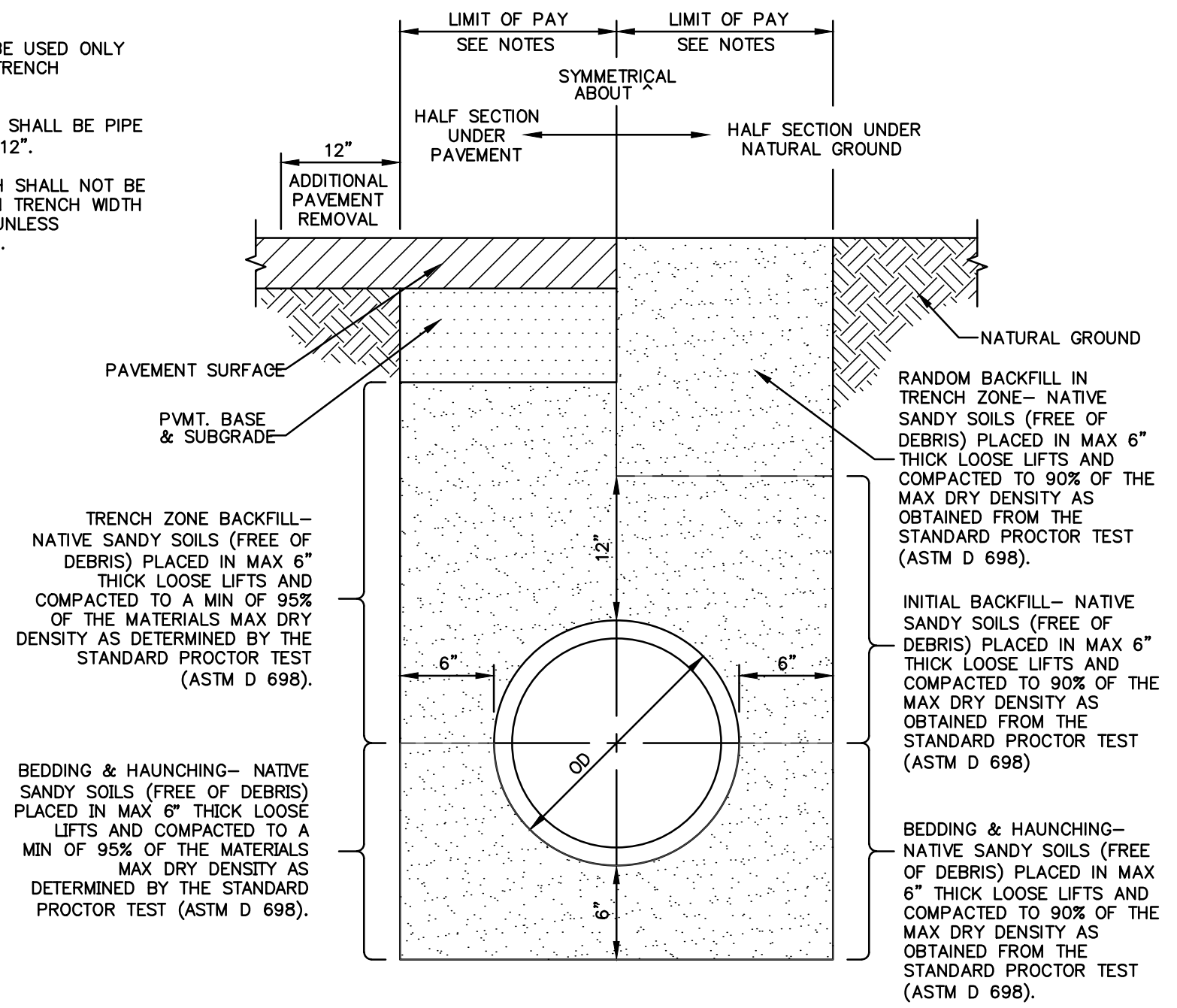
