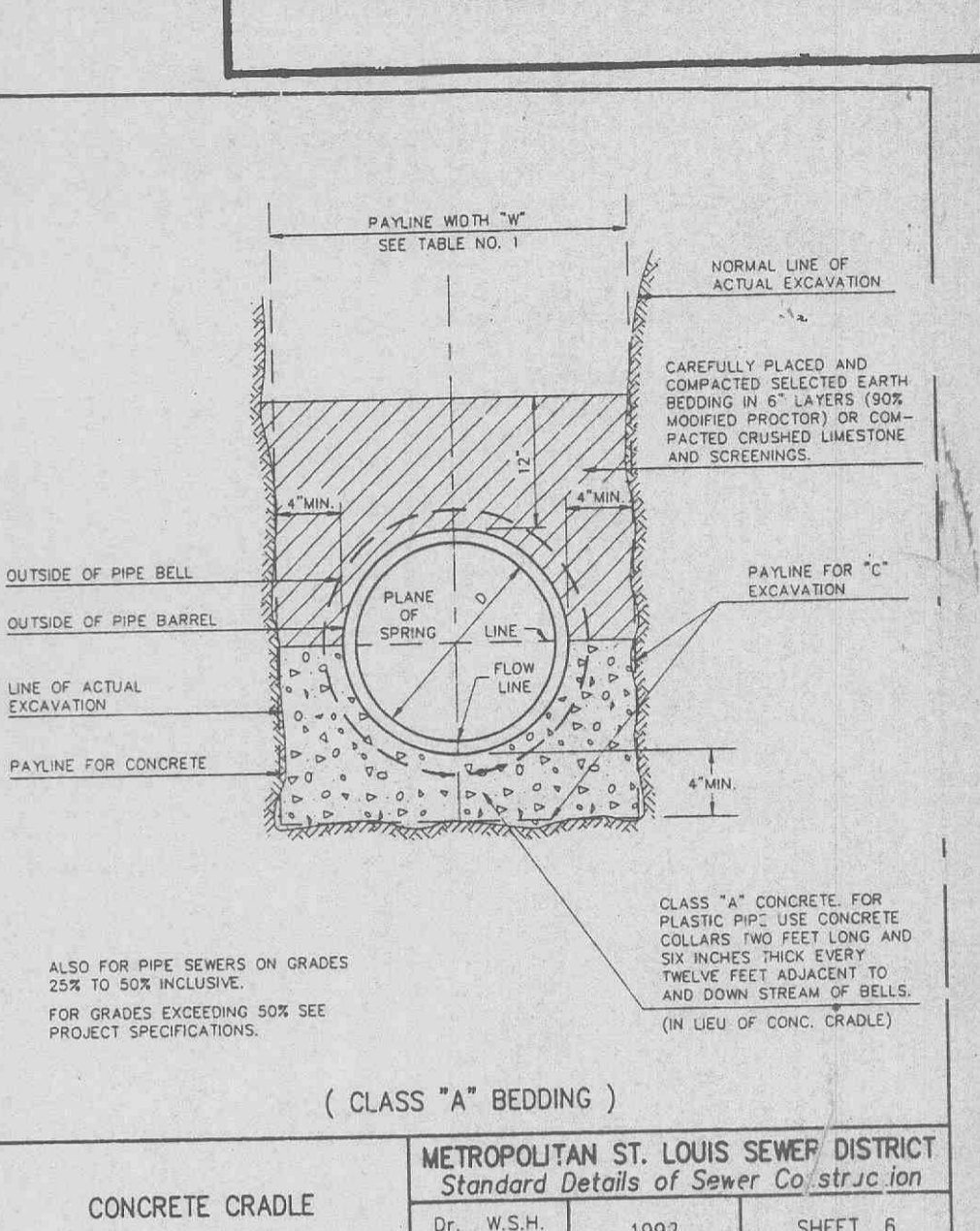
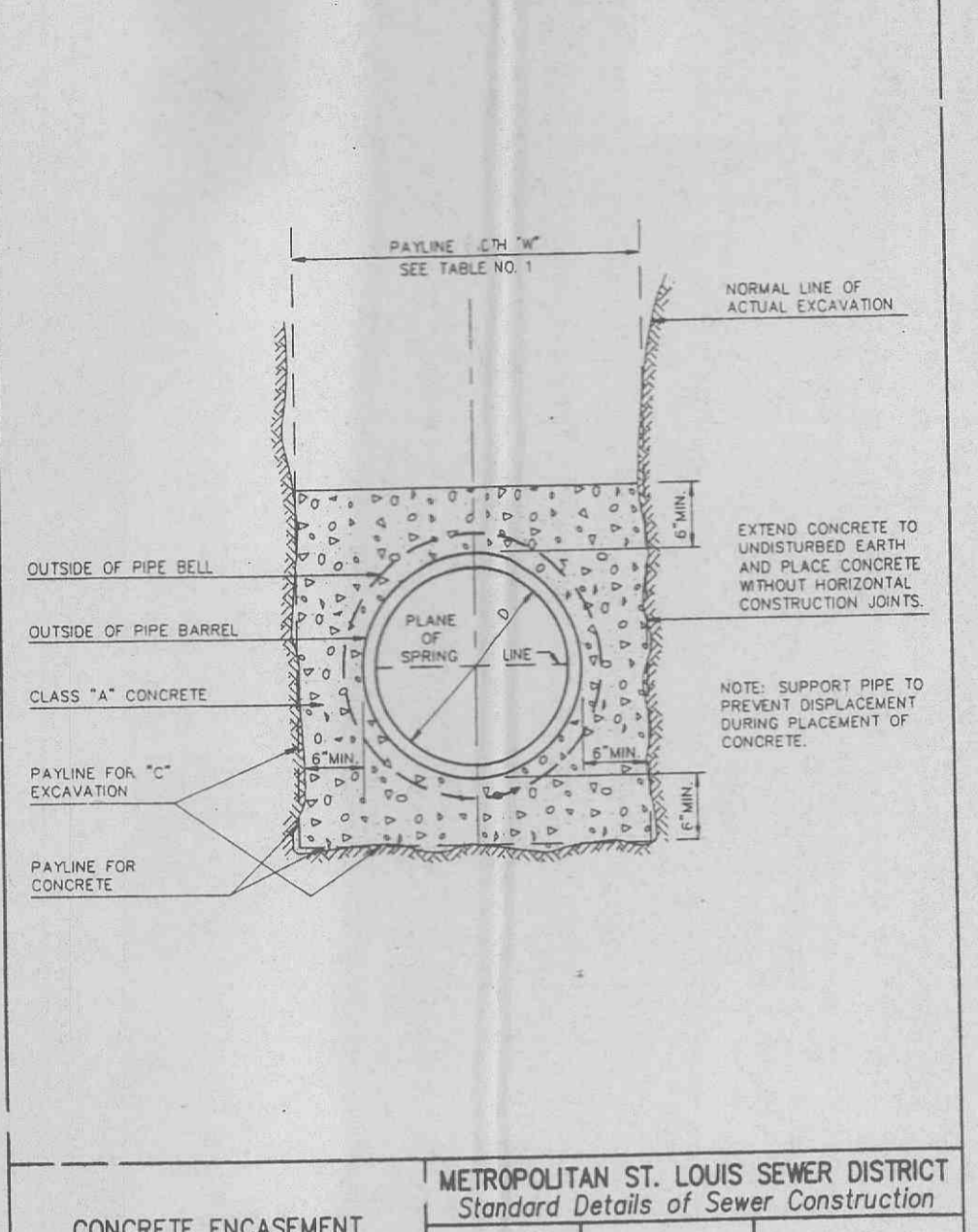
