEET 1 OF 16 SHEETS

CONSULTING ENGINEERS
540 Commercial Street
Manchester, NH 03101
(603) 668-8223
www.cldengineers.com

STATE OF VERMONT
AGENCY OF TRANSPORTATION

PRELIMINARY INFORMATION SHEET (BRIDGE)

Version
LRFD

INDEX OF SHEETS

PLAN SHEETS

STANDARDS LIST

B-71	STANDARD FOR RESIDENTIAL AND COMMERCIAL DRIVES	07-08-2005
E-136B	STATE ROUTE MARKER SIGN DETAILS	08-08-1995
E-127	ROUTE MARKINGS AT RURAL INTERSECTIONS	08-08-1995
C-2A	PORTLAND CEMENT CONCRETE SIDEWALK DRIVE ENTRANCES WITH SIDEWALK A	10-14-2005
C-2B	PORTLAND CEMENT CONCRETE SIDEWALK DRIVE ENTRANCES WITH SIDEWALK A	10-14-2005
C-3A	SIDEWALK RAMPS	03-10-2008
C-3B	SIDEWALK RAMPS AND MEDIAN ISLANDS	03-10-2008
C-10	CURBING	02-11-2008
D-16	DRAINAGE DETAILS INCLUDING DROP INLETS, IRON GRATE TYPE B&C, CONC END	06-01-1994
E-193	PAVEMENT MARKING DETAILS	08-18-1995
G-1BM	BOX BEAM GUARD RAIL	06-01-1994
G-1D	STEEL BEAM GUARDRAIL DETAILS (END TERMINAL, ANCHOR, MEDIAN)	02-10-2014
T-1	TRAFFIC CONTROL GENERAL NOTES	08-06-2012
T-10	CONVENTIONAL ROADS CONSTRUCTION APPROACH SIGNING	08-06-2012
T-17	TRAFFIC CONTROL MISCELLANEOUS DETAILS	08-06-2012
T-28	CONSTRUCTION SIGN DETAILS	08-06-2012

STRUCTURES DETAIL SHEETS

SD-501.00	CONCRETE DETAILS AND NOTES	5/7/2010
SD-502.00	CONCRETE DETAILS AND NOTES	5/7/2010
SD-516.10	BRIDGE JOINT ASHPALTIC PLUG	8/29/2011

FINAL HYDRAULIC REPORT

TRAFFIC MAINTENANCE NOTES

1. MAINTAIN TRAFFIC ON AN OFF SITE DETOUR.
2. TRAFFIC SIGNALS ARE NOT NECESSARY.
3. SIDEWALKS ARE NOT NECESSARY

DESIGN VALUES

1.	DESIGN LIVE LOAD		HL-93
2.	FUTURE PAVEMENT	d_p:	0.0 INCH
3.	DESIGN SPAN	L:	52.00 FT
4.	MIN. MID-SPAN POS. CAMBER @ RELEASE (PRESTRESSED UNITS)	Δ:	---
5.	PRESTRESSING STRAND (0.60 INCH DIAMETER - LOW RELAX)	f_y:	270 KSI
6.	PRESTRESSED CONCRETE STRENGTH	f'_c:	8.0 KSI
7.	PRESTRESSED CONCRETE RELEASE STRENGTH	f'_{ci}:	5.5 KSI
8.	CONCRETE, HIGH PERFORMANCE CLASS AA	f'_c:	4.0 KSI
9.	CONCRETE, HIGH PERFORMANCE CLASS A	f'_c:	4.0 KSI
10.	CONCRETE, HIGH PERFORMANCE CLASS B	f'_c:	3.5 KSI
11.	CONCRETE, CLASS C	f'_c:	3.0 KSI
12.	REINFORCING STEEL	f_y:	60 KSI
13.	STRUCTURAL STEEL AASHTO M270	f_y:	---
14.	NOMINAL BEARING RESISTANCE OF SOIL	q_n:	4.0 KSF
15.	SOIL BEARING RESISTANCE FACTOR (REFER TO AASHTO LRFD)	ϕ:	---
16.	NOMINAL BEARING RESISTANCE OF ROCK	q_n:	10.0 KSF
17.	ROCK BEARING RESISTANCE FACTOR (REFER TO AASHTO LRFD)	ϕ:	---
18.	PILE RESISTANCE FACTOR	ϕ:	---
19.	LATERAL PILE DEFLECTION	Δ:	---
20.	BASIC WIND SPEED	V_{3s}:	---
21.	MINIMUM GROUND SNOW LOAD	p_g:	---
22.	SEISMIC DATA — PGA: 0	S_s:	---
		S_1:	---
23.			---
24.			---
25.			---
26.			---

LRFR LOAD RATING FACTORS

LOADING LEVELS	TRUCK						
	H-20	HL-93	3S2	6 AXLE	3A STR.	4A STR.	5A SEM
TONNAGE	**20**	**36**	**36**	**66**	**30**	**34.5**	**38**
INVENTORY							
POSTING							
OPERATING							
COMMENTS:							

AS BUILT "REBAR" DETAIL

LEVEL I	LEVEL II	LEVEL III
TYPE:	TYPE:	TYPE:
GRADE:	GRADE:	GRADE:

TRAFFIC DATA

YEAR	ADT	DHV	% D	% T	ADTT
2016	3000	440	56	3.6	180
2036	3100	440	56	5.5	290

20 year ESAL for flexible pavement from 2016 to 2036 : 0

40 year ESAL for flexible pavement from 2016 to 2056 : 0

Design Speed : 30 mph

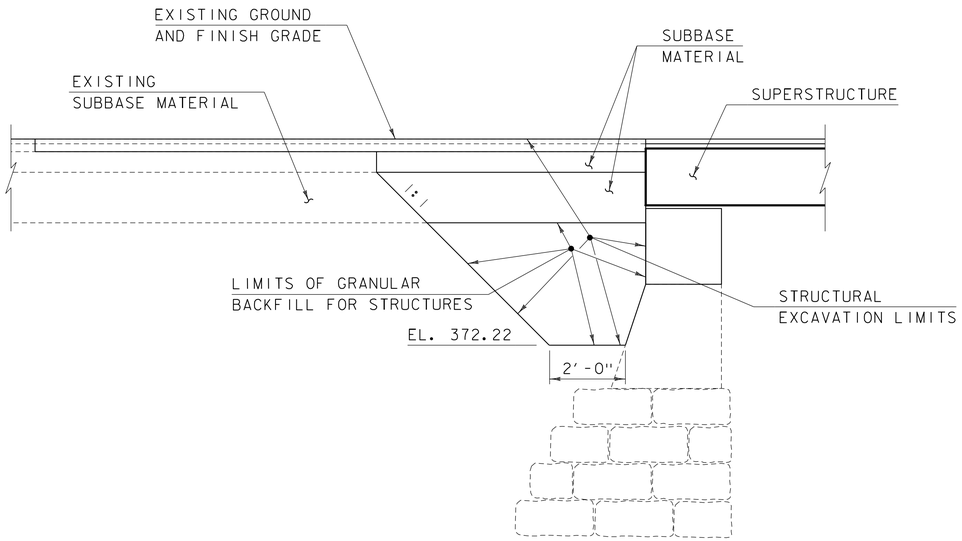
PROJECT NAME: PUTNEY

PROJECT NUMBER: STP DECK(38)

FILE NAME: z15b105pi-15.dgn
PROJECT LEADER: J. BYATT
DESIGNED BY: S. FORTIER
PRELIMINARY INFORMATION SHEET

PLOT DATE: 10/28/2016
DRAWN BY: M.G. SMITH
CHECKED BY: L. GREER
SHEET 2 OF 16

MODEL: PI
CLD 16-0272



TYPICAL ABUTMENT EARTHWORK SECTION

NOT TO SCALE

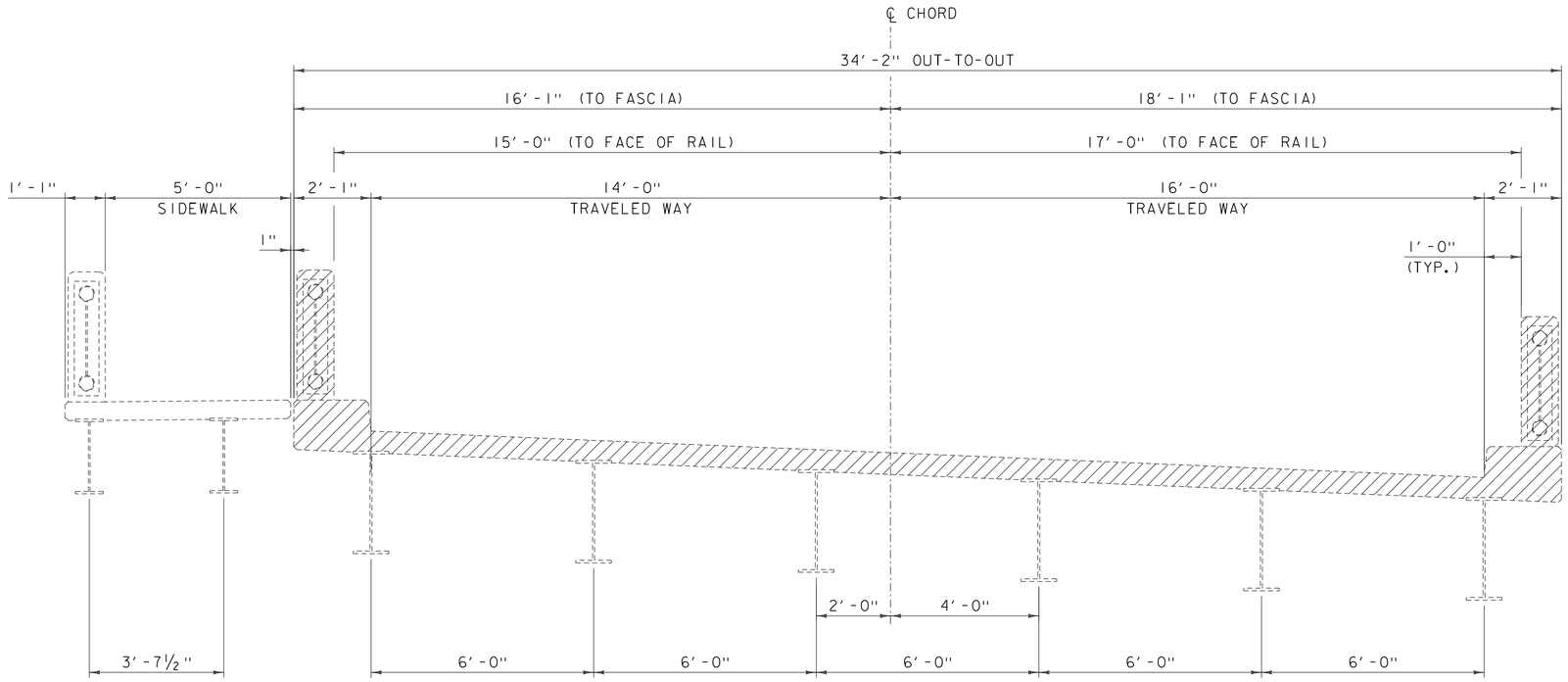
NOTE: ACTUAL EXCAVATION LIMITS SHALL BE DETERMINED BY THE CONTRACTOR. HOWEVER, PAYMENT UNDER CONTRACT ITEM 204.25 AND 204.30 WILL ONLY BE MADE TO THE LIMITS SHOWN.

