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SD-501.00	CONCRETE DETAILS AND NOTES	02/09/2012
SD-502.00	CONCRETE DETAILS AND NOTES	10/10/2012

# STATE OF VERMONT AGENCY OF TRANSPORTATION



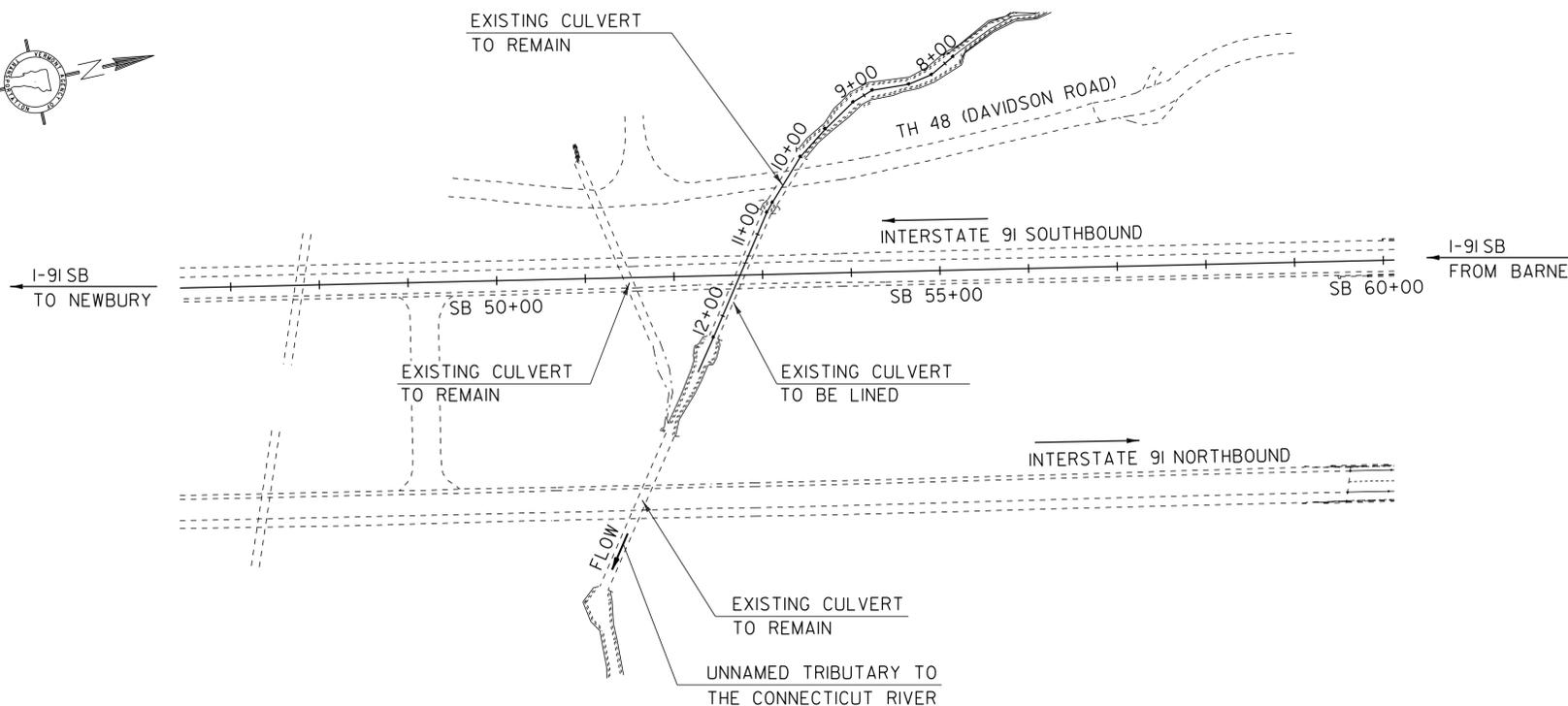
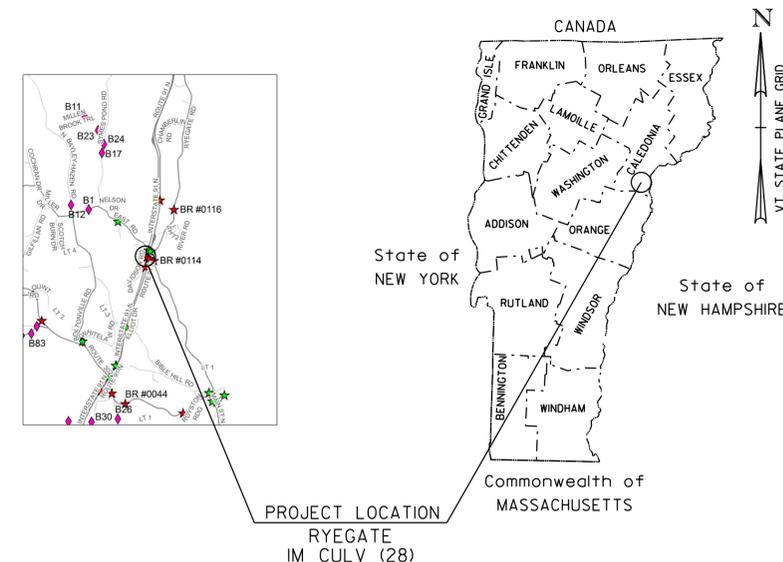
## PROPOSED IMPROVEMENT CULVERT PROJECT TOWN OF RYEGATE COUNTY OF CALEDONIA

ROUTE NO: I-91(RURAL FREEWAY) RYEGATE IM CULV (28) BRIDGE NO: 68-4S

PROJECT LOCATION: LOCATED IN THE COUNTY OF CALEDONIA, TOWN OF RYEGATE, OVER UNNAMED TRIBUTARY TO THE CONNECTICUT RIVER, BETWEEN I-91 EXITS 17 & 18.

PROJECT DESCRIPTION: LINING OF CULVERT 68-4S, HEADWALL REPLACEMENT, AND ASSOCIATED AQUATIC ORGANISM PASSAGE WORK

LENGTH OF STRUCTURE: 134'-0"



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 I	
SURVEYED BY : VTRANS	
SURVEYED DATE : 08/2013	
DATUM	
VERTICAL	NAVD 88
HORIZONTAL	NAD 83 (07)

SCALE 1" = 100'-0"  
100 0 100

**FINAL PLANS  
11-MAR-2016**

DEPARTMENT OF TRANSPORTATION FEDERAL HIGHWAY ADMINISTRATOR
APPROVED _____ DATE _____
DIRECTOR OF PROJECT DELIVERY
APPROVED _____ DATE _____
PROJECT MANAGER : WENDY PELLETIER, P.E.
PROJECT NAME : RYEGATE
PROJECT NUMBER : IM CULV (28)
SHEET 1 OF 14 SHEETS

**GENERAL**

- ALL MATERIALS AND CONSTRUCTION SHALL CONFORM TO STATE OF VERMONT AGENCY OF TRANSPORTATION'S STANDARD SPECIFICATIONS FOR CONSTRUCTION, DATED 2011, AND ITS LATEST REVISIONS, AND THE AASHTO LRFD BRIDGE DESIGN SPECIFICATIONS, DATED 2012, AND ITS LATEST REVISIONS.
- ALL DIMENSIONS ARE HORIZONTAL OR VERTICAL, AND ARE GIVEN AT 68 DEGREES FAHRENHEIT, UNLESS NOTED OTHERWISE.
- IT IS EXPECTED THAT THE CULVERT LINING, HEADWALL CONSTRUCTION, AND AQUATIC ORGANISM PASSAGE (AOP) WILL BE THE MAJORITY OF THE WORK. DURING THE COURSE OF CONSTRUCTION IF THE CONTRACTOR SEES AN AREA OF CONCERN, SUCH AS VOIDS AROUND THE EXISTING CULVERT, IT SHALL BE BROUGHT TO THE ATTENTION OF THE ENGINEER. THE ENGINEER SHALL MAKE A DETERMINATION AS TO THE NEED FOR FURTHER EXPLORATION.
- THE CONTRACTOR MUST CONTACT DIG SAFE AT 1-888-344-7233 AT LEAST THREE DAYS PRIOR TO COMMENCEMENT OF CONSTRUCTION.

**TRAFFIC CONTROL**

- ALL TRAFFIC CONTROL MEASURES FOR THIS PROJECT SHALL BE INSTALLED IN ACCORDANCE WITH TYPICAL APPLICATIONS TA-5, TA-33, AND TA-34 OF THE 2009 MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES (MUTCD) AND THE REFERENCED VTRANS STANDARD DRAWINGS. CONFLICTS BETWEEN THE MUTCD AND THE VTRANS STANDARD DRAWINGS SHOULD DEFER TO THE MUTCD.
- THE CONTRACTOR SHALL SUBMIT A SPECIFIC TRAFFIC CONTROL PLAN TO THE HIGHWAY SAFETY AND DESIGN ENGINEER FOR APPROVAL PER SUBSECTIONS 104.04 AND 105.03. THIS WORK SHALL BE DONE IN COMPLIANCE WITH ITEM 900.645, SPECIAL PROVISION (TRAFFIC CONTROL, ALL-INCLUSIVE).
- ENERGY ABSORPTION ATTENUATORS, IF USED, SHALL MEET THE REQUIREMENTS OF SECTION 621. PAYMENT FOR INSTALLING AND REMOVING ANY ENERGY ABSORPTION ATTENUATORS SHALL BE INCIDENTAL TO ITEM 900.645, SPECIAL PROVISION (TRAFFIC CONTROL, ALL-INCLUSIVE).
- SIGNS, BARRICADES, AND TRAFFIC CONTROL DEVICES SHALL BE CLEANED WEEKLY AND THIS WORK SHALL BE INCLUDED IN THE BID PRICE FOR ITEM 900.645, SPECIAL PROVISION (TRAFFIC CONTROL, ALL-INCLUSIVE).
- TEMPORARY SIGNS LOCATED BEHIND GUARDRAIL SHALL BE INSTALLED SUCH THAT THE BOTTOM OF THE SIGN IS ABOVE THE HEIGHT OF THE GUARDRAIL. ALL CONSTRUCTION RELATED SIGNS SHALL BE PLACED SUCH THAT THEY DO NOT OBSTRUCT VISIBILITY OF EXISTING SIGNS.
- THE CONTRACTOR SHALL COORDINATE ANY PROPOSED TRAFFIC CONTROL MEASURES WITH ANY ABUTTING CONSTRUCTION PROJECTS.

**EROSION CONTROL**

- THE CONTRACTOR SHALL PERFORM EROSION CONTROL AS STATED IN SECTION 105 OF THE STATE OF VERMONT AGENCY OF TRANSPORTATION STANDARD SPECIFICATIONS FOR CONSTRUCTION, DATED 2011.
- THE CONTRACTOR SHALL ESTABLISH TURF ON ANY AREAS DISTURBED AS A RESULT OF WORK ON THIS PROJECT.
- ON THIS PROJECT THE ACCESS ROAD WILL BE DISTURBING WETLANDS, THIS WETLAND AREA SHALL BE RESTORED.
- A TEMPORARY PIPE WILL BE NEEDED TO ALLOW FLOW FROM THE WETLAND UNDER THE ACCESS ROAD. THIS PIPE HAS NOT BEEN DESIGNED, BUT IS SHOWN AS A 24" CAAP FOR ESTIMATION PURPOSES.
- SILT FENCE SHALL BE INSTALLED ALONG THE TOE OF SLOPES BELOW AREAS OF CONSTRUCTION ACCESS. NO WORK SHALL BE PERFORMED BELOW THOSE LIMITS, EXCEPT WITHIN THE LIMITS OF NEW STONE FILL.

**REINFORCING STEEL**

- MINIMUM CLEAR COVER FOR REINFORCING STEEL SHALL BE AS FOLLOWS:  
ALONG BACK FACES OF WALLS AGAINST EARTH: 2"  
ELSEWHERE UNLESS OTHERWISE INDICATED: 3"
- REINFORCEMENT STEEL PLACEMENT TOLERANCES SHALL BE:  
SPACING = +/- 1-INCH  
CLEARANCE = +/- 1/4-INCH

**CONCRETE**

- CONCRETE CLASSIFICATION AND SPECIFICATION SHALL BE AS FOLLOWS:  
INLET HEADWALL AND FOOTINGS: ITEM 501.34, CONCRETE, HIGH PERFORMANCE CLASS B  
OUTLET CRADLE HEADWALL: ITEM 541.25, CONCRETE, CLASS B  
WEIR BASE, GROUT, AND MORTAR: ITEM 541.25, CONCRETE, CLASS B  
FILLING VOIDS BELOW CULVERT CENTERLINE: ITEM 541.31, CONCRETE, CLASS D  
FILLING VOIDS ABOVE CULVERT CENTERLINE: ITEM 541.45, CONTROLLED DENSITY (FLOWABLE) FILL
- ALL EXPOSED EDGES OF CONCRETE SHALL BE CHAMFERED 1 INCH BY 1 INCH, UNLESS OTHERWISE NOTED.
- JOINTS AND SCORE MARKS IN CONCRETE SHALL BE CONSTRUCTED AS INDICATED ON THE PLANS OR AS DIRECTED BY THE ENGINEER.
- ANY KEY IN CONCRETE CONSTRUCTION JOINTS SHALL BE MONOLITHIC AND CONTINUOUS FOR THE FULL LENGTH OF THE JOINT UNLESS OTHERWISE INDICATED. ANY UPWARD KEY SHALL BE PLACED INTEGRALLY WITH THE CONCRETE BELOW THE JOINT.
- WATER REPELLENT, SILANE SHALL BE APPLIED TO ALL EXPOSED CONCRETE SURFACES. THIS SHALL BE DONE IN COMPLIANCE WITH ITEM 514.10, WATER REPELLENT, SILANE. APPLICATION RATE OF WATER REPELLENT, SILANE SHALL BE IN ACCORDANCE WITH THE MANUFACTURER'S RECOMMENDATIONS.

**PIPE REHABILITATION**

- THE CONTRACTOR SHALL BE RESPONSIBLE FOR PROVIDING TEMPORARY ACCESS TO ALL CULVERT REHABILITATION SITES. ALL RESULTING DISTURBED EARTH SHALL BE STABILIZED AND RESTORED UPON COMPLETION OF CONSTRUCTION. THIS SHALL BE DONE IN COMPLIANCE WITH ITEM 900.645, SPECIAL PROVISION (TEMPORARY ACCESS ROAD AND STAGING AREAS, CULVERT).
- CONTRACTOR IS RESPONSIBLE FOR PIPE DESIGN WITH SUBMITTAL AND ACCEPTANCE PRIOR TO INSTALLATION.
- STABILIZATION AND RESTORATION ASSOCIATED WITH THE TEMPORARY ACCESS SHALL BE THIS SHALL BE DONE IN COMPLIANCE WITH ITEM 900.645, SPECIAL PROVISION (TEMPORARY ACCESS ROAD AND STAGING AREAS, CULVERT).
- AT THE LOCATION SPECIFIED IN THESE PLANS, THE EXISTING CULVERT SHALL REMAIN. THE CONTRACTOR SHALL BE RESPONSIBLE FOR PREPARATION OF THE EXISTING PIPE TO THE SATISFACTION OF THE ENGINEER. IT IS ANTICIPATED THAT IT WILL BE NECESSARY FOR THE CONTRACTOR TO REMOVE SEDIMENT, LARGE STONES, AND/OR DEBRIS FROM INSIDE THE EXISTING CULVERT, AND TO FILL AND REPAIR LARGE HOLES IN THE EXISTING CULVERT, PRIOR TO INSTALLING THE NEW LINER.
- THE CONTRACTOR SHALL FILL ANY VOIDS BELOW THE CENTER OF THE CULVERT FROM WITHIN THE CULVERT BEFORE INSTALLING THE LINER. THIS WORK SHALL BE DONE IN COMPLIANCE WITH ITEM 541.31, CONCRETE, CLASS D. (AN ESTIMATED AMOUNT OF 10 CY OF CONCRETE, CLASS D HAS BEEN INCLUDED FOR FILLING VOIDS.)
- THE CONTRACTOR SHALL FILL ANY VOIDS ABOVE THE CENTER OF THE CULVERT FROM WITHIN THE CULVERT BEFORE INSTALLING THE LINER. THIS WORK THIS SHALL BE DONE IN COMPLIANCE WITH ITEM 541.45, CONTROLLED DENSITY (FLOWABLE) FILL. (AN ESTIMATED AMOUNT OF 10 CY OF CONTROLLED DENSITY (FLOWABLE) FILL HAS BEEN INCLUDED FOR FILLING VOIDS.)
- THE EXISTING HEADWALL AT THE INLET, AND EXISTING PIPE AS SHOWN ON THE HEADWALL DETAILS, SHALL BE REMOVED UNDER ITEM 529.20, PARTIAL REMOVAL OF STRUCTURE, SEE HEADWALL DETAILS SHEETS.
- A NEW FULLY BEVELED HEADWALL SHALL BE CONSTRUCTED AT THE INLET OF THE CULVERT. A CRADLE HEADWALL SHALL BE CONSTRUCTED AT THE OUTLET OF THE CULVERT. SEE HEADWALL DETAILS SHEETS. THE NEW HEADWALLS SHALL BE CONSTRUCTED IN THE DRY. CONTROL OF WATER SHALL BE DONE IN COMPLIANCE WITH ITEM 900.645, SPECIAL PROVISION (TEMPORARY RELOCATION OF STREAM).
- THE CONTRACTOR SHALL VERIFY THAT THE RECOMMENDED SIZE LINER WILL FIT IN THE EXISTING PIPE BEFORE ORDERING THE LINER PIPE. SHOULD THE CONTRACTOR DISCOVER THAT THE RECOMMENDED SIZE LINER WILL NOT FIT IN THE EXISTING PIPE, THEN THE CONTRACTOR SHALL NOTIFY THE RESIDENT ENGINEER. ANY CHANGES TO THE PROPOSED SIZE OF THE LINER WILL BE PAID FOR AS EXTRA WORK.
- THE CONTRACTOR SHALL DEVELOP A SYSTEM OF SKIDS AND BLOCKING TO HOLD THE LINER IN PROPER POSITION DURING THE GROUTING OPERATION.
- THERE WILL NEED TO BE A CLEAR AREA EQUAL TO THE PIPE SEGMENT LENGTH PLUS FIVE FEET IN FRONT OF THE INSTALLATION POINT TO PERMIT PROPER PIPE INSERTION.
- AN ADDITIONAL 10 CY OF STONE FILL, TYPE III, IS PROVIDED FOR ENERGY DISSIPATION.