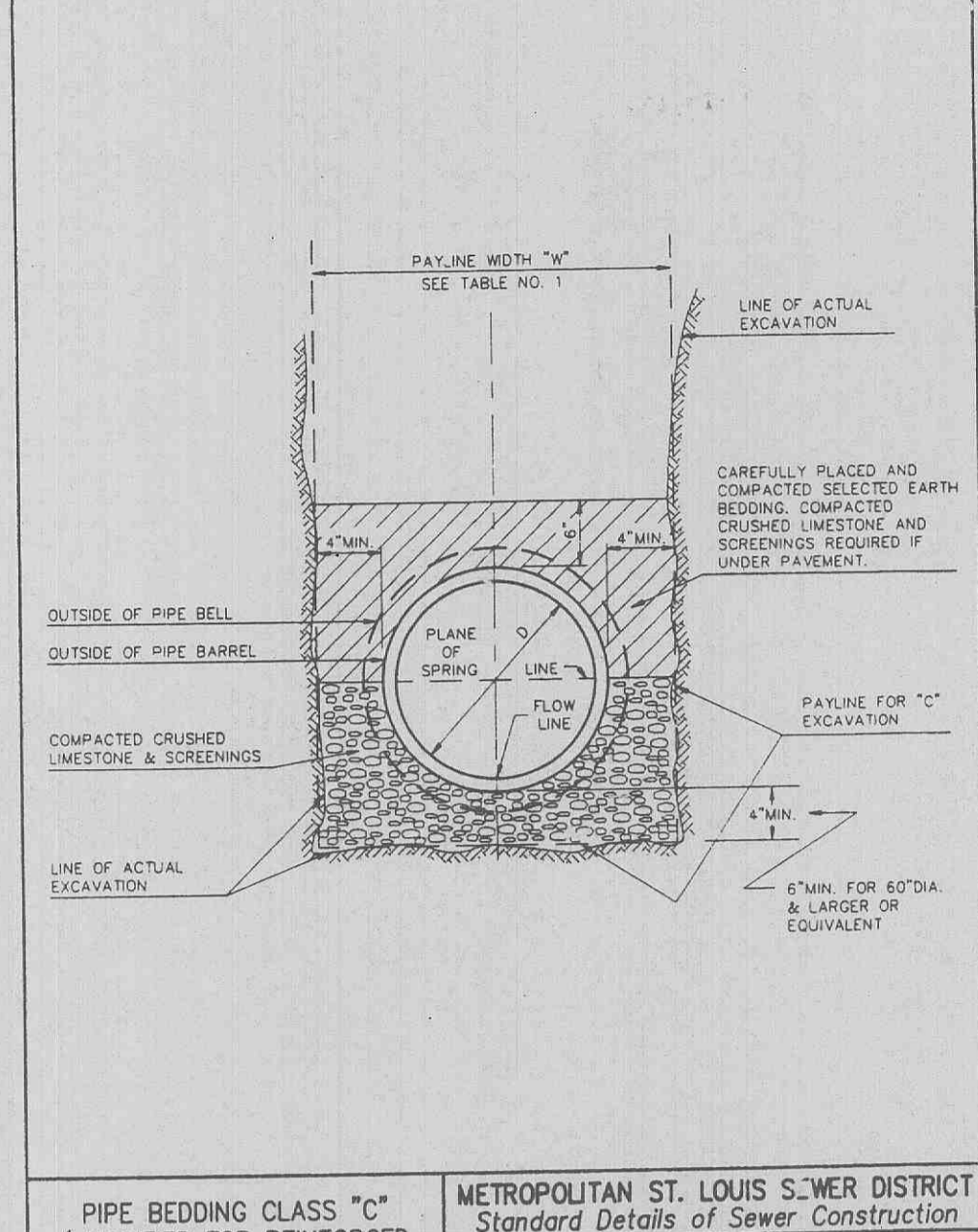
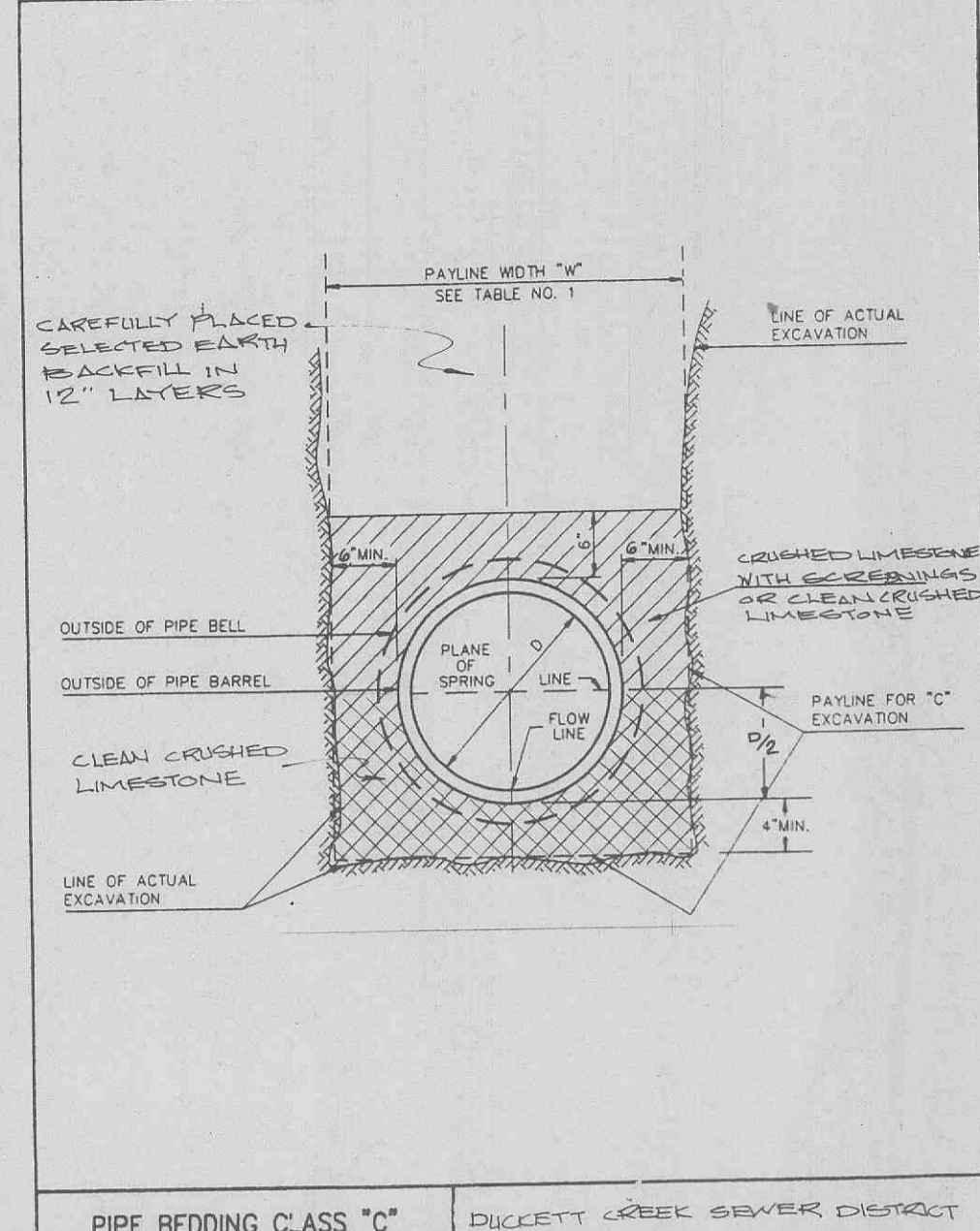
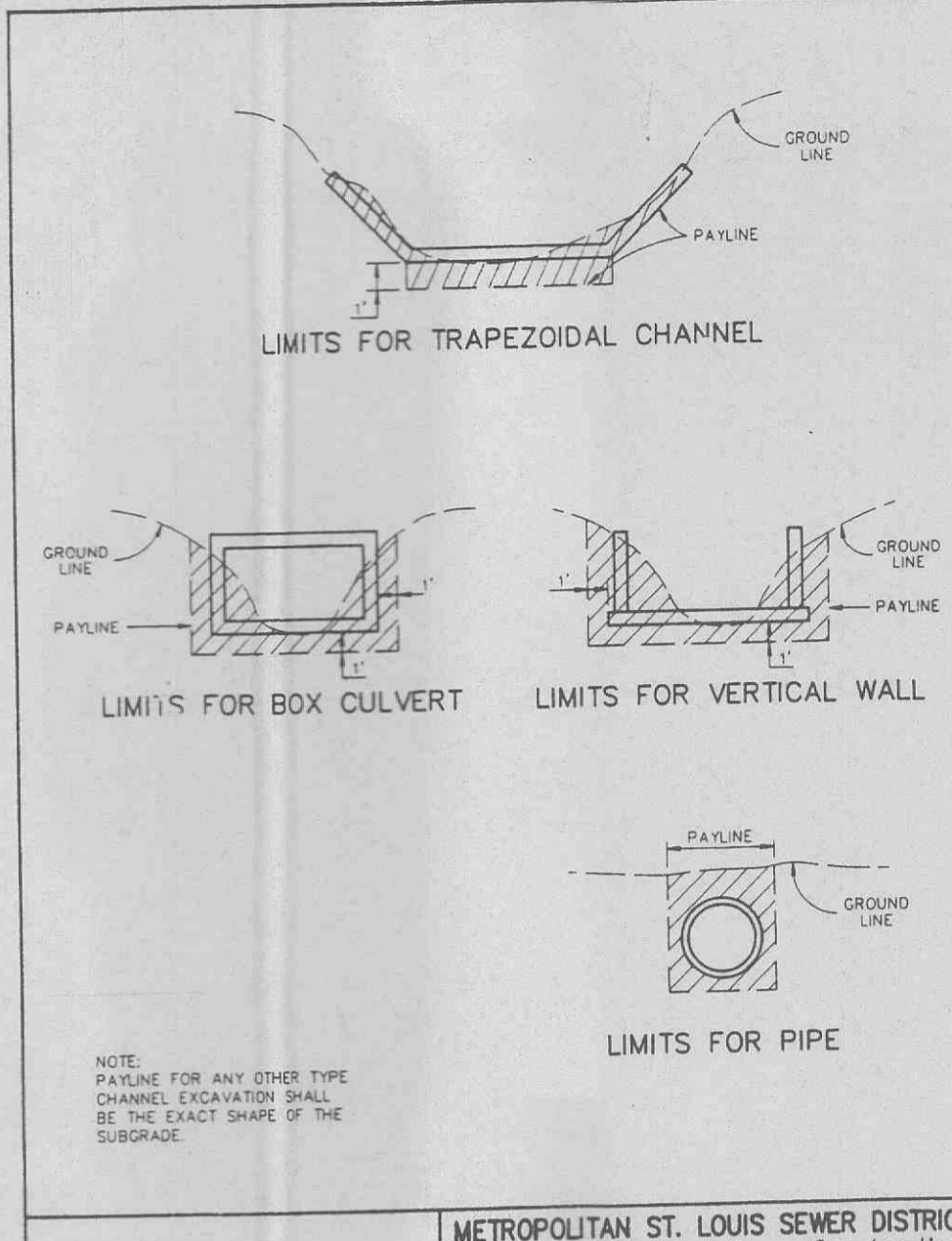


ROUND PIPE				HORIZONTAL ELLIPTICAL PIPE			
INSIDE DIAMETER OF PIPE (INCHES)	"W" PAYLINE WIDTH OF TRENCH (FEET)	"W" PAYLINE WIDTH OF TRENCH (FEET)	PAY-VOLUMES CU. FT. PER FT.	"W" PAYLINE WIDTH OF TRENCH (FEET)	"W" PAYLINE WIDTH OF TRENCH (FEET)	PAY-VOLUMES CU. FT. PER FT.	PAY-VOLUMES CU. FT. PER FT.
