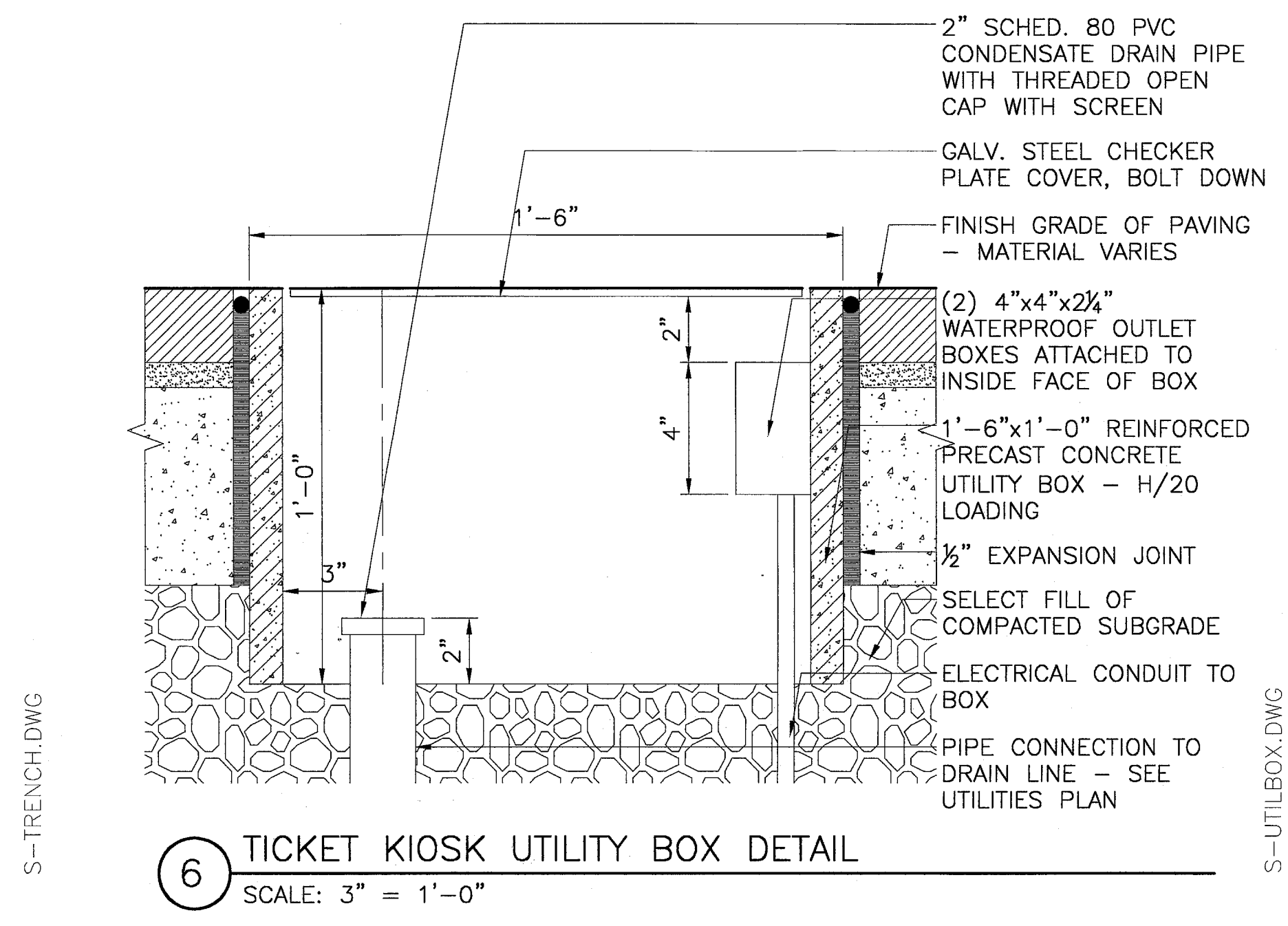
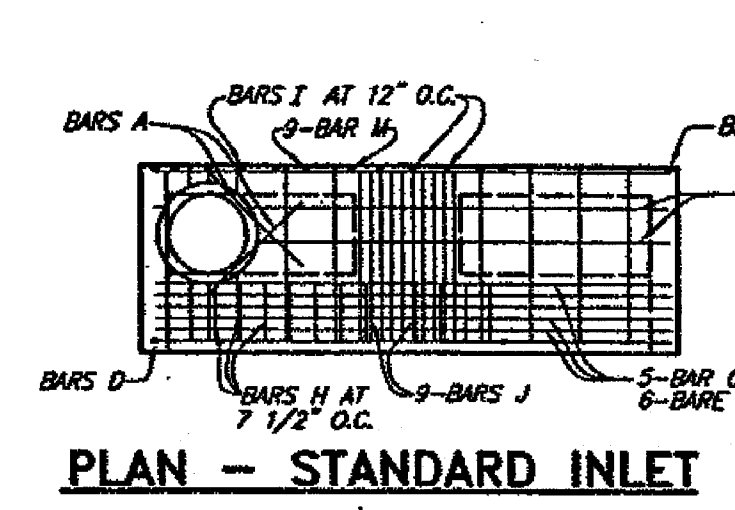


