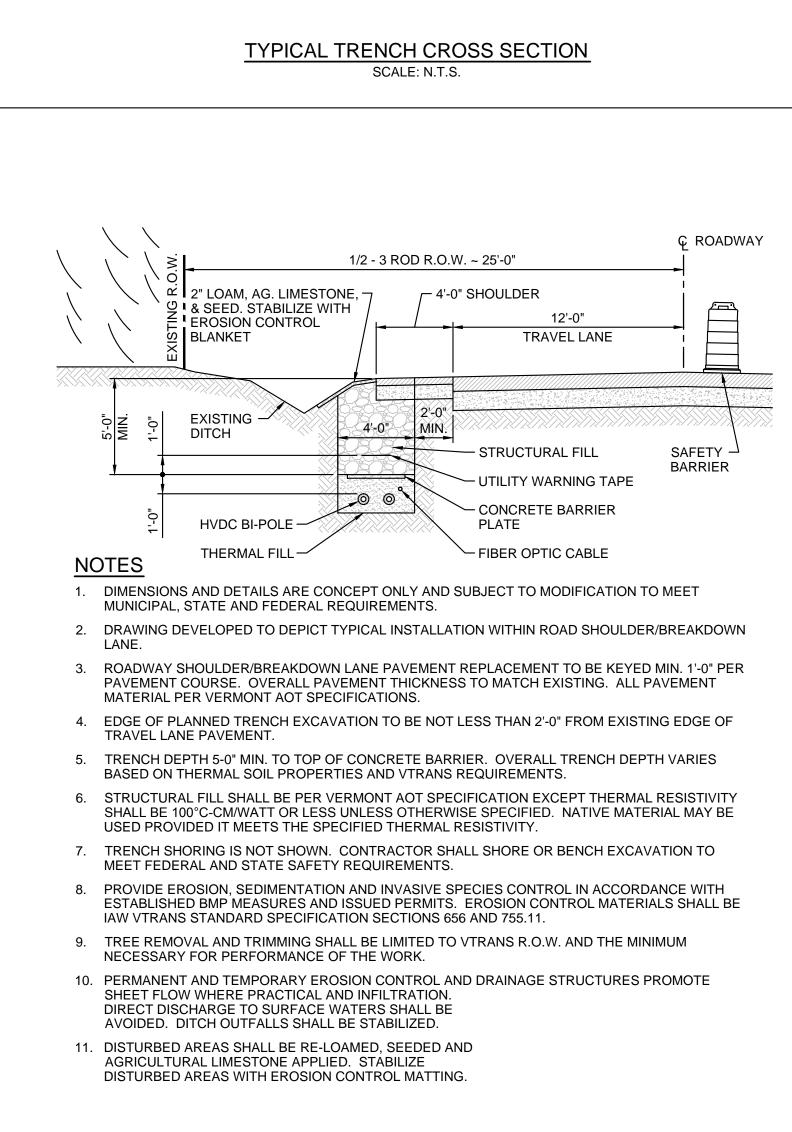
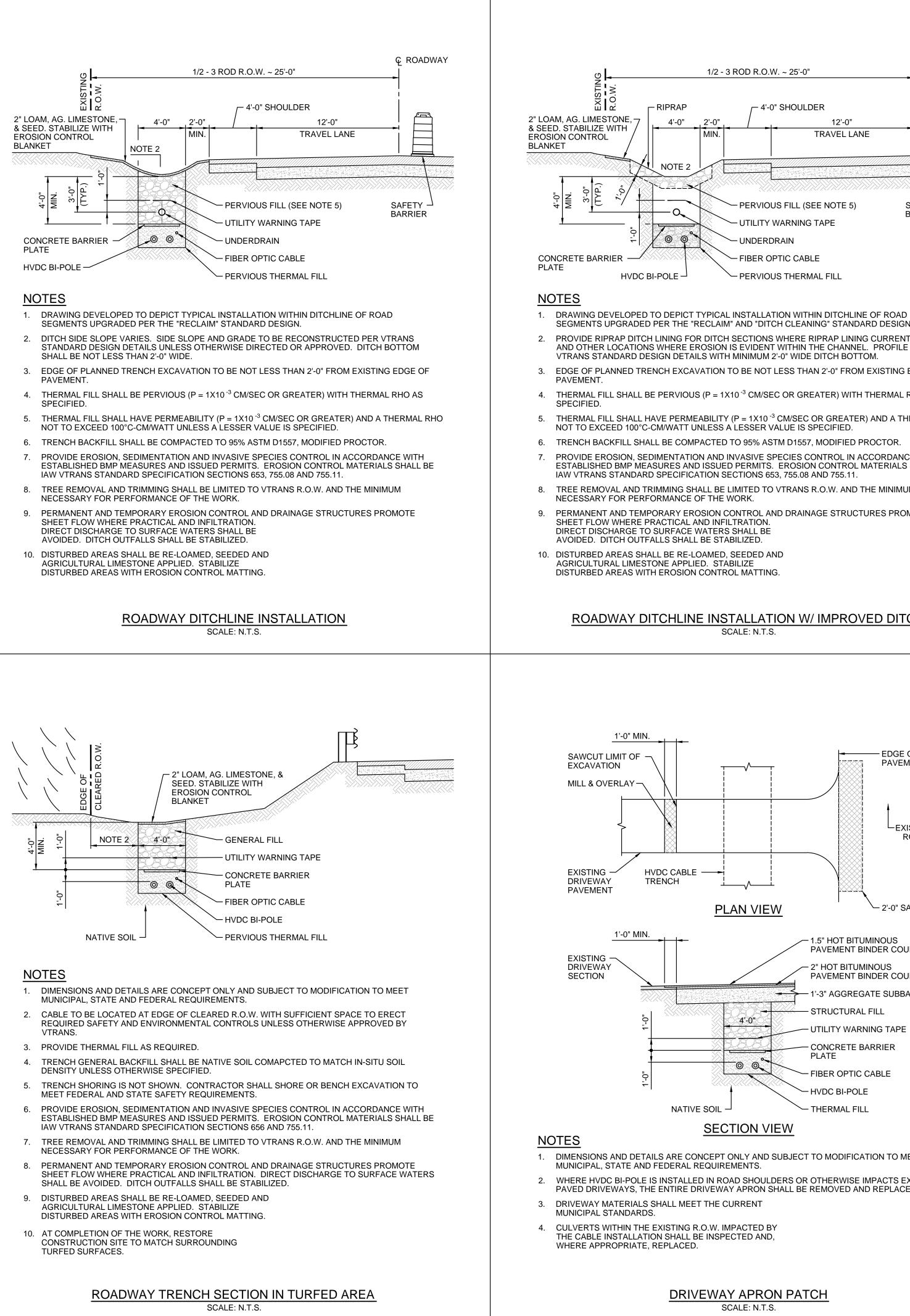
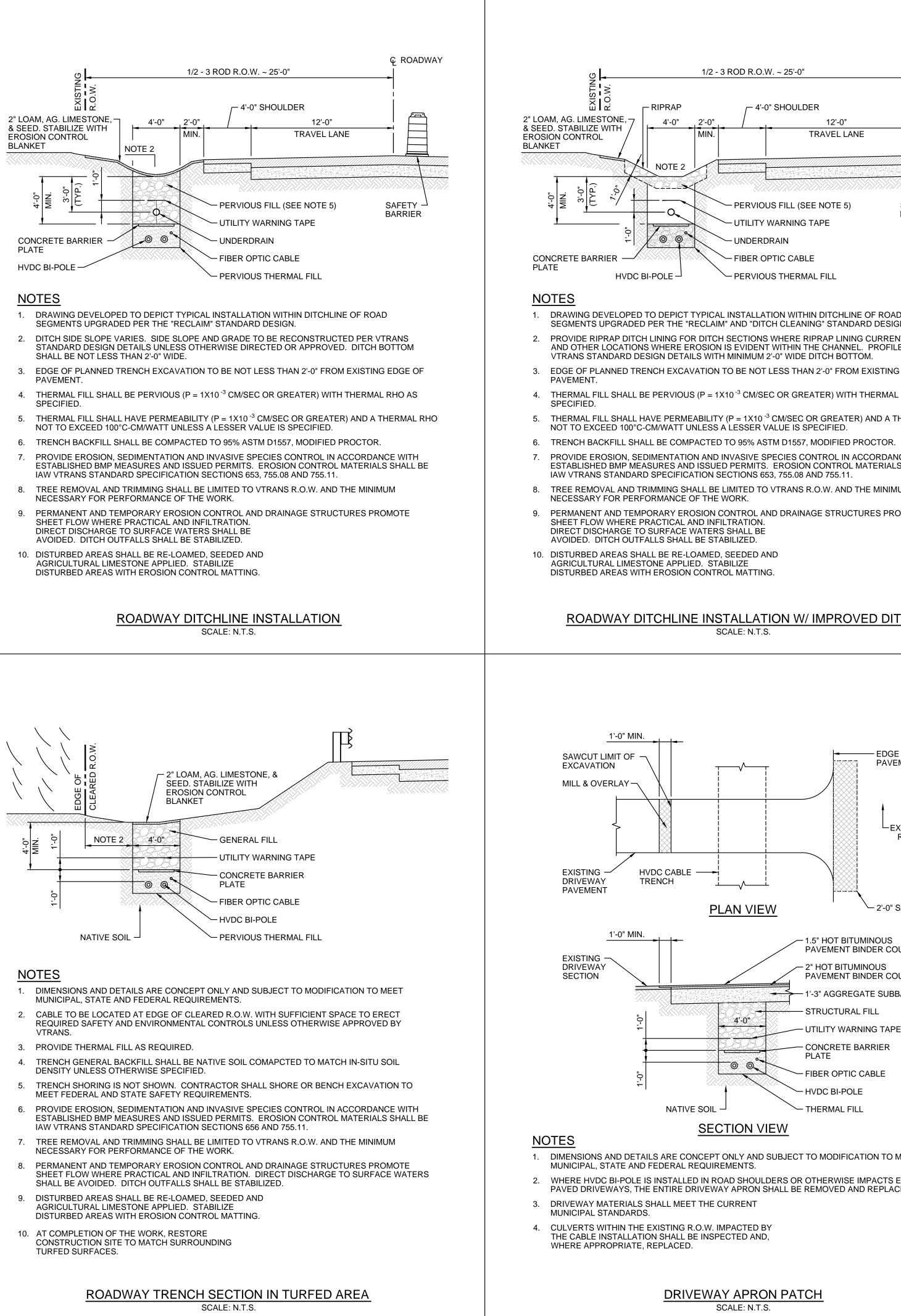


## NOTES

- 1. CABLE SPACING MAY VARY BASED UPON CONTRACTOR INSTALLATION PREFERENCE AND LOCATION. A TYPICAL SPACING OF UP TO 3 FEET IS ANTICIPATED.
- 2. CABLES WILL BE BEDDED IN SCREENED SAND OR NATIVE SOIL. THERMAL SAND WILL BE USED WHERE REQUIRED. DEPTH OF THERMAL SAND OVER CABLE WILL BE FIELD DETERMINED FOLLWOING TESTING OF NATIVE SOILS.
- 3. CONCRETE PROTECTIVE PLATES WILL BE PROVIDED OVER CABLES.
