CONSTRUCTION DETAILS

MANPERLEY PLACE

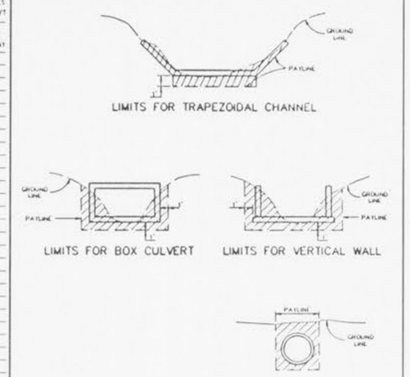
96-8609

10-31-96

ROUND PIPE				HORIZONTAL ELLIPTICAL PIPE			
INSIDE DIAMETER OF PIPE (INCHES)	"A" PAYLINE WIDTH OF TRENCH (INCHES)	"W" PAYLINE WIDTH OF TRENCH (FEET)	PAY-VOLUMES CU. FT. PER FT. CONCRETE ENCASEMENT	INSIDE DIMENSIONS OF PIPE (INCHES)	"A" PAYLINE WIDTH OF TRENCH (INCHES)	"W" PAYLINE WIDTH OF TRENCH (FEET)	PAY-VOLUMES CU. FT. PER FT. CONCRETE ENCASEMENT
8	30	2.50	3.28				
10	30	2.50	3.59				
12	30	2.50	3.87				
15	30	2.50	4.09				
18	30	2.50	4.25				
21	36	3.00	5.55				
24	36	3.00	5.77	14 x 23	41	3.42	5.94
27	78	3.25	8.61				
30	42	3.50	7.39	19 x 30	49	4.08	7.88
33	45	3.75	8.18	22 x 34	53	4.42	8.61
36	48	4.00	9.30	24 x 38	58	4.83	9.70
42	54	4.42	10.53	27 x 42	62	5.17	10.71
48	60	4.67	11.43	29 x 45	66	5.50	11.72
54	DISCONTINUED			32 x 49	71	5.92	13.14
60	72	5.25	13.38	34 x 53	75	6.25	14.05
66	78	5.83	15.67	38 x 60	83	6.92	16.18
72	84	6.42	18.15	43 x 68	92	7.67	18.81
78	90	7.00	20.73	48 x 76	101	8.42	21.59
84	96	7.58	23.45	53 x 83	109	9.08	24.35
90	102	8.17	26.37	58 x 91	118	9.83	27.45
96	108	8.75	29.39	63 x 98	126	10.50	30.50
102	114	9.33	32.57	68 x 106	135	11.25	33.91
108	120	9.92	35.90	72 x 113	143	11.92	36.93
114	126	10.50	39.37	77 x 121	152	12.67	40.69
120	132	11.08	42.99	82 x 128	160	13.33	44.45
126	138	11.67	46.75	87 x 136	168	14.00	47.79
132	144	12.25	50.66	92 x 143	176	14.67	51.70
138	150	12.83	54.72	97 x 151	185	15.42	56.01
144	156	13.42	58.92				
152	168	14.00	63.27	106 x 166	202	16.83	64.48
164	182	15.17	72.40	116 x 180	218	18.17	73.58

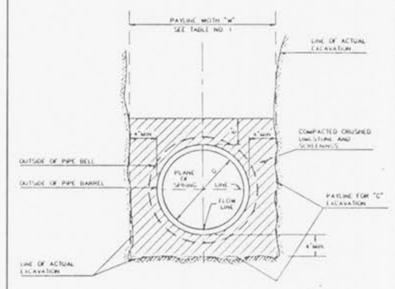
TABLE 1
PAYLINE WIDTHS OF TRENCH AND PAY-QUANTITIES OF CONCRETE

METROPOLITAN ST. LOUIS SEWER DISTRICT
Standard Details of Sewer Construction
Dr. B.E.B. | Ch. J.C.K. | 1992 | SHEET 1



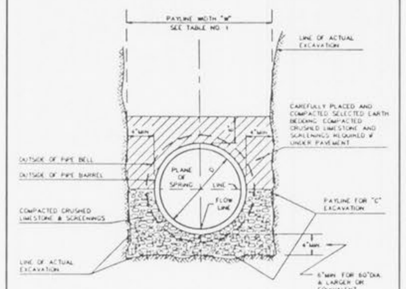
PAYLINE LIMITS FOR EXCAVATION

METROPOLITAN ST. LOUIS SEWER DISTRICT
Standard Details of Sewer Construction
Dr. W.S.H. | Ch. J.C.K. | 1992 | SHEET 2



