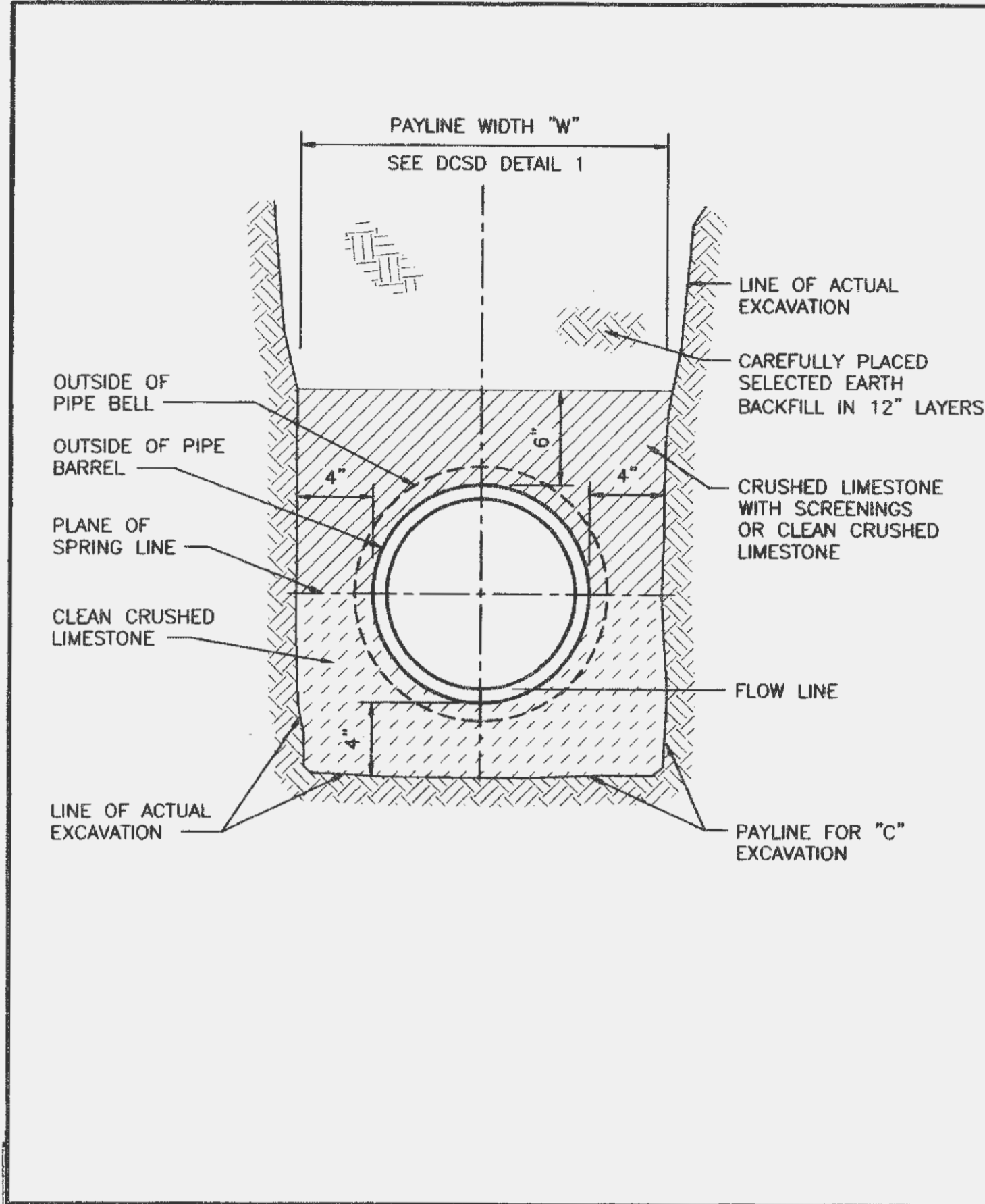


ROUND PIPE				HORIZONTAL ELLIPTICAL PIPE			
INSIDE DIAMETER OF PIPE (INCHES)	"W" PAYLINE WIDTH OF TRENCH (INCHES)	"W" PAYLINE WIDTH OF TRENCH (FEET)	PAY-VOLUMES CU. FT. PER FT. CONCRETE ENCASEMENT	INSIDE DIAMETER OF PIPE (INCHES)	"W" PAYLINE WIDTH OF TRENCH (INCHES)	"W" PAYLINE WIDTH OF TRENCH (FEET)	PAY-VOLUMES CU. FT. PER FT. CONCRETE ENCASEMENT
4	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	5.94
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

