

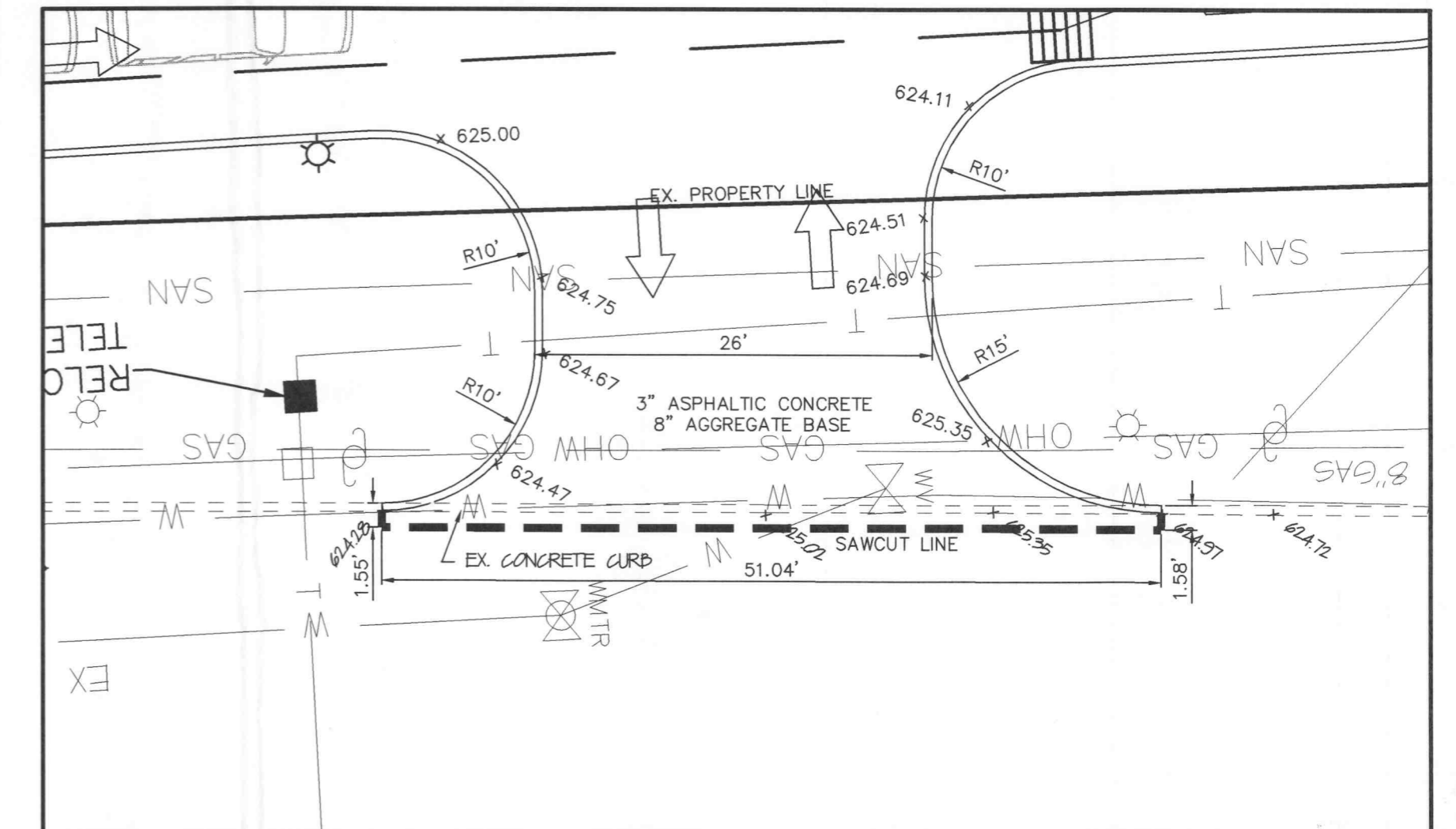
STORM SEWER PROFILES
SCALE: 1"=20' HORIZONTAL
1"=10' VERTICAL

HAX PROJECT NAME : Best Express Carwash
HAX PROJECT NO. : 03-12352
DESIGN DATE : 9-29-03
DESIGNED BY : ALJ