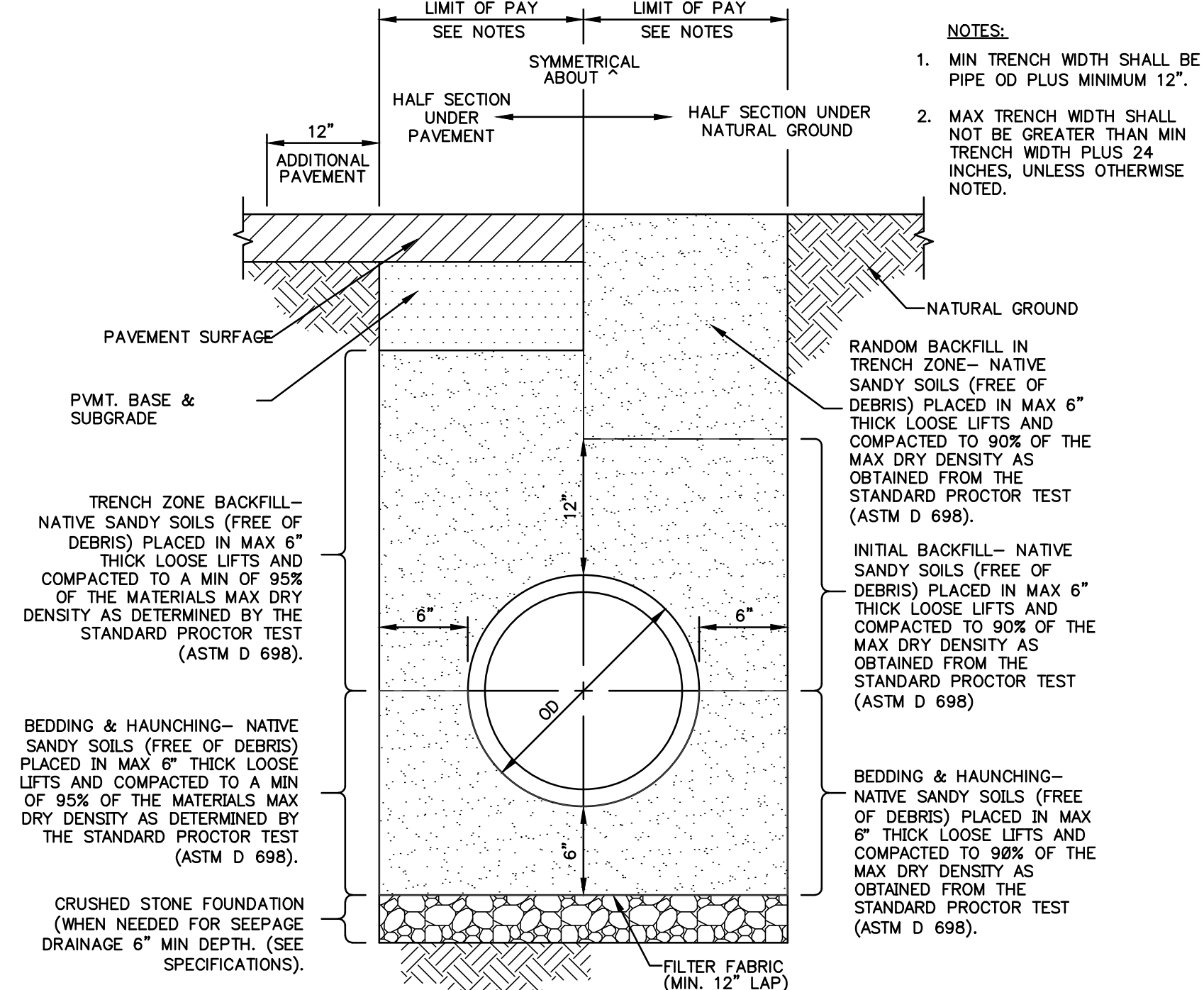