5 TRENCH DRAIN SECTION
 SCALE: 1 1/2" = 1'-0"

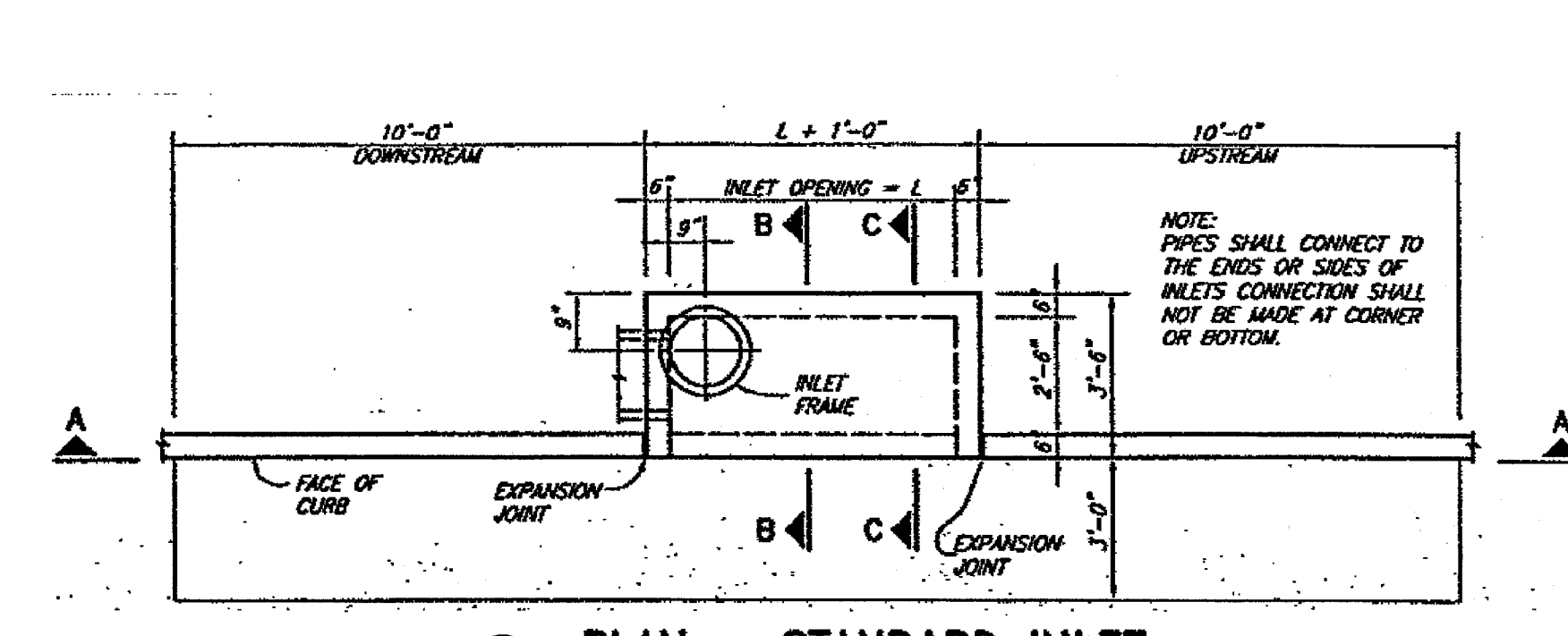


6 TICKET KIOSK UTILITY BOX DETAIL
 SCALE: 3" = 1'-0"

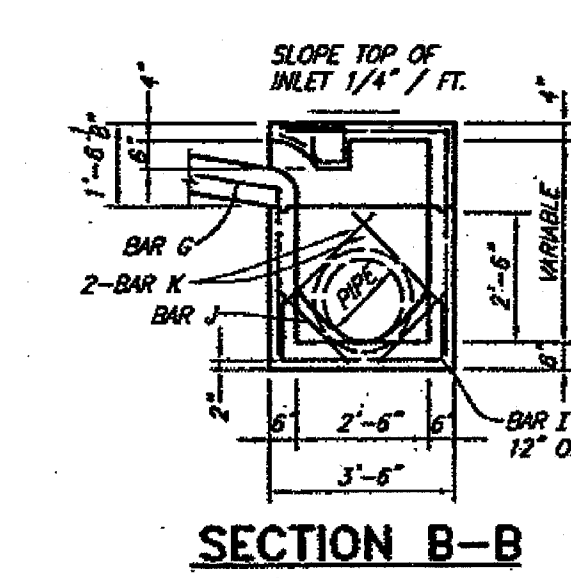


REINFORCING STEEL SCHEDULE
