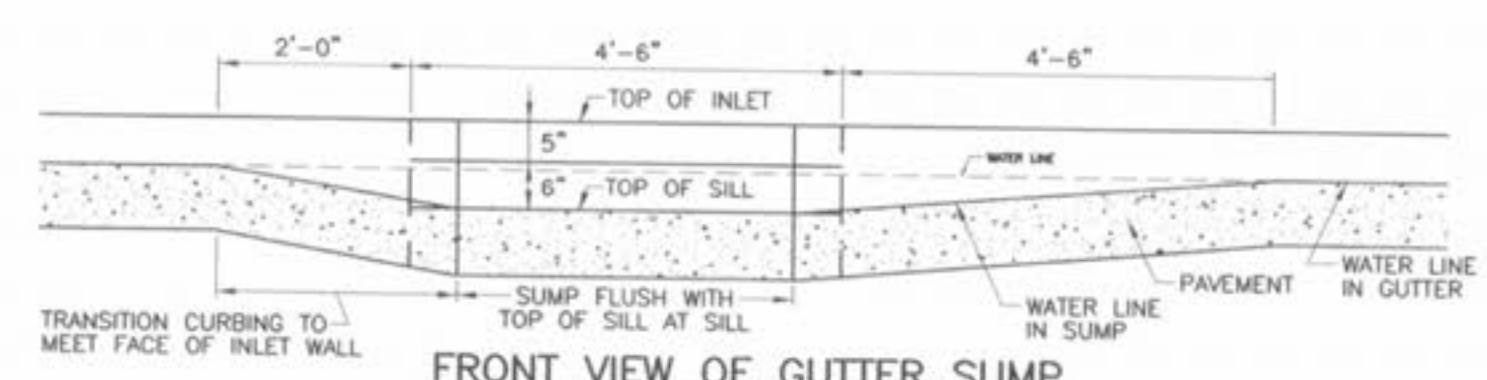
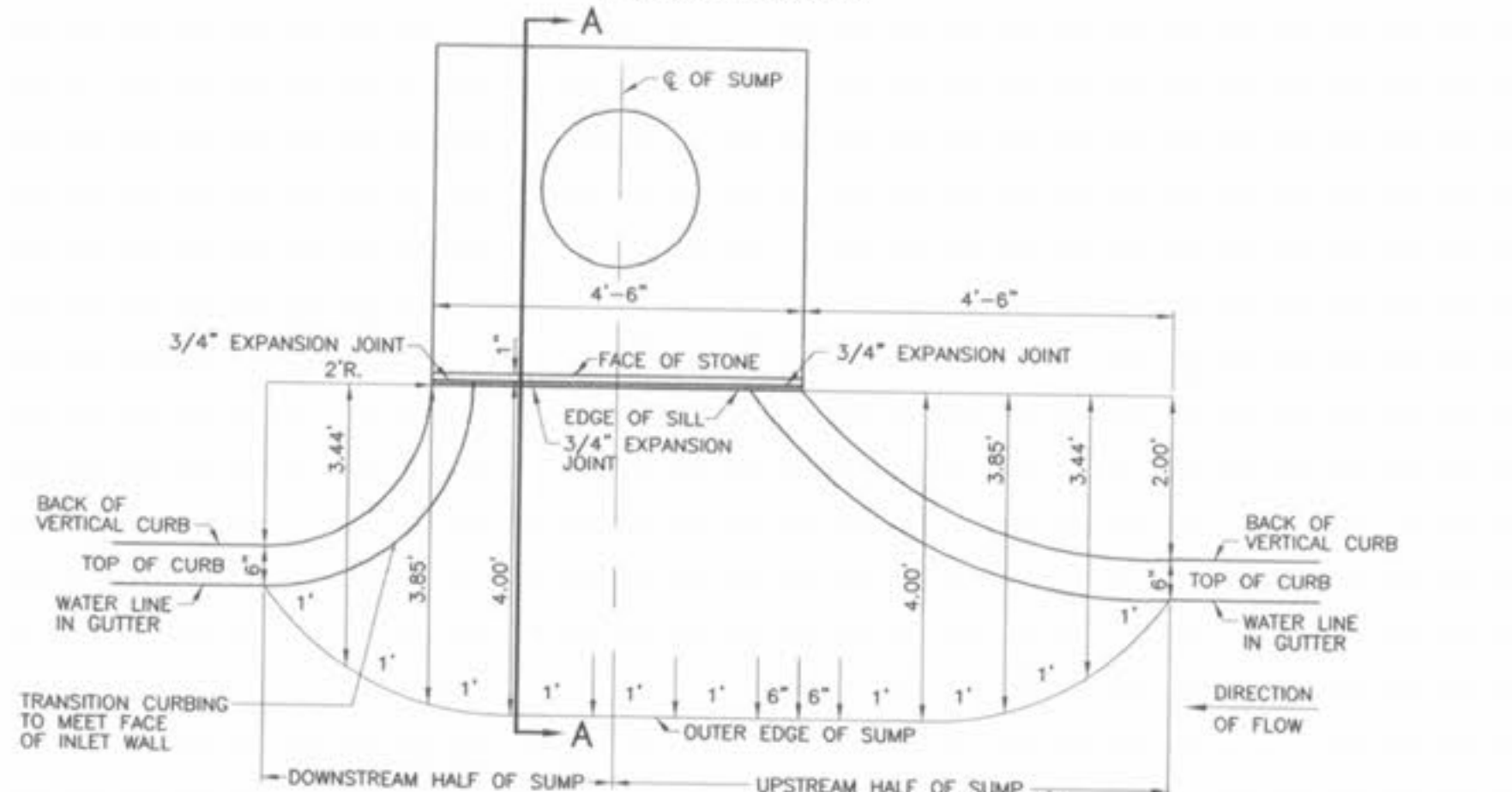


