

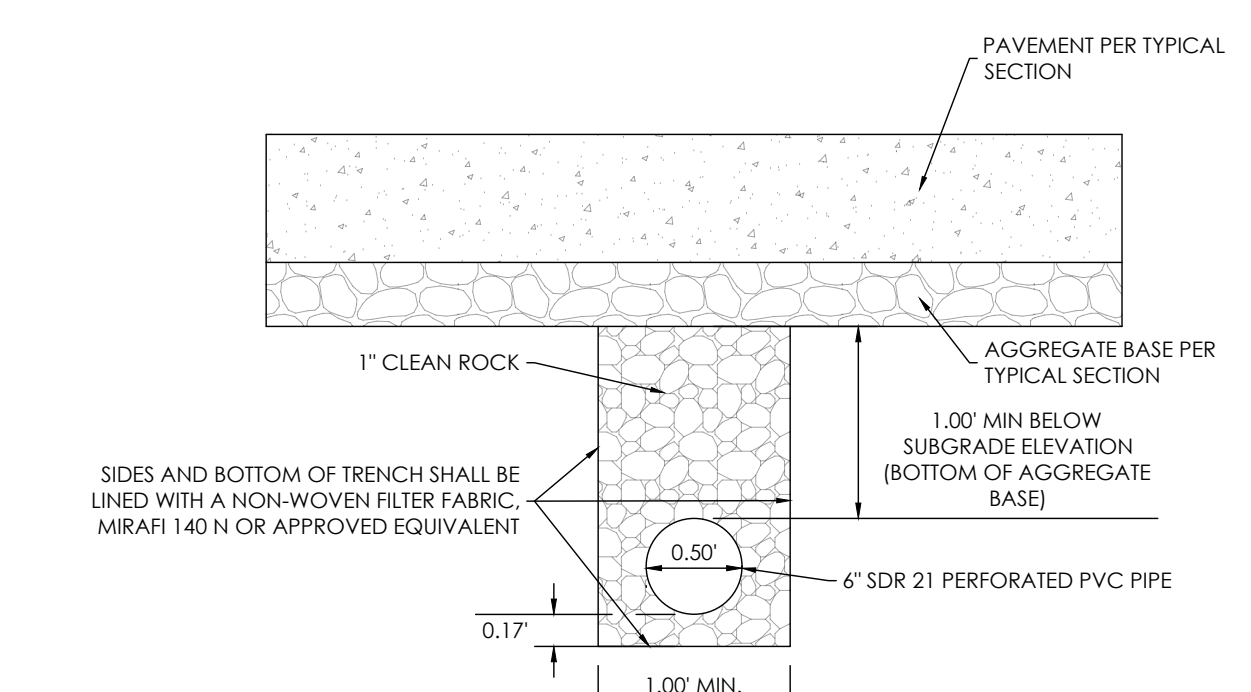
OWNER
CITY OF OFALLON
100 NORTH MAIN STREET
OFALLON, MO 63366
636.379.5590

