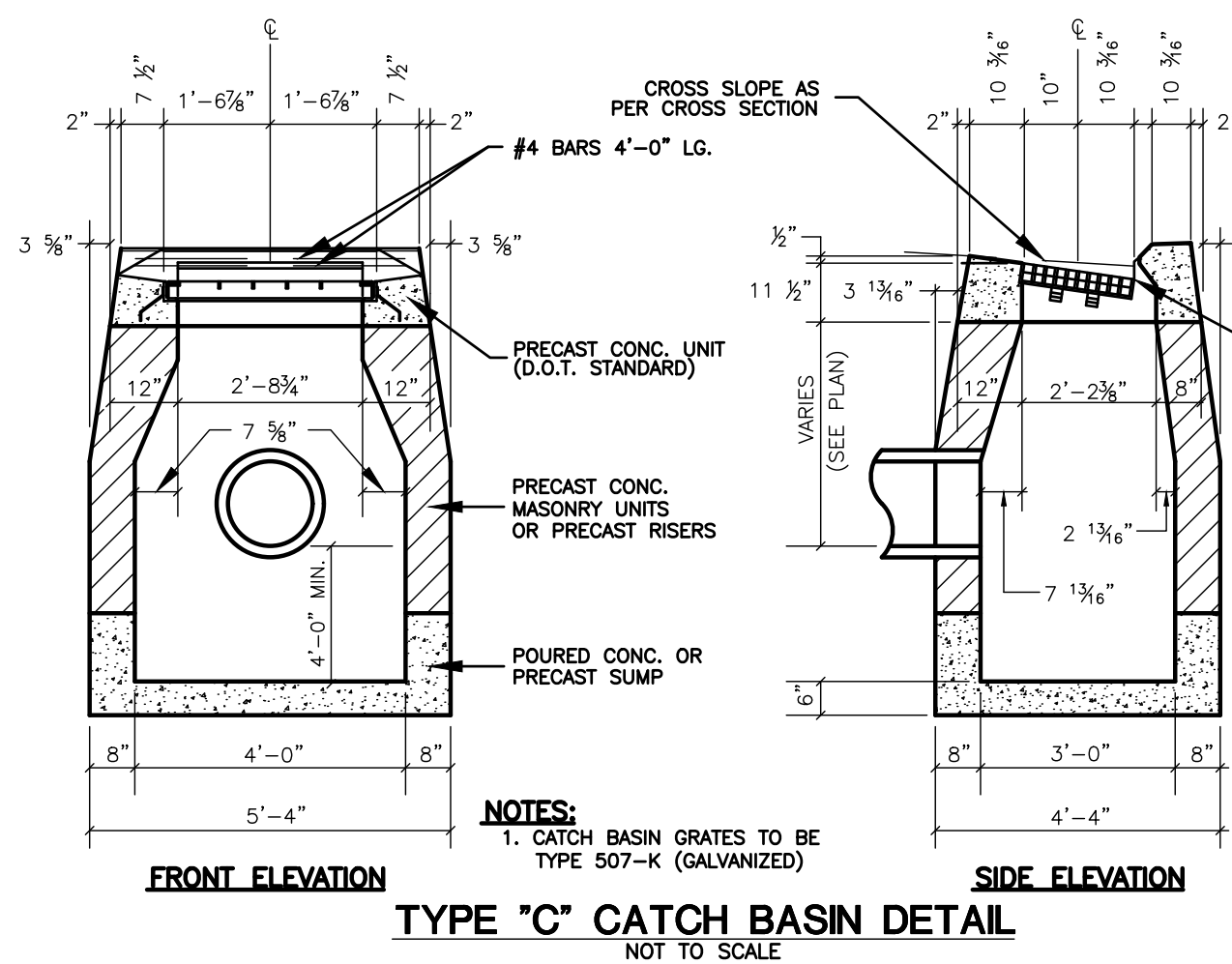
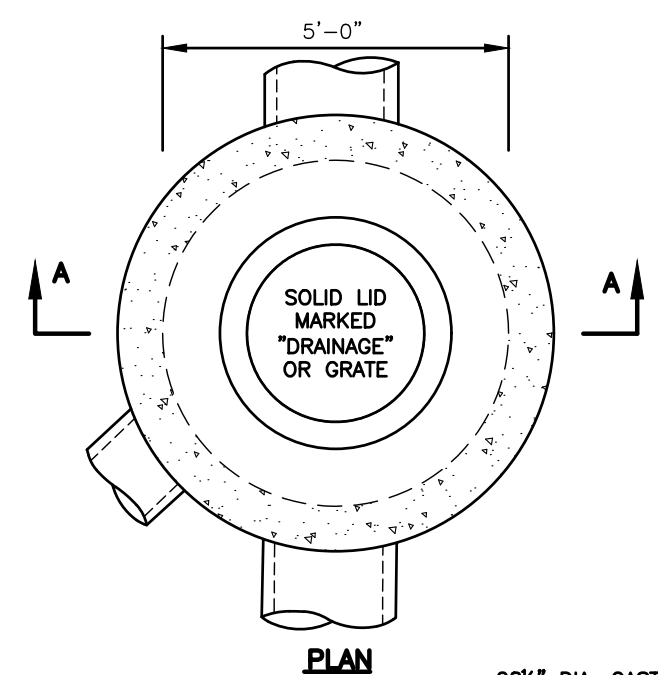


