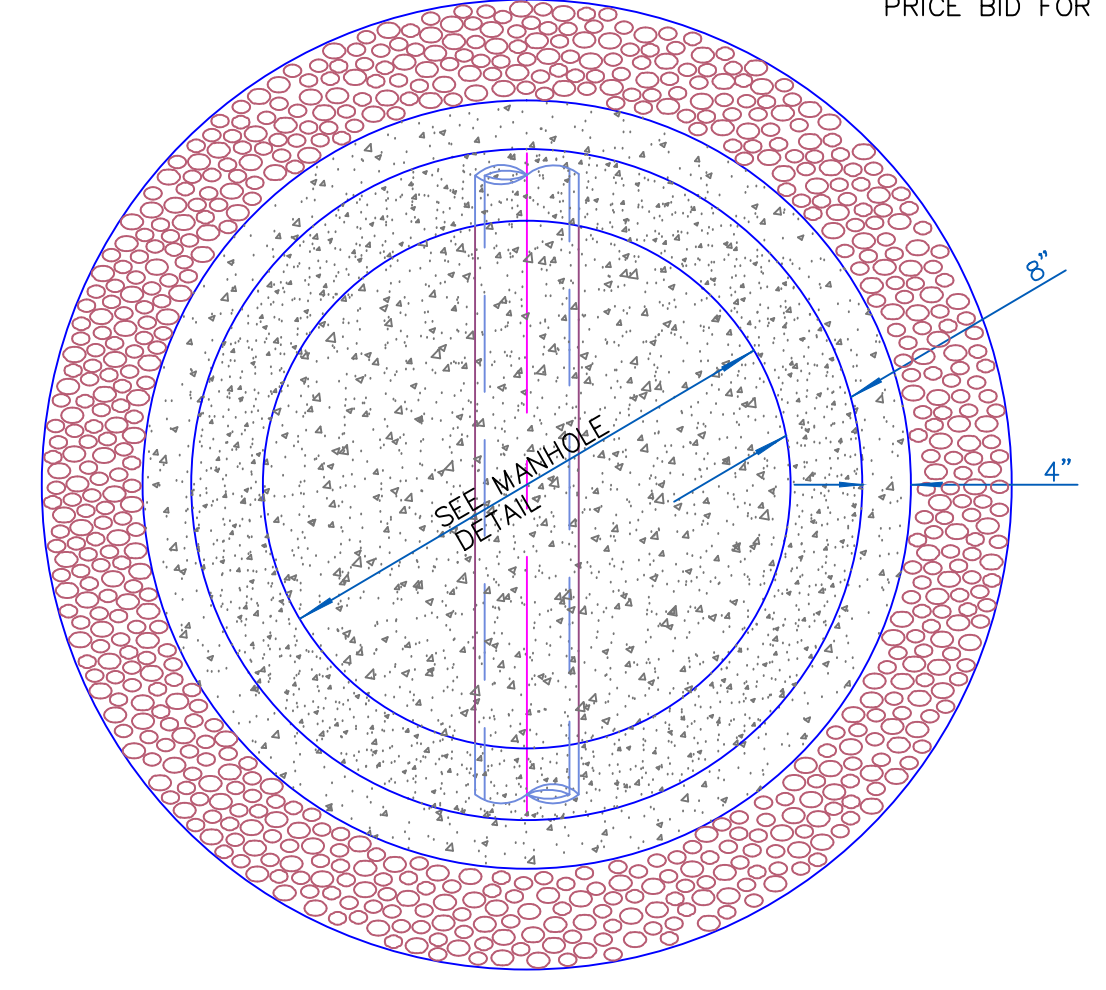
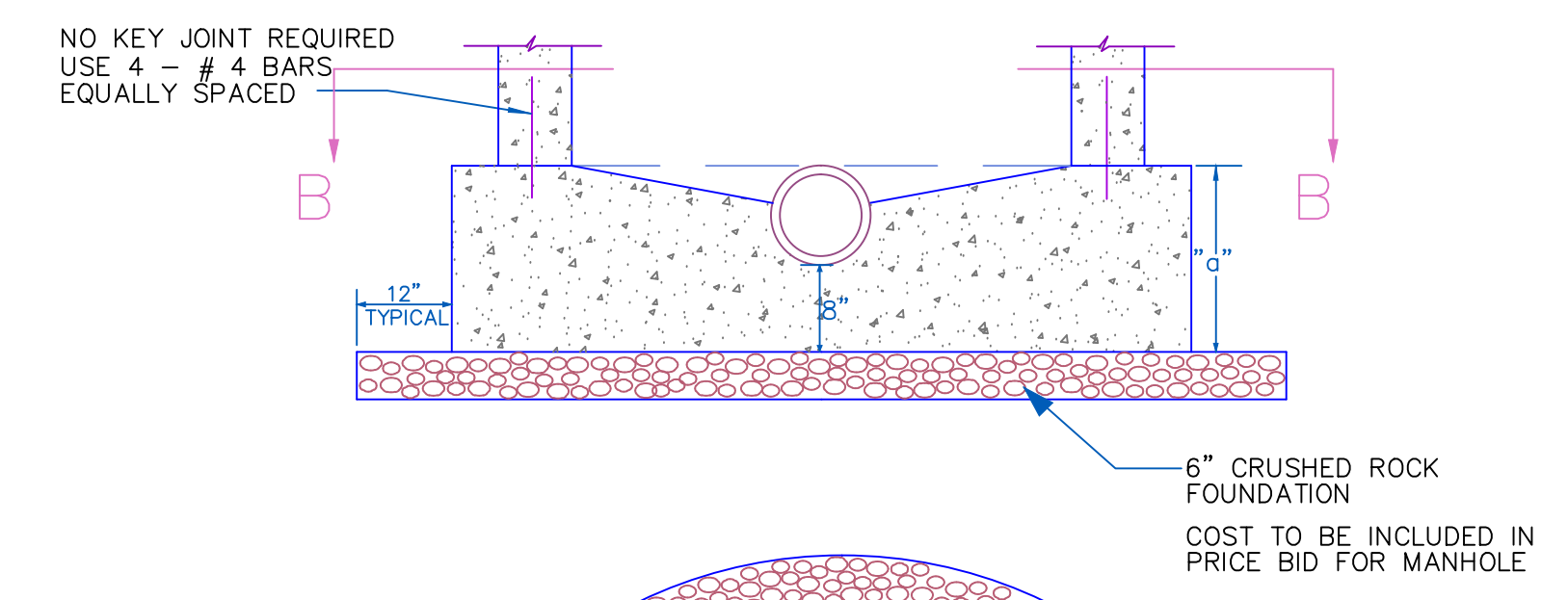