PROJECT TEAM
CIVIL ENGINEER
PREMIER DESIGN GROUP
100 MIDLAND PARK DRIVE
WENTZVILLE, MO 63385
314.925.7444

MAINTENANCE CONSULTANT
HDR ENGINEERING, INC.
17725 KATY FREEWAY SUITE 102
HOUSTON, TX 77094
813.360.2700

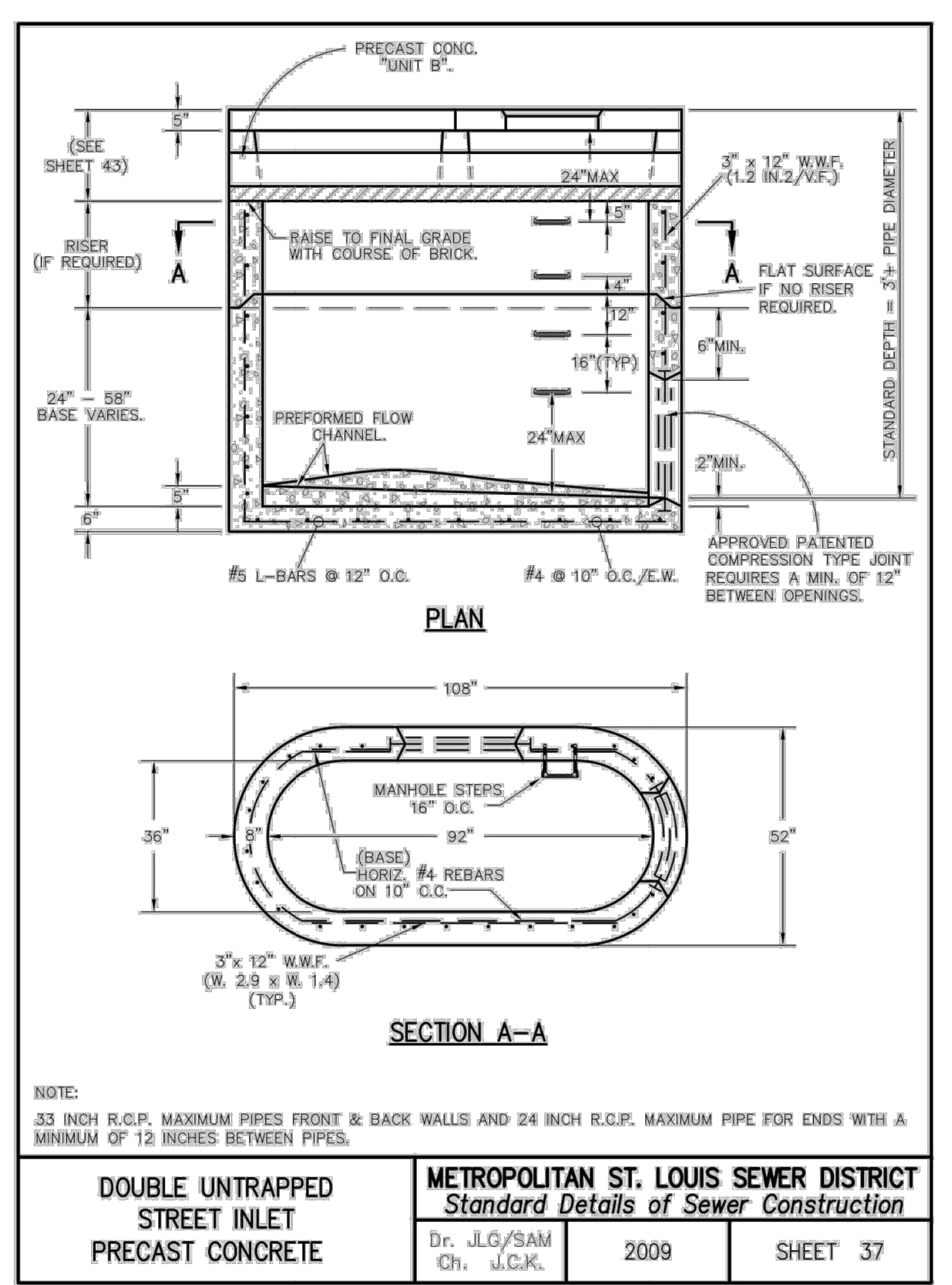
STRUCTURAL ENGINEER
METTEMAYER ENGINEERING
2225 W CHESTERFIELD BLVD., SUITE 300
SPRINGFIELD, MO 65807
417.890.8002