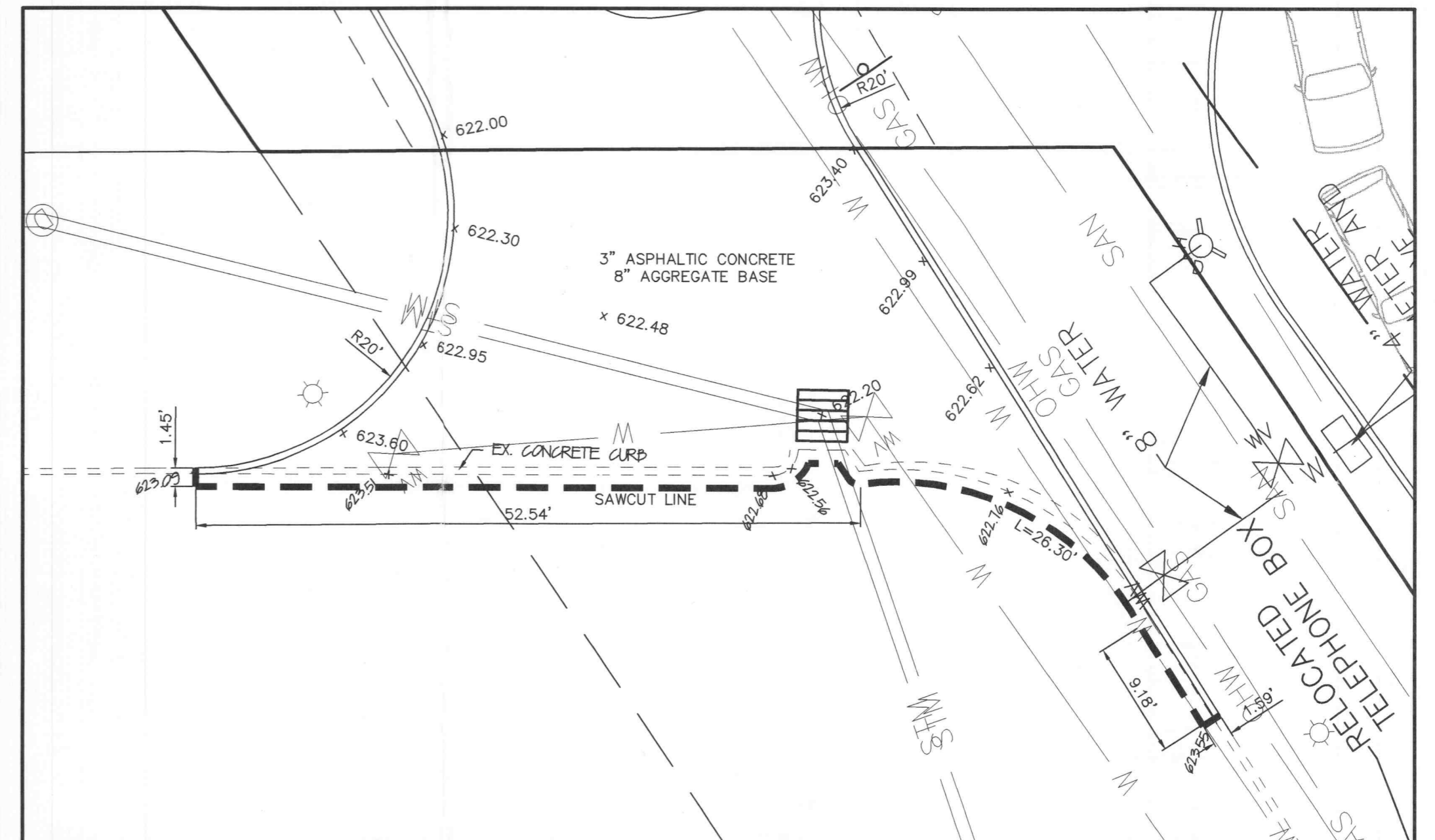
SUBMITTED: FILENAME: 12352

UPP STR	LOW STR	L	DIA	UPPER ST EL	LOWER ST EL	PS	UPPER HY GR	LOWER HY GR	FR HEAD	VEL	VEL HEAD	JUNC LOSS	TURN LOSS	CURVE LOSS	STR GRADE	INL CAP	DR AREA	PI	Q	TQ	PIPE CAP	REMARKS
GI 102	GI 101	158	12	620.97	619.38	1.00	624.00	2.69	621.31*	620.38	.00060	0.10	1.12	0.02	0.00	0.00	0.00	0.00	0.00	0.88	3.57	1
GI 101	EP 100	18	12	619.18	619.00	1.00	622.50	2.39	620.11	620.00	.00240	0.04	2.20	0.08	0.07	0.00	0.00	0.00	0.00	1.73	3.56	2

