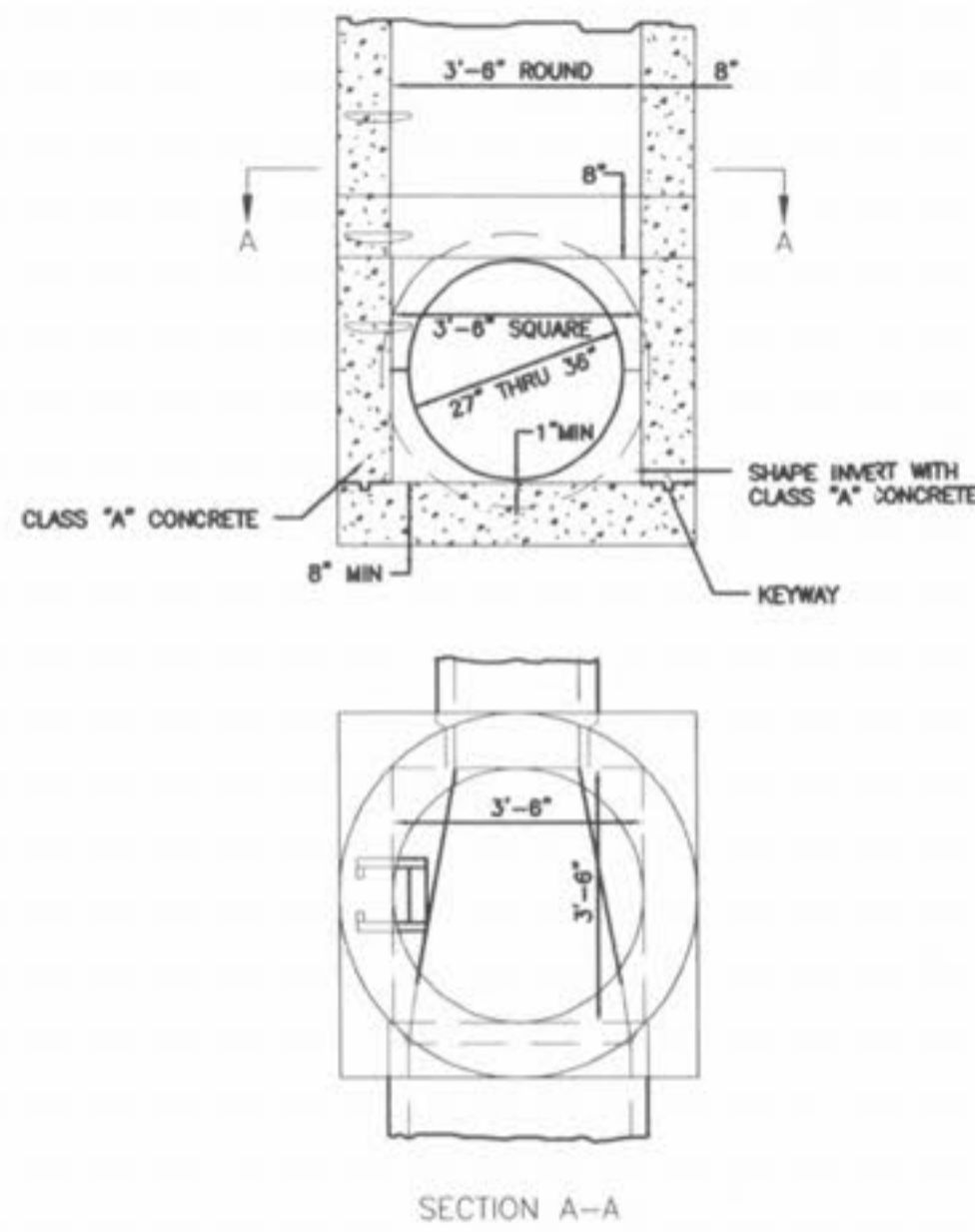
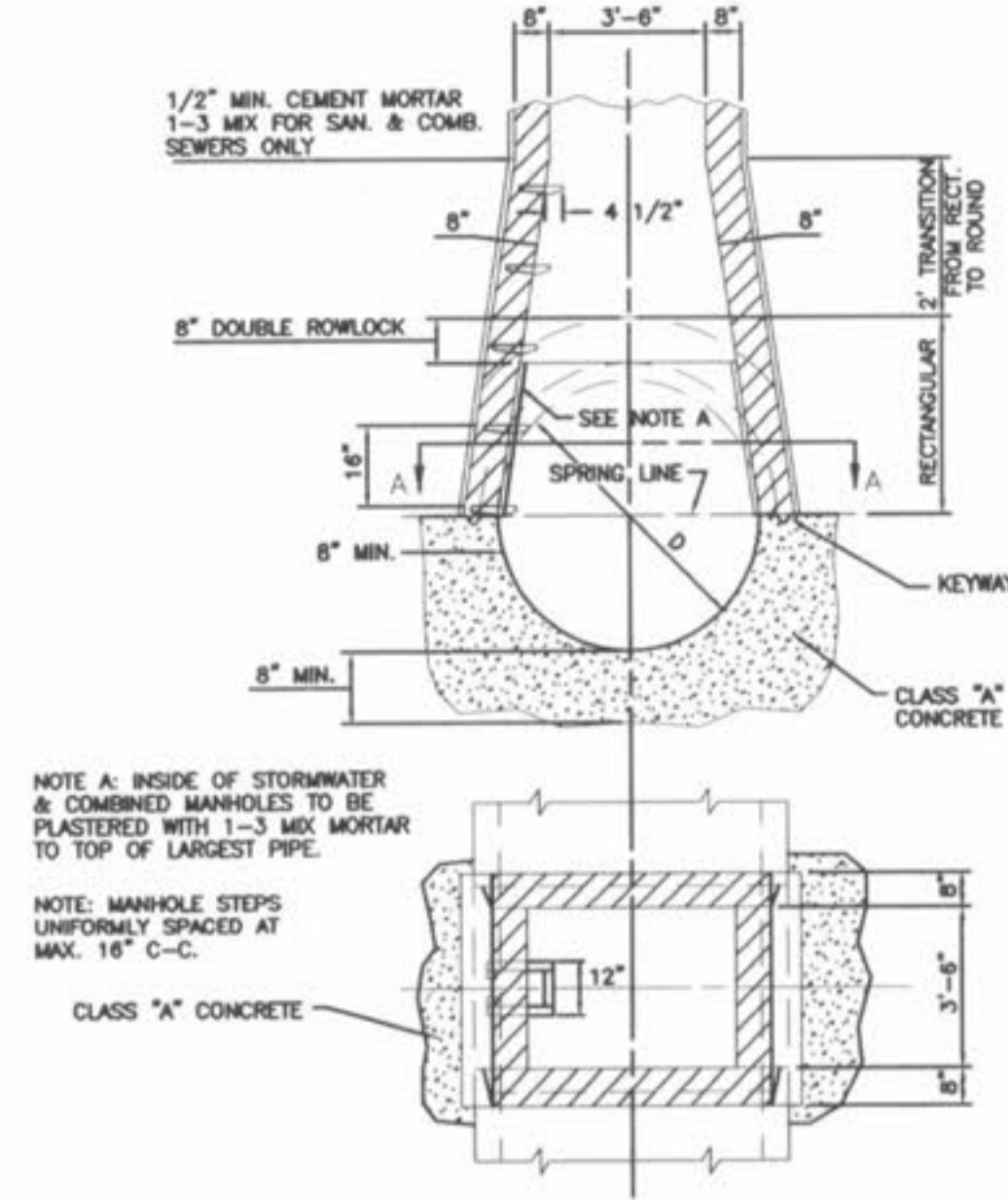