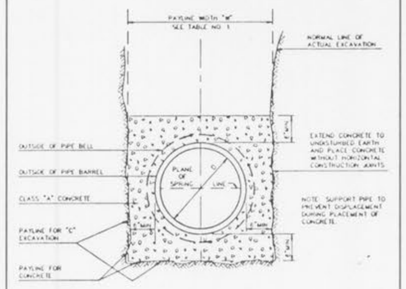
PIPE BEDDING CLASS "C" (FOR ALL PIPE EXCEPT REINFORCED CONCRETE PIPE)

METROPOLITAN ST. LOUIS SEWER DISTRICT
Standard Details of Sewer Construction
Dr. W.S.H. | Ch. J.C.K. | 1992 | SHEET 3



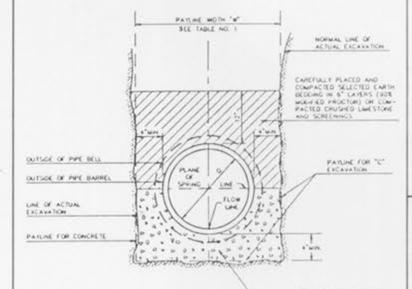
PIPE BEDDING CLASS "C" (MODIFIED FOR REINFORCED CONCRETE PIPE)

METROPOLITAN ST. LOUIS SEWER DISTRICT
Standard Details of Sewer Construction
Dr. W.S.H. | Ch. J.C.K. | 1992 | SHEET 4



CONCRETE ENCASEMENT

METROPOLITAN ST. LOUIS SEWER DISTRICT
Standard Details of Sewer Construction
Dr. W.S.H. | Ch. J.C.K. | 1992 | SHEET 5



(CLASS "A" BEDDING)

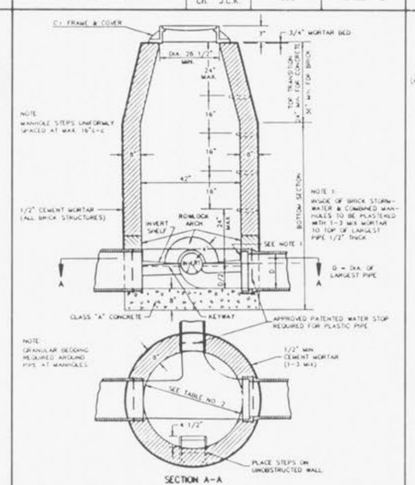
CONCRETE CRADLE

METROPOLITAN ST. LOUIS SEWER DISTRICT
Standard Details of Sewer Construction
Dr. W.S.H. | Ch. J.C.K. | 1992 | SHEET 6

SECTION OF MANHOLE		DIMENSION
TOP TRANSITION	UPPER	26 1/2" DIA.
	LOWER	42" DIA.
BOTTOM SECTION	8" THRU 24" DIA. PIPE	42" DIA.
BOTTOM SECTION	27" THRU 36" DIA. PIPE	42" SQUARE

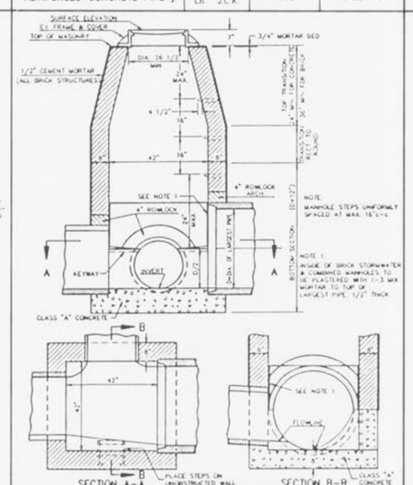
TABLE NO. 2
STANDARD MANHOLE DIMENSIONS

METROPOLITAN ST. LOUIS SEWER DISTRICT
Standard Details of Sewer Construction
Dr. W.S.H. | Ch. J.C.K. | 1992 | SHEET 7



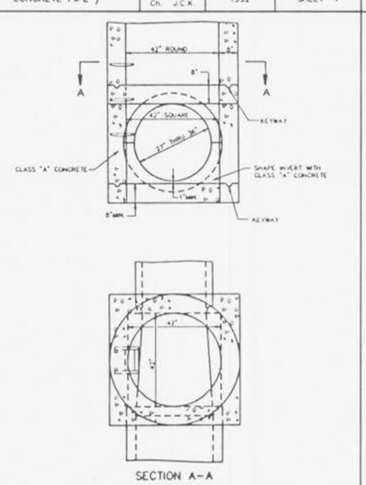
LINE MANHOLE PIPE SEWERS 8"-24" DIA.