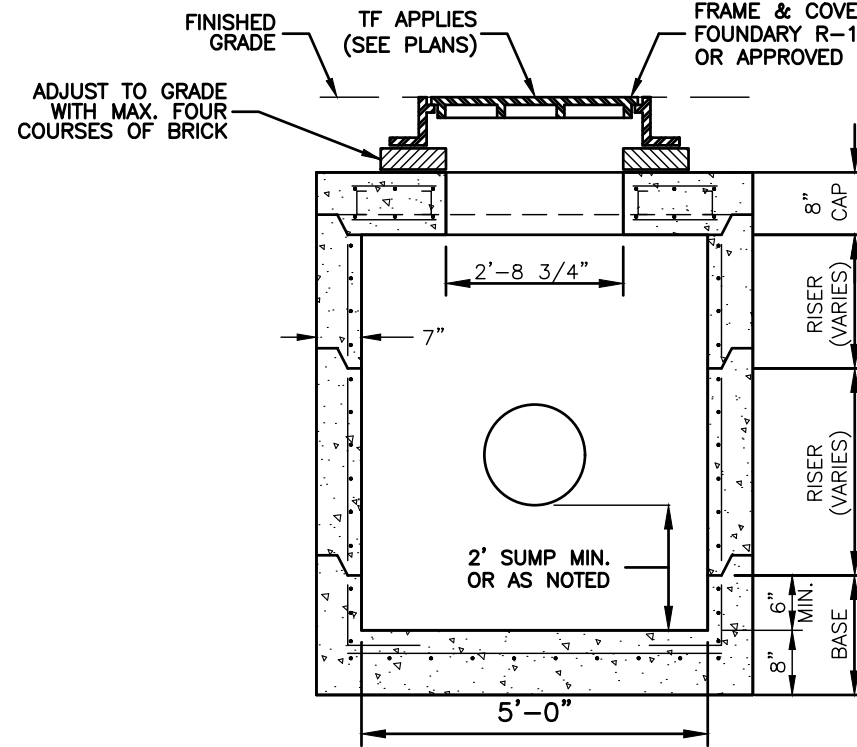


TYPE "C" CATCH BASIN DETAIL

NOT TO SCALE



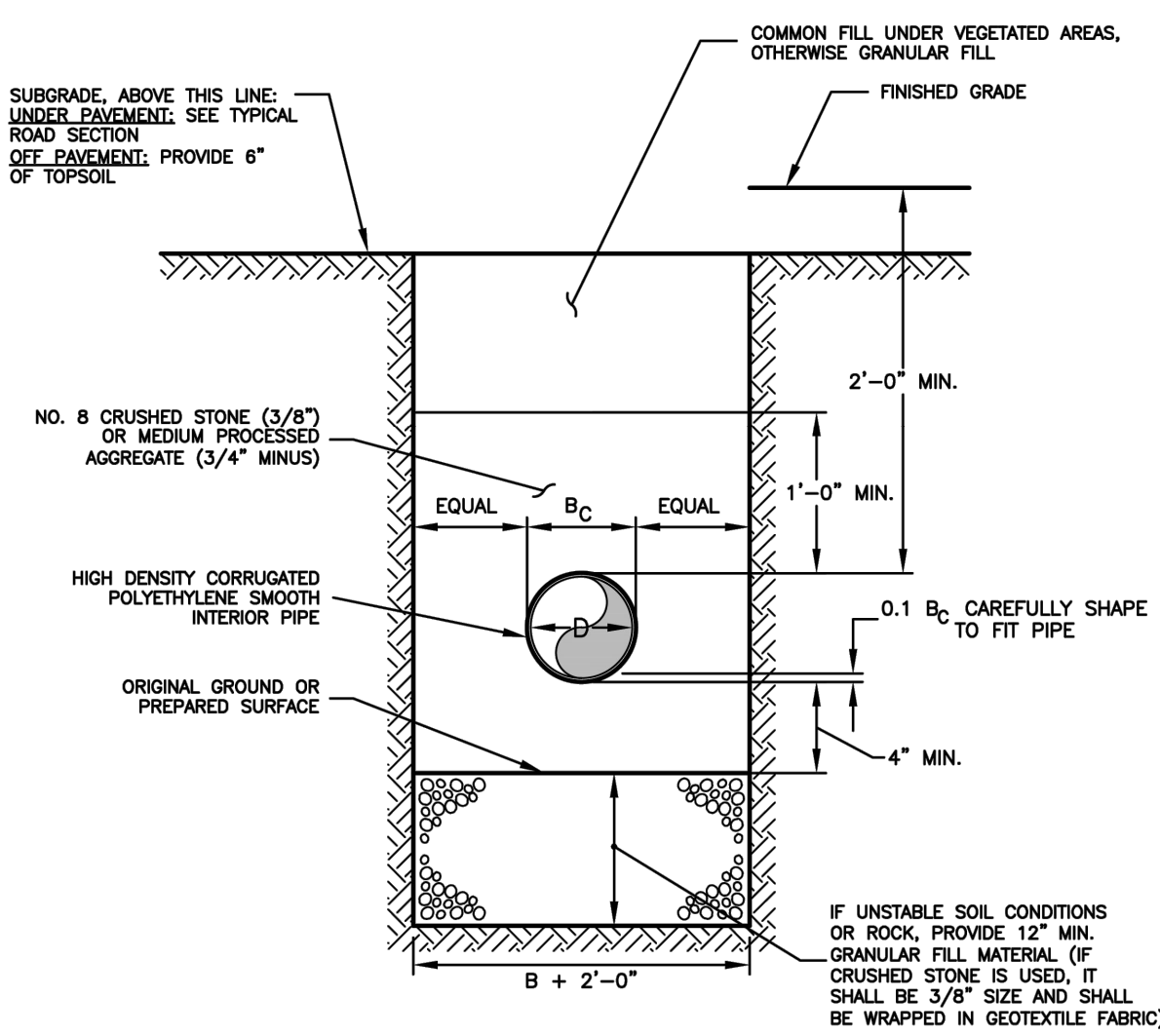
PLAN



SECTION A-A

STANDARD DRAINAGE MANHOLE DETAIL

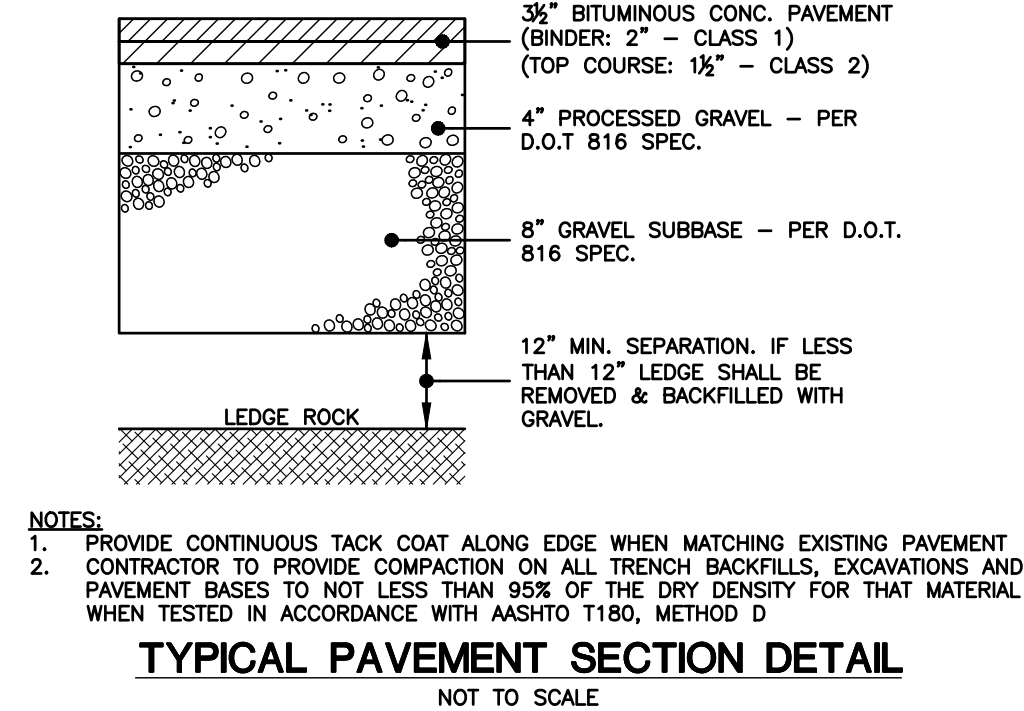
NOT TO SCALE



TRENCH DETAIL: DRAINAGE CULVERT