ROUND PIPE				HORIZONTAL ELLIPTICAL PIPE			
Inside Diameter of Pipe (Inches)	"W" Payline Width of Trench (Inches)	"W" Payline Width of Trench (Feet)	Pay-volume cu. ft. per ft. of Concrete Encasement	Inside Diameter of Pipe (Inches)	"W" Payline Width of Trench (Inches)	"W" Payline Width of Trench (Feet)	Pay-volume cu. ft. per ft. of Concrete Encasement
4	28	2.33	3.20				
6	28	2.33	3.48				
8	28	2.33	3.70				
10	28	2.33	3.86				
12	28	2.33	3.98				
15	32	2.67	4.89				
18	35	2.92	5.63	14 X 23	41	3.42	5.94
21	39	3.25	6.61				
24	42	3.50	7.39	19 X 30	49	4.08	7.68
27	45	3.75	8.18	22 X 34	53	4.42	8.61
30	49	4.08	9.30	24 X 38	58	4.83	9.70
33	53	4.42	10.53	27 X 42	62	5.17	10.71
36	56	4.67	11.43	29 X 45	66	5.50	11.72
39	DISCONTINUED			32 X 49	71	5.92	13.14
42	63	5.25	13.38	34 X 53	75	6.25	14.05
46	70	5.83	15.67	36 X 60	83	6.92	16.18
54	77	6.42	18.15	43 X 68	92	7.67	18.81
60	84	7.00	20.73	48 X 76	101	8.42	21.59
66	91	7.58	23.45	53 X 83	109	9.08	24.35
72	98	8.17	26.37	58 X 91	118	9.83	27.45
78	105	8.75	29.39	63 X 98	126	10.50	30.50
84	112	9.33	32.57	68 X 106	135	11.25	33.91
90	119	9.92	35.90	72 X 113	143	11.92	36.99
96	126	10.50	39.37	77 X 121	152	12.67	40.69
102	133	11.08	42.99	82 X 128	160	13.33	44.45
108	140	11.67	46.75	87 X 136	168	14.00	47.79
114	147	12.25	50.66	92 X 143	176	14.67	51.70
120	154	12.83	54.72	97 X 151	185	15.42	56.01
126	161	13.42	58.92				
132	168	14.00	63.27	106 X 166	202	16.83	64.48
144	182	15.17	72.40	116 X 180	218	18.17	73.59