**ITEMS TO BE PAID FOR UNDER LUMP SUM PROJECT**

ESTIMATED QUANTITY	UNIT	ITEM	ITEM NUMBER
460	CY	UNCLASSIFIED CHANNEL EXCAVATION	203.27
490	CY	STRUCTURE EXCAVATION	204.25
390	CY	GRANULAR BACKFILL FOR STRUCTURES	204.30
75	CY	AGGREGATE SURFACE COURSE	401.10
110	CY	CONCRETE, HPC B	501.34
14,000	LB	REINFORCING STEEL, LEVEL I	507.11
	LF	DRILLING AND GROUTING DOWELS	507.16
10	GAL	WATER REPELLANT, SILANE	514.10
1	EACH	PARTIAL REMOVAL OF STRUCTURE	529.20
	CY	CONCRETE, CLASS B	541.25
10	CY	CONCRETE, CLASS D	541.31
10	CY	CONTROLLED DENSITY (FLOWABLE) FILL	541.45
18	LF	24" CAAP .060	601.0225
	CY	STONE FILL, TYPE III	613.12
420	CY	STONE FILL, TYPE IV	613.13
20	LF	WOVEN WIRE FENCE WITH STEEL POSTS	620.25
1	LS	FIELD OFFICE, ENGINEERS	631.10
1	LS	TESTING EQUIPMENT, CONCRETE	631.16
1	LS	TESTING EQUIPMENT, PROTECTIVE COATINGS	631.18
3000	DL	FIELD OFFICE TELEPHONE (N.A.B.I.)	631.26
430	SY	GEOTEXTILE FOR ROADBED SEPARATOR	649.11
360	SY	GEOTEXTILE UNDER STONE FILL	649.31
100	SY	GEOTEXTILE FOR SILT FENCE	649.51
10	LB	SEED	651.15
25	LB	FERTILIZER	651.18
1	TON	AGRICULTURAL LIMESTONE	651.20
1	TON	HAY MULCH	651.25
140	SY	GRUBBING MATERIAL	651.40
35	CY	VEHICLE TRACKING PAD	653.35
1000	LF	PROJECT DEMARCATION FENCE	653.55
134	LF	SPECIAL PROVISION (CORRUGATED PIPE LINER, CAAP) (108") (EXISTING 120" PIPE)	900.640
1	LS	SPECIAL PROVISION (TEMPORARY RELOCATION OF STREAM)	900.645

**ITEMS TO BE PAID FOR UNDER SPECIAL PROVISION (TRAFFIC CONTROL, ALL INCLUSIVE)**

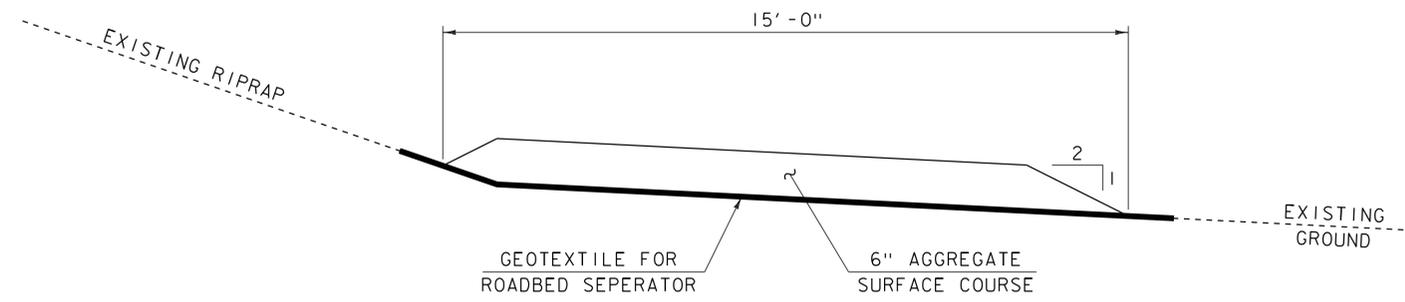
ESTIMATED QUANTITY	UNIT	ITEM	ITEM NUMBER
500	HR	UNIFORMED TRAFFIC OFFICERS	630.10
150	HR	FLAGGERS	630.15
2	EACH	PORTABLE CHANGEABLE MESSAGE SIGN	641.15
2	EACH	PORTABLE ARROW BOARD	641.16
500	SF	TRAFFIC SIGNS, TYPE A	675.20

**TRAFFIC DATA I-91 SOUTHBOUND**

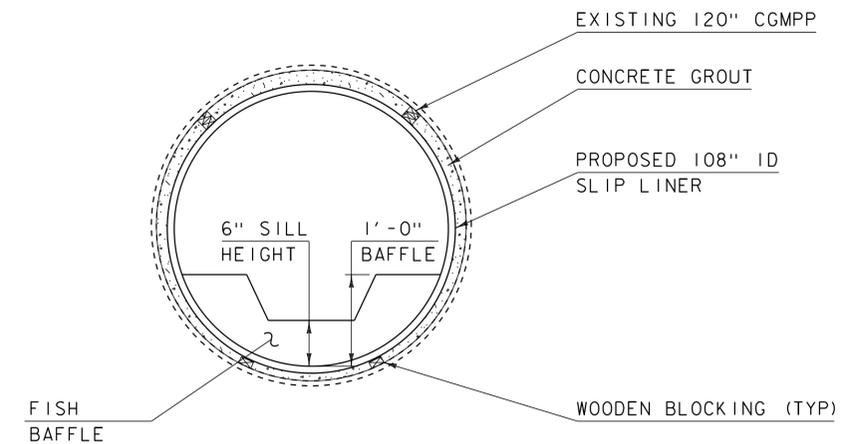
YEAR	ADT	DHV	%D	%T	ADTT
2015	2700	360	100	17.4	780
2035	3000	410	100	20.5	1000

PROJECT NAME: RYEGATE  
PROJECT NUMBER: IM CULV(28)

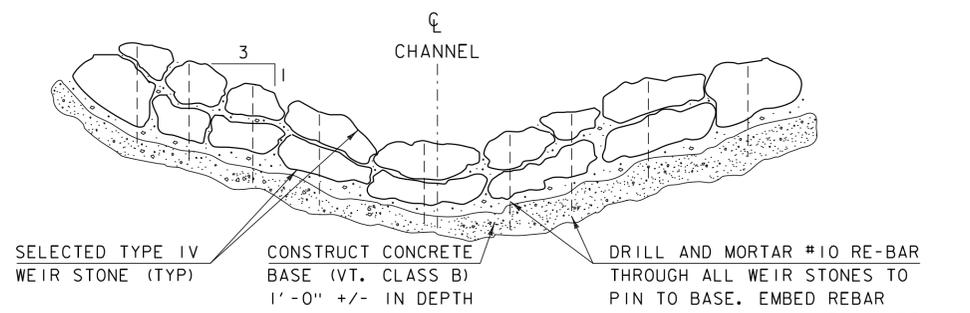
FILE NAME: Ila262/slla262for.ms.dgn PLOT DATE: 11-MAR-2016  
PROJECT LEADER: W.PELLETIER DRAWN BY: D.D.BEARD  
DESIGNED BY: W.PELLETIER CHECKED BY: W.PELLETIER  
PROJECT NOTES SHEET 2 OF 14



**TEMPORARY ACCESS ROAD TYPICAL SECTION**  
NOT TO SCALE



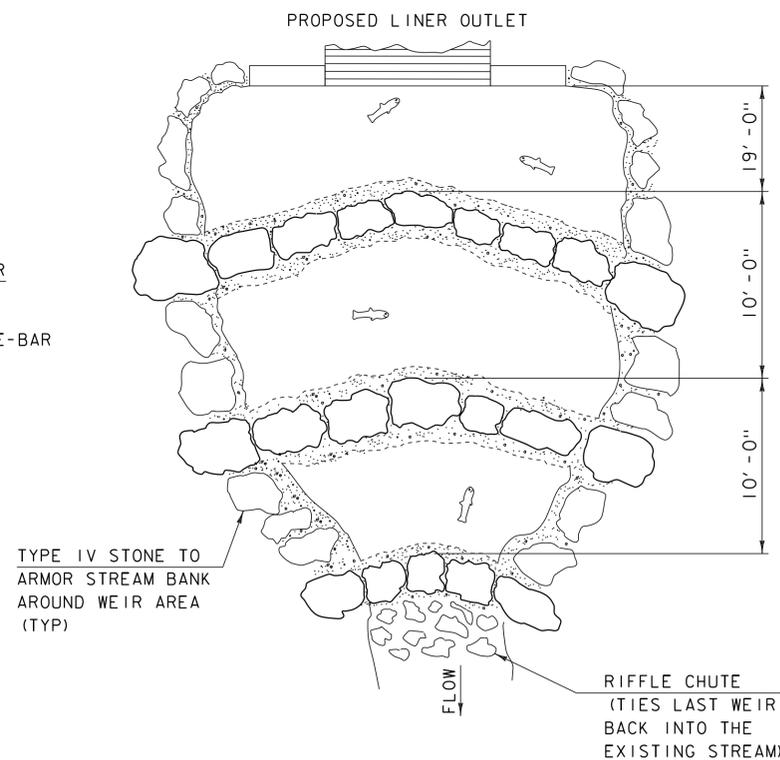
**CULVERT TYPICAL SECTION**  
NOT TO SCALE



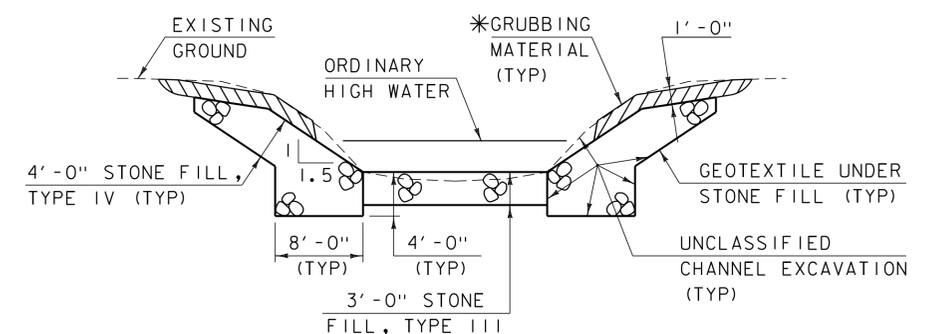
**BACK-WATERING WEIR SECTION VIEW DETAIL**  
NOT TO SCALE

**NOTES:**

- (1) THERE WILL BE FISH BAFFLES IN THE LINER AT A 6" SILL HEIGHT AND A 7'-3" SPACING. THE FINAL BAFFLE DESIGN WILL BE VERIFIED BY THE MANUFACTURER.
- (2) THERE WILL BE NO MORE THAN 6" TO 8" DIFFERENCE IN ELEVATION BETWEEN THE BACK WATERING WEIRS AT THE OUTLET.
- (3) THE CENTER OF THE BACK WATERING WEIRS WILL BE LOWER IN ELEVATION THAN AT THE STREAM BANK.
- (4) WEIRS WILL BE RECESSED 6' INTO THE STREAM BANK TO PREVENT WATER BYPASSING AROUND THE BACKSIDE OF THE WEIRS.
- (5) ITEM 541.25 CONCRETE, CLASS B, WILL BE ROUGHLY FORMED AND VIBRATED INTO ALL VOIDS BETWEEN THE WEIR STONE SYSTEM.
- (6) WEIRS WILL POINT UPSTREAM AT THE CENTER OF THE WEIR SYSTEM (SEE DETAIL).
- (7) THE STREAM BANK WILL BE ARMORED WITH TYPE IV STONE AROUND THE PERIMETER OF THE WEIR AREA.



**BACK-WATERING WEIR PLAN VIEW DETAIL**  
NOT TO SCALE



**TYPICAL CHANNEL SECTION**  
(NOT TO SCALE)

\*WHENEVER CHANNEL SLOPE INTERSECTS ROADWAY SUBBASE, GRUBBING MATERIAL SHALL BEGIN AT THE BOTTOM OF SUBBASE.