DUCKETT CREEK SANITARY DISTRICT

PAYLINE WIDTHS OF TRENCH AND PAY-QUANTITIES OF CONCRETE

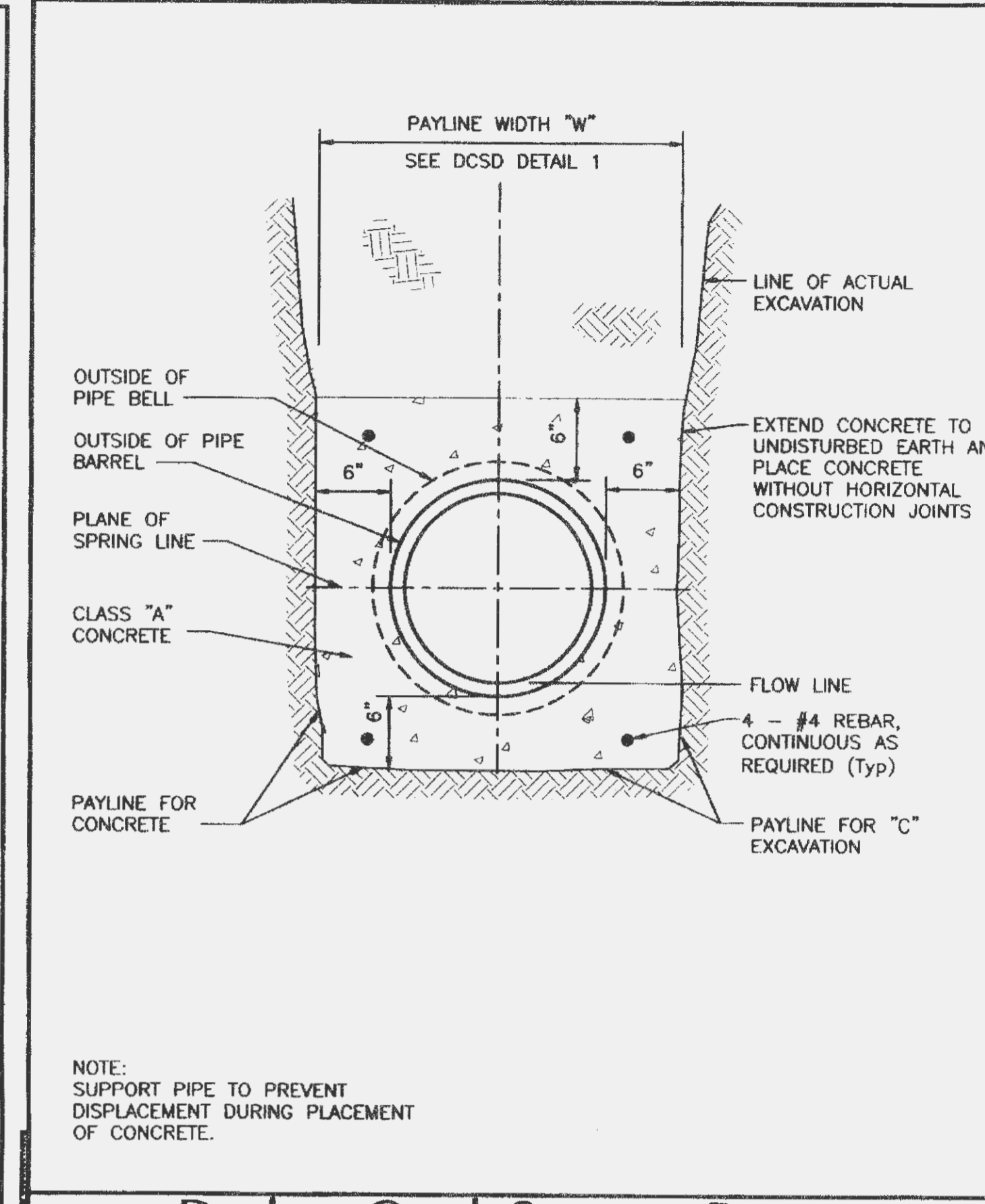
Drawn By: BSM App By: KLA Detail No. 1
 Ckd By: MDOB Date: 12-21-99