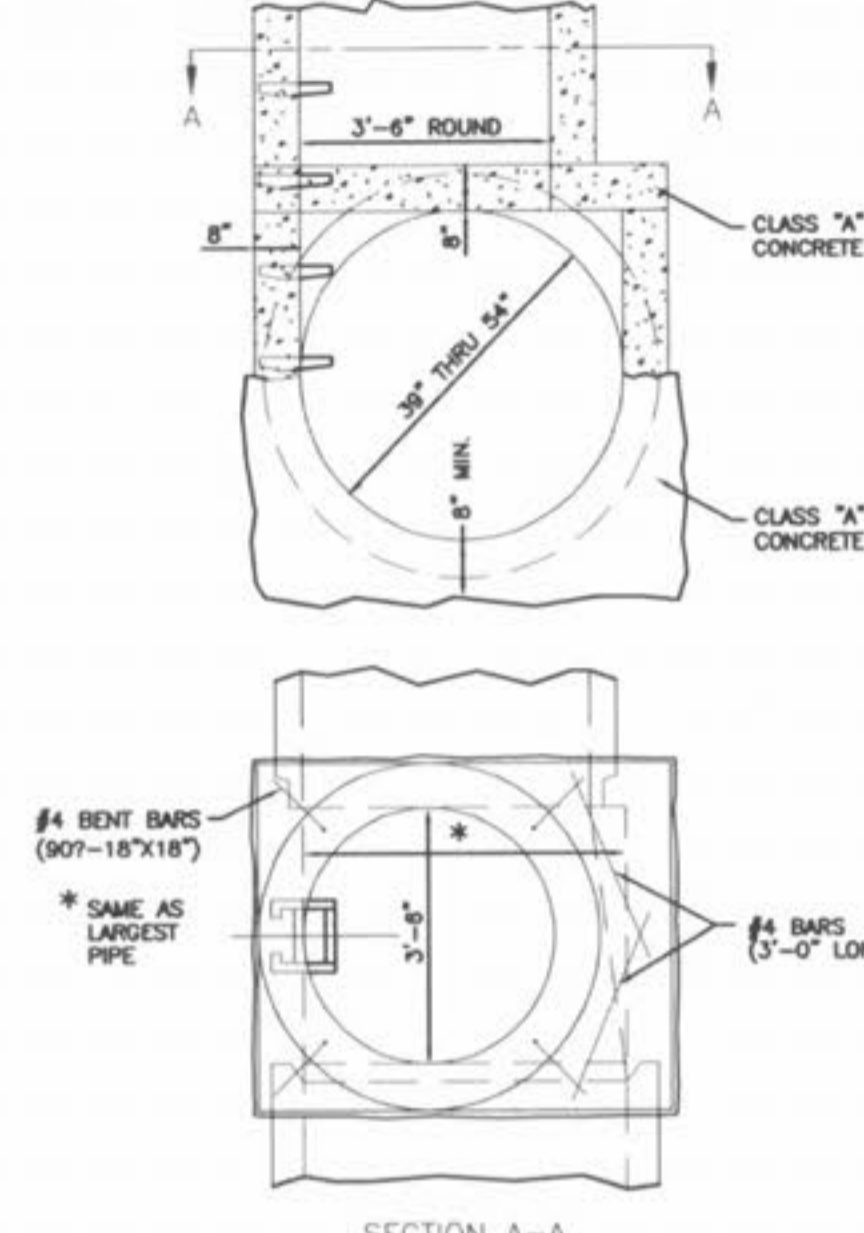
TABLE NO. 1
PAYLINE WIDTHS OF TRENCH AND
PAY-QUANTITIES OF CONCRETE



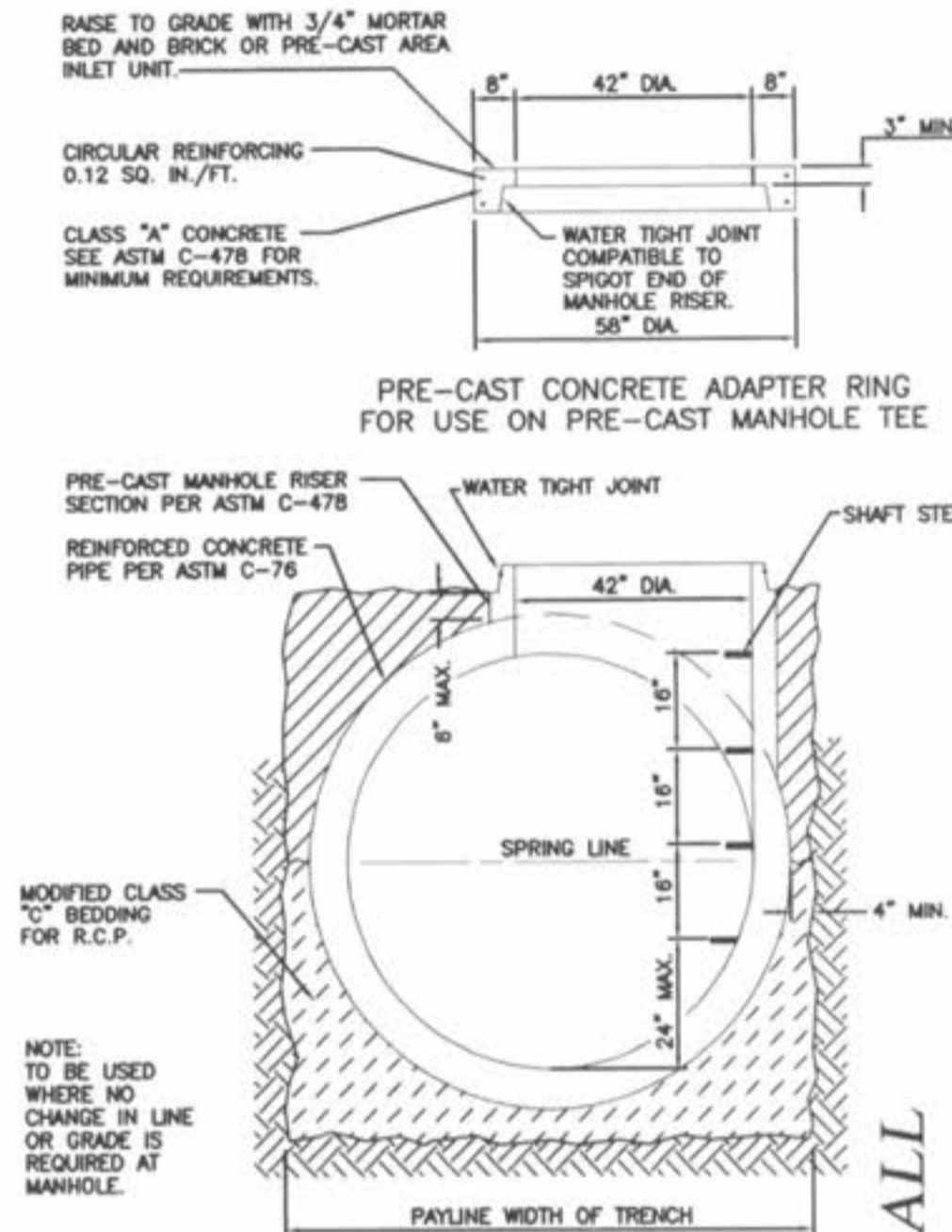
MANHOLE ON PIPE SEWER
27" THRU 36" (ALTERNATE)



