

INDEX OF SHEETS

- 2 CONVENTIONAL SYMBOLOGY LEGEND SHEET
- 3 NOTES SHEET
- 4-7 TYPICAL SECTIONS
- 8-9 DETAILS SHEETS
- 10 ALIGNMENT LAYOUT PLAN
- 11-12 ROADWAY LAYOUT PLANS
- 13-15 PROFILES
- 16-17 SIGNING AND STRIPING PLANS
- 18-29 CROSS SECTIONS

Traffic Control Plan?
 Traffic Control Notes?
 How will construction vehicles access the site?
 Access to nearby drivers and roadways will need to be accommodated.
 Please refer to the Work Zone Safety & Mobility Guidance for more information.
 The Traffic Control plan should include the following:
 General Traffic Control Notes
 Special provisions - Access to businesses and residence, etc.
 Utilizing flaggers and UFDs within the Work Zone
 Pedestrian Accommodations, Bicycle Accommodations, Emergency Vehicles, school bus, postal deliveries, trash pick-up, PCMS messages examples.
 Construction Phasing & Sequencing: (including pedestrian accommodations where applicable)
 A layout of each phase of construction showing:
 Existing lane configurations,
 Existing traffic control devices (signs, signals, and pavement markings)
 Existing site specific features: drives, ramps, and highway intersections.
 Location of all temporary traffic control devices
 Flagger and UFD locations.
 All pertinent dimensions shall be labeled -Taper lengths, temporary lane widths, and distance from existing traffic control devices
 Work Zone limitations - speed reduction, surface conditions, delay times, temporary pavement markings

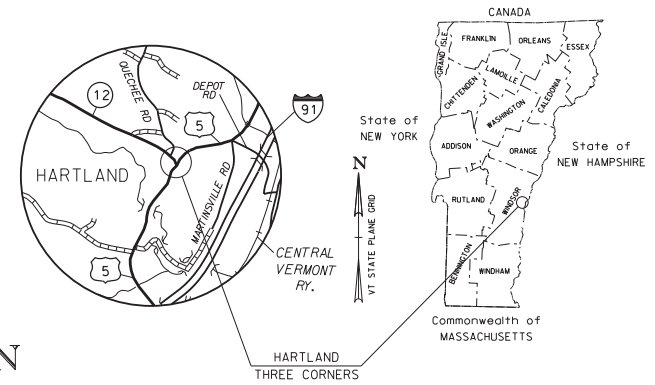
District 4 is requesting that alternate configurations such as a Roundabout be explored. The multiple stop in this design still has 4 stop signs which is only one less than the current situation. For the amount of work involved in this project, the public should be given a resulting product that is much more efficient. This really looks like a roundabout for a roundabout.

The potential impacts to cultural and natural resources from a roadway realignment project would typically be sent through the Environmental Section for review and clearances, with possible permitting requirements. Projects with much less potential impact are reviewed and cleared by us; it looks like there is a lot going on here, and this is an important intersection.

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 :
SURVEYED BY : VHB
SURVEYED DATE : SEPTEMBER 2015
DATUM
VERTICAL NAVD 88 (GEOID 12A)
HORIZONTAL VT STATE PLANE (NAD 83)

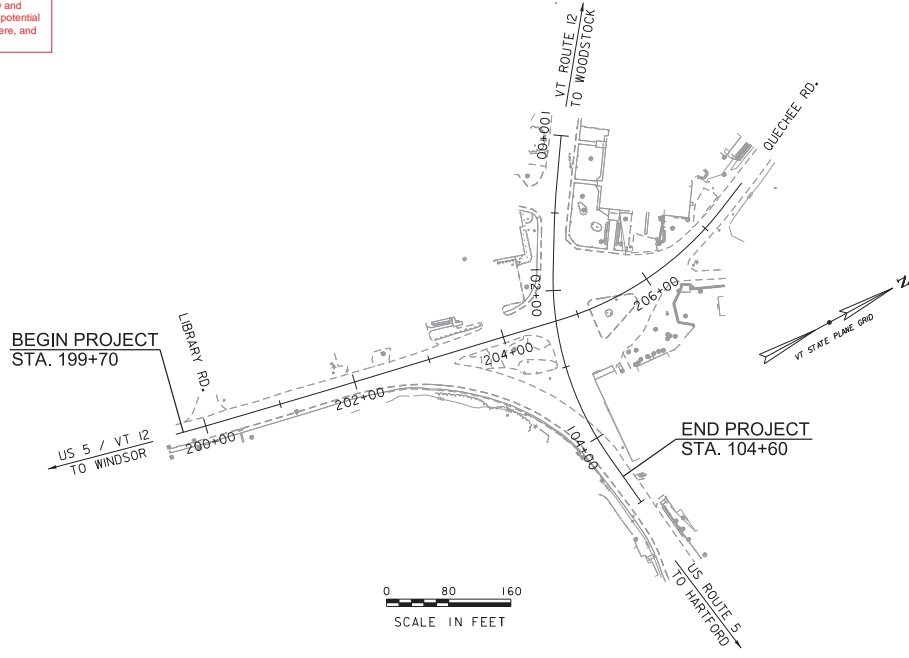
PROPOSED IMPROVEMENT INTERSECTION PROJECT TOWN OF HARTLAND COUNTY OF WINDSOR THREE CORNERS INTERSECTION



PROJECT LOCATION: THIS PROJECT IS LOCATED AT THE INTERSECTION OF VT ROUTE 12, US ROUTE 5, AND QUECHEE ROAD. THE PROJECT BEGINS ON US ROUTE 5 AT LIBRARY ROAD AND EXTENDS APPROXIMATELY 250 FEET NORTH OF THE VT 12/QUECHEE ROAD INTERSECTION. THE PROJECT EXTENDS FROM 125 FEET WEST TO 200 FEET EAST OF THE INTERSECTION.

PROJECT DESCRIPTION: THE WORK TO BE PERFORMED UNDER THIS PROJECT INCLUDES A REALIGNMENT OF THE INTERSECTION, NEW SURFACE PAVEMENT, NEW SIDEWALK, NEW DRAINAGE, STRIPING, SIGNAGE, LANDSCAPING, AND OTHER INCIDENTAL ITEMS NEEDED FOR CONSTRUCTION.

PROJECT LENGTH: 1096 FT = .208 MILES



VTRANS STANDARDS

SHEET #	TITLE	DATE
C-10	CURBING	02-11-2008
C-2A	PORTLAND CEMENT CONCRETE SIDEWALK DRIVE ENTRANCES WITH SIDEWALK AND GREEN STRIP	10-14-2005
C-2B	PORTLAND CEMENT CONCRETE SIDEWALK DRIVE ENTRANCES WITH SIDEWALK ADJACENT TO CURB	10-14-2005
C-3A	SIDEWALK RAMPS	03-10-2008
D-13	CONCRETE CATCH BASIN	01-03-2000
D-16	DRAINAGE DETAILS INCLUDING CROP INLET, IRON GRATE TYPE B&C, CONC END SECTIONS, ETC.	06-01-1994
D-20	HIGHWAY CROSSING FOR UNDERGROUND UTILITIES	03-03-2003
T-1	TRAFFIC CONTROL GENERAL NOTES	08-06-2012
T-10	CONVENTIONAL ROADS CONSTRUCTION APPROACH SIGNING	08-06-2012
E-121	STANDARD SIGN PLACEMENT - CONVENTIONAL ROAD	08-08-1995
E-191	PAVEMENT MARKING DETAILS	02-01-1999
T-45	SQUARE TUBE SIGN POST AND ANCHOR	01-02-2013

**PRELIMINARY
 PLANS**

APRIL 2016

PROJECT MANAGER : J. D. SALADINO

PROJECT NAME : HARTLAND
 VHB PROJECT NUMBER : 57790.00

SHEET 1 OF 31 SHEETS



GENERAL INFORMATION

SYMBOLGY LEGEND NOTE

THE SYMBOLGY ON THIS SHEET IS INTENDED TO COVER STANDARD CONVENTIONAL SYMBOLGY. THE SYMBOLGY 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. SYMBOLGY 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 VALVE
⊙	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 SYMBOLGY