DUCKETT CREEK SANITARY DISTRICT

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

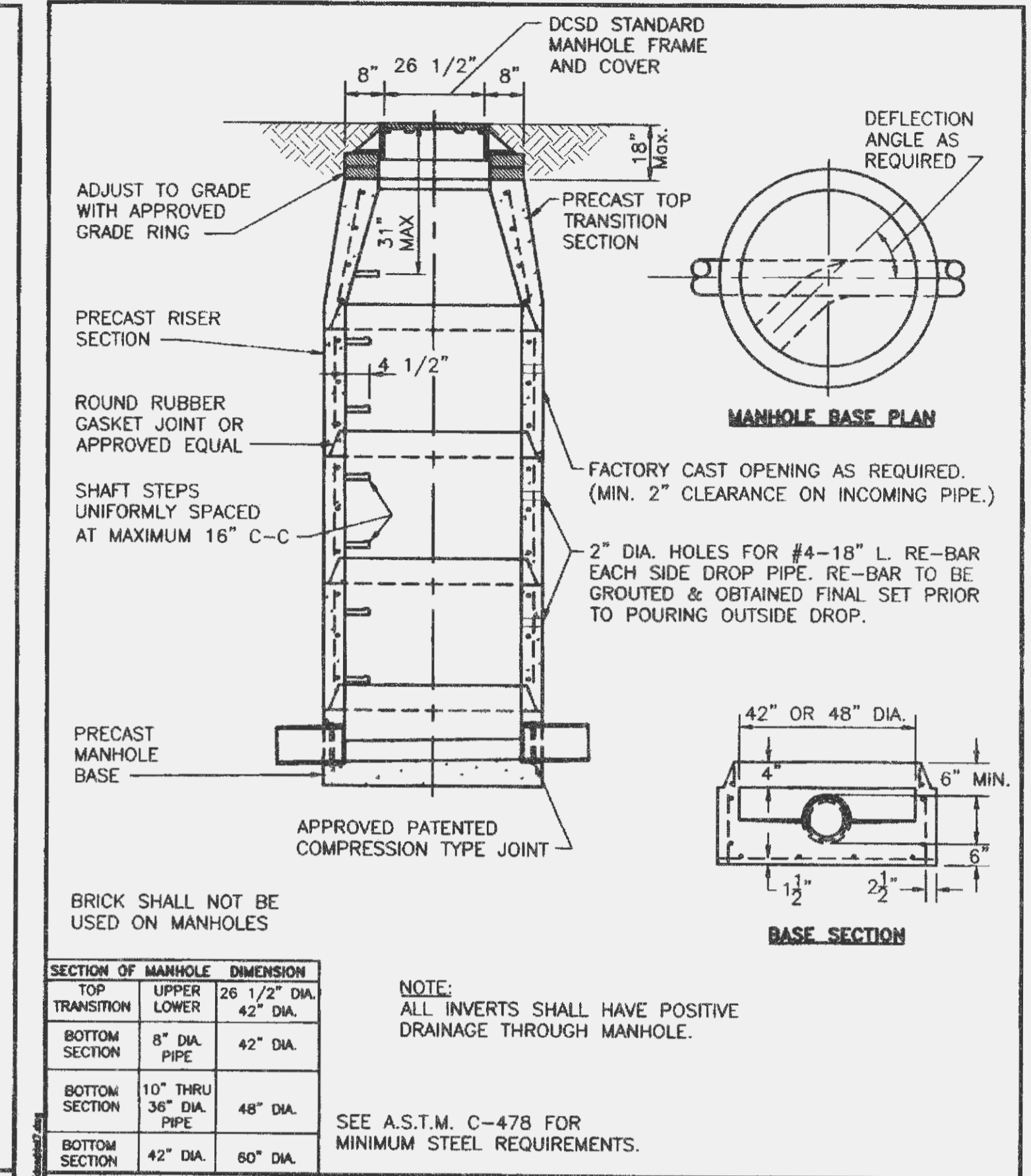
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 Ckd By: MDOB Date: 12-21-99



