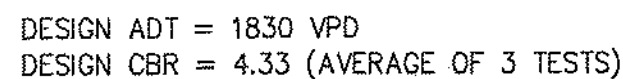




1. OVEREXCAVATE TRENCH WHEN FOUNDATION IS ROCK, SOFT, YIELDING, SATURATED, UNSTABLE, OR OTHERWISE UNSUITABLE, AS APPROVED BY THE ENGINEER, TO ALLOW PLACEMENT OF 8" MIN. VDOT #68 STONE BEDDING BENEATH PIPE.
2. SELECT BACKFILL: EXCAVATED NATIVE SOIL FREE OF ROCKS/STONES LARGER THAN 1" DIAMETER, ASPHALT, CONCRETE, ICE/FROST, TRASH/DEBRIS, WOOD OR ANY OTHER ORGANIC MATERIAL, LARGE CLODS.
3. COMMON BACKFILL: EXCAVATED NATIVE SOIL FREE OF ROCKS/STONES LARGER THAN 4" DIAMETER, ASPHALT, CONCRETE, ICE/FROST, TRASH/DEBRIS, WOOD OR ANY OTHER ORGANIC MATERIAL, LARGE CLODS.
4. PLACE BACKFILL IN 6" LIFTS MAX.
5. TOPSOIL: EXCAVATED NATIVE TOPSOIL (6" MAX.), PROPERLY STORED DURING TRENCH WORK, AUGMENTED AND PLACED AS INDICATED, OR OFF-SITE TOPSOIL, AUGMENTED AND PLACED AS INDICATED. NATIVE TOPSOIL DESIGNATED BY THE OWNER AS UNSUITABLE MAY BE USED AS COMMON BACKFILL AS NOTED ABOVE.

1 NOT TO SCALE



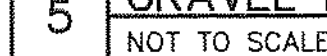
NOTES:
CONTRACTOR SHALL PROVIDE CBR TESTS ON IN PLACE SUBGRADE MATERIAL PRIOR TO INSTALLATION OF PAVEMENT SECTION. PAVEMENT SECTION DESIGN SHALL BE ANALYZED AND MODIFIED AS REQUIRED TO PROVIDE ADEQUATE STRUCTURAL INTEGRITY.

4	HEAVY D
	NOT TO SCALE



4. DEPTH OF INLET (H) TO BE SHOWN ON PLANS FOR DEPTH GREATER THAN 10' USE STANDARD 51-1.
5. THE "H" DIMENSION SHOWN ON THE PLANS SHALL BE THE DEPTH OF THE PLANS TO THE BOTTOM OF THE INLET. THE OUTFALL PIPE TO THE TOP OF THE SHAPING SHALL BE SHOWN AT THE APPROXIMATE ONLY. FOR ESTIMATING PURPOSES AND THE ACTUAL DIMENSIONS SHALL BE DETERMINED BY THE CONTRACTOR FROM FIELD CONDITIONS.
6. WHEN SPECIFIED ON THE PLANS THE CONTRACTOR SHALL PROVIDE A MINIMUM DISTANCE WITH STANDARD 15-1. THE COST OF THE SHAPING SHALL BE SHOWN IN THE BID PRICE INCIDENTAL TO THE SHAPING IS TO BE INCLUDED IN THE BID PRICE FOR THE STRUCTURE.
7. IN THE EVENT THE INVERT OF THE OUTFALL PIPE IS HIGHER THAN THE TOP OF THE SHAPING THE CONTRACTOR SHALL PROVIDE A MINIMUM DISTANCE WITH STANDARD 15-1. THE COST OF THE SHAPING SHALL BE SHOWN IN THE BID PRICE FOR THE STRUCTURE.
8. STEPS ARE TO BE PROVIDED WHEN H IS 4'-0" OR GREATER. FOR DETAILS SEE STANDARD 51-1.
9. THIS ITEM MAY BE PRECAST OR CAST-IN-PLACE.
 - A. #4 X 8" SMOOTH DOWELS AT APPROXIMATELY 12" TO 18" ON CENTER IN ALL AREAS ADJACENT TO THE CONCRETE. THE CONTRACTOR SHALL SETTLEMENT IN LINE OF DOWELS SHALL BE SHOWN BY THE CONTRACTOR. SEE STANDARD T-D-14.4 FOR ALTERNATE DESIGN.
 - B. 3" DIAMETER DEEP HOLE WITH 12"x12" PLASTIC HARDWARE CLOTH 1/2" MESH OR GALVANIZED STEEL WIRE MINIMUM 1/4" DIAMETER. THE CONTRACTOR SHALL HARDWARE CLOTH ANCHORED FIRMLY TO THE OUTSIDE OF THE STRUCTURE.
 - C. CAST IN PLACE CONCRETE IS TO BE CLASS A3 (3000 PSI). PRECAST CONCRETE IS TO BE 4000 PSI.
 - D. ANY ALTERNATE METHODS OF ANCHORING MEETING THE APPROVAL OF THE ENGINEER MAY BE SUBSTITUTED FOR THE CAST IRON DOWELS SHOWN HEREIN.
 - E. DUMP NO WASTE DRAINS TO WATERWAY. VENTING IS REQUIRED ON ALL DI-1. LOCATION OF VENTING MAY VARY BY MANUFACTURER.

2 VDOT STA
NOT TO SCALE



1. COMPLY WITH ALL LOCAL VDOT RESIDENCY REQUIREMENTS.
2. EXTEND STEEL CASING A MINIMUM OF 5 FEET PAST THE EDGE OF PAVEMENT ON SECONDARY ROADS AND A MINIMUM OF 10 FEET PAST THE EDGE OF PAVEMENT ON PRIMARY ROADS.

3 WITHIN V
NOT TO SCALE