 DIMENSIONS SHOWN ARE FOR MAXIMUM SIZE INLETS

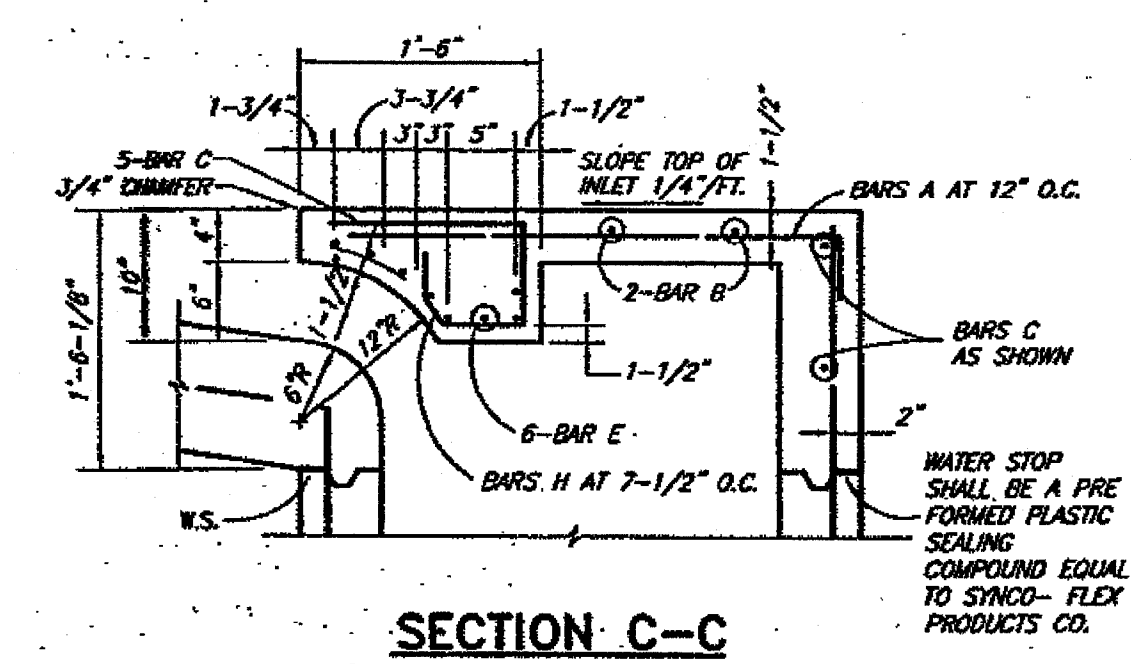
Bar	A	B	C	D	E	F	G	H	I	J	K	L	M	N
Length	3	3	3	3	3	3	3	3	3	3	3	3	3	3
Spacing	3'-2"	3'-2"	3'-2"	3'-2"	3'-2"	3'-2"	3'-2"	3'-2"	3'-2"	3'-2"	3'-2"	3'-2"	3'-2"	3'-2"