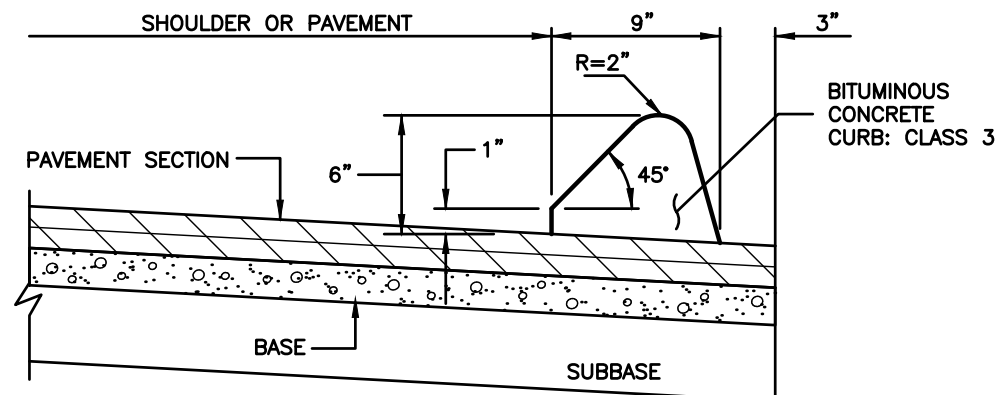
NOT TO SCALE

- NOTES:
- CONTRACTOR SHALL PROTECT EXCAVATIONS BY SHORING, BRACING, SHEET PILING, UNDERPINNING OR OTHER METHODS TO PREVENT CAVE-IN OR LOOSE SOIL FROM FALLING INTO THE EXCAVATION AND DAMAGING THE WORK OR ADJACENT STRUCTURES AND UTILITIES.