CLD 16-0272 MODEL: Sheet01

PROJECT NAME: PUTNEY
PROJECT NUMBER: STP DECK(38)

FILE NAME: z15b105sub-15.dgn
PROJECT LEADER: J. BYATT
DESIGNED BY: J. FRENCH
TYPICALS EARTHWORKS SECTIONS

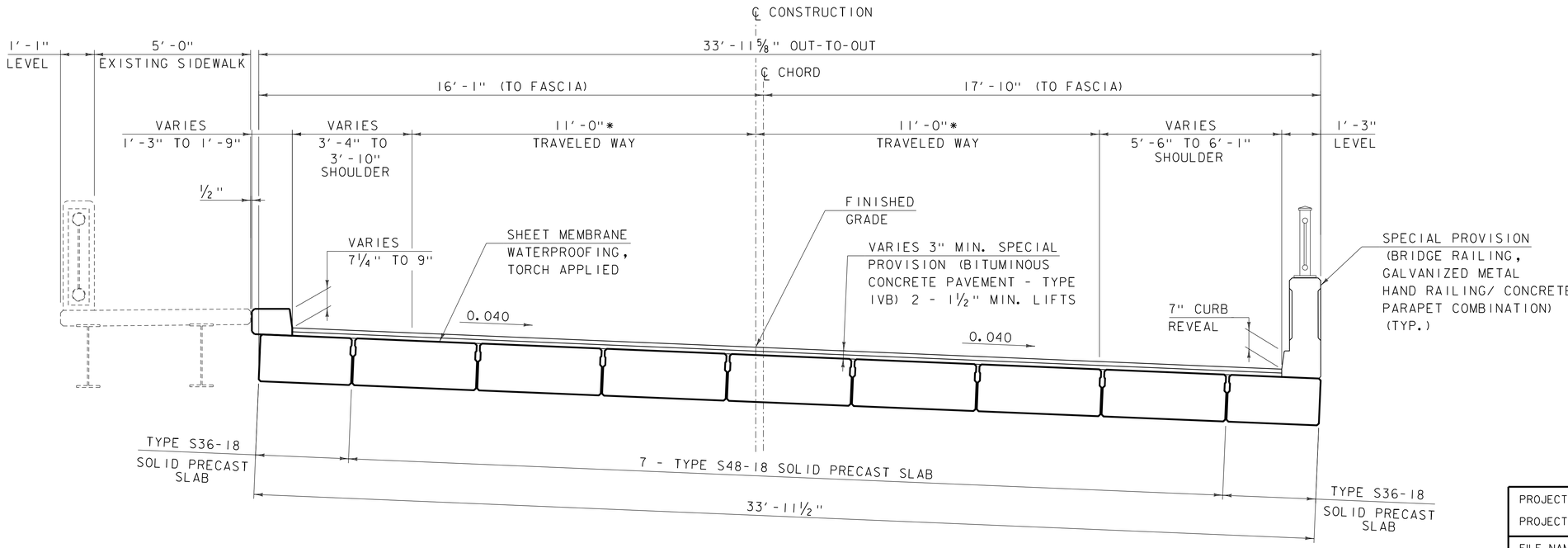
PLOT DATE: 10/28/2016
DRAWN BY: M. SMITH
CHECKED BY: J. BYATT
SHEET 3 OF 16



EXISTING TYPICAL BRIDGE SECTION

SCALE: ½" = 1′-0"

PARTIAL REMOVAL OF STRUCTURE



TYPICAL BRIDGE SECTION

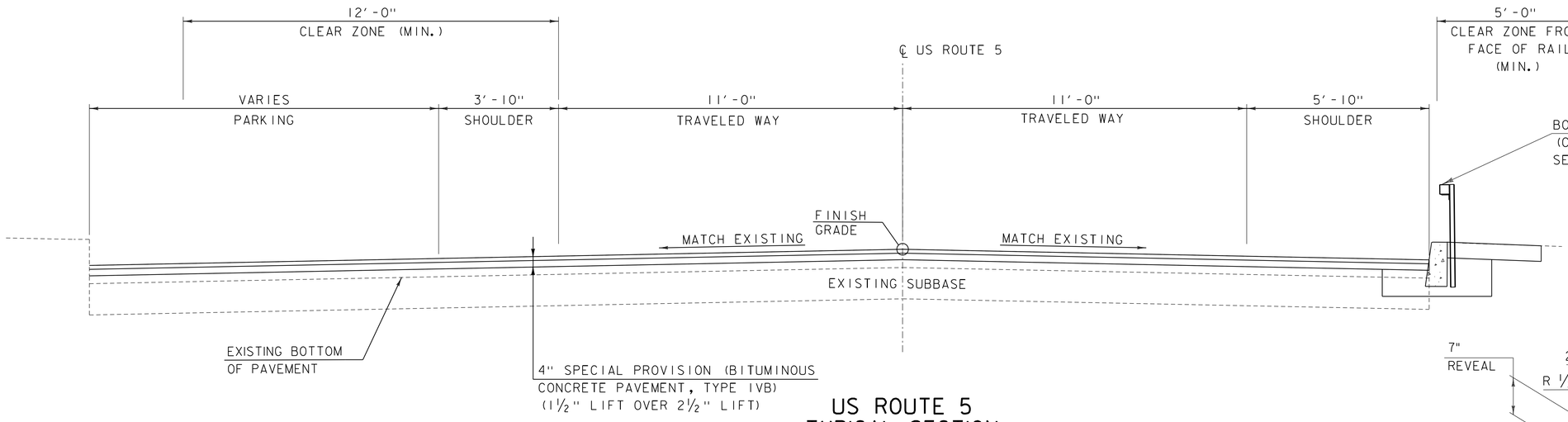
SCALE: ½" = 1′-0"

* RADIAL DIMENSION

CONSULTING ENGINEERS

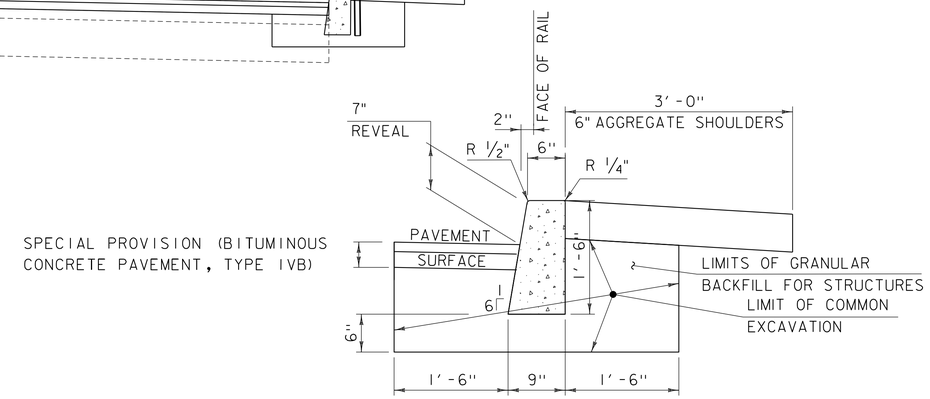
PROJECT NAME:	PUTNEY
PROJECT NUMBER:	STP DECK(38)
FILE NAME: z15b105sup-15.dgn	PLOT DATE: 10/28/2016
PROJECT LEADER: J. BYATT	DRAWN BY: M. SMITH
DESIGNED BY: J. FRENCH	CHECKED BY: J. BYATT
TYPICAL BRIDGE SECTIONS SHEET	SHEET 4 OF 16

MATERIAL TOLERANCES	
SURFACE	
- PAVEMENT (TOTAL THICKNESS)	+/- 1/4"
- AGGREGATE SURFACE COURSE	+/- 1/2"
SUBBASE	+/- 1"

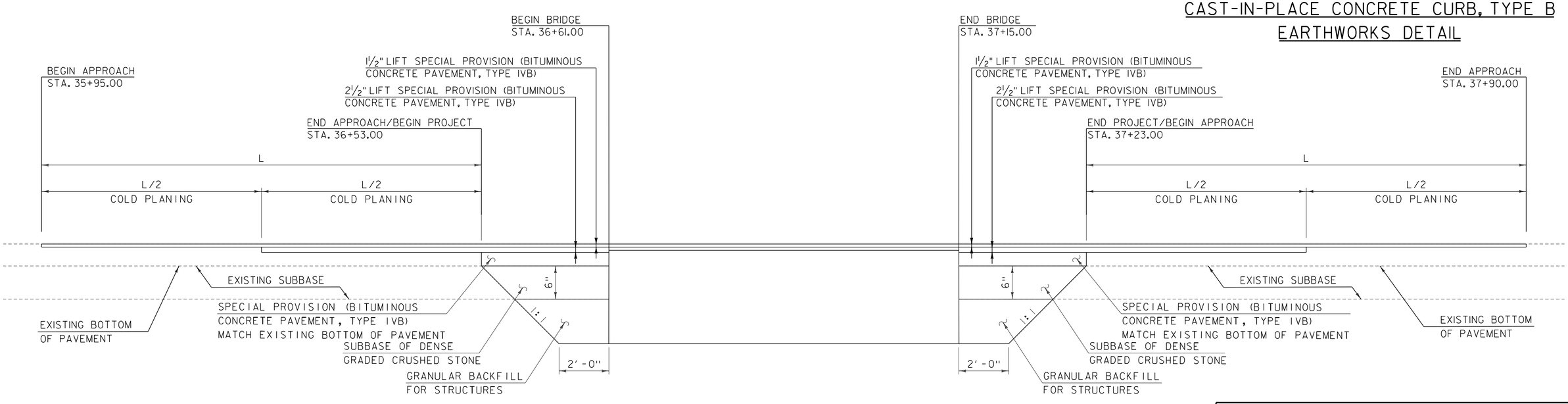


US ROUTE 5
TYPICAL SECTION

SCALE: 1/2" = 1'-0"



CAST-IN-PLACE CONCRETE CURB, TYPE B
EARTHWORKS DETAIL

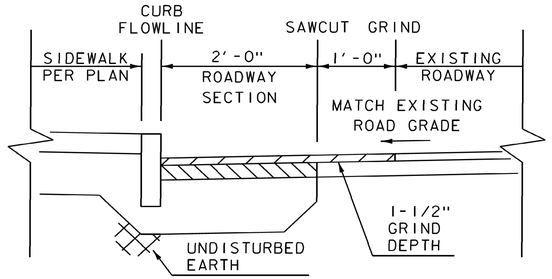


MATERIAL TRANSITION DIAGRAM

NOT TO SCALE

PROJECT NAME:	PUTNEY
PROJECT NUMBER:	STP DECK(38)
FILE NAME: z15b105frm-15.dgn	PLOT DATE: 10/28/2016
PROJECT LEADER: J. BYATT	DRAWN BY: M. SMITH
DESIGNED BY: S. FORTIER	CHECKED BY: L. GREER
TYPICAL ROADWAY SECTIONS SHEET	SHEET 5 OF 16

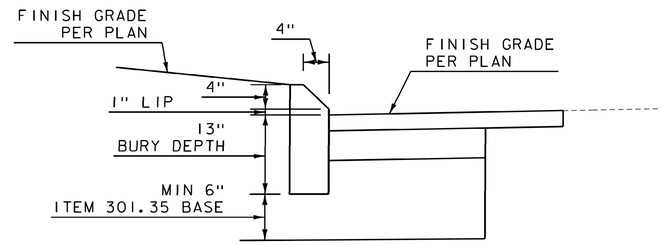
CLD CONSULTING ENGINEERS



TYPICAL SAWCUT AND GRINDING DETAIL

NOT TO SCALE

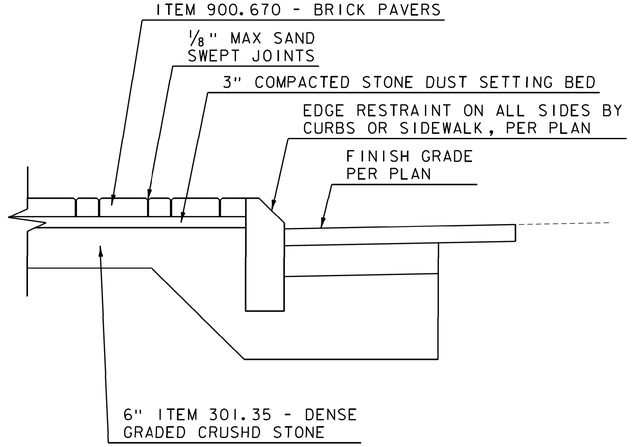
1. SAWCUTTING AND GRINDING SHALL BE INCIDENTAL TO ITEM 900.680 - HAND PLACED BITUMINOUS CONCRETE PAVEMENT.
2. EXISTING PAVEMENT SHALL BE SAWCUT STRAIGHT AND PLUMB.
3. GRINDING SHALL TAKE PALCE JUST PRIOR TO PALCEMENT OF ASPHALT.
4. COAT SAWCUT AND GROOVED SURFACE FOLLOWING GRINDING WITH EMULSIFIED ASPHALT PRIOR TO PLACING BITUMINOUS MATERIAL PER SPECIFICATION, INCIDENTAL TO ITEM 900.680 - HAND PLACED BITUMINOUS CONCRETE PAVEMENT.



ITEM 900.640 – VERTICAL GRANITE CURB, MOUNTABLE (4" BEVEL)

NOT TO SCALE

1. TOTAL FULL REVEAL SHALL EQUAL 5": 4" BEVEL PLUS 1" VERTICAL LIP AT FLOW LINE. VERTICAL GRANITE CURB WITHOUT BEVEL SHALL HAVE A FULL REVEAL OF 7".



ITEM 900.670 – BRICK PAVERS

NOT TO SCALE

1. ITEM 900.670 - BRICK PAVERS SHALL BE FULL COMPENSATION FOR ALL BRICK PAVERS, CUTTING TO SIZE, AND SAND SWEPT JOINTS INCLUDING ALL MATERIALS AND LABOR. SAND SETTING BED AND DENSE GRADED CRUSHED STONE BASE SHALL BE PAID FOR SEPERATELY.
2. BRICKS SHALL CONSIST OF TWO COMPLEMENTARY COLORS, 70% RED-COLOR AND 30% IRON-COLOR. CONTRACTOR SHALL SUBMIT SHOP DRAWINGS OF THE BRICK COLORS FOR APPROVAL. PAVERS SHALL BE PLACED IN A RANDOM PATTERN.
3. BRICK PAVER FIELDS SHALL BE BOUND FLUSH ON ALL SIDES BY CONCRETE SIDEWALK OR GRANITE CURB, TO BE PAID FOR SEPARATELY.