**MATERIAL TOLERANCES**  
(IF USED ON PROJECT)

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

PROJECT NAME: RYEGATE  
PROJECT NUMBER: IM CULV(28)

FILE NAME: Ila262/slla262+typical.dgn  
PROJECT LEADER: W.PELLETIER  
DESIGNED BY: W.PELLETIER  
TYPICAL SECTIONS

PLOT DATE: 11-MAR-2016  
DRAWN BY: D.D.BEARD  
CHECKED BY: W.PELLETIER  
SHEET 3 OF 14

GPS/NGS CONTROL POINTS

VTRANS NOTE, AUGUST 2013  
 GEODETIC CONTROL WAS ESTABLISHED FROM A STATIC GPS SURVEY ON TEMPORARY MARKS. NO DESCRIPTIONS ARE AVAILABLE.  
 HORIZONTAL VALUES WERE DERIVED FROM A NETWORK ADJUSTMENT TIED TO THE FOLLOWING CONTINUOUSLY OPERATING REFERENCE STATIONS (CORS): VCAP MONTPELIER, VTOX BRADFORD, VTD7 ST. JOHNSBURY  
 ELEVATIONS WERE COMPUTED FROM A NETWORK ADJUSTMENT USING GEOID 09 AND LOCAL TIES TO THE FOLLOWING BENCHMARKS: VERMONT HIGHWAY DEPARTMENT BENCH MARK MPH 5 1966

A 57

PID PG1263  
 NORTH = 618991.200  
 EAST = 1753307.622  
 ELEV. = 562.332

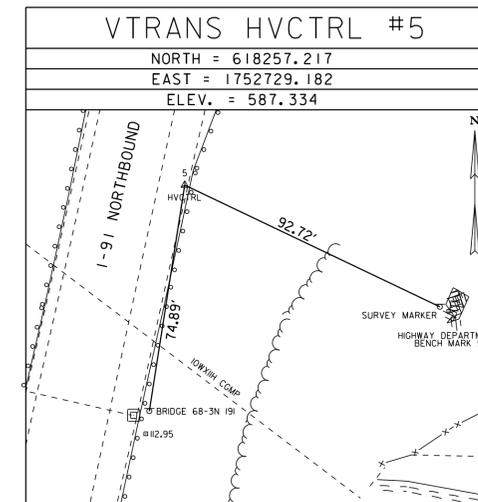
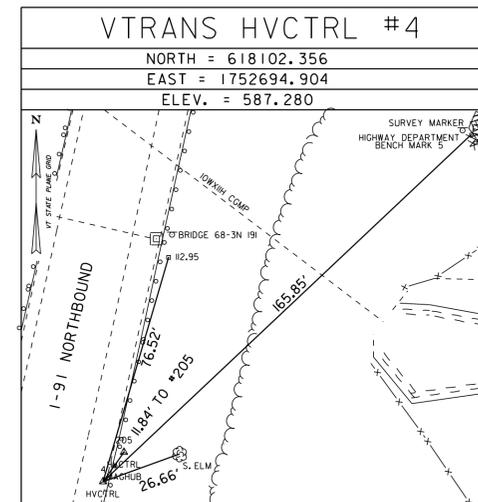
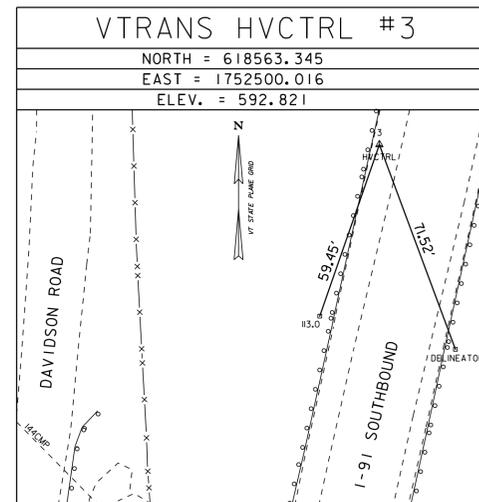
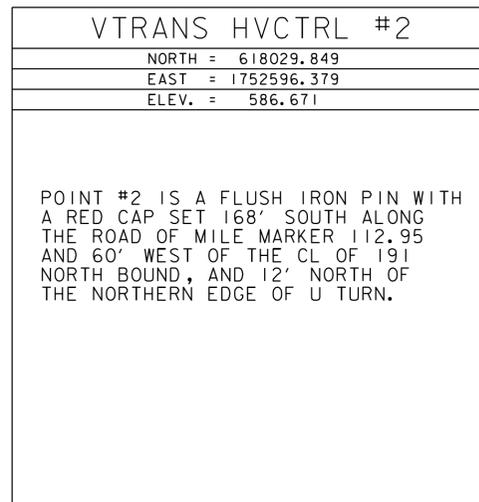
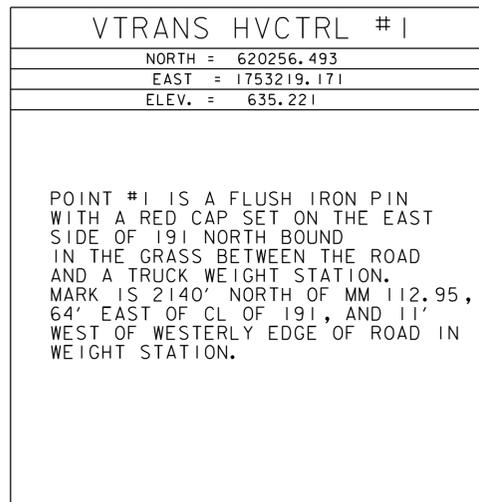
DESCRIBED BY NATIONAL GEODETIC SURVEY 1978. 0.6 MI SOUTH FROM EAST RYEGATE. 0.6 MILE SOUTH ALONG STATE HIGHWAY 5 FROM THE JUNCTION OF MILL ROAD AND HIGHWAY 5 IN EAST RYEGATE TO THE MARK ON THE RIGHT SET IN FRONT OF POWER POLE NUMBER 6K-8Y2, 104 FEET NORTHEAST OF A PAVED ROAD LEADING NORTHWEST AND UNDER US HIGHWAY 91, 40 FEET SOUTHWEST OF THE CENTER OF A BOX CULVERT RUNNING UNDER THE HIGHWAY, 39.5 FEET NORTHWEST OF THE CENTER LINE OF THE HIGHWAY, 2 FEET SOUTHEAST OF THE POWER POLE.

GMI 5 VTDH

PID PG0252  
 NORTH = 620922.647  
 EAST = 1753413.500  
 ELEV. = 630.930

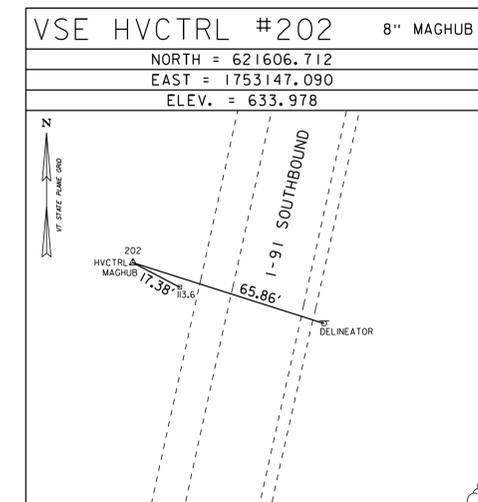
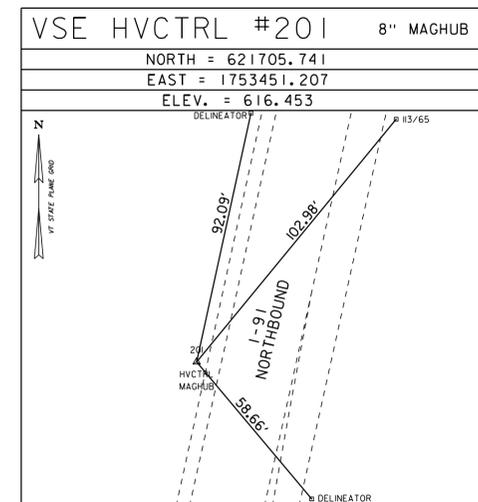
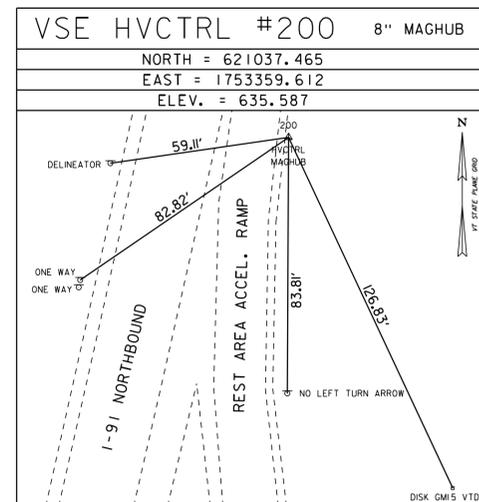
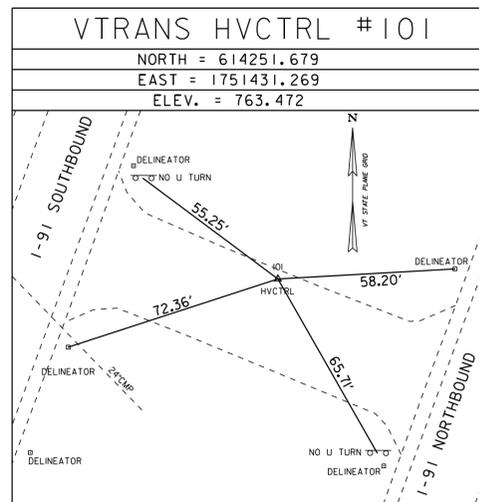
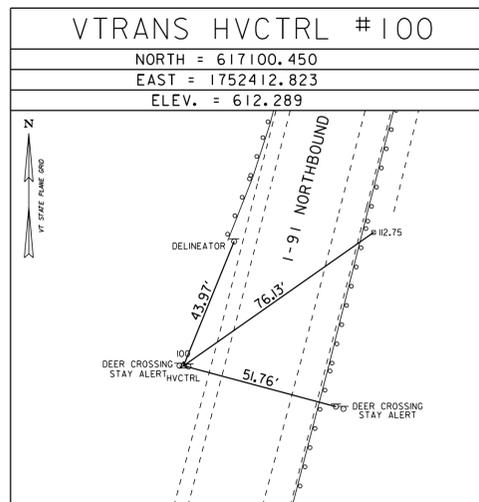
DESCRIBED BY VT DEPT OF HIGHWAYS 1976. 0.6 MI WSW FROM EAST RYEGATE. TO REACH FROM THE INTERSECTION OF U.S. RT. 302 AND RT. 191 WEST OF WELLS RIVER GO NORTH TO THE NEWBURG-RYEGATE TOWN LINE, THENCE 2.64 MILES FURTHER NORTH TO SITE OF BENCHMARK, 113 FT. EAST OF THE CENTERLINE, 1.5 FT. SOUTHWEST OF MPH 6, 73.4 FT. NORTHWEST OF THE EAST END OF A 24-INCH CONCRETE PIPE, 9.9 FT. EAST OF A 8-INCH PINE, 162 FT. WEST OF ROW FENCE. 2 FEET ABOVE GROUND, 0.4 MILES NORTH OF BENCH MARK GM1-4 1976.

TRAVERSE TIES



\* VTRANS MAIN TRAVERSE COMPLETED BY R. GILMAN, P. WINTERS & C. CYR \* VSE SURVEY COMPLETED: OCTOBER 17, 2013, M. YEFCHAK-PC, T. YEFCHAK

TRAVERSE TIES



DATUM	
VERTICAL	NAVD 88
HORIZONTAL	NAD 83(07)
ADJUSTMENT	COMPASS

PROJECT NAME: RYEGATE	
PROJECT NUMBER: IM CULV (28)	
FILE NAME: \$FILES\$	PLOT DATE: 11-MAR-2016
PROJECT LEADER: W. PELLETIER	DRAWN BY: M. DAMES
DESIGNED BY: J. ALBERT	CHECKED BY: D. GOZALKOWSKI
TIE SHEET	SHEET 4 OF 14

**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 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 RADUIS 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
—	STRUCTURE SUBSURFACE
PDF	PROJECT DEMARCATION FENCE
BF	BARRIER FENCE
—	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
P	PROPERTY LINE (P/L)
SR	SLOPE RIGHTS
6f	6F PROPERTY BOUNDARY
4f	4F PROPERTY BOUNDARY
HAZ	HAZARDOUS WASTE

**EPSC LAYOUT PLAN SYMBOLGY**

**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 SYMBOLGY

**ENVIRONMENTAL RESOURCES**

—	WETLAND BOUNDARY
—	RIPARIAN BUFFER ZONE
—	WETLAND BUFFER ZONE
—	SOIL TYPE BOUNDARY
T&E	THREATENED & ENDANGERED SPECIES
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

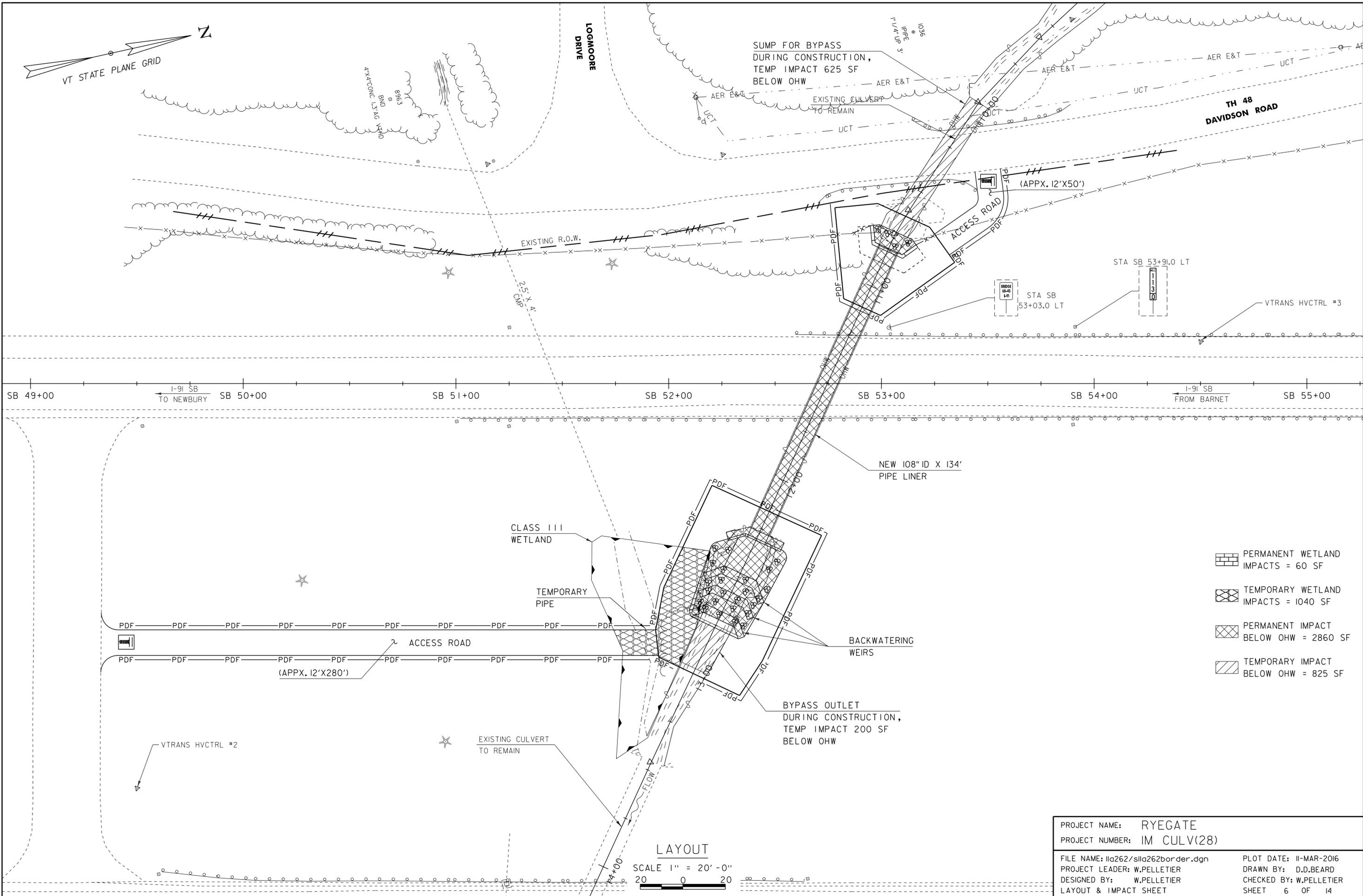
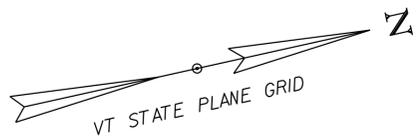
**CONVENTIONAL TOPOGRAPHIC SYMBOLGY**

**EXISTING FEATURES**

—	ROAD EDGE PAVEMENT
—	ROAD EDGE GRAVEL
—	DRIVEWAY EDGE
—	DITCH
—	FOUNDATION
—	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: RYEGATE  
PROJECT NUMBER: IM CULV(28)

FILE NAME: Ila262/slla262form.ms.dgn PLOT DATE: 11-MAR-2016  
PROJECT LEADER: W.PELLETIER DRAWN BY: M.LONGSTREET  
DESIGNED BY: ----- CHECKED BY: -----  
SYMBOLGY LEGEND SHEET 5 OF 14



SB 49+00      I-91 SB TO NEWBURY      SB 50+00      SB 51+00      SB 52+00      SB 53+00      SB 54+00      I-91 SB FROM BARNET      SB 55+00

CLASS III WETLAND

TEMPORARY PIPE

ACCESS ROAD (APPX. 12'X280')