MEP ENGINEER
HENDERSON ENGINEERS, INC.
8345 LENEAXA DR., #300
LENEAXA, KS 66214
913.742.5000

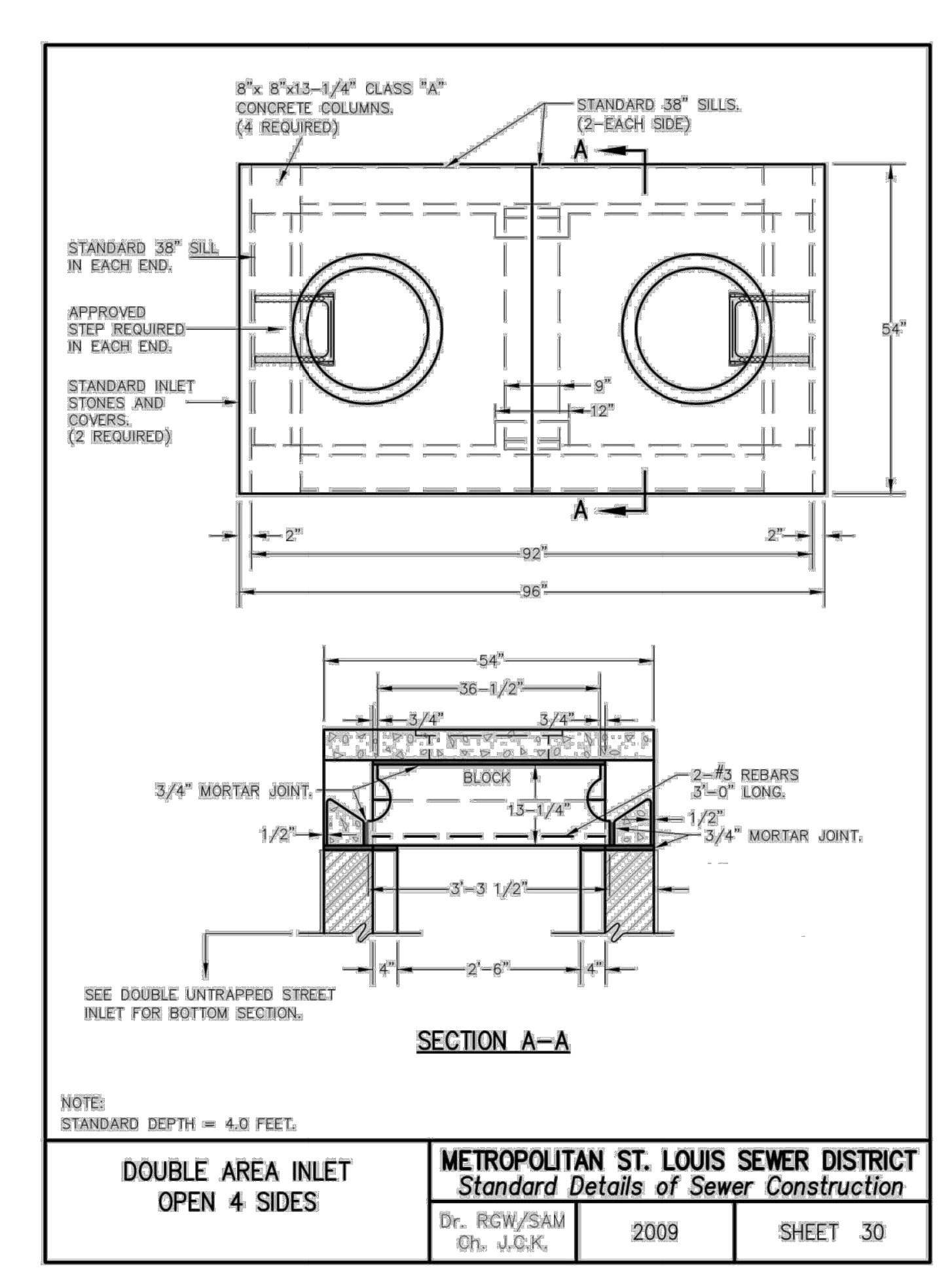


NOTES:
1. SECTION IS SYMMETRICAL ABOUT THE CENTERLINE OF THE UNDERDRAIN PIPE.
2. WHEN STORM STRUCTURES ARE PRESENT IN RELATIONSHIP WITH A STREET, DIRECTLY ACROSS FROM EACH OTHER, THE UNDERDRAIN SHALL BE INTO BOTH STRUCTURES, WHERE ONLY ONE STRUCTURE IS PRESENT THE UNDERDRAIN PIPE SHALL EXTEND THE FULL WIDTH OF THE PAVEMENT.
3. ALL UNDERDRAIN PIPES SHALL BE LINED WITH PERFORATION FACING DOWNWARD.
4. NON-WOVEN FILTER FABRIC SHALL OVERLAP A MINIMUM OF 12" AT ALL JOINTS.
5. UNDERDRAIN THAT ARE NOT ASSOCIATED WITH A STREET TYPICAL SECTION SHALL BE EXTENDED 10 FEET. REFER TO PLAN FOR LOCATIONS.