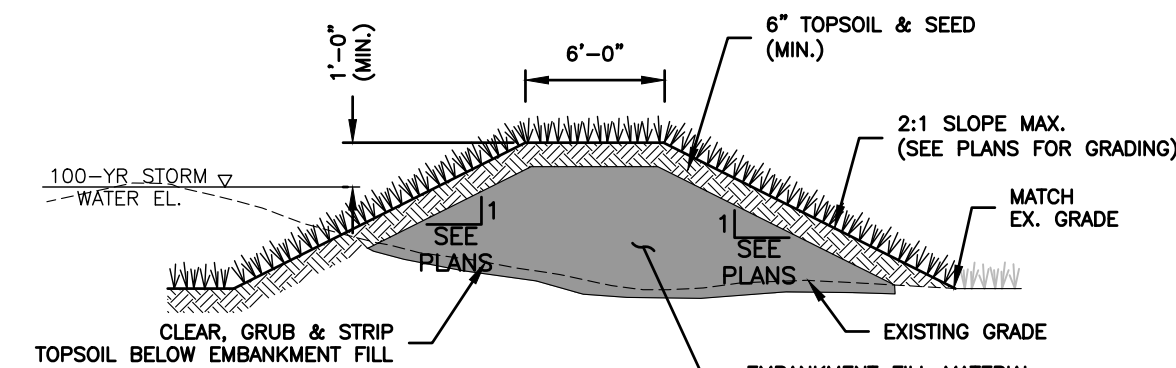
TYPICAL PAVEMENT SECTION DETAIL

NOT TO SCALE



BITUMINOUS CONCRETE LIP CURBING

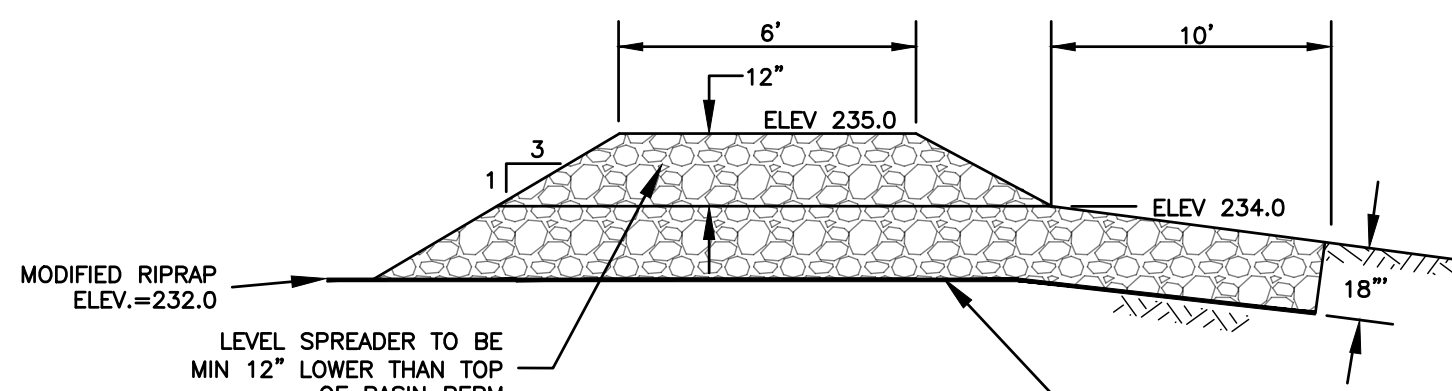
NOT TO SCALE



STORMWATER QUALITY BASIN EMBANKMENT FILL SECTION DETAIL

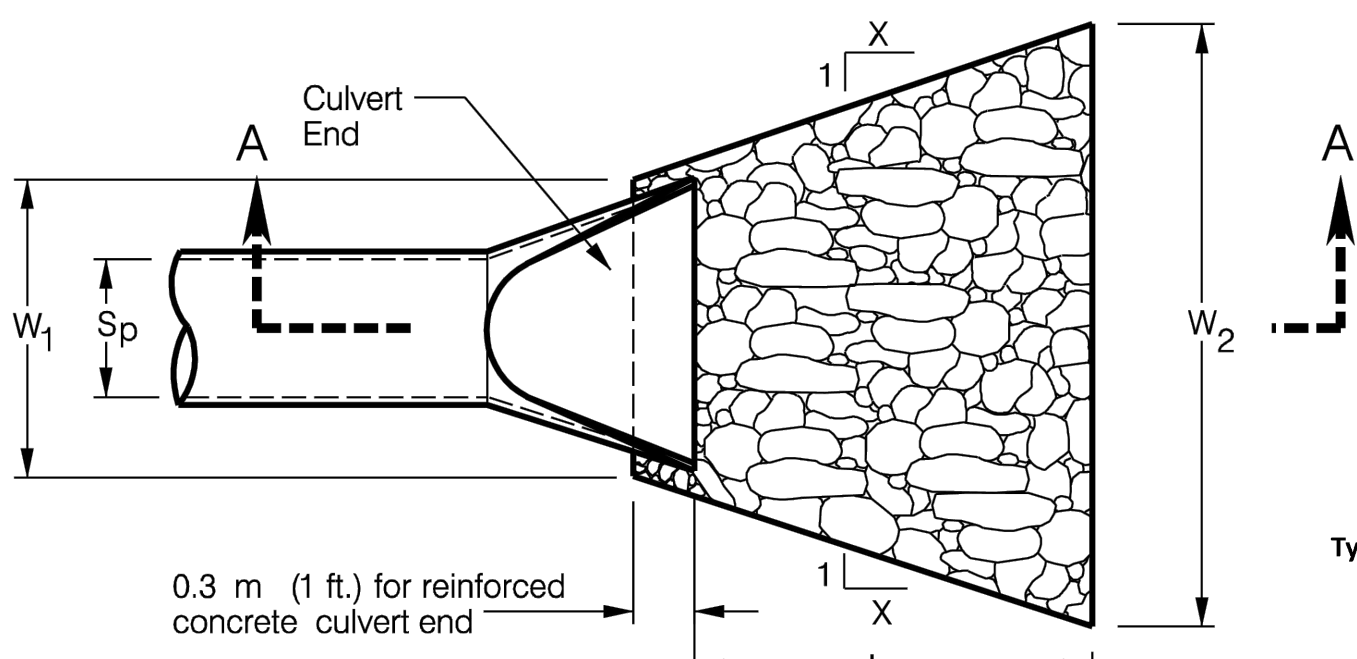
NOT TO SCALE

- NOTES:
- EMBANKMENT FILL MATERIAL SHALL CONSIST OF THE FOLLOWING:
 - CLEAN MINERAL SOIL, FREE OF ROOTS, WOODY VEGETATION, STUMPS, SOD, OVERSIZED STONES, ROCKS, OR OTHER ORGANIC UNSUITABLE MATERIAL.
 - SHALL BE A NON-FREE DRAINING GLACIAL TILL.
 - MATERIAL SHALL CONTAIN AT LEAST 15% PASSING THE #200 SIEVE AND NOT MORE THAN 50% PASSING THE #200 SIEVE.
 - NO STONES LARGER THAN 6" SHALL BE ALLOWED WITHIN THE EMBANKMENT.
 - NO STONES LARGER THAN 3" SHALL BE ALLOWED WITHIN 2 FEET OF STRUCTURES.
 - EMBANKMENT FILL SHALL BE PLACED IN MAXIMUM 9" LIFTS. THE EXISTING GRADE AND THE SURFACE OF EACH LIFT SHALL BE SCARIFIED PRIOR TO THE PLACEMENT OF THE NEXT LIFT.
 - EMBANKMENT FILL SHALL BE COMPACTED TO 90%-95% STANDARD PROCTOR COMPACTION