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 SYMBOLGY

PROJECT DESIGN & LAYOUT SYMBOLGY

— — — — — CZ — — — — —	CLEAR ZONE
—————	PLAN LAYOUT MATCHLINE

PROJECT CONSTRUCTION FEATURES

△ — △ — △ — △ — △	TOP OF CUT SLOPE
○ — ○ — ○ — ○ — ○	TOE OF FILL SLOPE
⊙ — ⊙ — ⊙ — ⊙ — ⊙	STONE FILL
⊕ — ⊕ — ⊕ — ⊕ — ⊕	BOTTOM OF DITCH
— — — — —	CULVERT PROPOSED
— — — — — PDF — — — — — PDF	STRUCTURE SUBSURFACE
— — — — — BF — — — — — BF	PROJECT DEMARCATION FENCE
XXXXXXXXXXXXXXXXXXXXXXXXXXXX	BARRIER FENCE
XXXXXXXXXXXXXXXXXXXXXXXXXXXX	TREE PROTECTION ZONE (TPZ)
//////	STRIPING LINE REMOVAL
~~~~~	SHEET PILES

**CONVENTIONAL BOUNDARY SYMBOLGY**

**BOUNDARY LINES**

—————	TOWN BOUNDARY LINE
—————	COUNTY BOUNDARY 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
— — — — —	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 SYMBOLGY**

**EPSC MEASURES**

○○○○○○○○○○	FILTER CURTAIN
— — — — —	SILT FENCE
— X — X — X — X — X	SILT FENCE WOVEN WIRE
— — — — —	CHECK DAM
▣	DISTURBED AREAS REQUIRING RE-VEGETATION
⊠	EROSION MATTING

SEE EPSC DETAIL SHEETS FOR ADDITIONAL SYMBOLGY

**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 SYMBOLGY**

**EXISTING FEATURES**

— — — — —	ROAD EDGE PAVEMENT
— — — — —	ROAD EDGE GRAVEL
— — — — —	DRIVEWAY EDGE
— — — — —	DITCH
— — — — —	FOUNDATION
x — x — x — x — x	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

PROJECT NAME:	HARTLAND
PROJECT NUMBER:	57790.00
FILE NAME:	57790.00legend.dgn
PROJECT LEADER:	J. D. SALADINO
DESIGNED BY:	D. M. PECK
CONVENTIONAL SYMBOLGY LEGEND SHEET	
PLOT DATE:	4/22/2016
DRAWN BY:	VTRANS
CHECKED BY:	
SHEET	2 OF 31



GENERAL NOTES

1. ALL MATERIALS AND CONSTRUCTION SHALL CONFORM TO THE STATE OF VERMONT AGENCY OF TRANSPORTATION'S STANDARD SPECIFICATIONS FOR CONSTRUCTION, DATED 2011, AND ITS LATEST REVISIONS, AND SUCH SPECIFICATIONS AND SPECIAL PROVISIONS AS ARE INCORPORATED IN THE FINAL CONTRACT DOCUMENTS.
2. PER ADA GUIDELINES, SIDEWALK CROSS SLOPES SHALL NOT EXCEED 2%.
3. UNLESS OTHERWISE NOTED ON THE PLANS, ALL EXISTING PAVEMENT AND SIDEWALK CALLED OUT FOR REMOVAL ON THE ROADWAY LAYOUT PLANS SHALL BE REPLACED WITH ACCEPTABLE BACKFILL AND 4" OF TOPSOIL & SEED TO MEET FINISHED GRADE ELEVATIONS. REMOVAL OF EXISTING CONCRETE SIDEWALK SHALL BE PAID FOR UNDER ITEM 203.16 - ROCK STRUCTURE EXCAVATION. REMOVAL OF EXISTING PAVEMENT NOT CARRIED UNDER COMMON EXCAVATION SHALL BE PAID FOR UNDER ITEM 203.28 - EXCAVATION OF SURFACES AND PAVEMENTS.
4. EXISTING GRANITE CURB REMOVED DURING CONSTRUCTION SHALL BE RE-USED TO THE EXTENT POSSIBLE. ALL REMAINING EXISTING GRANITE CURB NOT RE-USED SHALL BE STOCKPILED AT A LOCATION IDENTIFIED BY THE TOWN OF HARTLAND.
5. VERTICAL GRANITE CURB SHALL CONFORM TO SECTION 616 OF THE STANDARD SPECIFICATIONS FOR VERTICAL GRANITE CURB.

CONSTRUCTION NOTES

1. THE CONTRACTOR SHALL ERECT, MAINTAIN, REMOVE, AND/OR RESET AS REQUIRED ALL ON-PROJECT SIGNS AND BARRICADES. ALL SIGNS AND BARRICADES SHALL BE INSPECTED AND REPAIRED DAILY. ALL SIGNS AND BARRICADES SHALL CONFORM TO THE LATEST VERSION OF MUTCD AND SHALL BE CLEANED OF DUST AND DEBRIS WEEKLY.
2. ANY EXISTING SIGNS NOT REUSED SHALL REMAIN THE PROPERTY OF THE TOWN OF HARTLAND. THESE SIGNS SHALL BE REMOVED BY THE CONTRACTOR AND STOCKPILED FOR REMOVAL BY THE TOWN. STOCKPILE LOCATION TO BE DETERMINED BY THE TOWN.
3. FULL ACCESS TO ALL DRIVES WITHIN THE PROJECT/APPROACH LIMITS SHALL BE MAINTAINED AT ALL TIMES. IF FULL ACCESS CANNOT BE MAINTAINED, THE CONTRACTOR SHALL CONTACT AND COORDINATE WITH THE BUSINESS OR PROPERTY OWNER AT LEAST 24 HOURS IN ADVANCE OF TEMPORARILY CLOSING OFF THE ACCESS.
4. THE CONTRACTOR SHALL VERIFY THE LOCATION OF ALL BURIED AND AERIAL UTILITIES AND POLES PRIOR TO STARTING WORK. THE CONTRACTOR SHALL COORDINATE WITH ALL UTILITY OWNERS TO CONFIRM ACTUAL LOCATIONS PRIOR TO CONSTRUCTION.  
 DIG-SAFE (1-888-344-7233)  
 GREEN MOUNTAIN POWER - DAN AUSTIN (802-886-3309)
5. THE FOLLOWING IS A LIST OF CONTACTS THE CONTRACTOR SHALL NOTIFY AT LEAST 2 FULL BUSINESS DAYS PRIOR TO EXCAVATING. THE TOWN OF HARTLAND SHALL REQUIRE AT LEAST 7 DAYS NOTIFICATION:  
 TOWN OF HARTLAND:  
 BOB STACEY, TOWN MANAGER (802-436-2119)  
 STATE OF VERMONT:  
 CHRISTOPHER BUMP, VTRANS DISTRICT 4 (802-296-5567)  
 THERESA GILMAN, VTRANS (802-828-2473)
6. CONTRACTOR SHALL BE RESPONSIBLE FOR SITE SECURITY AND JOB SAFETY. CONSTRUCTION ACTIVITIES SHALL BE IN ACCORDANCE WITH OSHA STANDARDS AND LOCAL REQUIREMENTS.
7. WORK WITHIN THE LOCAL RIGHTS-OF-WAY AND ACQUIRED EASEMENTS SHALL CONFORM TO LOCAL MUNICIPAL STANDARDS. WORK WITHIN STATE RIGHTS-OF-WAY SHALL CONFORM TO THE LATEST EDITION OF THE VTRANS STANDARD SPECIFICATIONS FOR CONSTRUCTION.
8. AREAS OUTSIDE THE LIMITS OF PROPOSED WORK DISTURBED BY THE CONTRACTOR'S OPERATIONS SHALL BE RESTORED BY THE CONTRACTOR TO THEIR ORIGINAL CONDITION AT THE CONTRACTOR'S EXPENSE.
9. IN THE EVENT THAT SUSPECTED CONTAMINATED SOIL, GROUNDWATER, AND OTHER MEDIA ARE ENCOUNTERED DURING EXCAVATION AND CONSTRUCTION ACTIVITIES BASED ON VISUAL, OLFACTORY, OR OTHER EVIDENCE, THE CONTRACTOR SHALL STOP WORK IN THE VICINITY OF THE SUSPECT MATERIAL TO AVOID FURTHER SPREADING OF THE MATERIAL, AND SHALL NOTIFY THE TOWN IMMEDIATELY SO THAT THE APPROPRIATE TESTING AND SUBSEQUENT ACTION CAN BE TAKEN.
10. DAMAGE RESULTING FROM CONTRACTOR CONSTRUCTION LOADS SHALL BE REPAIRED BY THE CONTRACTOR AT NO ADDITIONAL COST TO OWNER.
11. CONTRACTOR SHALL CONTROL STORMWATER RUNOFF DURING CONSTRUCTION AS PER THE EPSC PLANS AND THE ANR LOW RISK HANDBOOK FOR EROSION PREVENTION AND SEDIMENT CONTROL TO PREVENT ADVERSE IMPACTS TO OFF SITE AREAS, AND SHALL BE RESPONSIBLE TO REPAIR RESULTING DAMAGES, IF ANY, AT NO COST TO OWNER.