EXISTING CULVERT TO REMAIN

NEW 108" ID X 134' PIPE LINER

BACKWATERING WEIRS

BYPASS OUTLET DURING CONSTRUCTION, TEMP IMPACT 200 SF BELOW OHW

EXISTING CULVERT TO REMAIN

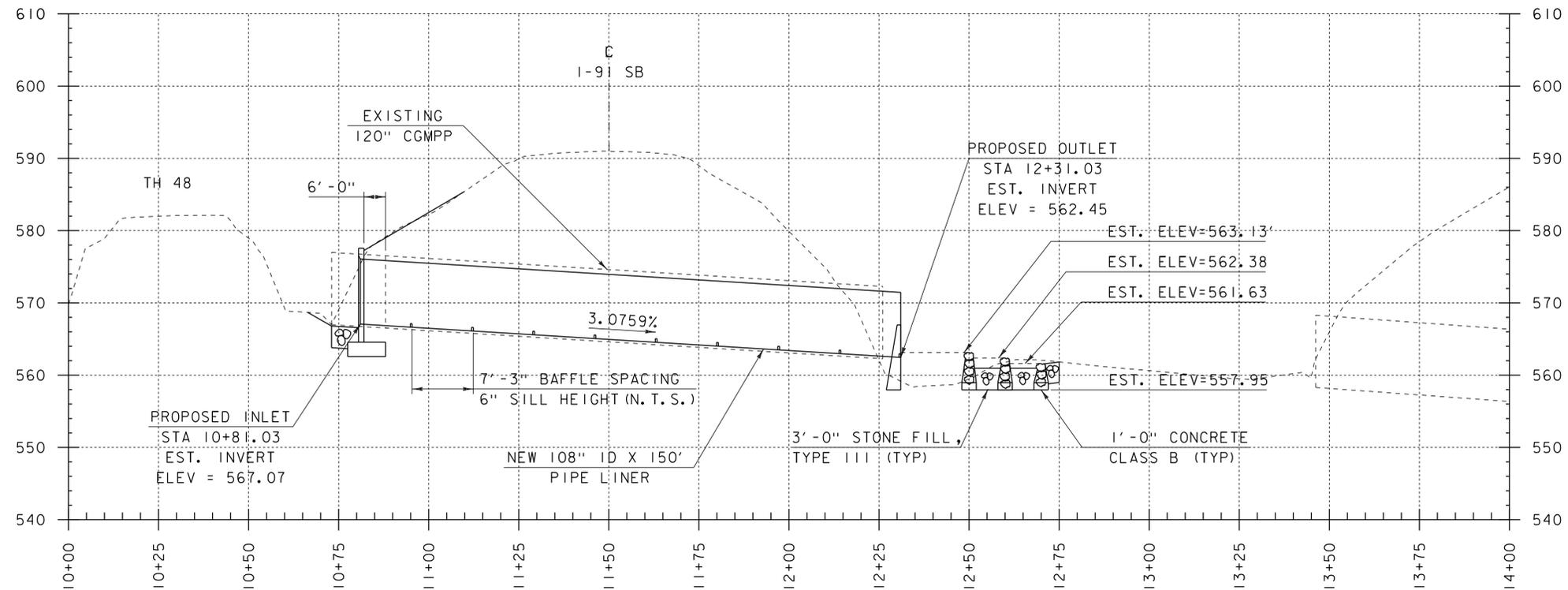
ACCESS ROAD (APPX. 12'X50')

SUMP FOR BYPASS DURING CONSTRUCTION, TEMP IMPACT 625 SF BELOW OHW

-  PERMANENT WETLAND IMPACTS = 60 SF
-  TEMPORARY WETLAND IMPACTS = 1040 SF
-  PERMANENT IMPACT BELOW OHW = 2860 SF
-  TEMPORARY IMPACT BELOW OHW = 825 SF

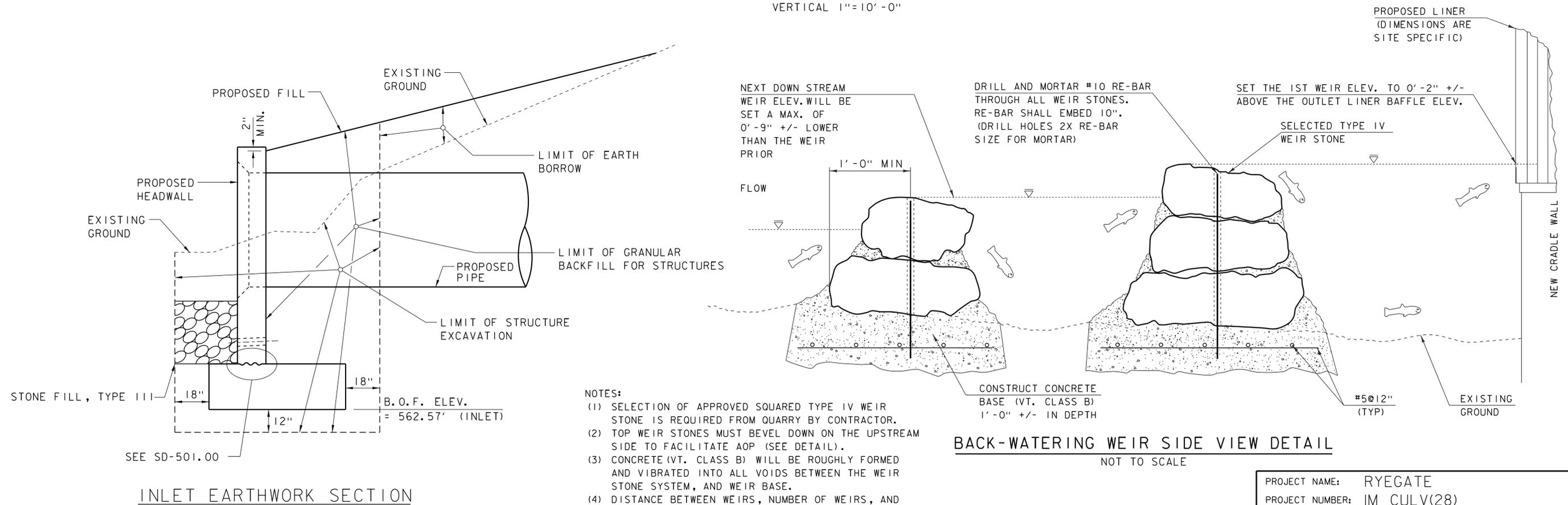
LAYOUT  
SCALE 1" = 20'-0"  
0 20

PROJECT NAME: RYEGATE	PLOT DATE: 11-MAR-2016
PROJECT NUMBER: IM CULV(28)	DRAWN BY: D.D.BEARD
FILE NAME: I1a262/s11a262border.dgn	CHECKED BY: W.PELLETIER
PROJECT LEADER: W.PELLETIER	SHEET 6 OF 14
DESIGNED BY: W.PELLETIER	
LAYOUT & IMPACT SHEET	



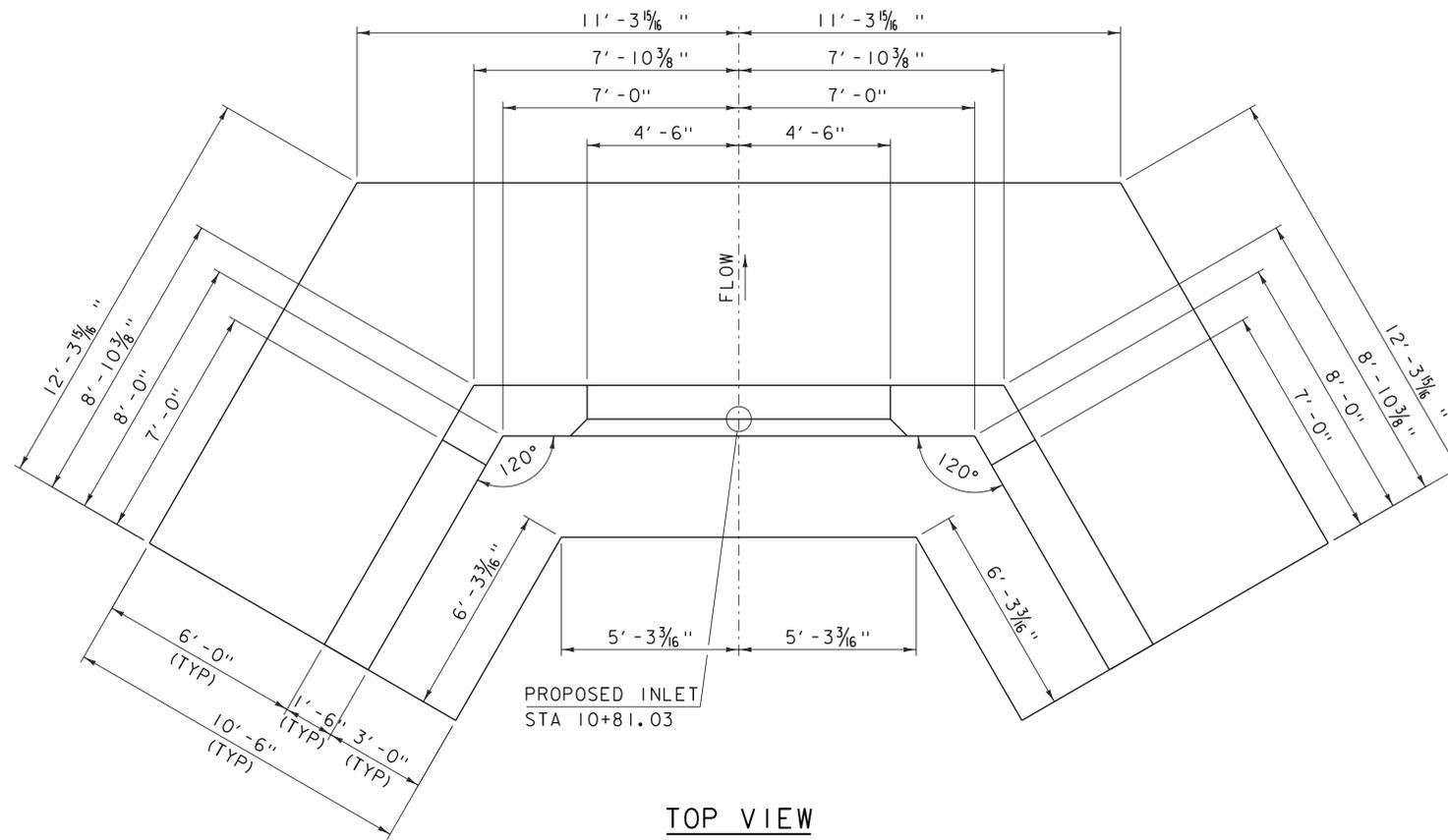
**INTERSTATE 91 CULVERT 68-4S PROFILE**

SCALE: HORIZONTAL 1"=20'-0"  
VERTICAL 1"=10'-0"

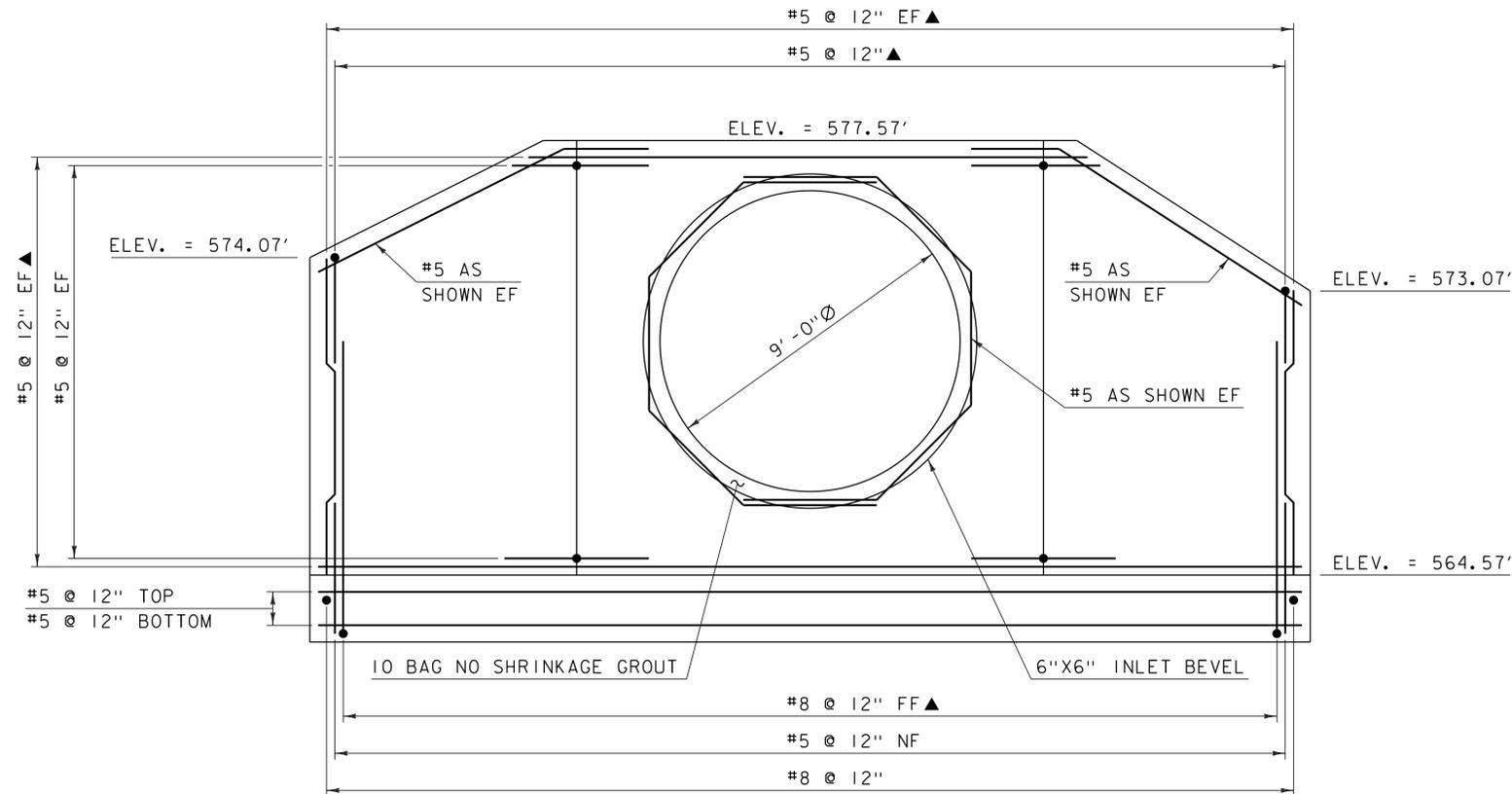


- NOTES:
- (1) SELECTION OF APPROVED SQUARED TYPE IV WEIR STONE IS REQUIRED FROM QUARRY BY CONTRACTOR.
  - (2) TOP WEIR STONES MUST BEVEL DOWN ON THE UPSTREAM SIDE TO FACILITATE AOP (SEE DETAIL).
  - (3) CONCRETE (VT. CLASS B) WILL BE ROUGHLY FORMED AND VIBRATED INTO ALL VOIDS BETWEEN THE WEIR STONE SYSTEM, AND WEIR BASE.
  - (4) DISTANCE BETWEEN WEIRS, NUMBER OF WEIRS, AND WEIR HEIGHT, IS SITE SPECIFIC AND IS DEPENDENT UPON THE AMOUNT OF PERCH DROP BEING BACK-WATERED AND THE LENGTH AND DEPTH OF THE SITE'S PLUNGE POOL BEING RETROFITTED.