1 PLAN - STANDARD INLET
 6 FOOT INLETS

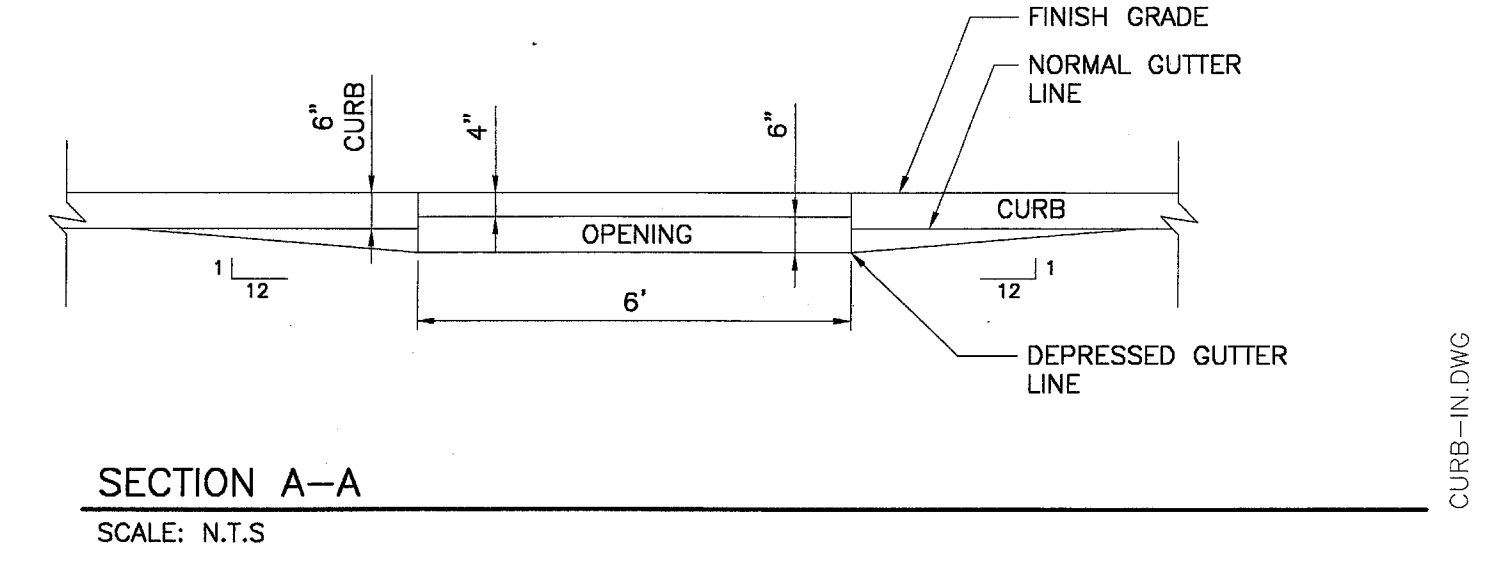


SECTION B-B

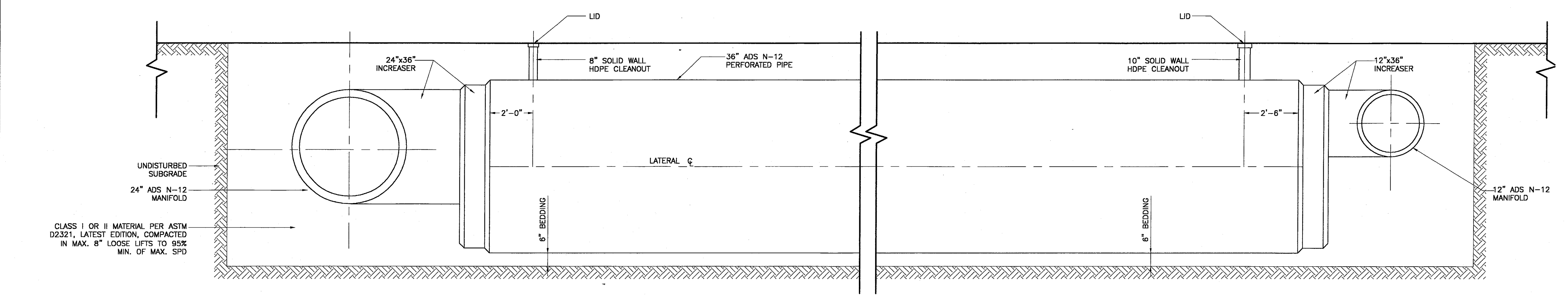


SECTION C-C

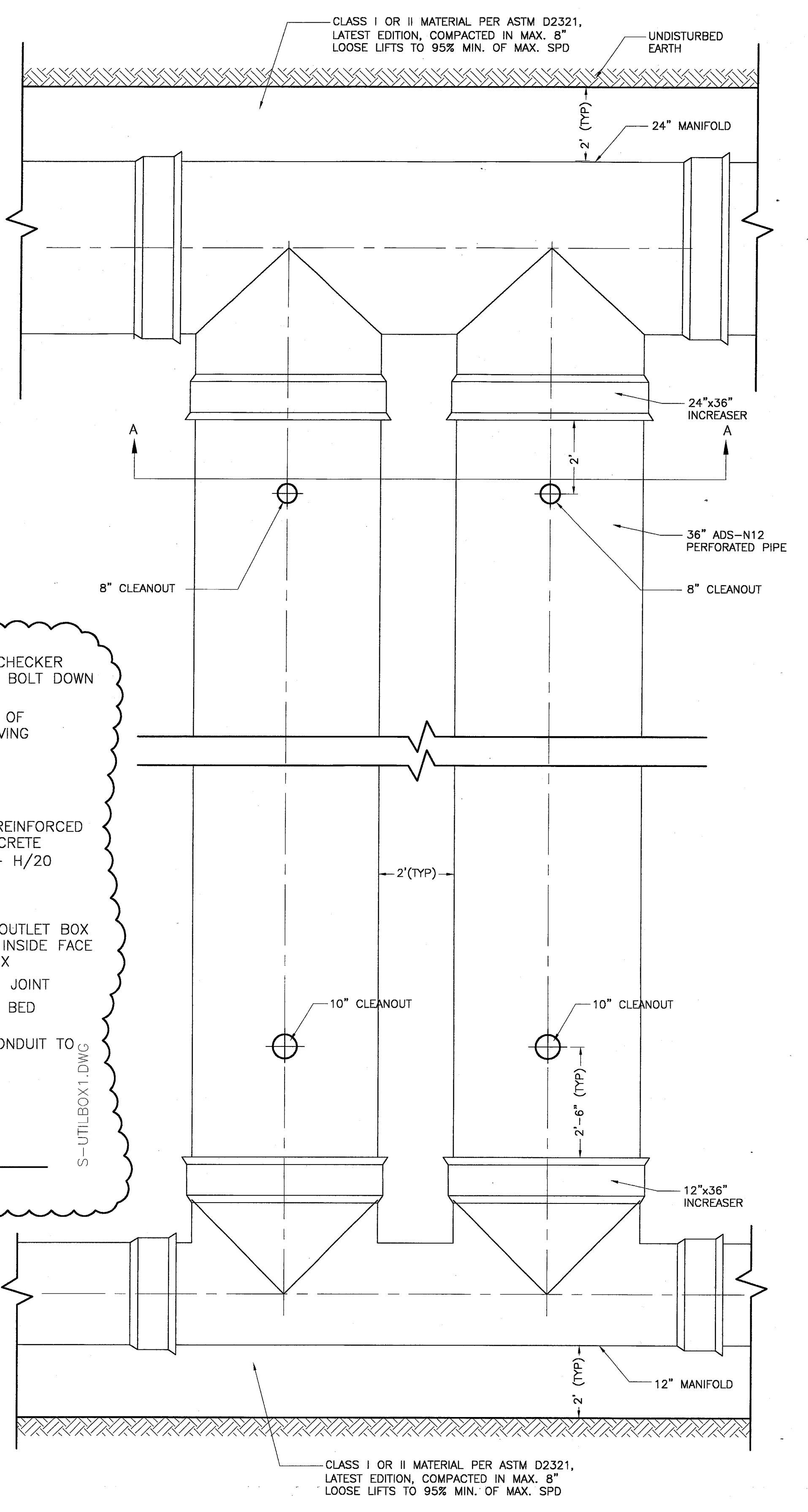
NOTES:
 THE RECORD OF THE EXCAVATION FOR INLET BOX MUST PROVIDE A FIRM, LEVEL BED FOR THE BASE SECTION TO REST UPON.
 A MINIMUM OF 6 INCHES OF 1" DIAMETER (MAXIMUM) ROCK OR GRAVEL SHALL BE USED TO PREPARE THE BEDDING TO FINAL GRADE OR LEV OF THIS. AT LEAST 6 INCHES OF 3-SACK CEMENT STABILIZED SAND SHALL BE USED TO FINISH THE BEDDING TO GRADE. CEMENT STABILIZED SAND SHALL BE ALLOWED TO SET BY KEEPING HOLE PUMPED DRY.
 AFTER CASING HAS BEEN INSTALLED ON THE PROPER BEDDING, THE BACKFILL MATERIAL, WHICH IS FREE FLOWING AND CLEAR OF ROCKS, IN EXCESS OF 4" DIAMETER AND OTHER LUMPS WHICH WOULD PROHIBIT PROPER CONSTRUCTION, SHALL BE COMENCED IN LIFTS OF NO MORE THAN 18". THE MATERIAL USED FOR BACKFILL SHOULD BE A TYPE SUITABLE TO OBTAIN THE DENSITY REQUIREMENTS FOR THE SPECIFIC JOB.