SIDEWALK DETAILS FROM 85% DESIGN PLANS FOR TAP TA 13(2) BY RSG

PROJECT NAME:	PUTNEY
PROJECT NUMBER:	STP DECK(38)
FILE NAME: z15b105frm-15.dgn	PLOT DATE: 10/28/2016
PROJECT LEADER:	DRAWN BY:
DESIGNED BY:	CHECKED BY:
SIDEWALK DETAILS SHEET	SHEET 6 OF 16

CLD 16-0272 MODEL: Sheet02

GENERAL INFORMATION

SYMBOLOGY LEGEND NOTE

THE SYMBOLOGY ON THIS SHEET IS INTENDED TO COVER STANDARD CONVENTIONAL SYMBOLOGY. THE SYMBOLOGY IS USED FOR EXISTING & PROPOSED FEATURES WITH HEAVIER LINEWEIGHT, IN COMBINATION WITH PROJECT ANNOTATION, AS NOTED ON PROJECT PLAN SHEETS. THIS LEGEND SHEET COVERS THE BASICS. SYMBOLOGY ON PLANS MAY VARY, PLAN ANNOTATIONS AND NOTES SHOULD BE USED TO CLARIFY AS NEEDED.

R.O.W. ABBREVIATIONS (CODES) & SYMBOLS

POINT	CODE	DESCRIPTION
	CH	CHANNEL EASEMENT
	CONST	CONSTRUCTION EASEMENT
	CUL	CULVERT EASEMENT
	D&C	DISCONNECT & CONNECT
	DIT	DITCH EASEMENT
	DR	DRAINAGE EASEMENT
	DRIVE	DRIVEWAY EASEMENT
	EC	EROSION CONTROL
	HWY	HIGHWAY EASEMENT
	I&M	INSTALL & MAINTAIN EASEMENT
	LAND	LANDSCAPE EASEMENT
	R&RES	REMOVE & RESET
	R&REP	REMOVE & REPLACE
	SR	SLOPE RIGHT
	UE	UTILITY EASEMENT
	(P)	PERMANENT EASEMENT
	(T)	TEMPORARY EASEMENT
■	BNDNS	BOUND SET
⧈	BNDNS	BOUND TO BE SET
●	IPNS	IRON PIN SET
◎	IPNS	IRON PIN TO BE SET
⊠	CALC	EXISTING ROW POINT
○	PROW	PROPOSED ROW POINT
[LENGTH]		LENGTH CARRIED ON NEXT SHEET

COMMON TOPOGRAPHIC POINT SYMBOLS

POINT	CODE	DESCRIPTION
	APL	BOUND APPARENT LOCATION
	BM	BENCHMARK
	BND	BOUND
	CB	CATCH BASIN
	COMB	COMBINATION POLE
	DITHR	DROP INLET THROATED DNC
	EL	ELECTRIC POWER POLE
	FPOLE	FLAGPOLE
	GASFIL	GAS FILLER
	GP	GUIDE POST
	GSO	GAS SHUT OFF
	GUY	GUY POLE
	GUYW	GUY WIRE
	GV	GATE VALUE
	H	TREE HARDWOOD
	HCTRL	CONTROL HORIZONTAL
	HVCTRL	CONTROL HORIZ. & VERTICAL
	HYD	HYDRANT
	IP	IRON PIN
	IPIPE	IRON PIPE
	LI	LIGHT - STREET OR YARD
	MB	MAILBOX
	MH	MANHOLE (MH)
	MM	MILE MARKER
	PM	PARKING METER
	PMK	PROJECT MARKER
	POST	POST STONE/WOOD
	RRSIG	RAILROAD SIGNAL
	RRSL	RAILROAD SWITCH LEVER
	S	TREE SOFTWOOD
	SAT	SATELLITE DISH
	SHRUB	SHRUB
	SIGN	SIGN
	STUMP	STUMP
	TEL	TELEPHONE POLE
	TIE	TIE
	TSIGN	SIGN W/DOUBLE POST
	VCTRL	CONTROL VERTICAL
	WELL	WELL
	WSO	WATER SHUT OFF

THESE ARE COMMON VAOT SURVEY POINT SYMBOLS FOR EXISTING FEATURES, ALSO USED FOR PROPOSED FEATURES WITH HEAVIER LINEWEIGHT, IN COMBINATION WITH PROPOSED ANNOTATION.

PROPOSED GEOMETRY CODES

CODE	DESCRIPTION
PC	POINT OF CURVATURE
PI	POINT OF INTERSECTION
CC	CENTER OF CURVE
PT	POINT OF TANGENCY
PCC	POINT OF COMPOUND CURVE
PRC	POINT OF REVERSE CURVE
POB	POINT OF BEGINNING
POE	POINT OF ENDING
STA	STATION PREFIX
AH	AHEAD STATION SUFFIX
BK	BACK STATION SUFFIX
D	CURVE DEGREE OF (100FT)
R	CURVE RADIUS OF
T	CURVE TANGENT LENGTH
L	CURVE LENGTH OF
E	CURVE EXTERNAL DISTANCE

UTILITY SYMBOLOGY

UNDERGROUND UTILITIES

- UGU — UTILITY (GENERIC-UNKNOWN)
- UT — TELEPHONE
- UE — ELECTRIC
- UC — CABLE (TV)
- UEC — ELECTRIC+CABLE
- UET — ELECTRIC+TELEPHONE
- UCT — CABLE+TELEPHONE
- UECT — ELECTRIC+CABLE+TELEP.
- G — GAS LINE
- W — WATER LINE
- S — SANITARY SEWER (SEPTIC)

ABOVE GROUND UTILITIES (AERIAL)

- AGU — UTILITY (GENERIC-UNKNOWN)
- T — TELEPHONE
- E — ELECTRIC
- C — CABLE (TV)
- EC — ELECTRIC+CABLE
- ET — ELECTRIC+TELEPHONE
- AER E&T — ELECTRIC+TELEPHONE
- CT — CABLE+TELEPHONE
- ECT — ELECTRIC+CABLE+TELEP.
- UTILITY POLE GUY WIRE

PROJECT CONSTRUCTION SYMBOLOGY

PROJECT DESIGN & LAYOUT SYMBOLOGY

- CZ — CLEAR ZONE
- PLAN LAYOUT MATCHLINE

PROJECT CONSTRUCTION FEATURES

- TOP OF CUT SLOPE
- TOE OF FILL SLOPE
- STONE FILL
- BOTTOM OF DITCH ℄
- CULVERT PROPOSED
- STRUCTURE SUBSURFACE
- PDF — PDF — PROJECT DEMARCATION FENCE
- BF — BF — BARRIER FENCE
- TREE PROTECTION ZONE (TPZ)
- STRIPING LINE REMOVAL
- SHEET PILES

CONVENTIONAL BOUNDARY SYMBOLOGY

BOUNDARY LINES

- TOWN LINE — TOWN BOUNDARY LINE
- COUNTY LINE — COUNTY BOUNDARY LINE
- STATE LINE — STATE BOUNDARY LINE
- PROPOSED STATE R.O.W. (LIMITED ACCESS)
- PROPOSED STATE R.O.W.
- STATE ROW (LIMITED ACCESS)
- STATE ROW
- TOWN ROW
- PERMANENT EASEMENT LINE (P)
- TEMPORARY EASEMENT LINE (T)
- SURVEY LINE
- P/L — PROPERTY LINE (P/L)
- SR SR SR — SLOPE RIGHTS
- 6f — 6f — 6F PROPERTY BOUNDARY
- 4f — 4f — 4F PROPERTY BOUNDARY
- HAZ — HAZ — HAZARDOUS WASTE

EPSC LAYOUT PLAN SYMBOLOGY

EPSC MEASURES

- FILTER CURTAIN
- SILT FENCE
- SILT FENCE WOVEN WIRE
- CHECK DAM
- DISTURBED AREAS REQUIRING RE-VEGETATION
- EROSION MATTING

SEE EPSC DETAIL SHEETS FOR ADDITIONAL SYMBOLOGY

ENVIRONMENTAL RESOURCES

- WETLAND BOUNDARY
- RIPARIAN BUFFER ZONE
- WETLAND BUFFER ZONE
- SOIL TYPE BOUNDARY
- T&E — THREATENED & ENDANGERED SPECIES
- HAZ — HAZ — HAZARDOUS WASTE AREA
- AG — AGRICULTURAL LAND
- HABITAT — FISH & WILDLIFE HABITAT
- FLOOD PLAIN — FLOOD PLAIN
- OHW — ORDINARY HIGH WATER (OHW)
- STORM WATER
- USDA FOREST SERVICE LANDS
- WILDLIFE HABITAT SUIT/CONN

ARCHEOLOGICAL & HISTORIC

- ARCH — ARCHEOLOGICAL BOUNDARY
- HISTORIC DIST — HISTORIC DISTRICT BOUNDARY
- HISTORIC — HISTORIC AREA
- (H) — HISTORIC STRUCTURE

CONVENTIONAL TOPOGRAPHIC SYMBOLOGY

EXISTING FEATURES

- ROAD EDGE PAVEMENT
- ROAD EDGE GRAVEL
- DRIVEWAY EDGE
- DITCH
- FOUNDATION
- FENCE (EXISTING)
- FENCE WOOD POST
- FENCE STEEL POST
- GARDEN
- ROAD GUARDRAIL
- RAILROAD TRACKS
- CULVERT (EXISTING)
- STONE WALL
- WALL
- WOOD LINE
- BRUSH LINE
- HEDGE
- BODY OF WATER EDGE
- LEDGE EXPOSED

CLD 16-0272 MODEL: Sheet04

CONSULTING ENGINEERS

PROJECT NAME: PUTNEY
PROJECT NUMBER: STP DECK(38)

FILE NAME: z15b105frm-15.dgn
PROJECT LEADER: J. BYATT
DESIGNED BY: S. FORTIER
CONVENTIONAL SYMBOLOGY LEGEND SHEET

PLOT DATE: 10/28/2016
DRAWN BY: M.G. SMITH
CHECKED BY: L. GREER
SHEET 7 OF 16

GPS CONTROL POINTS

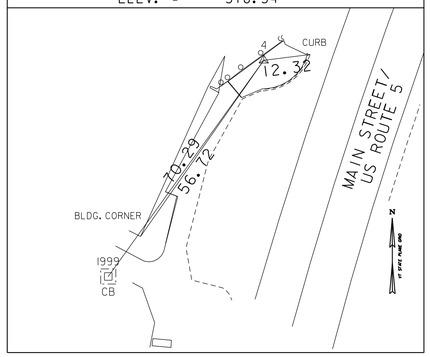
RUS
NORTH = 152472.45
EAST = 1631008.49
ELEV. = 125.94

GENERAL LOCATION, DUMMERSTON TOWN GARAGE, WEST ROAD, EAST DUMMERSTON, VT. 05346., OWNERSHIP, TRANSPORTATION DEPARMENT, DEPARTMENT OF TRANSPORTATION, 870 US ROUTE 5, DUMMERSTON, VT 05301. TO REACH FROM INTERSECTION OF US ROUTE 5 AND WEST ROAD IN EAST DUMMERSTON, PROCEED WEST ON WEST ROAD THROUGH THE INTERSECTION OF MIDDLE ROAD AND BUNKER ROAD. AT 2.0 MILES THE DUMMERSTON TOWN GARAGE IS LOCATED ON LEFT. A GNSS MONUMENT, DESIGNATION "DUMMERSTON CORS ARP", ID "VTD2", IS LOCATED ON THE GARAGE ROOF ATTACHED TO THE TOP FLANGE OF A STEEL 12" X 26' "W" BEAM WHICH IS PART OF THE ROOF STRUCTURE FOR A TWO STORY STEEL FRAMED, WOOD-SIDED BUILDING WITH A 5' CONCRETE FOUNDATION. THE MAST IS A HALF-INCH DIAMETER GALVANIZED PIPE THAT IS 108 INCHES IN LENGTH. THE MAST IS FITTED WITH A 5½" X 5½" X 1" BASE PLATE THAT IS WELDED TO THE BASE OF THE MAST. THE BASE PLATE IS DRILLED AND TAPPED WITH 4⅜" HOLES AND SECURED TO THE FLANGE WITH STAINLESS STEEL BOLTS. THE MAST PROJECTS THROUGH THE ROOF STRUCTURE AND HAS BEEN WEATHER PROOFED.

