

ROUND PIPE				HORIZONTAL ELLIPTICAL PIPE			
PIPE DIAMETER (INCHES)	"W" PAYLINE WIDTH OF TRENCH (INCHES)	"W" PAYLINE WIDTH OF TRENCH (FEET)	PAY-VOLUMES (CU. FT. PER FT.)	CONCRETE ENCASEMENT (INCHES)	"W" PAYLINE WIDTH OF TRENCH (INCHES)	"W" PAYLINE WIDTH OF TRENCH (FEET)	PAY-VOLUMES (CU. FT. PER FT.)
4	30	2.50	3.28				
6	30	2.50	3.59				
8	30	2.50	3.87				
10	30	2.50	4.06				
12	30	2.50	4.25				
15	36	3.00	5.55				
18	36	3.00	5.77	14 x 23	41	3.42	5.94
21	36	3.00	6.01				
24	42	3.50	7.39	19 x 30	49	4.04	7.88
27	42	3.50	7.68	22 x 34	53	4.42	8.61
30	48	4.00	9.30	24 x 38	58	4.83	9.70
33	48	4.00	9.55	27 x 42	62	5.17	10.71
36	48	4.00	9.81	29 x 45	66	5.50	11.72
39	54	4.50	11.43	32 x 48	71	5.92	13.14
42	54	4.50	11.70	34 x 53	75	6.25	14.05
45	54	4.50	12.00	36 x 58	80	6.62	15.18
48	60	5.00	13.67	41 x 68	92	7.87	18.81