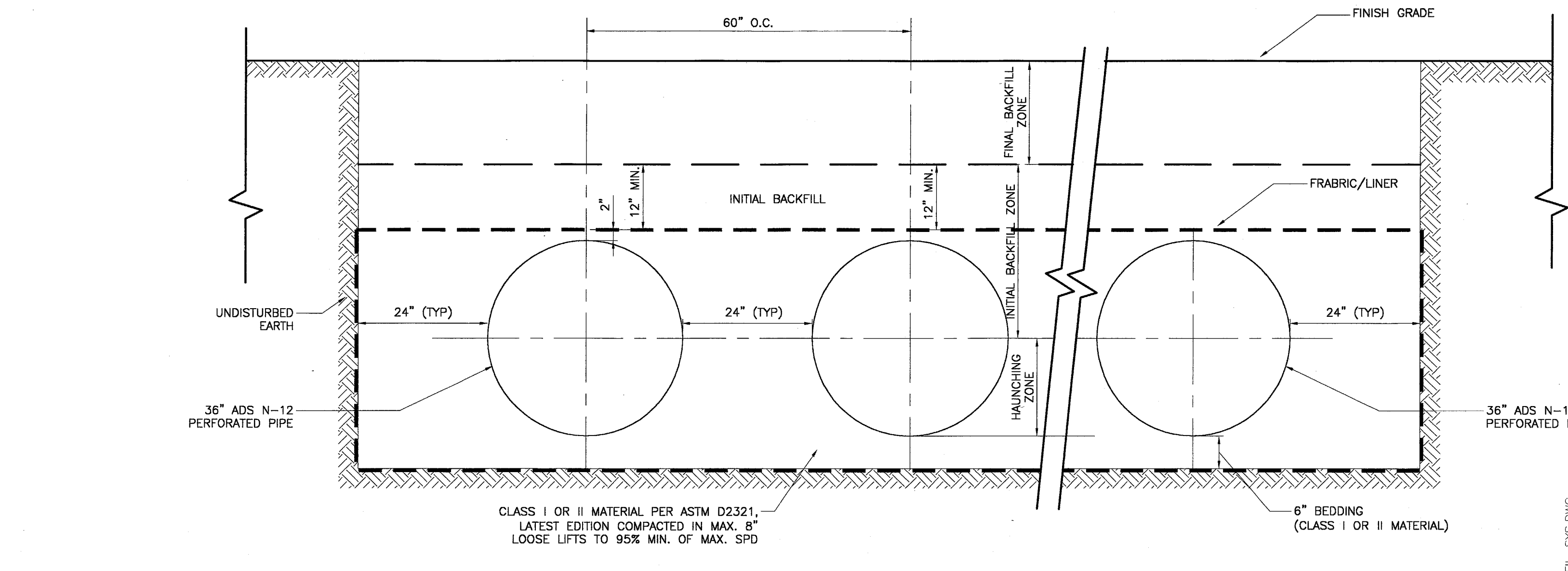
SECTION A-A
 SCALE: N.T.S.