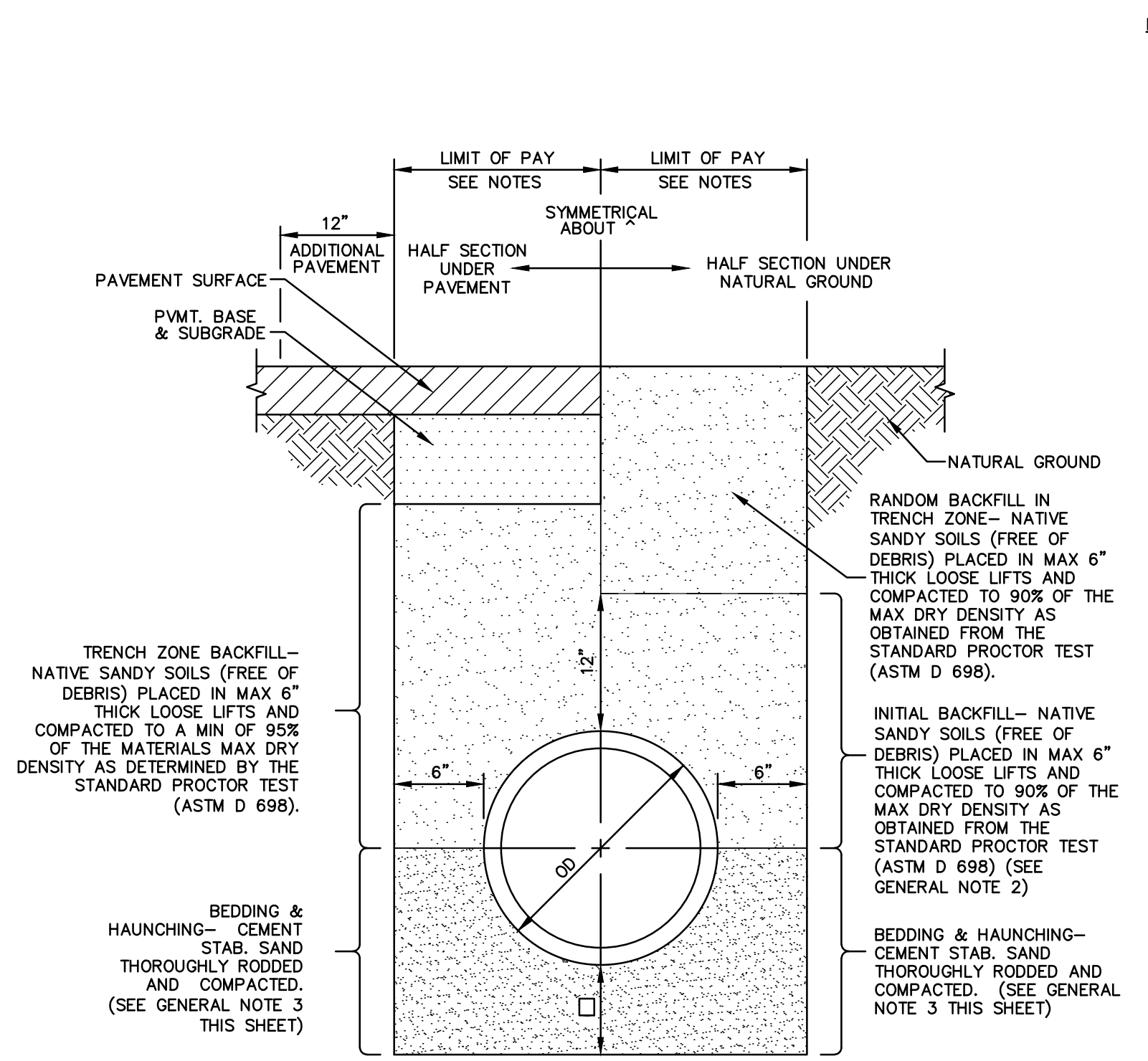
- NOTES:**
1. THIS DETAIL MAY BE USED ONLY FOR DRY STABLE TRENCH CONDITIONS.
 2. MIN TRENCH WIDTH SHALL BE PIPE OD PLUS MINIMUM 12".
 3. MAX TRENCH WIDTH SHALL NOT BE GREATER THAN MIN TRENCH WIDTH PLUS 24 INCHES, UNLESS OTHERWISE NOTED.