- 4. EXCAVATION MAY BE VERTICAL SHORED OR SLOPED BACK PER OSHA REQUIREMENTS WHERE NECESSARY.
- 5. THERMAL SAND OVER SCREENED NATIVE SOIL SHALL BE 1 FOOT MINIMUM OVER CABLES. ADDITIONAL THERMAL FILL SHALL BE PROVIDED AS REQUIRED PER DESIGN.
- 6. PRIOR TO EXCAVATION, PROVIDE EROSION AND SEDIMENT CONTROLS AS REQUIRED.
- 7. ABOVE SKETCH IS TO PRESENT CONCEPTS. MORE RESTRICTIVE REQUIREMENTS OF THE RAILROAD, STATE OR OTHER AUTHORITY WILL BE REFLECTED IN THE DETAILED DESIGN.

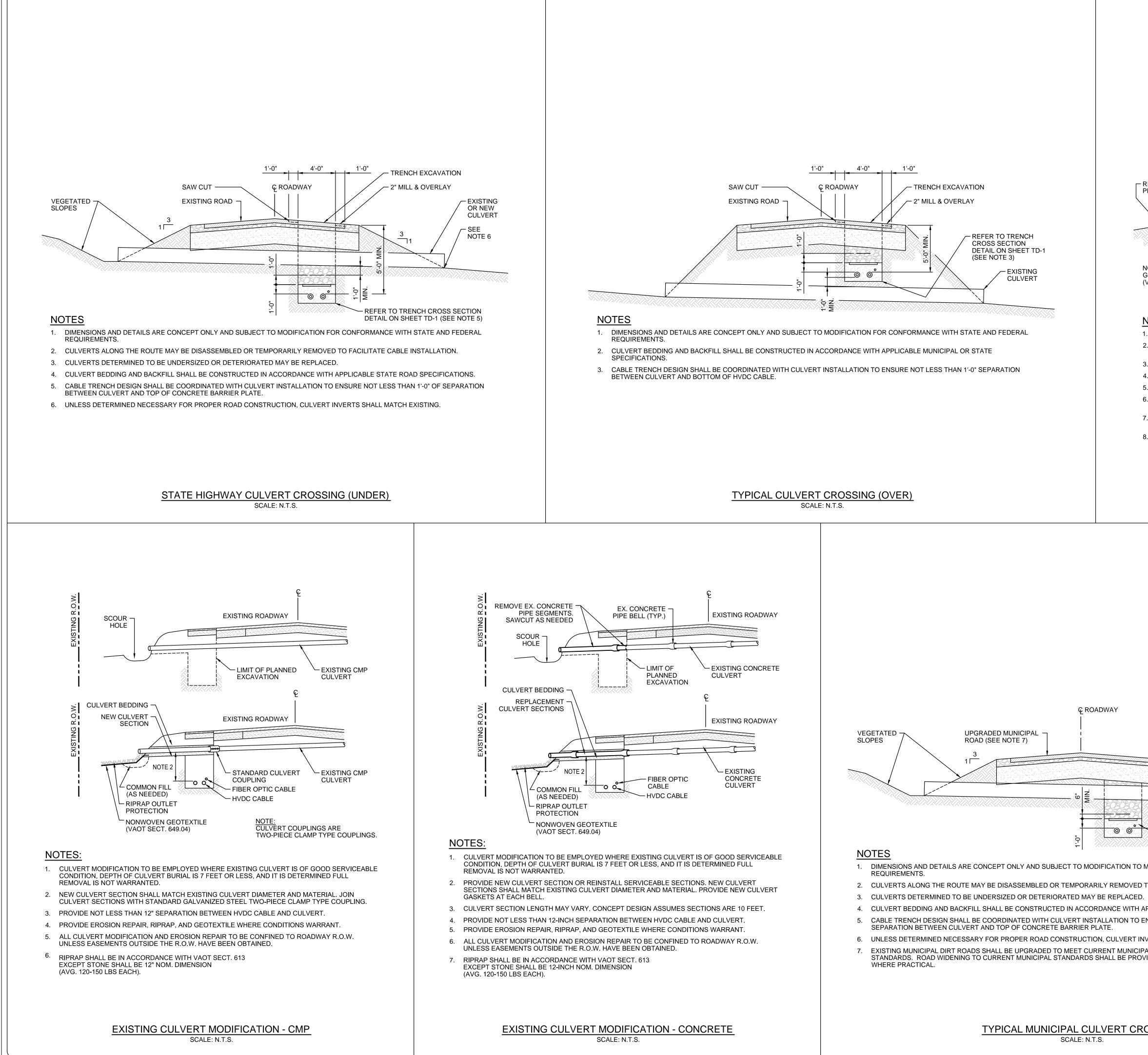




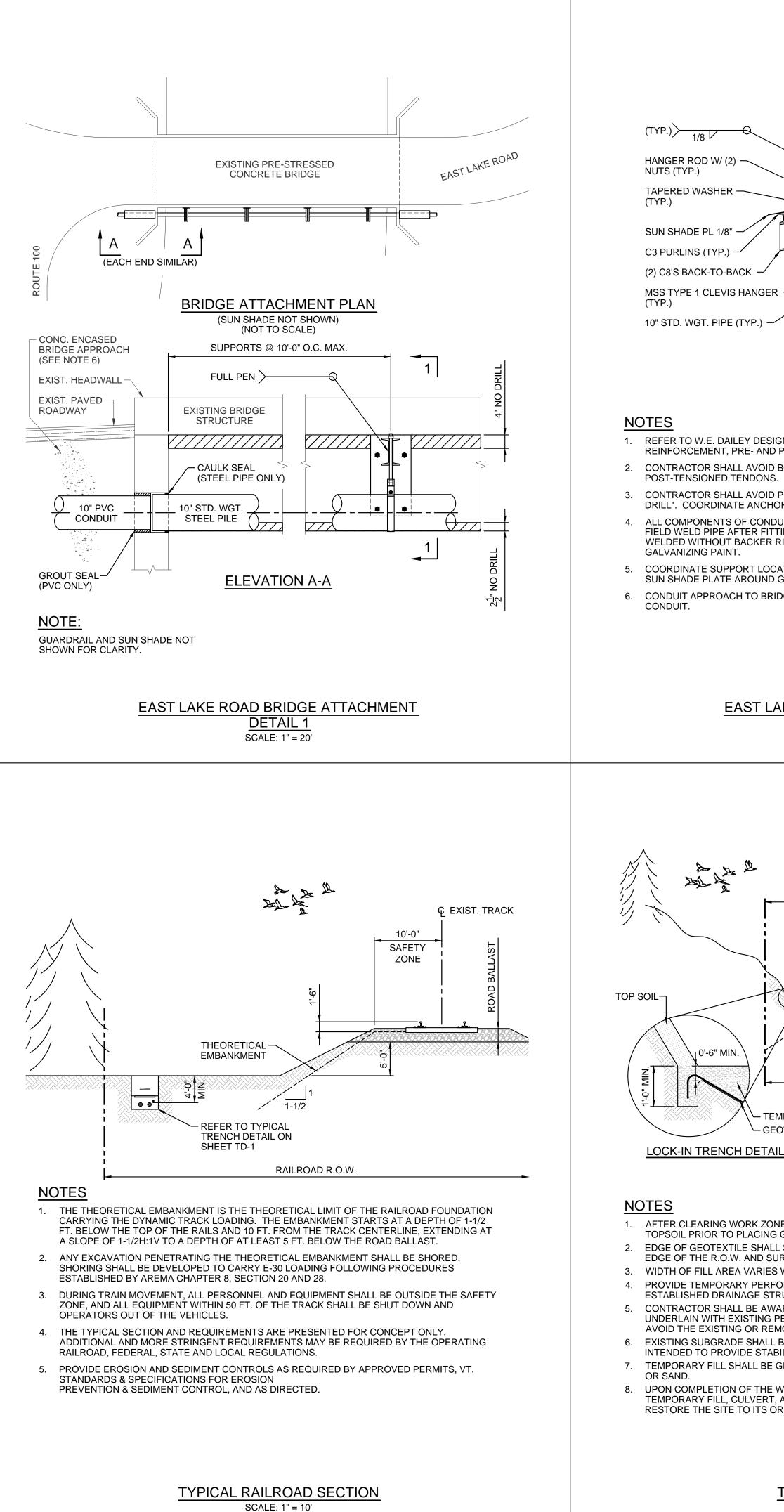


ROADWAY TRENCH SECTION IN SHOULDER SCALE: N.T.S.

င့ ROADWAY	د ROADWAY	
► 		
	EXISTING I EXISTING TRAVEL LANE	
	SEE NOTE 2	7,
	to Z 1'-0" To Z 1'-0" To Z 1'-0" BASE BARRIER	
SAFETY – <sup>J</sup> BARRIER	1'-0"	
	- UNDERDRAIN - FIBER OPTIC CABLE	
	HVDC BI-POLE	
	NOTES CONCRETE BARRIER - NATIVE SOIL	
NS.	1. DIMENSIONS AND DETAILS ARE CONCEPT ONLY AND SUBJECT TO MODIFICATION TO MEET MUNICIPAL, STATE AND FEDERAL REQUIREMENTS.	
TLY EXISTS DITCH PER	<ol> <li>DRAWING DEVELOPED TO DEPICT TYPICAL INSTALLATION WITHIN PAVED TRAVEL LANE. LOCATE TRENCH AT EDGE OF TRAVEL LANE UNLESS NOTED OTHERWISE.</li> <li>DOADWAY DAVEMENT DEPLACEMENT TO BE KEYED MIN. 1: 0" DEP DAVEMENT COURSE. OVERALL</li> </ol>	