LEVEL SPREADER OUTLET (BASIN 1 & 2)

NOT TO SCALE



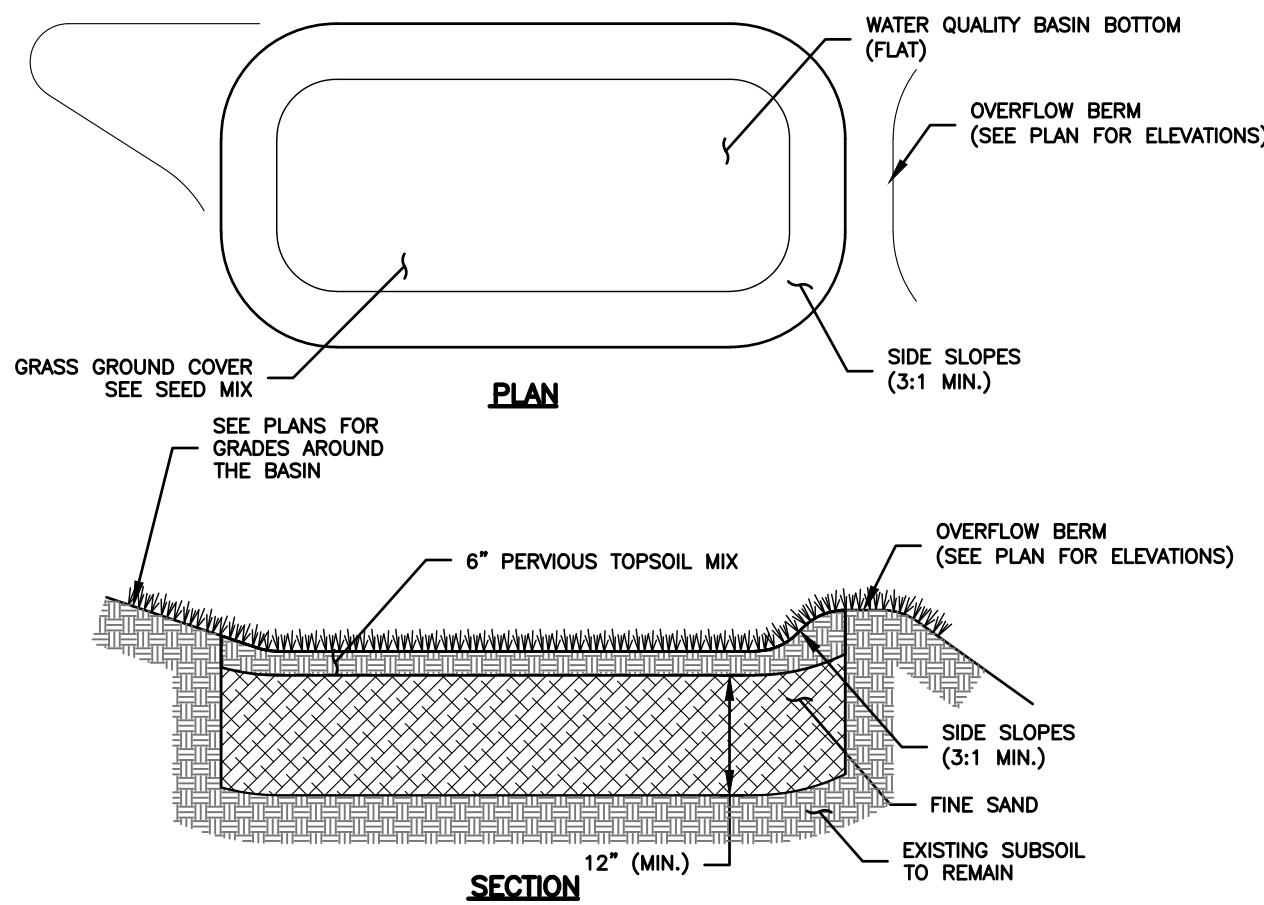
CULVERT END PLAN VIEW

NOT TO SCALE

TYPE A - RIPRAP APRON

Type A (STANDARD SIZE RIP-RAP)

Q=	71	cfs
Sp=	2.5	feet
La=	40.1	feet
W1=	7.5	feet
W2=	35.5	feet



NOTES:

- PERVIOUS TOPSOIL MIX SHALL MEET THE REQUIREMENTS OF DOT FORM 818, ARTICLE M.13.01.1 WITH THE FOLLOWING GRADATION:

SIEVE	% PASSING
#10	100%
#40	60-80%
#60	5%
#200	0%

 DO NOT COMPACT MATERIAL DURING INSTALLATION.
- FINE SAND SHALL MEET THE FOLLOWING GRADATION:

Sieve	% Passing
No. 20	100%
No. 40	100%
No. 60	100%
No. 100	50-75%
No. 140	0%
- EXCAVATE WATER QUALITY BASIN TO THE GRADES SPECIFIED WITH SIDEWALLS AS NEAR TO VERTICAL AS POSSIBLE. INSTALL PERVIOUS TOPSOIL MIX. DO NOT COMPACT TOPSOIL MIX.
- SEED MIX SHALL CONFORM TO THE REQUIREMENTS SPECIFIED IN THE VEGETATIVE COVER NARRATIVE HEREIN.
- INSTALL SHRUBS AND ALL PLANTINGS IN CONFORMANCE WITH THE CONSTRUCTION DETAILS AND LANDSCAPING NOTES HEREIN.