SECTION A-A



FRONT VIEW OF GUTTER SUMP

VERTICAL CURB



PLAN VIEW OF GUTTER SUMP

VERTICAL CURB

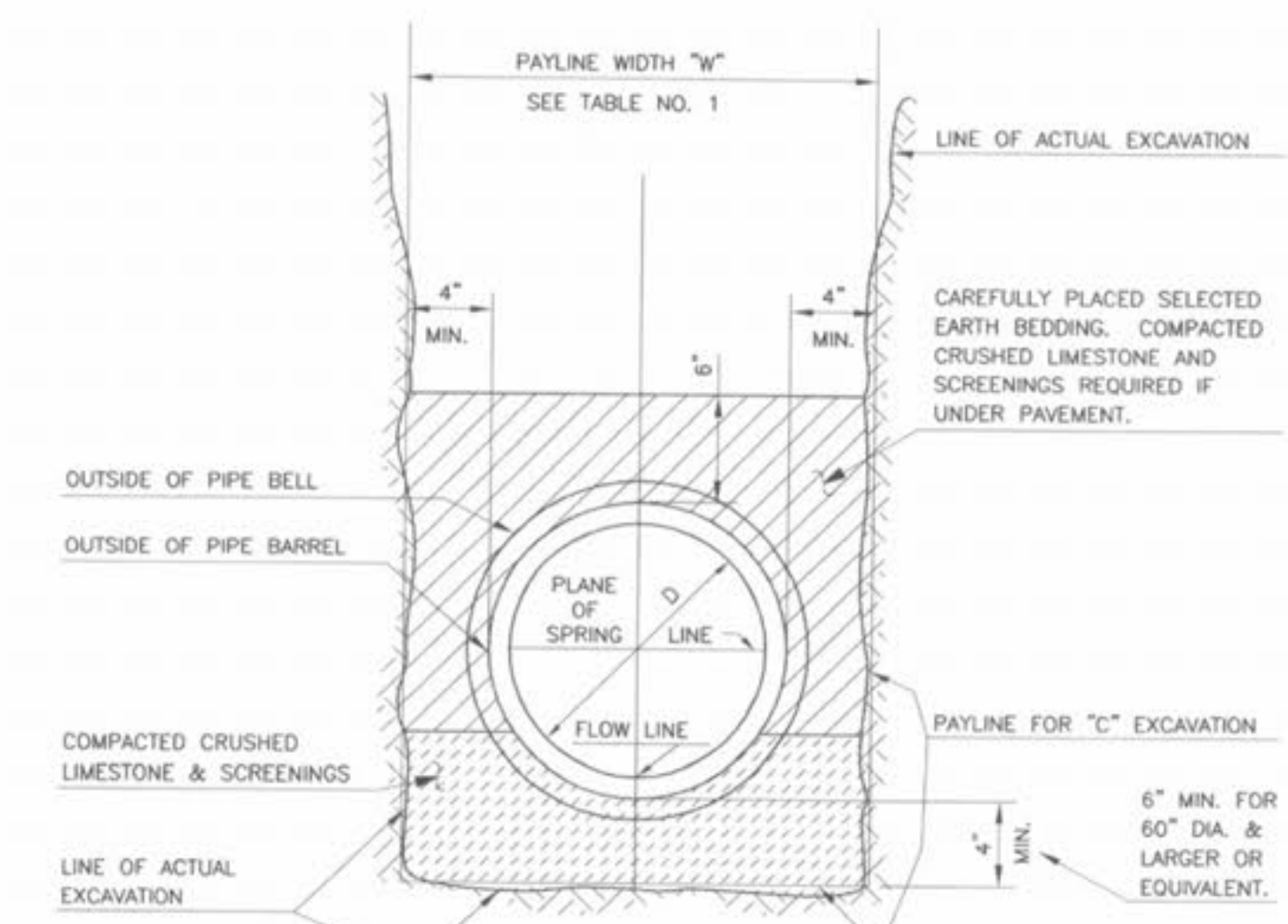
FOR INLET AT LOW POINT IN GRADE, SUMP IS SYMMETRICAL ABOUT CENTER LINE OF SUMP AS SHOWN FOR UPSTREAM.