TYPICAL WATER LINE & SANITARY SEWER FORCE MAIN BEDDING & BACKFILL FOR DRY STABLE TRENCH
SCALE: N.T.S.

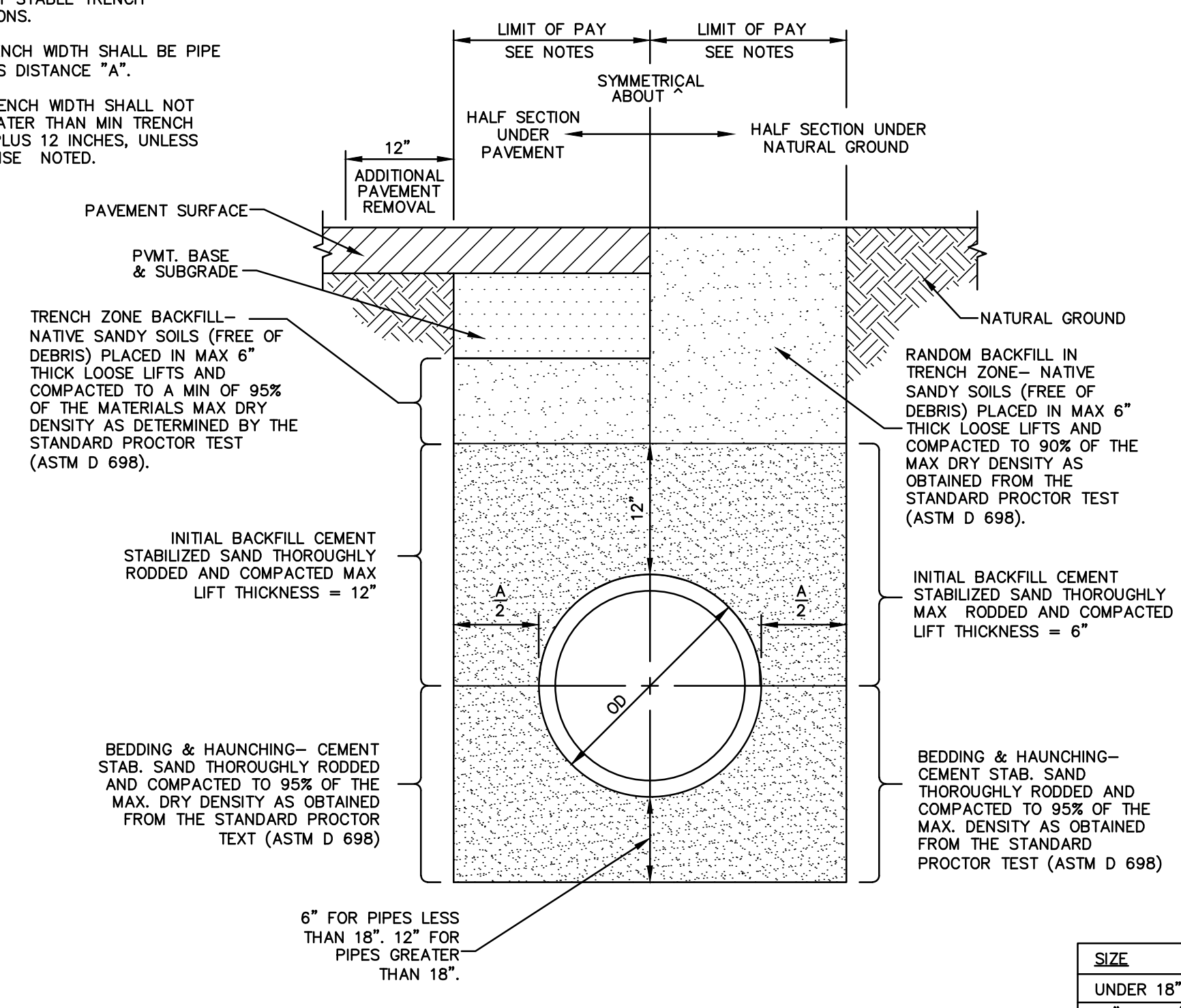


TYPICAL WATER LINE & SANITARY SEWER FORCE MAIN CRUSHED STONE FOUNDATION FOR WET STABLE TRENCH
SCALE: N.T.S.