EDGE OF	<ol> <li>ROADWAY PAVEMENT REPLACEMENT TO BE KEYED MIN. 1'-0" PER PAVEMENT COURSE. OVERALL PAVEMENT THICKNESS TO MATCH EXISTING. ALL PAVEMENT MATERIAL PER VERMONT AOT SPECIFICATIONS.</li> </ol>	
RHO AS	<ol> <li>TRENCH DEPTH 5'-0" MIN. TO TOP OF CONCRETE BARRIER. OVERALL TRENCH DEPTH VARIES BASED ON THERMAL SOIL PROPERTIES AND VTRANS REQUIREMENTS.</li> </ol>	
IERMAL RHO	<ol> <li>STRUCTURAL FILL SHALL BE PER VERMONT AOT SPECIFICATION EXCEPT THERMAL RESISTIVITY SHALL BE 100°C-CM/WATT OR LESS UNLESS OTHERWISE SPECIFIED. NATIVE MATERIAL MAY BE USED PROVIDED IT MEETS THE SPECIFIED THERMAL RESISTIVITY.</li> </ol>	
CE WITH	<ol> <li>TRENCH SHORING IS NOT SHOWN. CONTRACTOR SHALL SHORE OR BENCH EXCAVATION TO MEET FEDERAL AND STATE SAFETY REQUIREMENTS.</li> </ol>	
SHALL BE	7. PROVIDE EROSION, SEDIMENTATION AND INVASIVE SPECIES CONTROL IN ACCORDANCE WITH ESTABLISHED BMP MEASURES AND ISSUED PERMITS. EROSION CONTROL MATERIALS SHALL BE	
JM	IAW VTRANS STANDARD SPECIFICATION SECTIONS 656 AND 755.11. 8. PERMANENT AND TEMPORARY EROSION CONTROL AND DRAINAGE STRUCTURES PROMOTE SHEET FLOW WHERE PRACTICAL AND INFILTRATION. DIRECT DISCHARGE TO SURFACE WATERS	
MOTE	SHALL BE AVOIDED. DITCH OUTFALLS SHALL BE STABILIZED.	