12. CONTRACTOR IS RESPONSIBLE FOR MAINTAINING AT LEAST ONE LANE OF TRAFFIC AT ALL TIMES. TRAFFIC SHALL BE MAINTAINED IN ACCORDANCE WITH SECTION 641 FOR TRAFFIC CONTROL AS DEFINED IN THE VERMONT AGENCY OF TRANSPORTATION STANDARD SPECIFICATIONS FOR CONSTRUCTION BOOK, DATED 2006 AND THE LATEST VERSION OF MUTCD.

UTILITY NOTES

1. 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.
2. WHERE AN EXISTING UTILITY IS FOUND TO CONFLICT WITH THE PROPOSED WORK, OR EXISTING CONDITIONS DIFFER FROM THOSE SHOWN SUCH THAT THE WORK CANNOT BE COMPLETED AS INTENDED, THE LOCATION, ELEVATION, AND SIZE OF THE UTILITY SHALL BE ACCURATELY DETERMINED AND THE INFORMATION FURNISHED IN WRITING TO THE TOWN AND DESIGN ENGINEER FOR THE RESOLUTION OF THE CONFLICT.
3. SET CATCH BASIN RIMS, AND INVERTS OF SEWERS, DRAINS, AND DITCHES IN ACCORDANCE WITH ELEVATIONS ON THE GENERAL PLANS, CROSS SECTIONS AND DRAINAGE NOTES.
4. RIM ELEVATIONS FOR DRAIN AND SEWER MANHOLES, WATER VALVE COVERS, GAS GATES, ELECTRIC AND TELEPHONE PULL BOXES, AND MANHOLES, AND OTHER SUCH ITEMS, ARE APPROXIMATE AND SHALL BE SET/RESET AS FOLLOWS:  
 A. PAVEMENTS AND CONCRETE SURFACES: FLUSH  
 B. ALL SURFACES ALONG ACCESSIBLE ROUTES: FLUSH  
 C. LANDSCAPE, LOAM AND SEED, AND OTHER EARTH SURFACE AREAS: ONE INCH ABOVE SURROUNDING AREA AND TAPER EARTH TO THE RIM ELEVATION.
5. ALL DRAINAGE AND SANITARY STRUCTURE INTERIOR DIAMETERS (4' MIN.) SHALL BE VERIFIED BY THE MANUFACTURER BASED ON THE PIPE CONFIGURATIONS SHOWN ON THESE PLANS AND LOCAL MUNICIPAL STANDARDS. FOR MANHOLES THAT ARE 20 FEET IN DEPTH AND GREATER, THE MINIMUM DIAMETER SHALL BE 5 FEET.
6. THE USE OF BRICK AND MORTAR TO ADJUST THE ELEVATION OF DRAINAGE OR SANITARY STRUCTURES IS PROHIBITED. ALL ELEVATION ADJUSTMENTS SHALL BE MADE USING EITHER GRADE RINGS OR A SYNTHETIC RISER.
7. ALL CONNECTIONS BETWEEN PRECAST DRAINAGE STRUCTURES AND NEW DRAINAGE PIPES SHALL BE A BOOTED CONNECTION.
8. CONTRACTOR IS RESPONSIBLE FOR IDENTIFYING AND ADJUSTING ALL CURB STOPS, WATER VALVES, MANHOLES, & DRAINAGE STRUCTURES WITHIN THE PROJECT LIMITS TO TO THE FINAL GRADE ELEVATION. PAYMENT FOR ADJUSTMENTS SHALL BE PAID FOR UNDER THE APPROPRIATE CONTRACT PAY ITEMS IN ACCORDANCE WITH THE 2011 VTRANS STANDARD SPECIFICATIONS FOR CONSTRUCTION.

PROJECT NAME: HARTLAND  
 PROJECT NUMBER: 57790.00

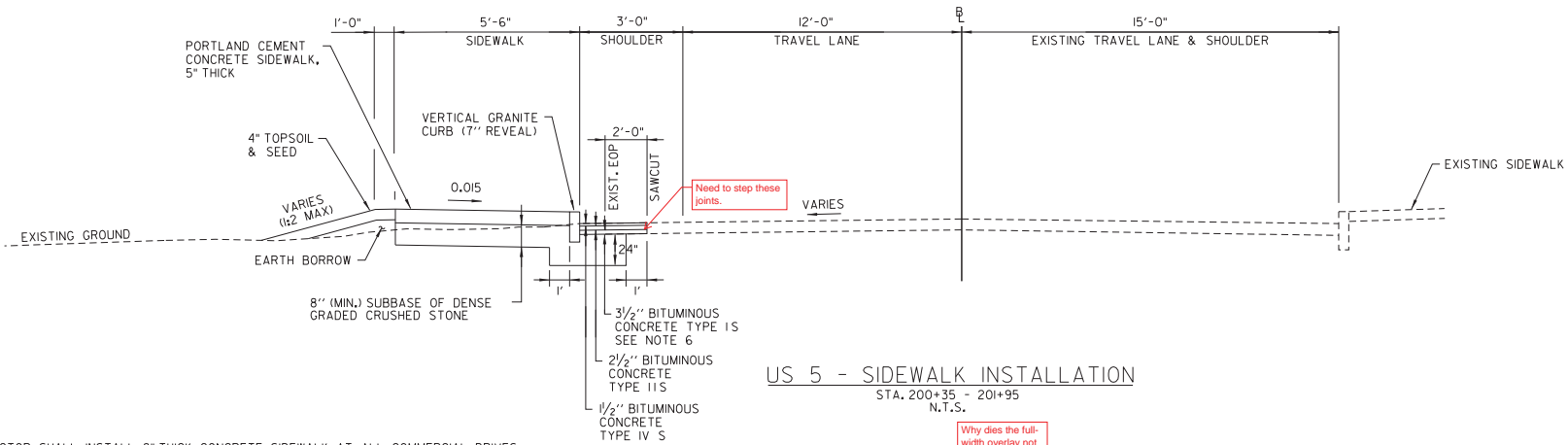
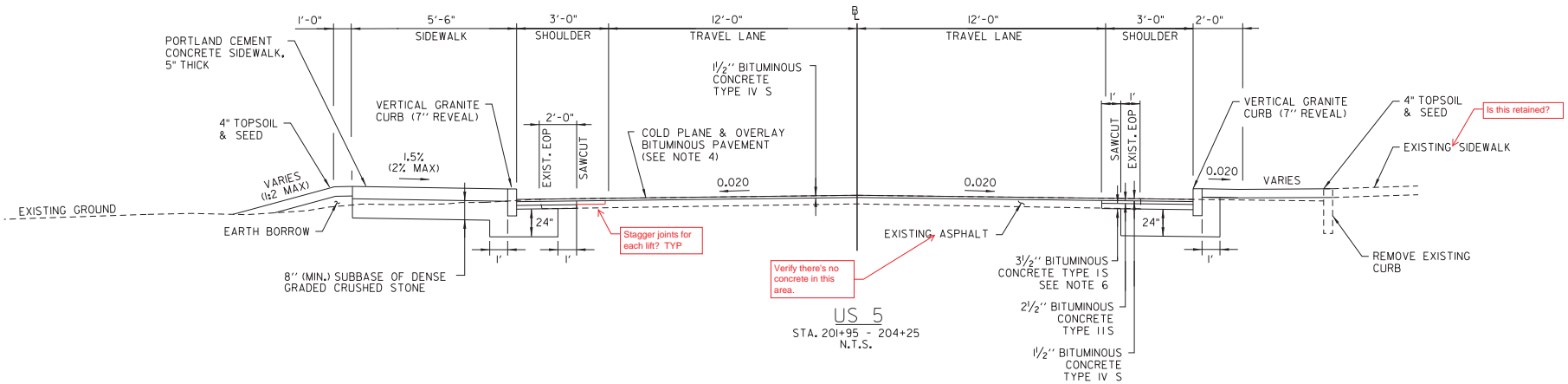
FILE NAME: 57790NOTES.dgn  
 PROJECT LEADER: J.D. SALADINO  
 DESIGNED BY: O.M. DARISSE  
 NOTES SHEET

PLOT DATE: 4/22/2016  
 DRAWN BY: O.M. DARISSE  
 CHECKED BY: D.M. PECK  
 SHEET 3 OF 31



MATERIAL TOLERANCES	
MATERIAL ITEM	THICKNESS TOLERANCE
PAVEMENT (FULL DEPTH)	± 1/4" (TOTAL THICKNESS)
SUBBASE	1/2"

# TYPICAL SECTIONS



## NOTES

- CONTRACTOR SHALL INSTALL 8" THICK CONCRETE SIDEWALK AT ALL COMMERCIAL DRIVES.
- SIDEWALK RAMP DETECTABLE WARNING SURFACES SHALL BE TRUNCATED DOME DETECTABLE WARNING CAST IRON PLATES FROM THE VTRANS APPROVED PRODUCTS LIST.
- SAWCUT OF EXISTING PAVEMENT, CONCRETE BASE, OR SIDEWALK SHALL BE INCIDENTAL TO ALL EXCAVATION ITEMS (TYP).
- DEPTH OF COLD PLANING SHALL VARY FROM 1" AT CENTERLINE TO AS MUCH AS 3.5" ALONG CURB LINES TO ALLOW FOR PROPER SIDEWALK CROSS SLOPE AND CURB REVEAL. CONTRACTOR TO ADJUST AS NEEDED.
- VERTICAL GRANITE CURB DIMENSIONS SHALL ADHERE TO VERMONT AGENCY OF TRANSPORTATION STANDARD DRAWING C-10.
- CONTRACTOR SHALL ADJUST THICKNESS OF TYPE I S PAVEMENT (BASE COURSE) INSTALLED TO MATCH THE BOTTOM OF THE EXISTING PAVEMENT.

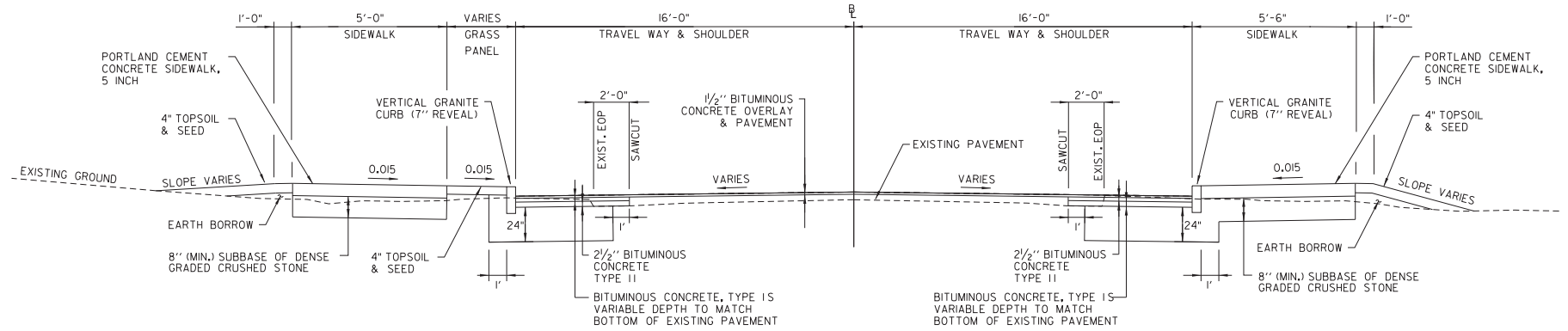


PROJECT NAME: HARTLAND  
PROJECT NUMBER: 57790.00

FILE NAME: 577901typ.dgn  
PROJECT LEADER: J.D. SALADINO  
DESIGNED BY: O.M. DARISSE  
TYPICAL SECTIONS (1 OF 4)

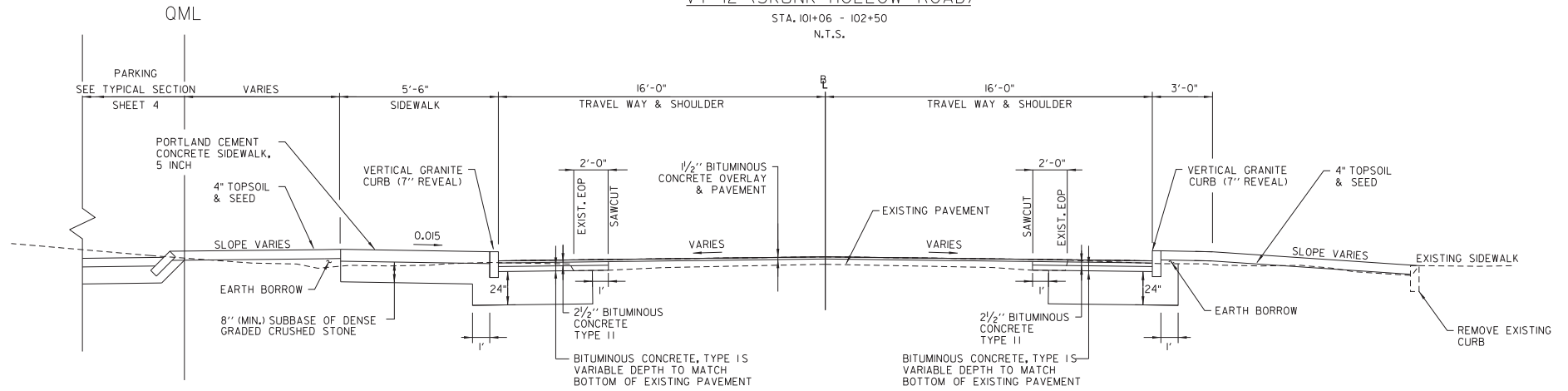
PLOT DATE: 4/22/2016  
DRAWN BY: O.M. DARISSE  
CHECKED BY: D.M. PECK  
SHEET 4 OF 31

# TYPICAL SECTIONS



## VT 12 (SKUNK HOLLOW ROAD)

STA. 101+06 - 102+50  
 N.T.S.



## US 5 NORTH

N.T.S.

### NOTES

- CONTRACTOR SHALL INSTALL 8" THICK CONCRETE SIDEWALK AT ALL COMMERCIAL DRIVES.
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- DEPTH OF COLD PLANING SHALL VARY FROM 1" AT CENTERLINE TO AS MUCH AS 3.5" ALONG CURB LINES TO ALLOW FOR PROPER SIDEWALK CROSS SLOPE AND CURB REVEAL. CONTRACTOR TO ADJUST AS NEEDED.
- VERTICAL GRANITE CURB DIMENSIONS SHALL ADHERE TO VERMONT AGENCY OF TRANSPORTATION STANDARD DRAWING C-10.
- CONTRACTOR SHALL ADJUST THICKNESS OF TYPE 1S PAVEMENT (BASE COURSE) INSTALLED TO MATCH THE BOTTOM OF THE EXISTING PAVEMENT.

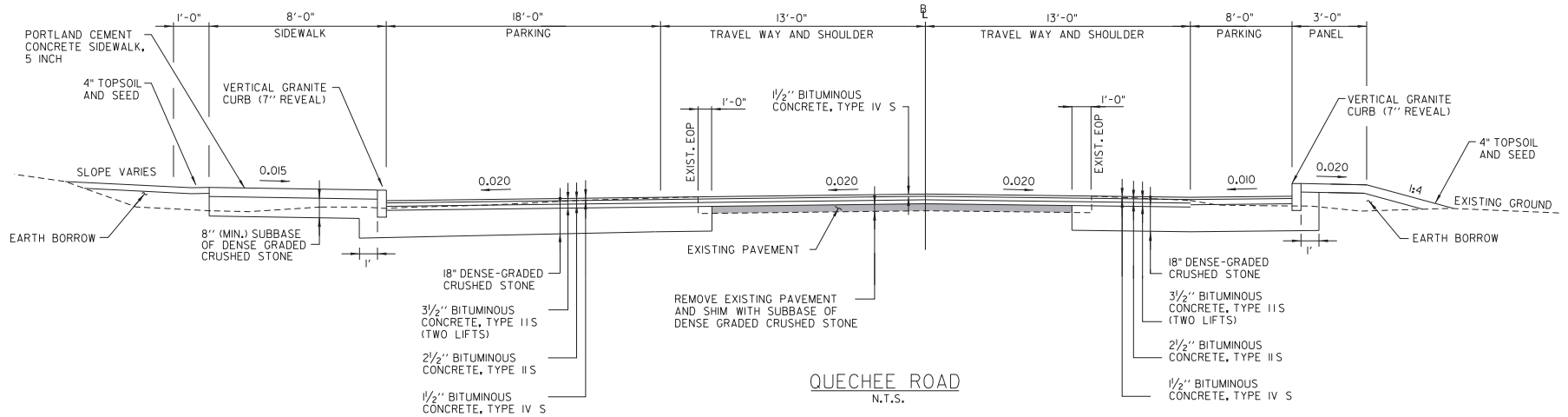
PROJECT NAME: HARTLAND  
 PROJECT NUMBER: 57790.00



FILE NAME: 57790typ.dgn  
 PROJECT LEADER: J.D. SALADINO  
 DESIGNED BY: O.M. DARISSE

PLOT DATE: 4/22/2016  
 DRAWN BY: O.M. DARISSE  
 CHECKED BY: D.M. PECK  
 SHEET 5 OF 31

# TYPICAL SECTIONS



## NOTES

1. CONTRACTOR SHALL INSTALL 8" THICK CONCRETE SIDEWALK AT ALL COMMERCIAL DRIVES.
2. SIDEWALK RAMP DETECTABLE WARNING SURFACES SHALL BE TRUNCATED DOME DETECTABLE WARNING CAST IRON PLATES FROM THE VTRANS APPROVED PRODUCTS LIST.
3. SAWCUT OF EXISTING PAVEMENT, CONCRETE BASE, OR SIDEWALK SHALL BE INCIDENTAL TO ALL EXCAVATION ITEMS (TYP).
4. DEPTH OF COLD PLANING SHALL VARY FROM 1" AT CENTERLINE TO AS MUCH AS 3.5" ALONG CURB LINES TO ALLOW FOR PROPER SIDEWALK CROSS SLOPE AND CURB REVEAL. CONTRACTOR TO ADJUST AS NEEDED.
5. VERTICAL GRANITE CURB DIMENSIONS SHALL ADHERE TO VERMONT AGENCY OF TRANSPORTATION STANDARD DRAWING C-10.
6. CONTRACTOR SHALL ADJUST THICKNESS OF TYPE I S PAVEMENT (BASE COURSE) INSTALLED TO MATCH THE BOTTOM OF THE EXISTING PAVEMENT.

PROJECT NAME: HARTLAND  
PROJECT NUMBER: 57790.00