DUCKETT CREEK SANITARY DISTRICT

TYPICAL CONCRETE ENCASEMENT

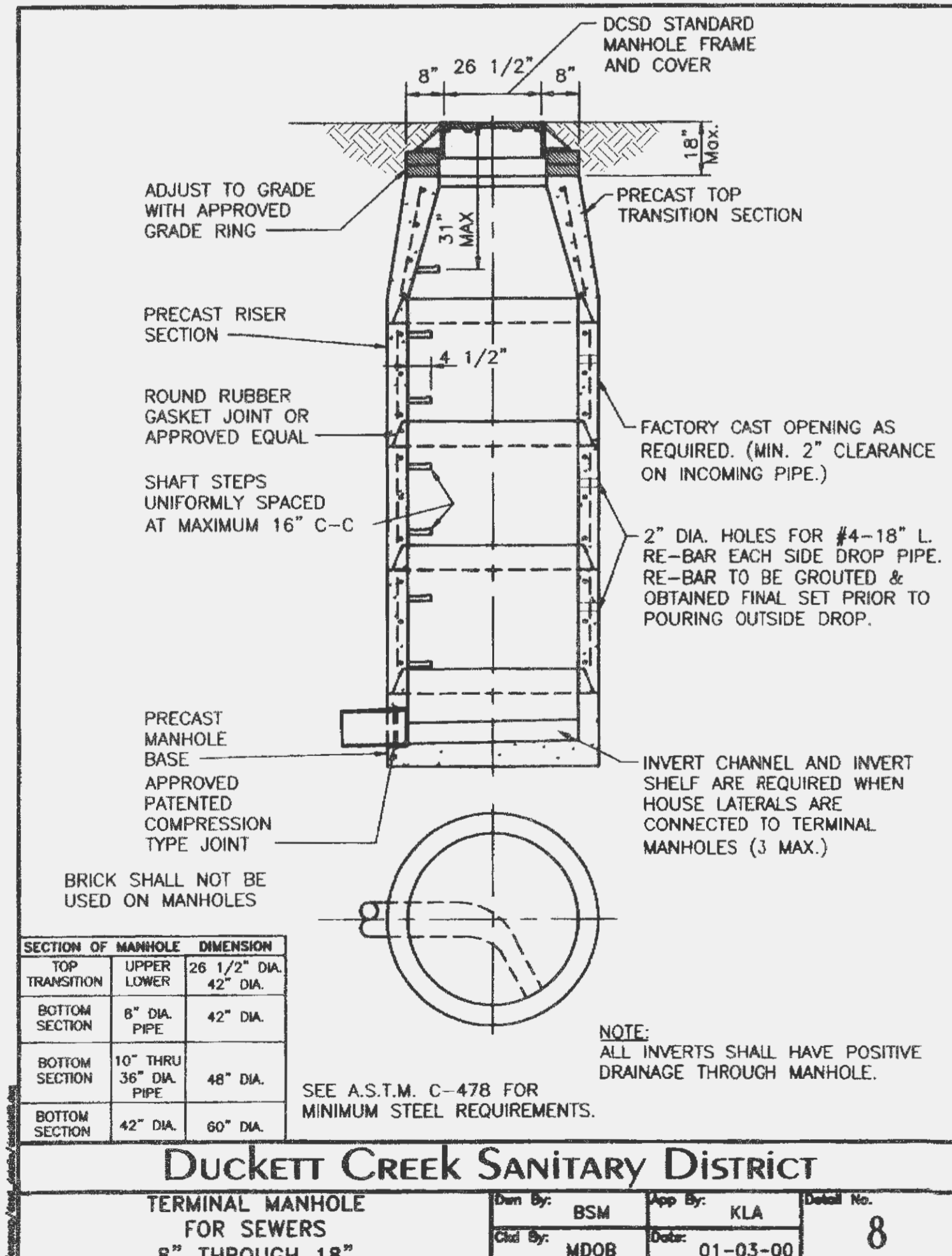
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 Ckd By: MDOB Date: 12-21-99