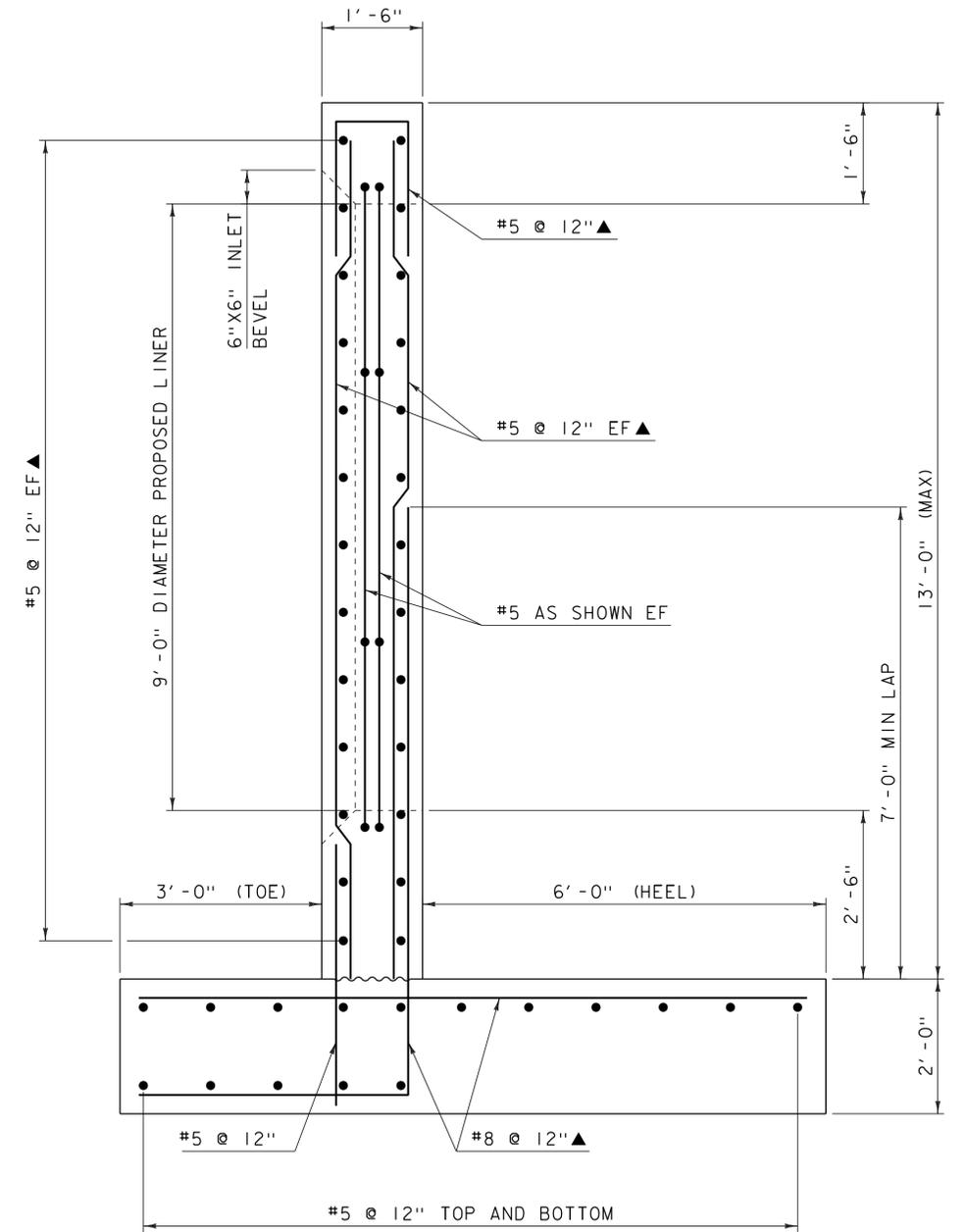
PROJECT NAME:	RYEGATE	PLOT DATE:	11-MAR-2016
PROJECT NUMBER:	IM CULV(28)	DRAWN BY:	D.D.BEARD
FILE NAME:	11a262/s11a262profile.dgn	DESIGNED BY:	W.PELLETIER
PROJECT LEADER:	W.PELLETIER	CHECKED BY:	W.PELLETIER
PROFILE SHEET			SHEET 7 OF 14



**TOP VIEW**  
SCALE 3/8" = 1'-0"



**FRONT VIEW**  
SCALE 3/8" = 1'-0"  
ALONG FACE OF WALL



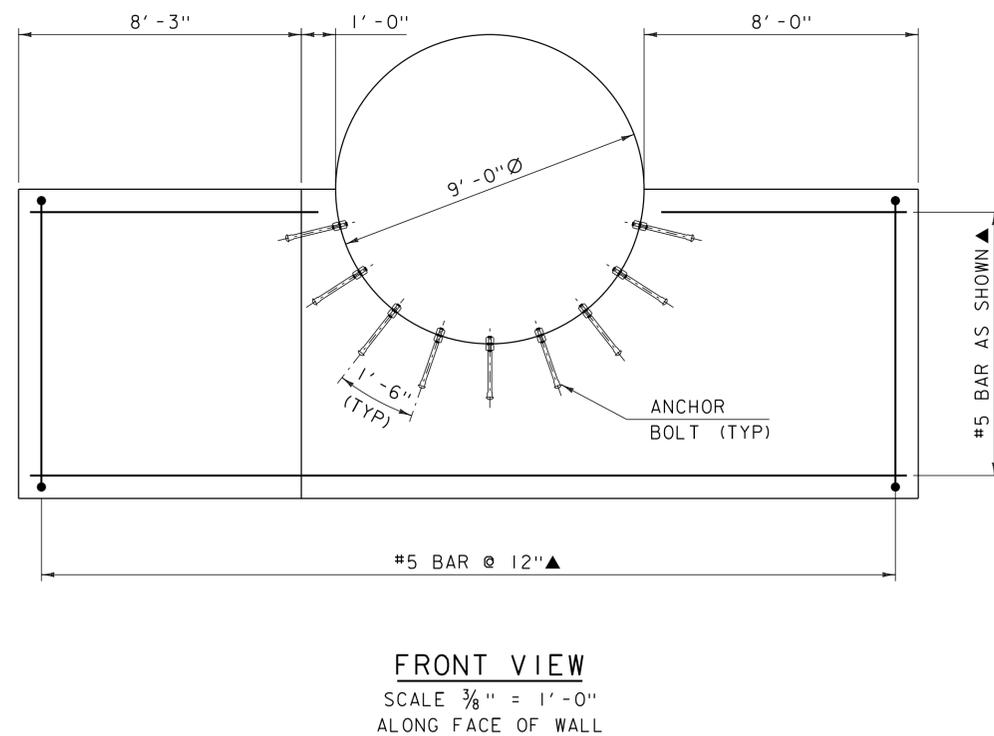
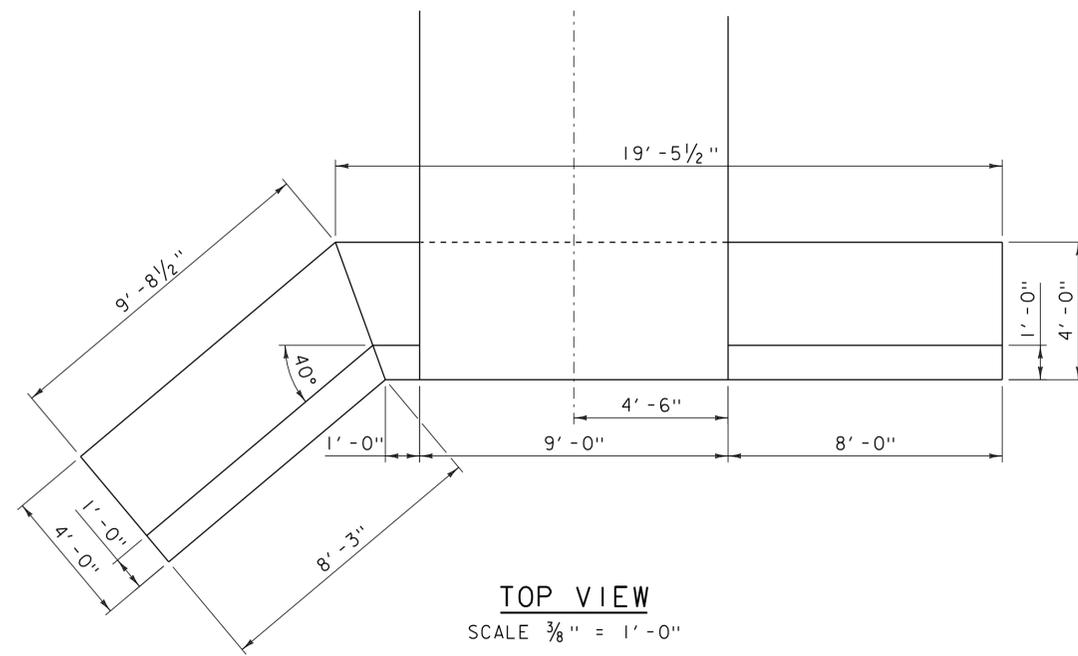
**TYPICAL SECTION**  
SCALE 3/4" = 1'-0"

**NOTE:**

NF = NEAR FACE  
FF = FAR FACE  
EF = EACH FACE  
▲ = CUT TO FIT IN FIELD  
3" CLEAR, UNLESS OTHERWISE SPECIFIED ON THE PLANS.  
2'-2" BAR LAP UNLESS OTHERWISE SPECIFIED ON THE PLANS.

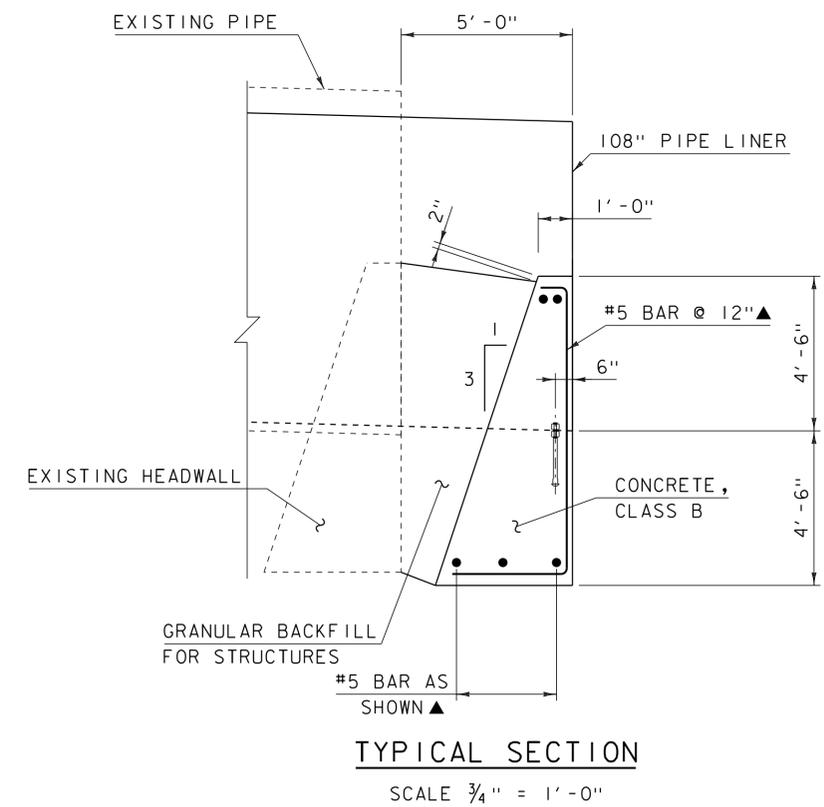
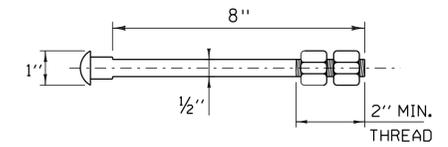
PROJECT NAME: RYEGATE  
PROJECT NUMBER: IM CULV(28)

FILE NAME: Ila262/slla262structure.dgn PLOT DATE: 11-MAR-2016  
PROJECT LEADER: W.PELLETIER DRAWN BY: D.D.BEARD  
DESIGNED BY: W.PELLETIER CHECKED BY: W.PELLETIER  
INLET HEADWALL DETAILS SHEET 8 OF 14



**ANCHOR BOLT NOTES**

1. ANCHOR BOLTS ARE REQUIRED ON NON-CONCRETE CULVERTS AND ARE TO BE INCLUDED IN THE COST OF THE PIPE.
2. ANCHOR BOLTS SHALL BE  $\frac{1}{2}$ " DIA. x 8" WITH TWO  $\frac{3}{4}$ " HEXAGONAL NUTS, MATERIALS SHALL MEET THE REQUIREMENTS OF ASTM A307.  $\frac{3}{16}$ " HOLES IN PIPE TO BE DRILLED OR PUNCHED PRIOR TO COATING OF PIPE, OR FIELD DRILLED AND COATED WHEN REQUIRED DUE TO A FIELD CHANGE.

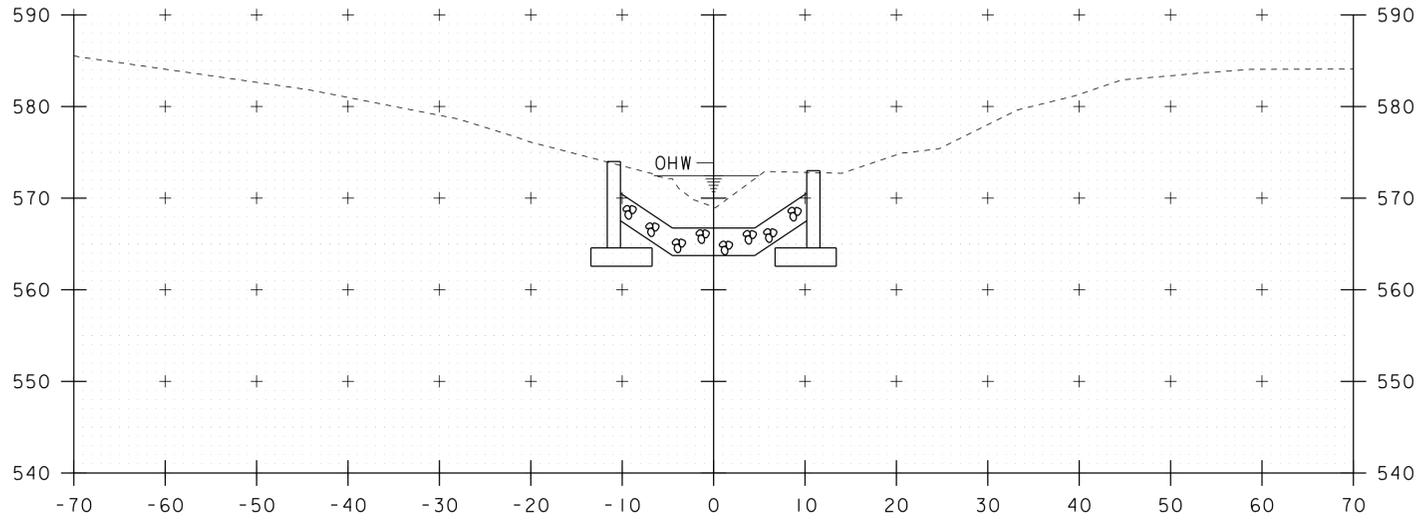


**NOTE:**

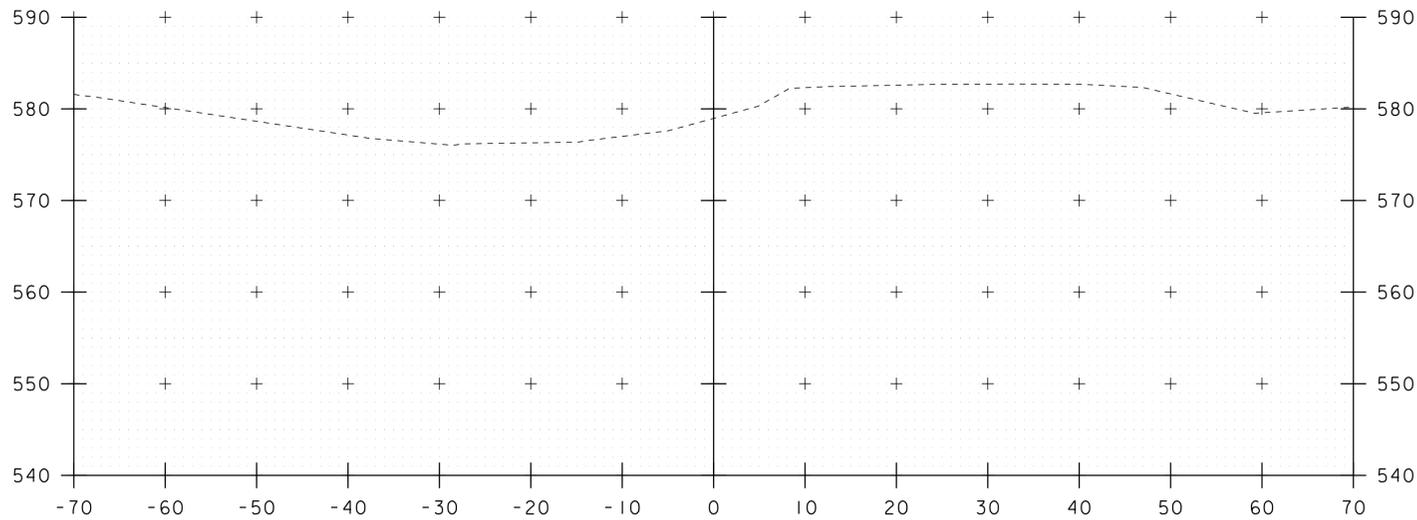
- NF = NEAR FACE
- FF = FAR FACE
- EF = EACH FACE
- ▲ = CUT TO FIT IN FIELD
- 3" CLEAR, UNLESS OTHERWISE SPECIFIED ON THE PLANS.
- 2'-2" BAR LAP UNLESS OTHERWISE SPECIFIED ON THE PLANS.