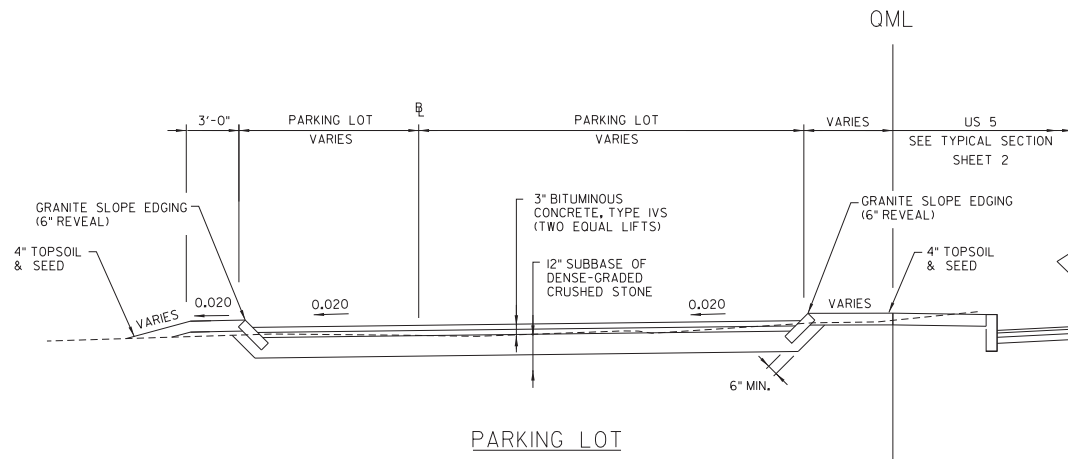
FILE NAME: 57790typ.dgn  
PROJECT LEADER: J.D. SALADINO  
DESIGNED BY: O.M. DARISSE  
TYPICAL SECTIONS (3 OF 4)

PLOT DATE: 4/22/2016  
DRAWN BY: O.M. DARISSE  
CHECKED BY: D.M. PECK  
SHEET 6 OF 31



MATERIAL TOLERANCES	
MATERIAL ITEM	THICKNESS TOLERANCE
PAVEMENT (FULL DEPTH)	± 1/4" (TOTAL THICKNESS)
SUBBASE	1/2"
SAND BORROW	1"

# TYPICAL SECTIONS



## NOTES

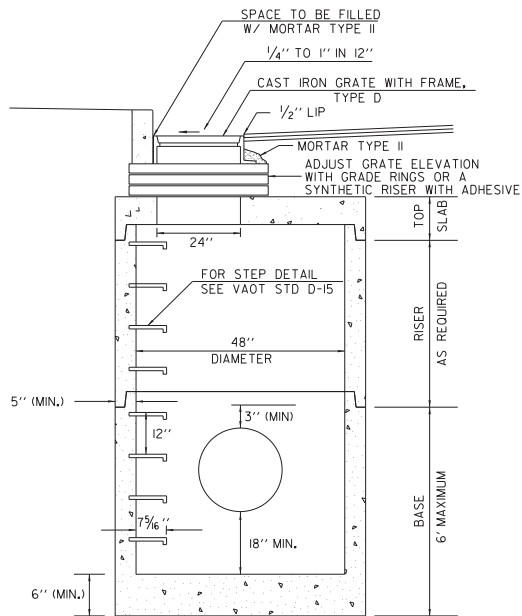
- CONTRACTOR SHALL INSTALL 8" THICK CONCRETE SIDEWALK AT ALL COMMERCIAL DRIVES.
- SIDEWALK RAMP DETECTABLE WARNING SURFACES SHALL BE TRUNCATED DOME DETECTABLE WARNING CAST IRON PLATES FROM THE VTRANS APPROVED PRODUCTS LIST.
- SAWCUT OF EXISTING PAVEMENT, CONCRETE BASE, OR SIDEWALK SHALL BE INCIDENTAL TO ALL EXCAVATION ITEMS (TYP).
- DEPTH OF COLD PLANING SHALL VARY FROM 1" AT CENTERLINE TO AS MUCH AS 3.5" ALONG CURB LINES TO ALLOW FOR PROPER SIDEWALK CROSS SLOPE AND CURB REVEAL. CONTRACTOR TO ADJUST AS NEEDED.
- VERTICAL GRANITE CURB DIMENSIONS SHALL ADHERE TO VERMONT AGENCY OF TRANSPORTATION STANDARD DRAWING C-10.
- CONTRACTOR SHALL ADJUST THICKNESS OF TYPE 1S PAVEMENT (BASE COURSE) INSTALLED TO MATCH THE BOTTOM OF THE EXISTING PAVEMENT.

PROJECT NAME: HARTLAND  
PROJECT NUMBER: 57790.00

FILE NAME: 57790typ.dgn  
PROJECT LEADER: J.D. SALADINO  
DESIGNED BY: O.M. DARISSE  
TYPICAL SECTIONS (4 OF 4)

PLOT DATE: 4/22/2016  
DRAWN BY: O.M. DARISSE  
CHECKED BY: D.M. PECK  
SHEET 7 OF 31

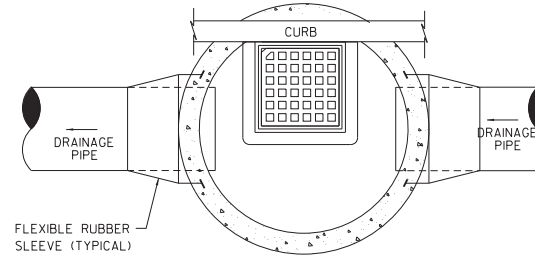




ELEVATION VIEW

TYPICAL PRECAST DROP INLET INSTALLED IN ROADWAY

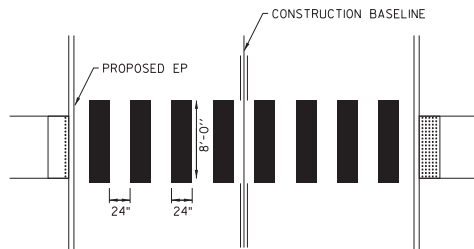
N.T.S.



DROP INLET PLAN VIEW

PRECAST CONCRETE DROP INLET AND MANHOLE NOTES:

1. PRECAST CONCRETE SECTIONS SHALL CONFORM TO THE STANDARD SPECIFICATIONS AND ASTM C-478.
2. MINIMUM CONCRETE COMPRESSIVE STRENGTH: 4,000 PSIA 28-DAYS
3. STEEL REINFORCING SHALL CONFORM TO ASTM A185 OR A82 FOR HS25 LOADING.
4. MANHOLE STEPS SHALL BE 14" WIDE STEEL REINFORCED COPOLYMER POLYPROPYLENE PLASTIC CONFORMING TO ASTM C-478 AND SHALL BE CAST INTO MANHOLE SECTIONS BY THE PRECAST CONCRETE MANUFACTURER.
5. FACE OF PIPE SHALL NOT PROJECT MORE THAN 2" OR LESS THAN 1" FROM INSIDE WALL OF STRUCTURE.
6. ALL STRUCTURES WITH MULTIPLE PIPES SHALL HAVE A MINIMUM OF 12" OF OUTSIDE SURFACE BETWEEN HOLES, NO MORE THAN 75% OF A HORIZONTAL CROSS-SECTION SHALL BE HOLES, AND THERE SHALL BE NO HOLES CLOSER THAN 3" TO JOINTS.
7. FITTING FRAME TO FINAL GRADE MAY BE DONE WITH A SYNTHETIC RISER OR WITH PRECAST CONCRETE GRADE RINGS OF APPROPRIATE THICKNESS (3 COURSES MAX).
8. ALL PIPE INVERTS AND PENETRATION ANGLES SHALL BE FIELD VERIFIED PRIOR TO PRECASTING.
9. PRECAST SECTIONS SHALL HAVE A TONGUE AND GROOVE JOINT AND BE ASSEMBLED USING A BUTYL RUBBER OR APPROVED EQUAL SEALANT.
10. PROVIDE FLEXIBLE RUBBER SLEEVES CONFORMING TO ASTM C-923, RESILIENT, OF SIZE REQUIRED, FOR EACH PIPE CONNECTING TO STRUCTURE. SLEEVES SHALL BE CAST INTO PRECAST STRUCTURE BY THE MANUFACTURER FOR ALL PIPE PENETRATIONS.
11. DROP INLET GRATE ORIENTATION SHALL BE IN ACCORDANCE WITH STANDARD DRAWING D-15 FOR TYPE D GRATES.
12. INSTALLATION OF DROP INLETS OVER EXISTING PIPES SHALL INCLUDE CLEAN CUTTING OF EXISTING PIPES, PROVIDING AN EXTENSION PIPE OF SIMILAR MATERIAL AND SIZE AS THE EXISTING PIPE, COUPLINGS REQUIRED FOR THE CONNECTION BETWEEN THE EXTENSION PIPE AND THE EXISTING PIPE, AND INSTALLING FLEXIBLE RUBBER SLEEVES AS SHOWN IN DETAILS PROVIDED ON THIS SHEET.
13. PAYMENT FOR INSTALLATION OF THE DROP INLETS SHALL BE MADE UNDER PRECAST REINFORCED CONC. DROP INLET WITH CAST IRON GRATE (ITEM 604J8).



CROSSWALK MARKING DETAIL

ADJUST SPACING (12" TO 24") TO AVOID WHEEL PATHS.

BLOCKS SHOULD BE INSTALLED PARALLEL TO TRAFFIC FLOW. FOR SKEWED CROSSINGS, OFFSET BLOCKS LATERALLY AS NEEDED.

CROSSWALK MARKINGS SHALL CONFORM TO SECTION 646.06 OF THE VTRANS STANDARD SPECIFICATIONS FOR CONSTRUCTION, DATED 2011.

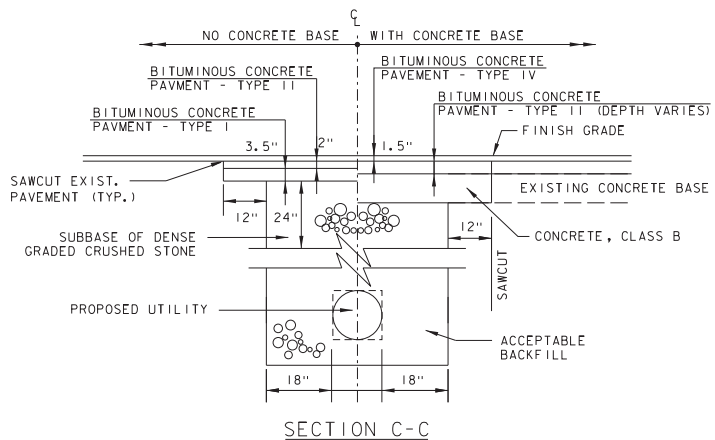
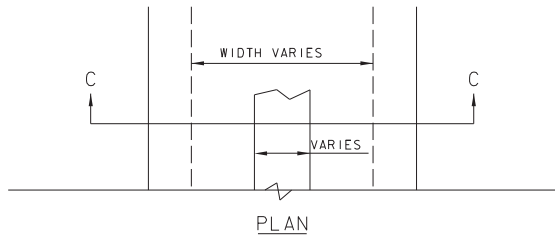


PARALLEL PARKING MARK DETAIL

PROJECT NAME: HARTLAND	PLOT DATE: 4/22/2016
PROJECT NUMBER: 57790.00	DRAWN BY: O.M. DARISSE
FILE NAME: 57790det.dgn	CHECKED BY: D.M. PECK
PROJECT LEADER: J.J. SALADINO	SHEET 8 OF 31
DESIGNED BY: O.M. DARISSE	
DETAILS SHEET (1 OF 2)	

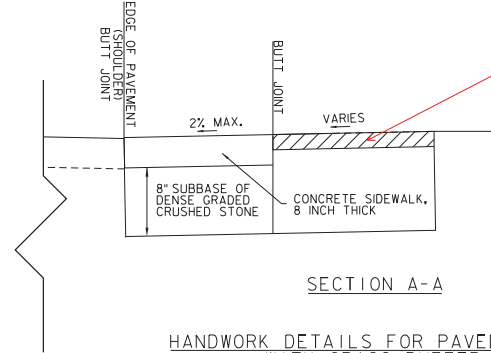
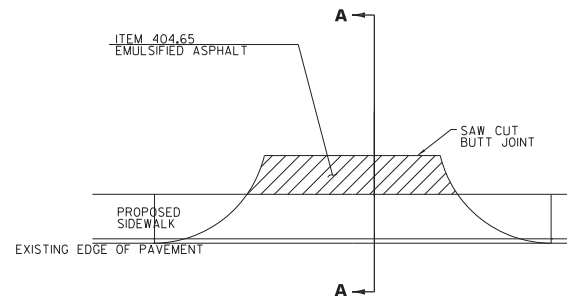






PAVEMENT ROADWAY UTILITY TRENCH  
N.T.S.

What utility trenches are there in this project? If this is intended for the drainage it should be labeled as such.



HANDWORK DETAILS FOR PAVED DRIVE  
WITH GRASS BUFFER

Consider explicitly labeling this work as hand-placed BCP?

PROJECT NAME:	HARTLAND	FILE NAME:	57790det.dgn	PLOT DATE:	4/22/2016
PROJECT NUMBER:	57790.00	PROJECT LEADER:	J.D. SALADINO	DRAWN BY:	O.M. DARISSE
		DESIGNED BY:	O.M. DARISSE	CHECKED BY:	D.M. PECK
		DETAILS SHEET (2 OF 2)		SHEET	9 OF 31



# QUANTITY SHEET I

SUMMARY OF ESTIMATED QUANTITIES										TOTALS		DESCRIPTIONS				DETAILED SUMMARY OF QUANTITIES		
										GRAND TOTAL	FINAL	UNIT	ITEMS	ITEM NUMBER	ROUND	QUANTITIES	UNIT	ITEMS
										1		LS	CLEARING AND GRUBBING, INCLUDING INDIVIDUAL TREES AND STUMPS	201.10				
										1340	1340	CY	COMMON EXCAVATION	203.15				
										15	15	CY	SOLID ROCK EXCAVATION	203.16				
										210	210	CY	EXCAVATION OF SURFACES AND PAVEMENTS	203.28				
										2300	2300	SY	COLD PLANING, BITUMINOUS PAVEMENT	210.10				
										780	780	CY	SUBBASE OF DENSE GRADED CRUSHED STONE	301.35				
										9	9	CWT	EMULSIFIED ASPHALT	404.65				
										585	585	TON	BITUMINOUS CONCRETE PAVEMENT (PG 58-28)	406.25				
										1	1	LU	PRICE ADJUSTMENT, ASPHALT CEMENT (N.A.B.I.)	406.50				