DUCKETT CREEK SANITARY DISTRICT

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

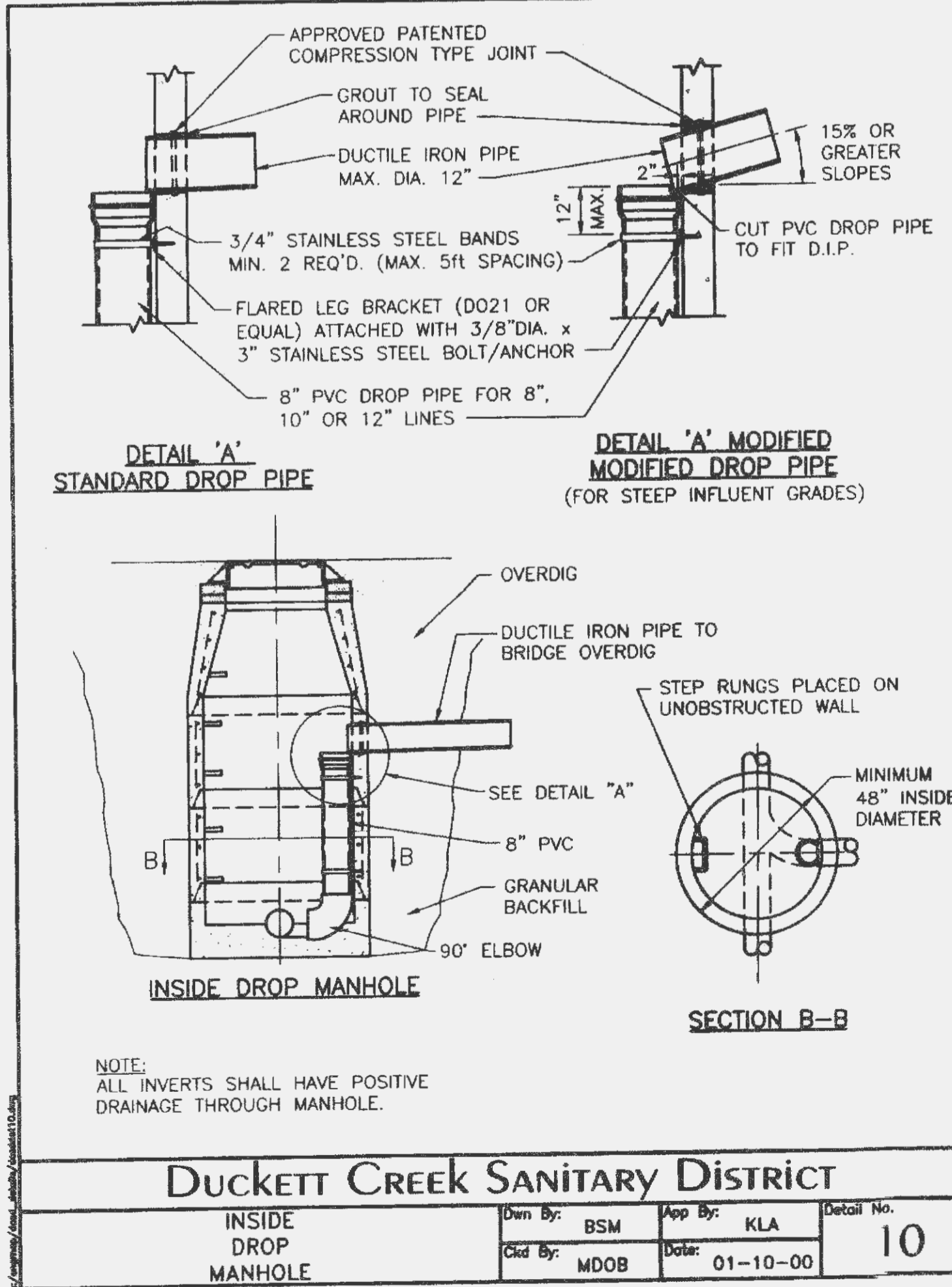
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DUCKETT CREEK SANITARY DISTRICT

TERMINAL MANHOLE FOR SEWERS 8" THROUGH 18"