1 UNDERDRAIN DETAIL
NOT TO SCALE P-2-OFA-111



DOUBLE UNTRAPPED STREET INLET PRECAST CONCRETE
METROPOLITAN ST. LOUIS SEWER DISTRICT
Standard Details of Sewer Construction
Dr. JLG/SAM Ch. J.C.K. 2009 SHEET 37



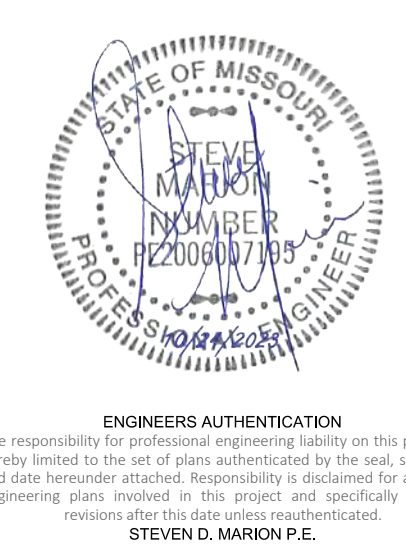
DOUBLE AREA INLET OPEN 4 SIDES
METROPOLITAN ST. LOUIS SEWER DISTRICT
Standard Details of Sewer Construction
Dr. RWG/SAM Ch. J.C.K. 2009 SHEET 30