SECTION A - A  
MANHOLE DETAIL



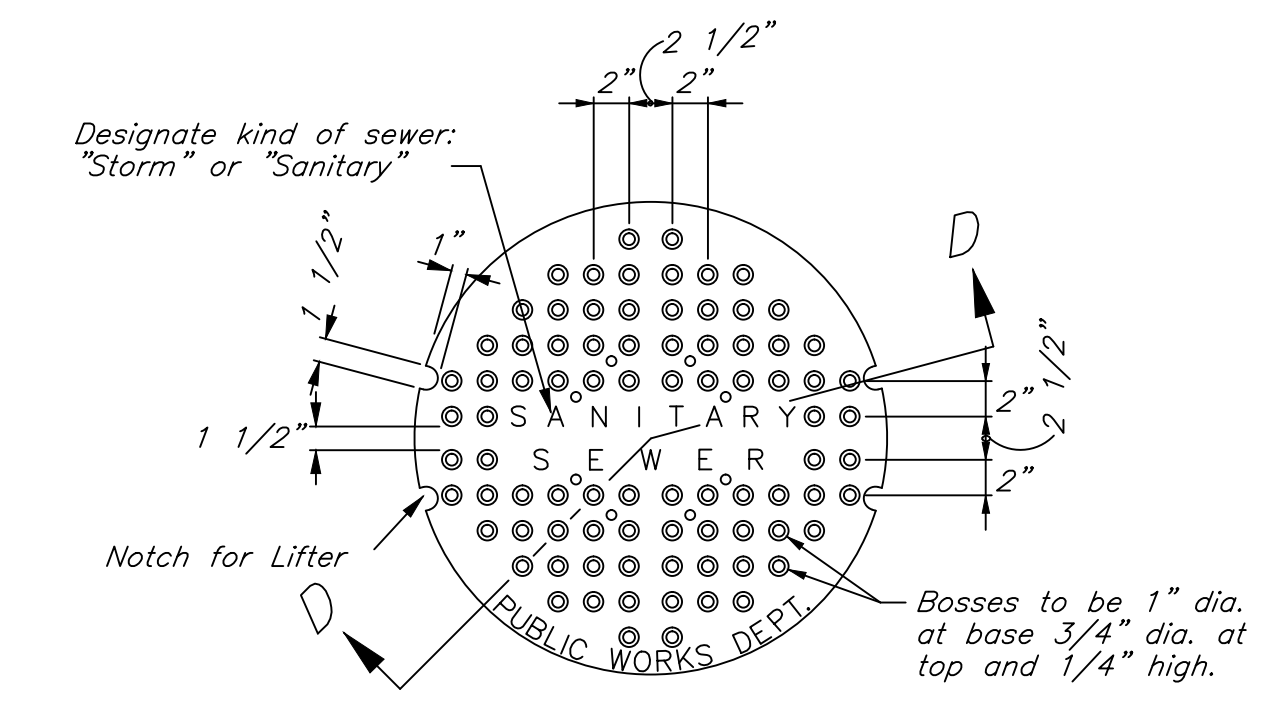
SECTION B-B  
STANDARD DETAIL FOR MANHOLE BASE SECTION