TRAVERSE TIES

HVCTRL_#4

NORTH = 173284.23
EAST = 1634607.94
ELEV. = 378.54



HVCTRL_#3

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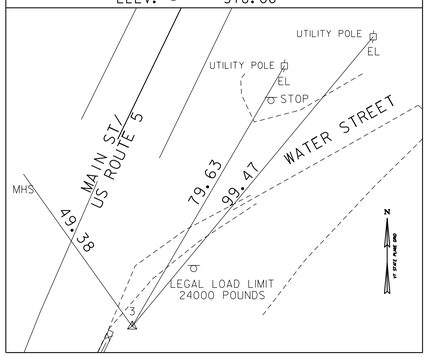
EAST = 1634685.91
ELEV. = 378.06



NORTH = / EAST = / ELEV. =

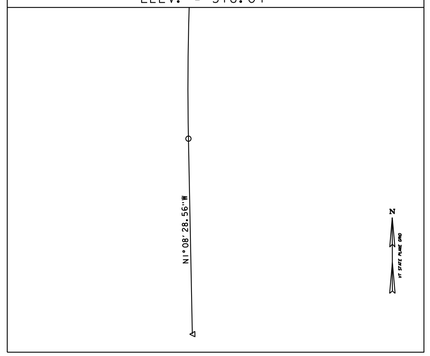
NORTH = / EAST = / ELEV. =

NORTH = / EAST = / ELEV. =

ALIGNMENT TIES

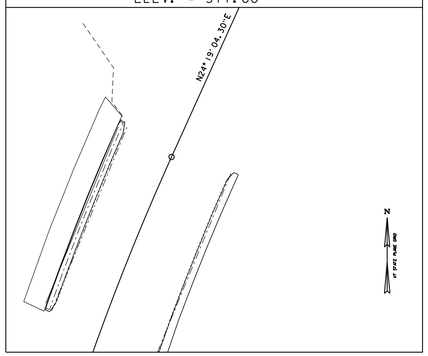
PT 34+11.61

NORTH = 173035.14
EAST = 1634592.86
ELEV. = 378.04



PC 37+11.41

NORTH = 173326.42
EAST = 1634652.59
ELEV. = 377.60



NORTH = / EAST = / ELEV. =

NORTH = / EAST = / ELEV. =

NORTH = / EAST = / ELEV. =

DATUM
VERTICAL NAVD 88
HORIZONTAL NAD 83
ADJUSTMENT COMPASS

PROJECT NAME: PUTNEY
PROJECT NUMBER: STP DECK(38)

FILE NAME: z15b105tie-15
PROJECT LEADER: J. BYATT
DESIGNED BY: S. FORTIER
SURVEY TIE SHEET

PLOT DATE: 10/28/2016
DRAWN BY: M.G. SMITH
CHECKED BY: L. GREER
SHEET 8 OF 16

CLD 16-0272

PROPOSED DRAINAGE

① STA 35+99.5 RT TO STA 36+62.1 RT
NEW 18" X 60' PIPE OPTION
NEW 4' DIA. PRCCB
W/CI GRATE TYPE D AT 35+99.5 RT
INV. AT OUTLET = 369.22'
(CORE THROUGH EXIST. ABUT. (INCIDENTAL))

② STA 37+18.0 RT TO STA 37+44.0 RT
NEW 12" X 23' RCP CLASS III
NEW 4' DIA. PRCCB
W/ CIGRATE TYPE D AT 37+18.0 RT

③ STA 37+29.0 RT TO STA 37+44.0 RT
NEW 12" X 20' PIPE OPTION
NEW 4' DIA. PRCCB
W/ CIGRATE TYPE D AT 37+44.0 RT
END SECTION W/STONE FILL, TYPE I
PAD (3'X6') AT OUTLET

NOTE:
PIPE OPTIONS FOR ALL SIZES INCLUDE:
CAAP .060 (2-2/3 X 1/2)
PCCSP .064 (2-2/3 X 1/2)
RCP CLASS III

CONSTRUCT DRIVE
37+35 LT (19 FT WIDE, PAVED, COMM.)

CHANGING ELEVATION OF SEWER MANHOLES
37+67 LT (PART.)

CAST-IN-PLACE CONCRETE CURB, TYPE B
35+95 TO 36+60 RT

PORTLAND CEMENT
CONCRETE SIDEWALK, 5 INCH
37+15 TO 37+25 LT
37+44 TO 37+87 LT

PORTLAND CEMENT
CONCRETE SIDEWALK, 8 INCH
37+25 TO 37+44 LT

DETECTABLE WARNING SURFACE (DWS)
37+79 TO 37+83 LT

BOX BEAM GUARDRAIL (COATED BLACK)
36+15 TO 36+25 RT
37+69 TO 37+73 RT

GUARDRAIL APPROACH SECTION, GALVANIZED
3 RAIL BOX BEAM (COATED BLACK)
36+25 TO 36+59 RT
37+38 TO 37+69 RT

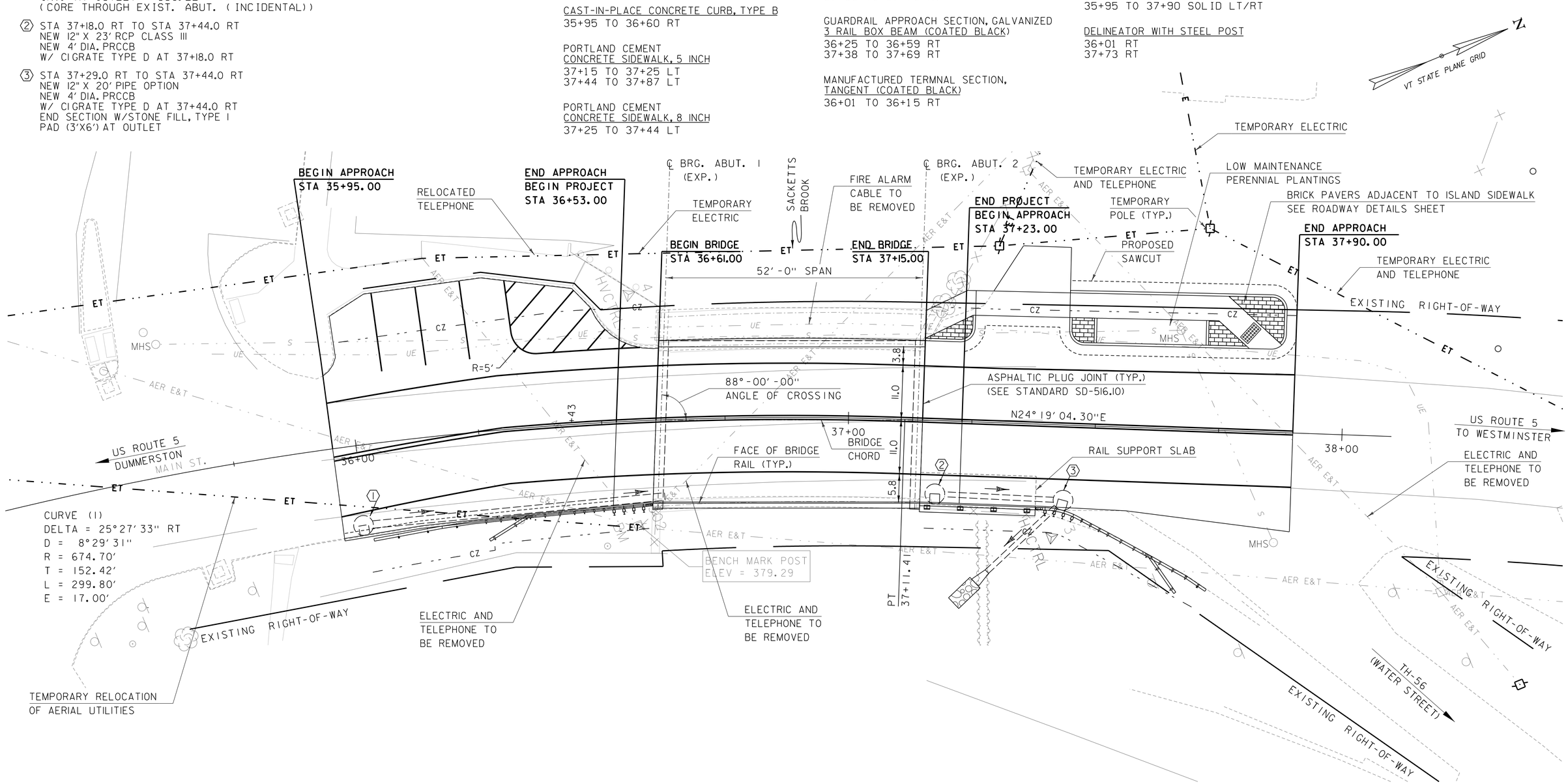
MANUFACTURED TERMNAL SECTION,
TANGENT (COATED BLACK)
36+01 TO 36+15 RT

DURABLE 4 INCH WHITE LINE
35+95 TO 37+90 SOLID LT/RT
36+07 TO 36+33 SOLID LT
36+33 TO 36+61 SOLID LT

DURABLE 4 INCH YELLOW LINE
35+95 TO 37+90 SOLID LT/RT

DELINEATOR WITH STEEL POST
36+01 RT
37+73 RT

VERTICAL GRANITE CURB (MOUNTABLE 4" BEVEL)
37+15 TO 37+25 LT
37+44 TO 37+80 LT
37+44 TO 37+88 LT
37+50 LT
37+72 LT



EXISTING BRIDGE DATA:

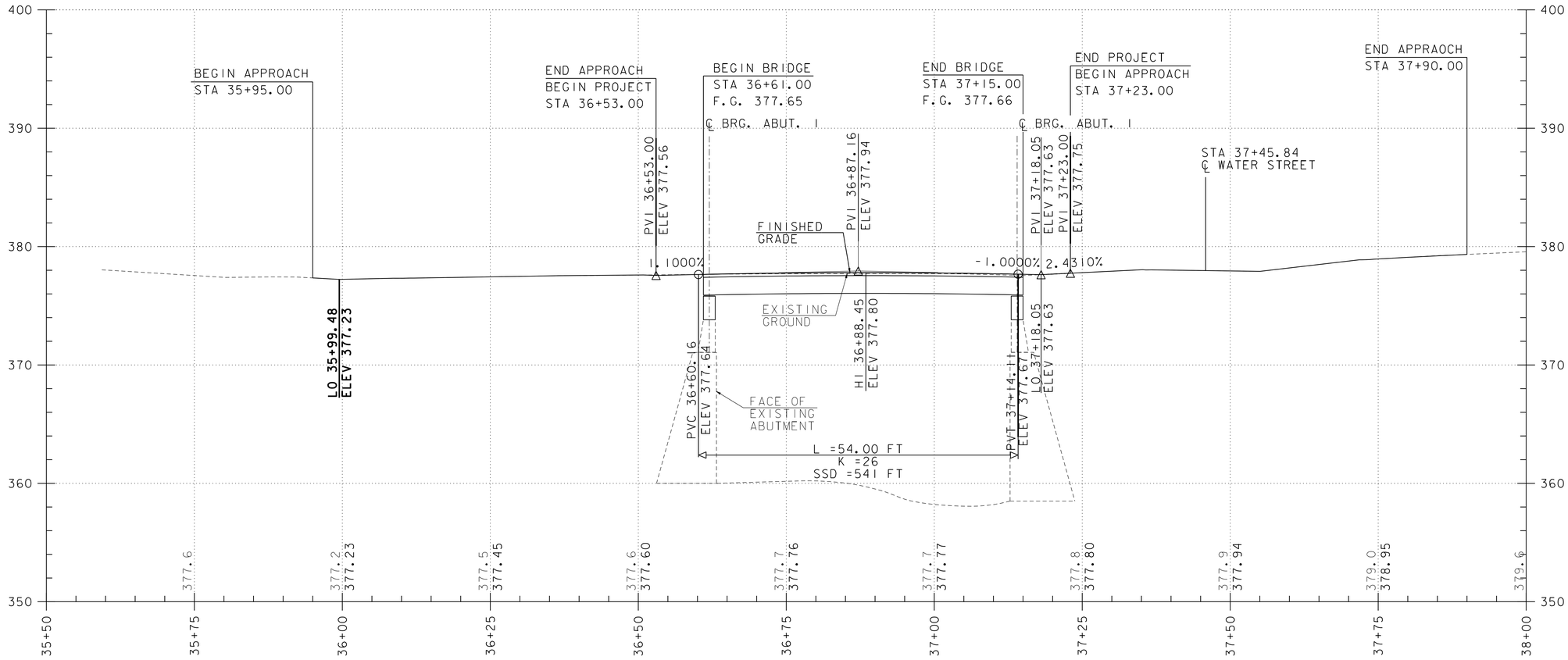
ROLLED BEAMS, CONCRETE DECK
SPAN = 52'-0"
WIDTH = 40'-4" OUT-TO-OUT
BUILT IN 1954.