ROUND PIPE				HORIZONTAL ELLIPTICAL PIPE			
Inside Diameter of Pipe (Inches)	"W" Payline Width of Trench (Inches)	"W" Payline Width of Trench (Feet)	Pay-volumes cu. ft. per ft. Concrete Encasement	Inside Diameter of Pipe (Inches)	"W" Payline Width of Trench (Inches)	"W" Payline Width of Trench (Feet)	Pay-volumes cu. ft. per ft. Concrete Encasement
4	28	2.33	3.20				
6	28	2.33	3.46				
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
48	70	5.83	15.67	38 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

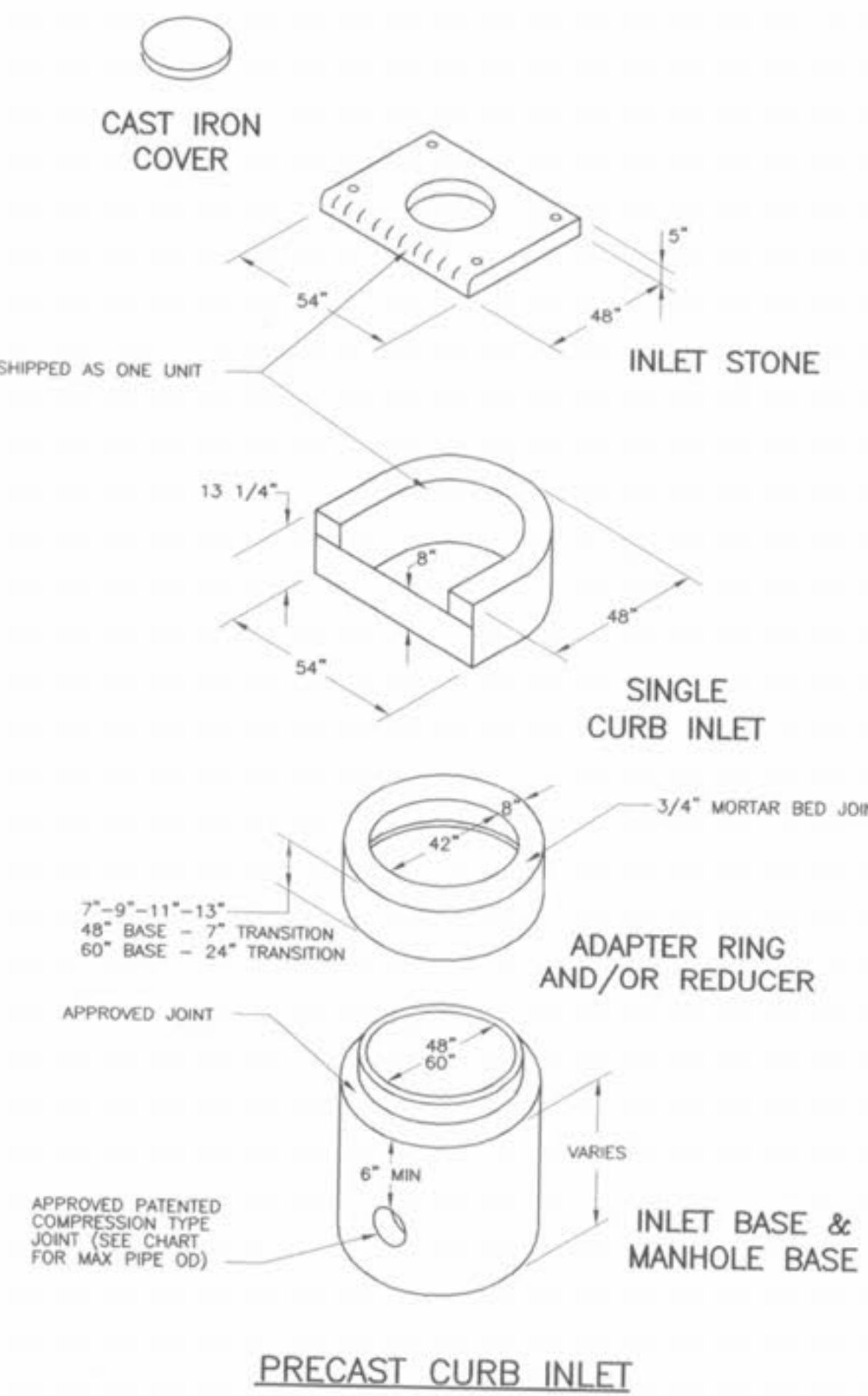
PAYLINE WIDTHS OF TRENCH AND PAY-QUANTITIES OF CONCRETE