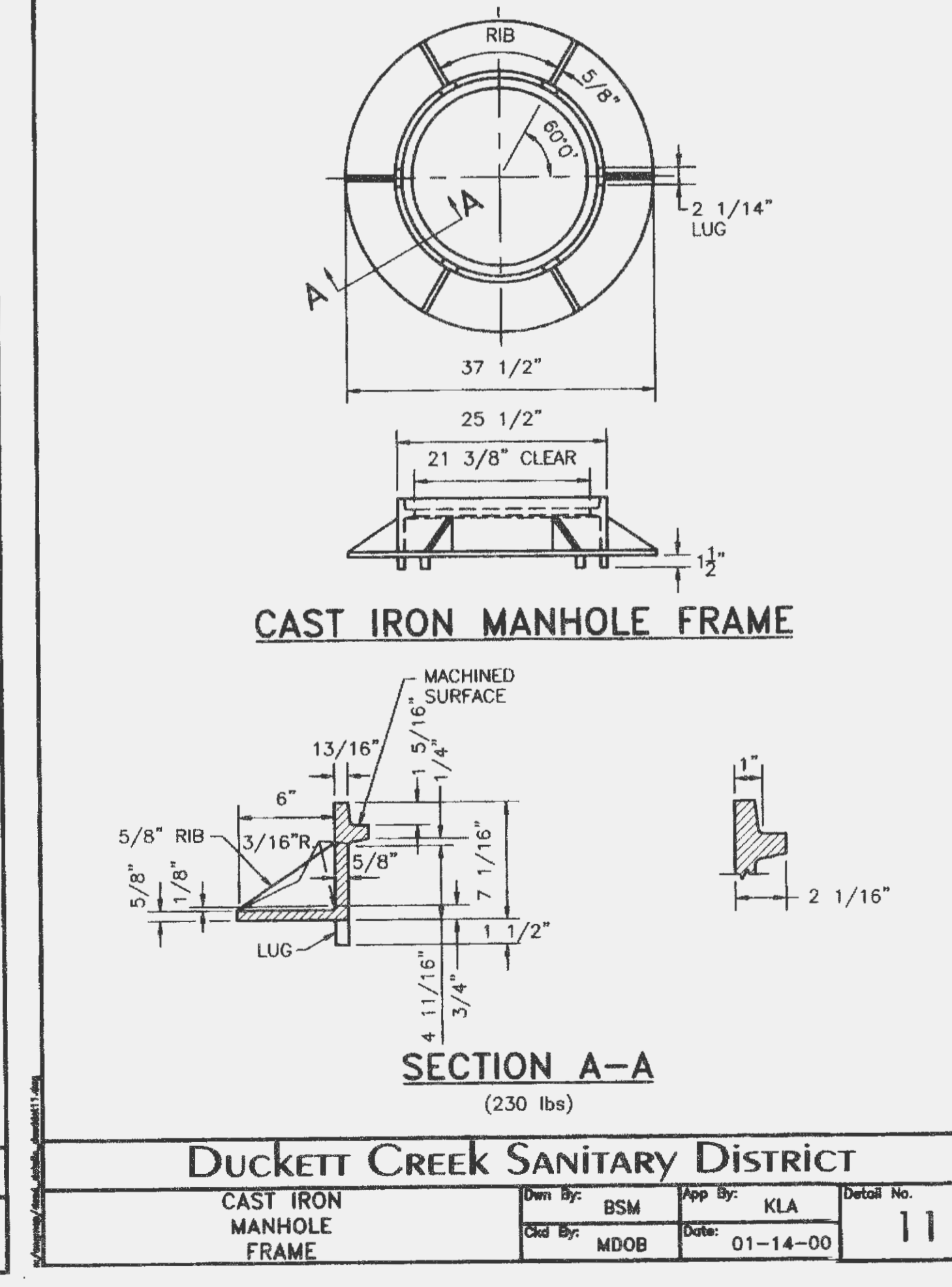
Drawn By: BSM App By: KLA Detail No. 8
 Ckd By: MDOB Date: 01-03-00