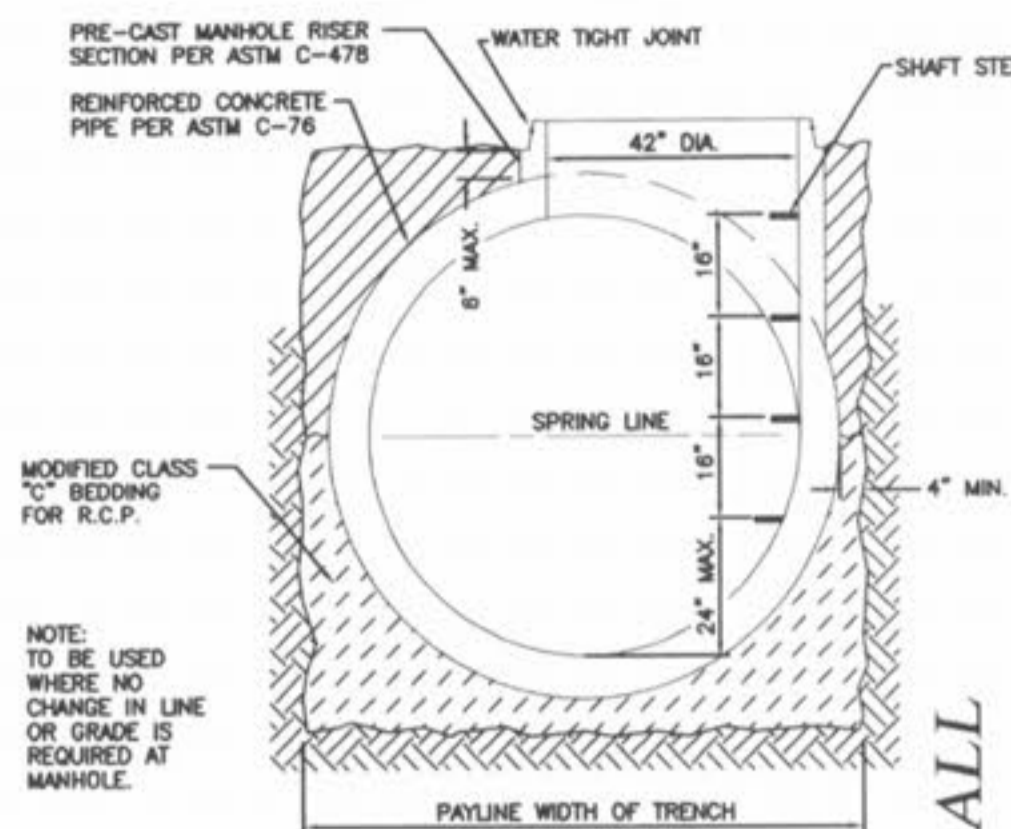
MANHOLE ON CONCRETE PIPE
SEWERS 39" THRU 54" DIAMETER



MANHOLE ON CONCRETE PIPE
39" THRU 54" (ALTERNATE)