* INDICATES CRITICAL DEPTH



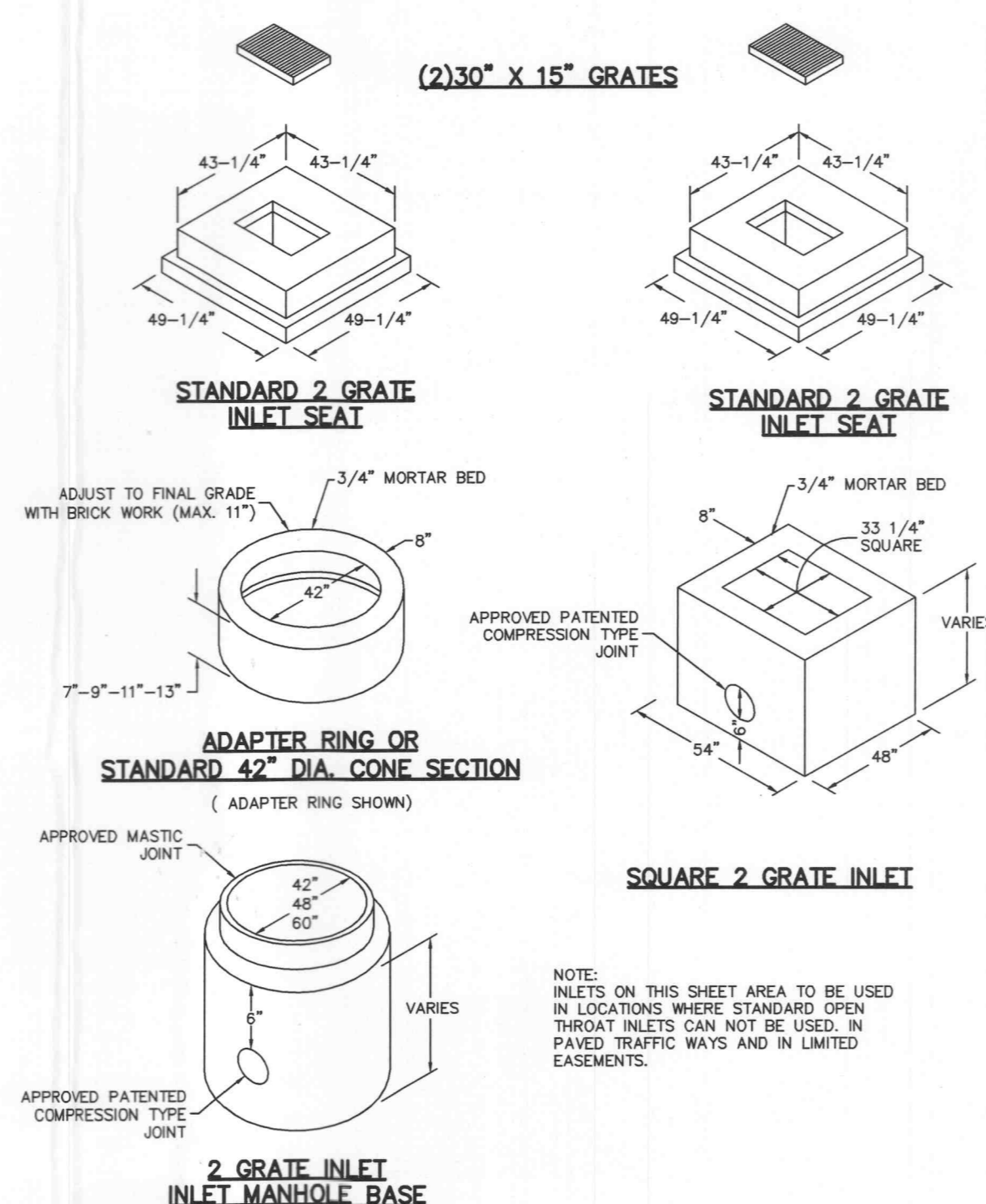
ENTRANCE DETAIL NO. 1
SCALE: 1" = 10'
NOTE: ALL SPOTS ARE TO TOP OF PAVEMENT



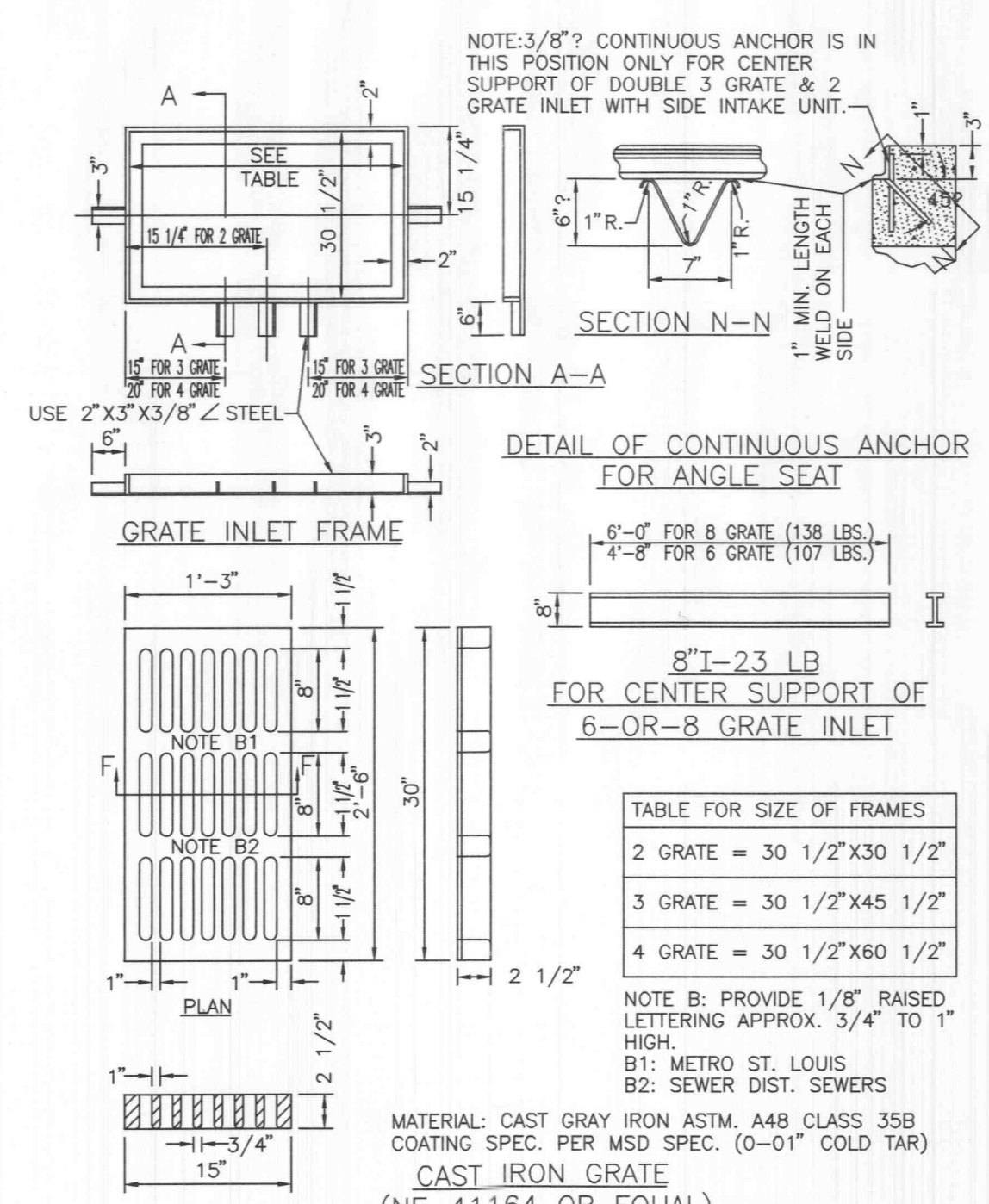
ENTRANCE DETAIL NO. 2
SCALE: 1" = 10'
NOTE: ALL SPOTS ARE TO TOP OF PAVEMENT

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. of 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. of 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