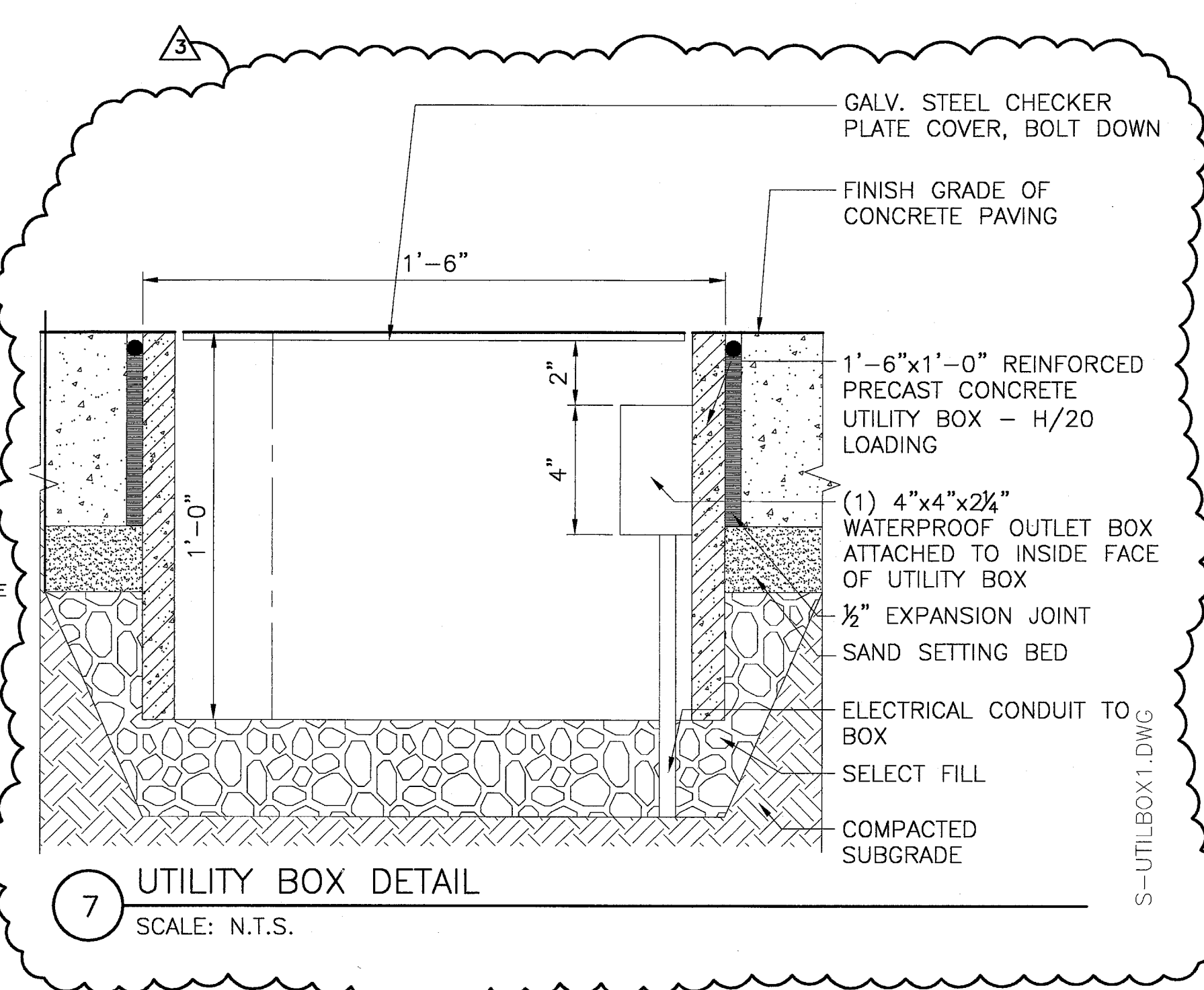
3 TYPICAL CLEANOUT DETAIL (SECTION B-B)
 SCALE: N.T.S.