										65	65	LF	15" RCP CLASS III	601.0810				
										130	130	LF	15" CPEP(SL)	601.2610				
										3	3	EACH	PRECAST REINFORCED CONCRETE DROP INLET WITH CAST IRON GRATE	604.18				
										150	150	MGAL	DUST CONTROL WITH WATER	609.10				
										200	200	LF	GRANITE SLOPE EDGING	616.20				
										980	980	LF	VERTICAL GRANITE CURB	616.21				
										280	280	LF	REMOVING AND RESETTING CURB	616.40				
										480	480	LF	REMOVAL OF EXISTING CURB	616.41				
										520	520	SY	PORTLAND CEMENT CONCRETE SIDEWALK, 5 INCH	618.10				
										70	70	SY	PORTLAND CEMENT CONCRETE SIDEWALK, 8 INCH	618.11				
										85	85	SF	DETECTABLE WARNING SURFACE	618.30				
										65	65	LF	REMOVAL AND DISPOSAL OF GUARDRAIL	621.80				
										128	128	HR	UNIFORMED TRAFFIC OFFICERS	630.10				
										260	260	HR	FLAGGERS	630.15				
											1	LS	FIELD OFFICE, ENGINEERS	631.10				
											1	LS	TESTING EQUIPMENT, CONCRETE	631.16				
												LS	TESTING EQUIPMENT, BITUMINOUS	631.17				
											3000	DL	FIELD OFFICE TELEPHONE (N.A.B.I.)	631.26				
										1	1	LS	MOBILIZATION/DEMOBILIZATION	635.11				
										1	1	LS	TRAFFIC CONTROL	641.10				
										1500	1500	LF	DURABLE 4 INCH WHITE LINE	646.400				
										1600	1600	LF	DURABLE 4 INCH YELLOW LINE	646.410				
										85	85	LF	DURABLE 24 INCH STOP BAR	646.480				
										220	220	LF	DURABLE CROSSWALK MARKING	646.500				
											260	SY	GEOTEXTILE FOR SILT FENCE	649.51				
											55	LB	SEED	651.15				
											430	LB	FERTILIZER	651.18				
											2	TON	AGRICULTURAL LIMESTONE	651.20				
											2	TON	HAY MULCH	651.25				
										230	230	CY	TOPSOIL	651.35				
											15	CY	VEHICLE TRACKING PAD	653.35				

Seems low - 2 Flaggers for 10 hr days = 13 days for work to be performed?

PROJECT NAME: HARTLAND PROJECT NUMBER: 57790.00	PLOT DATE: 4/22/2016 DRAWN BY: O.DARISSE
FILE NAME: 57790qs.dgn PROJECT LEADER: J.D. SALADINO	CHECKED BY: D.M. PECK
DESIGNED BY: O.DARISSE	SHEET 10 OF 31

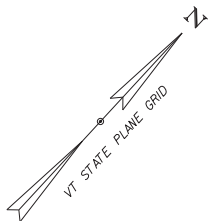


# QUANTITY SHEET 2

SUMMARY OF ESTIMATED QUANTITIES										TOTALS			DESCRIPTIONS				DETAILED SUMMARY OF QUANTITIES				
										ROADWAY	EROSION CONTROL	FULL C/E ITEMS	GRAND TOTAL	FINAL	UNIT	ITEMS	ITEM NUMBER	ROUND	QUANTITIES	UNIT	ITEMS
										700			700		LF	PROJECT DEMARCATION FENCE	653.55				
										14			14		SF	TRAFFIC SIGNS, TYPE A	675.20				
										240			240		LF	SQUARE TUBE SIGN POST AND ANCHOR	675.341				
										61			61		EACH	REMOVING SIGNS	675.50				
										47			47		EACH	ERECTING SALVAGED SIGNS	675.60				
										1			1		EACH	SETTING SALVAGED POSTS	675.61				
										1			1		LS	SPECIAL PROVISION (RELOCATE TOWN MONUMENT)	900.645				

<b>PROJECT NAME:</b> HARTLAND		<b>PLOT DATE:</b> 4/22/2016	
<b>PROJECT NUMBER:</b> 57790.00		<b>DRAWN BY:</b> O.DARISSE	
<b>FILE NAME:</b> 57790qs.dgn	<b>PROJECT LEADER:</b> J.D. SALADINO	<b>CHECKED BY:</b> D.M. PECK	<b>SHEET</b> 11 <b>OF</b> 31
<b>DESIGNED BY:</b> O.DARISSE		<b>QUANTITY SHEET (2 OF 2)</b>	





**US ROUTE 5 - QUECHEE ROAD**

POINT TYPE	STATION	NORTHING	EASTING
POB	199+60.00	378922.3789	1667048.5900
PC	200+00.00	378961.9693	1667057.4170
PI	200+11.83	378973.5033	1667060.0266
PT	200+23.65	378985.0633	1667062.4996
PC	201+44.33	379103.0752	1667087.7360
PI	201+63.12	379121.4500	1667091.6655
PT	201+81.91	379139.8538	1667095.4568
PC	204+77.19	379429.0638	1667155.0358
PI	206+10.19	379559.3212	1667181.8711
PT	207+34.61	379680.9248	1667127.9895
POE	207+75.00	379717.8513	1667111.6250

**VT 12 (SKUNK HOLLOW ROAD) - US ROUTE 5**

POINT TYPE	STATION	NORTHING	EASTING
POB	100+00.00	379542.6048	1666947.0351
PC	100+60.08	379509.3843	1666997.0803
PI	100+92.43	379491.4671	1667024.0289
PT	101+24.75	379475.3491	1667052.0779
PC	101+74.82	379450.4033	1667095.4874
PI	103+07.27	379384.4142	1667210.3250
PT	104+30.63	379400.0002	1667341.8524
POE	105+00.00	379408.1639	1667410.7448

**PROPOSED PARKING LOT / DRIVE**

POINT TYPE	STATION	NORTHING	EASTING
POB	3+00.00	379500.7136	1667163.3270
PC	3+30.12	379486.2469	1667189.7443
PI	3+54.91	379474.3315	1667211.4902
PT	3+78.73	379473.9677	1667236.2805
POE	3+82.24	379473.9111	1667239.7992

CURVE #4  
 N = 379491.47  
 E = 1667024.03  
 R = 1000.00'  
 $\Delta = 3^\circ 42' 21''$   
 Dc = 5' 43' 46"  
 L = 64.68'  
 T = 32.35'  
 E = 0.52'

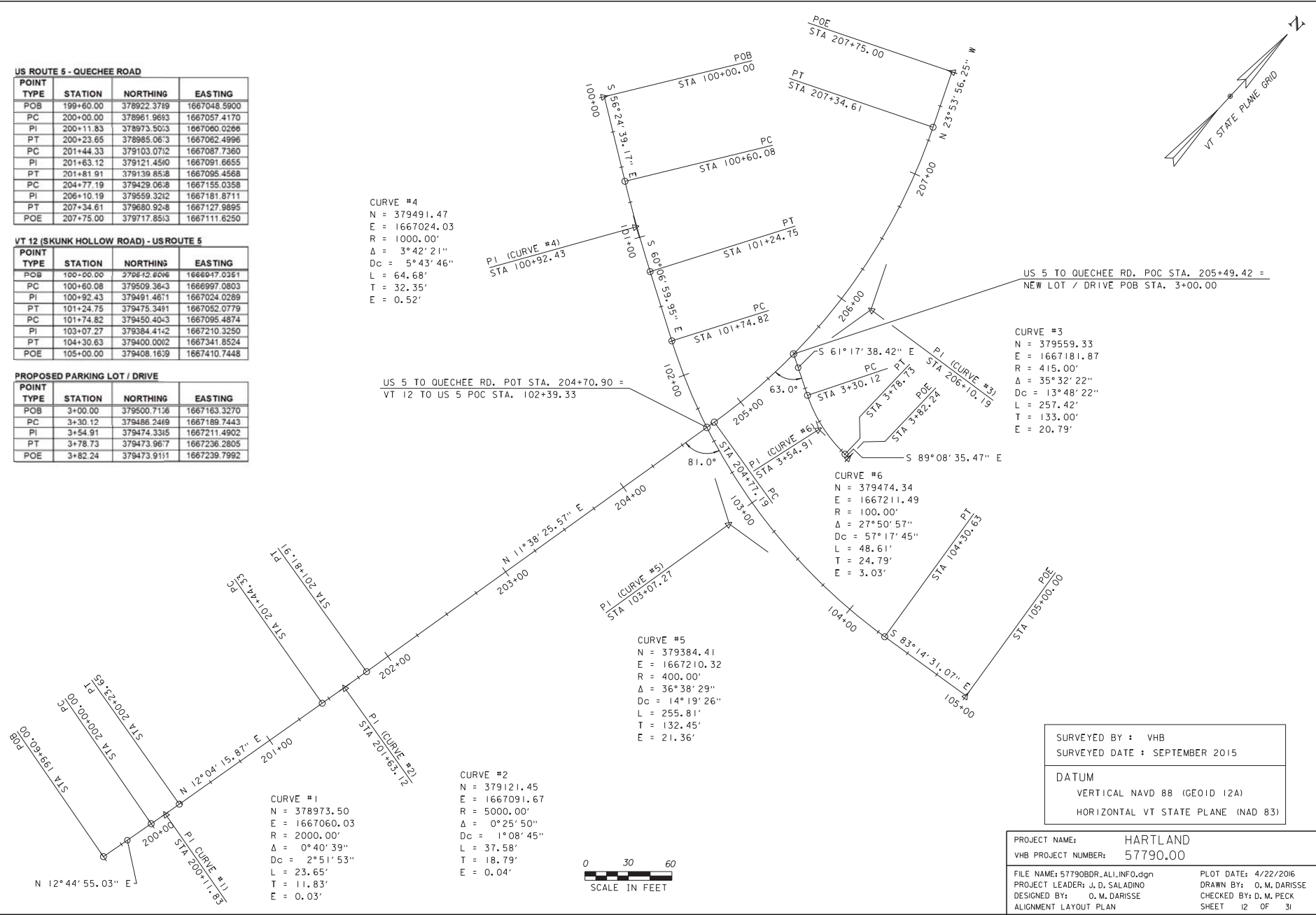
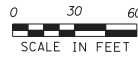
CURVE #3  
 N = 379559.33  
 E = 1667181.87  
 R = 415.00'  
 $\Delta = 35^\circ 32' 22''$   
 Dc = 13' 48' 22"  
 L = 257.42'  
 T = 133.00'  
 E = 20.79'

CURVE #6  
 N = 379474.34  
 E = 1667211.49  
 R = 100.00'  
 $\Delta = 27^\circ 50' 57''$   
 Dc = 57' 17' 45"  
 L = 48.61'  
 T = 24.79'  
 E = 3.03'

CURVE #5  
 N = 379384.41  
 E = 1667210.32  
 R = 400.00'  
 $\Delta = 36^\circ 38' 29''$   
 Dc = 14' 19' 26"  
 L = 255.81'  
 T = 132.45'  
 E = 21.36'

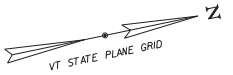
CURVE #2  
 N = 379121.45  
 E = 1667091.67  
 R = 5000.00'  
 $\Delta = 0^\circ 25' 50''$   
 Dc = 1' 08' 45"  
 L = 37.58'  
 T = 18.79'  
 E = 0.04'

CURVE #1  
 N = 378973.50  
 E = 1667060.03  
 R = 2000.00'  
 $\Delta = 0^\circ 40' 39''$   
 Dc = 2' 51' 53"  
 L = 23.65'  
 T = 11.83'  
 E = 0.03'



SURVEYED BY : VHB  
 SURVEYED DATE : SEPTEMBER 2015  
 DATUM  
 VERTICAL NAVD 88 (GEOID 12A)  
 HORIZONTAL VT STATE PLANE (NAD 83)

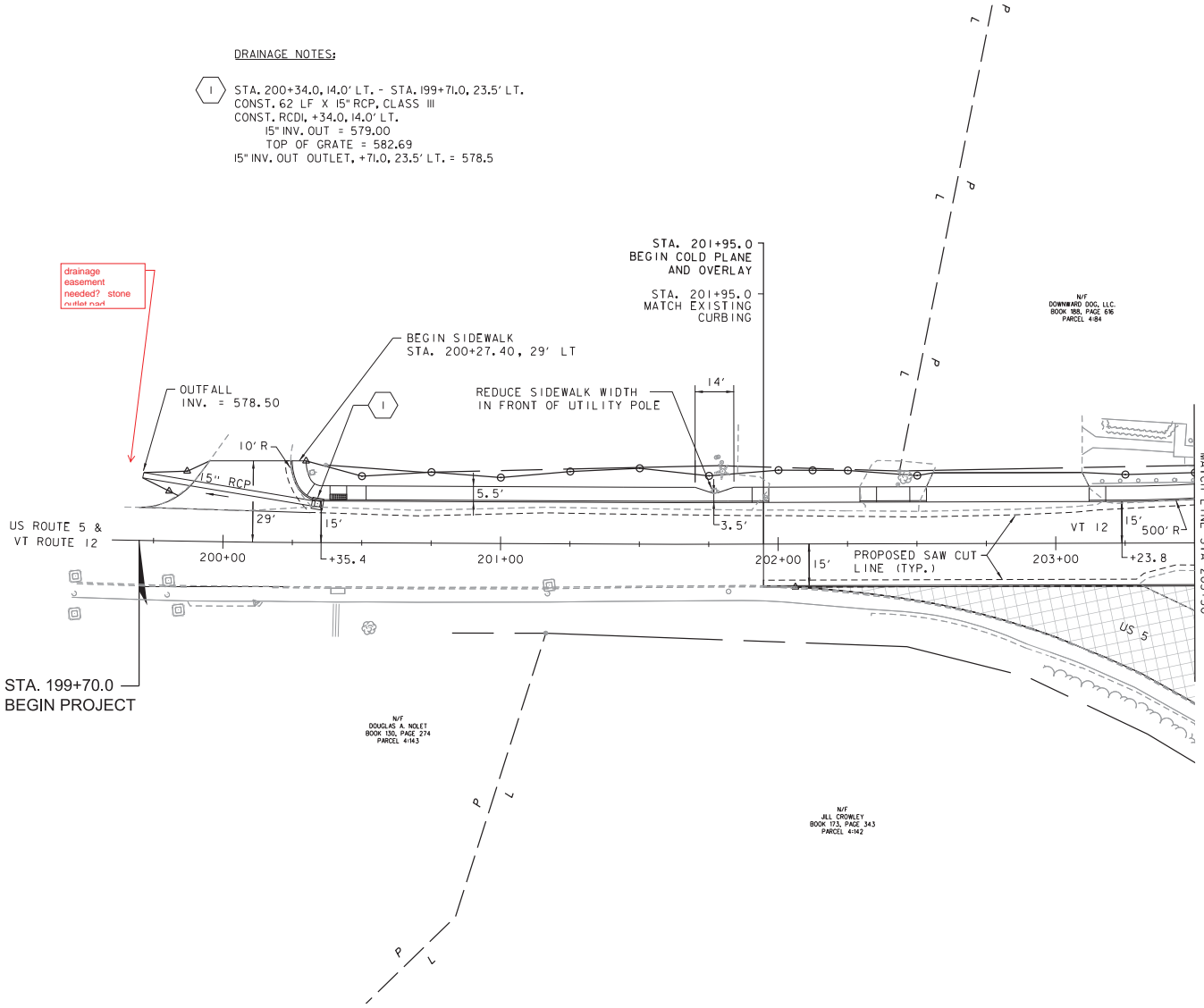
PROJECT NAME: HARTLAND  
 VHB PROJECT NUMBER: 57790.00  
 FILE NAME: 57790BDR.ALI.INFO.dgn  
 PROJECT LEADER: J. D. SALADINO  
 DESIGNED BY: O. M. DARISSE  
 ALIGNMENT LAYOUT PLAN  
 PLOT DATE: 4/22/2016  
 DRAWN BY: O. M. DARISSE  