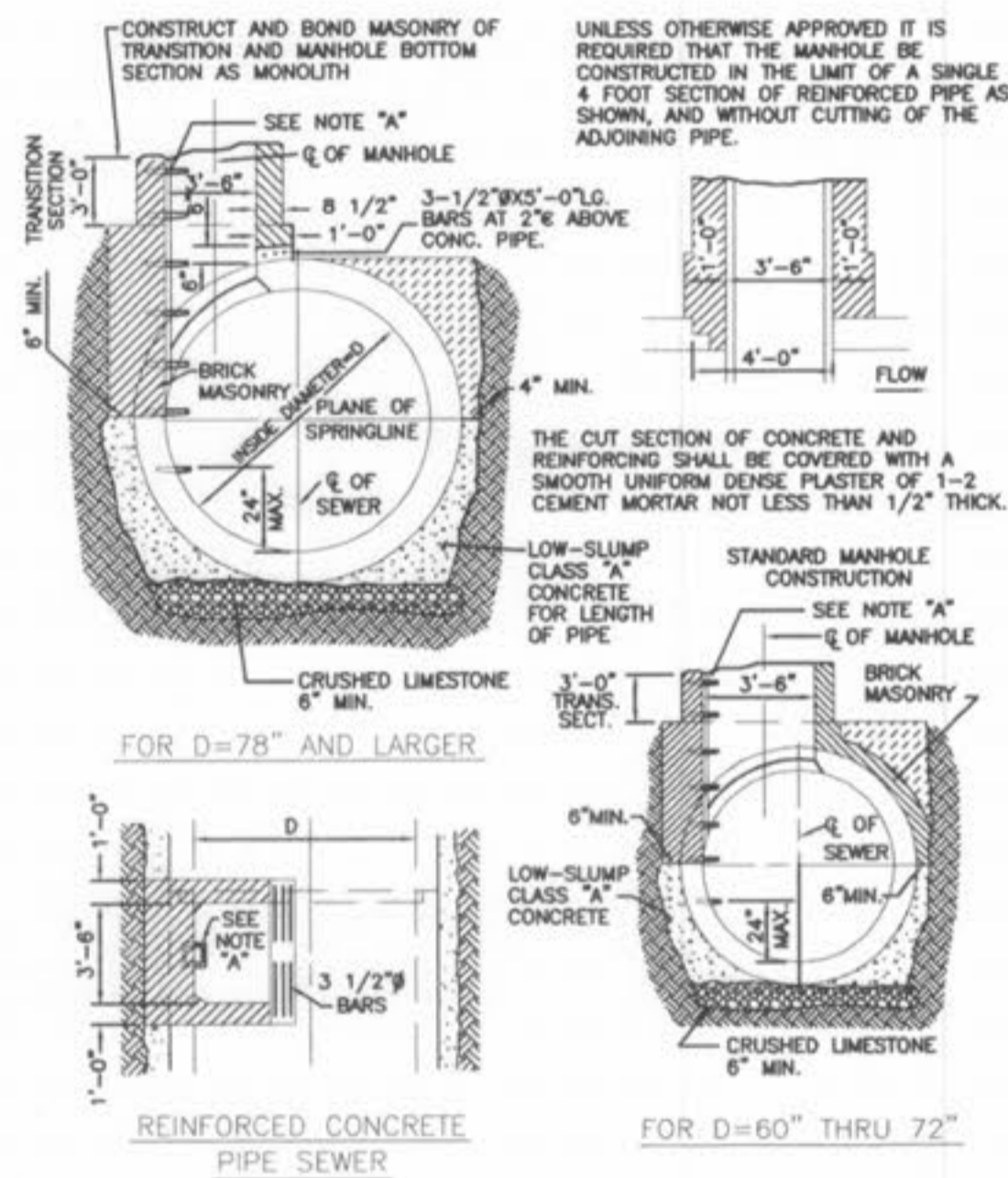


PRE-CAST CONCRETE ADAPTER RING
FOR USE ON PRE-CAST MANHOLE TEE

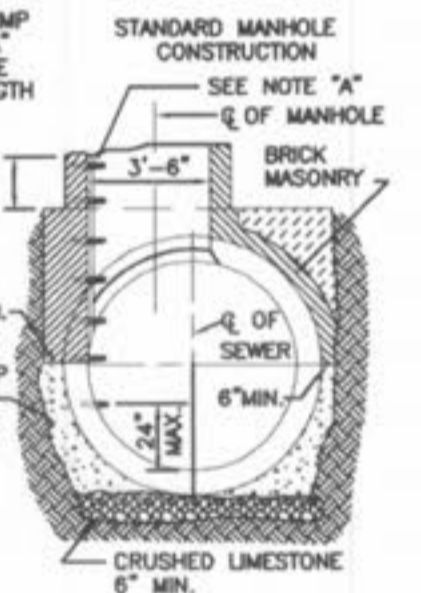


TYPICAL PRE-CAST M.H. TEE
FOR REINFORCED CONCRETE
PIPE SEWERS 48" AND
LARGER IN DIAMETER