2 TYPICAL LAYOUT OF RETENTION FIELD
 SCALE: N.T.S.



4 CROSS SECTION A-A OF RETENTION FIELD
 N.T.S.

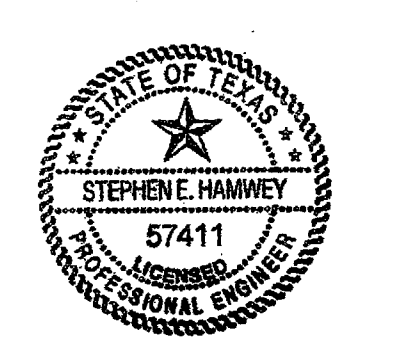


7 UTILITY BOX DETAIL
 SCALE: N.T.S.

INSTALLATION:
 1. CLASS I MATERIAL: ANGULAR CRUSHED STONE OR ROCK, DENSE OR OPEN GRADED WITH LITTLE OR NO FINES (1/4 INCH TO 1 1/2 INCHES IN SIZE).
 2. CLASS II MATERIAL: (GW, GP, SW, SP, GW-CG, SP-SM) CLEAN, COARSE GRAINED MATERIALS, SUCH AS GRAVEL, COARSE SANDS AND GRAVEL/SAND MIXTURES (1 1/2 INCHES MAXIMUM SIZE). (AASHTO CLASSIFICATIONS A1 & A3).
 3. A STABLE FOUNDATION MUST BE PROVIDED TO INSURE PROPER LINE AND GRADE IS MAINTAINED.
 4. A STABLE AND UNIFORM BEDDING SHALL BE PROVIDED FOR THE PIPE AND ANY PROTRUDING FEATURES OF ITS JOINTS AND/OR FITTINGS. THE MIDDLE OF THE BEDDING EQUAL TO 1/3 OF THE PIPE O.D. SHALL BE LOOSELY PLACED WITH THE REMAINDER COMPACTED TO A MINIMUM OF 90% STANDARD PROCTOR DENSITY.
 5. HAUNCHING MATERIALS MAY BE CLASS I OR II AND MUST BE PLACED AND COMPACTED IN 8 INCHES MAXIMUM LIFTS, COMPACTED TO 90% STANDARD PROCTOR DENSITY. EMBEDMENT MATERIALS SHALL BE WORKED UNDER THE HAUNCHES BY HAND.
 6. INITIAL BACKFILL MATERIAL SHALL BE CLASS I OR II, HOWEVER:
 CLASS I MATERIAL MUST BE USED IN WET TRENCHES IF CLASS I BEDDING AND HAUNCHING MATERIALS ARE USED.
 CLASS II MATERIALS MUST BE COMPACTED IN 6 INCHES LIFTS TO 90% STANDARD PROCTOR DENSITY.
 7. THE FINAL BACKFILL SHALL BE THE SAME MATERIAL AS THE EMBANKMENT. THE FINAL BACKFILL SHALL BE PLACED IN 12 INCHES MAXIMUM LIFTS AND COMPACTED TO A MINIMUM 85% STANDARD PROCTOR DENSITY. COMPACTION SHALL BE PERFORMED AT OPTIMUM MOISTURE CONTENT.

MAINTENANCE:
 1. FIELD SYSTEM IS PRONE TO FAILURE DUE TO CLOGGING. THE USE OF PRETREATMENT BMPs WILL MINIMIZE FAILURE AND MAINTENANCE REQUIREMENTS. AGGRESSIVE MAINTENANCE PLANS AND SCHEDULE SHOULD ALSO HELP TO PRESERVE THE EFFECTIVENESS OF THE SYSTEM.
 2. PRETREATMENT BMPs (CATCH BASINS, AREA DRAINS, DRAIN MAHOLES) SHOULD BE INSPECTED AND CLEANED AT A MINIMUM DURING THE REGULAR BI-ANNUAL CHECKS, AND MORE FREQUENTLY IF POSSIBLE. WATERCOURSE SWALE SHOULD BE CLEARED OF ACCUMULATED SEDIMENT, MOWED, AND THEN GRASS CLIPPINGS, LEAVES, AND TRASH SHOULD BE REMOVED.
 3. AFTER CONSTRUCTION, FIELD SHOULD BE INSPECTED AFTER EVERY MAJOR STORM FOR THE FIRST SEVERAL MONTHS TO ENSURE PROPER STABILIZATION AND FUNCTION. THEREAFTER, THE FIELD SHOULD BE INSPECTED AT LEAST TWICE PER YEAR. WATER LEVELS IN THE OBSERVATION WELL (4" CLEAN OUT PORT) SHOULD BE RECORDED OVER SEVERAL DAYS TO CHECK FIELD DRAINAGE.
 4. PONDING WATER INSIDE THE TRENCH (AS VISIBLE FROM THE CLEAN OUT PORT) AFTER 24 HOURS OR SEVERAL DAYS MOST LIKELY INDICATES THAT THE BOTTOM OF THE FIELD IS CLOGGED.
 5. WATER PONDING AT THE SURFACE OF THE FIELD MAY INDICATE ONLY SURFACE CLOGGING. FOR SURFACE CLOGGING, THE TOPSOIL OR FIRST LAYER OF STONE AGGREGATE AND THE FILTER FABRIC MUST BE REMOVED AND REPLACED.
 6. PONDING WATER IN TRENCH INDICATES FAILURE FROM THE BOTTOM. IN THIS CASE, ALL OF THE STONE AGGREGATE AND FILTER FABRIC OR MEDIA MUST BE REMOVED AND REPLACED. ACCUMULATED SEDIMENT SHOULD BE REMOVED FROM THE FIELD BOTTOM.

BULLETIN #2	03-10-03	
ISSUED FOR CONSTRUCTION	11-26-02	
ADDENDUM #2	10-21-02	
ISSUED FOR CONSTRUCTION	09-30-02	
No.	Description	Date



Project Title:
ADDISON ARTS & EVENTS DISTRICT
 ADDISON, TEXAS

Drawing Title:
SITE DETAILS DRAINAGE

Project No. 14516.00 Scale: AS NOTED
 Drawn By: SJM
 Checked By: TC
 Approved By: SEH
 Date: September 30, 2002

Drawing No. **C8-8**