 CHECKED BY: D. M. PECK  
 SHEET 12 OF 31



**DRAINAGE NOTES:**

① STA. 200+34.0, 14.0' LT. - STA. 199+71.0, 23.5' LT.  
 CONST. 62 LF X 15" RCP, CLASS III  
 CONST. RCDL +34.0, 14.0' LT.  
 15" INV. OUT = 579.00  
 TOP OF GRATE = 582.69  
 15" INV. OUT OUTLET, +71.0, 23.5' LT. = 578.5

drainage  
 easement  
 needed? stone  
 outlet exist



**CONSTRUCTION NOTES:**

- VERTICAL GRANITE CURB**
  - STA. 200+24.30 - 201+96.00, LT.
  - STA. 202+29.60 - 202+53.50, LT.
  - STA. 203+12.10 - 203+50.00, LT.
  - STA. 201+95.00 - 203+50.00, RT.
- PORTLAND CEMENT CONCRETE SIDEWALK, 5 INCH**
  - STA. 200+24.30 - 201+96.70, LT.
  - STA. 202+29.60 - 202+53.50, LT.
  - STA. 203+12.10 - 203+50.00, LT.
- PORTLAND CEMENT CONCRETE SIDEWALK, 8 INCH**
  - STA. 201+96.70 - 202+29.60, LT.
  - STA. 202+53.50 - 203+12.10, LT.
- DETECTABLE WARNING SURFACE**
  - STA. 200+41.30, LT.
- TYPE 2 DRIVE ENTRANCE, 5.5' WIDE**
  - STA. 202+14.00
  - STA. 202+83.00
- TYPE 6 SIDEWALK RAMP**
  - STA. 200+42.00, LT.
- EXCAVATION OF SURFACES AND PAVEMENTS**
  - STA. 202+00.00 - 203+50.00, LT.
- REMOVAL OF EXISTING CURB**
  - STA. 201+95.00 - 203+50.00, RT.
- REMOVAL AND DISPOSAL OF GUARDRAIL**
  - STA. 203+13.00 - 203+50.00, LT.

STA. 199+70.0  
 BEGIN PROJECT

N/F  
 DOUGLAS A. NOLET  
 BOOK 100, PAGE 224  
 PARCEL 4143

N/F  
 JILL CROWLEY  
 BOOK 173, PAGE 343  
 PARCEL 4192

N/F  
 DOWNWARD DOC, LLC  
 BOOK 88, PAGE 68  
 PARCEL 4181

EXISTING PAVEMENT SURFACE TO BE REMOVED



PROJECT NAME: HARTLAND	
PROJECT NUMBER: 57790.00	
FILE NAME: 57790BDR.AL1.dgn	PLOT DATE: 4/22/2016
PROJECT LEADER: J.D. SALADINO	DRAWN BY: O.M. DARISSE
DESIGNED BY: O.M. DARISSE	CHECKED BY: D.M. PECK
ROADWAY LAYOUT (1 OF 2)	SHEET 13 OF 31

**CONSTRUCTION NOTES:**

**VERTICAL GRANITE CURB**

STA. 101+06.00 - 206+47.10, LT.  
 STA. 102+53.00 - 103+30.10, LT.  
 STA. 101+20.70 - 101+40.80, RT.  
 STA. 101+79.30, RT. - 204+10.60, LT.  
 STA. 102+83.60 - 104+60.00, RT.  
 STA. 205+00.00 - 205+25.00, RT.  
 STA. 205+50.00 - 206+32.80, RT.  
 STA. 203+50.00 - 204+38.00, RT.  
 STA. 203+50.00 - 203+79.00, LT.

**GRANITE SLOPE EDGING**

STA. 3+14.90 - 3+82.20, LT.  
 STA. 3+26.40 - 3+75.30, RT.

**PORTLAND CEMENT CONCRETE SIDEWALK, 5 INCH**

STA. 101+06.00 - 206+43.90, LT.  
 STA. 102+53.00 - 103+30.10, LT.  
 STA. 101+20.70 - 101+40.80, RT.  
 STA. 101+79.30 - 102+10.00, RT.  
 STA. 102+83.60 - 104+60.00, RT.  
 STA. 203+90.20 - 204+37.20, RT.  
 STA. 203+50.00 - 204+38.00, RT.  
 STA. 203+50.00 - 203+78.90, LT.  
 STA. 204+10.50 - 204+50.00, LT.  
 STA. 205+00.00 - 205+25.00, RT.  
 STA. 205+50.00 - 206+32.80, RT.

**PORTLAND CEMENT CONCRETE SIDEWALK, 8 INCH**

STA. 203+78.90 - 204+10.50, LT.

**DETECTABLE WARNING SURFACE**

STA. 101+95.10, LT.  
 STA. 101+96.80, RT.  
 STA. 102+82.80, LT.  
 STA. 102+83.50, RT.  
 STA. 204+38.00, LT.  
 STA. 205+13.70, RT.

**REMOVAL OF EXISTING CURB**

STA. 101+20.60 - 101+40.80, RT.  
 STA. 101+79.30 - 102+09.20, RT.  
 STA. 103+21.50 - 104+60.00, RT.  
 STA. 101+06.00 - 101+47.10, LT.  
 STA. 204+15.60 - 204+50.00, LT.  
 STA. 205+48.20 - 205+94.70, LT.  
 STA. 205+16.70 - 205+59.10, LT.  
 STA. 205+16.70 - 205+76.60, RT.

**TYPE 2 DRIVE ENTRANCE, 5.5' WIDE**

STA. 203+94.00, LT.

**TYPE 6 SIDEWALK RAMP**

STA. 101+97.00, RT.  
 STA. 102+84.00, LT.  
 STA. 204+39.00, LT.  
 STA. 205+14.00, RT.

**TYPE 5 SIDEWALK RAMP**

STA. 101+96.00, LT.

**TYPE 1 SIDEWALK RAMP**

STA. 102+84.00, RT.

**EXCAVATION OF SURFACES AND PAVEMENTS**

STA. 205+35.00 - 206+50.00, RT.  
 STA. 102+50.00 - 103+75.00, LT.  
 STA. 102+60.00 - 104+60.00, RT.  
 STA. 203+50.00 - 204+00.00, RT.  
 STA. 205+00.00 - 206+00.00, LT.

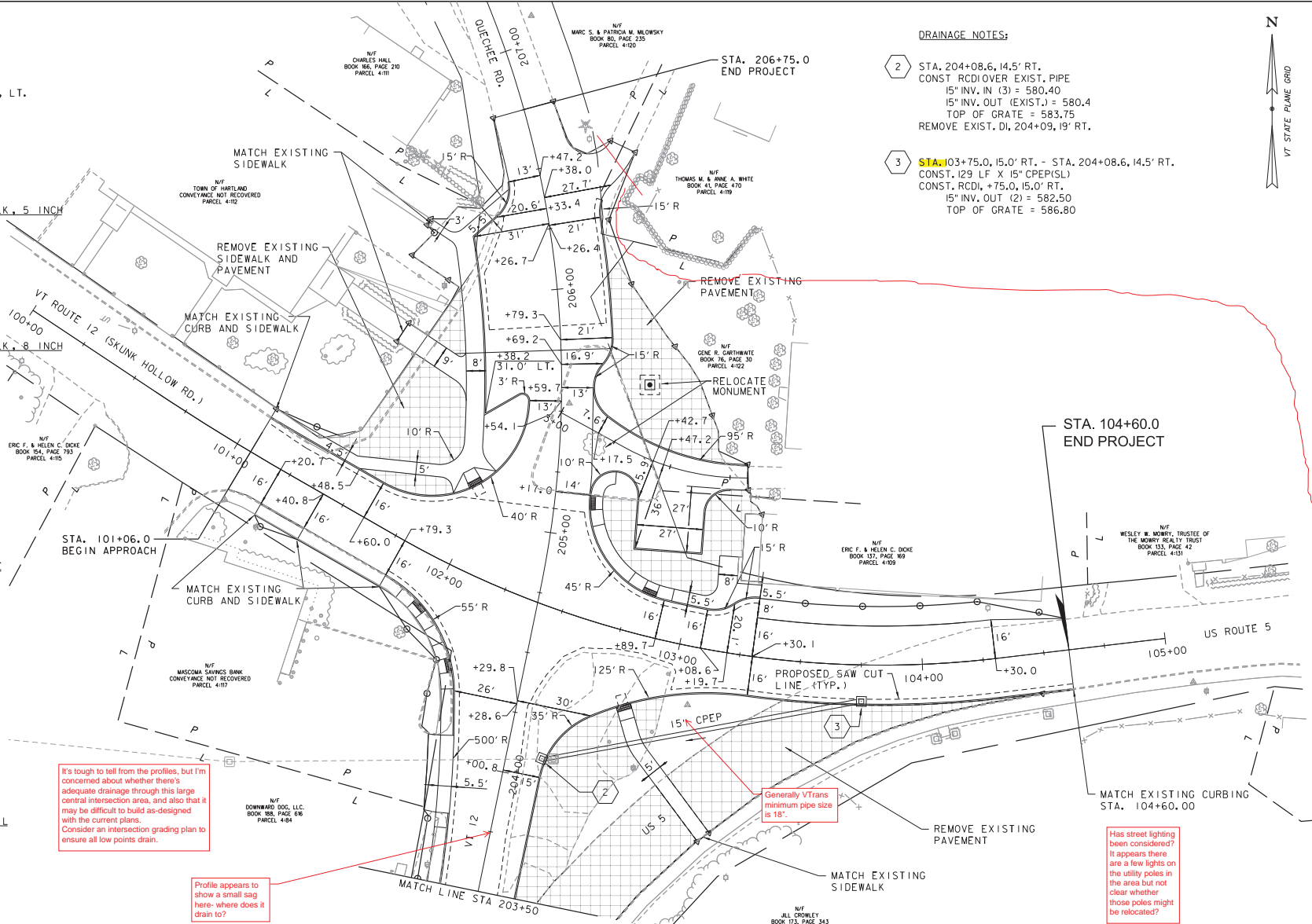
**REMOVAL AND DISPOSAL OF GUARDRAIL**

STA. 203+50.00 - 203+75.00, LT.

**DRAINAGE NOTES:**

2 STA. 204+08.6, 14.5' RT. CONST. RC/DI OVER EXIST. PIPE 15" INV. IN (3) = 580.40 15" INV. OUT (EXIST.) = 580.4 TOP OF GRATE = 583.75 REMOVE EXIST. DI, 204+09, 19' RT.

3 STA. 103+75.0, 15.0' RT. - STA. 204+08.6, 14.5' RT. CONST. 129 LF X 15" CPEP(SL) CONST. RC/DI, +75.0, 15.0' RT. 15" INV. OUT (2) = 582.50 TOP OF GRATE = 586.80



It's tough to tell from the profiles, but I'm concerned about whether there's adequate drainage through this large central intersection area, and also that it may be difficult to build as-designed with the current plans. Consider an intersection grading plan to ensure all low points drain.

Profile appears to show a small sag here - where does it drain to?

Generally VTrans minimum pipe size is 18".

Has street lighting been considered? It appears there are a few lights on the utility poles in the area but not clear whether those poles might be relocated?

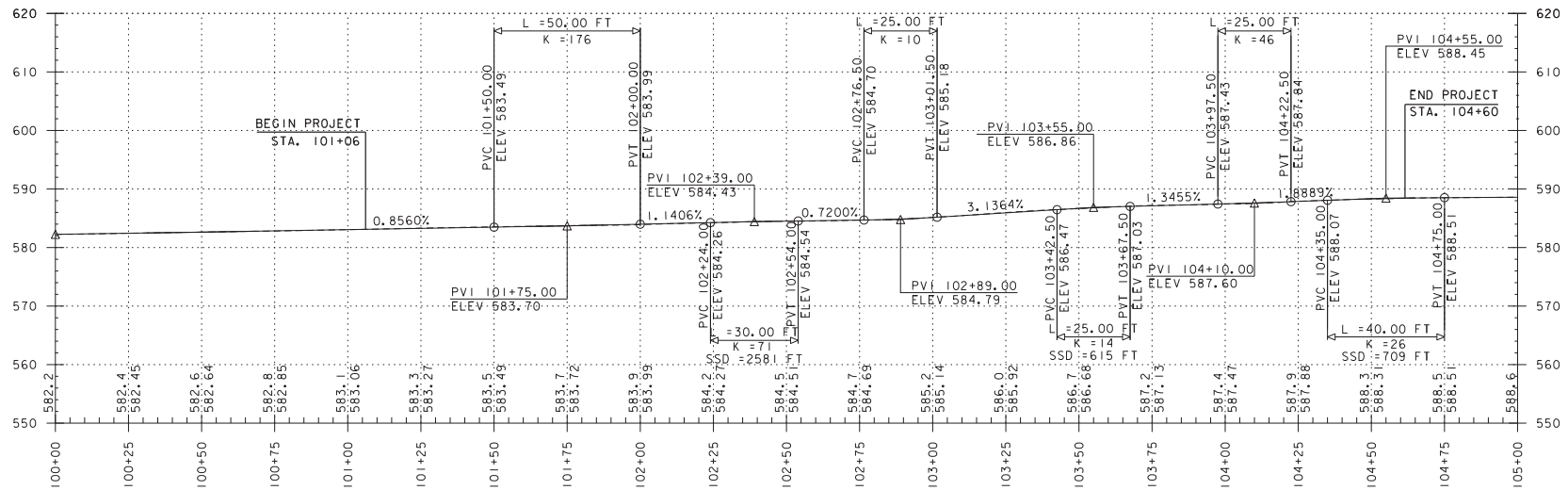
EXISTING PAVEMENT SURFACE TO BE REMOVED



PROJECT NAME:	HARTLAND	PLOT DATE:	4/22/2016
PROJECT NUMBER:	57790.00	DRAWN BY:	O.M. DARISSE
FILE NAME:	57790BDR_ALI.dgn	CHECKED BY:	D.M. PECK
PROJECT LEADER:	J.D. SALADINO	ROADWAY LAYOUT (2 OF 2)	SHEET 14 OF 31

# VT 12 (SKUNK HOLLOW ROAD) - US 5

Typical section indicates cross slope varies - banking diagram?



LINE	SURFACE	OFFSET
---	EXISTING	0.00
---	PROPOSED	0.00
Scaled	2.0000	Times Ver.
Scaled	1.0000	Times Hor.



EXISTING ELEVATIONS TO NEAREST TENTH  
PROPOSED ELEVATIONS TO NEAREST HUNDREDTH

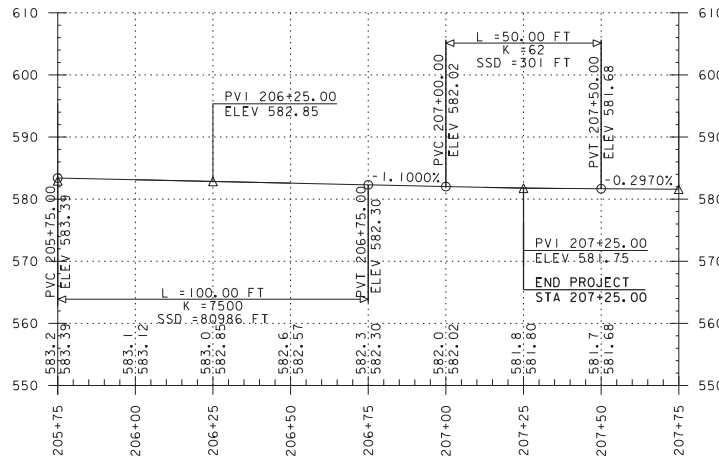
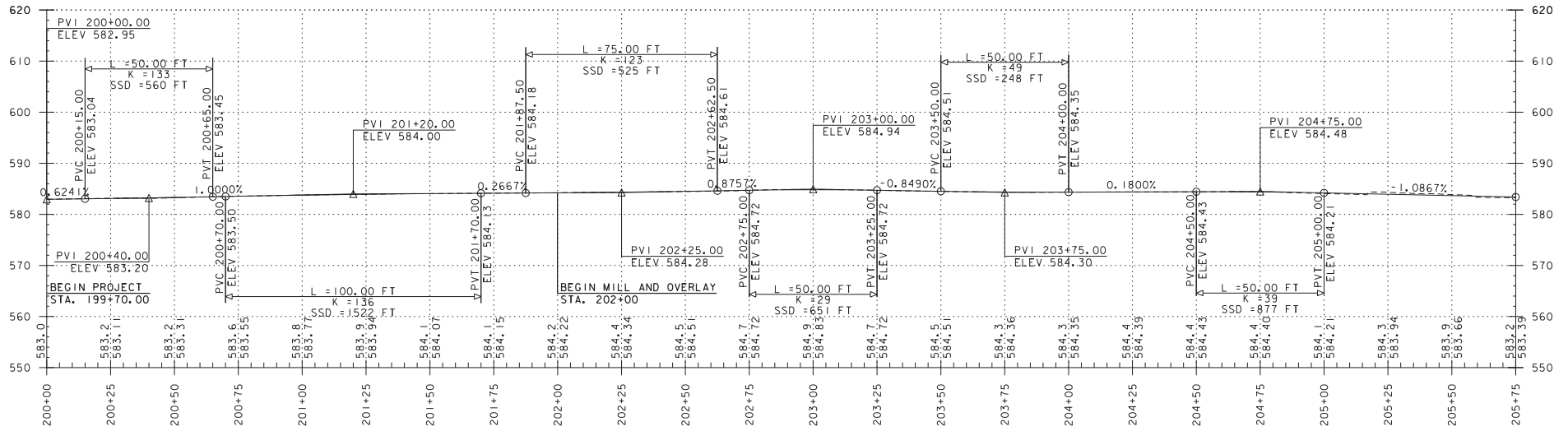


PROJECT NAME: HARTLAND  
PROJECT NUMBER: 57790.00

FILE NAME: 57790pro.dgn  
PROJECT LEADER: J.J. SALADINO  
DESIGNED BY: O.M. DARISSE  
VT 12/US 5 PROFILE

PLOT DATE: 4/22/2016  
DRAWN BY: O.M. DARISSE  
CHECKED BY: D.M. PECK  
SHEET 15 OF 31

# US ROUTE 5 - QUECHEE RD



LINE	SURFACE	OFFSET
