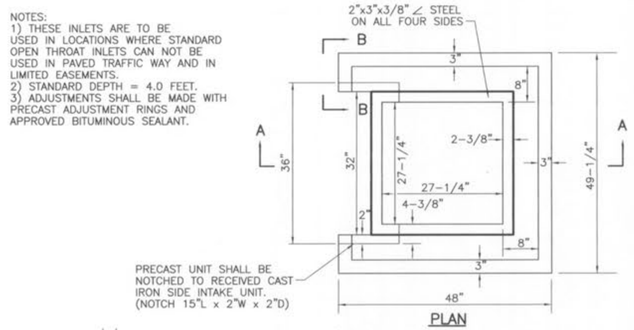
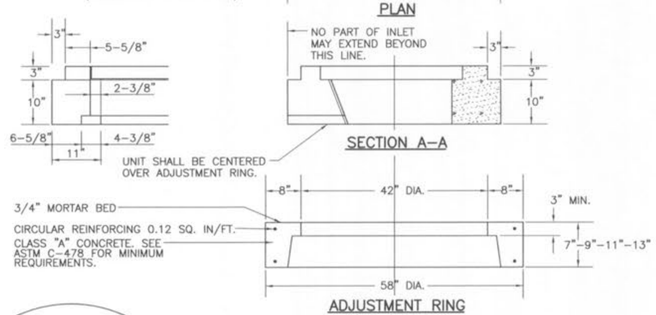
ROUND PIPE				HORIZONTAL ELLIPTICAL PIPE			
Inside Diameter of Pipe (Inches)	"W" Payline Width of Trench (Inches)	"W" Payline Width of Trench (Feet)	Pay-volumes cu. ft. per ft. Concrete Encasement	Inside Diameter of Pipe (Inches)	"W" Payline Width of Trench (Inches)	"W" Payline Width of Trench (Feet)	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

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

NOTES:
1) THESE INLETS ARE TO BE USED IN LOCATIONS WHERE STANDARD OPEN THROAT INLETS CAN NOT BE USED IN PAVED TRAFFIC WAY AND IN LIMITED EASEMENTS.
2) STANDARD DEPTH = 4.0 FEET.
3) ADJUSTMENTS SHALL BE MADE WITH PRECAST ADJUSTMENT RINGS AND APPROVED BITUMINOUS SEALANT.

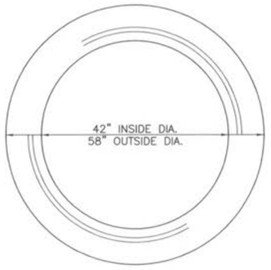


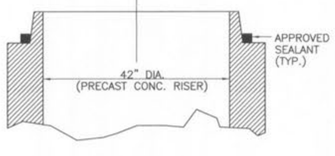
PLAN



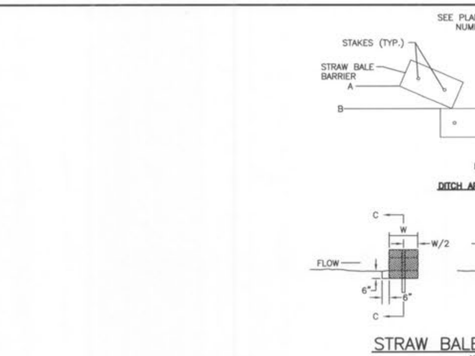
SECTION A-A

ADJUSTMENT RING

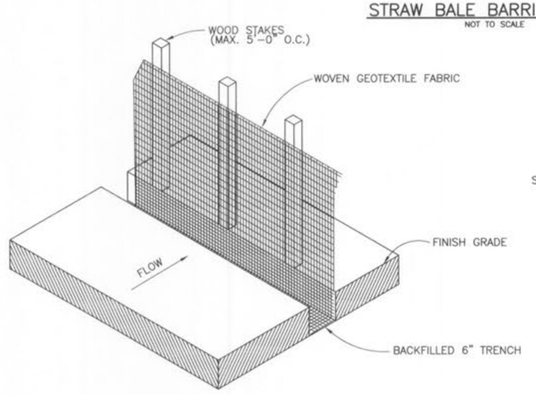




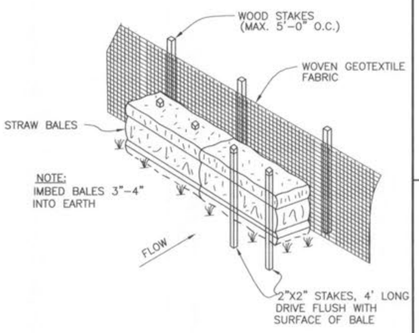
GRATE INLET
FOR 2 GRATE
WITH SIDE INTAKE