PIPE ID NOMINAL INCHES	AREA INLET CIRCULAR BASE DIA.		2 GRATE INLET CIRCULAR BASE DIA.		SINGLE STREET INLET CIRCULAR BASE DIA.	
	48"	60"	48"	60"	48"	60"
12"	45" (3.75')		38" (3.17')		31" (2.58')	41" (3.42')
15"	48" (4.00')		41" (3.42')		34" (2.83')	44" (3.67')
18"	52" (4.33')		44" (3.67')		37" (3.08')	48" (4.00')
21"	55" (4.58')		47" (3.92')		40" (3.33')	51" (4.25')
24"	58" (4.83')		51" (4.25')		44" (3.67')	54" (4.50')
27"		78" (6.50')		71" (5.92')		81" (6.75')
30"		82" (6.83')		74" (6.17')		85" (7.08')
33"		85" (7.08')		77" (6.42')		88" (7.33')

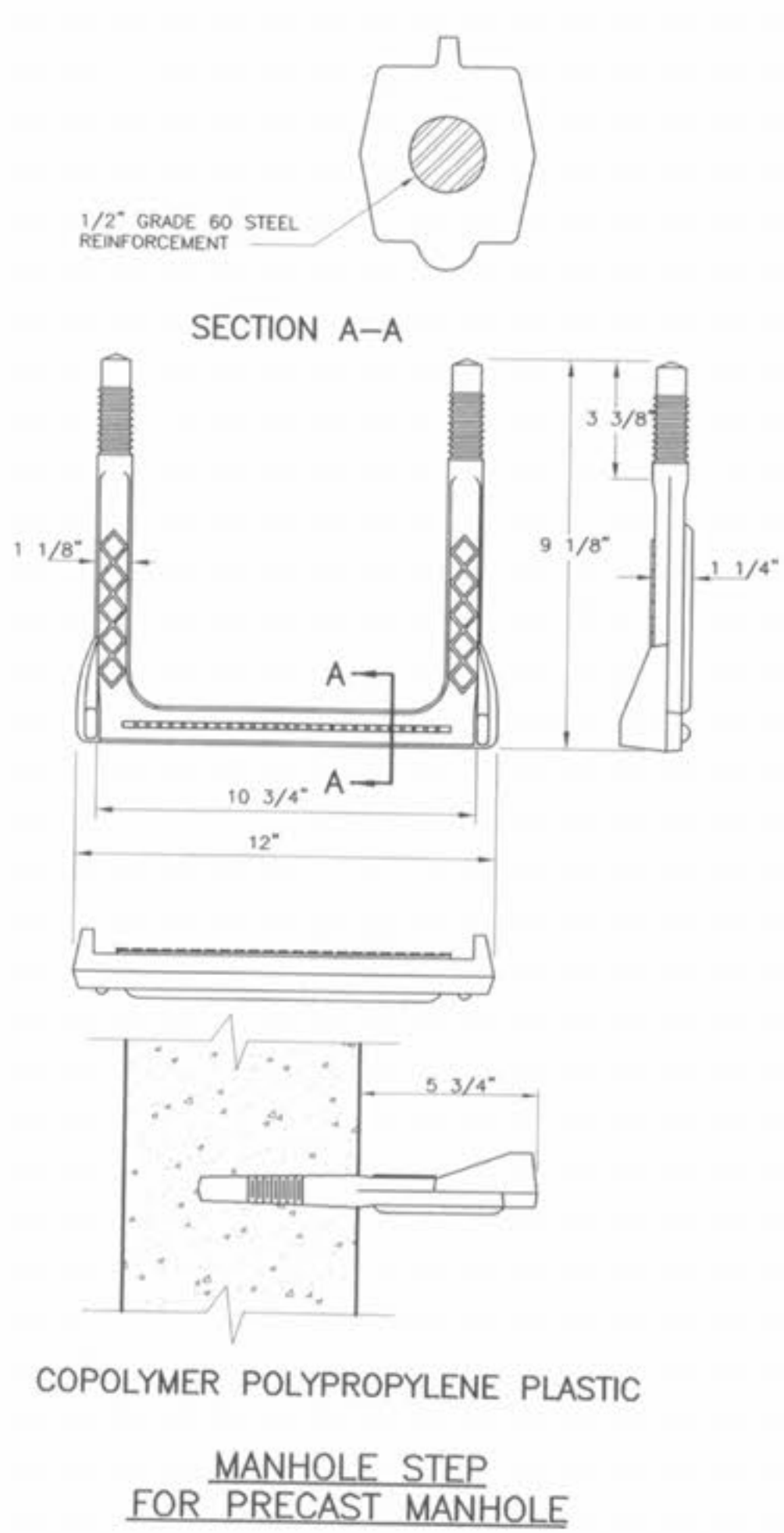
PRECAST CONCRETE STORMWATER STRUCTURES



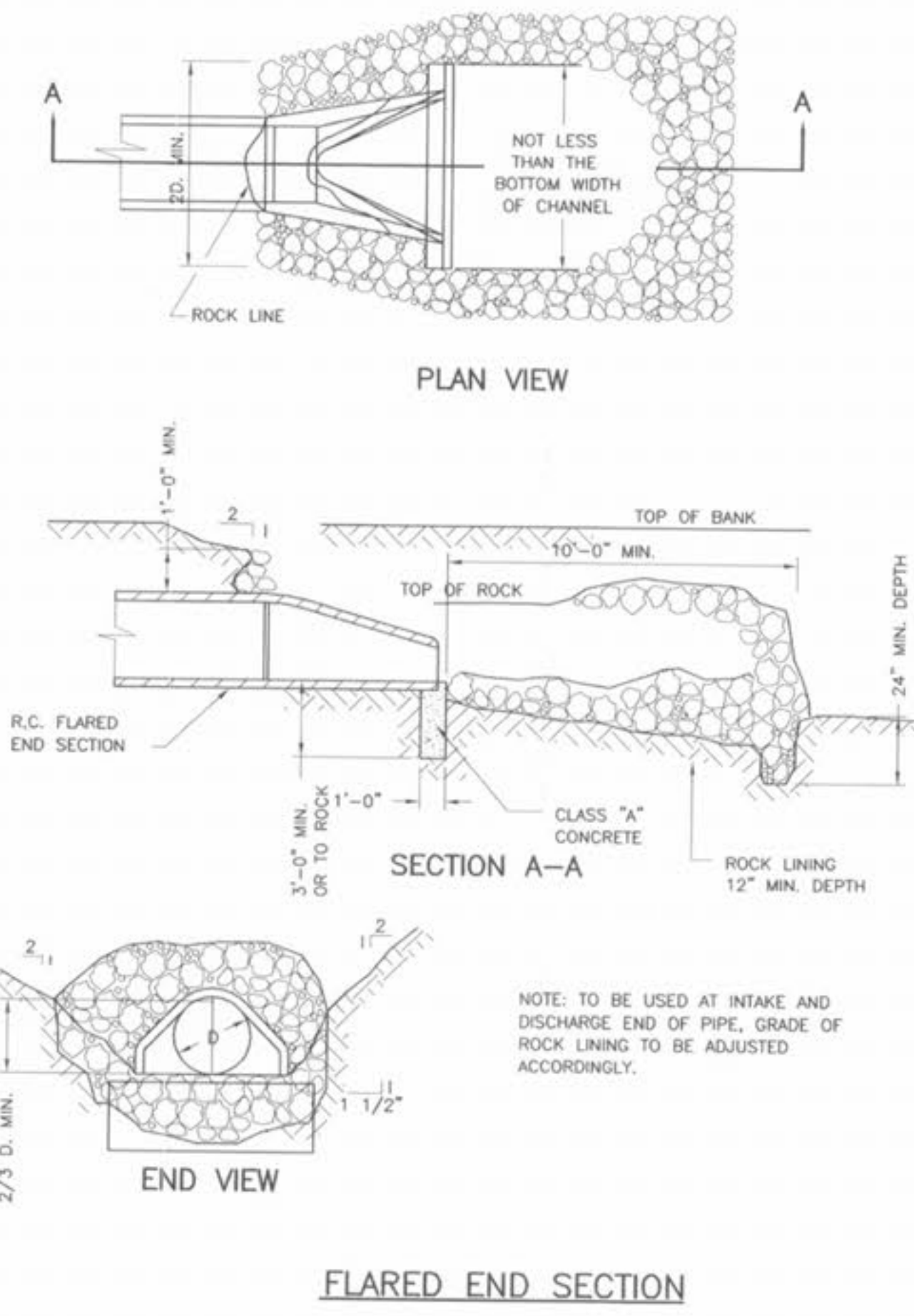
PIPE BEDDING CLASS "C" (MODIFIED FOR REINFORCED CONCRETE PIPE)