---	EXISTING	0.00
---	PROPOSED	0.00
Scaled		2,000 Times Ver.
Scaled		1,000 Times Hor.



EXISTING ELEVATIONS TO NEAREST TENTH  
PROPOSED ELEVATIONS TO NEAREST HUNDREDTH



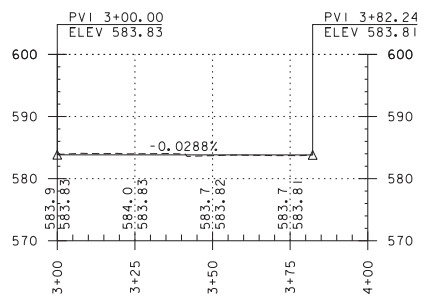
PROJECT NAME: HARTLAND  
PROJECT NUMBER: 57790.00

FILE NAME: 57790pro.dgn  
PROJECT LEADER: J.J. SALADINO  
DESIGNED BY: O.M. DARISSE  
US 5/QUECHEE RD PROFILE

PLOT DATE: 4/22/2016  
DRAWN BY: O.M. DARISSE  
CHECKED BY: D.M. PECK  
SHEET 16 OF 31



# PARKING LOT



LINE	SURFACE	OFFSET
----	EXISTING	0.00
----	PROPOSED	0.00
Scaled	2.0000	Times Ver.
Scaled	1.0000	Times Hor.



EXISTING ELEVATIONS TO NEAREST TENTH  
 PROPOSED ELEVATIONS TO NEAREST HUNDREDTH



PROJECT NAME:	HARTLAND	PLOT DATE:	4/22/2016
PROJECT NUMBER:	57790.00	PROJECT LEADER:	J.D. SALADINO
FILE NAME:	57790pro.dgn	DESIGNED BY:	O.M. DARISSE
		DRAWN BY:	O.M. DARISSE
		CHECKED BY:	D.M. PECK
		PARKING LOT PROFILE	SHEET 17 OF 31

**CONSTRUCTION NOTES:**

**DURABLE 4" SINGLE WHITE LINE**  
 STA. 200+46 - 203+50, LT.  
 STA. 200+46 - 203+50, RT.

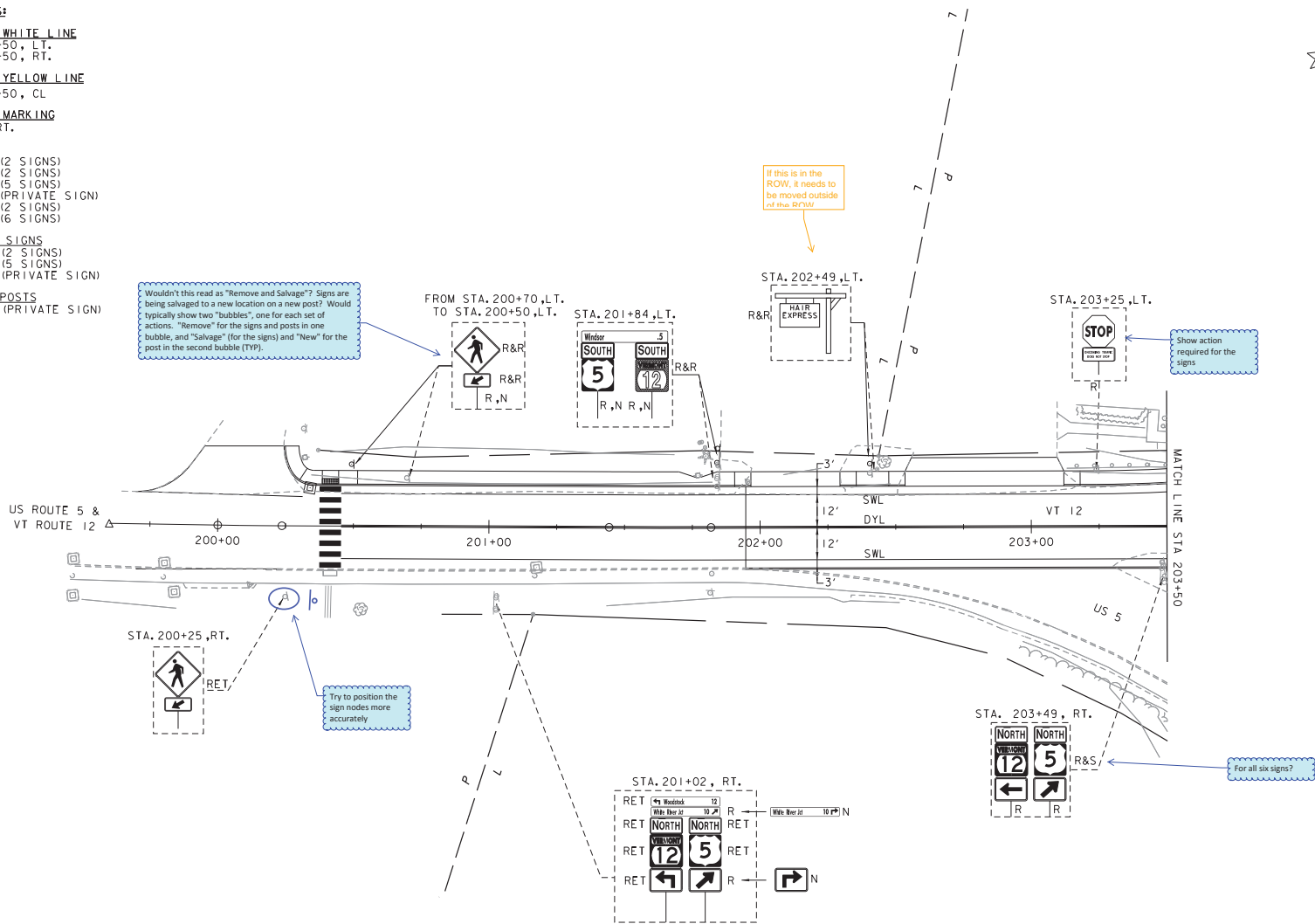
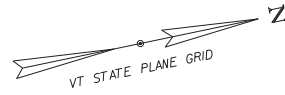
**DURABLE 4" DOUBLE YELLOW LINE**  
 STA. 200+46 - 203+50, CL

**DURABLE CROSSWALK MARKING**  
 STA. 200+42, LT.-RT.

**REMOVING SIGNS**  
 STA. 200+70, LT. (2 SIGNS)  
 STA. 201+02, RT. (2 SIGNS)  
 STA. 201+84, LT. (5 SIGNS)  
 STA. 202+49, LT. (PRIVATE SIGN)  
 STA. 203+25, LT. (2 SIGNS)  
 STA. 203+49, RT. (6 SIGNS)

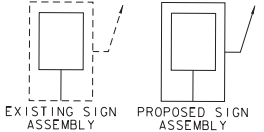
**ERECTING SALVAGED SIGNS**  
 STA. 200+50, LT. (2 SIGNS)  
 STA. 201+84, LT. (5 SIGNS)  
 STA. 202+49, LT. (PRIVATE SIGN)

**SETTING SALVAGED POSTS**  
 STA. 202+49, LT. (PRIVATE SIGN)



**STRIPING LEGEND**  
 SYL = SINGLE YELLOW LINE  
 DYL = DOUBLE YELLOW LINE

**SIGNING LEGEND**  
 N = NEW  
 R = REMOVE  
 R&S = REMOVE AND SALVAGE  
 R&R = REMOVE AND RESET  
 RET = RETAIN  
 S = SALVAGE  
 B-B = BACK TO BACK



PROJECT NAME:	HARTLAND	PLOT DATE:	4/22/2016
PROJECT NUMBER:	57790.00	DRAWN BY:	O.M. DARISSE
FILE NAME:	57790BDR.SPM.dgn	CHECKED BY:	D.M. PECK
PROJECT LEADER:	J.D. SALADINO	SHEET	18 OF 31
DESIGNED BY:	O.M. DARISSE		



**CONSTRUCTION NOTES:**

**DURABLE 4" SINGLE WHITE LINE**

- STA. 101+06 - 101+87, RT.
- STA. 101+06 - 101+61, LT.
- STA. 102+91 - 104+60, LT.
- STA. 102+93 - 104+60, RT.
- STA. 202+25 - 203+24, LT.
- STA. 202+25 - 204+29, RT.
- STA. 205+48 - 206+47, LT. (PARKING)
- STA. 205+60 - 206+33, RT. (PARKING)
- STA. 3+27 - 3+50, RT. (PARKING)

**DURABLE 4" DOUBLE YELLOW LINE**

- STA. 101+06 - 101+89
- STA. 102+93 - 104+60
- STA. 202+50 - 204+28
- STA. 205+22 - 207+25

**DURABLE CROSSWALK MARKING**

- STA. 101+97
- STA. 204+38
- STA. 204+15
- STA. 102+82

**DURABLE 24" STOP BAR**

- STA. 101+88, RT.
- STA. 102+92, LT.
- STA. 204+30, RT.
- STA. 205+23, LT.

**REMOVING SIGNS**

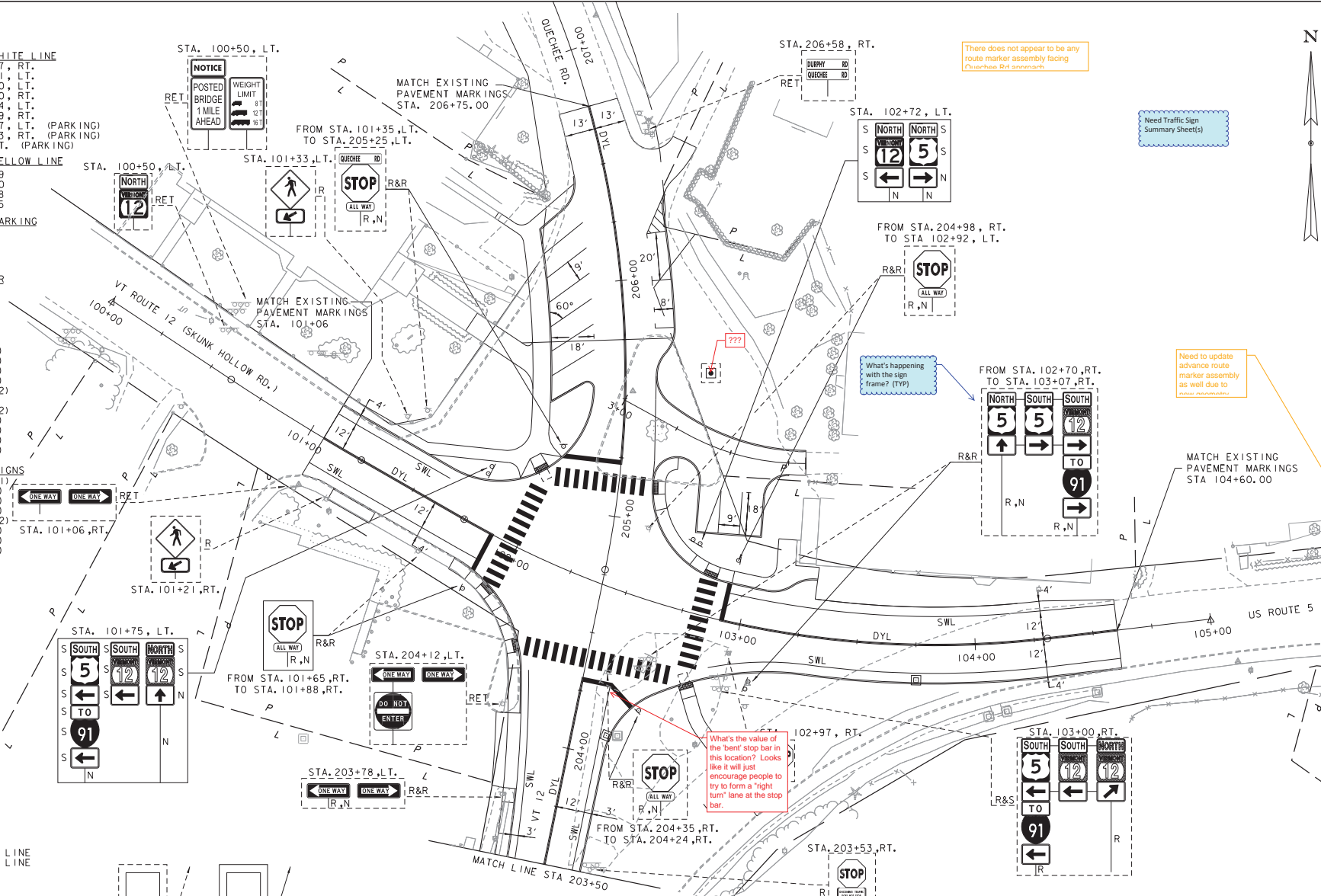
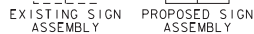
- STA. 101+21, RT. (2)
- STA. 101+33, LT. (2)
- STA. 101+35, LT. (3)
- STA. 101+65, RT. (2)
- STA. 102+70, RT. (12)
- STA. 102+97, RT.
- STA. 103+00, RT. (12)
- STA. 203+53, RT. (2)
- STA. 203+78, LT. (2)
- STA. 204+35, RT. (2)
- STA. 204+98, RT. (2)

**ERECTING SALVAGED SIGNS**

- STA. 101+75, LT. (11)
- STA. 101+88, RT. (2)
- STA. 102+72, LT. (5)
- STA. 102+92, LT. (2)
- STA. 103+07, RT. (12)
- STA. 203+78, LT. (2)
- STA. 204+24, RT. (2)
- STA. 205+25, LT. (3)

**STRIPING LEGEND**  
 SYL = SINGLE YELLOW LINE  
 DYL = DOUBLE YELLOW LINE

**SIGNING LEGEND**  
 N = NEW  
 R = REMOVE  
 R&S = REMOVE AND SALVAGE  
 R&R = REMOVE AND RESET  
 RET = RETAIN  
 S = SALVAGE  
 B-B = BACK TO BACK



There does not appear to be any route marker assembly facing Quechee Rd approach.

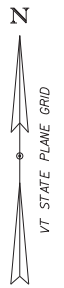
Need Traffic Sign Summary Sheet(s)

Need to update advance route marker assembly as well due to recent rework.

What's the value of the bent stop bar in this location? Looks like it will just encourage people to try to form a "right turn" lane at the stop bar.

Also need a new STOP AHEAD warning sign for the NB US-5 approach. Already exists for SB US-5 and SB VT-12. Note sure about the Quechee Road approach.

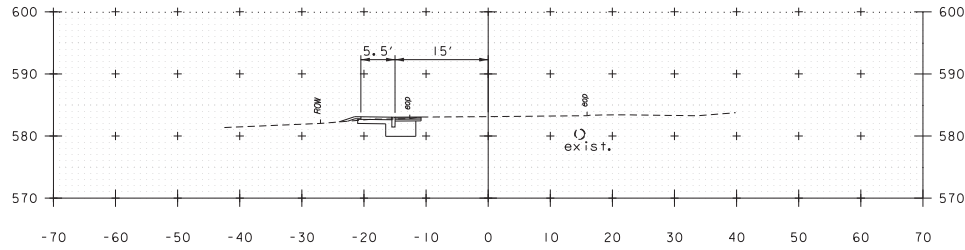
What's happening with the sign frame? (TYP)



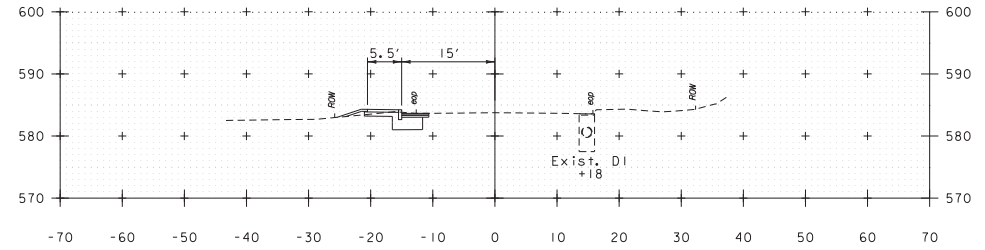
PROJECT NAME: HARTLAND  
 PROJECT NUMBER: 57790.00

FILE NAME: 57790BDR.SPM.dgn  
 PROJECT LEADER: J.D. SALADINO  
 DESIGNED BY: O.M. DARISSE  
 SIGNING AND STRIPING LAYOUT (2 OF 2)

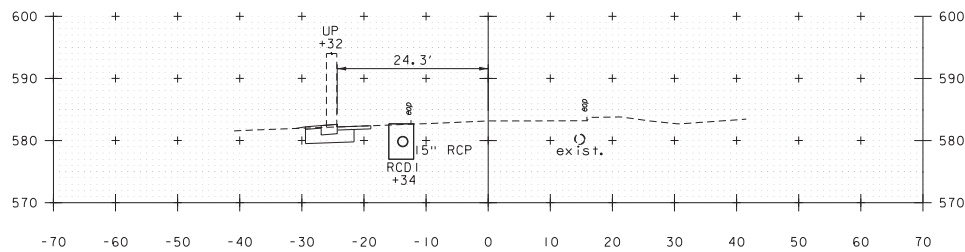
PLOT DATE: 4/22/2016  
 DRAWN BY: O.M. DARISSE  
 CHECKED BY: D.M. PECK  
 SHEET 19 OF 31



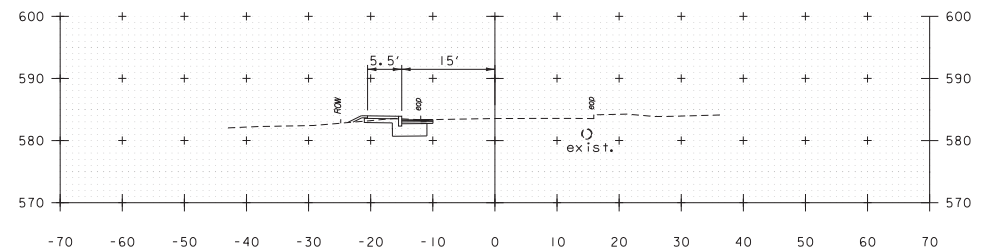
200+41



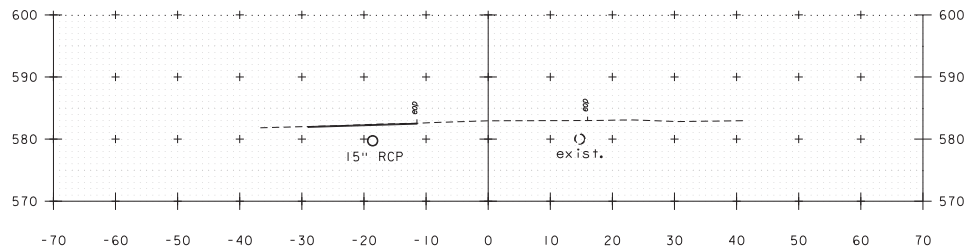
201+00



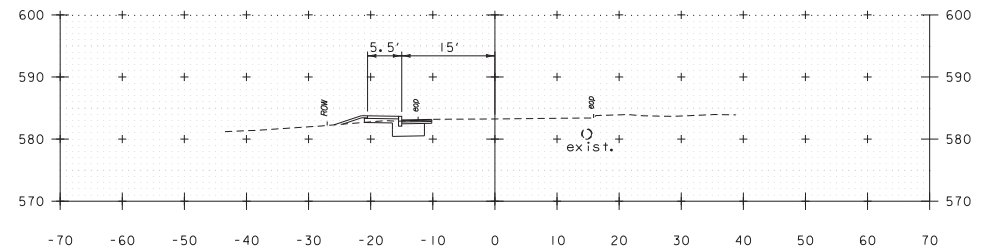
200+25



200+75



200+00



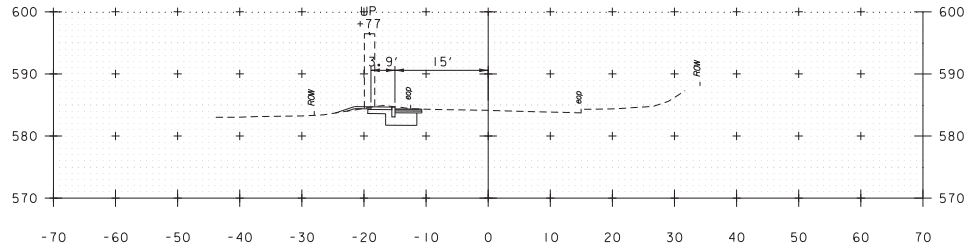
200+50

BEGIN PROJECT  
STA. 199+70

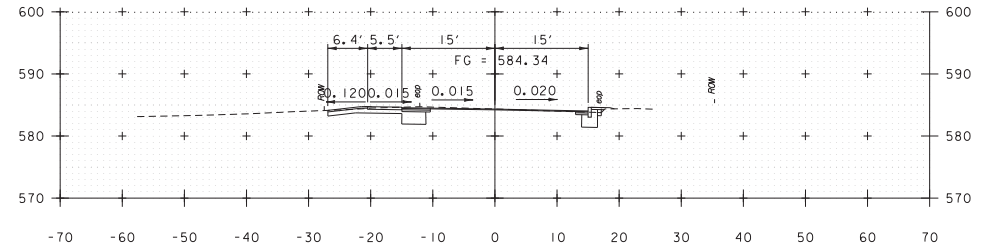


US ROUTE 5 TO QUECHEE ROAD

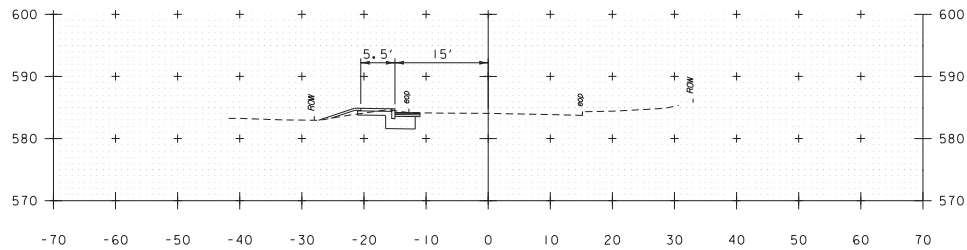
PROJECT NAME:	HARTLAND	PLOT DATE:	4/22/2016
PROJECT NUMBER:	57790.00	DRAWN BY:	O.M. DARISSE
FILE NAME:	57790xs.dgn	CHECKED BY:	D.M. PECK
PROJECT LEADER:	J.D. SALADINO	CROSS SECTIONS (OF 7)	SHEET 20 OF 31



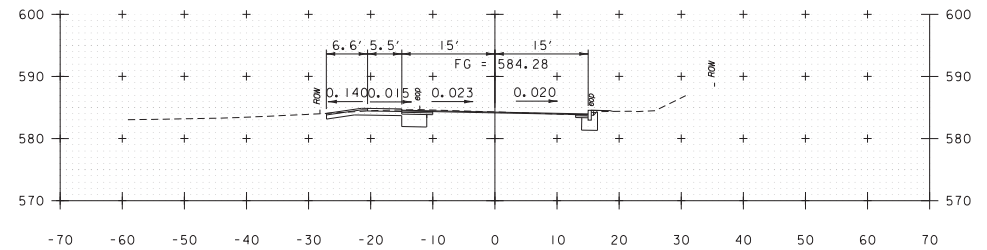
201+75



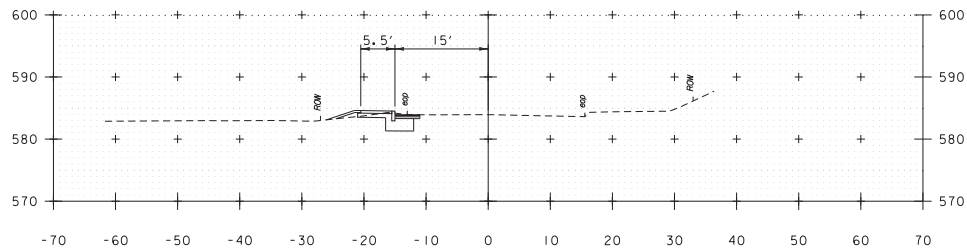
202+25



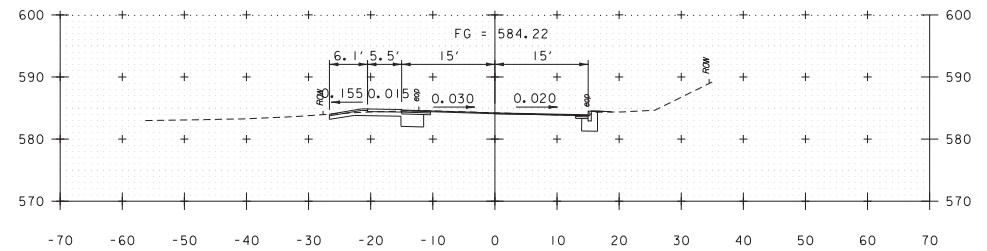
201+50



202+12



201+25

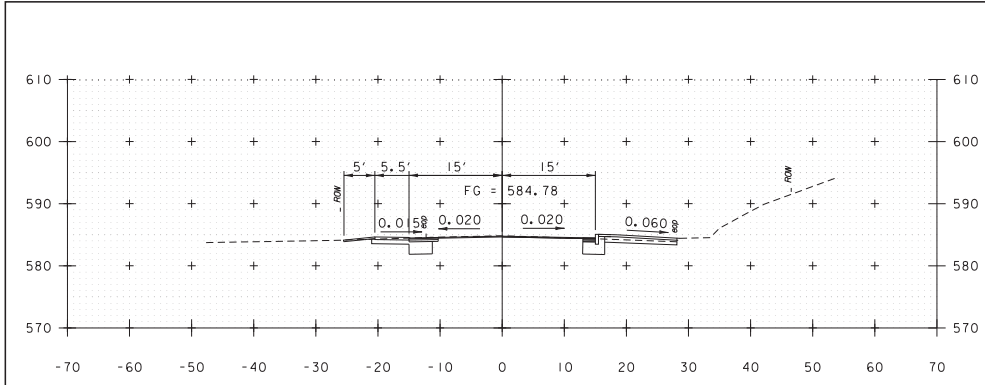


202+00

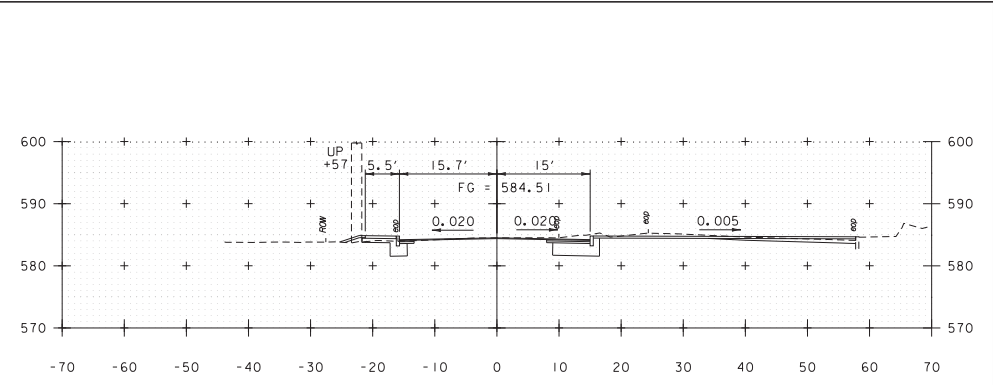
US ROUTE 5 TO QUECHEE ROAD



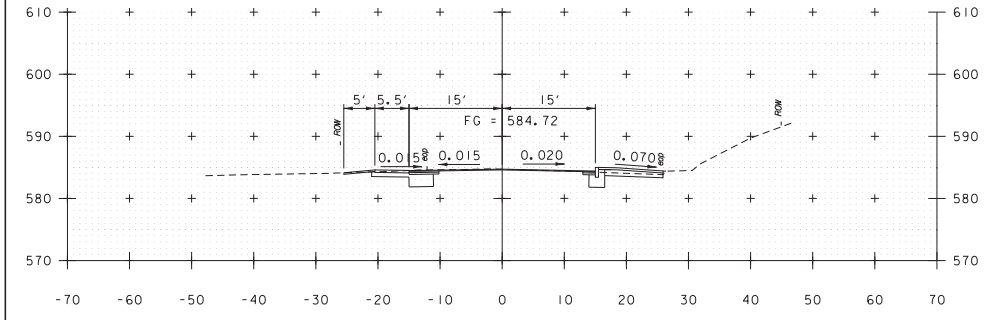
PROJECT NAME:	HARTLAND	FILE NAME:	57790xs.dgn	PLOT DATE:	4/22/2016
PROJECT NUMBER:	57790.00	PROJECT LEADER:	J.D. SALADINO	DRAWN BY:	O.M. DARISSE