NOTE: ADD 5/8" TRASH BAR TO ALL
CURB INLET OPENINGS



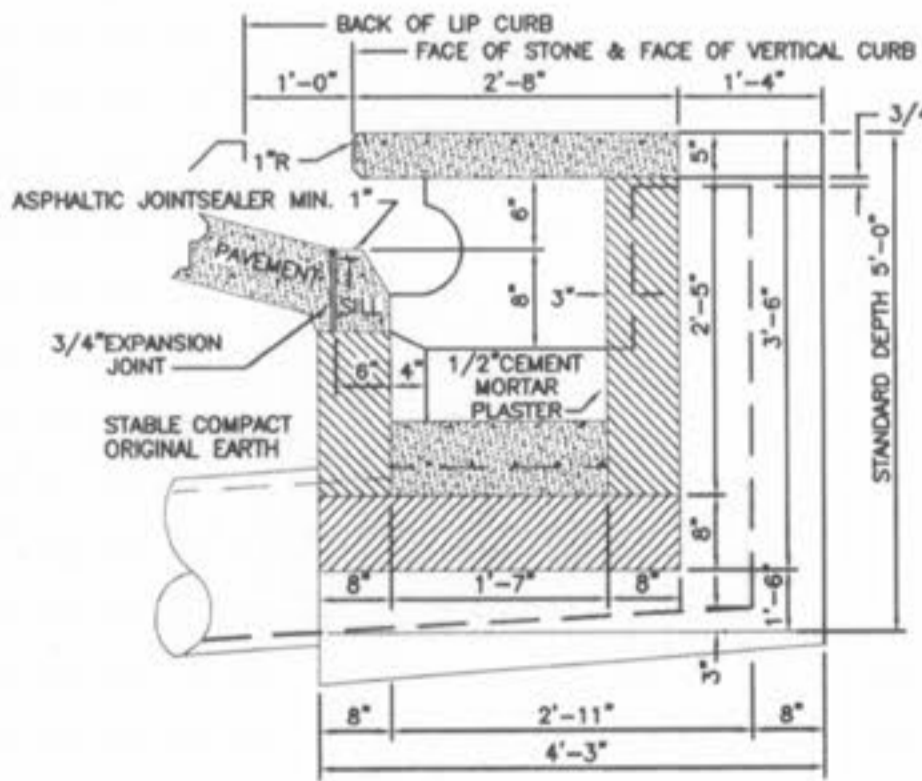
FOR D=78" AND LARGER



FOR D=60" THRU 72"

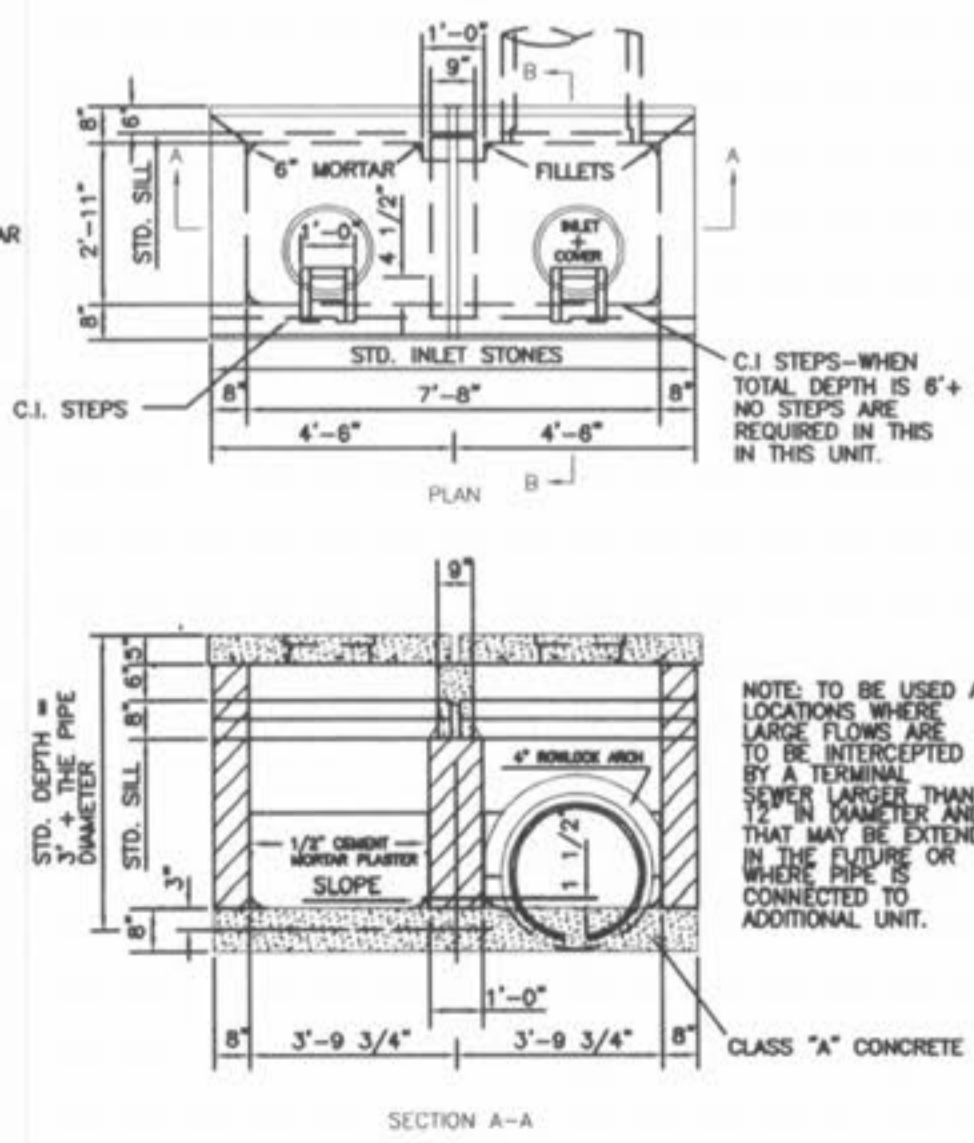
NOTE A: SHAFTS STEPS SHALL BE USED & UNIFORMLY SPACED AT 16" C-C MAX.