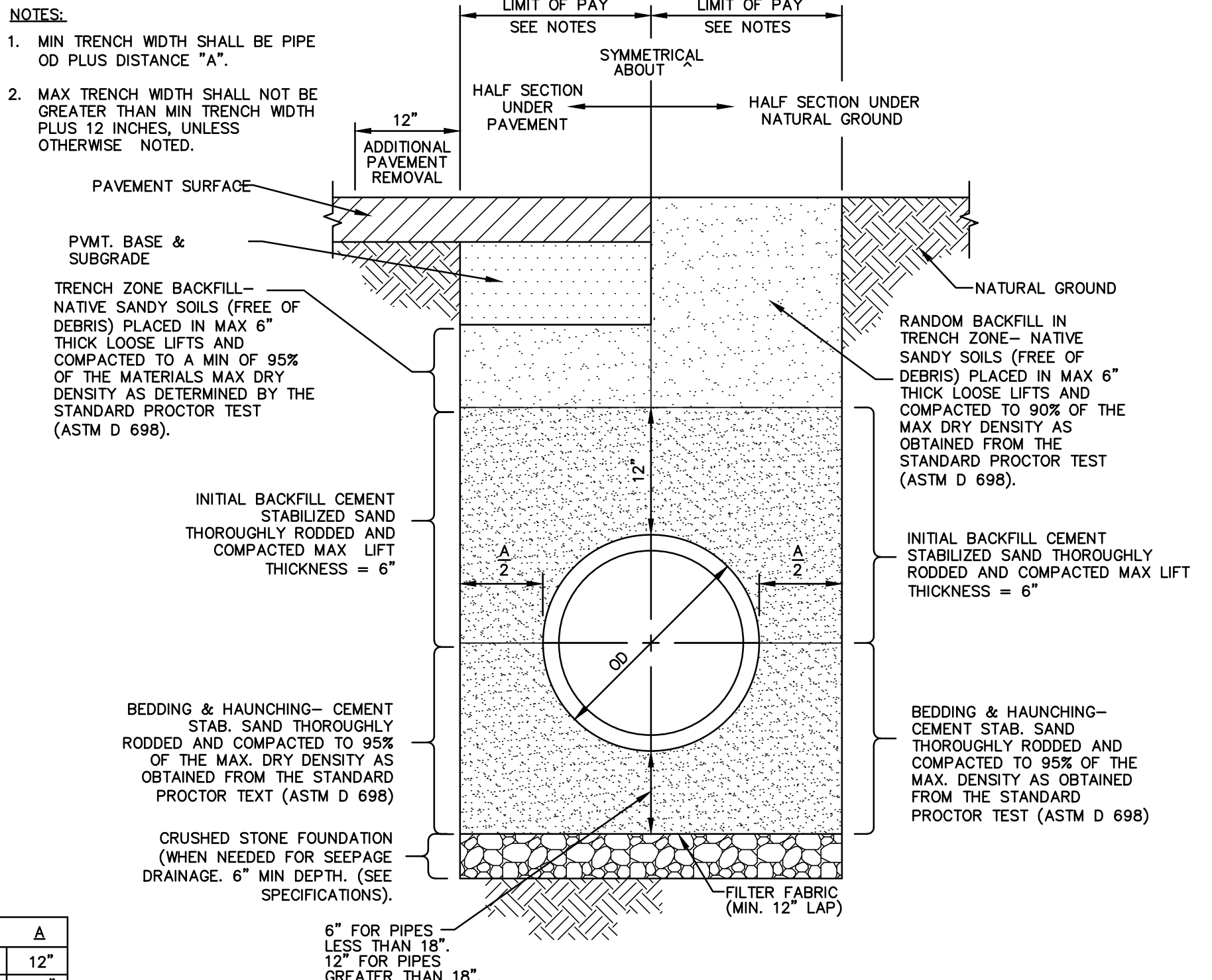
TYPICAL SANITARY SEWER (6"-15") GRAVITY LINE BEDDING & BACKFILL FOR DRY STABLE TRENCH
SCALE: N.T.S.