	9. DISTURBED AREAS SHALL BE RE-LOAMED, SEEDED AND AGRICULTURAL LIMESTONE APPLIED. STABILIZE DISTURBED AREAS WITH EROSION CONTROL MATTING.	
	Die Torde D'Arreno with Errobion Control MATHING.	
<u>CH</u>	ROADWAY TRENCH SECTION IN PAVEMENT SCALE: N.T.S.	
OF EXISTING /IENT		
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ASE		
	Designed TRC	
	Drawn TRC Checked -	
	Approved - Scale AS NOTED	
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EET	A 20% ANR Submission 12/5/14 TRC AMW	
XISTING		
ED.	TDI New England	
	A Blackstone Portfolio Company	
	New England Clean Power Li           TDI New England	nk 
	Typical Details	_
	Prenared by: <u>TD-1</u>	
	Prepared by: CTRC	09/19/14



EXISTING ROAD	WAY *						
RIPRAP OUTLET PROTECTION				<u> </u>	<b>`</b>		
REPLACEMENT		X   X   X   X   X   X   X   X   X   X					
NON-WOVEN SEOTEXTILE VTAOT SECT. 649.04)		* PAVED ROAD SE GRAVEL ROAD R			_AR.		
REFER TO TREN CROSS SECTIO DETAIL ON SHE	N						
(SEE NOTE 3) NOTES					П		