0 10 20
SCALE IN FEET

CONSULTING ENGINEERS

PROJECT NAME:	PUTNEY
PROJECT NUMBER:	STP DECK(38)
FILE NAME: z15b105bdr-15.dgn	PLOT DATE: 10/28/2016
PROJECT LEADER: J. BYATT	DRAWN BY: M. SMITH
DESIGNED BY: S. FORTIER	CHECKED BY: L. GREER
LAYOUT SHEET	SHEET 9 OF 16

CLD 16-0272



US 5 ROUTE PROFILE

HOR. SCALE 1" = 20'-0"
VER. SCALE 1" = 10'-0"

NOTES

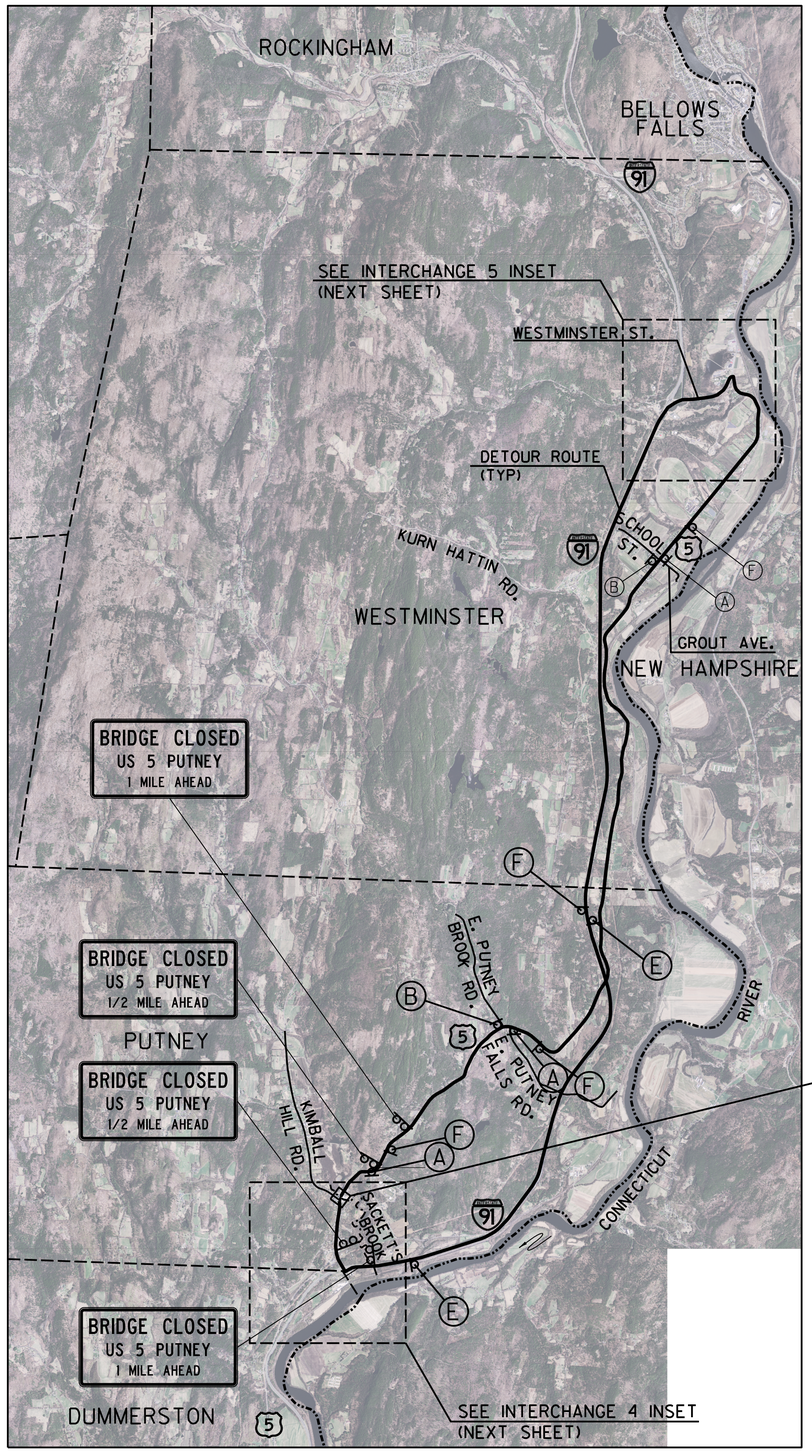
1. STATIONS AND ELEVATIONS ARE IN FEET.
2. THE ELEVATIONS SHOWN TO THE NEAREST TENTH ARE THE EXISTING GROUND ALONG THE CENTERLINE.
3. THE ELEVATIONS SHOWN TO THE NEAREST HUNDRETH ARE THE FINISHED GRADE ALONG THE CENTERLINE.

CLD 16-0272

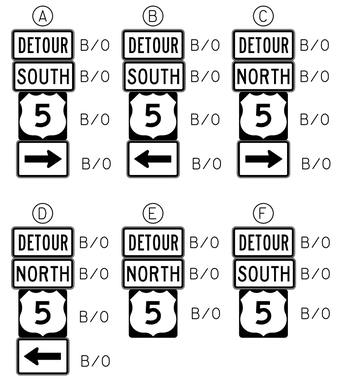
PROJECT NAME: PUTNEY
PROJECT NUMBER: STP DECK(38)

FILE NAME: z15bl05pro-15.dgn
PROJECT LEADER: J. BYATT
DESIGNED BY: S. FORTIER
PROFILE SHEET

PLOT DATE: 10/28/2016
DRAWN BY: S. FORTIER
CHECKED BY: L. GREER
SHEET 10 OF 16



0 4000 8000
(SCALE IN FEET)



TRAFFIC CONTROL NOTES

1. TRAFFIC WILL BE MAINTAINED ON A REGIONAL DETOUR VIA INTERSTATE 91 AND US ROUTE 5 BETWEEN DUMMERSTON, PUTNEY AND WESTMINSTER.
2. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ALL DETOUR AND CONSTRUCTION SIGNING. THE EXACT LOCATION WILL BE COORDINATED WITH THE ENGINEER AND SHALL BE IN ACCORDANCE WITH THE LATEST EDITION OF THE MUTCD.
3. TRAFFIC CONTROL WARNING SIGNS SHALL BE PROVIDED PER STANDARD T-1 AND THE LATEST EDITION OF THE MUTCD. ADDITIONAL PROJECT CONSTRUCTION SIGNS SHALL BE INSTALLED AS SHOWN ON THE PLANS AND AS DIRECTED BY THE ENGINEER. ALL ON AND OFF PROJECT SIGNS AND BARRICADES AS REQUIRED FOR THE DETOUR WILL BE THE RESPONSIBILITY OF THE CONTRACTOR AND WILL BE PAID FOR UNDER THE ITEM 900.645, SPECIAL PROVISION (TRAFFIC CONTROL, ALL-INCLUSIVE). ALL SIGNS AND BARRICADES SHALL BE INSPECTED DAILY AND REPAIRED AS NECESSARY. ALL SIGNS AND BARRICADES SHALL BE CLEARED OF DUST AND DEBRIS WEEKLY.
4. PORTABLE CHANGEABLE MESSAGE SIGNS (PCMS) SHALL BE PLACED AT THE APPROXIMATE LOCATIONS SHOWN ON THE PLANS OR WHERE DIRECTED BY THE ENGINEER. TWO PCMS SHALL BE PLACED AT THE PROJECT LOCATION 14 DAYS PRIOR TO THE START OF CONSTRUCTION. MESSAGE TO SAY "DETOUR AHEAD (DATE) - (DATE)", TO WARN OF THE IMPENDING DETOUR. THESE PCMS SHALL THEN BE REMOVED AND DEPLOYED TO THE LOCATIONS SHOWN ONCE CONSTRUCTION HAS BEGUN. PAYMENT FOR THESE SIGNS, INCLUDING ANY RELOCATING REQUIRED, SHALL BE INCLUDED IN THE UNIT PRICE BID FOR ITEM 641.15 PORTABLE CHANGEABLE MESSAGE SIGN.
5. THE ROUTE MARKERS USED FOR THE DETOUR AS SHOWN ON THE PLANS SHALL FOLLOW STANDARDS E-127 AND E-136B. THESE SIGNS SHALL BE REMOVED AT THE END OF THE CONSTRUCTION PERIOD. THESE SIGNS AND THEIR REMOVAL WILL BE PAID FOR UNDER ITEM 900.645, SPECIAL PROVISION (TRAFFIC CONTROL, ALL-INCLUSIVE).
6. ACCESS TO ALL EXISTING DRIVES AND SIDE ROADS SHALL BE MAINTAINED AT ALL TIMES DURING ALL PHASES OF CONSTRUCTION.
7. INSTALLATION OF DETOUR SIGNS SHALL NOT BLOCK ANY EXISTING TRAFFIC CONTROL SIGN ASSEMBLIES AND SHALL MODIFY OR BE PLACED ADJACENT TO EXISTING SIGN ASSEMBLIES WHEN POSSIBLE. THE CONTRACTOR SHALL MAINTAIN AT LEAST 200 FEET BETWEEN SIGN ASSEMBLIES WHENEVER POSSIBLE.
8. EXISTING SIGNS THAT ARE IN CONFLICT WITH THE TRAFFIC FLOW OF THE DETOUR SHALL BE REMOVED OR COVERED BY THE CONTRACTOR. ALL SIGNS REMOVED OR COVERED SHALL BE REPLACED OR UNCOVERED AND ANY STICKY RESIDUE REMOVED WHEN THE TRAFFIC CONTROL PLAN IS DISASSEMBLED. PAYMENT FOR THIS WORK WILL BE CONSIDERED INCIDENTAL TO ITEM 900.645, SPECIAL PROVISION (TRAFFIC CONTROL, ALL-INCLUSIVE).
9. CONTACT DIG-SAFE AT LEAST 48 HOURS PRIOR TO BREAKING GROUND TO INSTALL ANY SIGN POSTS.
10. TEMPORARY TRAFFIC BARRIER WILL BE PAID FOR UNDER ITEM 900.645, SPECIAL PROVISION (TRAFFIC CONTROL, ALL-INCLUSIVE) AND SHALL BE USED FOR THE CLOSURE OF THE BRIDGE. CONTRACTOR SHALL INSTALL BARRIER AS NECESSARY TO PREVENT THE TRAVELLING PUBLIC FROM ENTERING THE CONSTRUCTION SITE.

BRIDGE CLOSED US 5 SOUTH BEFORE KIMBALL HILL RD PUTNEY NO THRU TRAFFIC B/W

BRIDGE CLOSED US 5 PUTNEY AFTER KIMBALL HILL RD NO THRU TRAFFIC B/W

BRIDGE CLOSED US 5 PUTNEY 1 MILE AHEAD B/W

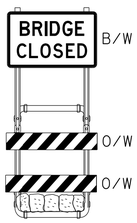
BRIDGE CLOSED US 5 PUTNEY 3/4 MILE AHEAD B/W

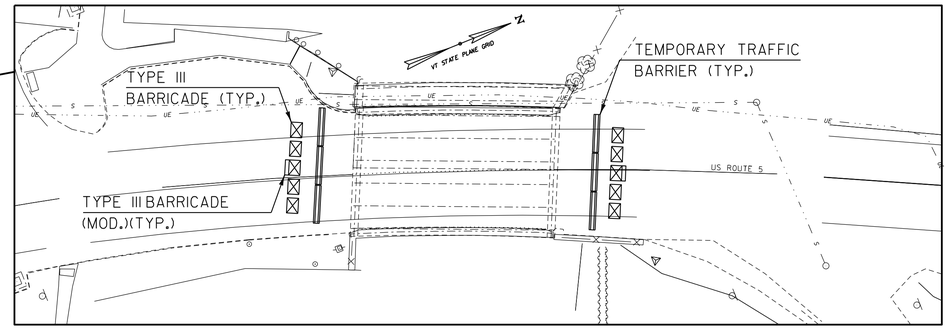
BRIDGE CLOSED US 5 PUTNEY 1/2 MILE AHEAD B/W

BRIDGE CLOSED US 5 PUTNEY NO THRU TRAFFIC B/W

PUTNEY STP DECK(38) BRIDGE CLOSURE

RII-2b B/W SIGN MOUNTED ON TYPE III BARRICADE (MODIFIED)





