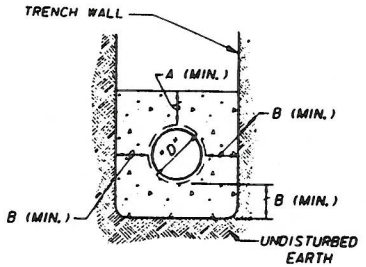
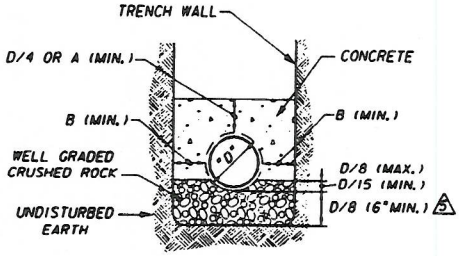


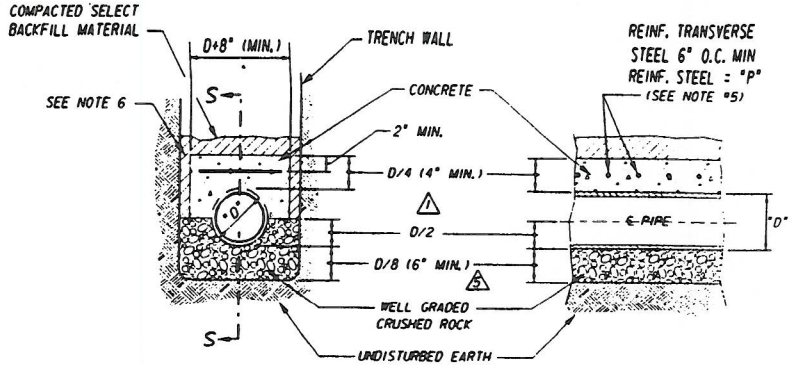
CONCRETE ENCASEMENT NO.1

PIPE I.D.	DIMENSIONS "A"	"B"
6"	5"	6"
8"	5"	6"
10"	5"	6"
12"	5"	6"
15"	5"	6"
18"	5"	6"
21"	6"	6"
24"	6"	6"
27"	7"	7"
30"	8"	8"
33"	9"	9"
36"	9"	9"
39"	10"	10"
42"	11"	11"



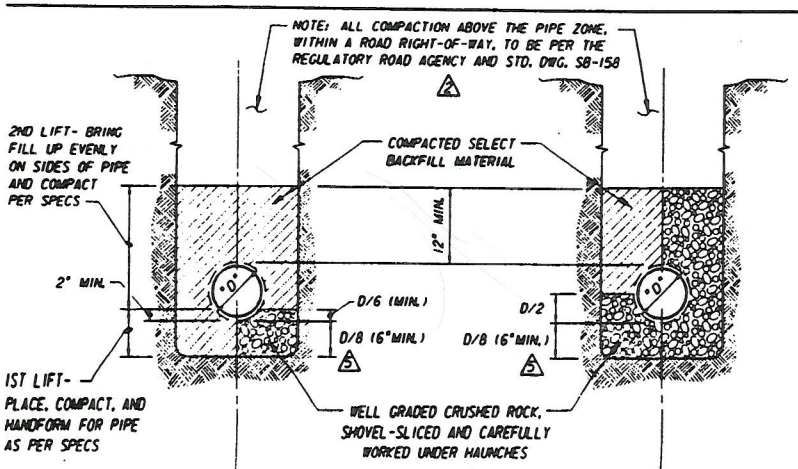
CONCRETE ENCASEMENT NO.2

NOTE: USE CONCRETE ENCASEMENT NO.2 UNLESS OTHERWISE INSTRUCTED BY THE ENGINEER, OR AS SHOWN ON THE CONTRACT DRAWINGS.



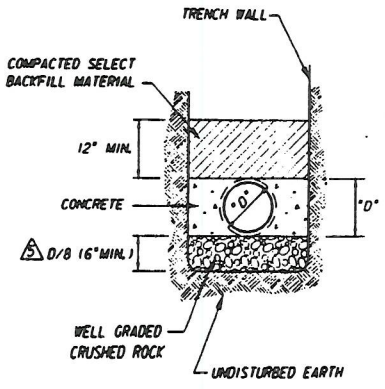
CLASS "AA"
REINFORCED CONCRETE ARCH

SECTION S-S



CLASS "D" | CLASS "C"
SELECT NATIVE MATERIAL | CRUSHED ROCK PAD

CLASS "B" | CLASS "BB"
CRUSHED ROCK BED | CRUSHED ROCK ENVELOPE



CLASS "A" 4
SIDE CRADLING

NOTES

1. CONCRETE ENCASEMENT AND ARCHES SHALL BE INSTALLED AS REQUIRED BY THE SPECIFICATIONS OR AS DIRECTED BY THE ENGINEER.
2. ALL CONCRETE SHALL BE CLASS "A" CONCRETE.
3. ALL CRUSHED ROCK SHALL MEET THE REQUIREMENTS OF ASTM C33, SIZE NO. 67.
4. TWO APPROVED FLEXIBLE JOINTS SHALL BE USED AT EACH END OF SEWER PIPE ENCASEMENTS PERSUANT TO STD. DWG. SB-63.
5. "P" = RATIO OF AREA OF STEEL TO AREA OF CONCRETE PER LINEAL FOOT (D/4 x 12" OR MIN. 4" x 12"= CONCRETE AREA). "P" SHALL BE AT A MIN. 0.4%, FOR CLASS "AA" BEDDING.
6. CONCRETE CAN BE POURED AGAINST TRENCH WALL OR MAY BE FORMED.
7. CONSOLIDATING BACKFILL MATERIAL BY WATER FLOODING NOT PERMITTED IN CLAY SOILS.

CRUSHED ROCK SIEVE ANALYSIS PER ASTM C33, SIZE NO. 67	
100% PASSING	1"
90-100% PASSING	3/4"
20-55% PASSING	3/8"
0-10% PASSING	#4
0-5% PASSING	#8

NOTE: REFER TO STD. DWG SB-159 FOR BEDDING CLASSIFICATION

REVISIONS				
NO.	DATE	INITIAL	DESCRIPTION	APP'D	DATE
1	7/15/93	CFW	REVISED MIN. COVER OVER PIPE (CLASS AA)	VJS	7/22/93
2	1/31/95	KER	REVISED CALLOUT FOR TRENCH BACKFILL	VJS	1/31/95
3	2/19/97	KER	REDRAWN TO INCLUDE ALL PREVIOUS REVISIONS	VJS	2/28/97
4	11/4/98	KER	CLARIFY CLASS "A" CONCRETE SIDE CRADLING	VJS	11/4/98
5	6/4/99	KER	REVISE ROCK THICKNESS UNDER PIPE TO 6"	CB	6/4/99

APPROVALS	INITIAL	DATE
DESIGN		
CONSTRUCTION		
INSPECTION		
OPERATIONS		
SUBMITTED	VJS	3/1/93

EASTERN MUNICIPAL WATER DISTRICT

EASTERN MUNICIPAL WATER DISTRICT

EASTERN MUNICIPAL WATER DISTRICT
STANDARD DRAWING

PIPE ZONE BEDDING FOR SEWER PIPE

REFERENCES: SUPERCEDES SB-76
FILE I.D.: d_standards/sb157.dgn

SCALE: NONE
DRAWN BY KER

RECOMMENDED Joseph D. Van Sickle 3/5/93
DIRECTOR OF ENGINEERING DATE

APPROVED William E. Plummer 3/8/93
CHIEF ENGINEER DATE

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