METROPOLITAN ST. LOUIS SEWER DISTRICT
Standard Details of Sewer Construction
Dr. W.S.H. | Ch. J.C.K. | 1992 | SHEET 8



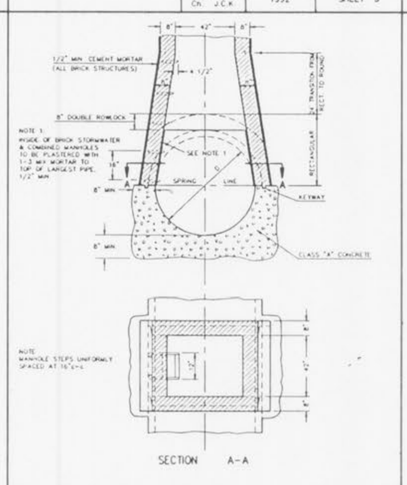
TYPICAL LINE MANHOLE ON PIPE SEWER 27" THRU 36" IN DIAMETER

METROPOLITAN ST. LOUIS SEWER DISTRICT
Standard Details of Sewer Construction
Dr. W.S.H. | Ch. J.C.K. | 1992 | SHEET 9



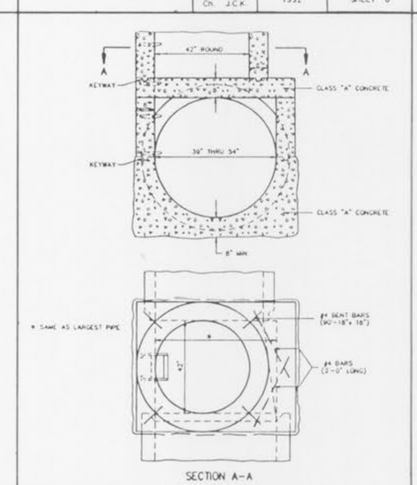
MANHOLE ON PIPE SEWER 27" THRU 36" (ALTERNATE)

METROPOLITAN ST. LOUIS SEWER DISTRICT
Standard Details of Sewer Construction
Dr. W.S.H. | Ch. J.C.K. | 1992 | SHEET 10



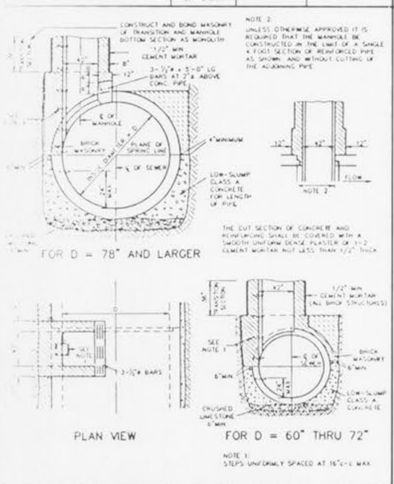
MANHOLE ON CONCRETE PIPE SEWERS 39" THRU 54" DIAMETER

METROPOLITAN ST. LOUIS SEWER DISTRICT
Standard Details of Sewer Construction
Dr. W.S.H. | Ch. J.C.K. | 1992 | SHEET 11



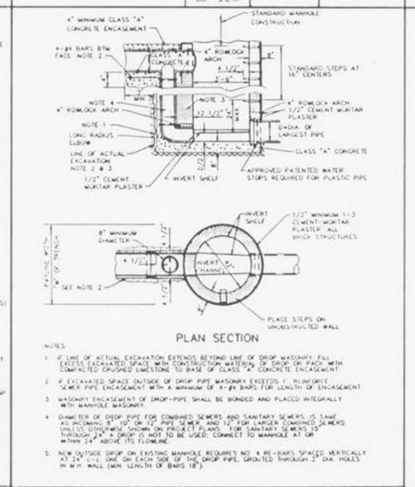
MANHOLE ON CONC. PIPE 39" THRU 54" (ALTERNATE)

METROPOLITAN ST. LOUIS SEWER DISTRICT
Standard Details of Sewer Construction
Dr. W.S.H. | Ch. J.C.K. | 1992 | SHEET 12