DO NOT COMPACT MATERIAL DURING INSTALLATION.

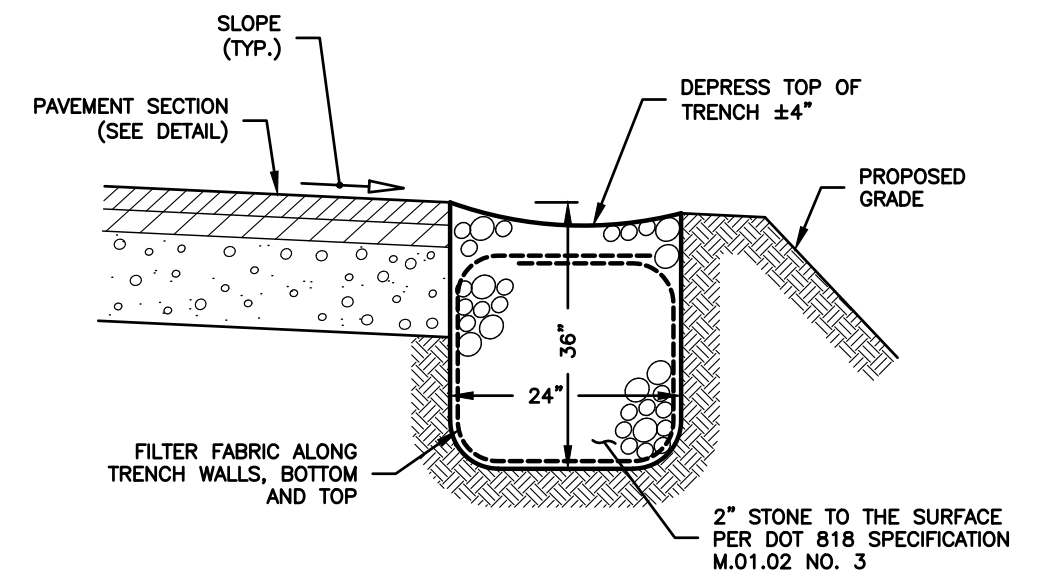
FINE SAND SHALL MEET THE FOLLOWING GRADATION:

Sieve	% Passing
No. 20	100%
No. 40	100%
No. 60	100%
No. 100	50-75%
No. 140	0%

MAINTENANCE:

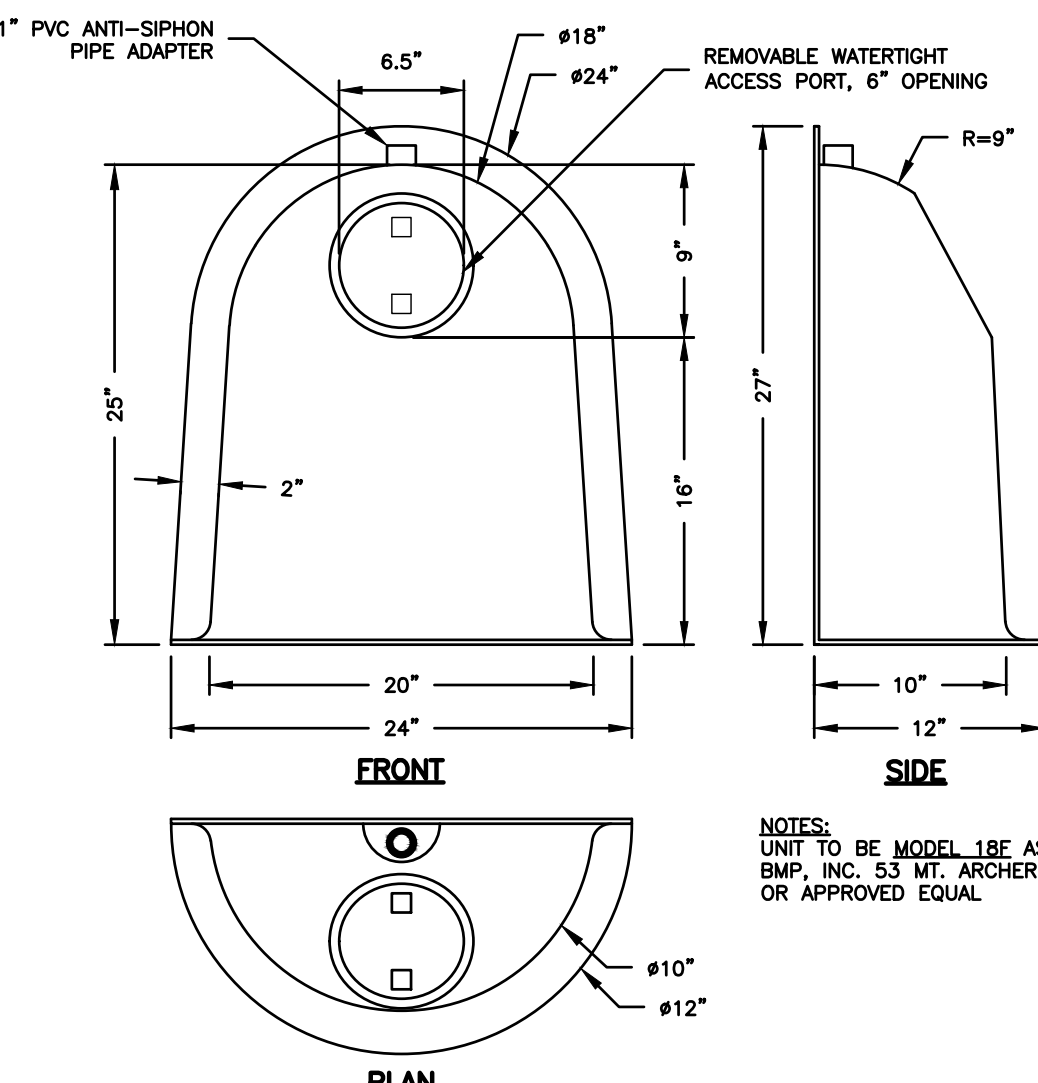
- MOW BOTTOM 2-3 TIMES PER YEARS, AS NEEDED.
- REPLENISH MULCH AROUND PLANTINGS AS NEEDED.
- REMOVE SEDIMENT AND LEAF LITTER TWICE YEARLY.
 - BETWEEN NOVEMBER 15 AND DECEMBER 15 (AFTER LEAF FALL)
 - DURING APRIL (AFTER SNOW MELT)