DETAIL A

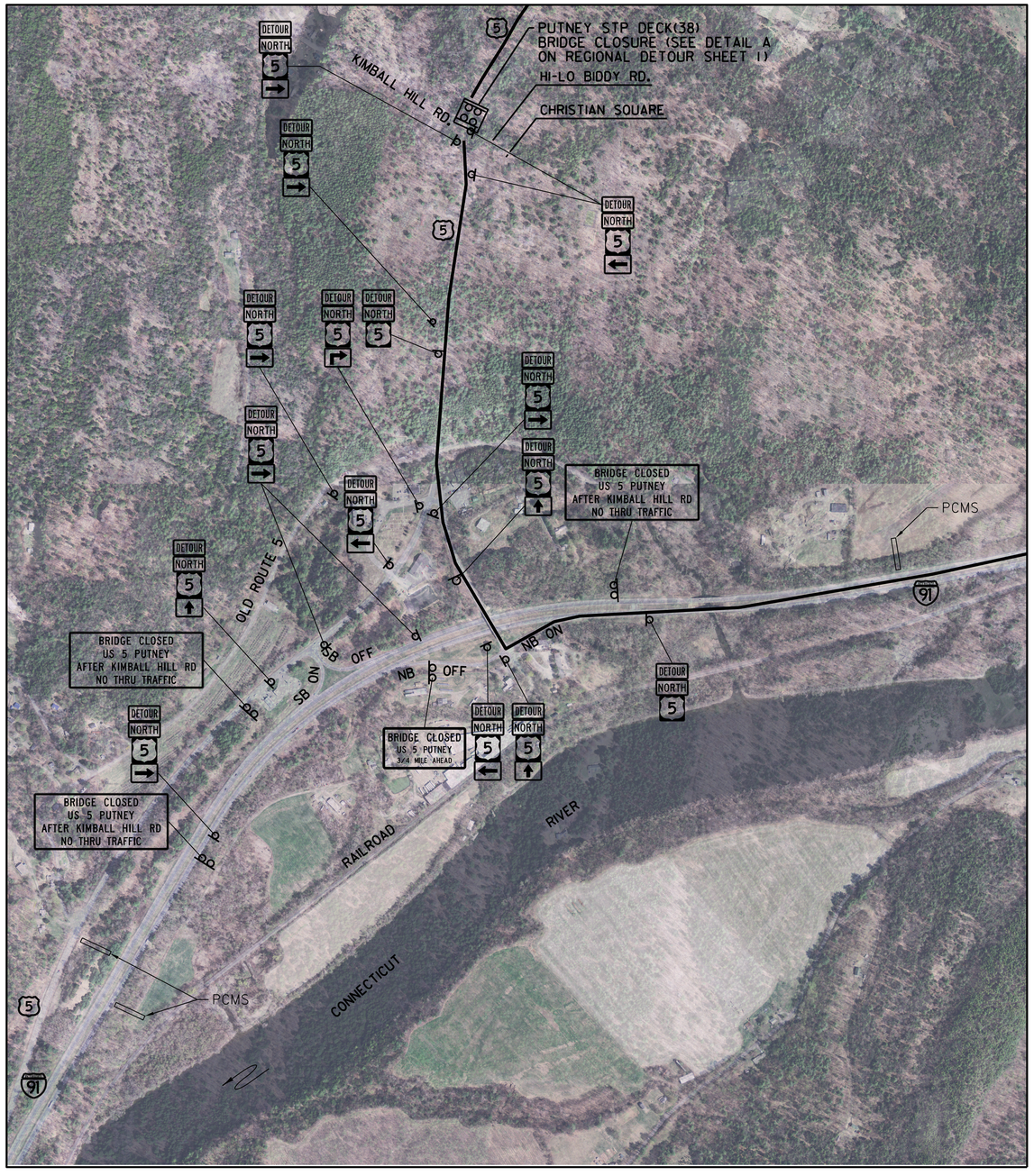
0 20 40
(SCALE IN FEET)

CONSULTING ENGINEERS

PROJECT NAME: PUTNEY
PROJECT NUMBER: STP DECK(38)

FILE NAME: z15b105tcpsignl-15.dgn
PROJECT LEADER: J. BYATT
DESIGNED BY: S. FORTIER
REGIONAL DETOUR SHEET 1

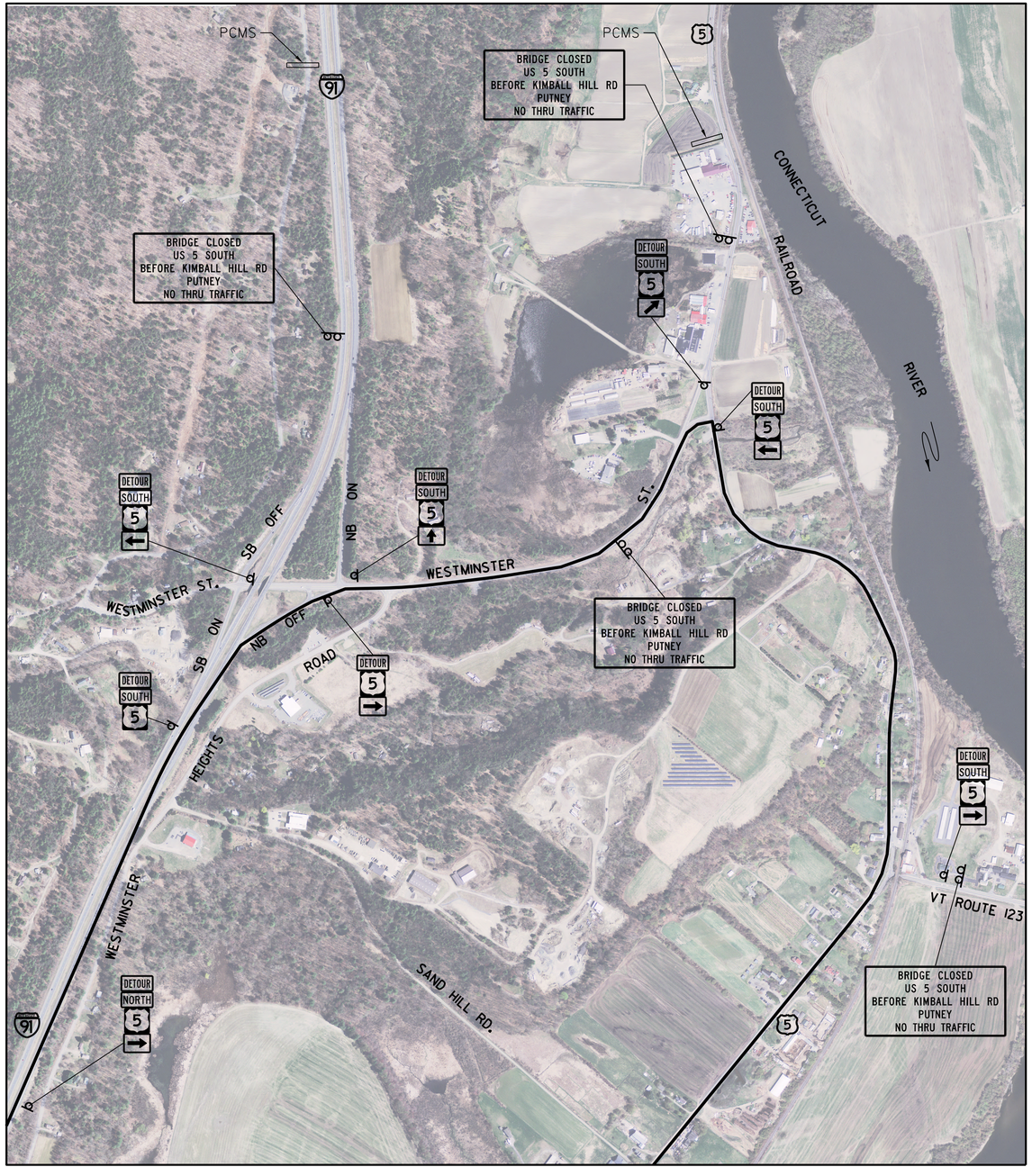
PLOT DATE: 10/28/2016
DRAWN BY: M. G. SMITH
CHECKED BY: L. GREER
SHEET 11 OF 16



INTERCHANGE 4 INSET

N

VT STATE PLANE GRID



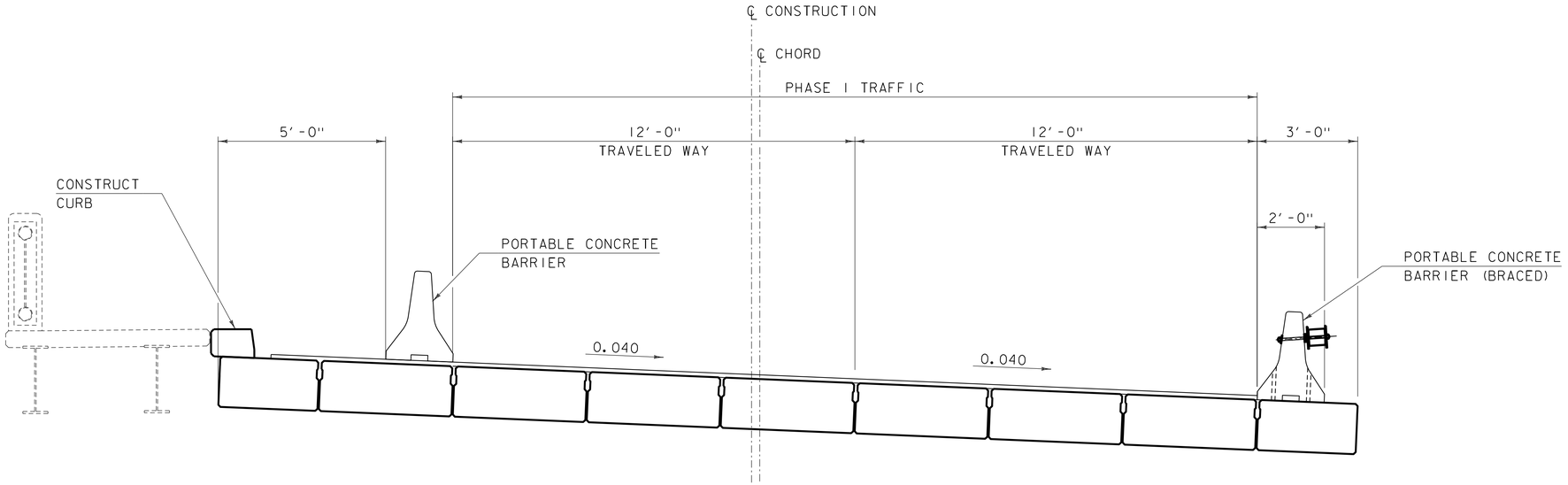
INTERCHANGE 5 INSET

0 500 1000

SCALE IN FEET

PROJECT NAME:	PUTNEY
PROJECT NUMBER:	STP DECK(38)
FILE NAME: z15b105tcpsign2-15.dgn	PLOT DATE: 10/28/2016
PROJECT LEADER: J. BYATT	DRAWN BY: M.G. SMITH
DESIGNED BY: S. FORTIER	CHECKED BY: L. GREER
REGIONAL DETOUR SHEET 2	SHEET 12 OF 16

CLD CONSULTING ENGINEERS

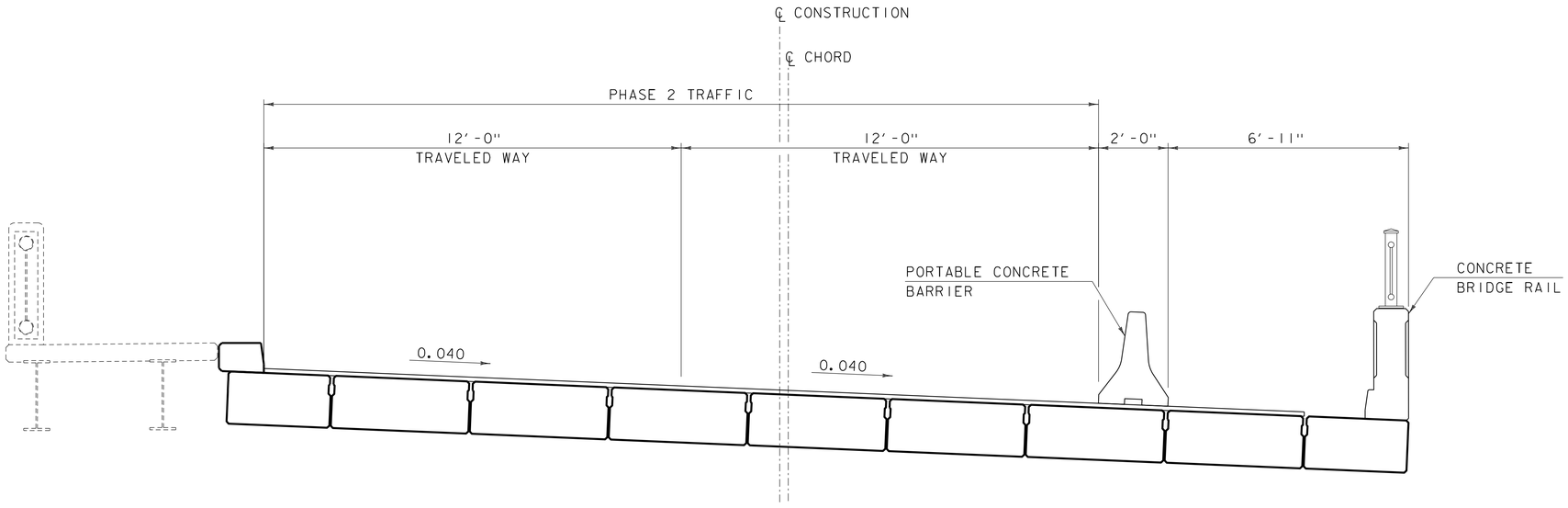


PHASE 1

SCALE: 1/2" = 1'-0"

NOTE:

PHASING REQUIRED TO CONSTRUCT BRIDGE CURB AND RAIL AFTER BRIDGE CLOSURE PERIOD.