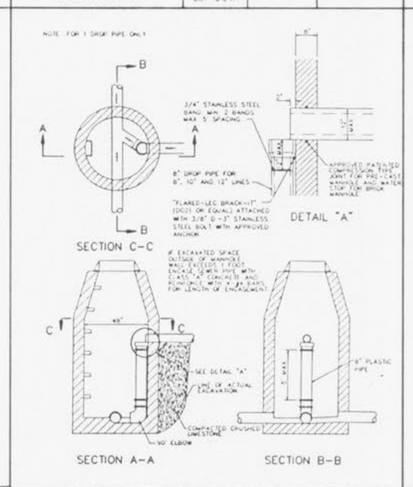
TYPICAL MANHOLE BASE REINFORCED CONCRETE PIPE SEWERS 60" AND LARGER IN DIAMETER

METROPOLITAN ST. LOUIS SEWER DISTRICT
Standard Details of Sewer Construction
Dr. W.S.H. | Ch. J.C.K. | 1992 | SHEET 13



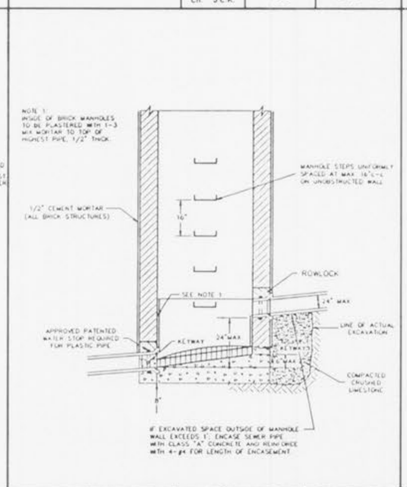
OUTSIDE FOULWATER DROP MANHOLE

METROPOLITAN ST. LOUIS SEWER DISTRICT
Standard Details of Sewer Construction
DR. R.G.W. | CH. J.C.K. | 1992 | SHEET 14



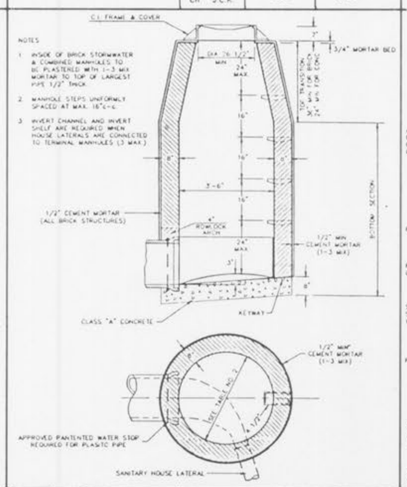
INSIDE FOULWATER DROP MANHOLE

METROPOLITAN ST. LOUIS SEWER DISTRICT
Standard Details of Sewer Construction
Dr. R.G.W. | Ch. J.C.K. | 1992 | SHEET 15



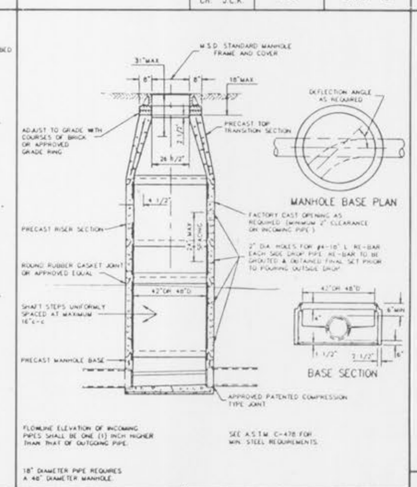
INSIDE FOULWATER DROP MANHOLE (FOR FREE-FALL)

METROPOLITAN ST. LOUIS SEWER DISTRICT
Standard Details of Sewer Construction
Dr. W.S.H. | Ch. J.C.K. | 1992 | SHEET 16



TERMINAL MANHOLE

METROPOLITAN ST. LOUIS SEWER DISTRICT
Standard Details of Sewer Construction
Dr. W.S.H. | Ch. J.C.K. | 1992 | SHEET 17



PRE-CAST CONCRETE MANHOLE FOR SEWERS 8" THROUGH 18"

METROPOLITAN ST. LOUIS SEWER DISTRICT
Standard Details of Sewer Construction
Dr. W.S.H. | Ch. J.C.K. | 1992 | SHEET 18

15/15