SCHEDULE OF THICKNESS

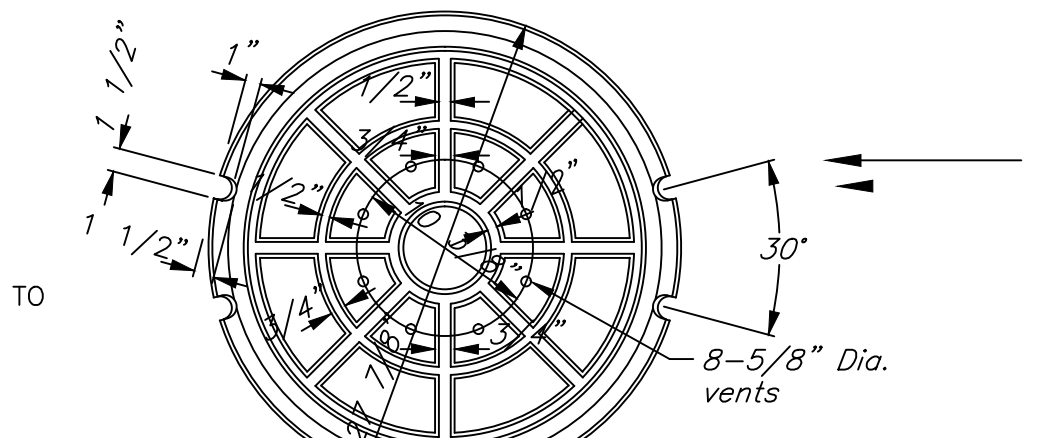
Pipe Dia.	a
8"	1'-8"
10"	1'-10"
12"	2'-1"
15"	2'-4"
18"	2'-8"
21"	3'-0"
24"	3'-3"

CASING SIZE TABLE

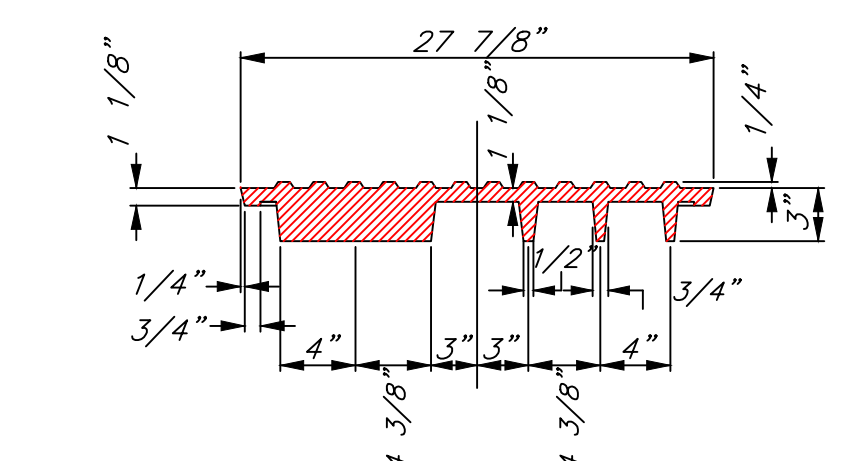
Inside Pipe Dia.	Casing Size Inside Dia.
4"	8"-10"
6"	10"-12"
8"	14"-16"
10"	16"-18"
12"	18"-20"
15"	20"-22"
18"	24"-26"
24"	31"-33"