<ul> <li>CULVERTS MAY BE REPLACED WHEN EXISTING CULVERT IS DE</li> <li>NEW CULVERTS SHALL MATCH EXISTING CULVERTS IN DIAMET WARRANTED.</li> </ul>					к.		
<ul> <li>UNLESS DETERMINED NECESSARY FOR PROPER ROAD CONS<sup>®</sup></li> <li>PROVIDE NOT LESS THAN 12 INCHES OF SEPARATION BETWEE</li> </ul>	·		CH EXISTING	G.			
<ol> <li>PROVIDE EROSION REPAIR, RIPRAP, AND GEOTEXTILE WHERE</li> <li>ALL CULVERT INSTALLATIONS AND EROSION REPAIR SHALL BE R.O.W. HAVE BEEN OBTAINED.</li> </ol>		R.O.W. UNLESS EAS	EMENTS OU	TSIDE TH	łΕ		
7. RIPRAP SHALL BE IN ACCORDANCE WITH VTAOT SECT. 613 EX 12-INCH NOMINAL DIMENSION (AVG. 120-150 LBS.)							
<ol> <li>REFER TO DETAIL 209513-TRN-03 FOR CABLE TRENCH PROPER ASSOCIATED WITH CABLE INSTALLATION UNDER PAVEMENT A HIGHWAYS.</li> </ol>							
	ERT REPLACEMENT ALE: N.T.S.	<u>T</u>					
- EXISTING OR NEW							
CULVERT							
REFER TO TRENCH CROSS SECTION		Designed	TRC				
MEET TOWN OF LUDLOW, STATE AND FEDERAL		Drawn Checked	TRC -				