DUCKETT CREEK SANITARY DISTRICT

INSIDE DROP MANHOLE

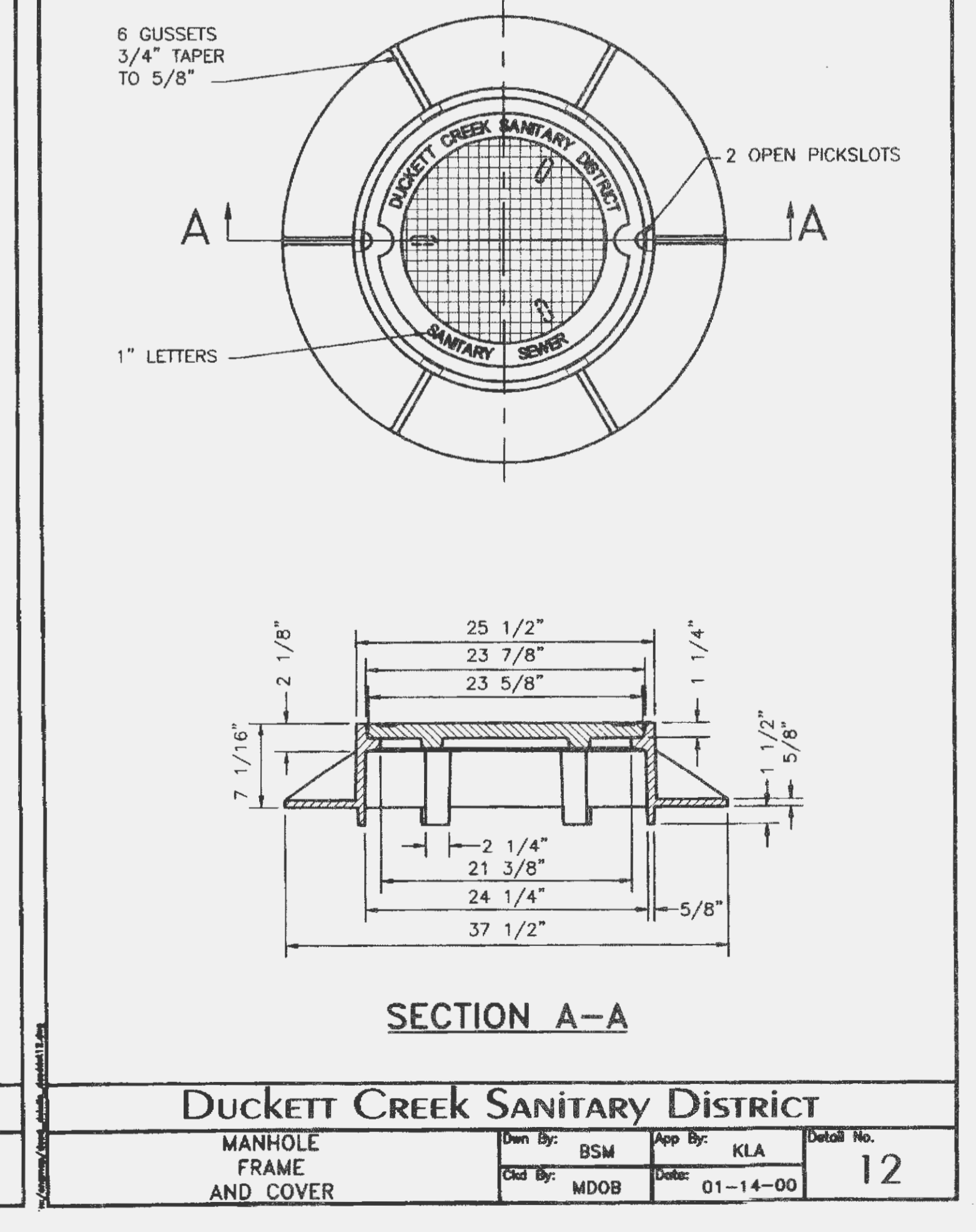
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 Ckd By: MDOB Date: 01-10-00



DUCKETT CREEK SANITARY DISTRICT

CAST IRON MANHOLE FRAME

Drawn By: BSM App By: KLA Detail No. 11
 Ckd By: MDOB Date: 01-14-00



DUCKETT CREEK SANITARY DISTRICT

MANHOLE FRAME AND COVER

Drawn By: BSM App By: KLA Detail No. 12
 Ckd By: MDOB Date: 01-14-00

UNDERGROUND UTILITIES HAVE BEEN PLOTTED FROM AVAILABLE INFORMATION AND THEREFORE THEIR LOCATIONS SHALL BE CONSIDERED APPROXIMATE ONLY. THE VERIFICATION OF THE LOCATION OF ALL UNDERGROUND UTILITIES, EITHER SHOWN OR NOT SHOWN ON THESE PLANS SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR, AND SHALL BE LOCATED PRIOR TO ANY GRADING OR CONSTRUCTION OF THE IMPROVEMENTS.

E:\DWG\12000PLUS\12453 SE FEISE AND BRYAN PRELIM\12453pre.dwg, plot grading detail(12453) #5, 4/16/2004 8:22:08 AM, STA 47.DRB