REVISIONS

NO.	DESCRIPTION	DATE
1	ADDENDUM #01	10/5/2023

PROJECT NO.: 2207920 DRAWN BY: A. JONES
DATE: 9-15-2023 REVIEWED BY: M. FOGARTY

PROFESSIONAL SEAL



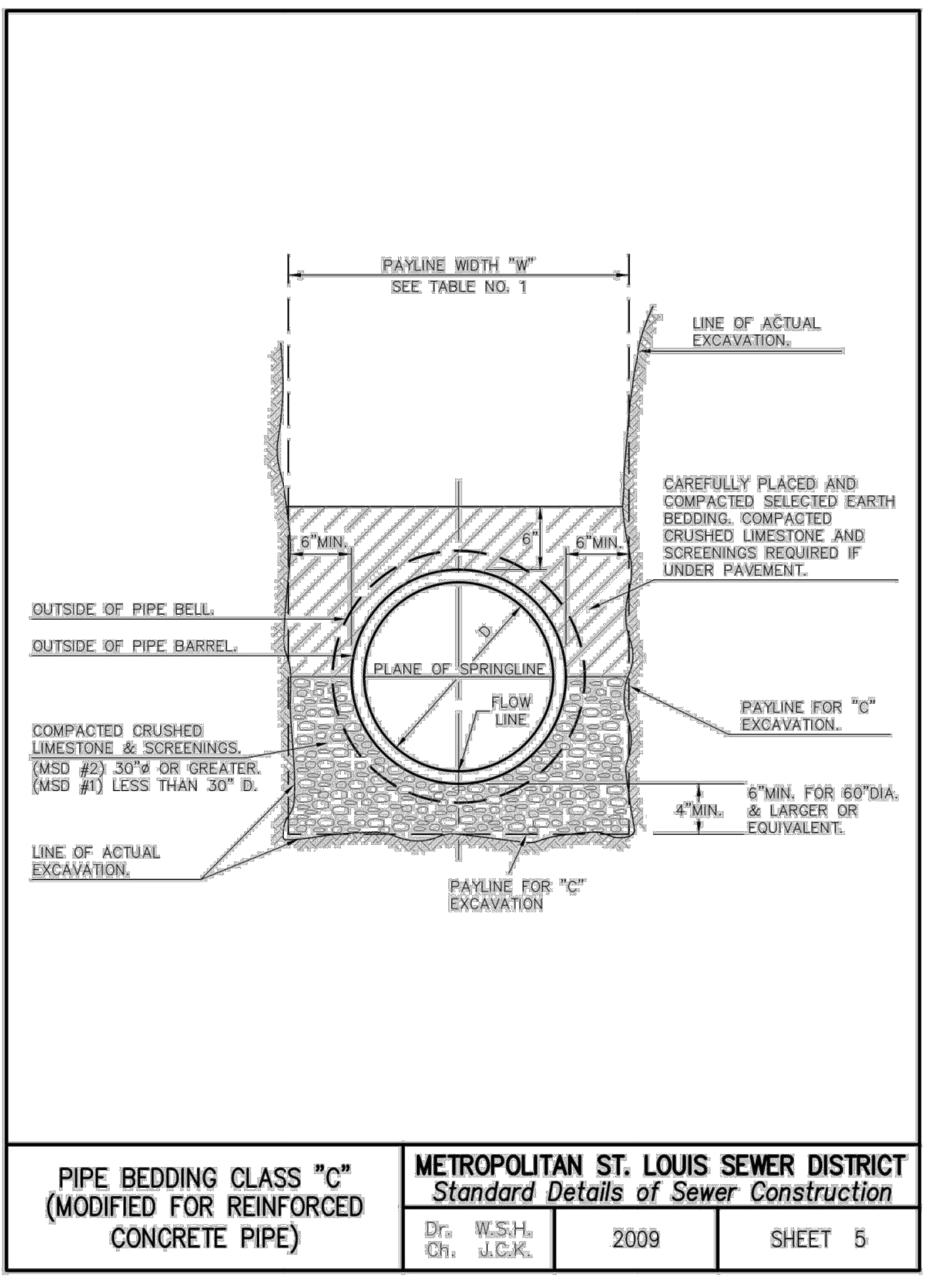
PROJECT TITLE
O'FALLON PUBLIC WORKS FACILITY