TYPICAL STORMWATER QUALITY BASIN DETAILS



STONE FILLED TRENCH

NOT TO SCALE



BMP "SNOUT" CATCH BASIN HOOD DETAIL

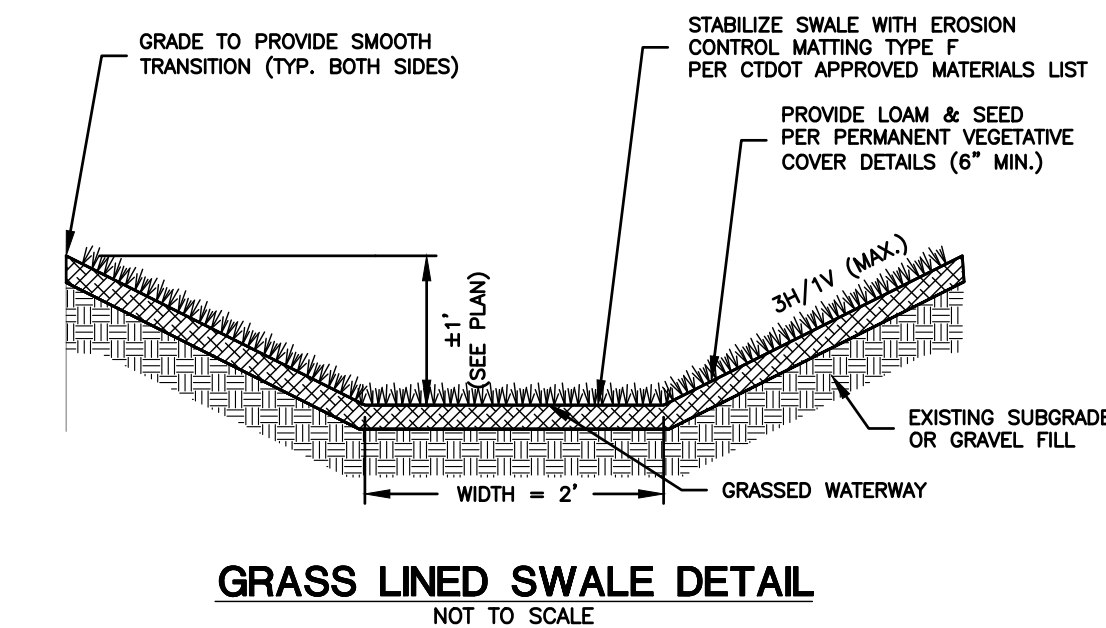
NOT TO SCALE

APPROVED BY THE LISBON PLANNING AND ZONING COMMISSION

FINAL APPROVAL: _____ DATE _____

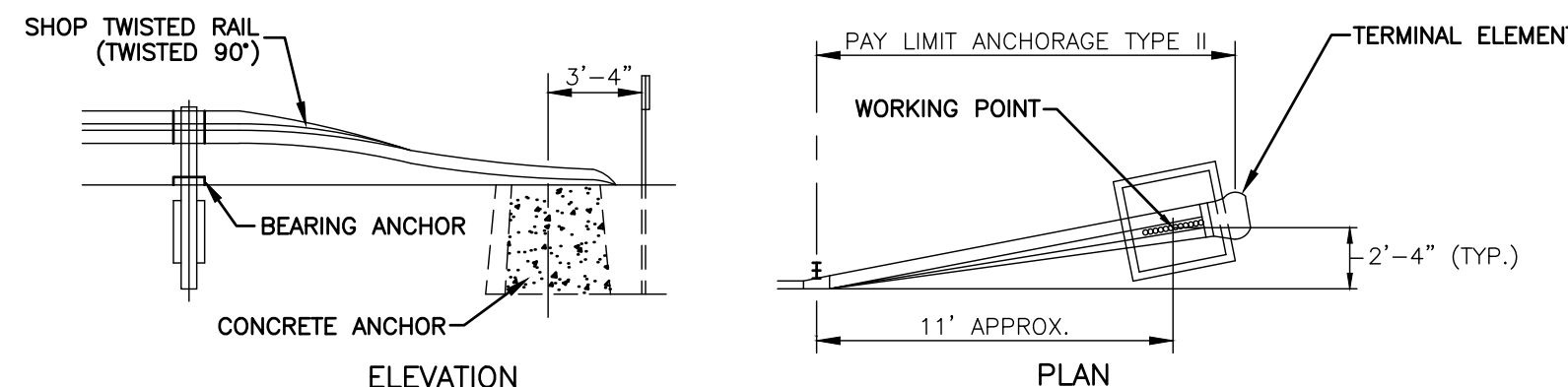
DATE OF APPROVAL: _____

EXPIRATION DATE: _____

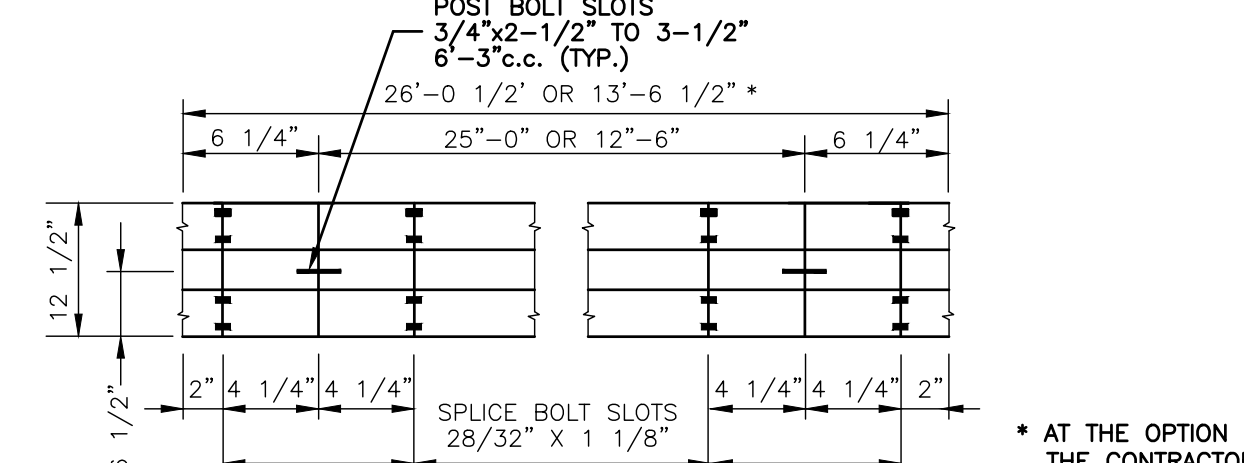


GRASS LINED SWALE DETAIL

NOT TO SCALE

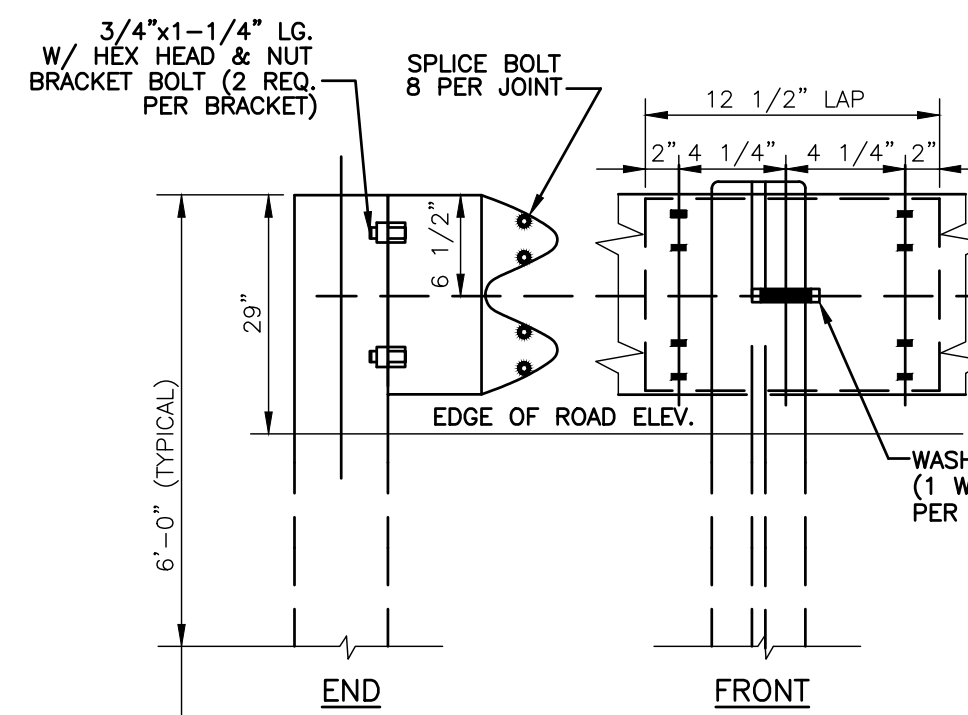


RB END ANCHORAGE - TYPE II



TYPICAL RAIL ELEMENT (GALVANIZED)

CLASS A (12 GA.)



METAL BEAM RAIL AND END ANCHORAGE

NOT TO SCALE

- NOTES:
- INSTALLATION OF RAIL AND ANCHORAGES TO BE IN ACCORDANCE WITH THE REQUIREMENTS OF CT DOT.
 - METAL BEAM RAIL TO BE DOT TYPE RB-350 PER DOT SPECIFICATIONS.
 - PROVIDE RB-TYPE II END ANCHORAGES PER DOT SPECIFICATIONS.

CLA Engineers, Inc. CIVIL • STRUCTURAL • SURVEYING 317 Main Street Norwich, CT 06360 (860) 886-1966 Fax (860) 886-9165		Project No. CLA-7787F Proj. Engineer D.P.H. Date: 06/02/25 Sheet No. 8
RAND-WHITNEY REALTY, LLC PROPOSED TRAILER STORAGE 375 MAPLE AVENUE & ROUTE 163 MONTVILLE, CT CONSTRUCTION DETAILS		