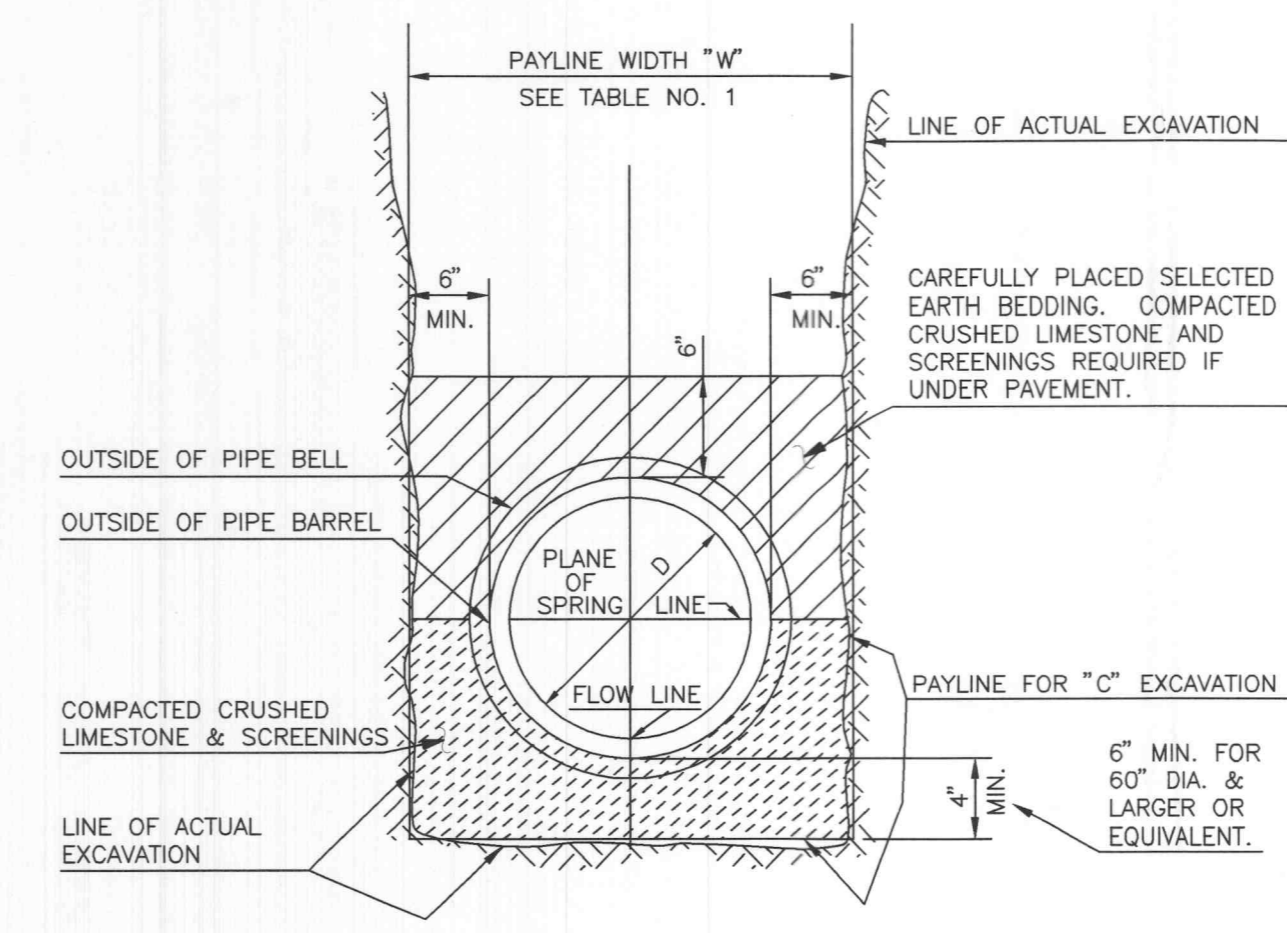
TABLE NO. 1
PAYLINE WIDTHS OF TRENCH AND
PAY-QUANTITIES OF CONCRETE



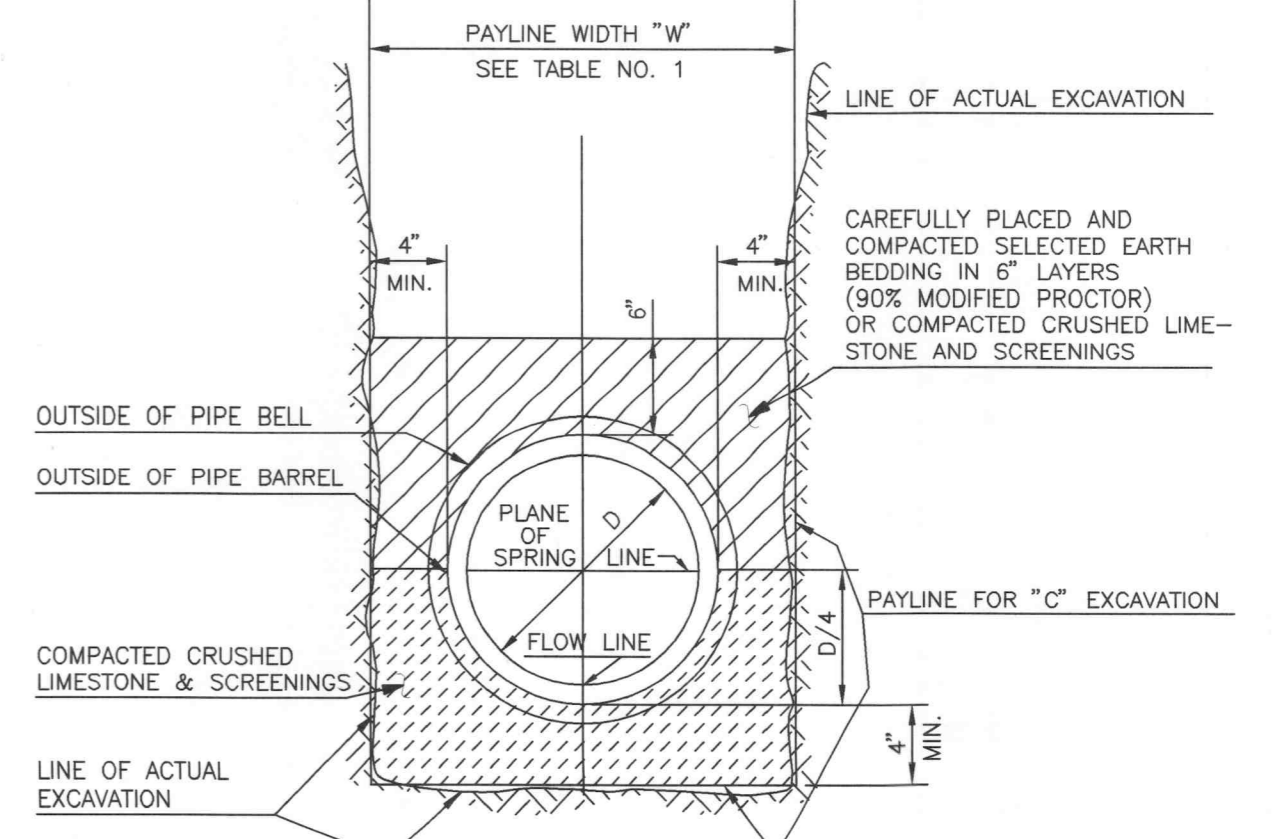
2 GRATE INLETS
PRECAST CONCRETE
NOT TO SCALE



DETAILS OF INLET
FRAME AND GRATES



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



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