TO FACILITATE CABLE INSTALLATION.		Approved Scale	- AS NOTED	1			
PPLICABLE MUNICIPAL ROAD SPECIFICATIONS.			<b>Revision</b> Submission		By TRC	Ck PE Amw	PE#
NSURE NOT LESS THAN SIX INCHES OF VERTS SHALL MATCH EXISTING.							
AL ROAD /IDED			TD)	I New F	Engl	and	
		Ne	w England		Pow	er Link	,
			TDI N	ew Engla  cal Detai	nd		
OSSING				<u>TD-2</u>			
		Prepared	by: CTRC			10/	09/14



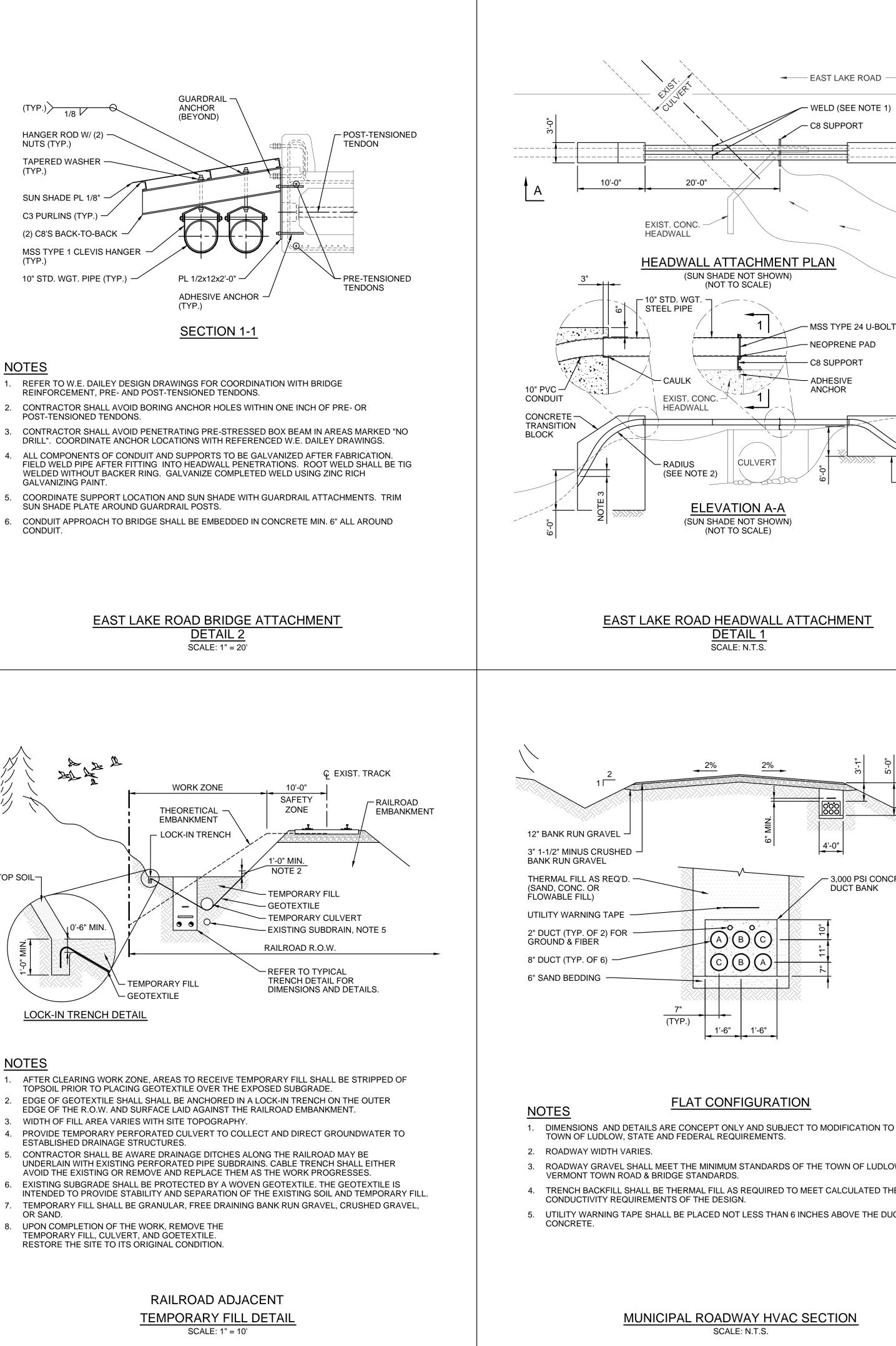
# <u>NOTES</u> REINFORCEMENT, PRE- AND POST-TENSIONED TENDONS. POST-TENSIONED TENDONS. GALVANIZING PAINT. SUN SHADE PLATE AROUND GUARDRAIL POSTS. CONDUIT.

10'-6" MIN LOCK-IN TRENCH DETAIL

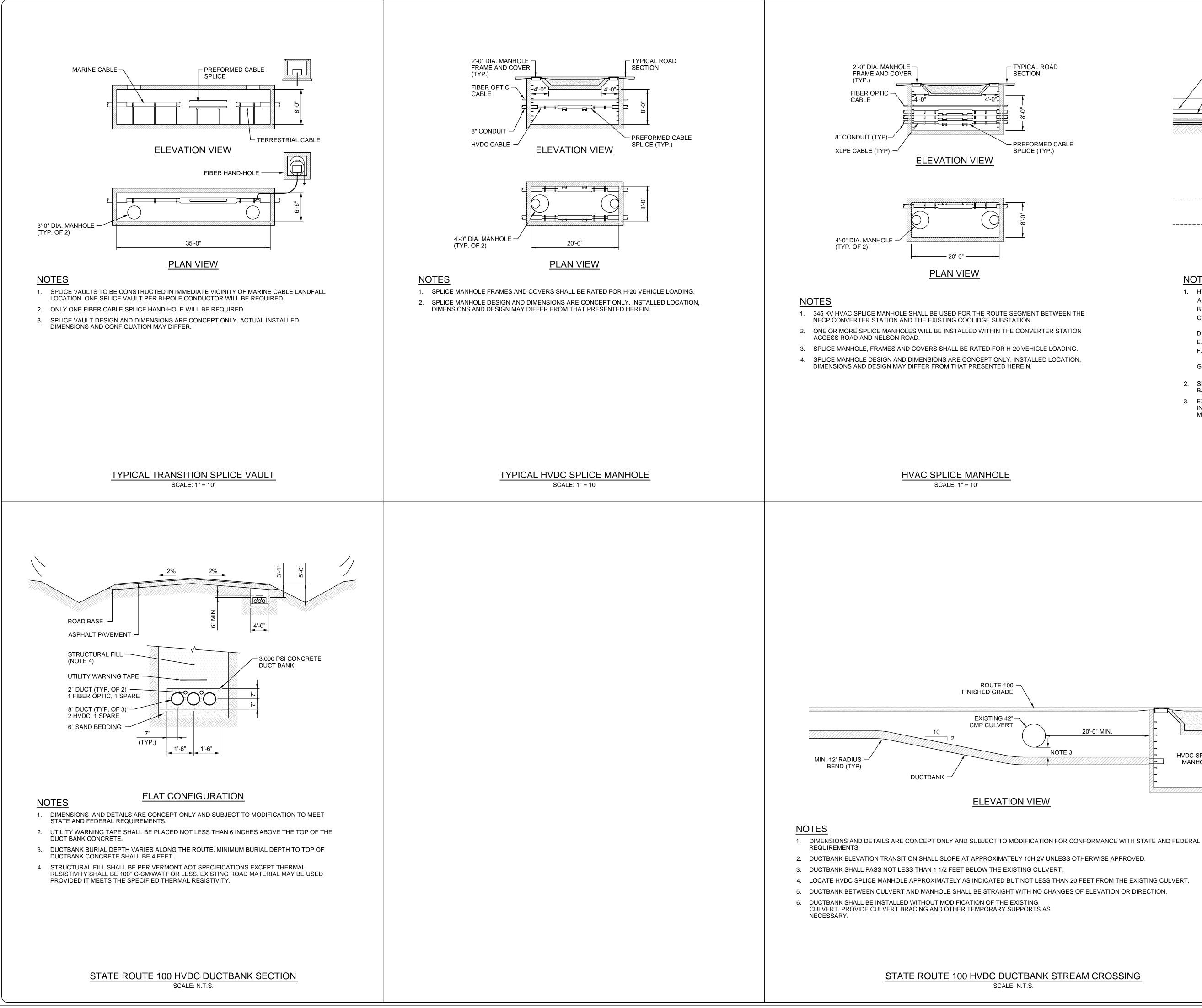
# NOTES

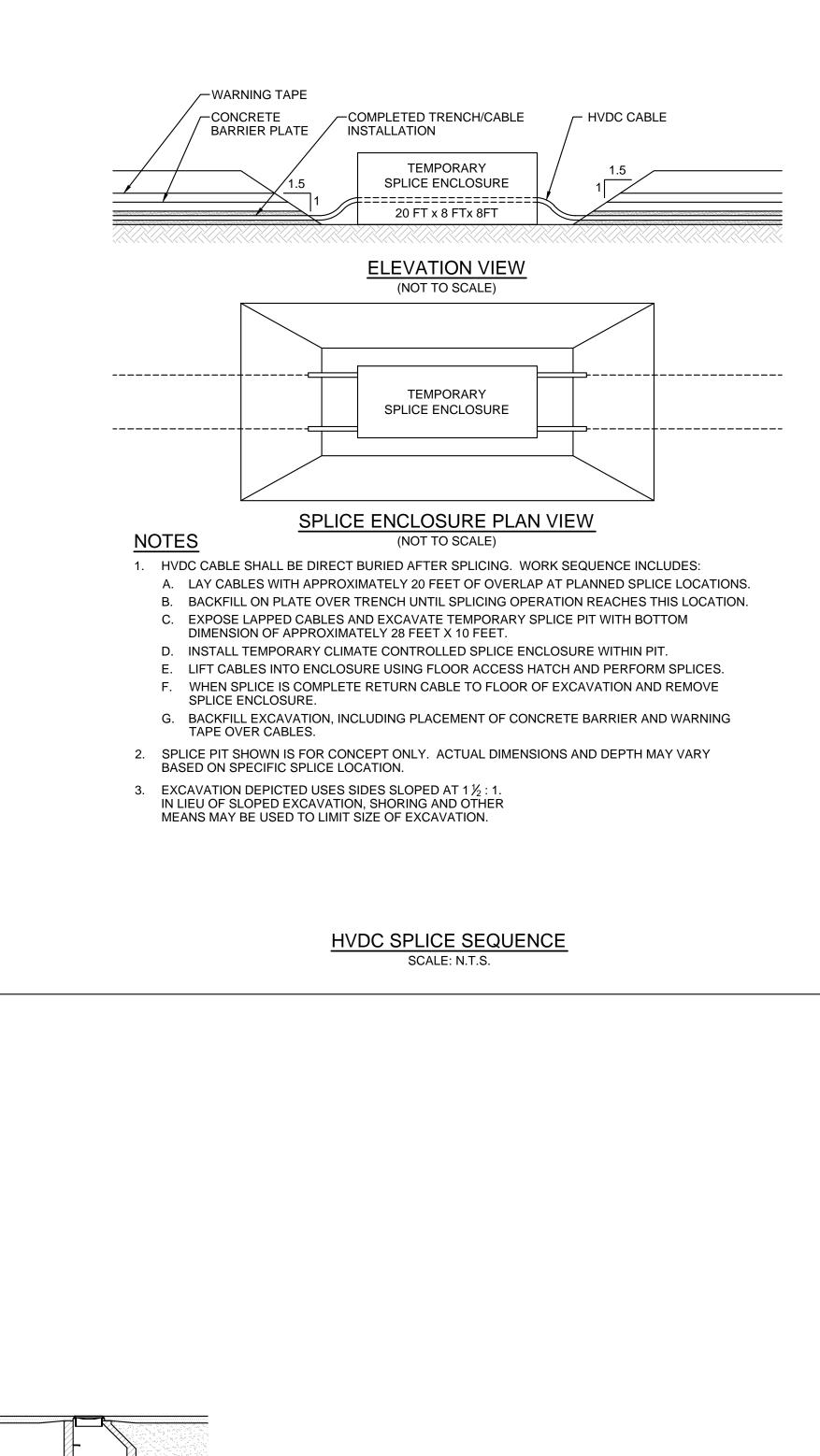
- 3. WIDTH OF FILL AREA VARIES WITH SITE TOPOGRAPHY.
- ESTABLISHED DRAINAGE STRUCTURES.

- OR SAND.
- 8. UPON COMPLETION OF THE WORK, REMOVE THE TEMPORARY FILL, CULVERT, AND GOETEXTILE. RESTORE THE SITE TO ITS ORIGINAL CONDITION.