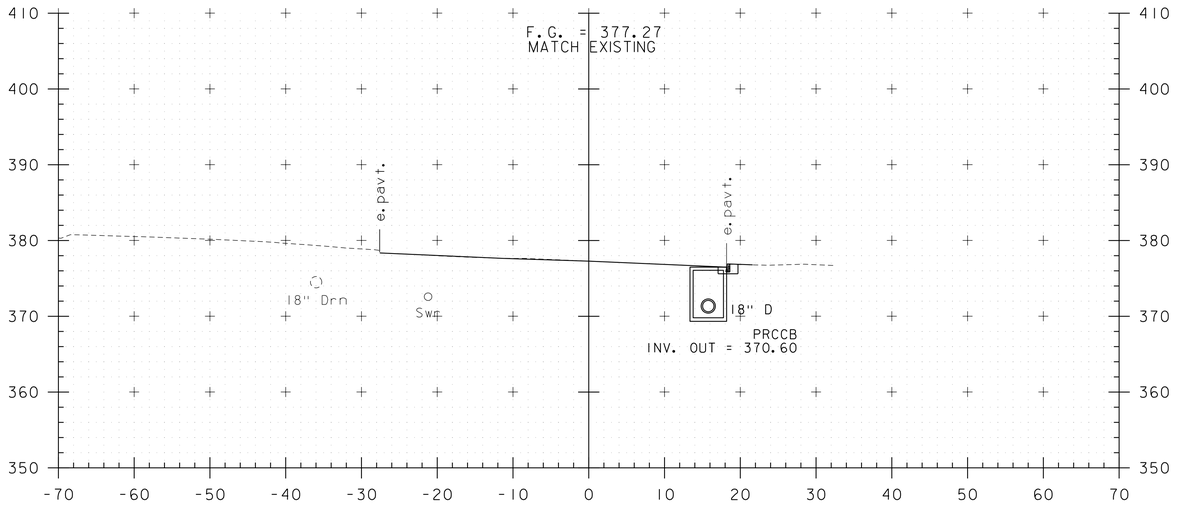


PHASE 2

SCALE: 1/2" = 1'-0"

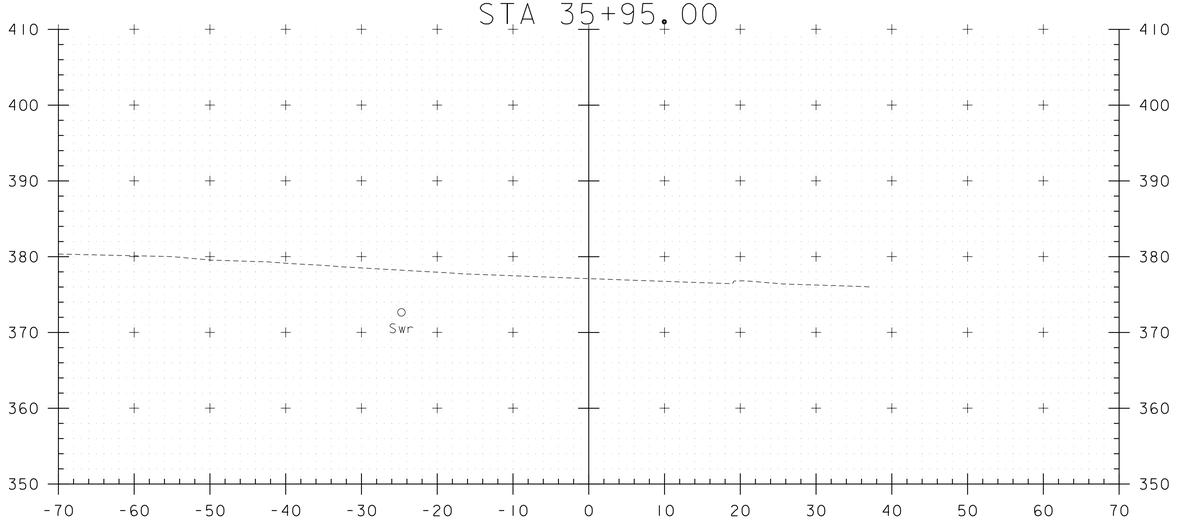
PROJECT NAME:	PUTNEY
PROJECT NUMBER:	STP DECK(38)
FILE NAME: z15b105sup-15.dgn	PLOT DATE: 10/28/2016
PROJECT LEADER: J. BYATT	DRAWN BY: M. SMITH
DESIGNED BY: J. FRENCH	CHECKED BY: J. BYATT
PHASING SECTIONS SHEET	SHEET 13 OF 16

CLD 15-0223 MODEL: Sheet03



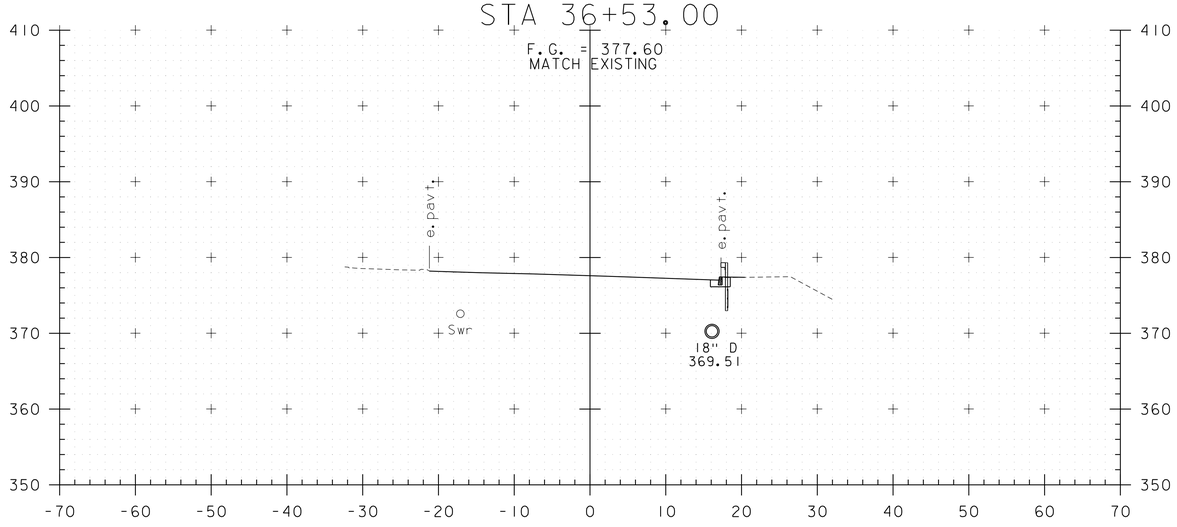
36+00

BEGIN APPROACH
STA 35+95.00

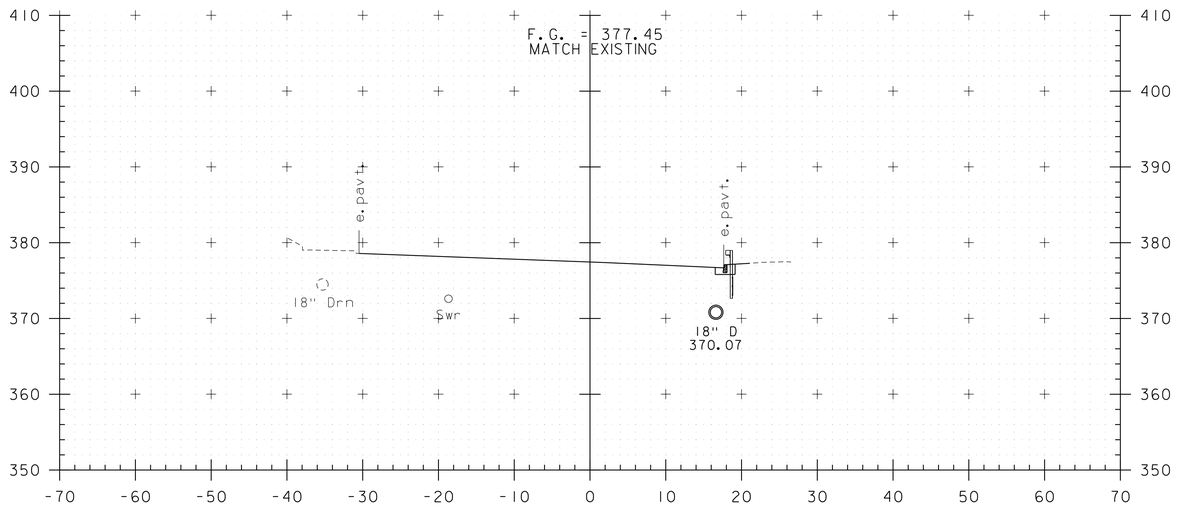


35+75

BEGIN PROJECT
STA 36+53.00



36+50



36+25

NOTE:
EXISTING UTILITIES ELEVATIONS ARE APPROXIMATE

STA. 35+75 TO STA. 36+50

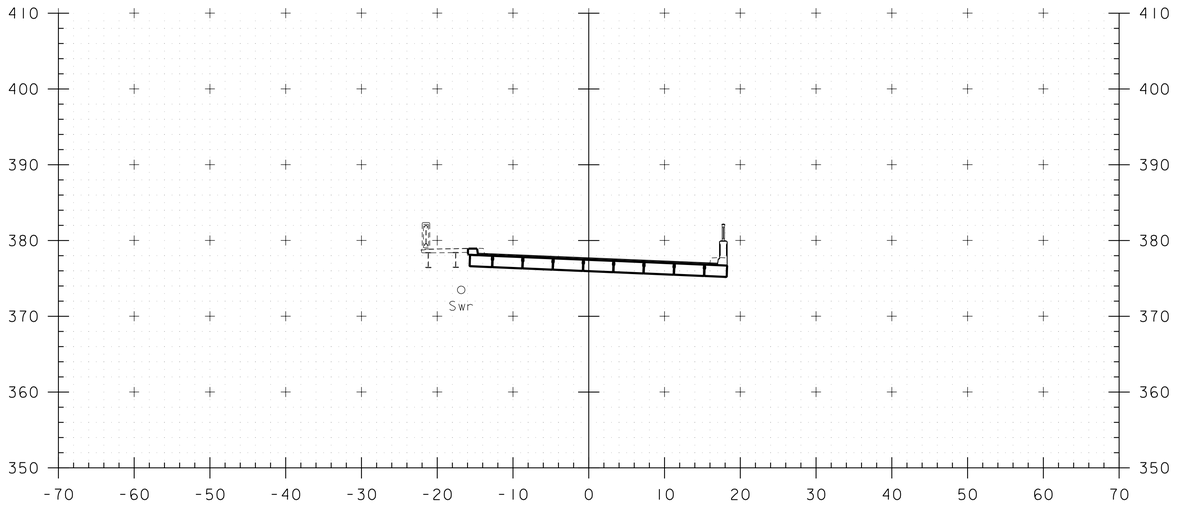
CONSULTING ENGINEERS

PROJECT NAME: PUTNEY
PROJECT NUMBER: STP DECK(38)

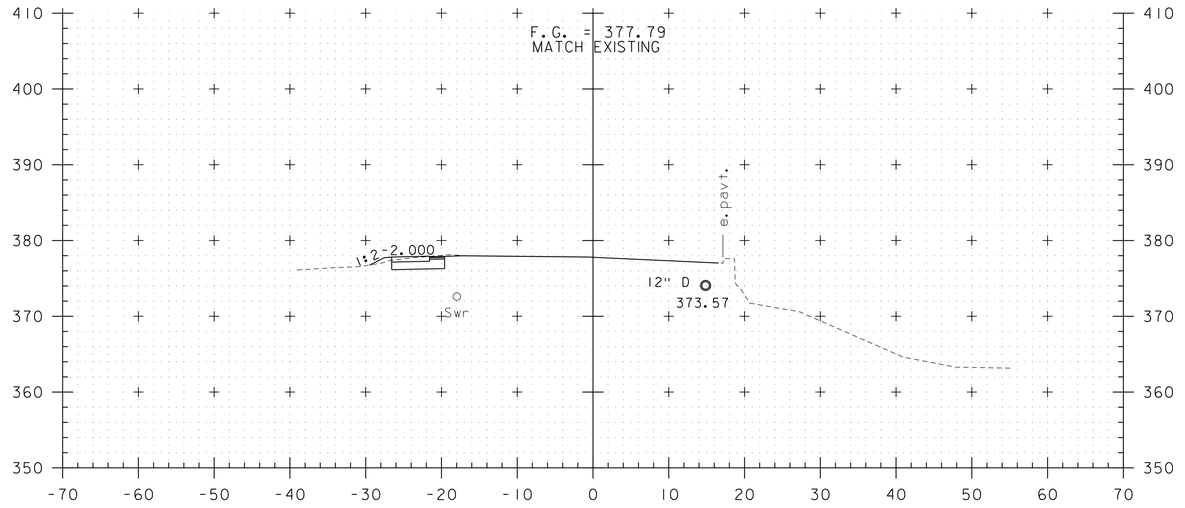
FILE NAME: z15b105xs-15.dgn
PROJECT LEADER: J. BYATT
DESIGNED BY: S. FORTIER
US 5 CROSS SECTIONS 1