51	60	5.00	14.00	43 x 74	97	8.32	19.99
54	66	5.50	15.84	48 x 86	108	9.63	23.59
57	66	5.50	16.20	50 x 92	113	10.08	24.85
60	72	6.00	18.18	55 x 106	126	11.50	28.50
63	72	6.00	18.57	57 x 112	131	11.95	29.76
66	78	6.50	20.37	62 x 126	144	13.40	33.40
69	78	6.50	20.80	64 x 132	149	13.85	34.66
72	84	7.00	22.77	69 x 146	162	15.30	38.30
75	84	7.00	23.23	71 x 152	167	15.75	39.56
78	90	7.50	24.84	76 x 166	180	17.20	43.20
81	90	7.50	25.33	78 x 172	185	17.65	44.46
84	96	8.00	26.64	83 x 186	198	19.10	48.10
87	96	8.00	27.15	85 x 192	203	19.55	49.36
90	102	8.50	28.59	90 x 210	216	21.00	52.70
93	102	8.50	29.13	92 x 216	221	21.45	53.96
96	108	9.00	30.18	97 x 230	234	22.90	57.30
99	108	9.00	30.75	99 x 236	239	23.35	58.56
102	114	9.50	31.86	104 x 250	252	24.80	61.70
105	114	9.50	32.43	106 x 256	257	25.25	62.96