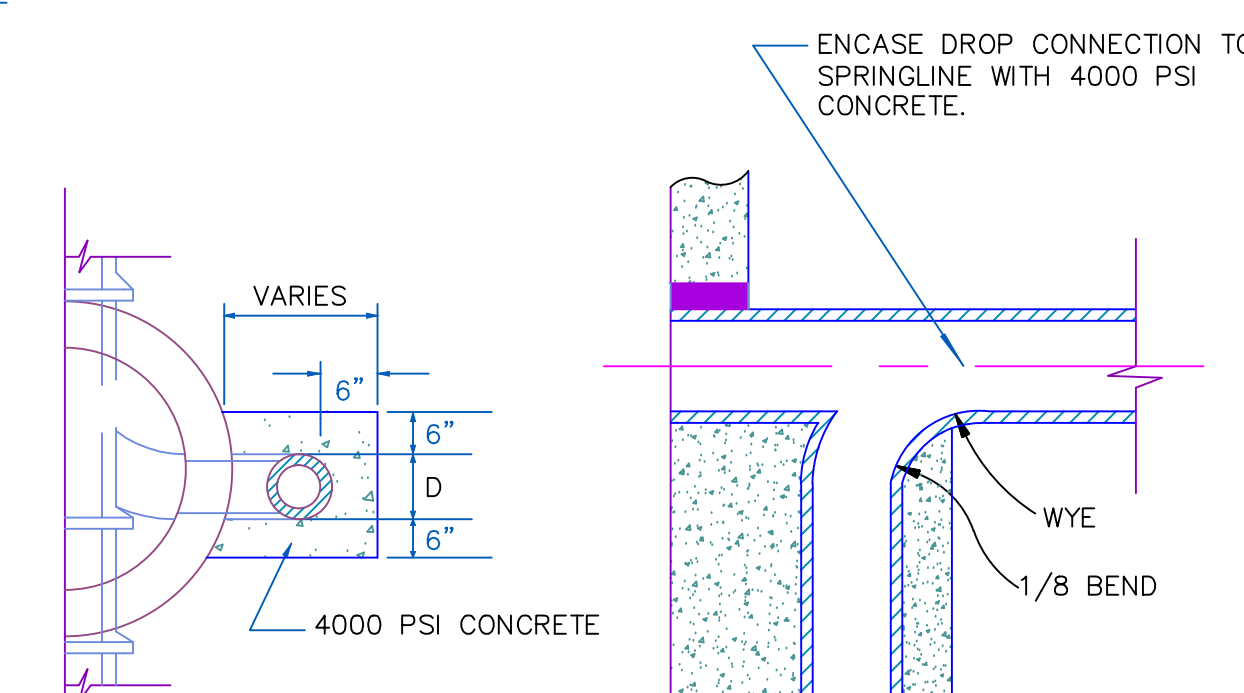
PLAN OF TOP



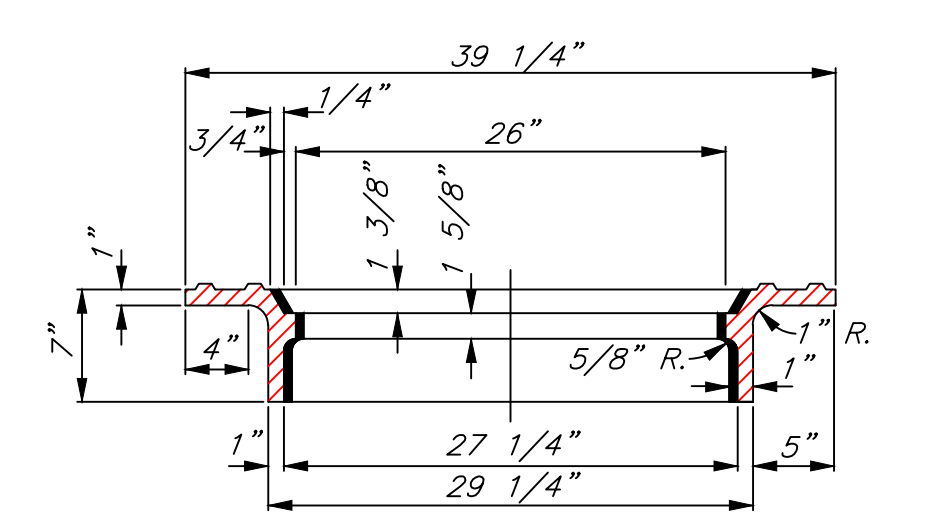
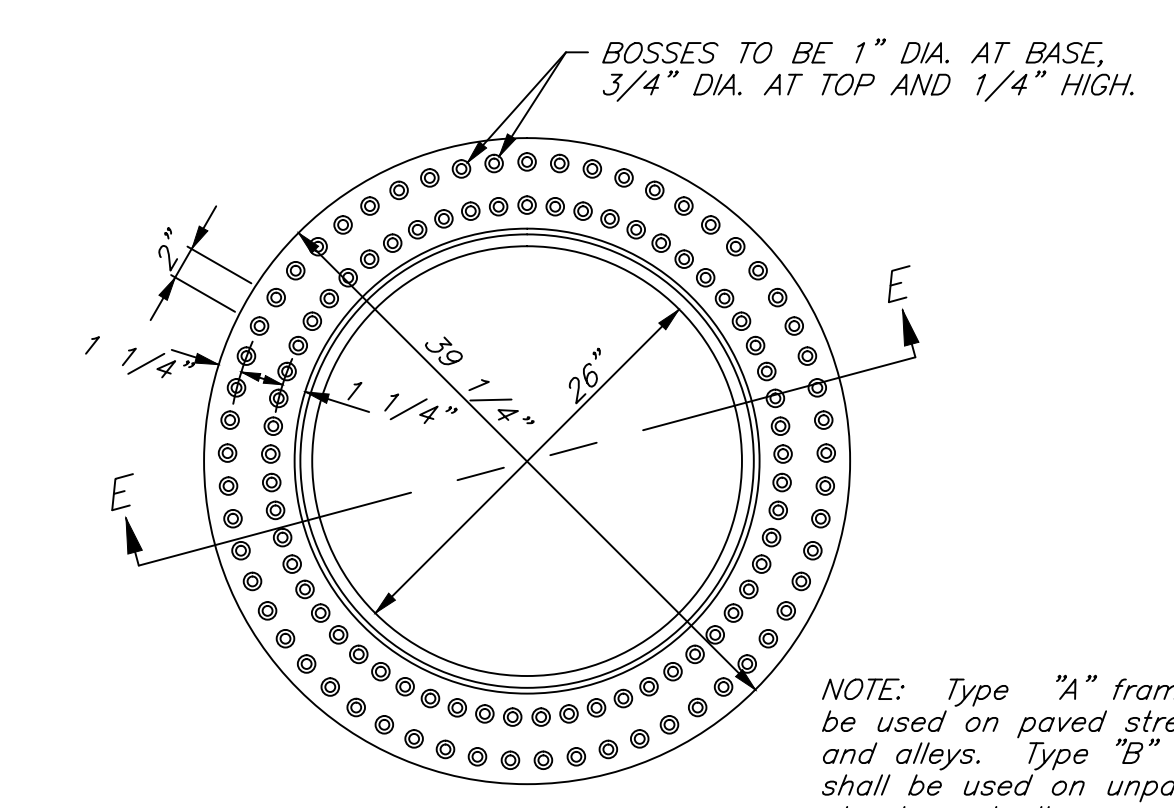
PLAN OF UNDERSIDE