TYPICAL MANHOLE BASE
REINFORCED CONCRETE PIPE
SEWERS 60" AND LARGER
IN DIAMETER

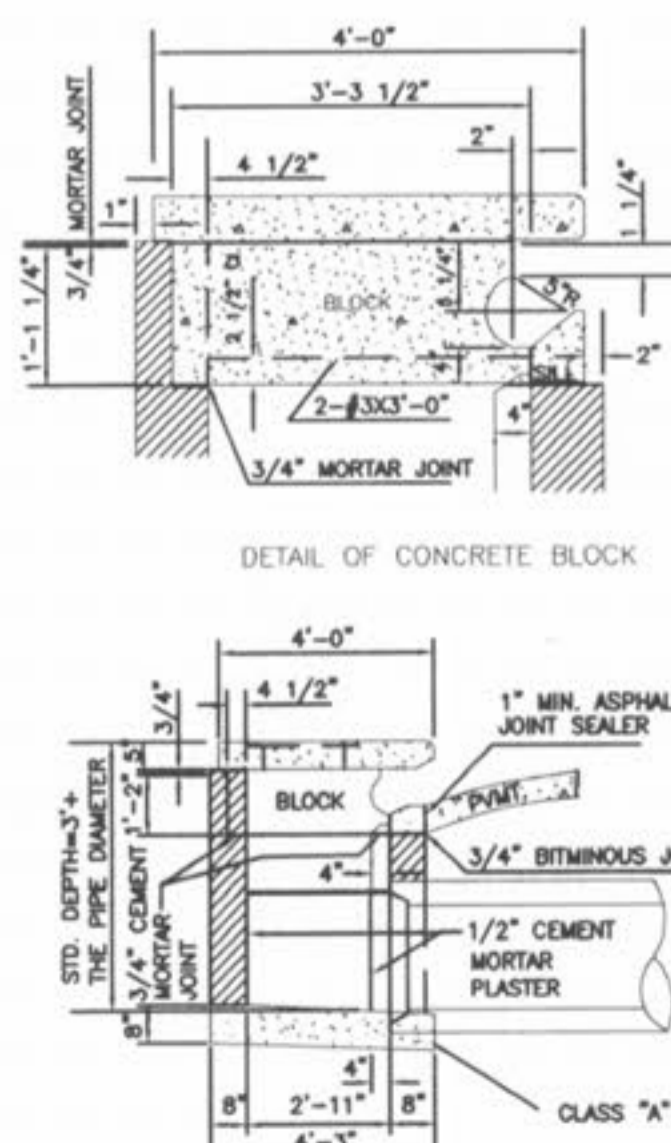


SECTION E-E

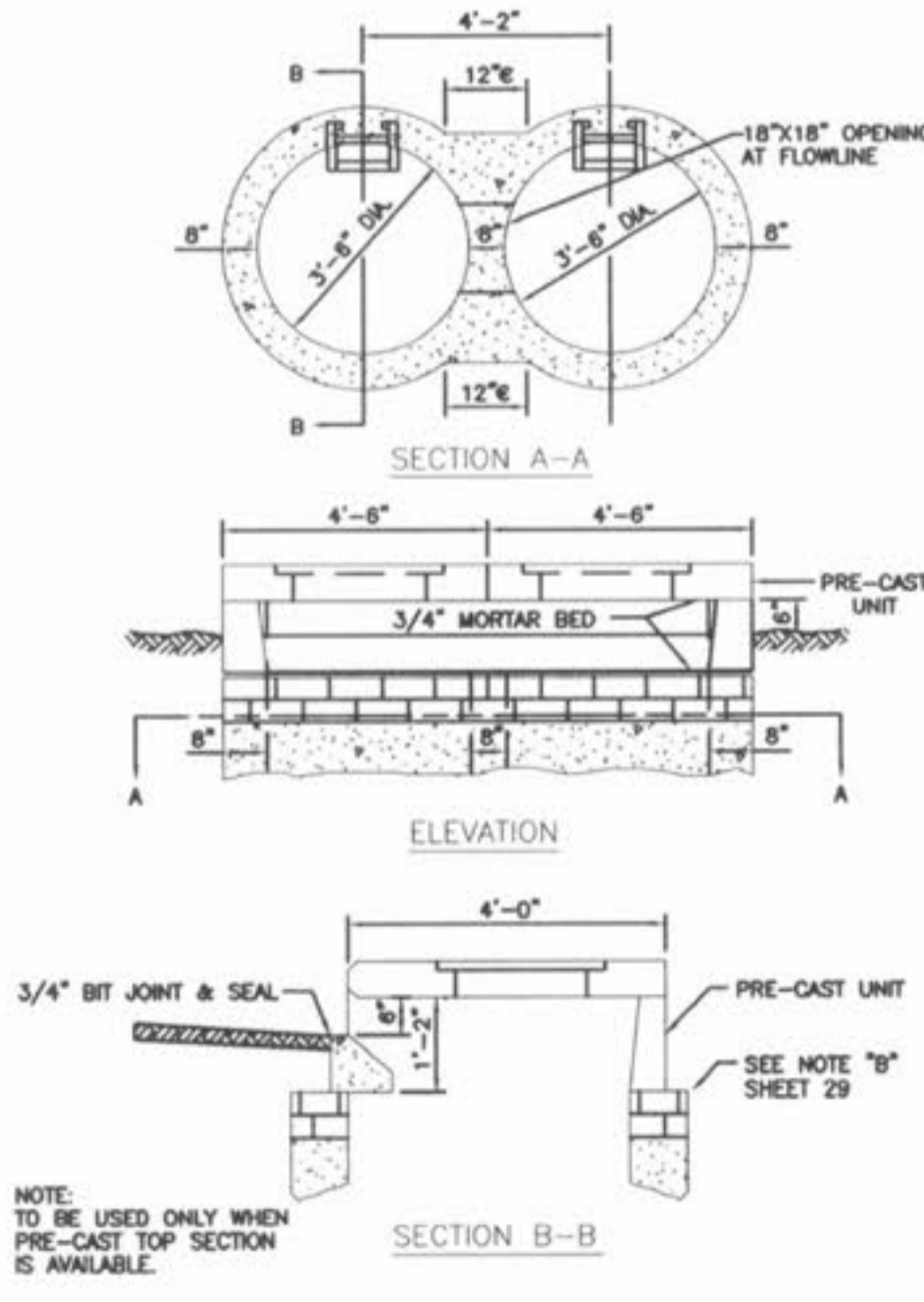
NOTES:
A. MAXIMUM DIAMETER OF DOWN-
STREAM PIPE IS 24"
B. CONSTRUCT ADDITIONAL UNITS ON
UNDISTURBED EARTH OR COMPACTED
CRUSHED LIMESTONE