108	120	10.00	33.60	111 x 270	270	26.70	66.10
111	120	10.00	34.19	113 x 276	275	27.15	67.36
114	126	10.50	35.46	118 x 290	288	28.60	70.50
117	126	10.50	36.07	120 x 296	293	29.05	71.76
120	132	11.00	36.84	123 x 302	298	29.50	73.02
123	132	11.00	37.43	125 x 308	303	29.95	74.28
126	138	11.50	38.25	130 x 322	316	31.40	77.42
129	138	11.50	38.87	132 x 328	321	31.85	78.68
132	144	12.00	40.20	137 x 342	334	33.30	81.82
135	144	12.00	40.83	139 x 348	339	33.75	83.08
138	150	12.50	42.18	144 x 362	352	35.20	86.12
141	150	12.50	42.83	146 x 368	357	35.65	87.38

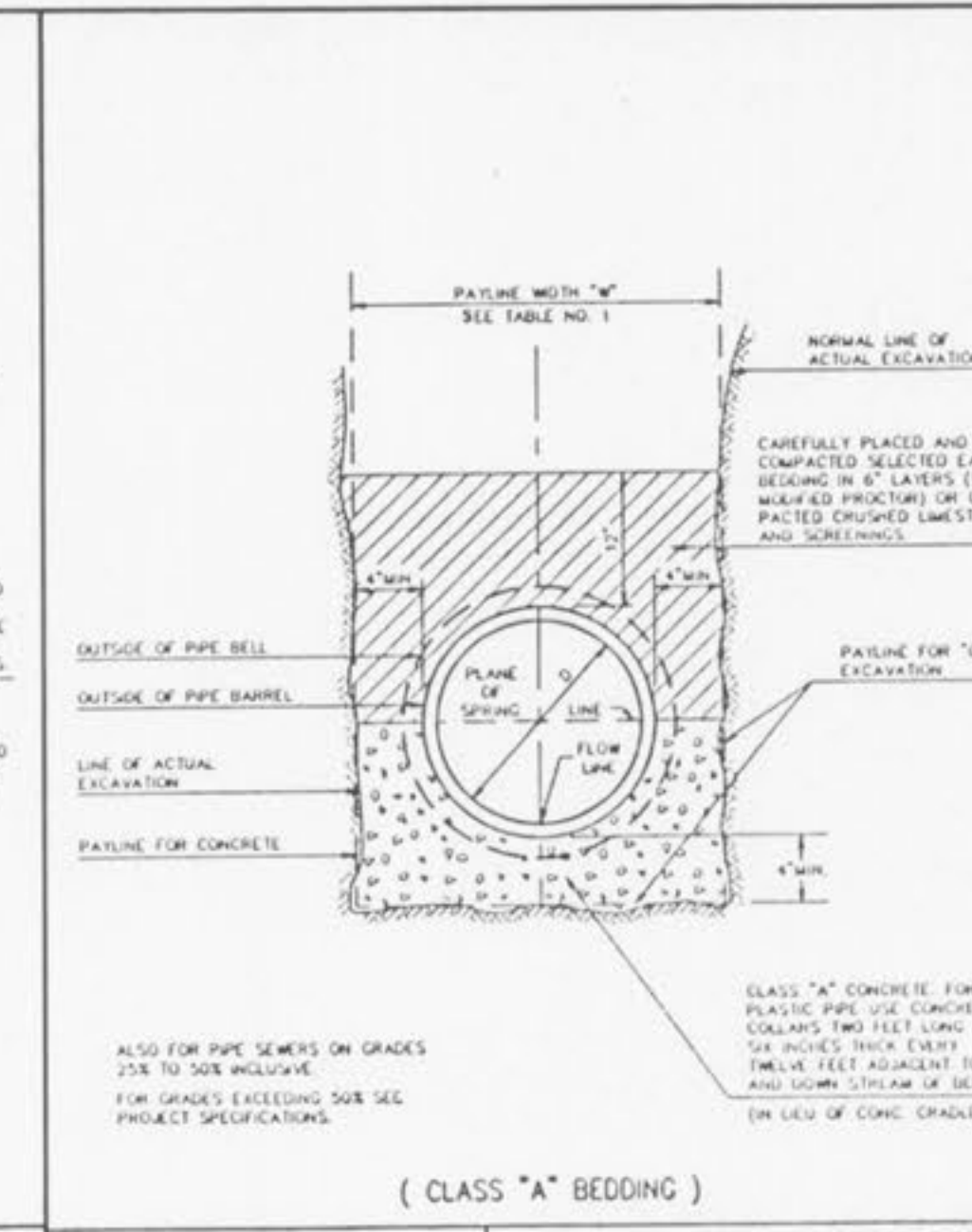
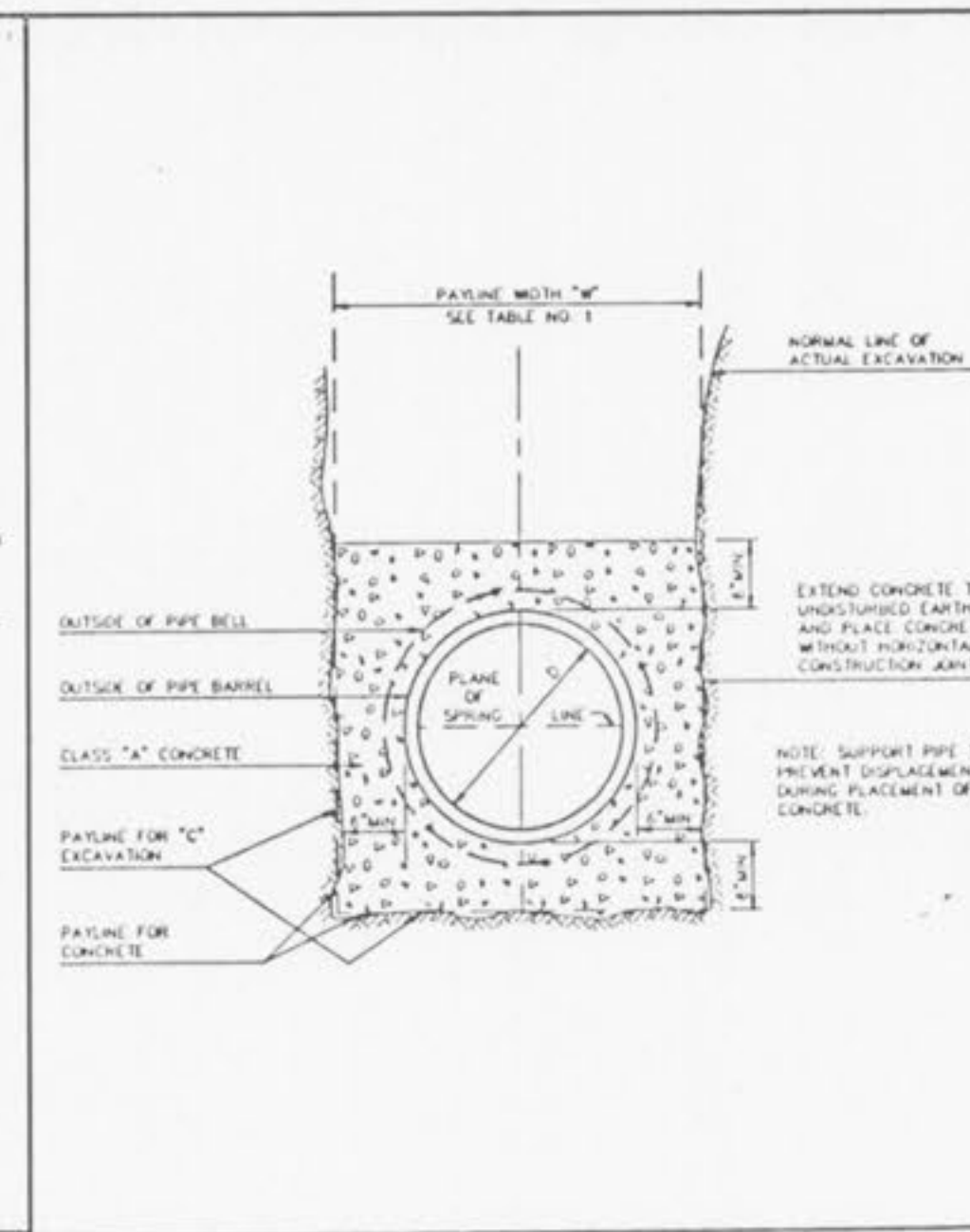
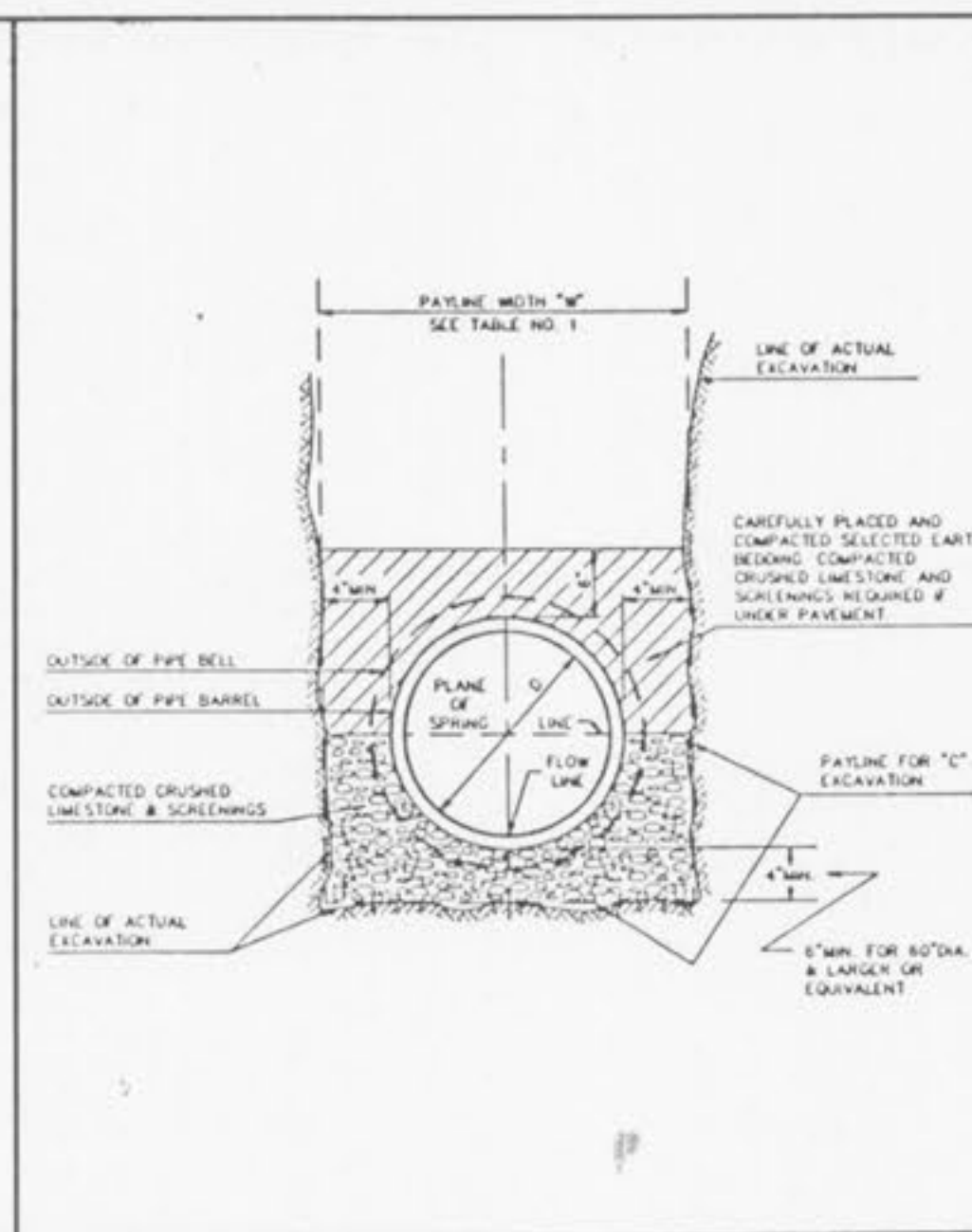
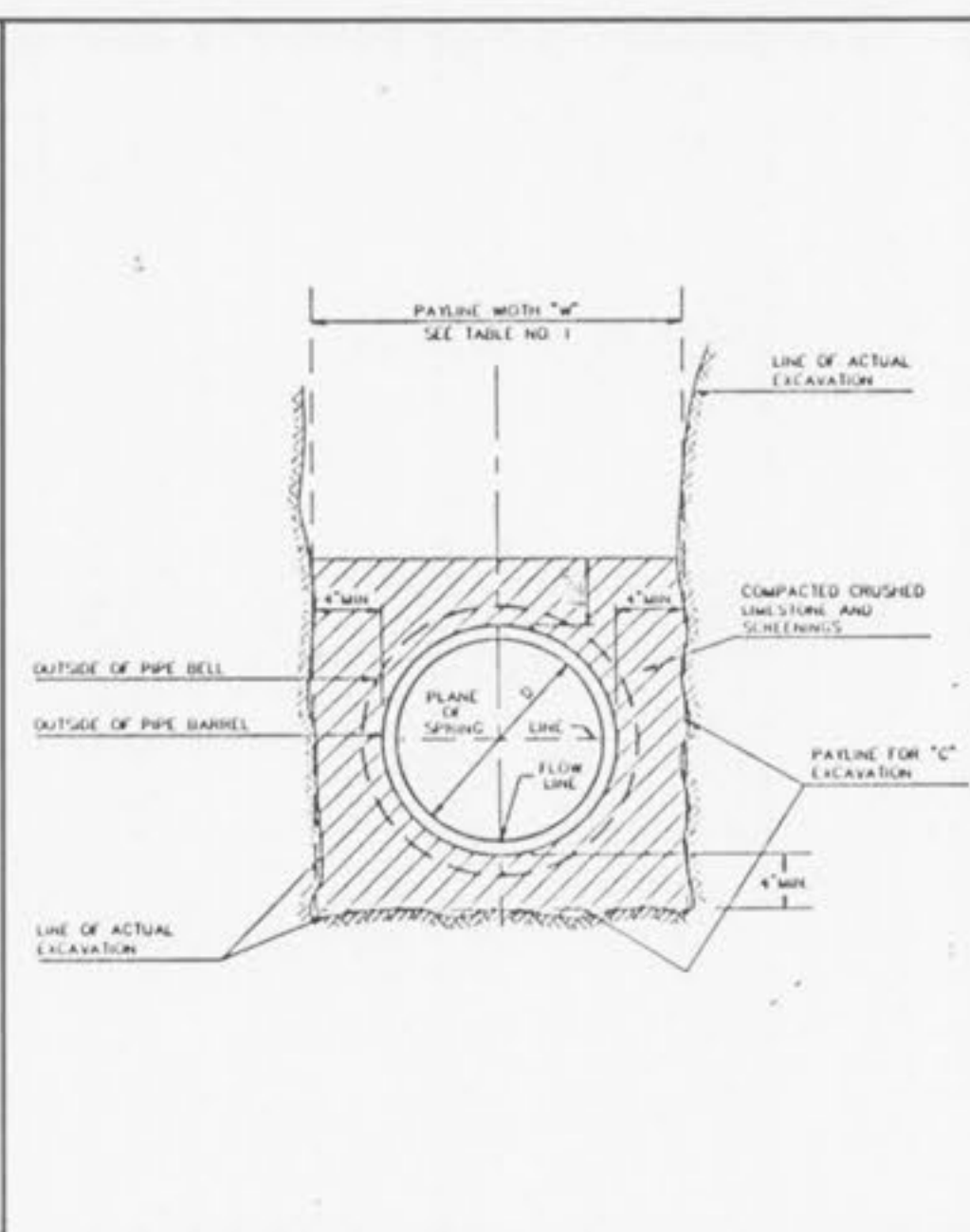
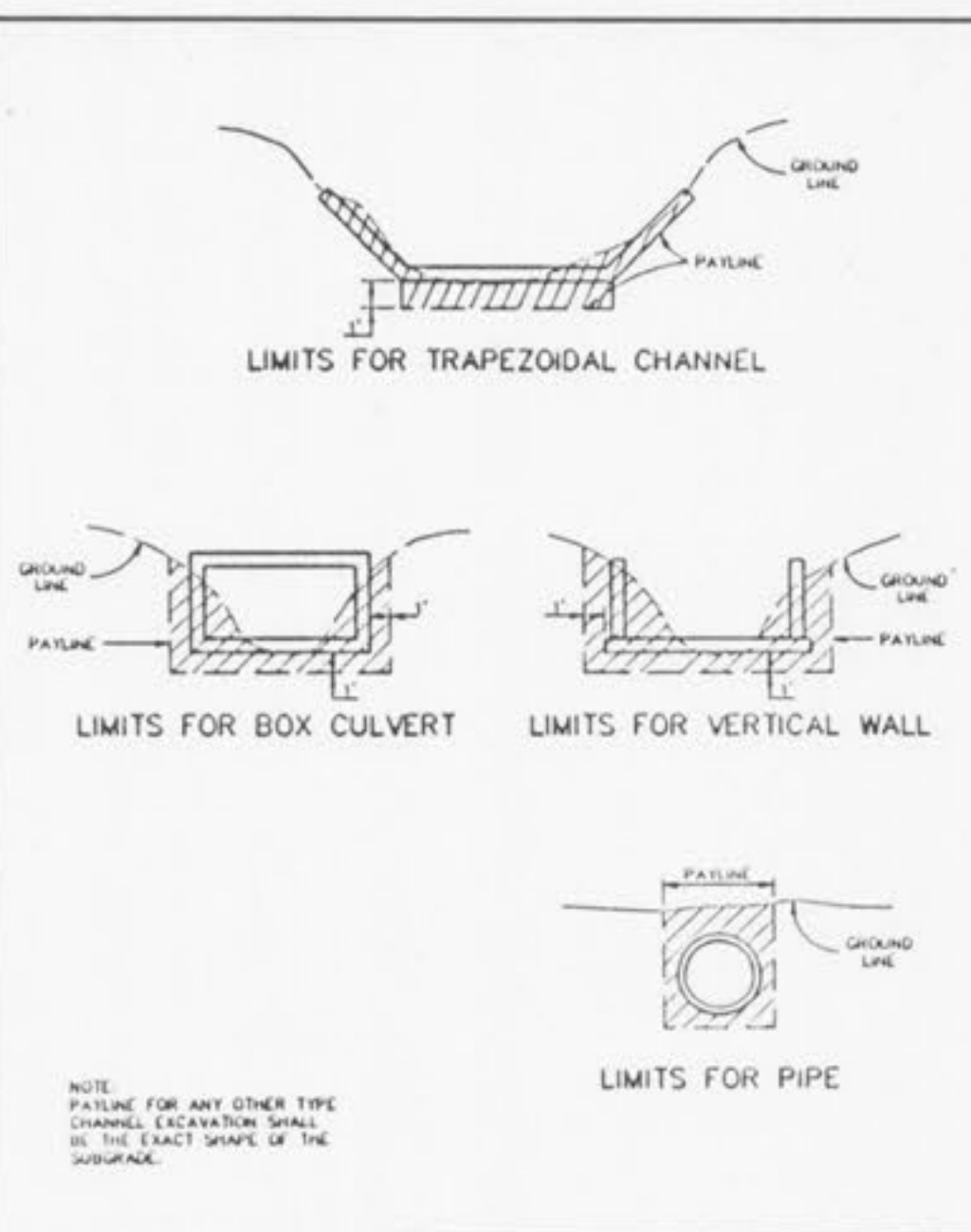


TABLE 1  
PAYLINE WIDTHS OF TRENCH AND PAY-QUANTITIES OF CONCRETE