PROJECT ADDRESS:
1101 OLD E TERRA LANE
OFALLON, MO 63366

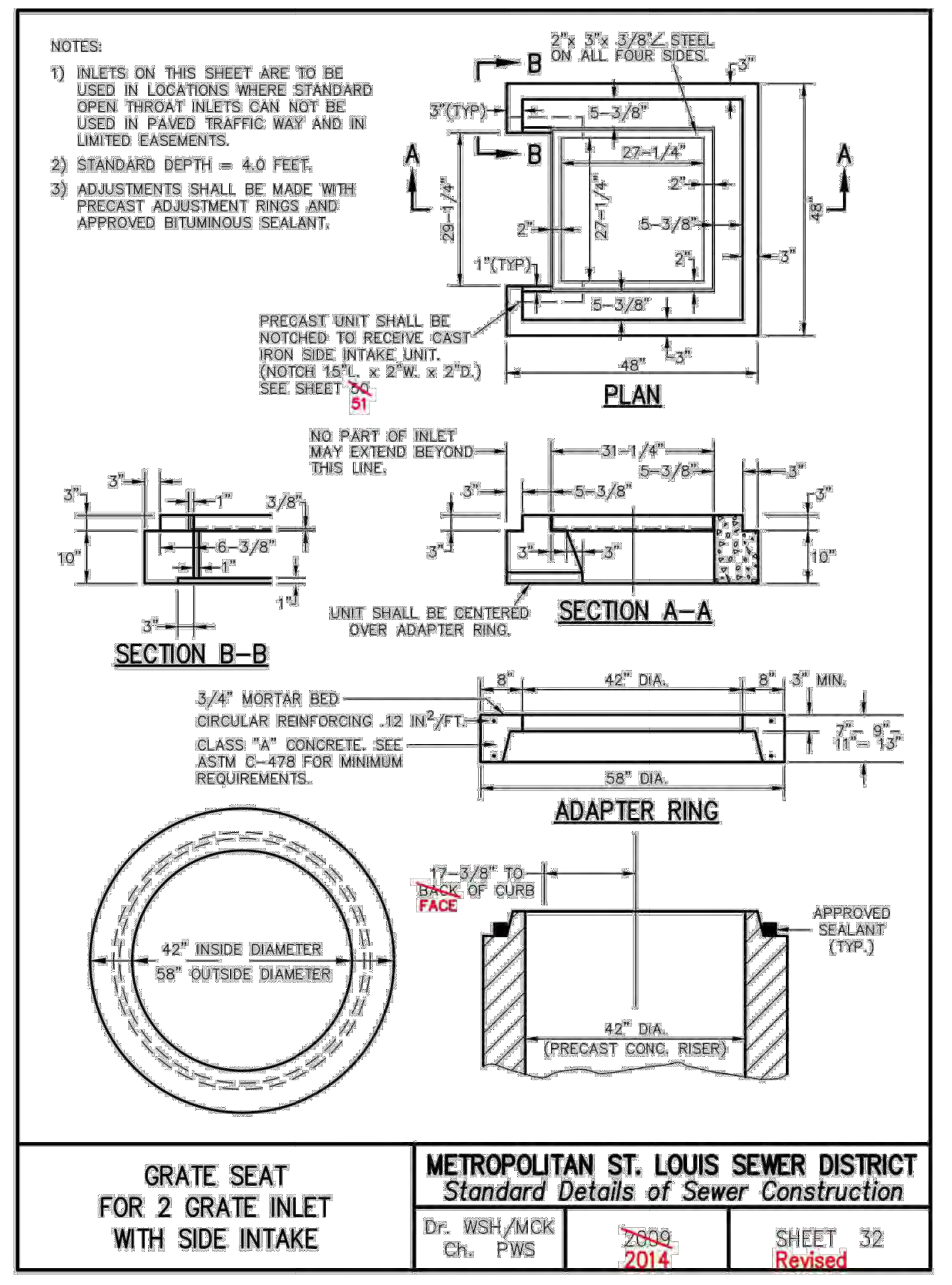
STORM SEWER DETAILS

ROUND PIPE				HORIZONTAL ELLIPTICAL PIPE			
INSIDE DIAMETER OF PIPE (INCHES)	TYPICAL PAYLINE WIDTH OF TRENCH (INCHES)	TYPICAL PAYLINE WIDTH OF TRENCH (FEET)	PAY-VOLUMES (CU. FT. PER FT. CONCRETE ENGAGEMENT)	INSIDE DIMENSIONS OF PIPE (INCHES)	TYPICAL PAYLINE WIDTH OF TRENCH (INCHES)	TYPICAL PAYLINE WIDTH OF TRENCH (FEET)	PAY-VOLUMES (CU. FT. PER FT. CONCRETE ENGAGEMENT)
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	4.29				
18	36	3.00	5.59				
18	36	3.00	5.77	14 x 23	41	3.42	5.04
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				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	24.39
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	35.00	72 x 113	143	11.92	36.99
96	126	10.50	37.37	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