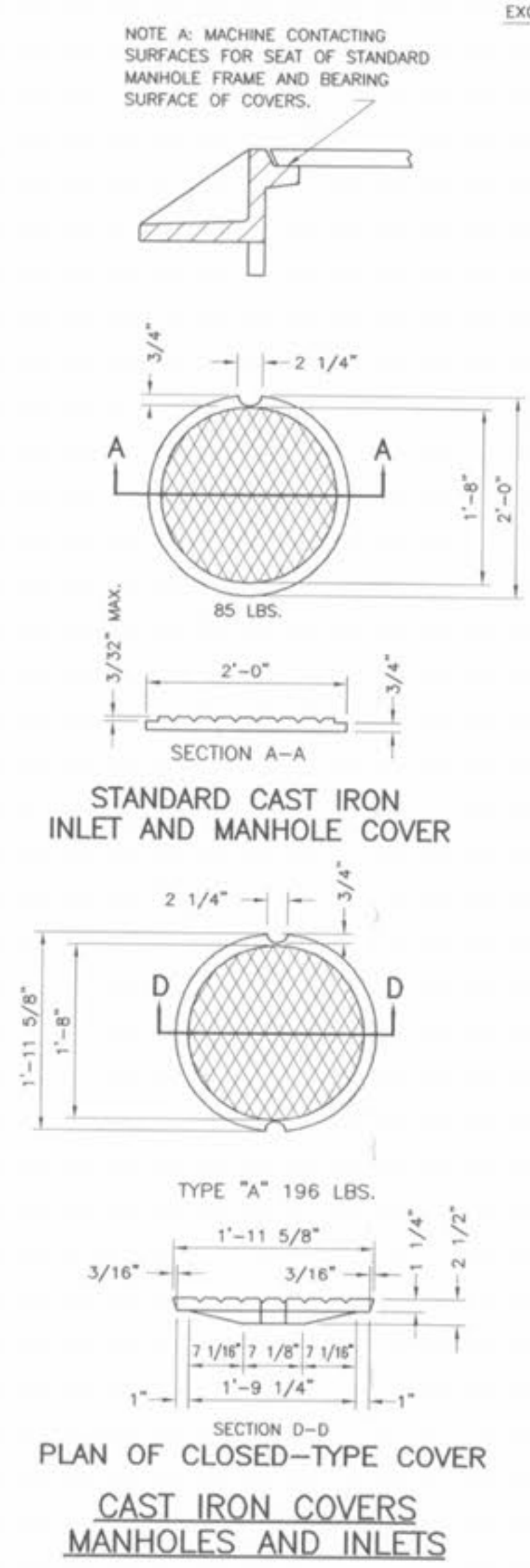
PRECAST CURB INLET



MANHOLE STEP FOR PRECAST MANHOLE

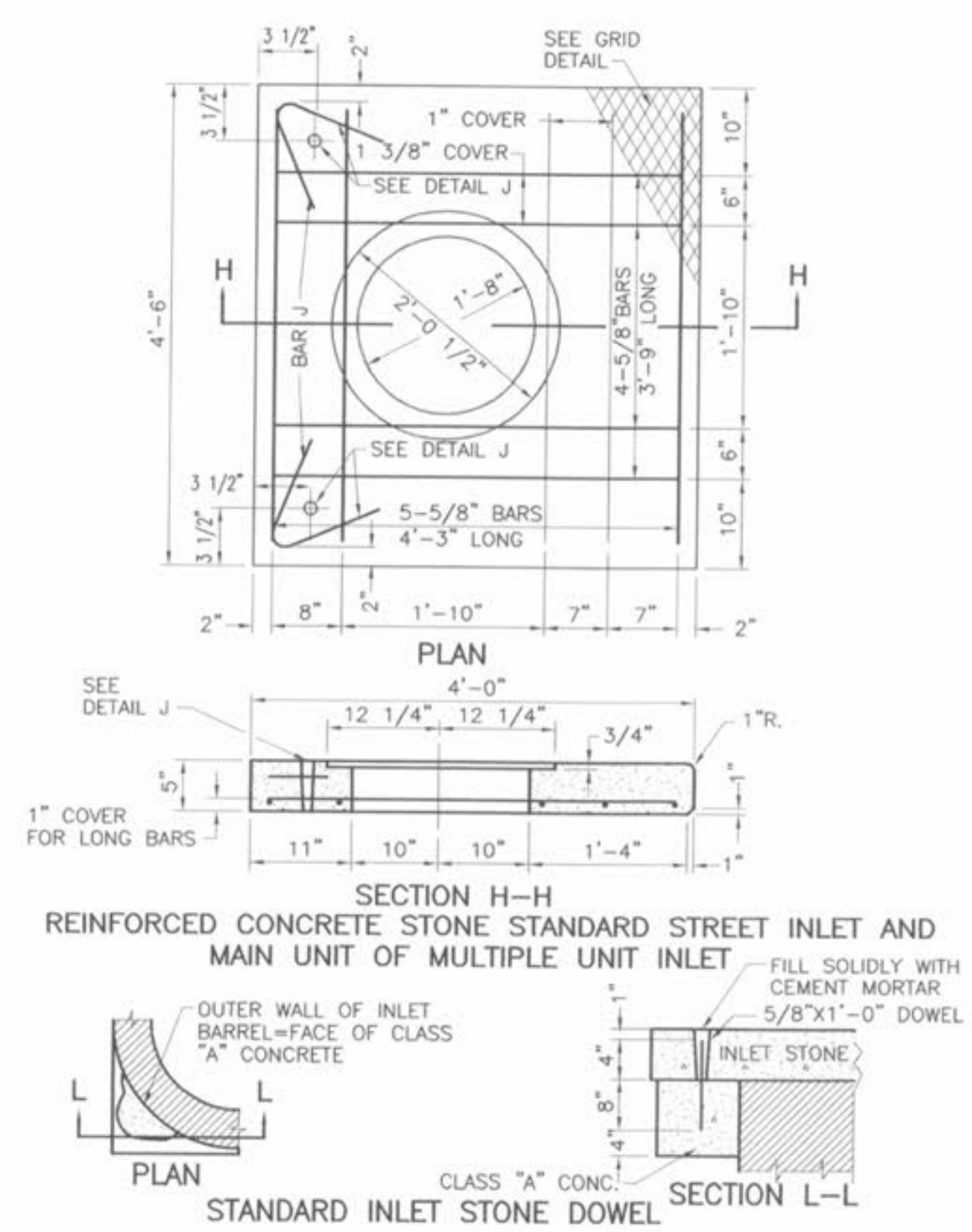


FLARED END SECTION



STANDARD CAST IRON INLET AND MANHOLE COVER

CAST IRON COVERS MANHOLES AND INLETS



STANDARD - INLET STONES, BLOCKS & DESIGN DETAILS

COOL SPRINGS CONNECTOR ROAD

DETAILS

CITY OF O'FALLON COMMUNITY DEVELOPMENT DESIGN DIVISION O'FALLON, MISSOURI

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DATE: 02/28/02  
PROJECT NO.: 01-064

SHEET 10 OF 11