PLOT DATE: 10/28/2016
DRAWN BY: M.G. SMITH
CHECKED BY: L. GREER
SHEET 14 OF 16

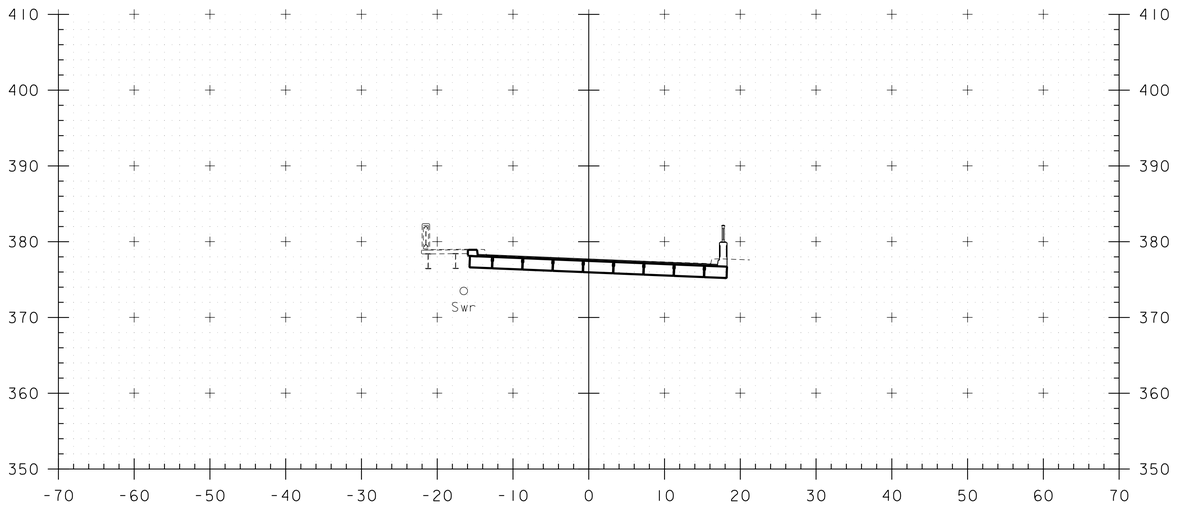
CLD 16-0272



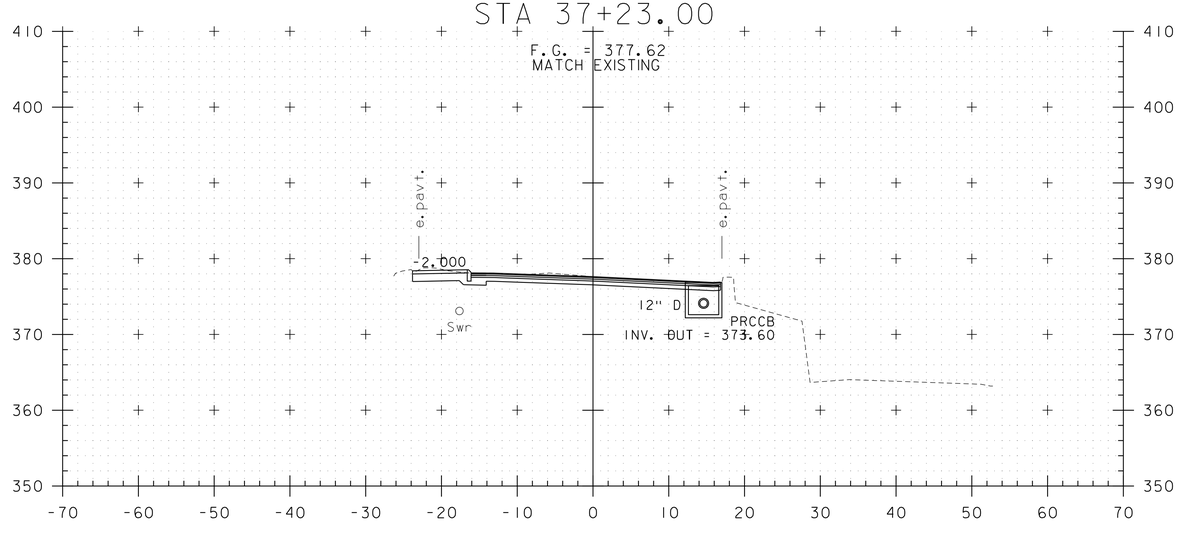
37+00



37+25
END PROJECT
STA 37+23.00



36+75
BEGIN BRIDGE
STA 36+61.00



37+18
END BRIDGE
STA 37+15.00

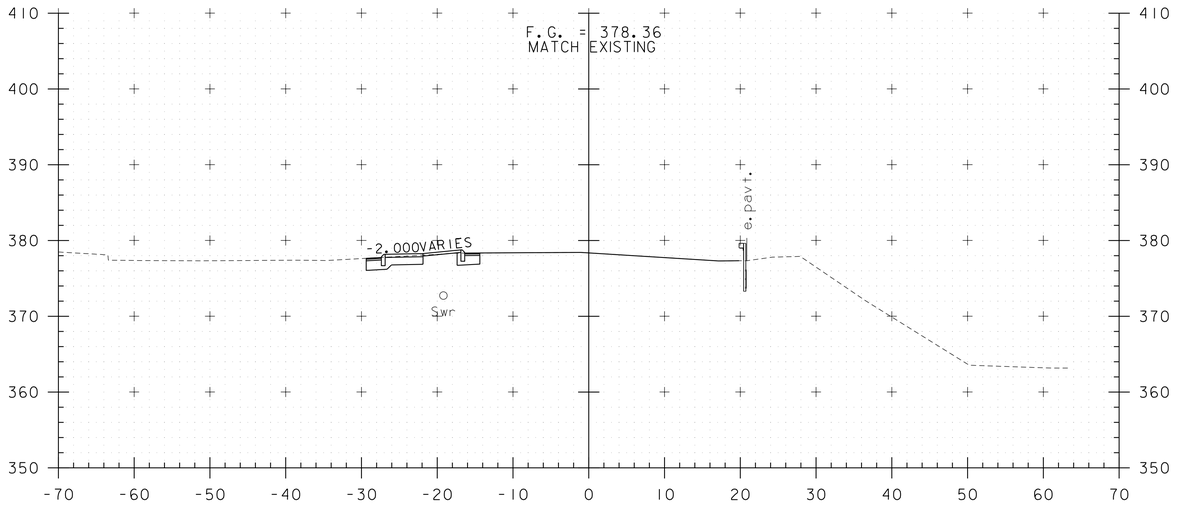
NOTE:
EXISTING UTILITIES ELEVATIONS ARE APPROXIMATE

STA. 36+75 TO STA. 37+25

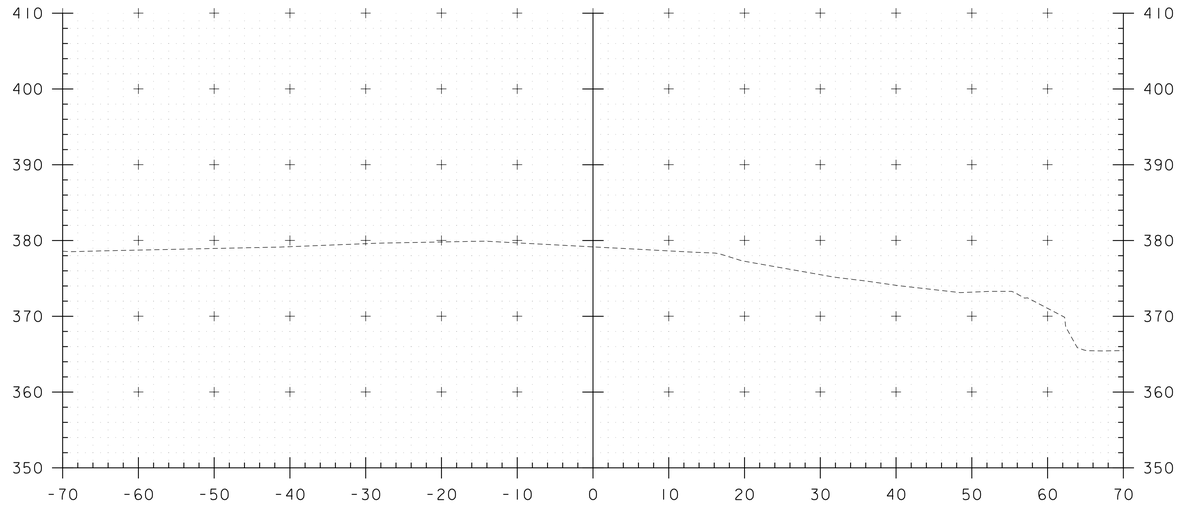
CONSULTING ENGINEERS

PROJECT NAME:	PUTNEY
PROJECT NUMBER:	STP DECK(38)
FILE NAME: z15b105xs-15.dgn	PLOT DATE: 10/28/2016
PROJECT LEADER: J. BYATT	DRAWN BY: M.G. SMITH
DESIGNED BY: S. FORTIER	CHECKED BY: L. GREER
US 5 CROSS SECTIONS 2	SHEET 15 OF 16

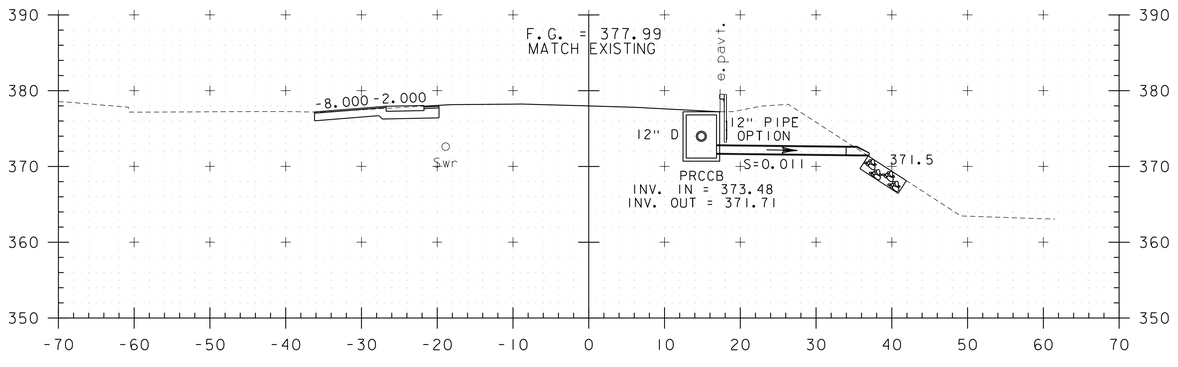
CLD 16-0272



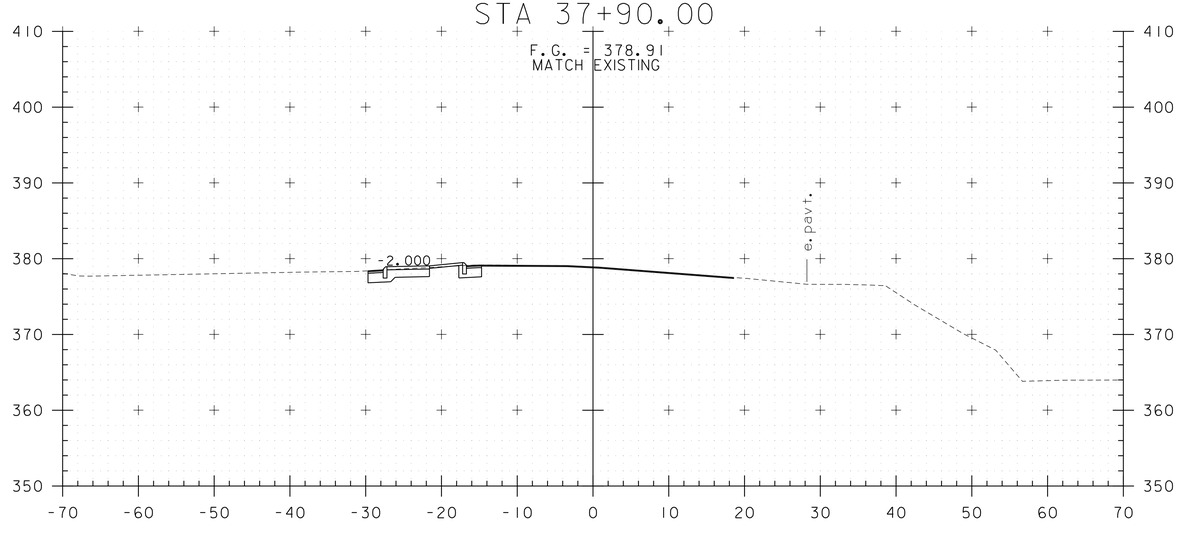
37+50



38+00
END APPROACH
STA 37+90.00



37+44



37+75

NOTE:
EXISTING UTILITIES ELEVATIONS ARE APPROXIMATE

STA. 37+44 TO STA. 38+00

CONSULTING ENGINEERS

PROJECT NAME: PUTNEY	
PROJECT NUMBER: STP DECK(38)	
FILE NAME: z15b105xs-15.dgn	PLOT DATE: 10/28/2016
PROJECT LEADER: J. BYATT	DRAWN BY: M.G. SMITH
DESIGNED BY: S. FORTIER	CHECKED BY: L. GREER
US 5 CROSS SECTIONS 3	SHEET 16 OF 16

CLD 16-0272