METROPOLITAN ST. LOUIS SEWER DISTRICT  
Standard Details of Sewer Construction

METROPOLITAN ST. LOUIS SEWER DISTRICT  
Standard Details of Sewer Construction

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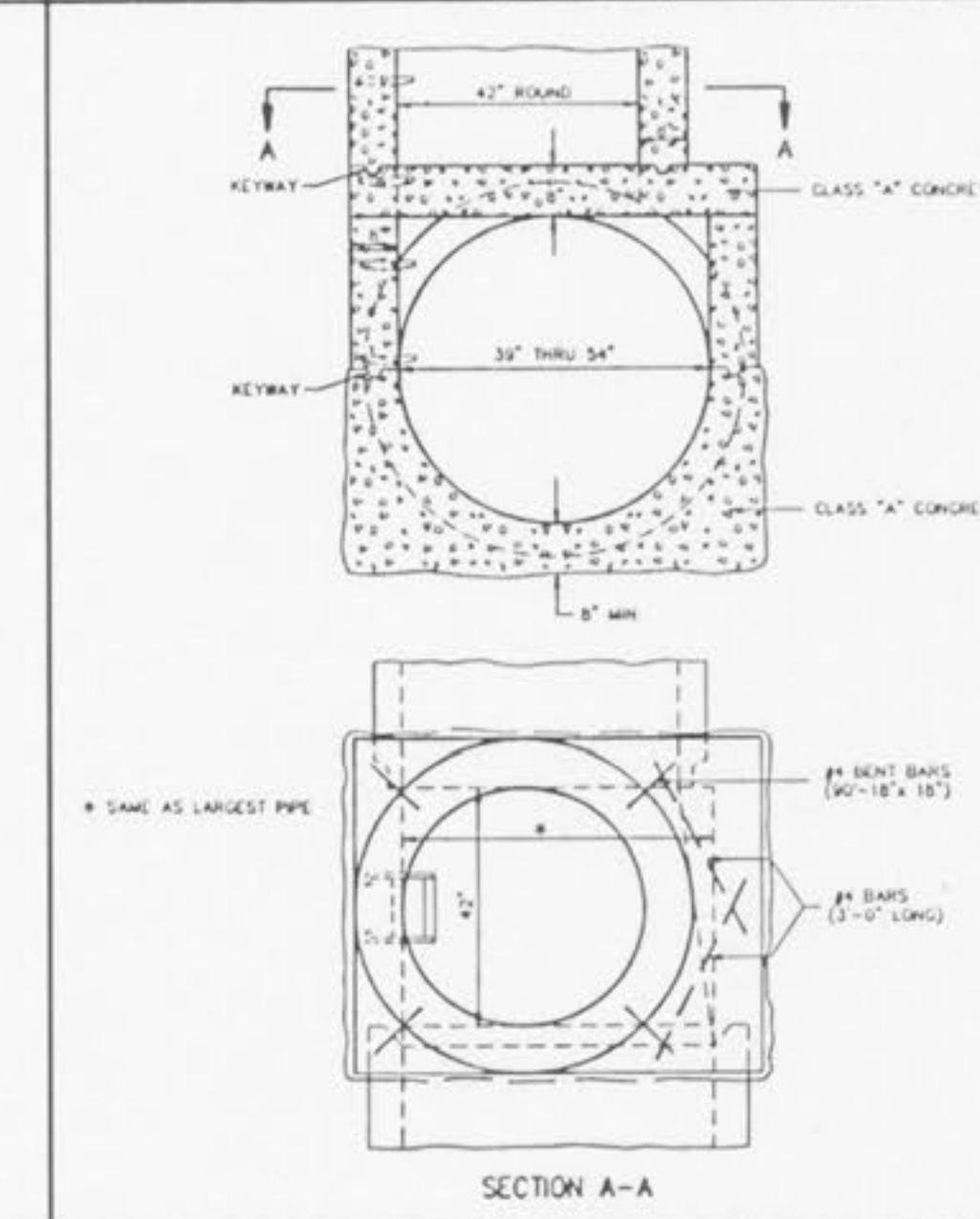
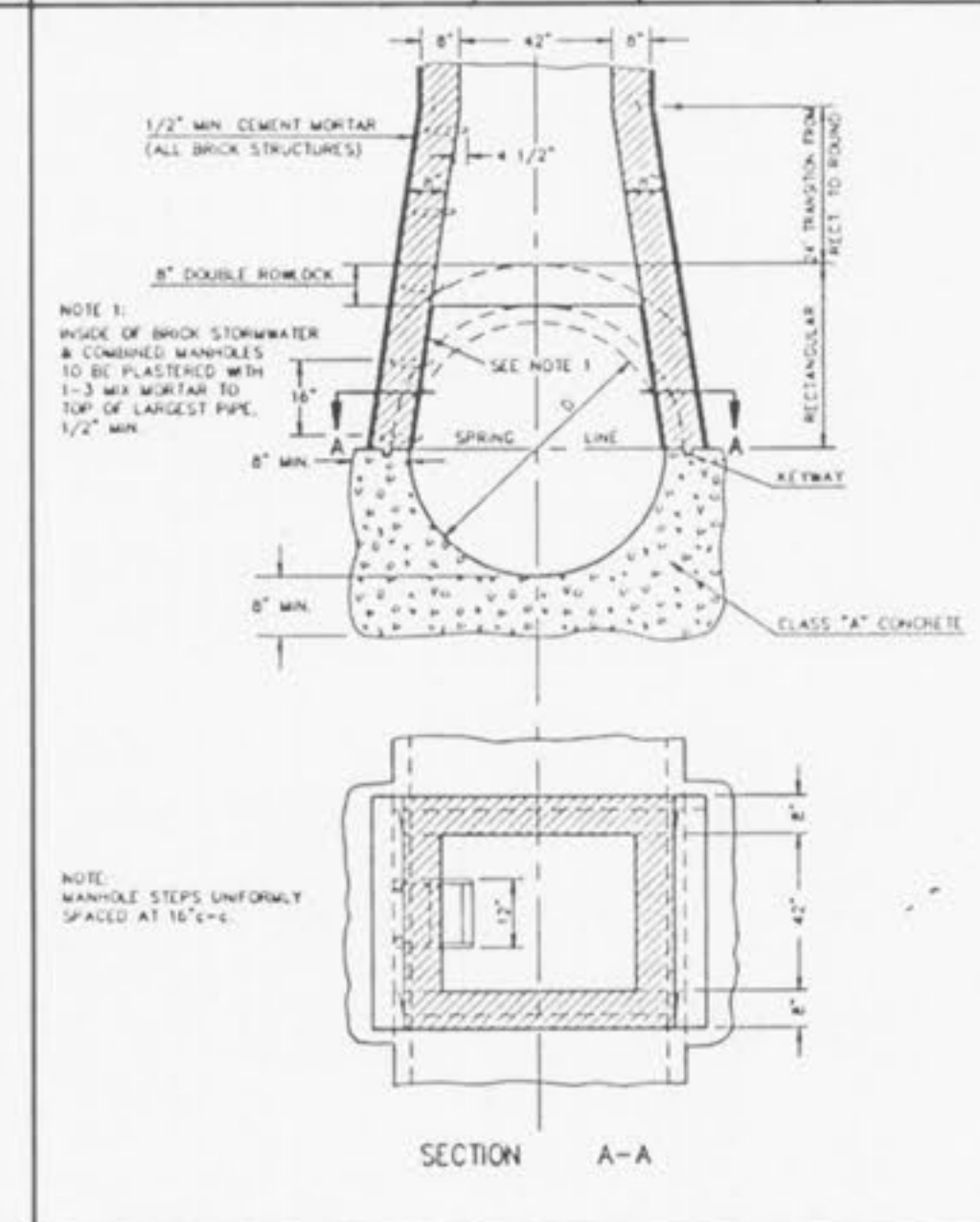
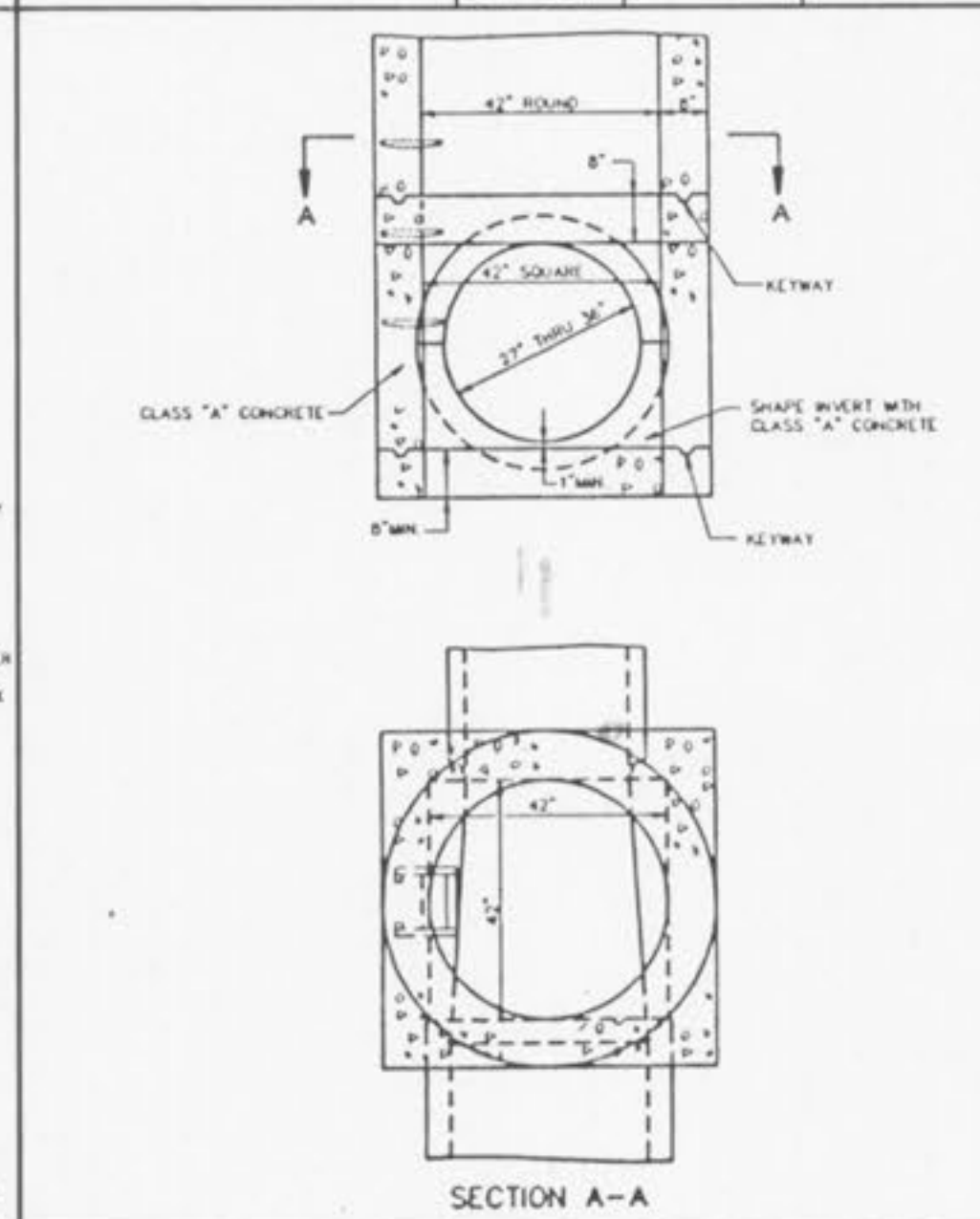
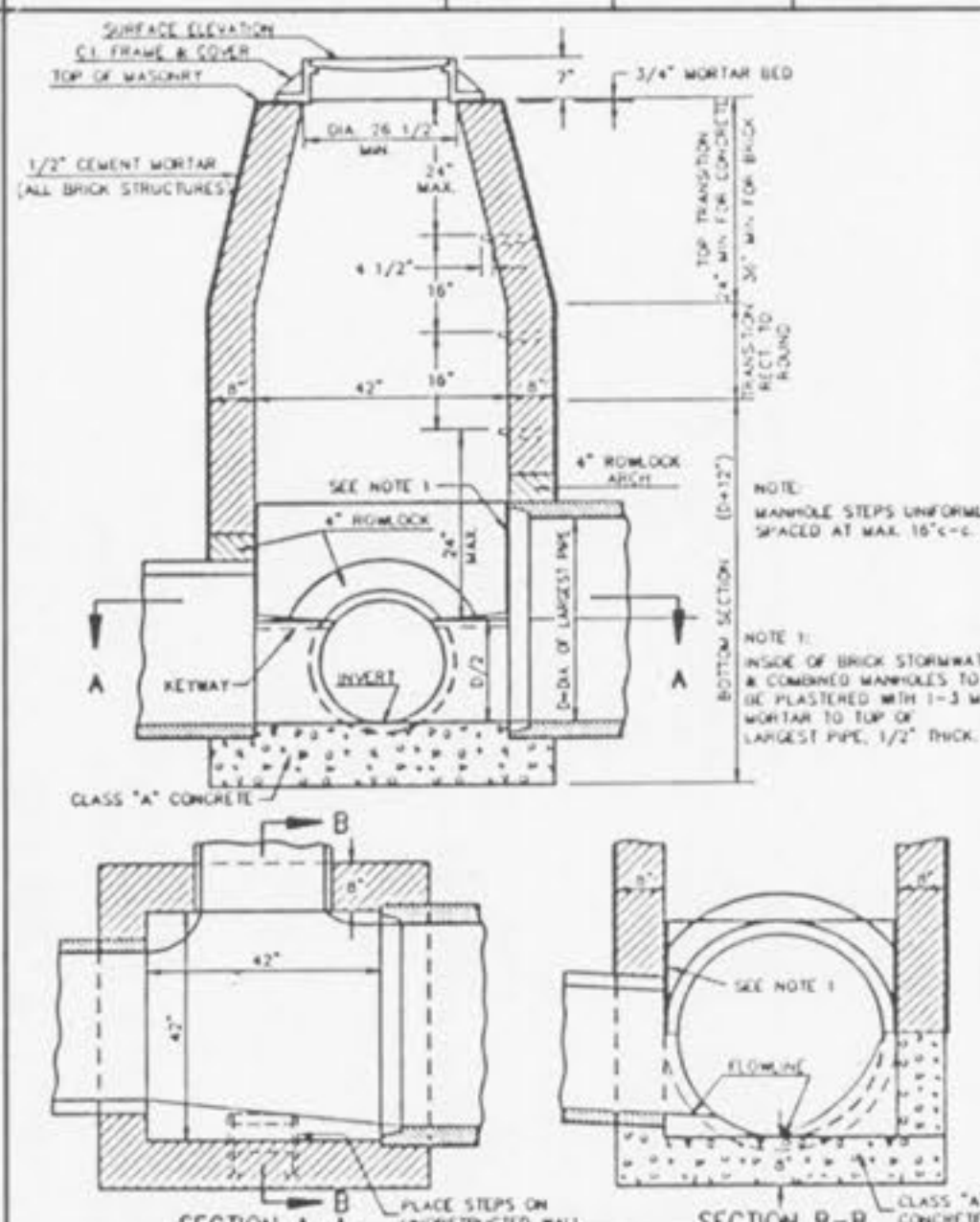