PROJECT NAME: RYEGATE	
PROJECT NUMBER: IM CULV(28)	
FILE NAME: Ila262/slla262structure.dgn	PLOT DATE: 11-MAR-2016
PROJECT LEADER: W.PELLETIER	DRAWN BY: D.D.BEARD
DESIGNED BY: W.PELLETIER	CHECKED BY: W.PELLETIER
OUTLET HEADWALL DETAILS	SHEET 9 OF 14

STA 10+80.50  
 END UNCLASSIFIED CHANNEL EXCAVATION  
 END GEOTEXTILE UNDER STONE FILL  
 END STONE FILL, TYPE III  
 END GRUBBING MATERIAL

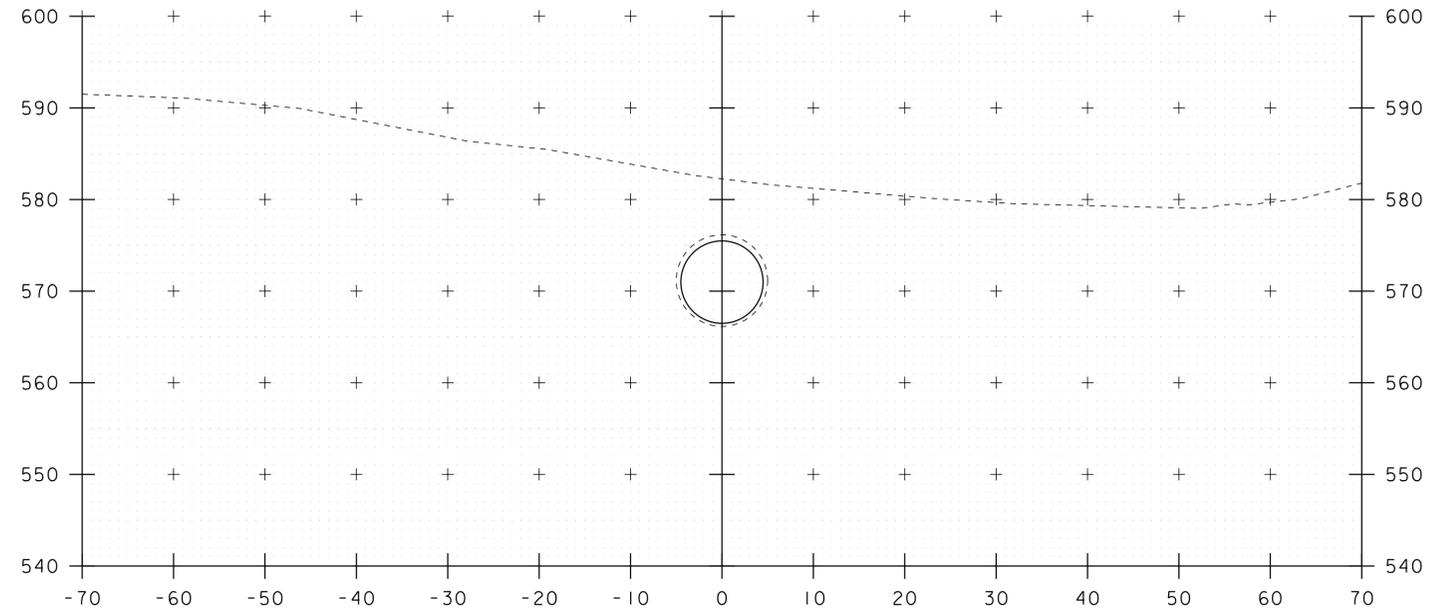


10+75

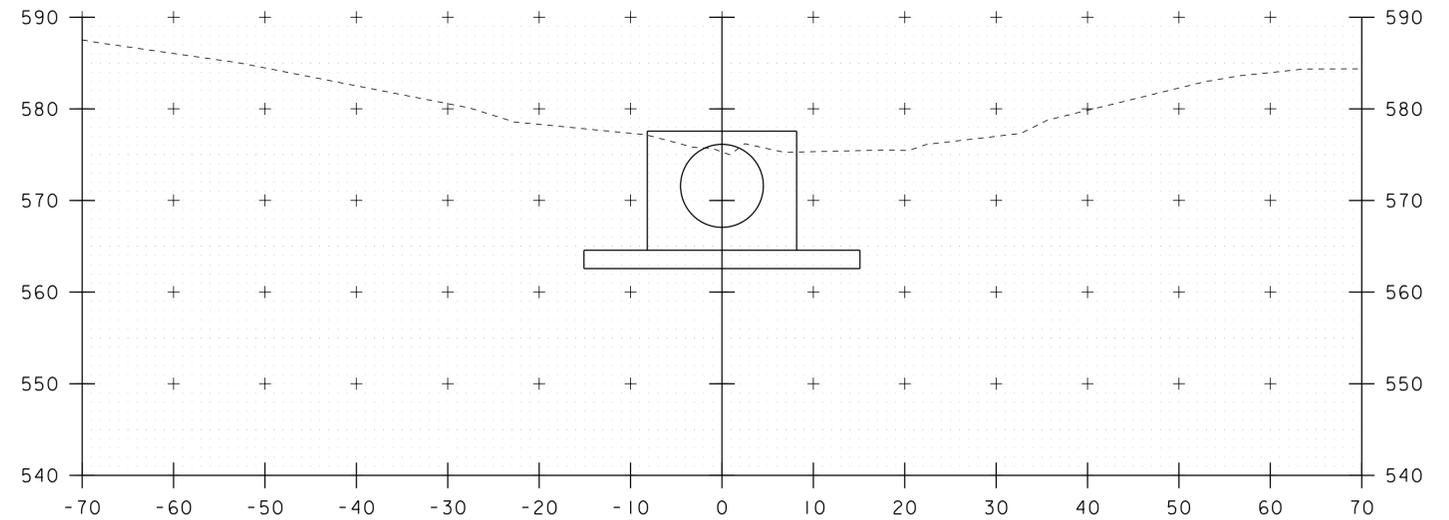


10+50

STA 10+72.00  
 BEGIN UNCLASSIFIED CHANNEL EXCAVATION  
 BEGIN GEOTEXTILE UNDER STONE FILL  
 BEGIN STONE FILL, TYPE III  
 BEGIN GRUBBING MATERIAL



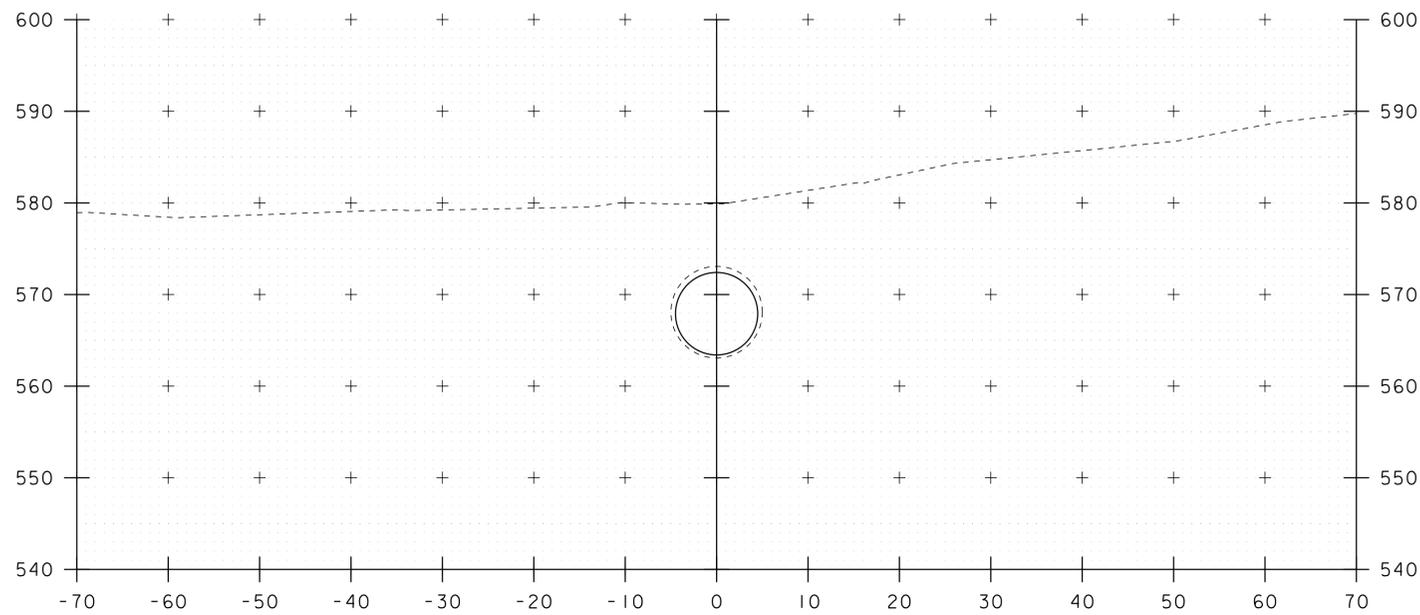
11+00



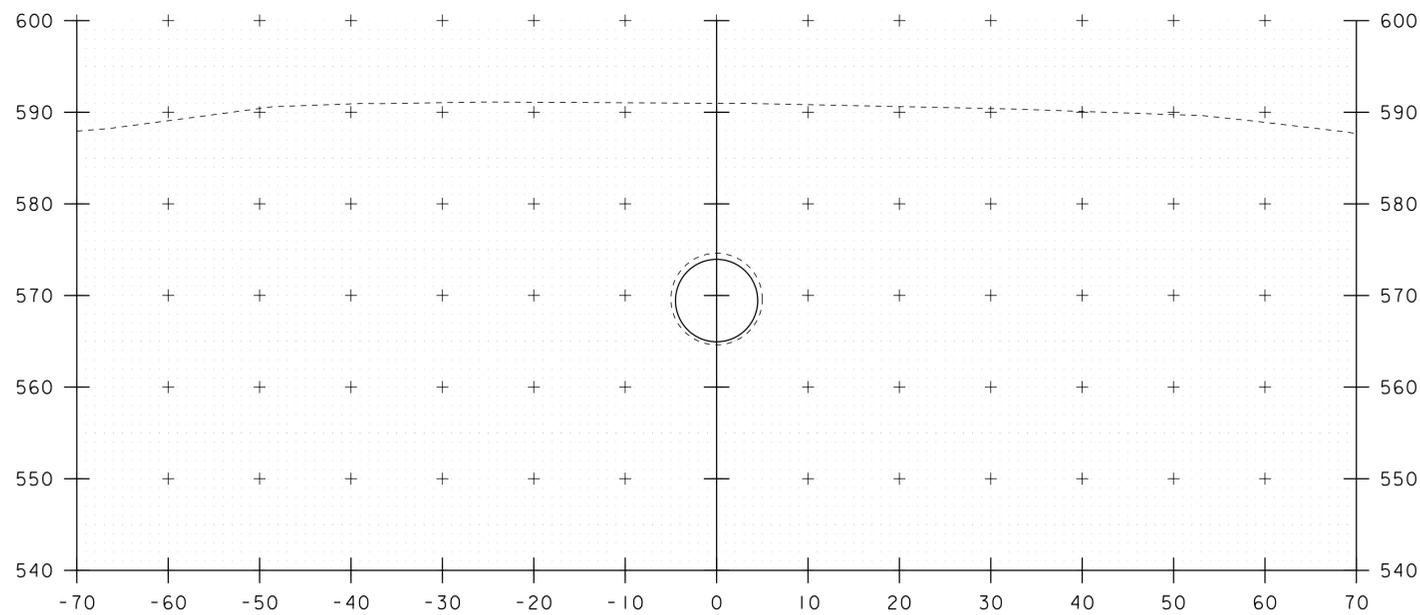
10+81

STA. 10+50 TO STA. 11+00

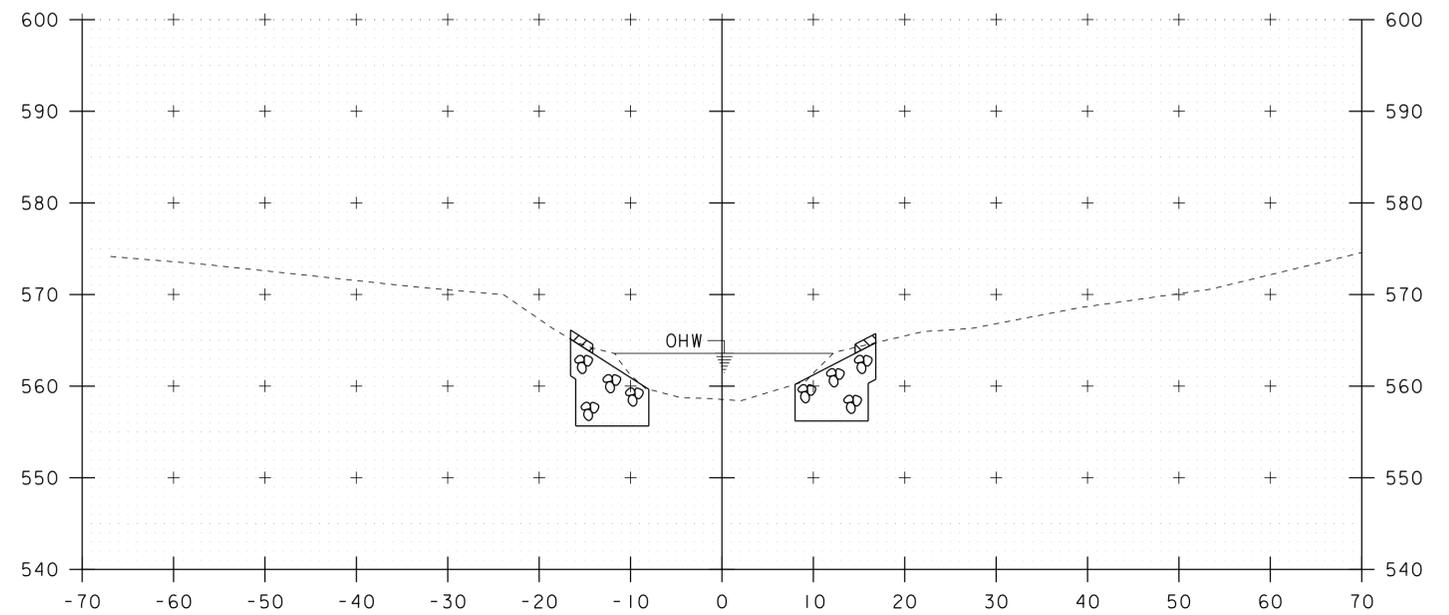
PROJECT NAME: RYEGATE	
PROJECT NUMBER: IM CULV(28)	
FILE NAME: Ila262/slla262xs.dgn	PLOT DATE: 11-MAR-2016
PROJECT LEADER: W.PELLETIER	DRAWN BY: D.D.BEARD
DESIGNED BY: W.PELLETIER	CHECKED BY: W.PELLETIER
CHANNEL CROSS SECTIONS 1	SHEET 10 OF 14