		DESIGNED BY:	O.M. DARISSE	CHECKED BY:	D.M. PECK
		CROSS SECTIONS (2 OF 7)		SHEET	21 OF 31



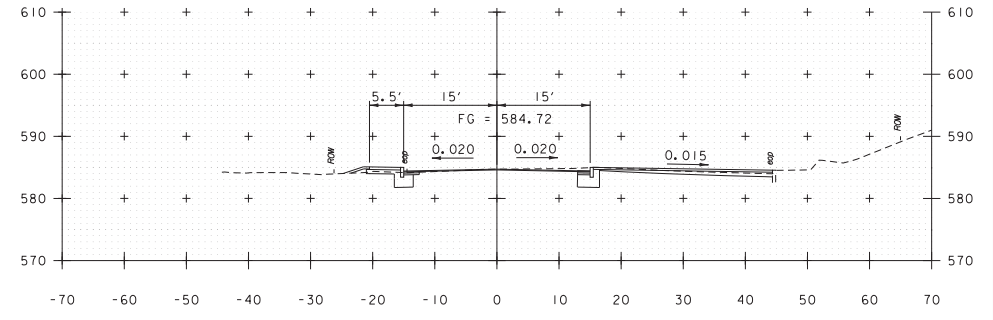
202+83



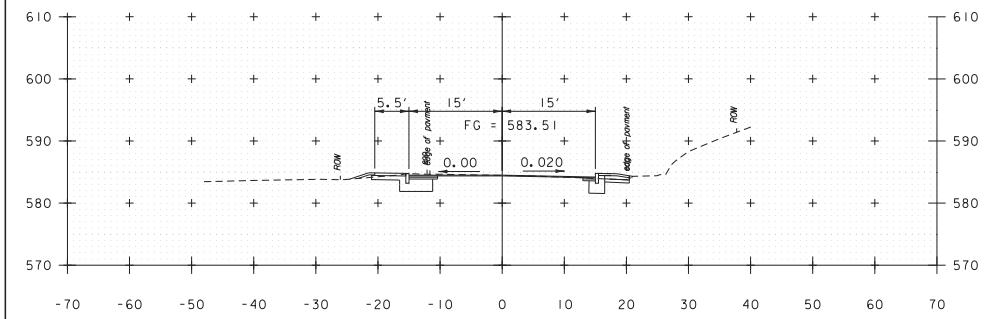
203+50



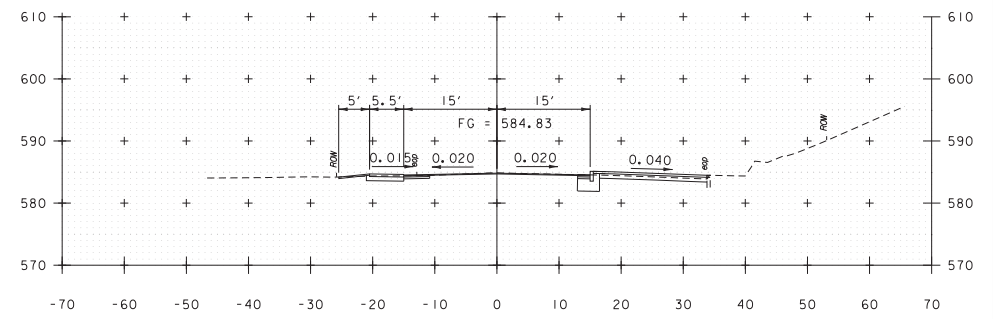
202+75



203+25



202+50



203+00

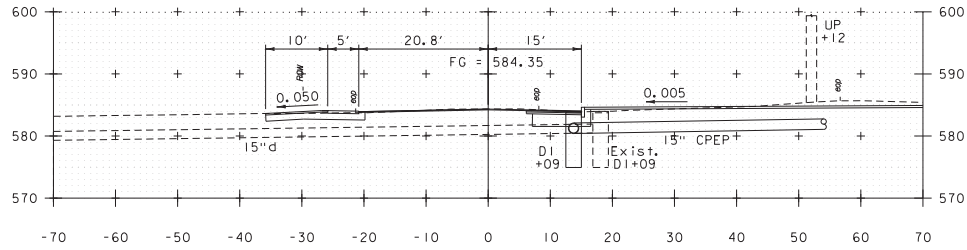


SCALE IN FEET

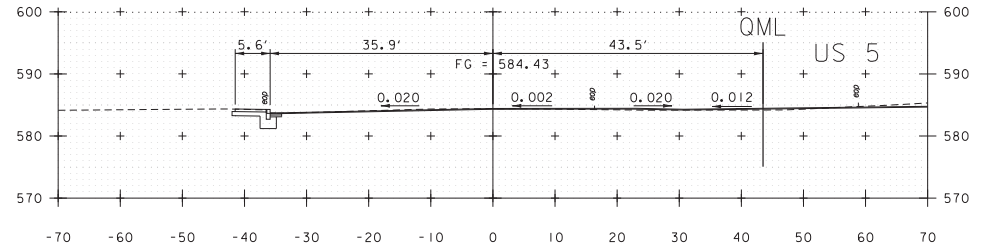


PROJECT NAME:	HARTLAND	FILE NAME:	57790xs.dgn	PLOT DATE:	4/22/2016
PROJECT NUMBER:	57790.00	PROJECT LEADER:	J.D. SALADINO	DRAWN BY:	O.M. DARISSE
		DESIGNED BY:	O.M. DARISSE	CHECKED BY:	D.M. PECK
		CROSS SECTIONS (3 OF 7)		SHEET	22 OF 31

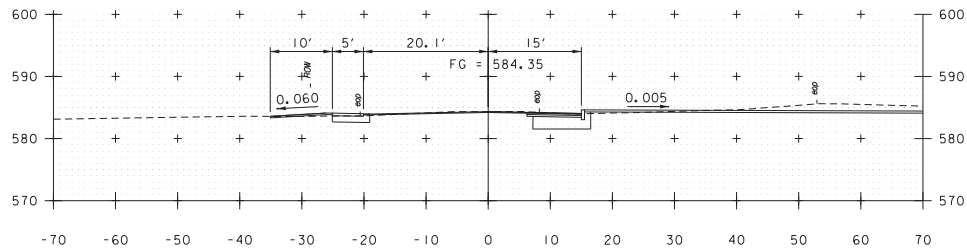
US ROUTE 5 TO QUECHEE ROAD



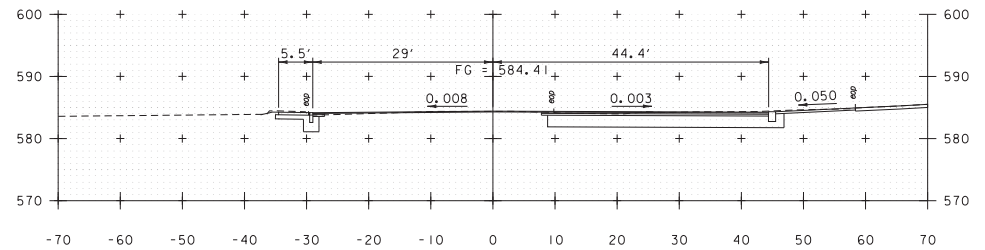
204+00



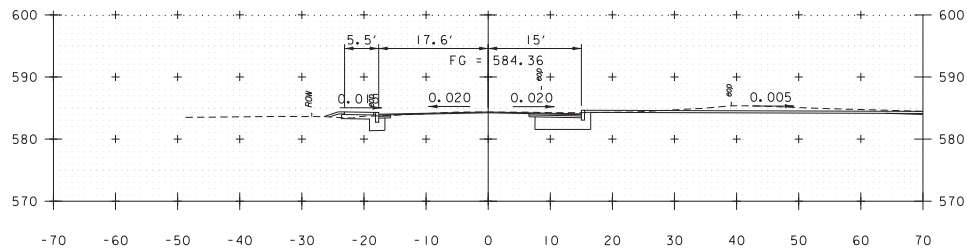
204+50



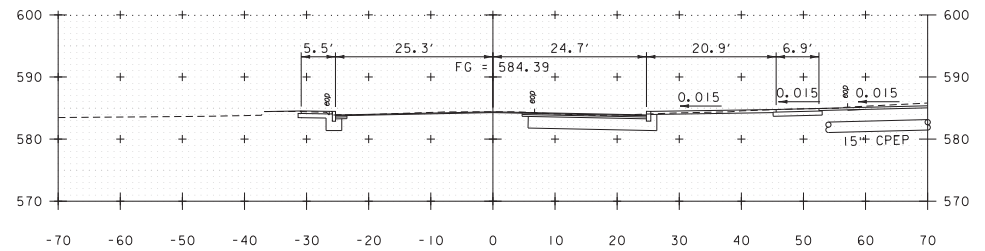
203+95



204+38



203+75

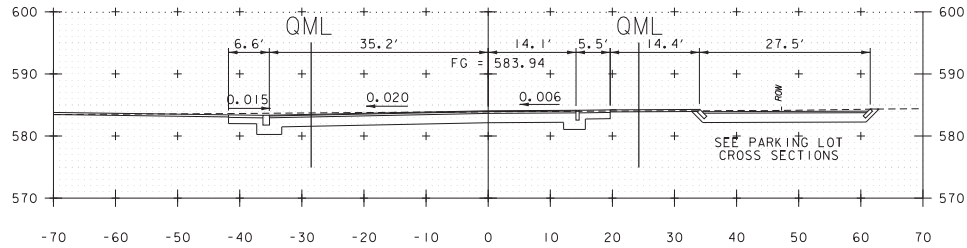


204+25

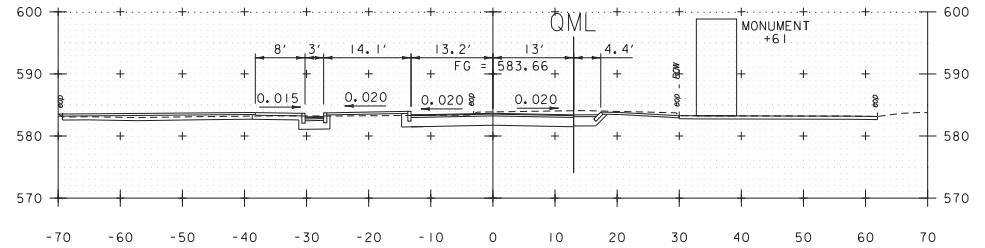
US ROUTE 5 TO QUECHEE ROAD



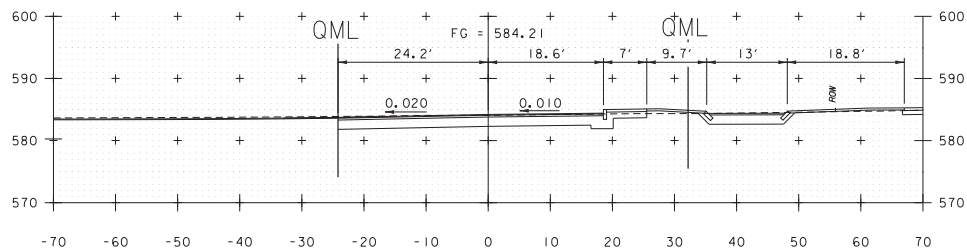
PROJECT NAME:	HARTLAND	PLOT DATE:	4/22/2016
PROJECT NUMBER:	57790.00	DRAWN BY:	O.M. DARISSE
FILE NAME:	57790xs.dgn	CHECKED BY:	D.M. PECK
PROJECT LEADER:	J.D. SALADINO	CROSS SECTIONS (4 OF 7)	SHEET 23 OF 31



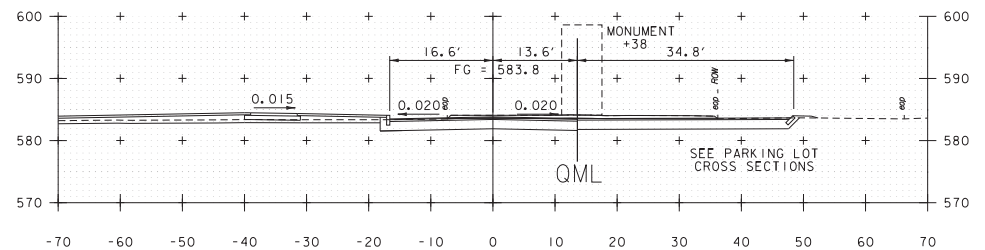
205+14



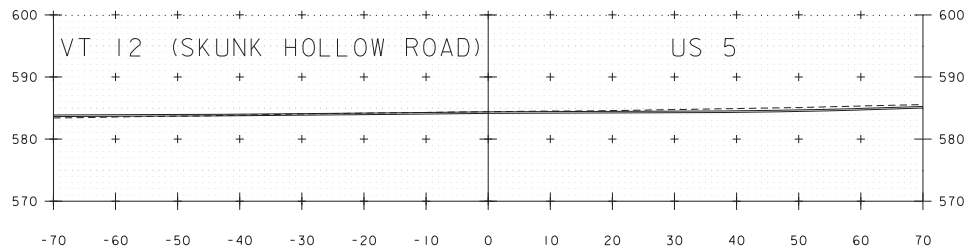
205+50



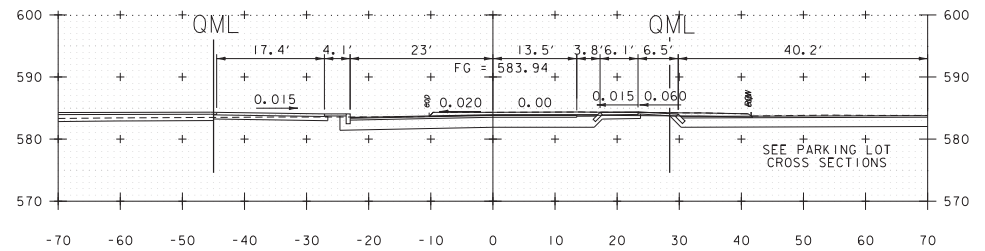
205+00



205+36



204+75



205+25

VT 12 (SKUNK HOLLOW ROAD) US 5

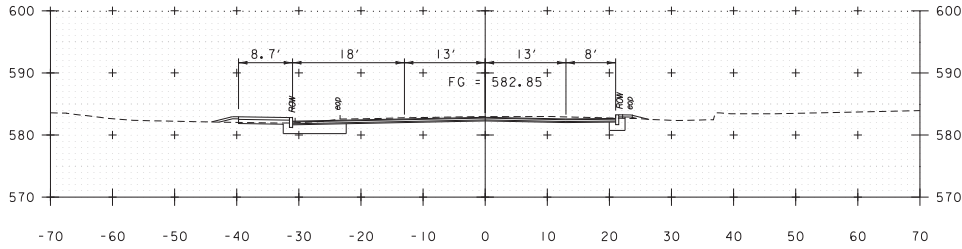
US ROUTE 5 TO QUECHEE ROAD



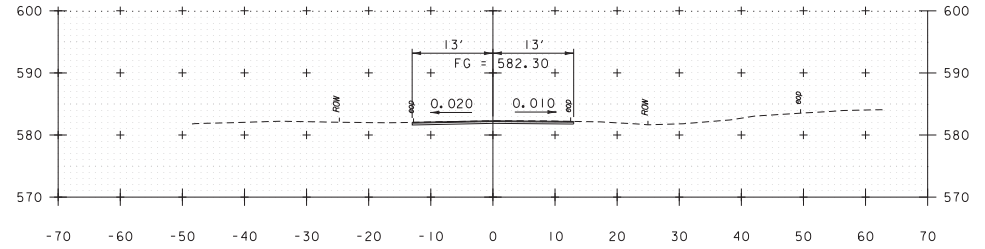
PROJECT NAME:	HARTLAND	PLOT DATE:	4/22/2016
PROJECT NUMBER:	57790.00	DRAWN BY:	O.M. DARISSE
FILE NAME:	57790xs.dgn	CHECKED BY:	D.M. PECK
PROJECT LEADER:	J.D. SALADINO	CROSS SECTIONS (5 OF 7)	SHEET 24 OF 31



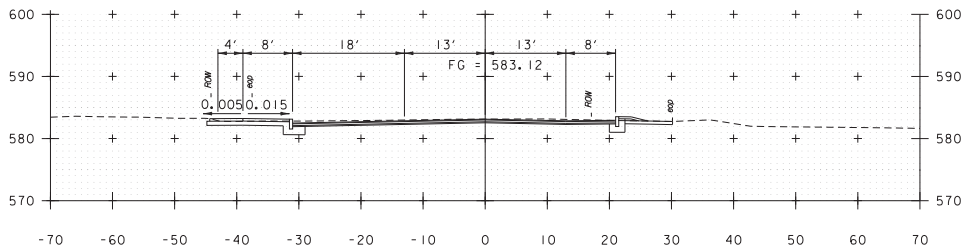
END PROJECT  
STA. 206+75



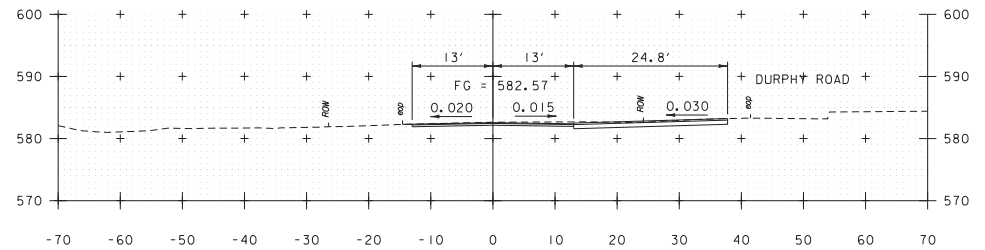
206+25



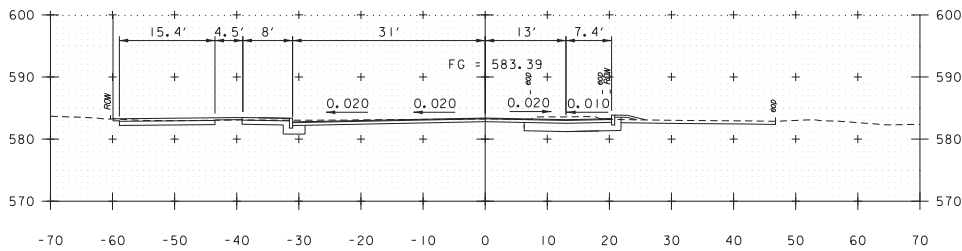
206+75



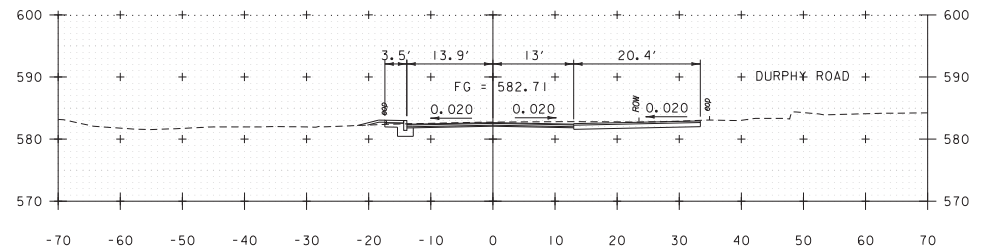
206+00



206+50



205+75



206+42

US ROUTE 5 TO QUECHEE ROAD



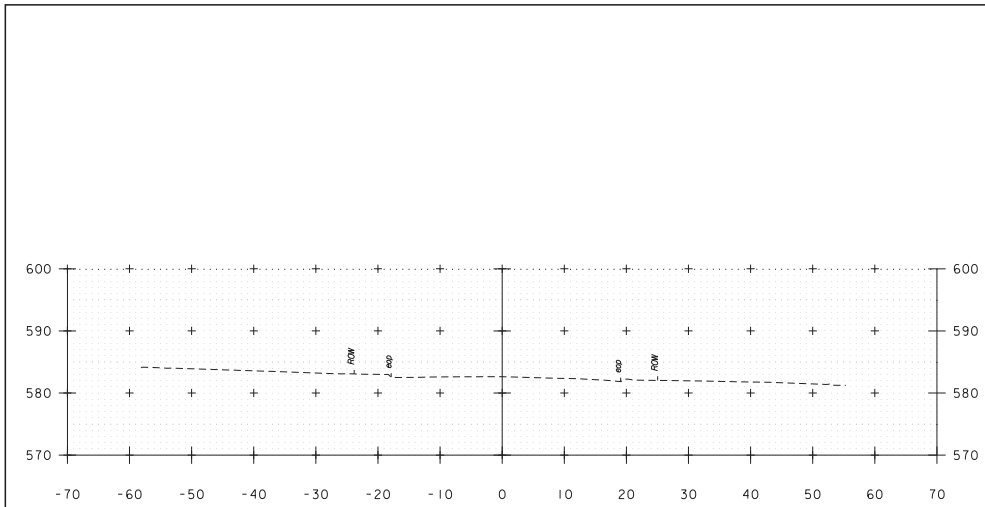
SCALE IN FEET



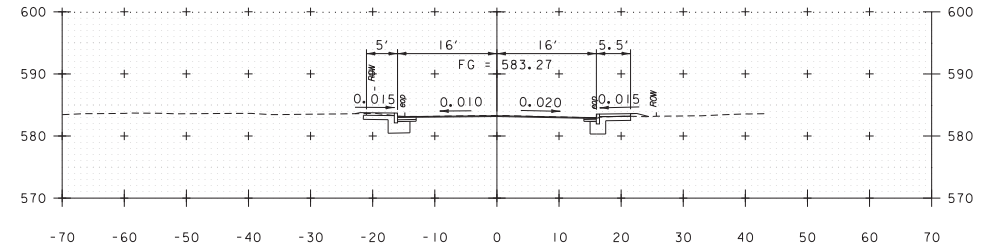
PROJECT NAME: HARTLAND  
PROJECT NUMBER: 57790.00

FILE NAME: 57790xs.dgn  
PROJECT LEADER: J.D. SALADINO  
DESIGNED BY: O.M. DARISSE  
CROSS SECTIONS (6 OF 7)

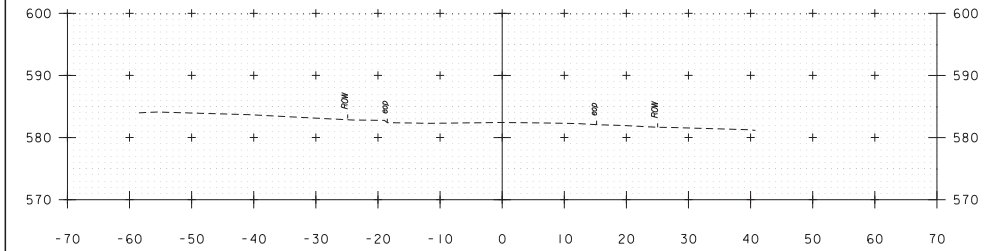
PLOT DATE: 4/22/2016  
DRAWN BY: O.M. DARISSE  
CHECKED BY: D.M. PECK  
SHEET 25 OF 31



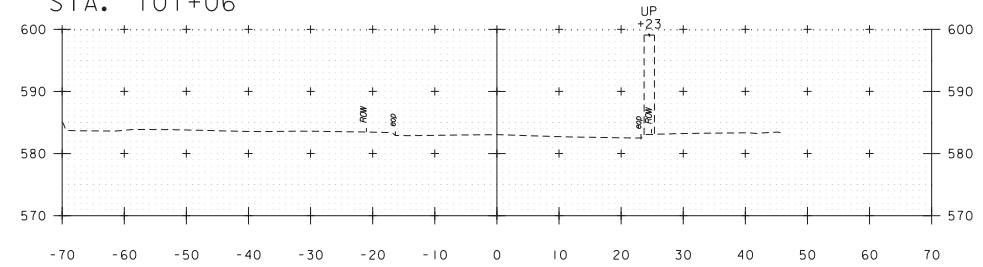
100+50



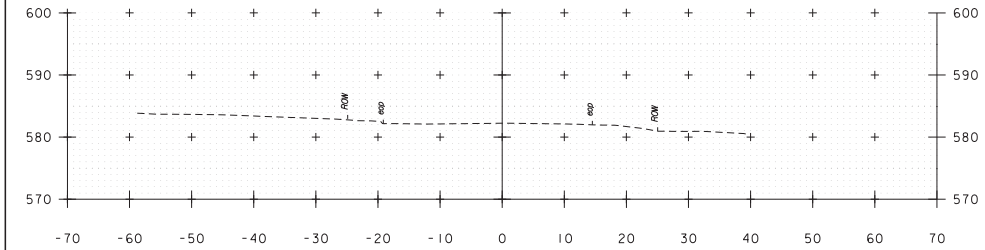
BEGIN MILL AND OVERLAY 101+25  
STA. 101+06



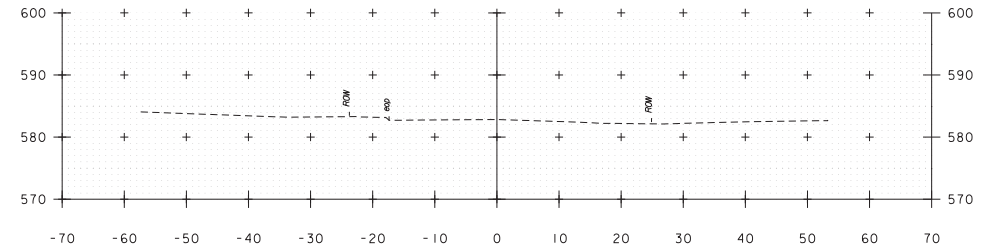
100+25



101+00



100+00

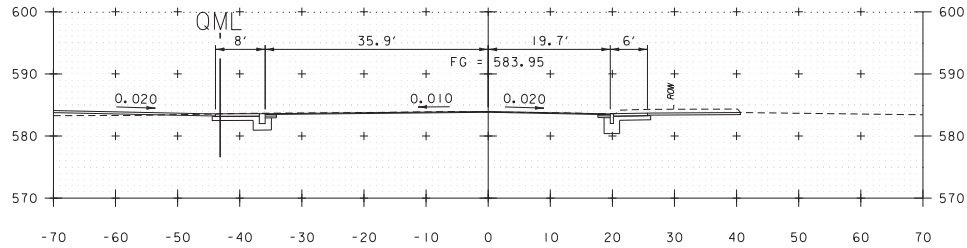


100+75

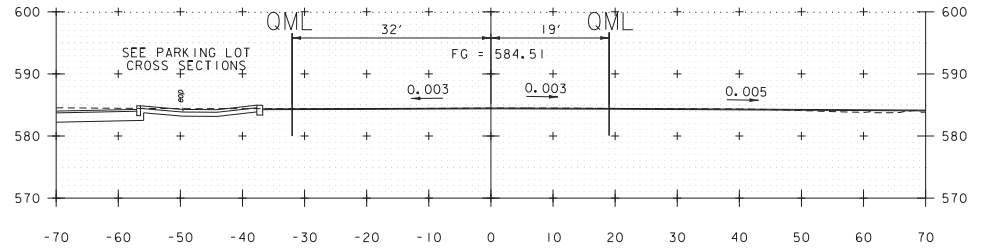
VT 12 (SKUNK HOLLOW RD) TO US 5



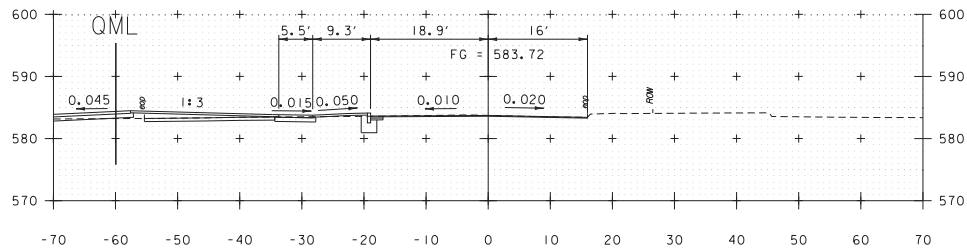
PROJECT NAME:	HARTLAND	PLOT DATE:	4/22/2016
PROJECT NUMBER:	57790.00	DRAWN BY:	O.M. DARISSE
FILE NAME:	57790xs.dgn	DESIGNED BY:	O.M. DARISSE
PROJECT LEADER:	J.D. SALADINO	CHECKED BY:	D.M. PECK
CROSS SECTIONS (1 OF 4)		SHEET	26 OF 31



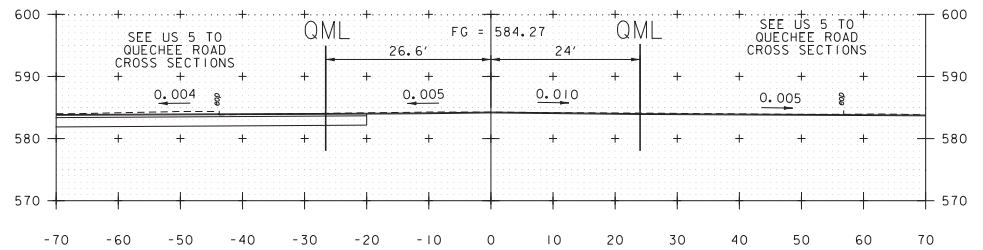
101+97



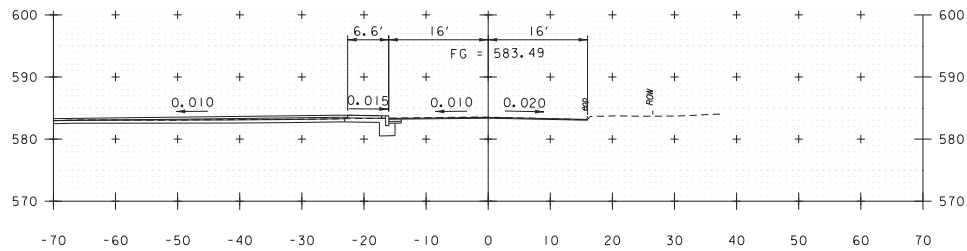
102+50



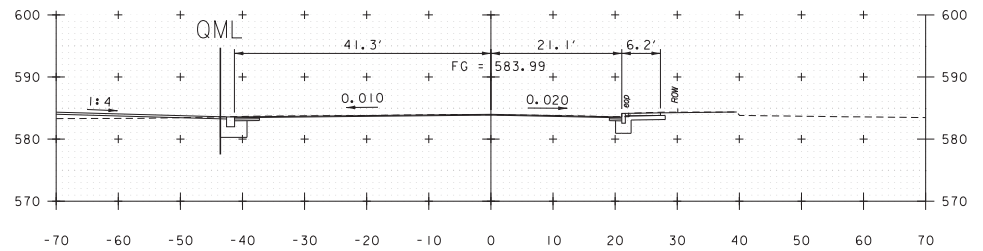
101+75



102+25



101+50

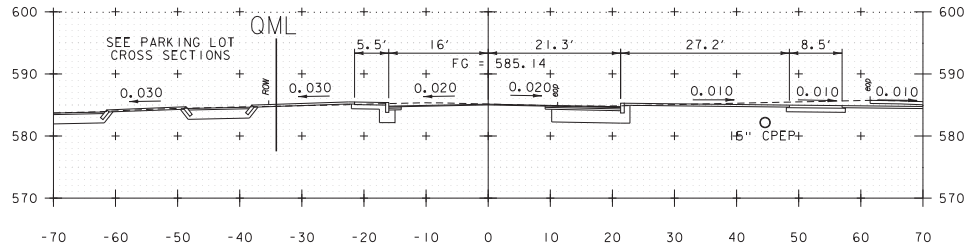


102+00

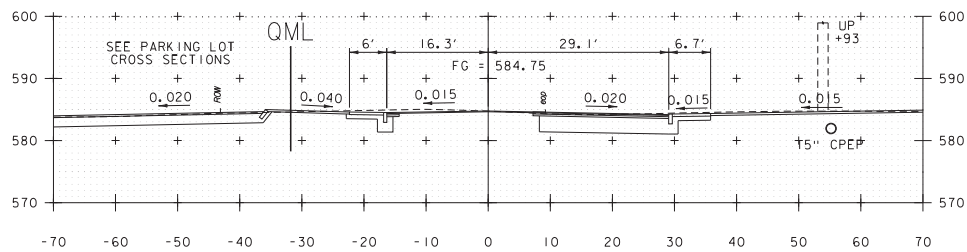
VT 12 (SKUNK HOLLOW RD) TO US 5



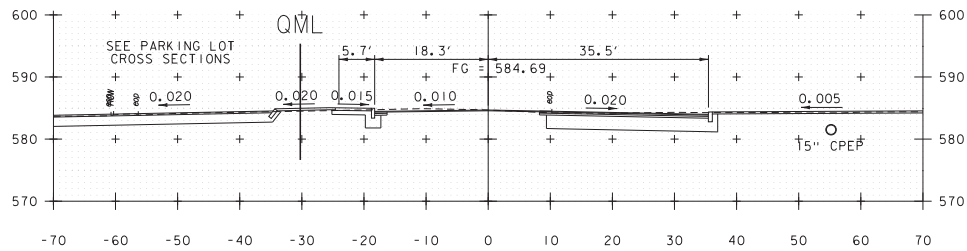
PROJECT NAME:	HARTLAND	PLOT DATE:	4/22/2016
PROJECT NUMBER:	57790.00	DRAWN BY:	O.M. DARISSE
FILE NAME:	57790xs.dgn	CHECKED BY:	D.M. PECK
PROJECT LEADER:	J.D. SALADINO	CROSS SECTIONS (2 OF 4)	SHEET 27 OF 31



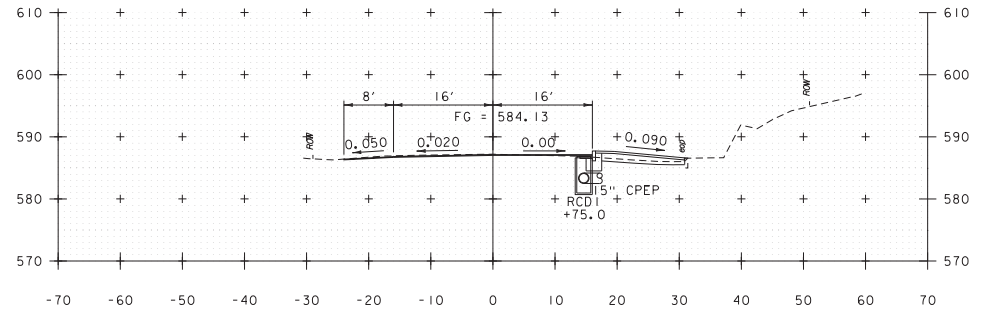
103+00



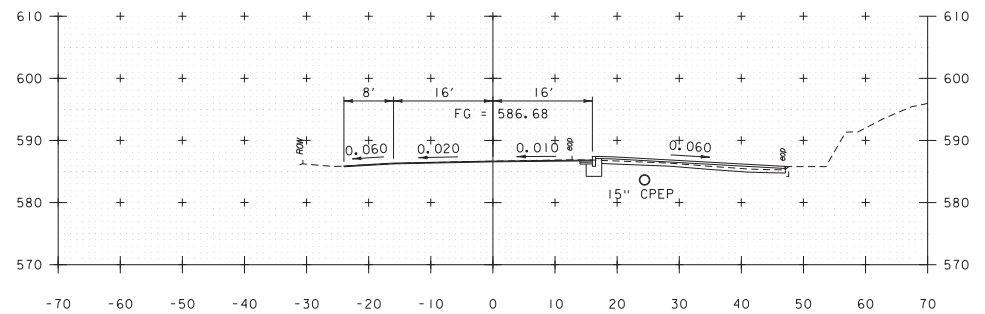
102+84



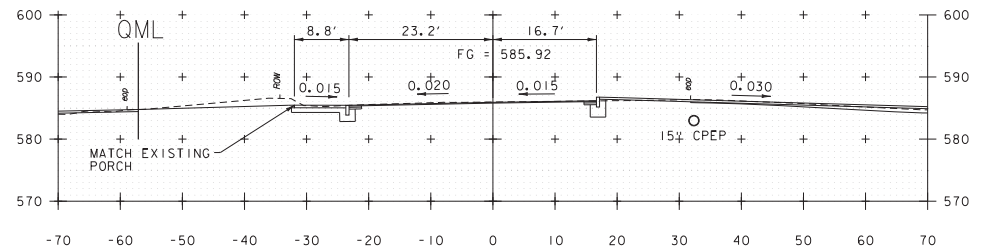
102+75



103+75



103+50



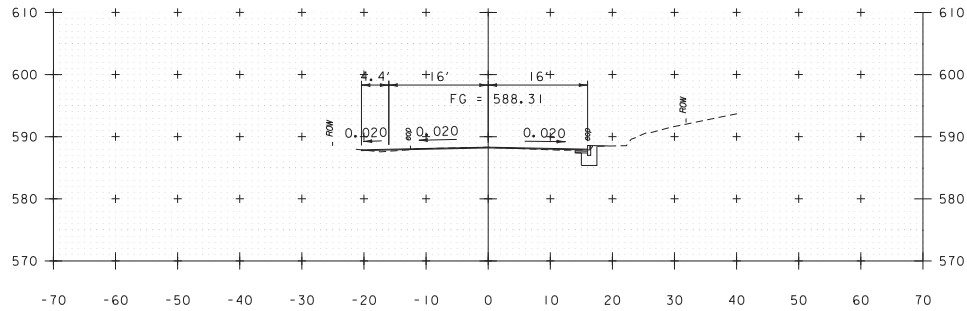
103+25

VT 12 (SKUNK HOLLOW RD) TO US 5

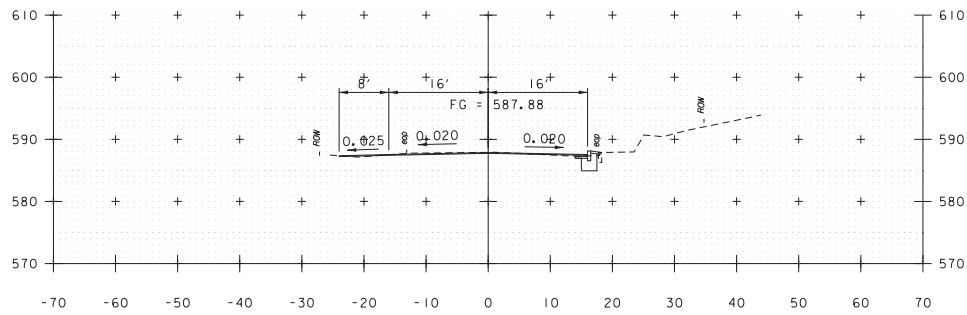


PROJECT NAME:	HARTLAND	PLOT DATE:	4/22/2016
PROJECT NUMBER:	57790.00	DRAWN BY:	O.M. DARISSE
FILE NAME:	57790xs.dgn	CHECKED BY:	D.M. PECK
PROJECT LEADER:	J.D. SALADINO	CROSS SECTIONS (3 OF 4)	SHEET 28 OF 31

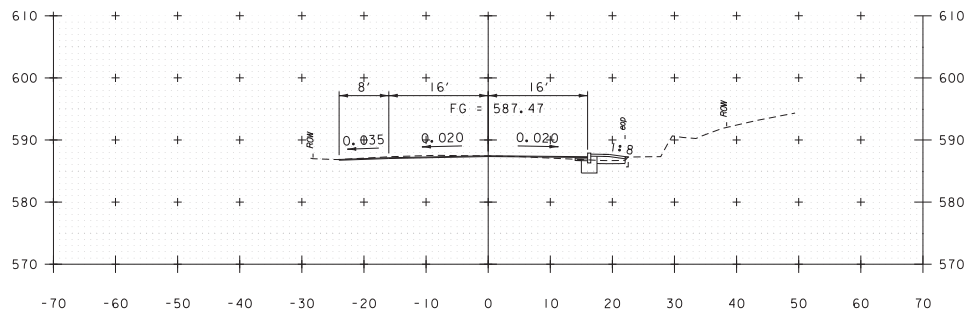
END PROJECT  
STA. 104+60



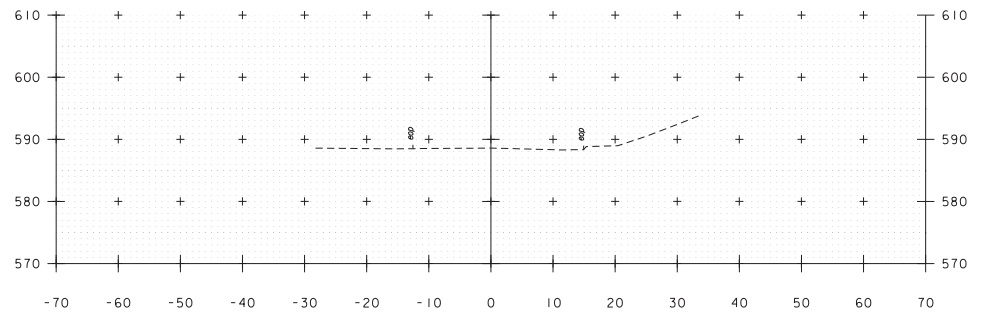
104+50



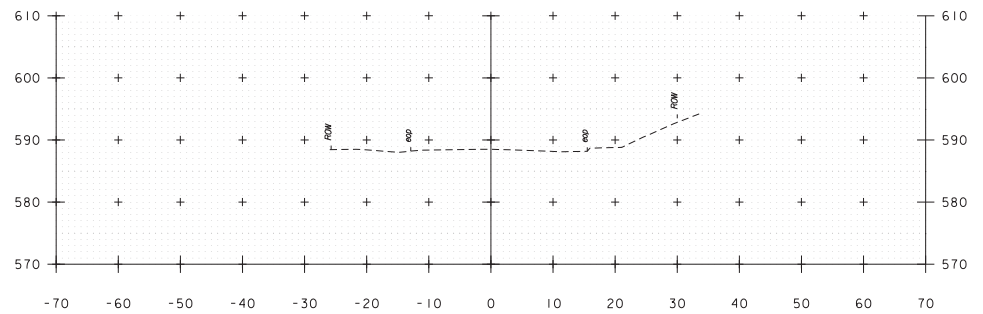
104+25



104+00



105+00

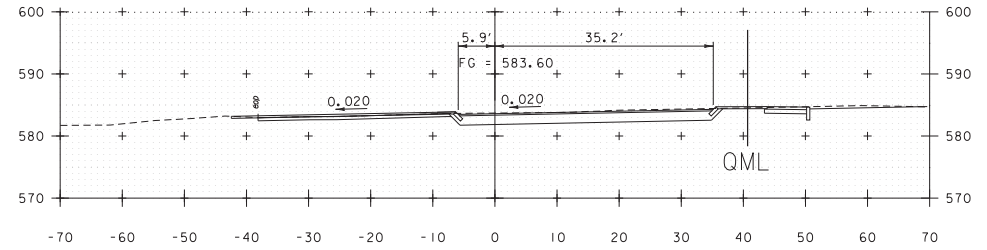
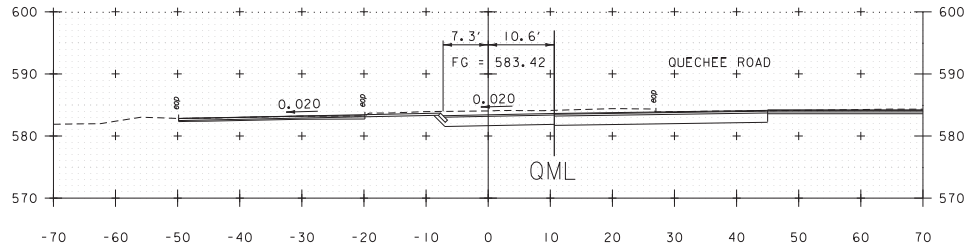


104+75

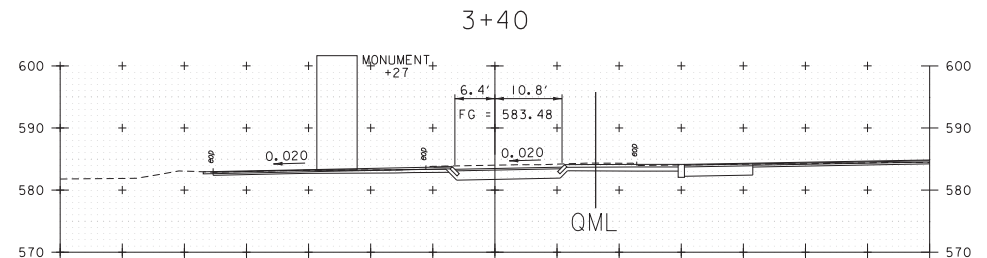
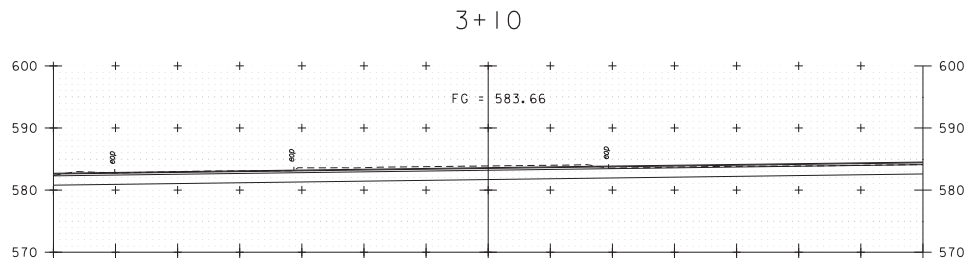
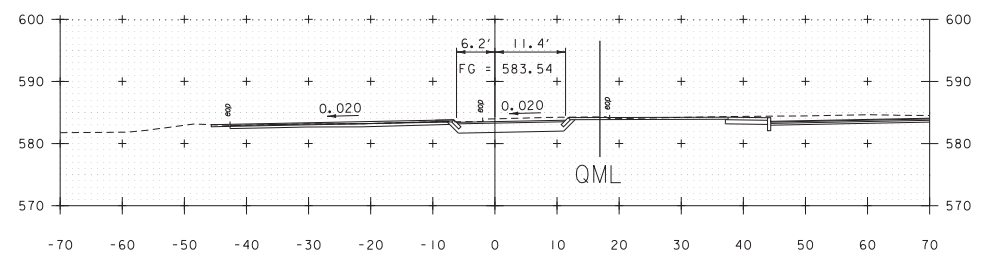
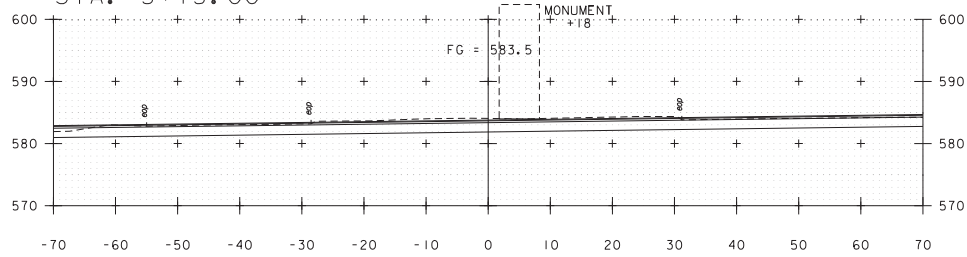
VT 12 (SKUNK HOLLOW RD) TO US 5



PROJECT NAME:	HARTLAND	PLOT DATE:	4/22/2016
PROJECT NUMBER:	57790.00	DRAWN BY:	O.M. DARISSE
FILE NAME:	57790xs.dgn	CHECKED BY:	D.M. PECK
PROJECT LEADER:	J.D. SALADINO	DESIGNED BY:	O.M. DARISSE
CROSS SECTIONS:	(4 OF 4)	SHEET:	29 OF 31



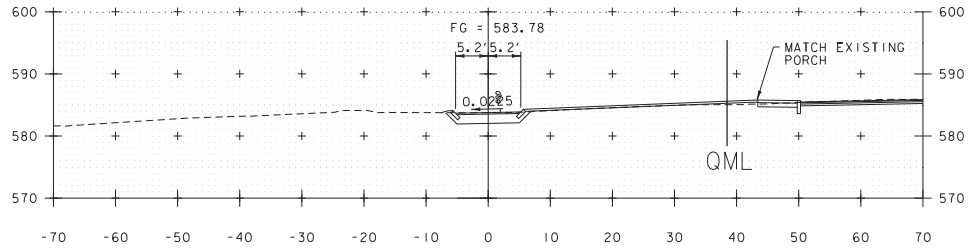
MATCH ROADWAY GRADE  
STA. 3+15.00



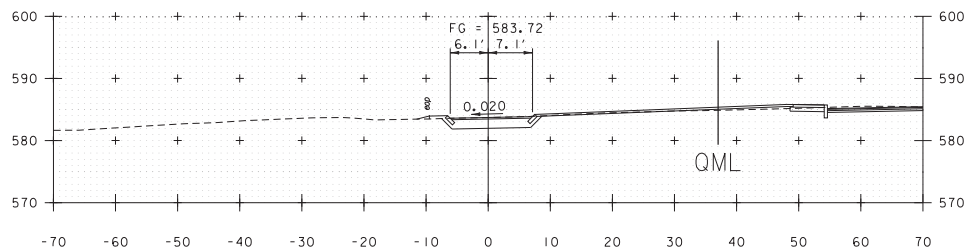
PROJECT NAME: HARTLAND  
PROJECT NUMBER: 57790.00

FILE NAME: 57790xs.dgn  
PROJECT LEADER: J.D. SALADINO  
DESIGNED BY: O.M. DARISSE  
PARKING LOT CROSS SECTIONS (1 OF 2)

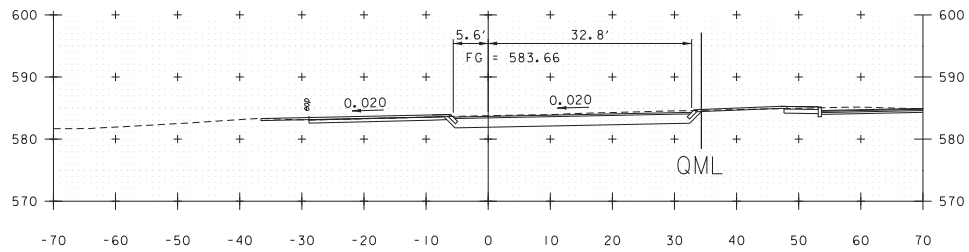
PLOT DATE: 4/22/2016  
DRAWN BY: O.M. DARISSE  
CHECKED BY: D.M. PECK  
SHEET 30 OF 31



3+80

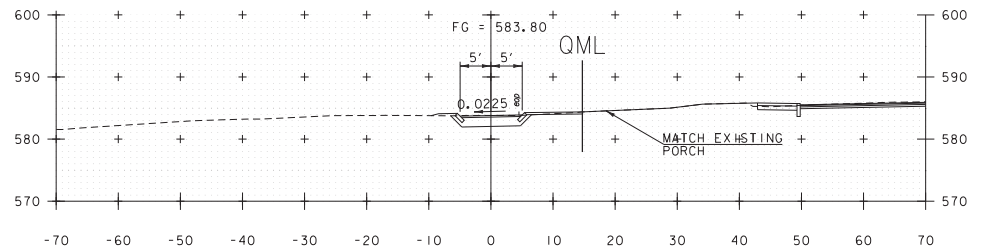


3+70



3+60

MATCH EXISTING DRIVEWAY  
STA 3+82.00



3+82



PROJECT NAME:	HARTLAND	PLOT DATE:	4/22/2016
PROJECT NUMBER:	57790.00	DRAWN BY:	O.M. DARISSE
FILE NAME:	57790xs.dgn	CHECKED BY:	D.M. PECK
PROJECT LEADER:	J.D. SALADINO	DESIGNED BY:	O.M. DARISSE
PARKING LOT CROSS SECTIONS (2 OF 2)			SHEET 31 OF 31