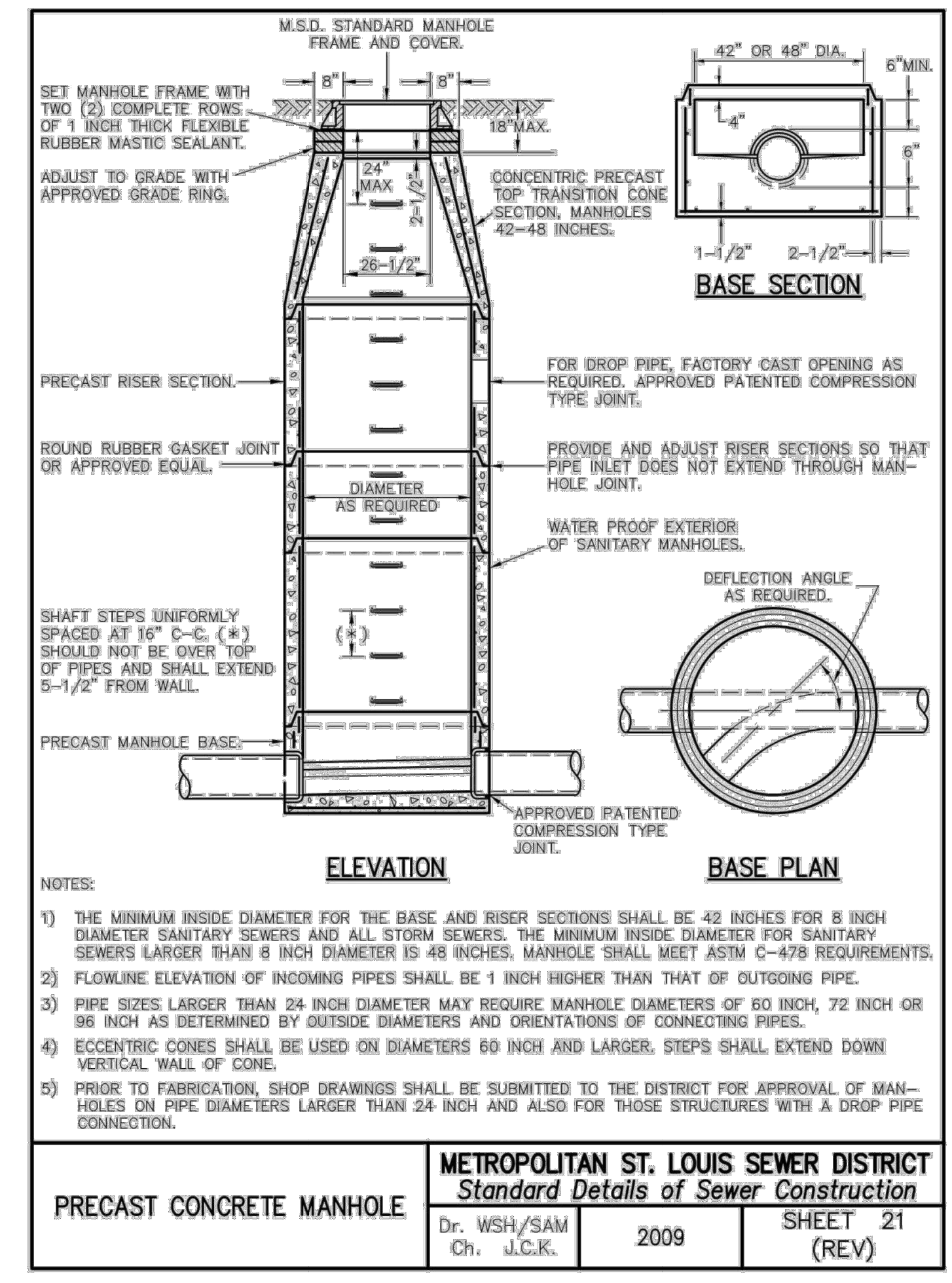
TABLE 1 PAYLINE WIDTHS OF TRENCH AND PAY-QUANTITIES OF CONCRETE
METROPOLITAN ST. LOUIS SEWER DISTRICT
Standard Details of Sewer Construction
Dr. B.E.B./Ch. J.C.K. 2009 SHEET 1



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. 2009 SHEET 5



GRATE SEAT FOR 2 GRATE INLET WITH SIDE INTAKE
METROPOLITAN ST. LOUIS SEWER DISTRICT
Standard Details of Sewer Construction
Dr. W.S.H./Ch. J.C.K. 2009 SHEET 32 Revised



PRECAST CONCRETE MANHOLE
METROPOLITAN ST. LOUIS SEWER DISTRICT
Standard Details of Sewer Construction
Dr. W.S.H./Ch. J.C.K. 2009 SHEET 21 (REV)