- NOTES:**
1. THIS DETAIL MAY BE USED ONLY FOR DRY STABLE TRENCH CONDITIONS.
 2. MIN TRENCH WIDTH SHALL BE PIPE OD PLUS DISTANCE "A".
 3. MAX TRENCH WIDTH SHALL NOT BE GREATER THAN MIN TRENCH WIDTH PLUS 12 INCHES, UNLESS OTHERWISE NOTED.

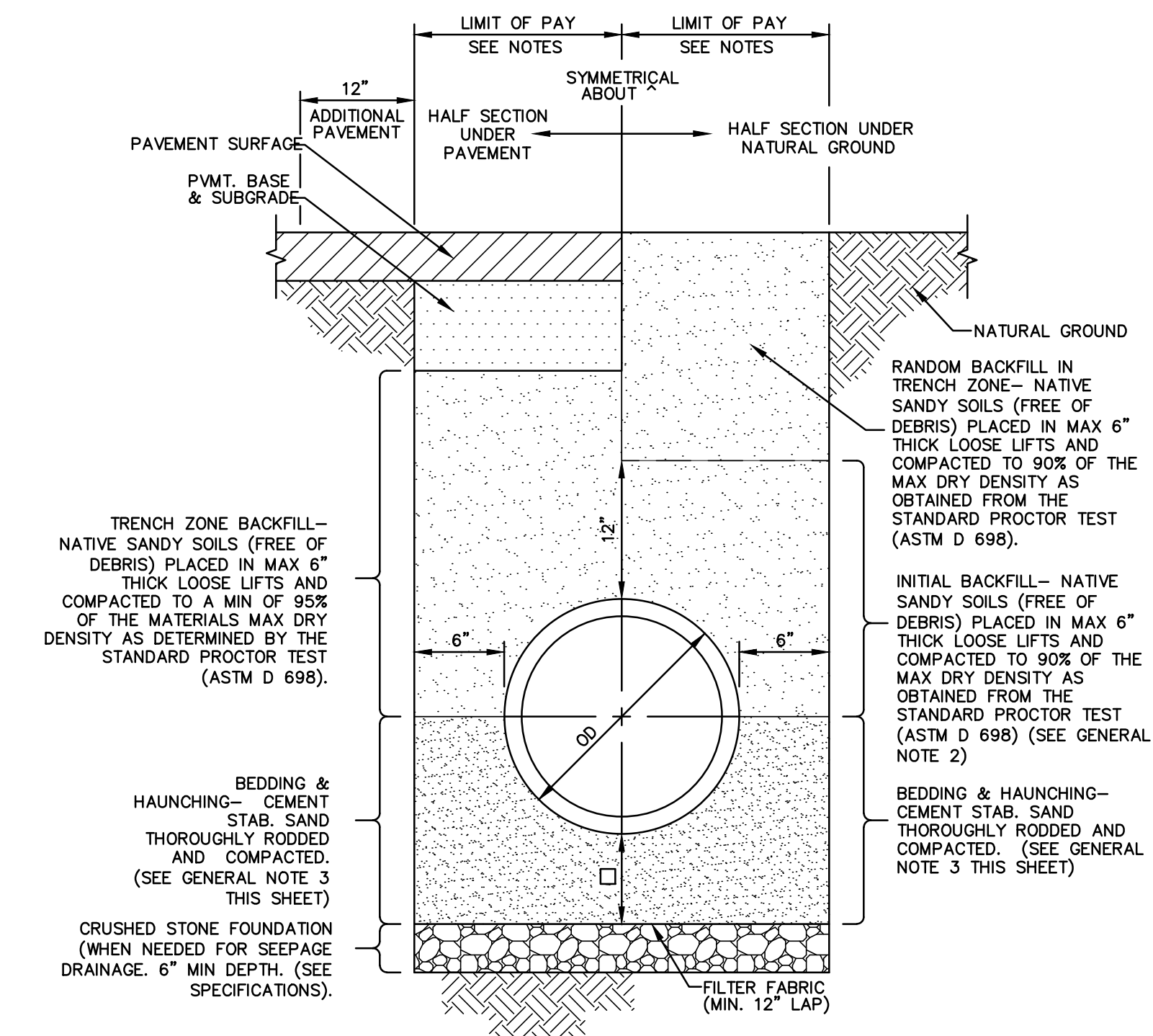


SANITARY SEWER TRUNK MAIN (24"-30") GRAVITY LINE BEDDING & BACKFILL FOR DRY STABLE TRENCH
SCALE: N.T.S.

SIZE	A
UNDER 18"	12"
18" TO 30"	24"
OVER 30"	36"



SANITARY SEWER TRUNK MAIN (24"-30") GRAVITY LINE CRUSHED STONE FOUNDATION FOR WET STABLE TRENCH
SCALE: N.T.S.



TYPICAL SANITARY SEWER (6"-15") GRAVITY LINE CRUSHED STONE FOUNDATION FOR WET STABLE TRENCH
SCALE: N.T.S.

- NOTES:**
1. THIS DETAIL MAY BE USED ONLY FOR DRY STABLE TRENCH CONDITIONS.
 2. MIN TRENCH WIDTH SHALL BE PIPE OD PLUS MINIMUM 12".
 3. MAX TRENCH WIDTH SHALL NOT BE GREATER THAN MIN TRENCH WIDTH PLUS 24 INCHES, UNLESS OTHERWISE NOTED.

- NOTES:**
1. MIN TRENCH WIDTH SHALL BE PIPE OD PLUS MINIMUM 12".
 2. MAX TRENCH WIDTH SHALL NOT BE GREATER THAN MIN TRENCH WIDTH PLUS 24 INCHES, UNLESS OTHERWISE NOTED.

GENERAL NOTES:

1. TRENCH EXCAVATION, BEDDING & BACKFILL COSTS ARE INCIDENTAL TO PIPE INSTALLATION AND ARE BASED ON THE LIMITS SHOWN IN THESE DETAILS. ANY COSTS INCURRED FOR AREAS EXCAVATED AND/OR REQUIRING BACKFILL BEYOND THESE LIMITS RESULTING FROM CONTRACTORS FAILURE TO CONTROL THESE LIMITS SHALL BE BORNE BY THE CONTRACTOR.
2. WHERE PROPOSED SANITARY SEWERS CROSS PROPOSED OR EXISTING WATER LINES, INITIAL BACKFILL FOR 10' EACH SIDE OF CROSSING SHALL BE CEMENT STABILIZED SAND (UNDER NATURAL GROUND OR UNDER PAVEMENT).
3. IN THE EVENT THE CONTRACTOR CAN DEMONSTRATE THE ABILITY TO OBTAIN SPECIFIED COMPACTION DENSITIES W/ THE USE OF NATIVE MATERIALS, CONTRACTOR MAY OMIT CEMENT STABILIZED SAND FOR BEDDING AND HAUNCHING OF TRENCH FOR 6"-15" PIPE SIZES ONLY. OWNERS REPRESENTATIVE SHALL MAKE FINAL DECISION FOR APPROVING THIS OMITTANCE.

MK.	DESCRIPTION	DATE	DWN.	CHK.



City of Galveston, Texas

Department of Public Works

Water Line and Sanitary Sewer Line Construction Details

SHEET No.:	SCALE:	SHEET
DATE: JULY, 2011	HORZ : NTS VERT : NTS ONE INCH	
DWN BY:	IF ABOVE MARK DOES NOT MEASURE ONE INCH, THEN THIS DWG. NOT TO SCALE	
CHD BY:		OF