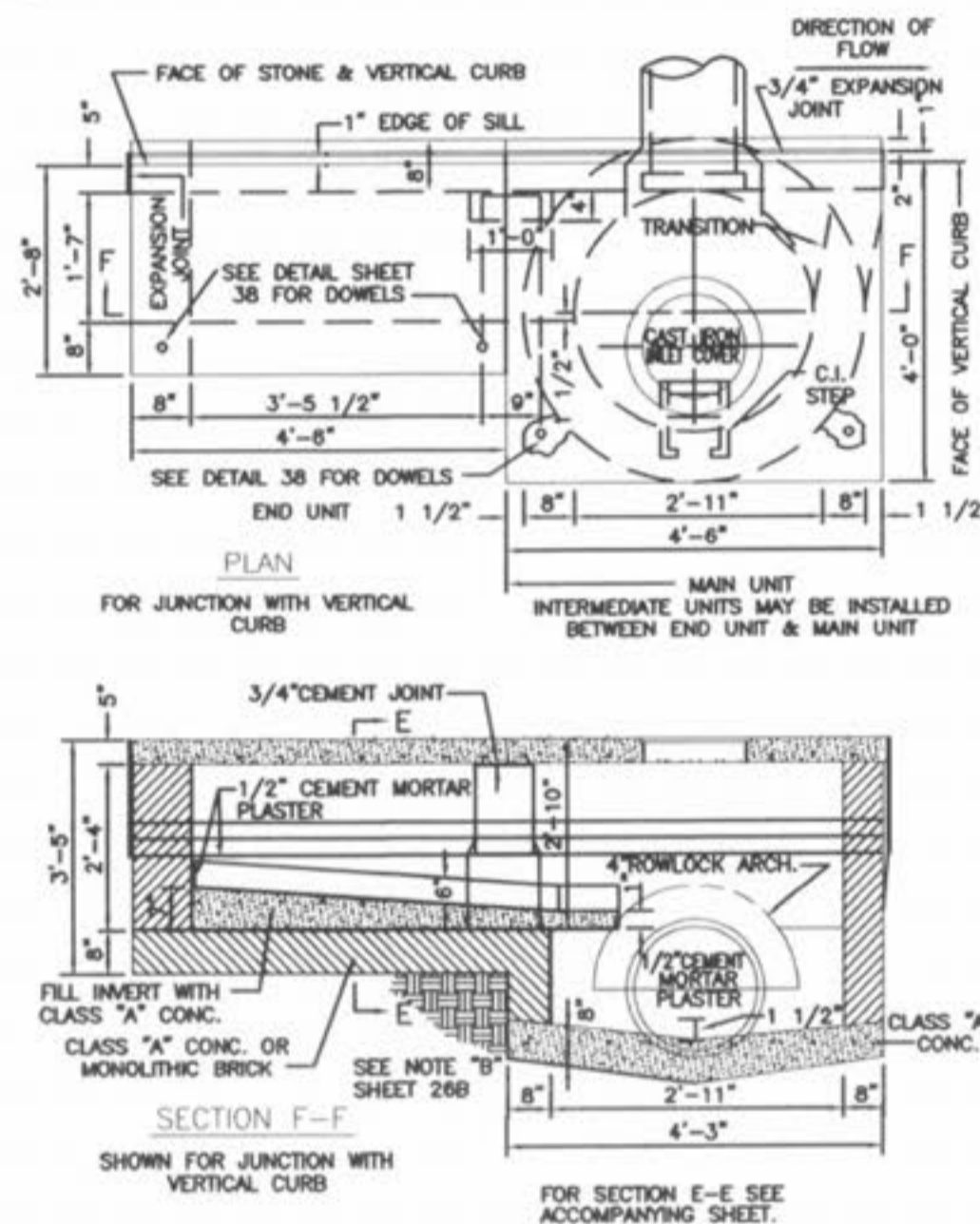
DOUBLE UNTRAPPED
INLET



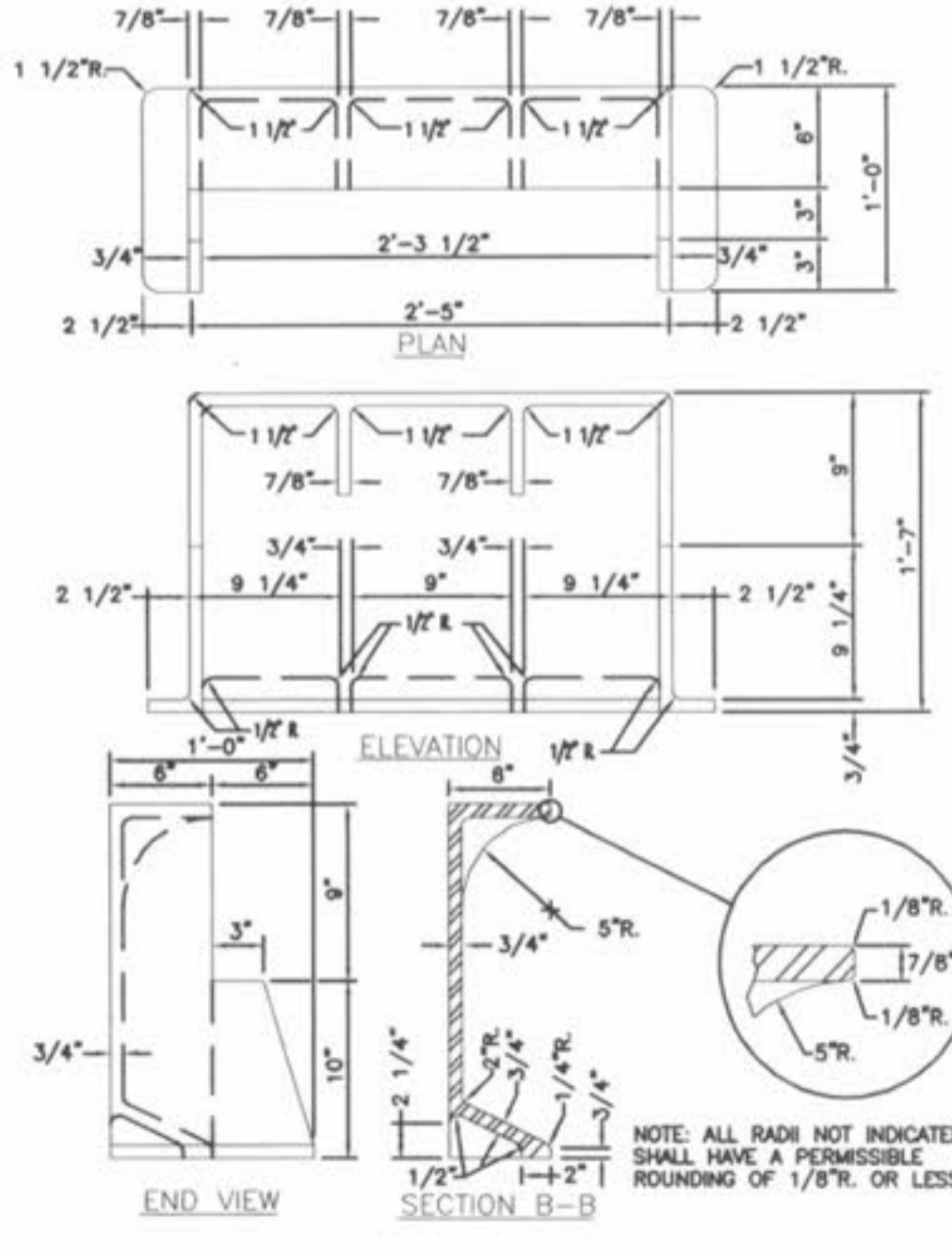
SECTION B-B



CONCRETE DOUBLE
STREET INLET
W/PRE-CAST TOP UNIT



MULTIPLE
STREET INLET
BRICK CONSTRUCTION



CAST IRON SIDE INTAKE
UNIT FOR GRATED INLETS
249 LBS.

PICKETT RAY & SILVER
CIVIL ENGINEERS
PLANNERS
LAND SURVEYORS

333 Mid Rivers Mall Drive
St. Peters, MO 63376
Phone (636) 397-1211
Fax (636) 397-1104

BROOKSIDE VILLAGE A
LIFT STATION & OFF-SITE FORCE MAIN
CONSTRUCTION DETAILS

Prepared For:
SUMMIT PONTE L.C.

239 FOX HILL ROAD
ST. CHARLES, MO 63301
636-540-9300

REVISIONS

NO.	DATE	REV. PER CITY COMMENTS
3	8/11/05	REV. PER CITY COMMENTS 7/26/05

ENGINEERS AUTHENTICATION
The responsibility for professional engineering liability on this project is hereby limited to the set of plans authorized by the seal, signature, and date hereunder attached. Responsibility is disclaimed for all other engineering plans involved in this project and specifically excludes revisions after this date unless reauthorized.

PICKETT, RAY & SILVER, INC.

HAROLD J. BARTCH
REGISTERED PROFESSIONAL ENGINEER
NO. 17751

DRAWN: JEF DATE: 8-26-04
CHECKED: DWD DATE: 8-26-04
PROJECT # 03029 SUPD.01R
TASK # 4 FIELD BOOK

BROOKSIDE - LIFT STATION & OFF-SITE FORCE MAIN
STRUCTURAL DETAILS SHEET
SHEET 36A OF 149

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