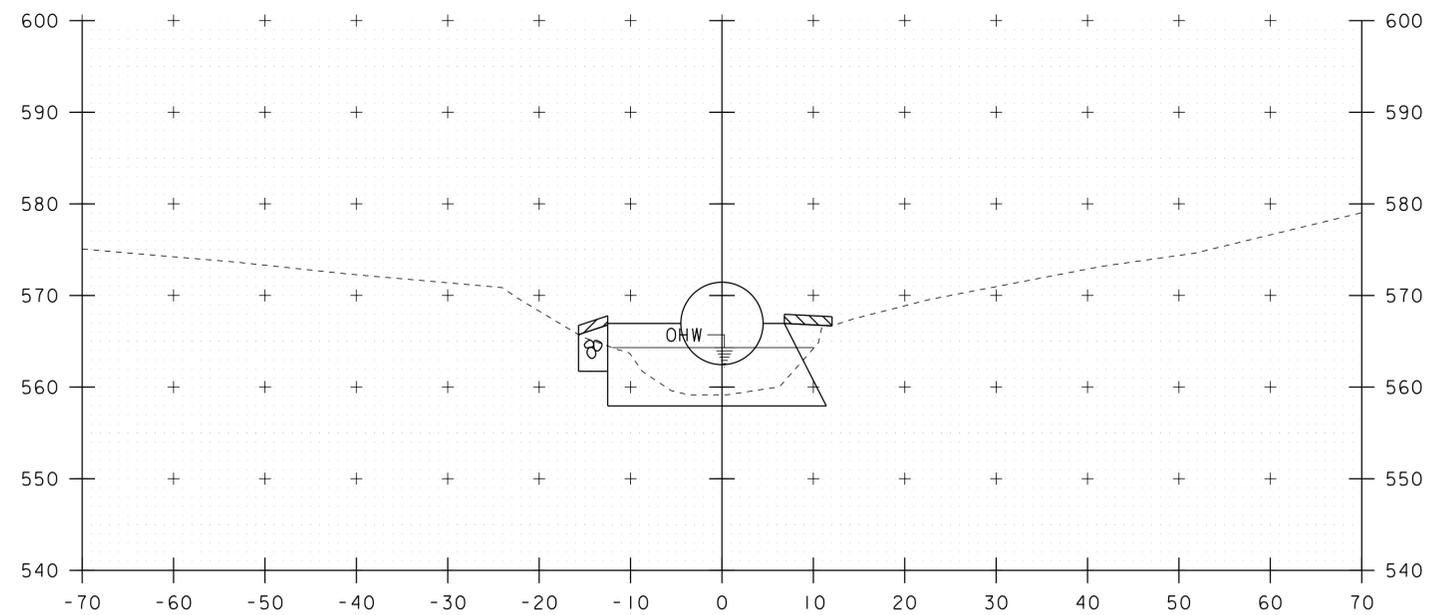
12+00



11+50



12+40

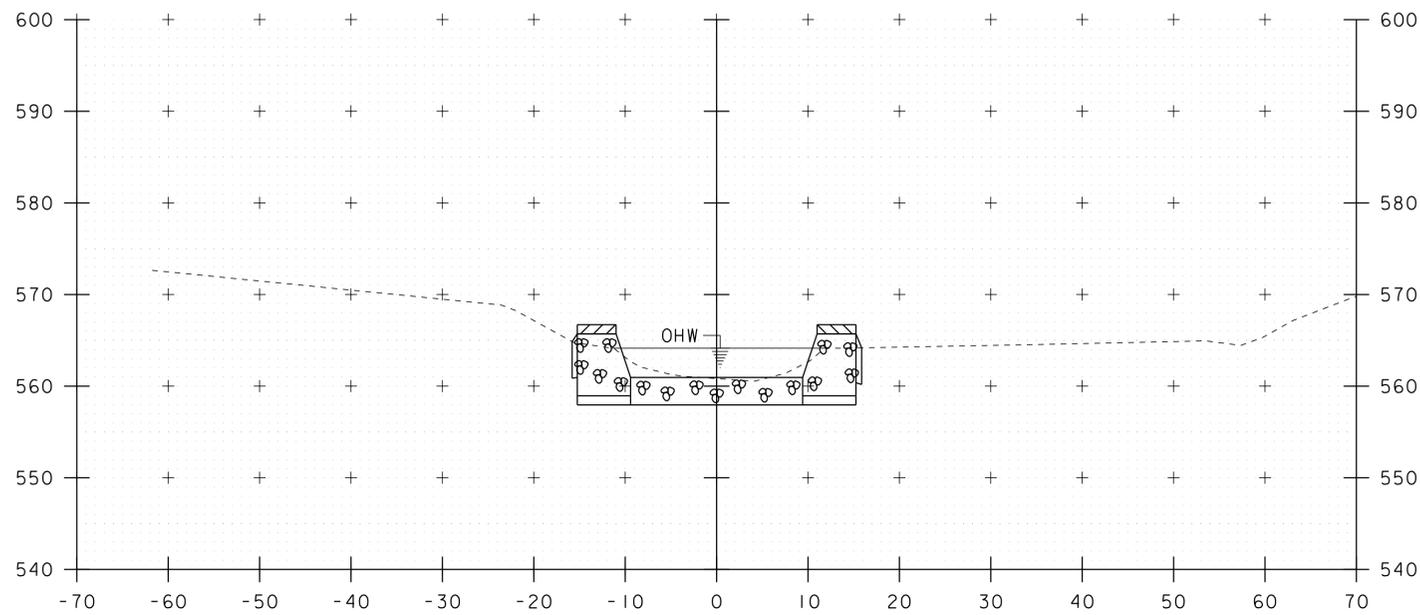


12+31

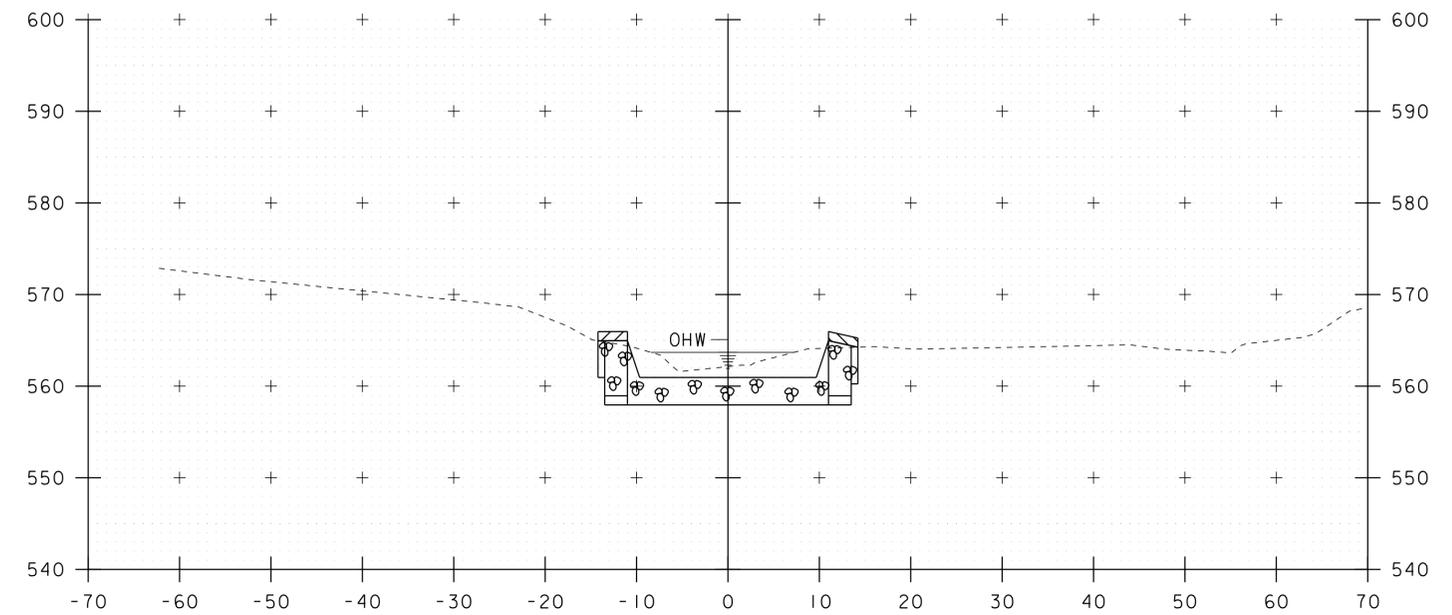
STA 12+31.00  
 BEGIN UNCLASSIFIED CHANNEL EXCAVATION  
 BEGIN GEOTEXTILE UNDER STONE FILL  
 BEGIN STONE FILL, TYPE IV  
 BEGIN GRUBBING MATERIAL

STA. 11+00 TO STA. 12+40

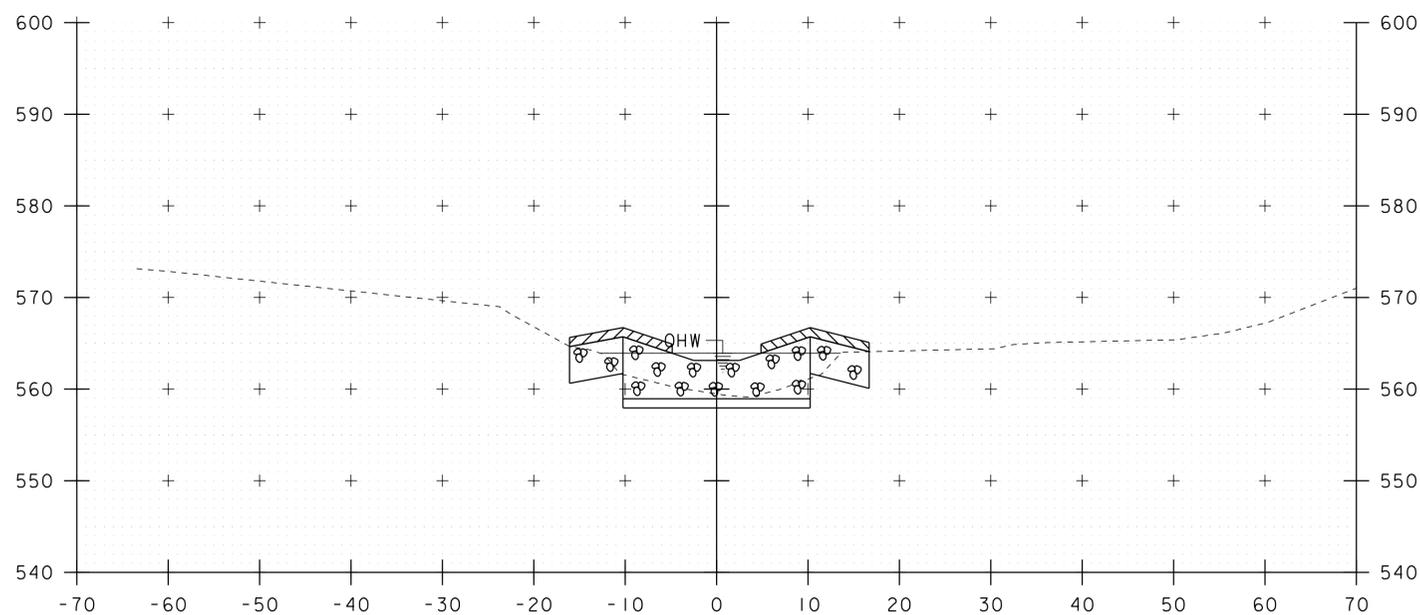
PROJECT NAME: RYEGATE	
PROJECT NUMBER: IM CULV(28)	
FILE NAME: Ila262/slla262xs.dgn	PLOT DATE: 11-MAR-2016
PROJECT LEADER: W.PELLETIER	DRAWN BY: D.D.BEARD
DESIGNED BY: W.PELLETIER	CHECKED BY: W.PELLETIER
CHANNEL CROSS SECTIONS 2	SHEET 11 OF 14