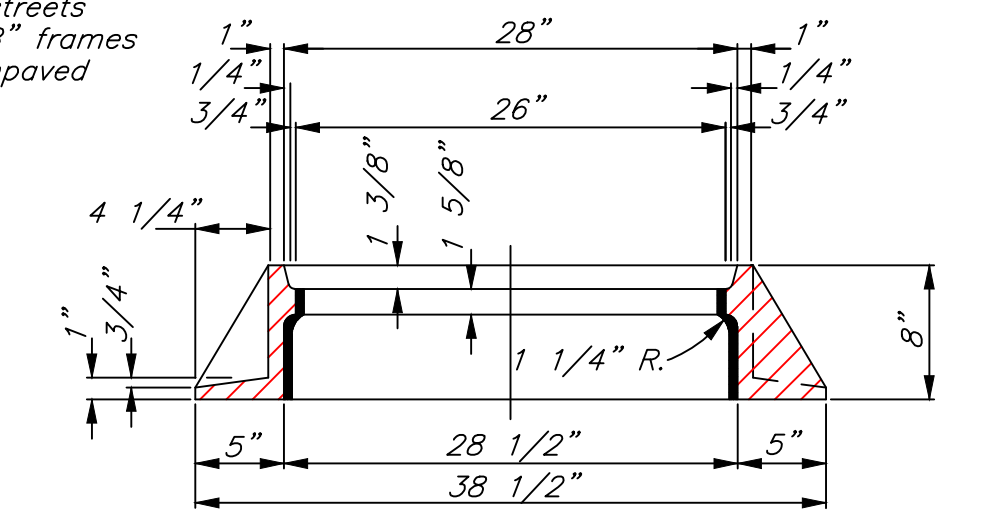
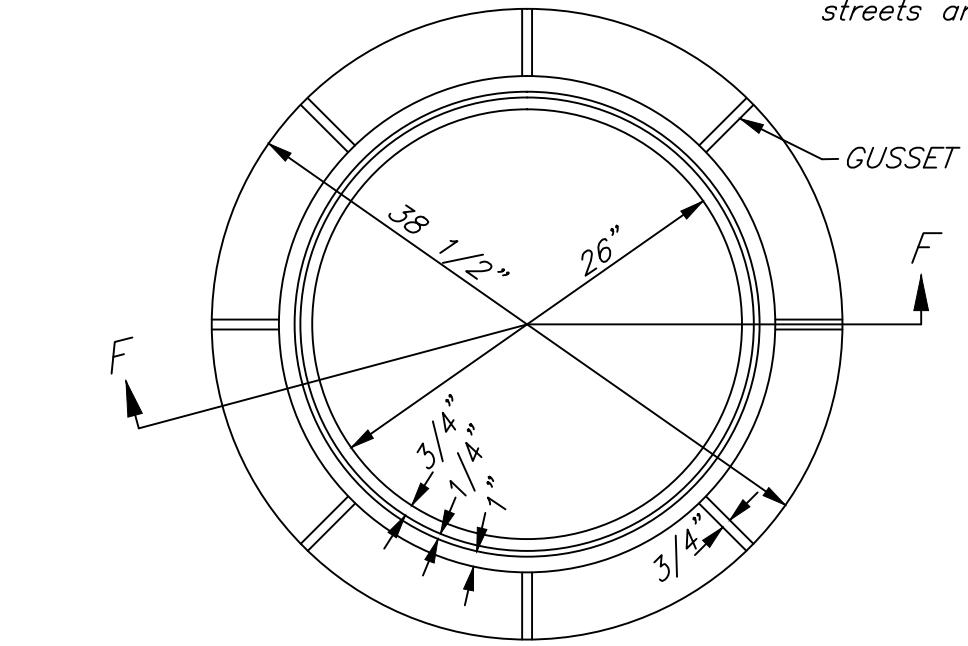
SECTION D-D  
STANDARD COVER