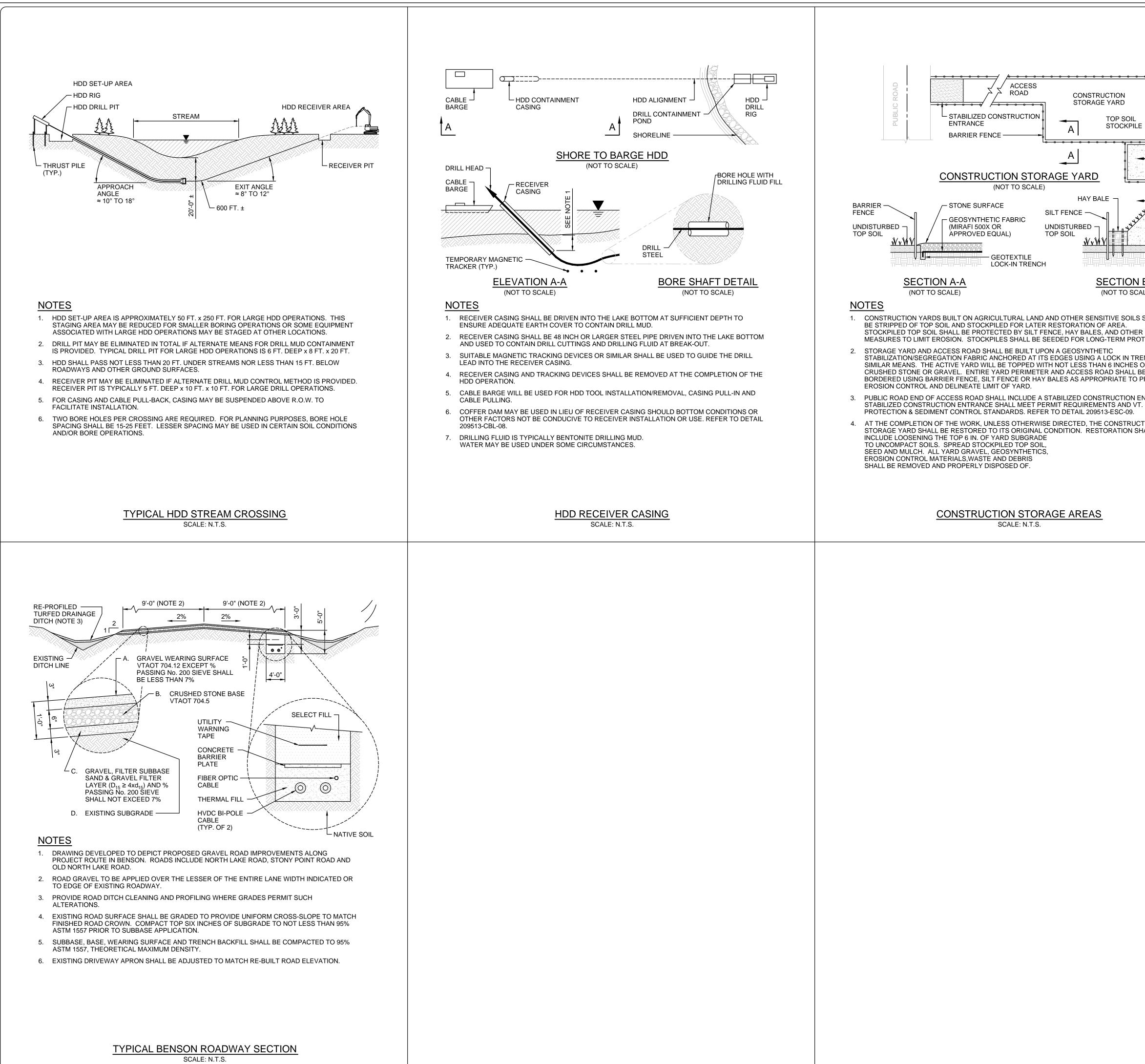
	L1 1/2x1 1/2x1/4 — MSS TYPE 24 U-BOLT
A	Image: Construction of the construc
	NEOPRENE PAD (TYP.) A A ADHESIVE ANCHOR (TYP.) EXISTING CONCRETE HEADWALL 3'-0"
т	SECTION 1-1 (SUN SHADE)
CONCRETE TRANSITION BLOCK	<ul> <li>NOTES</li> <li>1. ALL COMPONENTS TO BE GALVANIZED AFTER FABRICATION. FIELD WELD PIPE AFTER FITTING INTO TRANSITION BLOCKS. ROOT WELD SHALL BE TIG WELDED WITHOUT BACKER RING. GALVANIZE COMPLETED WELD USING ZINC RICH GALVANIZING PAINT.</li> <li>2. PVC ENCASED WITHIN CONCRETE SHALL BE BENT AT A 12 FT. RADIUS UNLESS A LARGER RADIUS IS REQUIRED BY THE CABLE MANUFACTURER.</li> <li>3. CONDUIT BEND RADIUS AND CONCRETE TRANSITION BLOCK LENGTHS SHALL BE COORDINATED TO PROVIDE 4 FEET MINIMUM COVER OVER CABLE AT EXIT FROM BLOCK.</li> </ul>
BLUCK	
	EAST LAKE ROAD HEADWALL ATTACHMENT <u>DETAIL 2</u> SCALE: 1" = 20'
CRETE	
	Designed TRC
) MEET	Drawn TRC Checked - Approved - Scale AS NOTED
DW, IERMAL	No.RevisionDateByCkPEPE #A20% ANR Submission12/5/14TRCAMW
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	Blackstone       Portfolio Company         New England Clean Power Link             TDI New England             Typical Details
	TD-3           Prepared by:         CTRC           10/09/14





20'-0" MIN.		
		HVDC SPLICE MANHOLE
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B TOP SOIL B TOP SOIL STOCKPILE B-B ALE S SHALL B-B ALE S SHALL R DTECTION. ENCH OR OF PROVIDE ENTRANCE. T. EROSION CTION HALL	
	Designed       TRC         Drawn       TRC         Checked       -         Approved       -         Scale       AS NOTED         No.       Revision       Date       By       Ck       PE       PE #         A       20% ANR Submission       12/5/14       TRC AMW       -
	TDI New England         Elackstone         New England Clean Power Link         TDI New England         TDI New England         Typical Details         CHAMPLAIN-LUDLOW HVDC
	TD-5           Prepared by:         CTRC         10/09/14