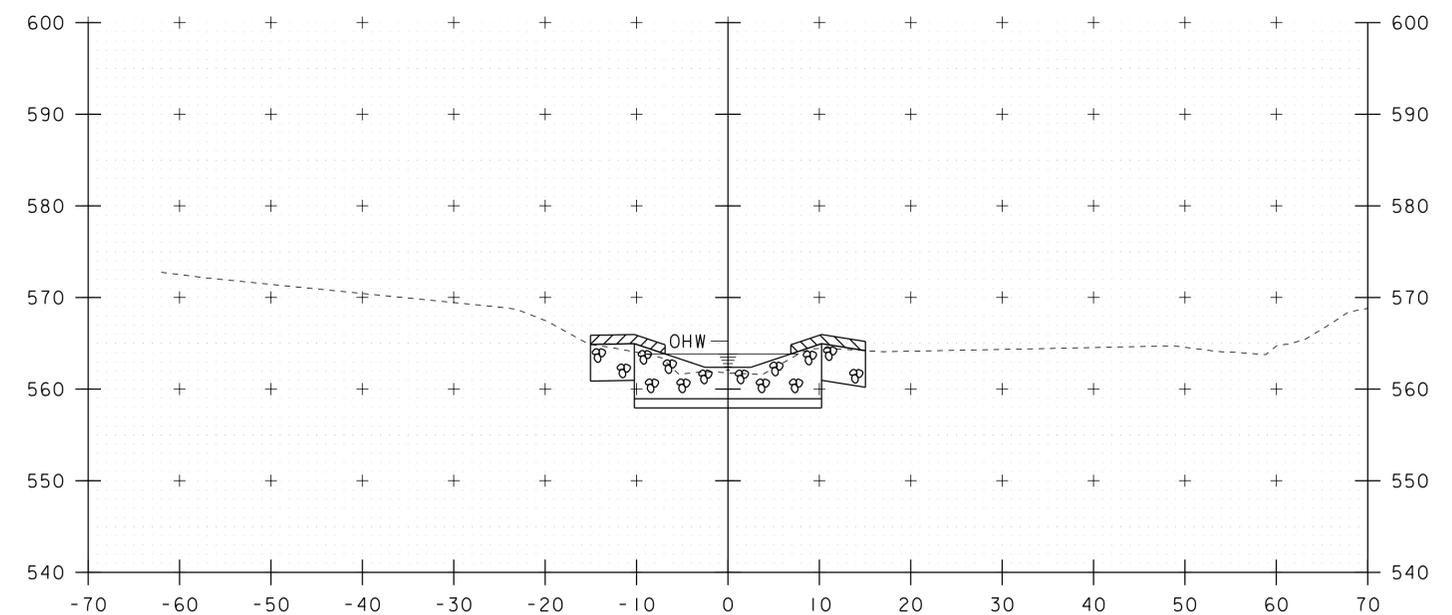
12+55



12+65



12+50



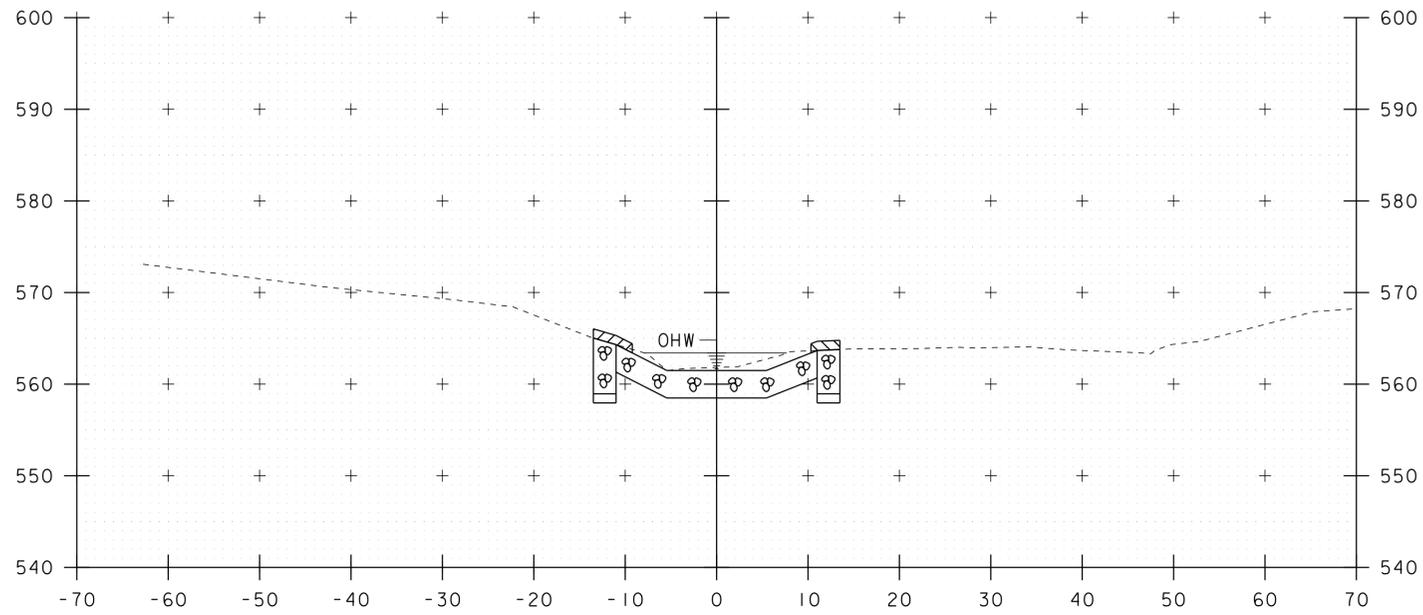
12+60

STA 12+31.00  
BEGIN STONE FILL, TYPE III

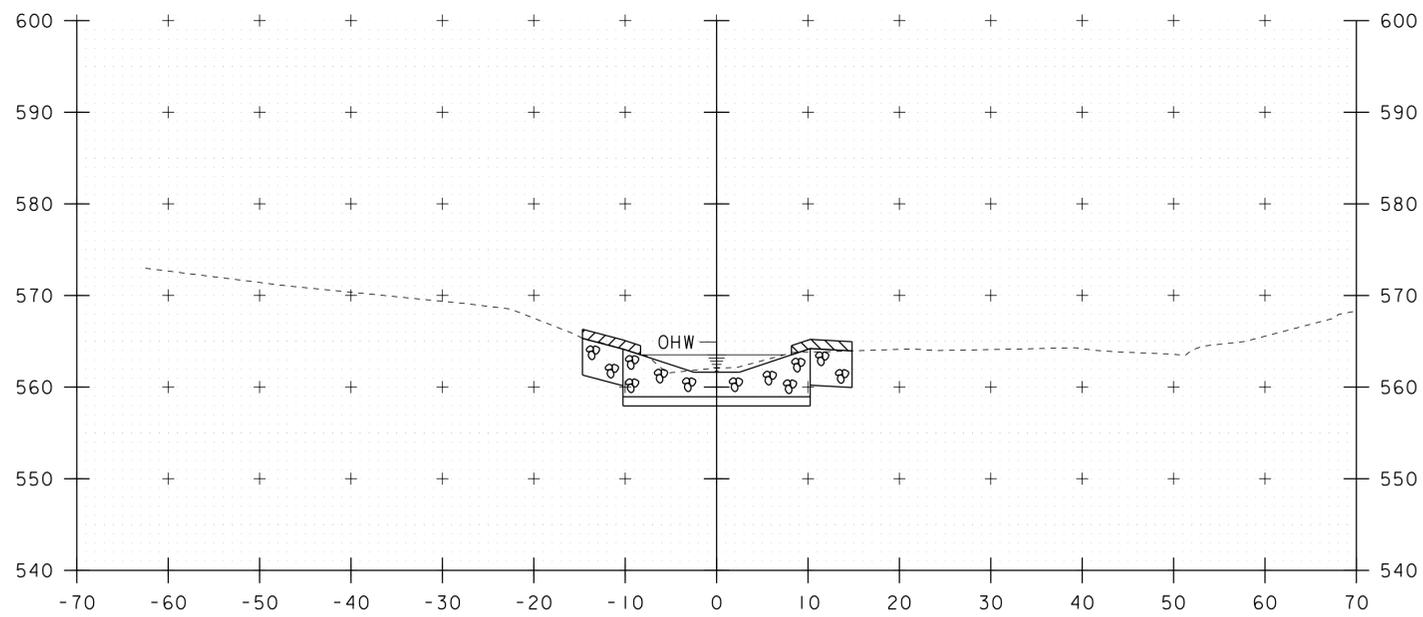
STA. 12+50 TO STA. 12+65

PROJECT NAME: RYEGATE	
PROJECT NUMBER: IM CULV(28)	
FILE NAME: Ila262/sIla262xs.dgn	PLOT DATE: 11-MAR-2016
PROJECT LEADER: W.PELLETIER	DRAWN BY: D.D.BEARD
DESIGNED BY: W.PELLETIER	CHECKED BY: W.PELLETIER
CHANNEL CROSS SECTIONS 3	SHEET 12 OF 14

STA 12+76.25  
 END UNCLASSIFIED CHANNEL EXCAVATION  
 END GEOTEXTILE UNDER STONE FILL  
 END STONE FILL, TYPE IV  
 END STONE FILL, TYPE III  
 END GRUBBING MATERIAL



12+75



12+70

STA. 12+70 TO STA. 12+75

PROJECT NAME: RYEGATE	PLOT DATE: 11-MAR-2016
PROJECT NUMBER: IM CULV(28)	DRAWN BY: D.D.BEARD
FILE NAME: Ila262/slla262xs.dgn	CHECKED BY: W.PELLETIER
PROJECT LEADER: W.PELLETIER	SHEET 13 OF 14
DESIGNED BY: W.PELLETIER	
CHANNEL CROSS SECTIONS 4	

VAOT LOW GROW/FINE FESCUE MIX						
WEIGHT	LBS/AC		NAME	LATIN NAME	GERM	PURITY
	BROADCAST	HYDROSEED				
38%	57	95	CREeping RED FESCUE	FESTUCA RUBRA VAR. RUBRA	90%	98%
29%	43.5	72.5	HARD FESCUE	FESTUCA LONGIFOLIA	85%	95%
15%	22.5	37.5	CHEWINGS FESCUE	FESTUCA RUBRA VAR. COMMUTATA	87%	95%
15%	22.5	37.5	ANNUAL RYEGRASS	LOLIUM MULTIFLORUM	90%	95%
3%	4.5	7.5	INERTS			
100%	150	250				

VAOT RURAL AREA MIX						
WEIGHT	LBS/AC		NAME	LATIN NAME	GERM	PURITY
	BROADCAST	HYDROSEED				
37.5%	22.5	45	CREeping RED FESCUE	FESTUCA RUBRA VAR. RUBRA	85%	98%
37.5%	22.5	45	TALL FESCUE	FESTUCA ARUNDINACEA	90%	95%
5.0%	3	6	RED TOP	AGROSTIS GIGANTEA	90%	95%
15.0%	9	18	WHITE FIELD CLOVER	TRIFOLIUM REPENS	85%	98%
5.0%	3	6	ANNUAL RYE GRASS	LOLIUM MULTIFLORUM	85%	95%
100%	60	120				

GENERAL AMENDMENT GUIDANCE		
FERTILIZER	LIME	
10/20/10	AG LIME	PELLITIZED
500 LBS/AC	2 TONS/AC	1 TONS/AC

**CONSTRUCTION GUIDANCE**

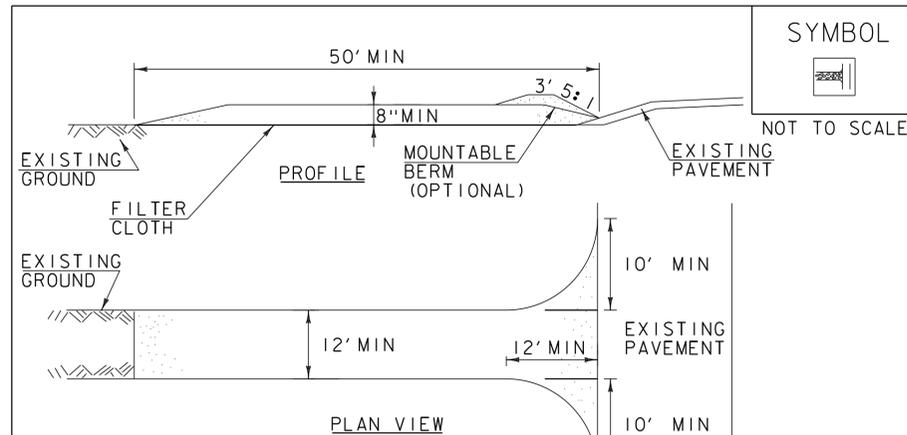
1. SEED MIX: THE CONTRACTOR SHALL COORDINATE WITH THE RESIDENT ENGINEER ON WHICH SEED MIX TO USE.
2. SEED MIX: USE AS INDICATED IN THE PLANS AND/OR FOR ALL ESTABLISHED UPLAND (NON WETLAND) AREAS DISTURBED BY THE CONTRACTOR.
3. ALL SEED MIXTURES: SHALL NOT HAVE A WEED CONTENT EXCEEDING 0.40% BY WEIGHT AND SHALL BE FREE OF ALL NOXIOUS SEED.
4. FERTILIZER AND LIMESTONE: SHALL FOLLOW RATES SHOWN ON PLAN OR AS DIRECTED BY THE ENGINEER.
5. HAY MULCH: TO BE PLACED ON EARTH SLOPES AT THE RATE OF 2 TONS/ACRE, ACHIEVE 90% GROUND COVER OR AS DIRECTED BY THE ENGINEER.
6. HYDROSEEDING: ALTHOUGH GUIDANCE IS GIVEN ABOVE THE SITE CONDITIONS AND THE TYPE OF HYDROSEED PROPOSED FOR USE WILL ULTIMATELY DICTATE THE AMOUNTS AND TYPES OF SOIL AMENDMENTS TO BE APPLIED.
7. TURF ESTABLISHMENT: PLACING SEED, FERTILIZER, LIME AND MULCH PRIOR TO SEPTEMBER 15 AND AFTER APRIL 15 CAN BETTER ENSURE A VIGOROUS GROWTH OF GRASS.

ADAPTED FROM VTRANS TECHNICAL LANDSCAPE MANUAL FOR ROADWAYS AND TRANSPORTATION FACILITIES

**TURF ESTABLISHMENT**

THIS WORK SHALL BE PERFORMED IN ACCORDANCE WITH SECTION 651 FOR SEED (PAY ITEM 651.15)

REVISIONS	
JANUARY 12, 2015	WHF



**CONSTRUCTION SPECIFICATIONS**

1. STONE SIZE- USE 1-4" STONE, RECLAIMED OR RECYCLED CONCRETE EQUIVALENT.
2. LENGTH- NOT LESS THAN 50' (EXCEPT ON A SINGLE RESIDENCE LOT WHERE A 30' MINIMUM LENGTH APPLIES).
3. THICKNESS- NOT LESS THAN 8".
4. WIDTH- 12' MINIMUM, BUT NOT LESS THAN THE FULL WIDTH AT POINTS WHERE INGRESS OR EGRESS OCCURS. 24' IF SINGLE ENTRANCE TO SITE.
5. GEOTEXTILE MUST BE PLACED OVER THE ENTIRE AREA PRIOR TO PLACING STONE.
6. SURFACE WATER- ALL SURFACE WATER FLOWING OR DIVERTED TOWARD CONSTRUCTION ENTRANCES SHALL BE PIPED BENEATH THE ENTRANCE. IF PIPING IS IMPRACTICAL, A MOUNTABLE BERM WITH 5:1 SLOPES WILL BE PERMITTED.
7. MAINTENANCE- THE ENTRANCE SHALL BE MAINTAINED IN A CONDITION WHICH WILL PREVENT TRACKING OR FLOWING OF SEDIMENT ONTO PUBLIC RIGHTS-OF-WAY, ALL SEDIMENT SPILLED, DROPPED, WASHED OR TRACKED ONTO PUBLIC RIGHTS-OF-WAY MUST BE REMOVED IMMEDIATELY.
8. WHEN WASHING IS REQUIRED, IT SHALL BE DONE ON AN AREA STABILIZED WITH STONE AND WHICH DRAINS INTO AN APPROVED SEDIMENT TRAPPING DEVICE.
9. PERIODIC INSPECTION AND NEEDED MAINTENANCE SHALL BE PROVIDED ACCORDING TO PERMIT REQUIREMENTS.

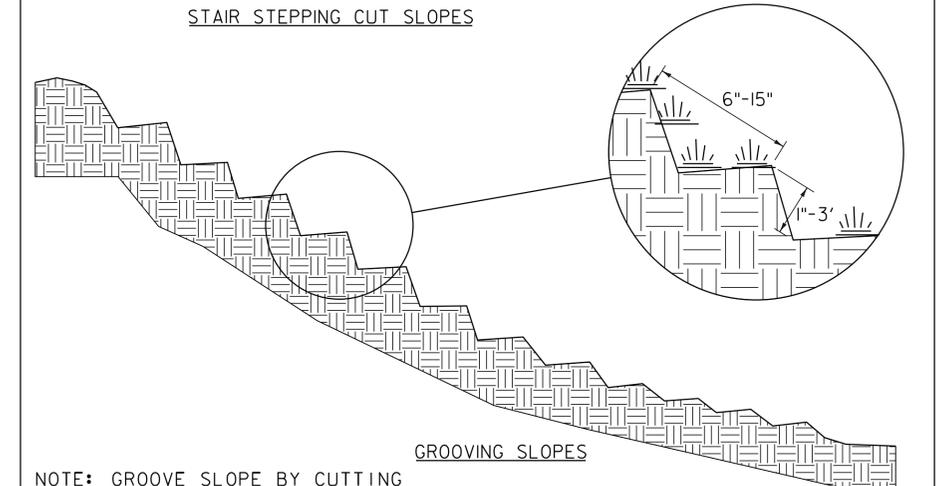
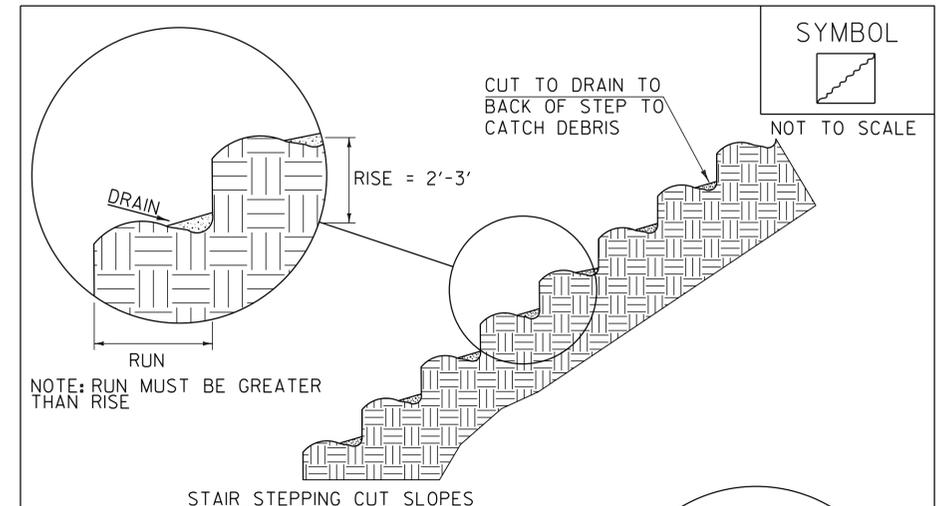
ADAPTED FROM DETAILS PROVIDED BY: NEW YORK STATE DEC  
ORIGINALLY DEVELOPED BY USDA-NRCS  
VERMONT DEPARTMENT OF ENVIRONMENTAL CONSERVATION

**STABILIZED CONSTRUCTION ENTRANCE**

NOTES:  
REFER TO "THE VERMONT STANDARDS & SPECIFICATIONS FOR EROSION PREVENTION & SEDIMENT CONTROL -2006- "FROM THE VT AGENCY OF NATURAL RESOURCES FOR ADDITIONAL GUIDANCE.

THIS WORK SHALL BE PERFORMED IN ACCORDANCE WITH SECTION 653 FOR VEHICLE TRACKING PAD (PAY ITEM 653.35) OR AS SPECIFIED IN THE CONTRACT.

REVISIONS	
MARCH 24, 2008	WHF
JANUARY 13, 2009	WHF



ADAPTED FROM DETAILS PROVIDED BY: NEW YORK STATE DEC  
ORIGINALLY DEVELOPED BY USDA-NRCS  
VERMONT DEPARTMENT OF ENVIRONMENTAL CONSERVATION

**SURFACE ROUGHENING**

NOTES:  
REFER TO "THE VERMONT STANDARDS & SPECIFICATIONS FOR EROSION PREVENTION & SEDIMENT CONTROL -2006- "FROM THE VT AGENCY OF NATURAL RESOURCES FOR ADDITIONAL GUIDANCE.

THIS WORK SHALL BE CONSIDERED INCIDENTAL TO THE CONTRACT

REVISIONS	
APRIL 1, 2008	WHF
JANUARY 13, 2009	WHF

PROJECT NAME: RYEGATE  
PROJECT NUMBER: IM CULV(28)

FILE NAME: Ila262/slla262ero.dgn  
PROJECT LEADER: W.PELLITIER  
DESIGNED BY: W.PELLITIER  
EROSION CONTROL DETAILS

PLOT DATE: 11-MAR-2016  
DRAWN BY: D.D.BEARD  
CHECKED BY: W.PELLITIER  
SHEET 14 OF 14