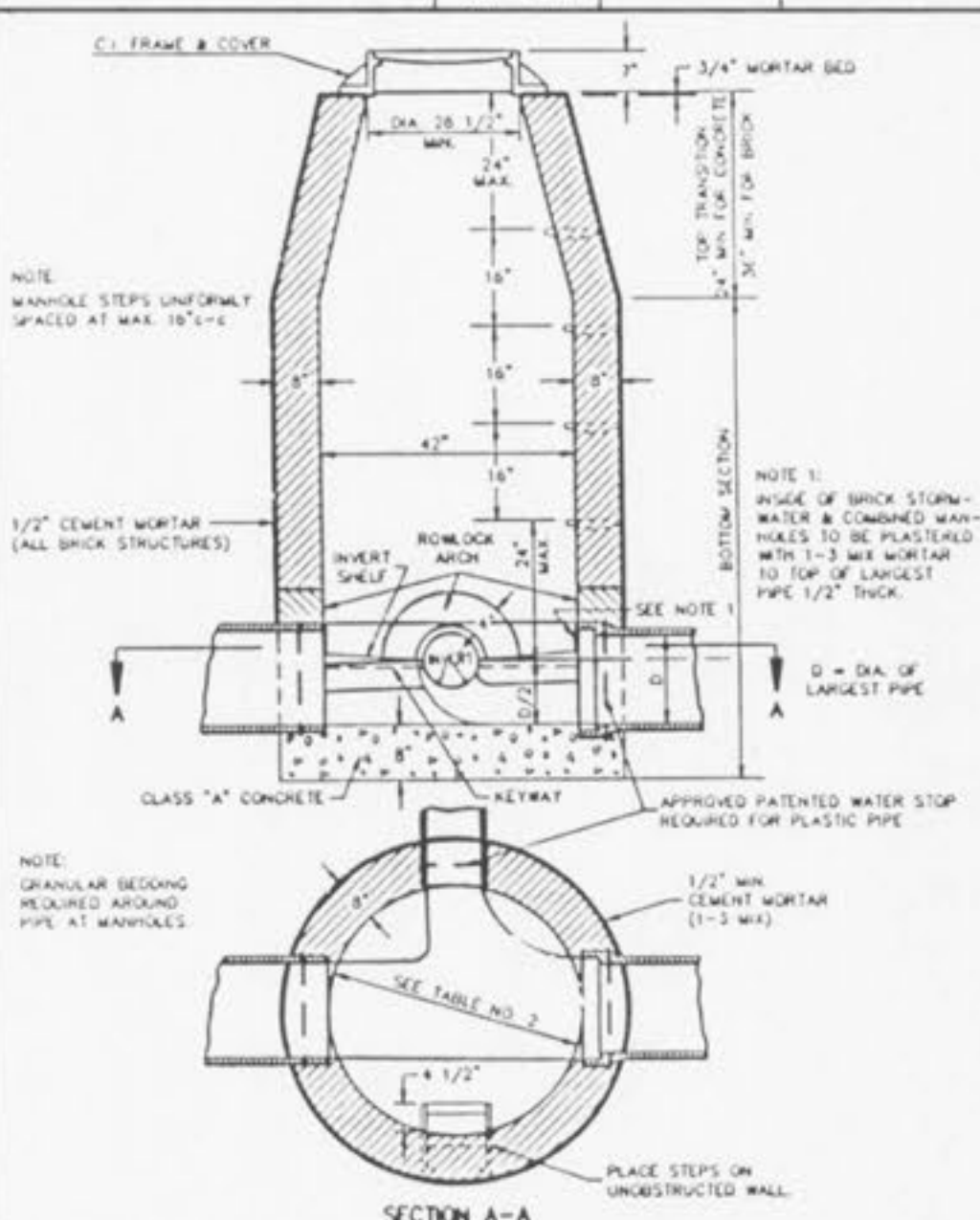
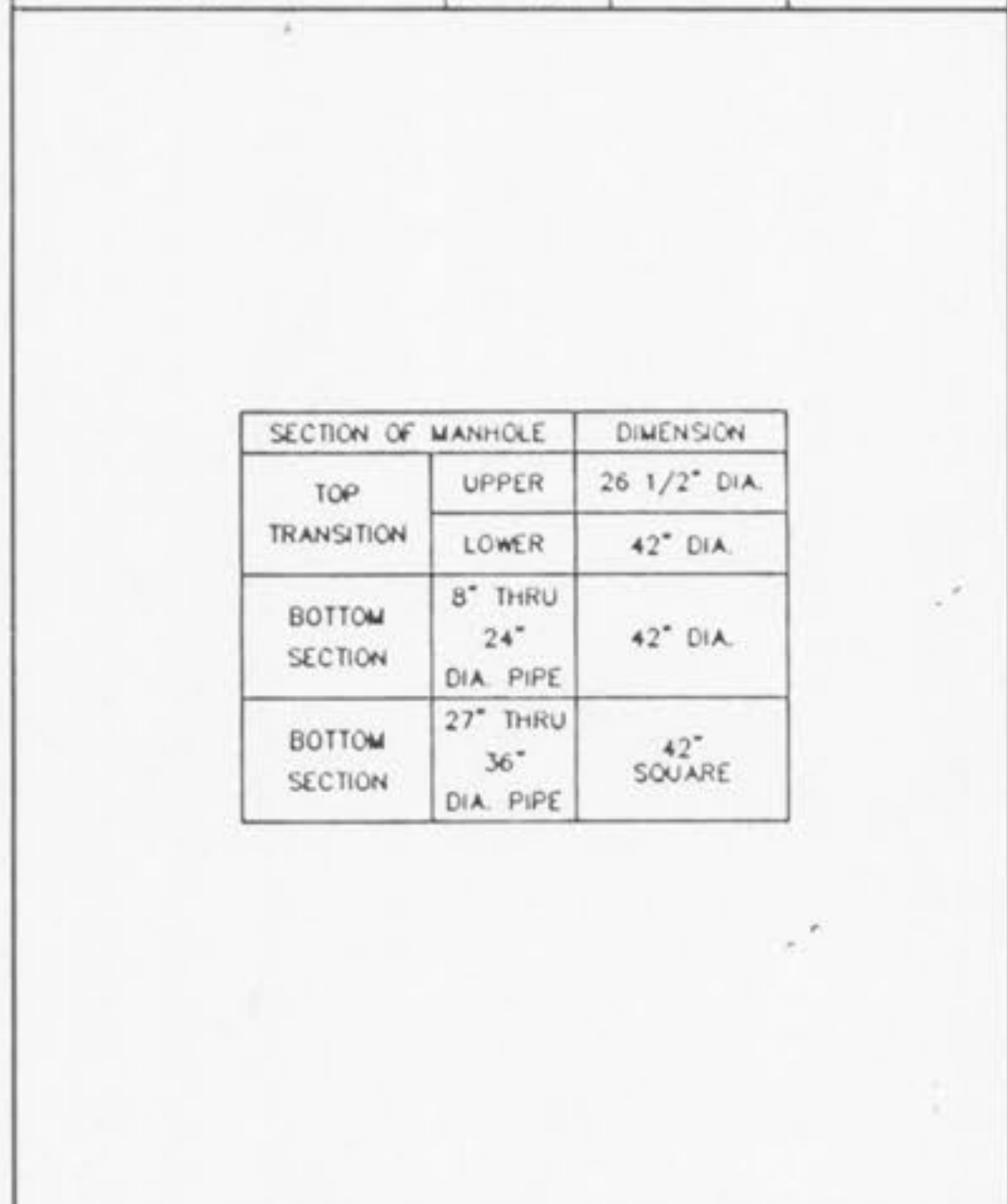


TABLE NO. 2  
STANDARD MANHOLE DIMENSIONS

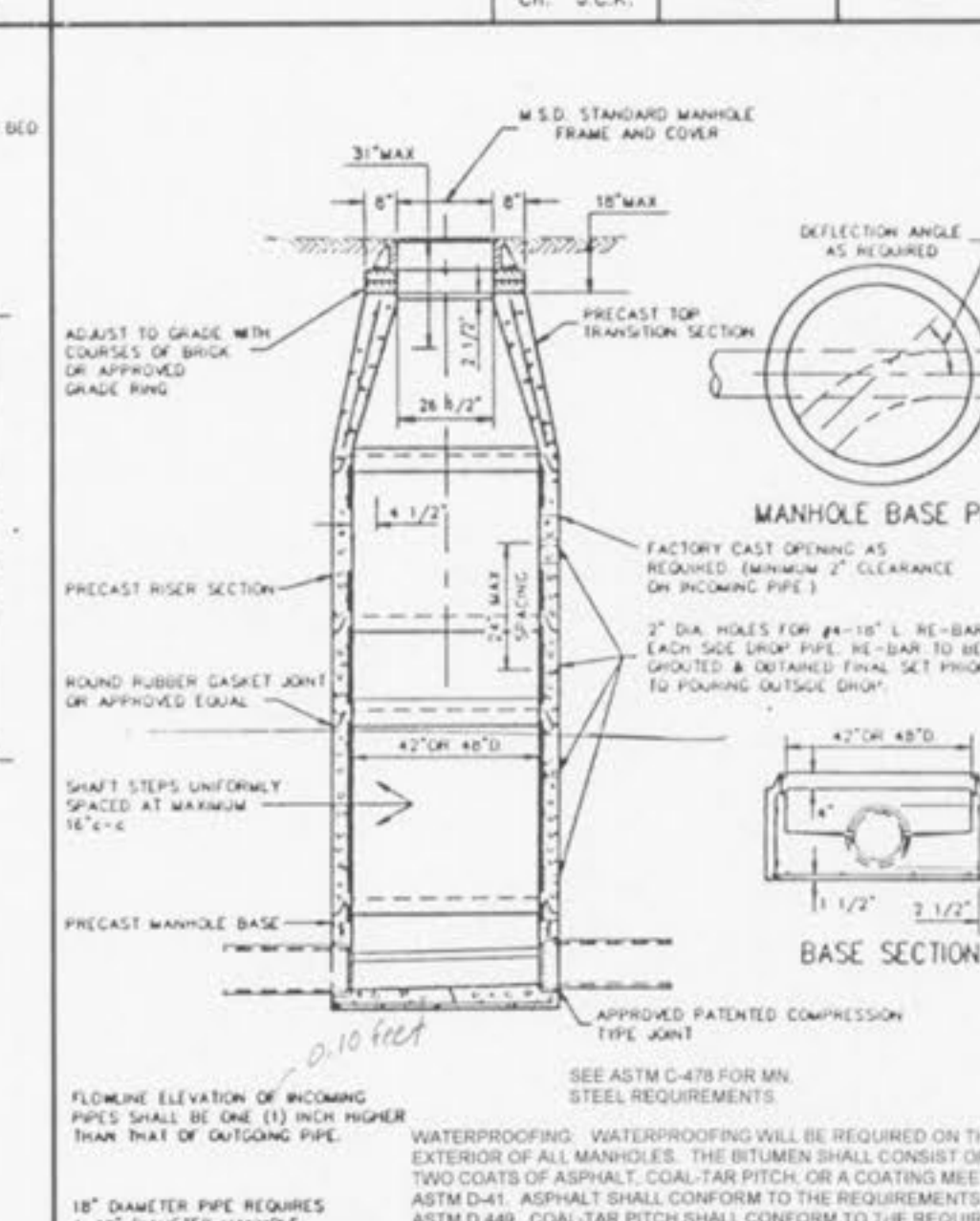
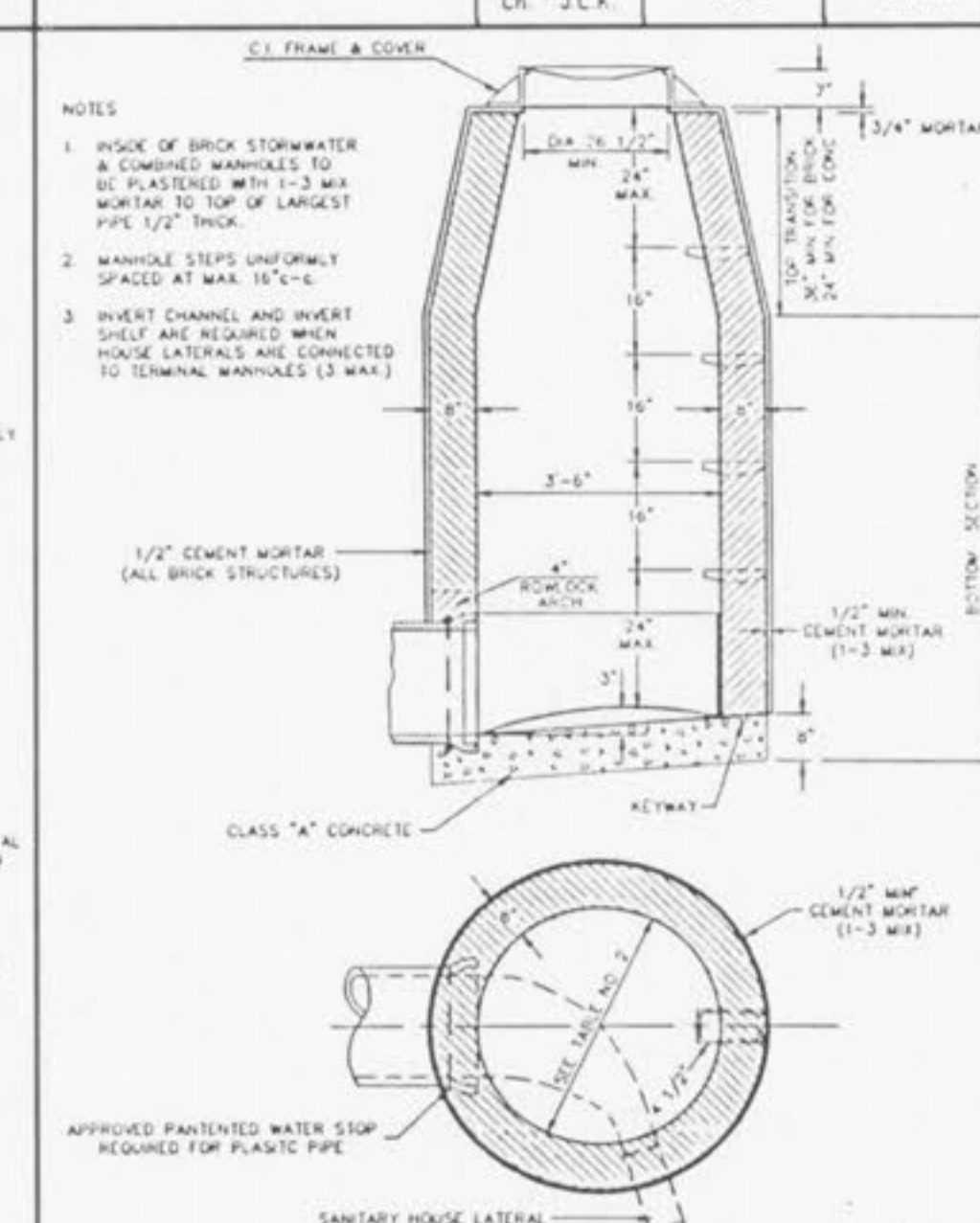
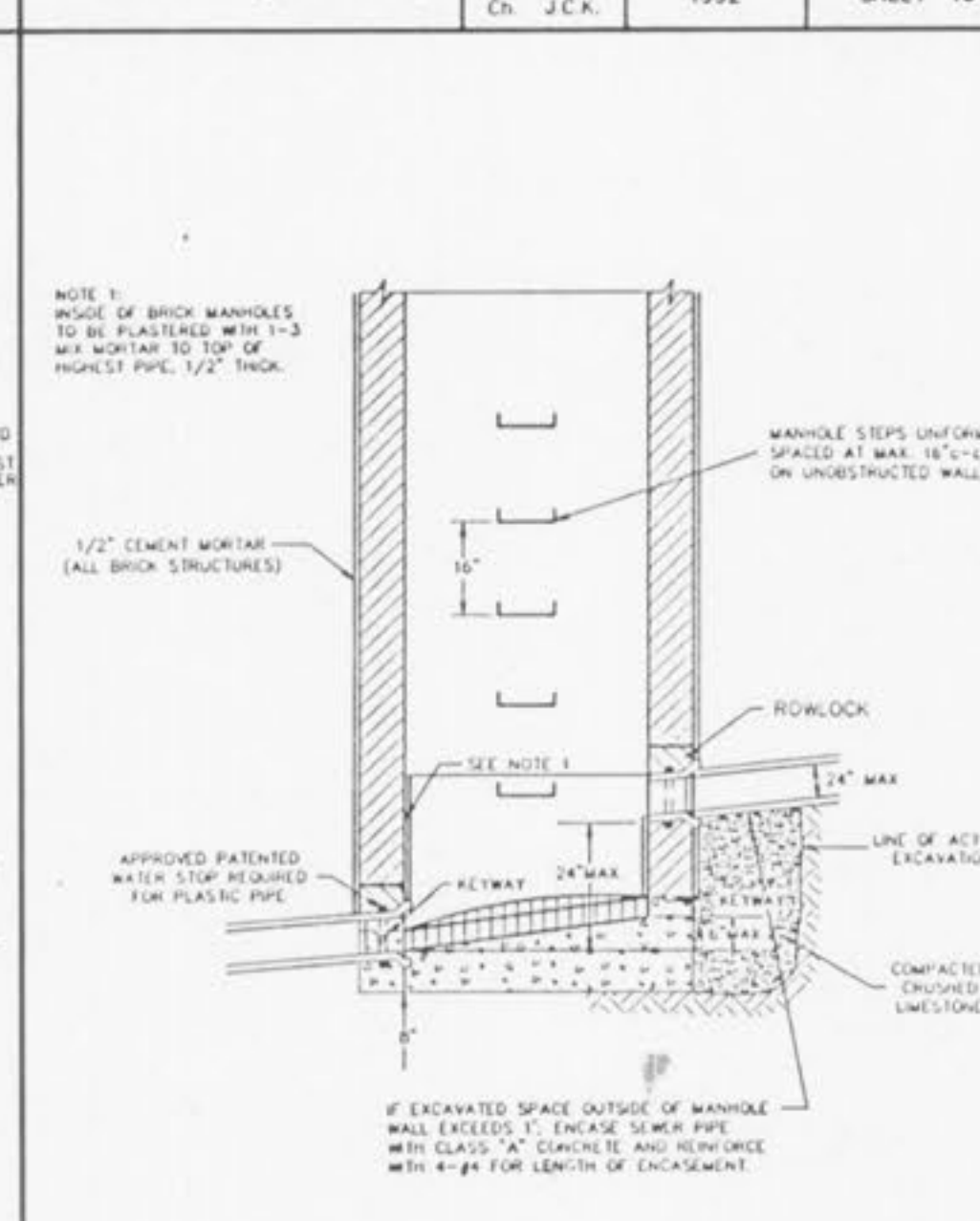
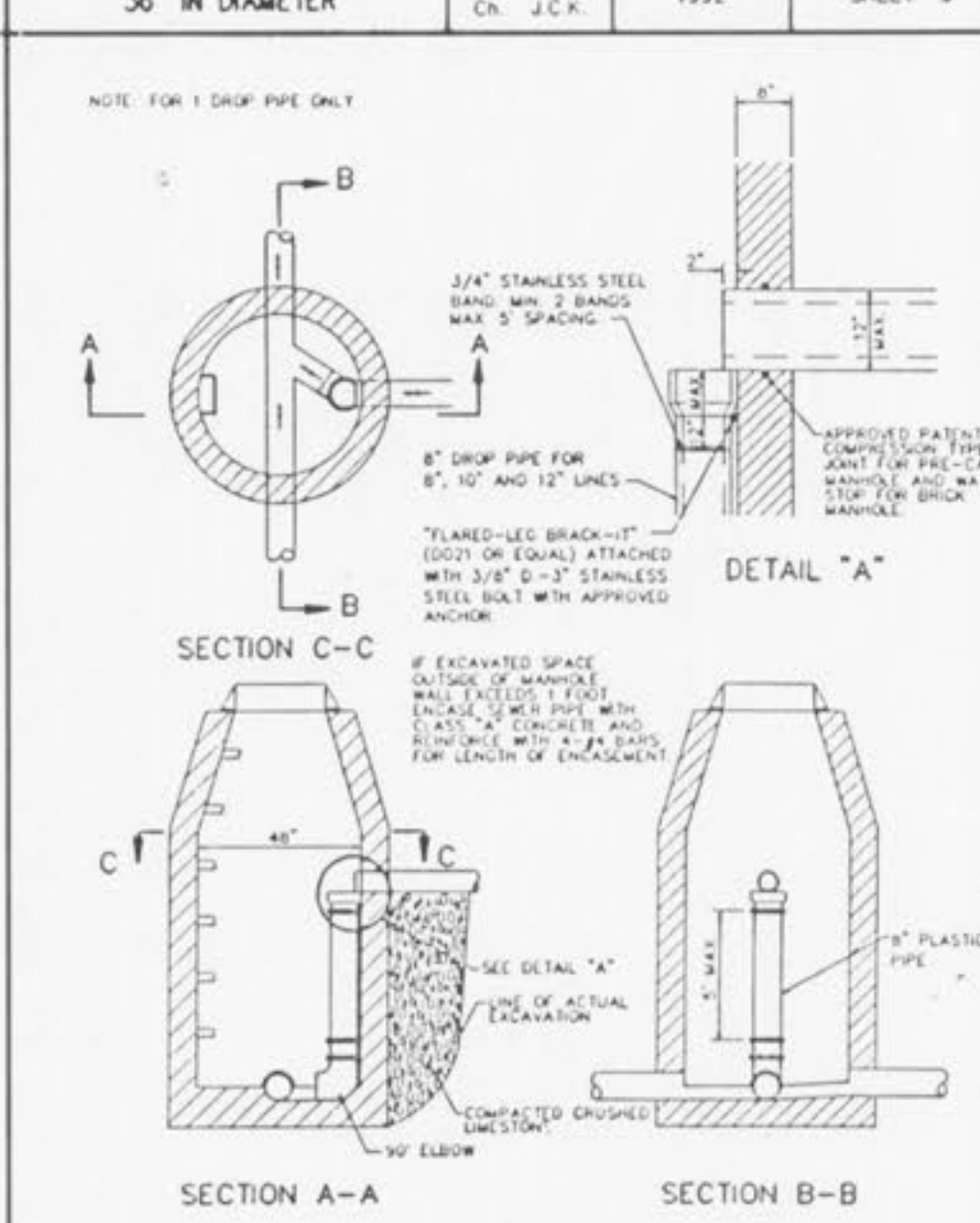
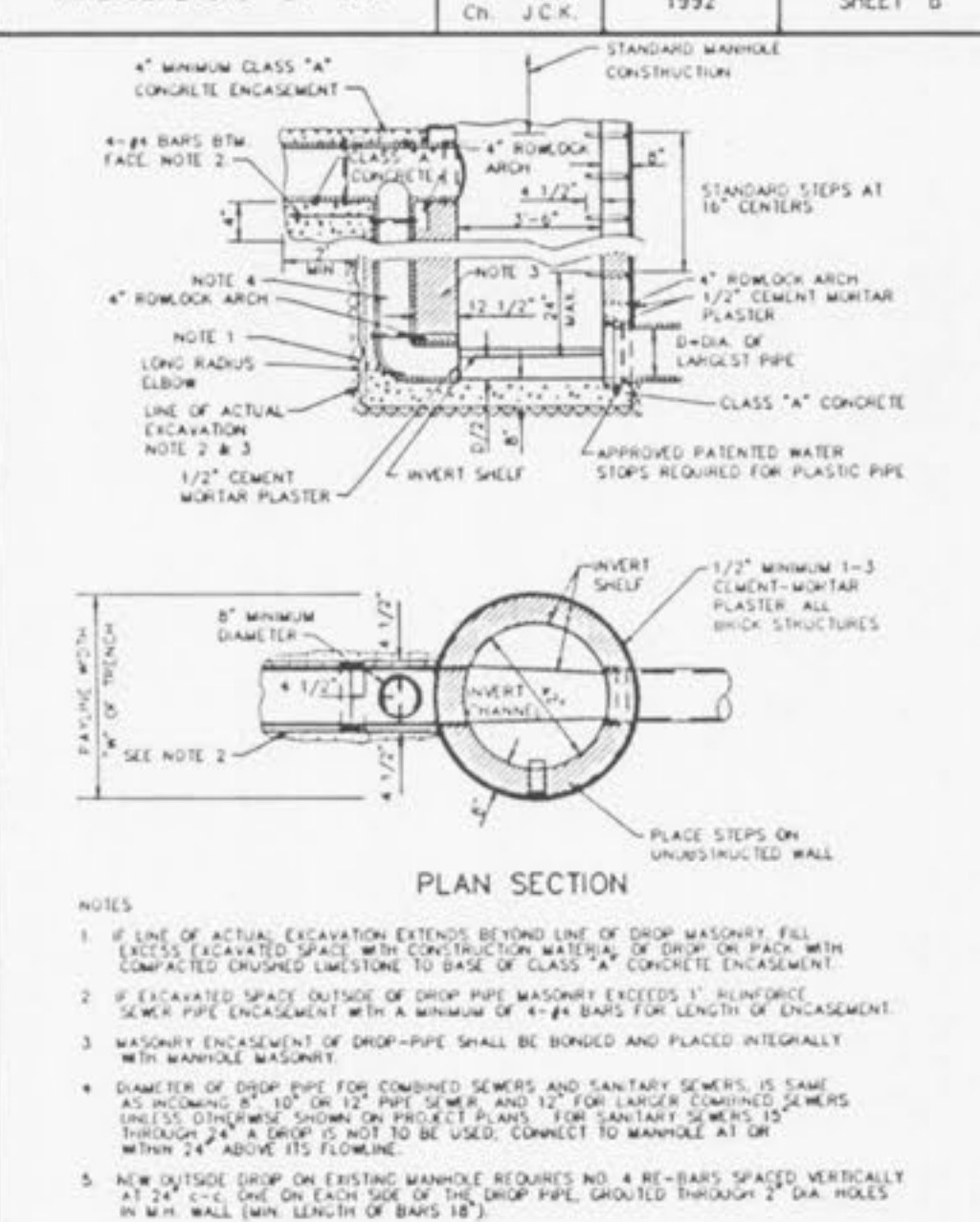
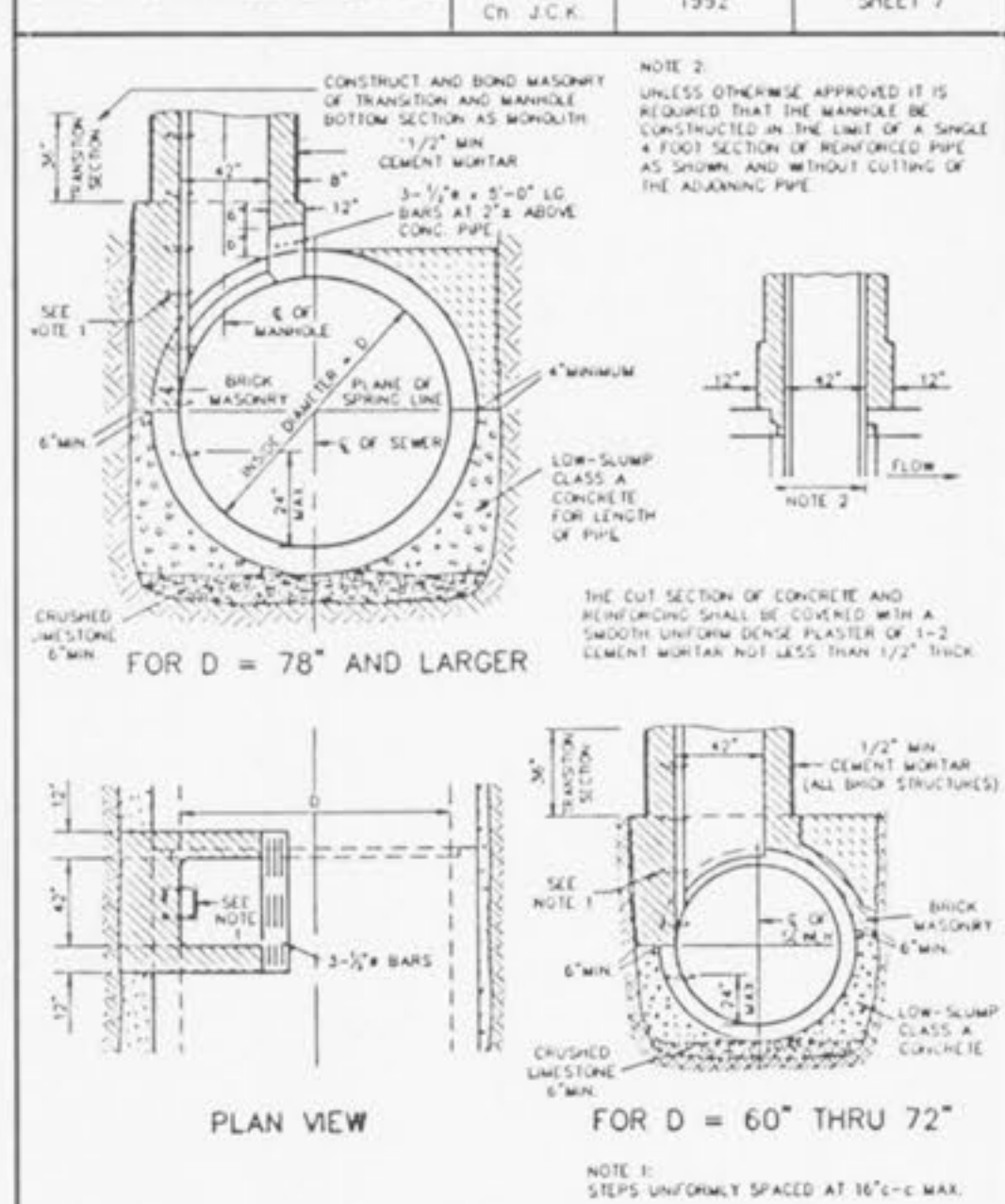
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