SECTION C-C  
MANHOLE DROP CONNECTION

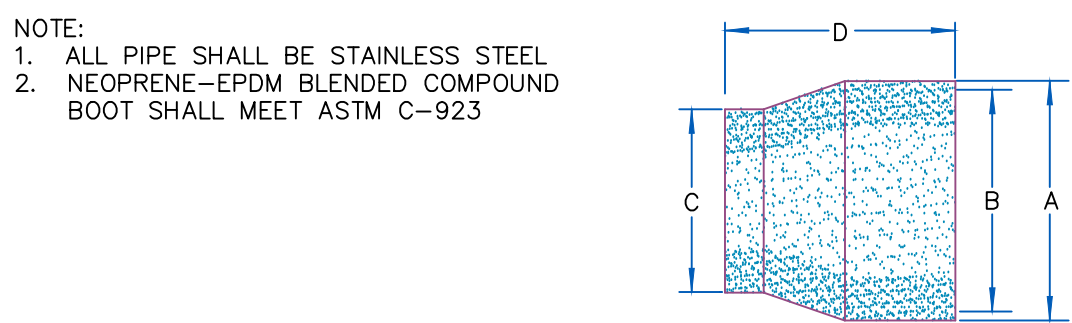


SECTION E-E  
STANDARD FRAME  
TYPE B



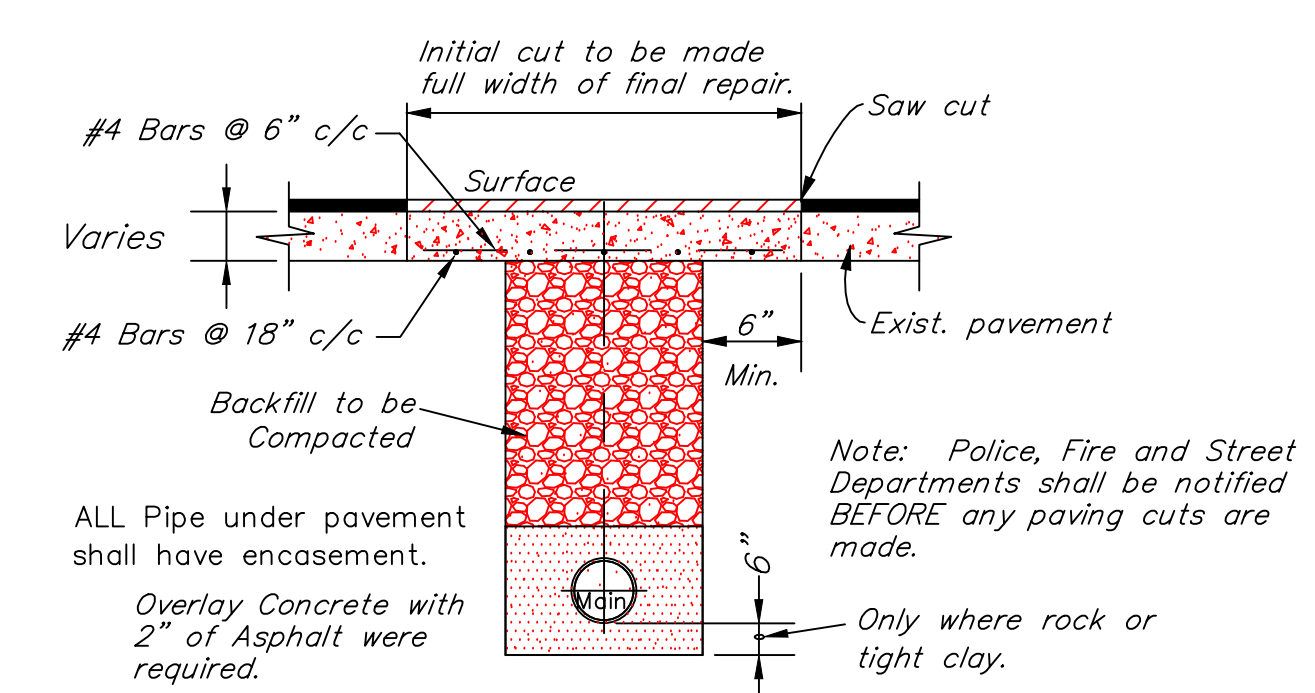
SECTION F-F  
STANDARD FRAME  
TYPE A

STANDARD  
MANHOLE FRAMES



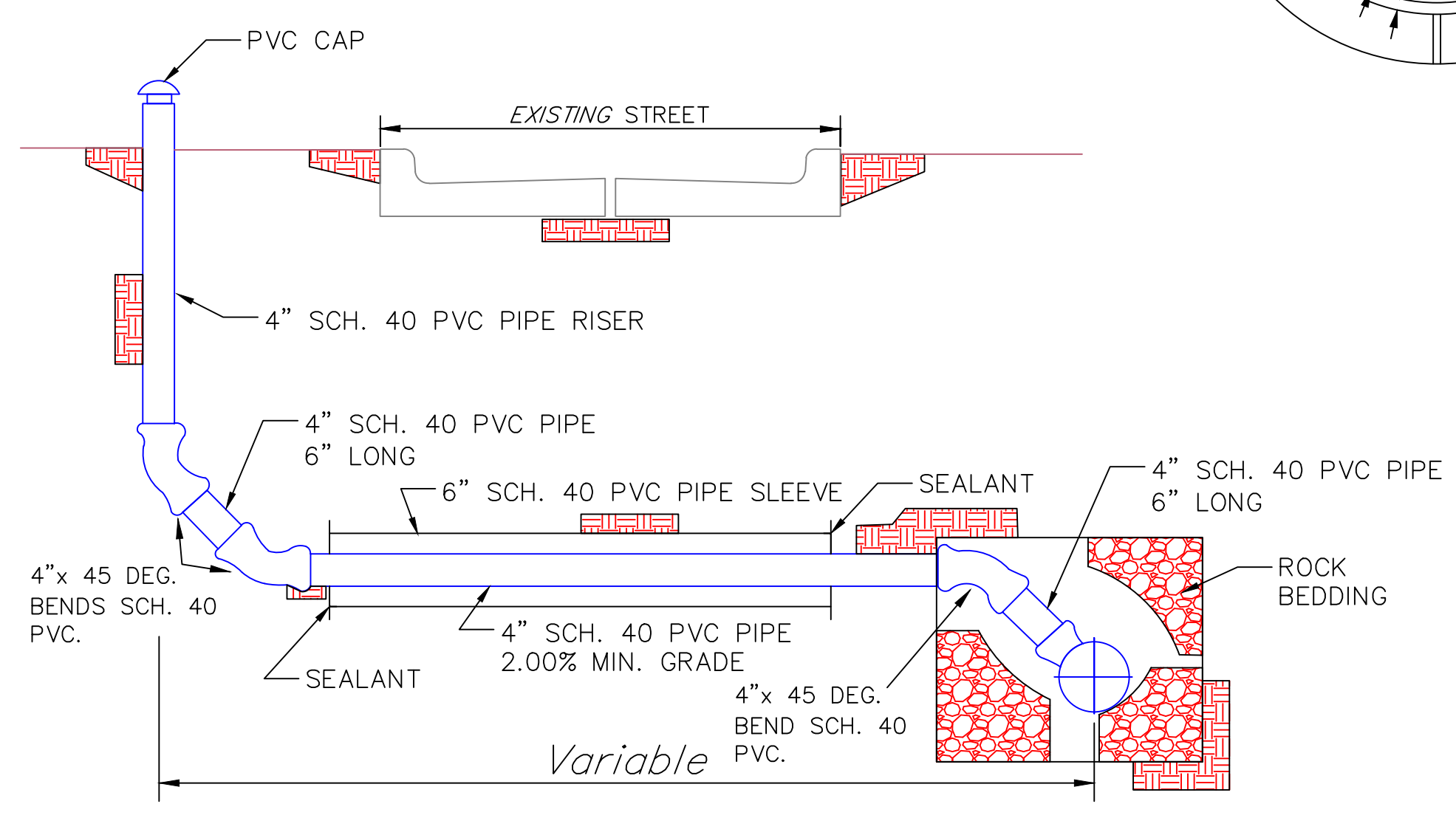
SUGGESTED PIPE O.D. RANGE (IN.)

PIPE O.D. RANGE (IN.)	A	B	C	D
3 1/2" - 4 1/2"	7"	6 1/8"	4 1/4"	6"
5 3/8" - 7"	12"	10 7/8"	6 1/2"	8"
7" - 8 1/2"	12"	10 7/8"	8"	8"
8 3/16" - 9 3/4"	12"	10 7/8"	9 1/4"	8"
9 1/4" - 11"	16"	14 7/8"	10 1/2"	8"
10 3/4" - 12 1/2"	16"	14 7/8"	12"	8"
12" - 13 3/4"	16"	14 7/8"	13 1/4"	8"
14 1/2" - 16 1/4"	20"	18 7/8"	15 3/4"	8"
15 3/4" - 17 1/2"	20"	18 7/8"	17"	8"
19 1/2" - 21 1/4"	24"	22 7/8"	20 3/4"	8"