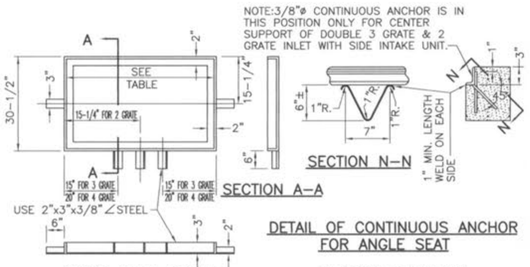
STRAW BALE BARRIER DETAIL
NOT TO SCALE



SILT FENCE DETAIL
NOT TO SCALE

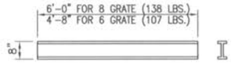


SILTATION CONTROL DEVICE
NOT TO SCALE



DETAIL OF CONTINUOUS ANCHOR FOR ANGLE SEAT

GRATE INLET FRAME



S 8 x 23 STEEL BEAM
FOR CENTER SUPPORT OF
6-OR-8 GRATE INLET

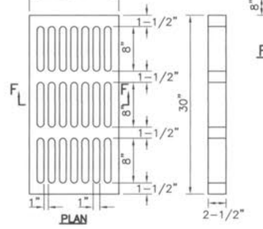
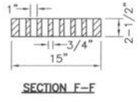


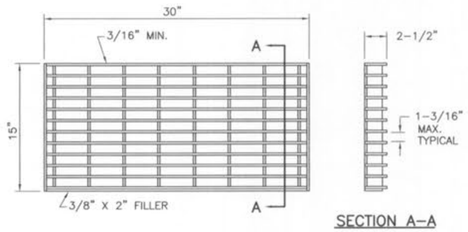
TABLE FOR SIZE OF FRAMES
2 GRATE = 30-1/2"x30-1/2"
3 GRATE = 30-1/2"x45-1/2"
4 GRATE = 30-1/2"x60-1/2"



MATERIAL: CAST GRAY IRON ASTM. A48

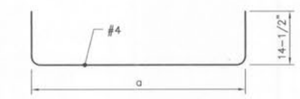
CAST IRON GRATE
(NF, R-3297 OR EQUAL)

DETAILS OF INLET
FRAME AND GRATES

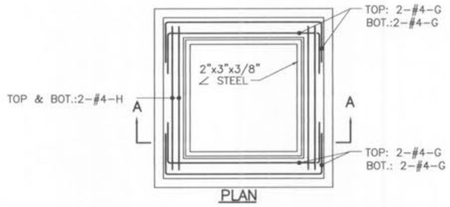


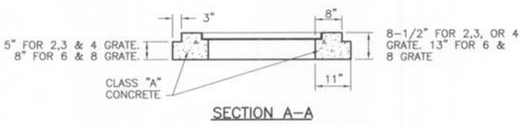
FINISH	- HOT DIP GALVANIZED-(ASTM A123/A123M-97)
MATERIAL	- MILD CARBON STEEL - ASTM A569
CAPACITY	- H-20 LOADING
WEIGHT	- 65 LB. MIN.
TOLERANCES	- ALL DIMENSIONS 1/8"±
IDENTIFICATION	- THE MANUFACTURER MUST PLACE HIS NAME OR MARK ON EACH UNIT FOR THE PURPOSE OF IDENTIFICATION

DETAIL OF STEEL GRATE

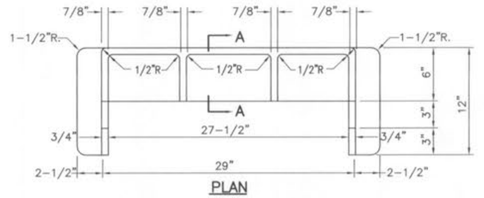


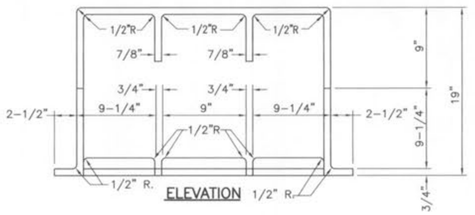
CALL	USE	a	STRAIGHT BARS
G-1	2,3 OR 4 GRATE	40"	
G-2	6 & 8 GRATE	70"	
H-2	2 GRATE		42"
H-3	3 & 6 GRATE		57"
H-4	4 & 8 GRATE		72"

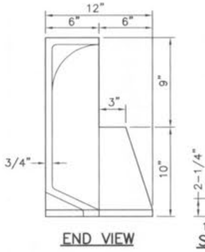


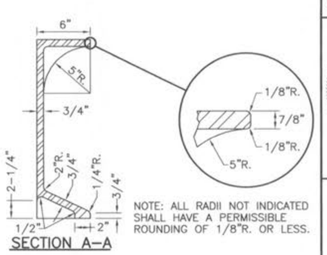


STEEL REQUIREMENTS FOR
GRATE INLET SEAT









NOTE: ALL RADII NOT INDICATED SHALL HAVE A PERMISSIBLE ROUNDING OF 1/8"R. OR LESS.

MEXICO ROAD LANE ADDITION

DETAIL SHEET

CITY OF O'FALLON
COMMUNITY DEVELOPMENT
DESIGN DIVISION
O'FALLON, MISSOURI

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STATE OF MISSOURI
CHARLES E. MILLER
NUMBER 2003018102
PROFESSIONAL ENGINEER

SEAL 11-19-03

DESIGNED: ERB
CHECKED: CEM
DATE: 11/7/03
PROJECT NO.: 00-034

SHEET
32 OF 33