4	30	2.50	3.28				
6	30	2.50	3.59				
8	30	2.50	3.87				
10	30	2.50	4.09				
12	30	2.50	4.25				
15	36	3.00	5.55				
18	36	3.00	5.77	14 x 23	41	3.42	5.84
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	8.81
30	48	4.08	9.30	24 x 38	58	4.83	9.70
33	51	4.42	10.53	27 x 42	62	5.17	10.71
36	54	4.67	11.43	29 x 45	66	5.50	11.72
39	57	4.92	12.39	32 x 49	71	5.92	13.14
42	60	5.17	13.38	34 x 53	75	6.26	14.05
45	63	5.42	14.42	36 x 58	80	6.72	15.18
48	66	5.67	15.51	38 x 63	85	7.17	16.42
51	69	5.92	16.65	40 x 68	90	7.67	17.81
54	72	6.17	17.84	42 x 74	95	8.17	19.34
57	75	6.42	19.08	44 x 80	101	8.72	21.01
60	78	6.67	20.37	46 x 86	107	9.26	22.83
63	81	6.92	21.71	48 x 92	113	9.83	24.81
66	84	7.17	23.10	50 x 98	119	10.43	26.95
69	87	7.42	24.54	52 x 104	125	11.06	29.26
72	90	7.67	26.03	54 x 110	131	11.72	31.84
75	93	7.92	27.57	56 x 116	137	12.41	34.59
78	96	8.17	29.16	58 x 122	143	13.13	37.52
81	99	8.42	30.80	60 x 128	149	13.88	40.64
84	102	8.67	32.49	62 x 134	155	14.67	43.95
87	105	8.92	34.23	64 x 140	161	15.49	47.47
90	108	9.17	36.02	66 x 146	167	16.34	51.20
93	111	9.42	37.86	68 x 152	173	17.22	55.14
96	114	9.67	39.75	70 x 158	179	18.13	59.29
99	117	9.92	41.69	72 x 164	185	19.07	63.65
102	120	10.17	43.68	74 x 170	191	20.04	68.22
105	123	10.42	45.72	76 x 176	197	21.04	73.01
108	126	10.67	47.81	78 x 182	203	22.07	78.02
111	129	10.92	49.95	80 x 188	209	23.13	83.25
114	132	11.17	52.14	82 x 194	215	24.22	88.70
117	135	11.42	54.38	84 x 200	221	25.34	94.37
120	138	11.67	56.67	86 x 206	227	26.49	100.26
123	141	11.92	59.01	88 x 212	233	27.67	106.37
126	144	12.17	61.40	90 x 218	239	28.88	112.70
129	147	12.42	63.84	92 x 224	245	30.12	119.25
132	150	12.67	66.33	94 x 230	251	31.39	126.02
135	153	12.92	68.87	96 x 236	257	32.69	133.01
138	156	13.17	71.46	98 x 242	263	34.02	140.22
141	159	13.42	74.10	100 x 248	269	35.38	147.65
144	162	13.67	76.79	102 x 254	275	36.77	155.30
147	165	13.92	79.53	104 x 260	281	38.19	163.17
150	168	14.17	82.32	106 x 266	287	39.64	171.26
153	171	14.42	85.16	108 x 272	293	41.12	179.57
156	174	14.67	88.05	110 x 278	299	42.63	188.10
159	177	14.92	91.00	112 x 284	305	44.17	196.85
162	180	15.17	94.01	114 x 290	311	45.74	205.82

TABLE 1
PAYLINE WIDTHS OF TRENCH AND PAY-VOLUMES OF CONCRETE
METROPOLITAN ST. LOUIS SEWER DISTRICT
Standard Details of Sewer Construction
Dr. W.S.H. Ch. J.C.K. 1992 SHEET 1



CONSTRUCTION DETAILS

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

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