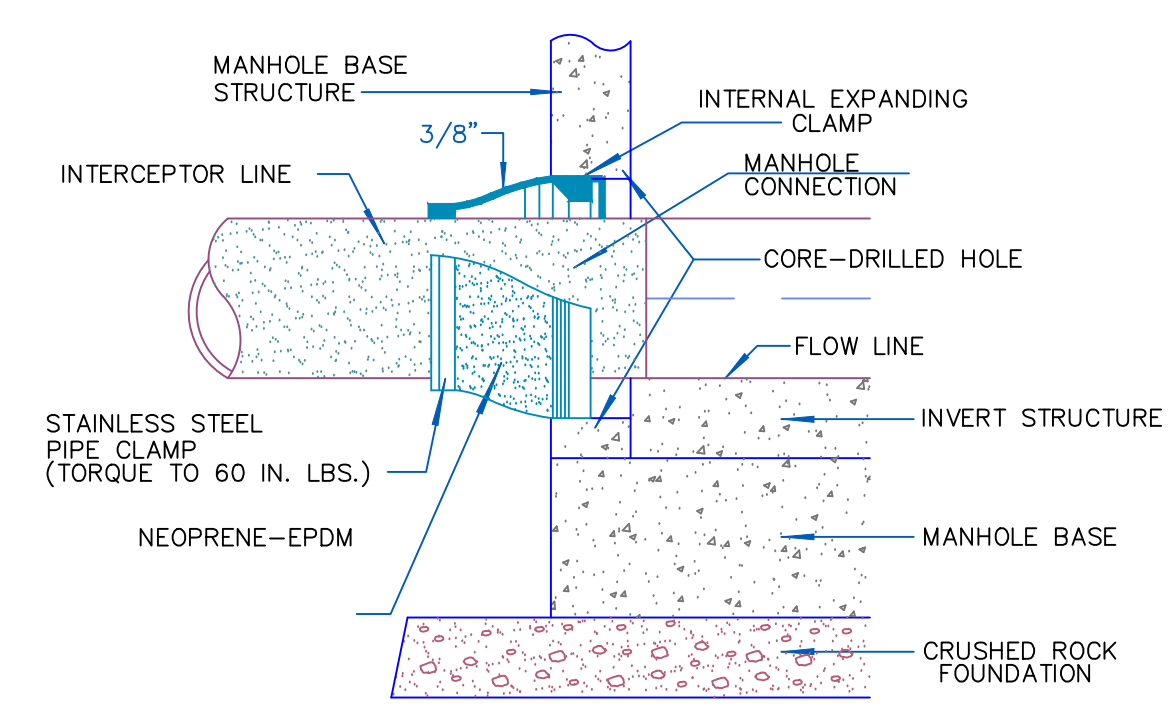


STREET CROSSING

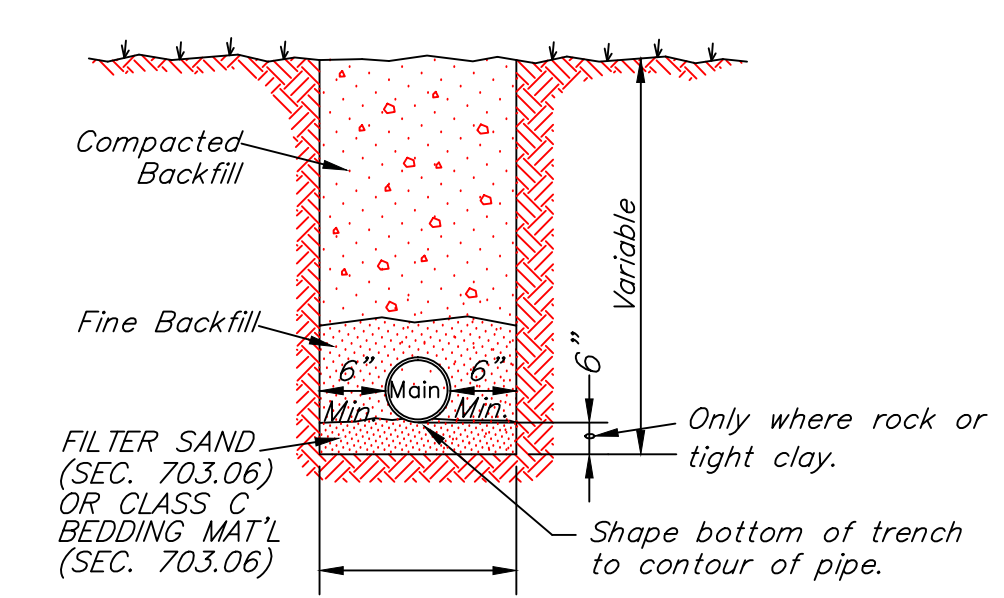
NOTE: BEDDING GRAVEL SHALL BE OF COMPOSED OF CRUSHED ROCK CONFORMING TO STANDARD SPECIFICATIONS, SECTION 703.01, TYPE A OR B.



TYPICAL TRENCH SECTION



MANHOLE-PIPE CONNECTION



TYPICAL TRENCH SECTION

DATE-STAMP