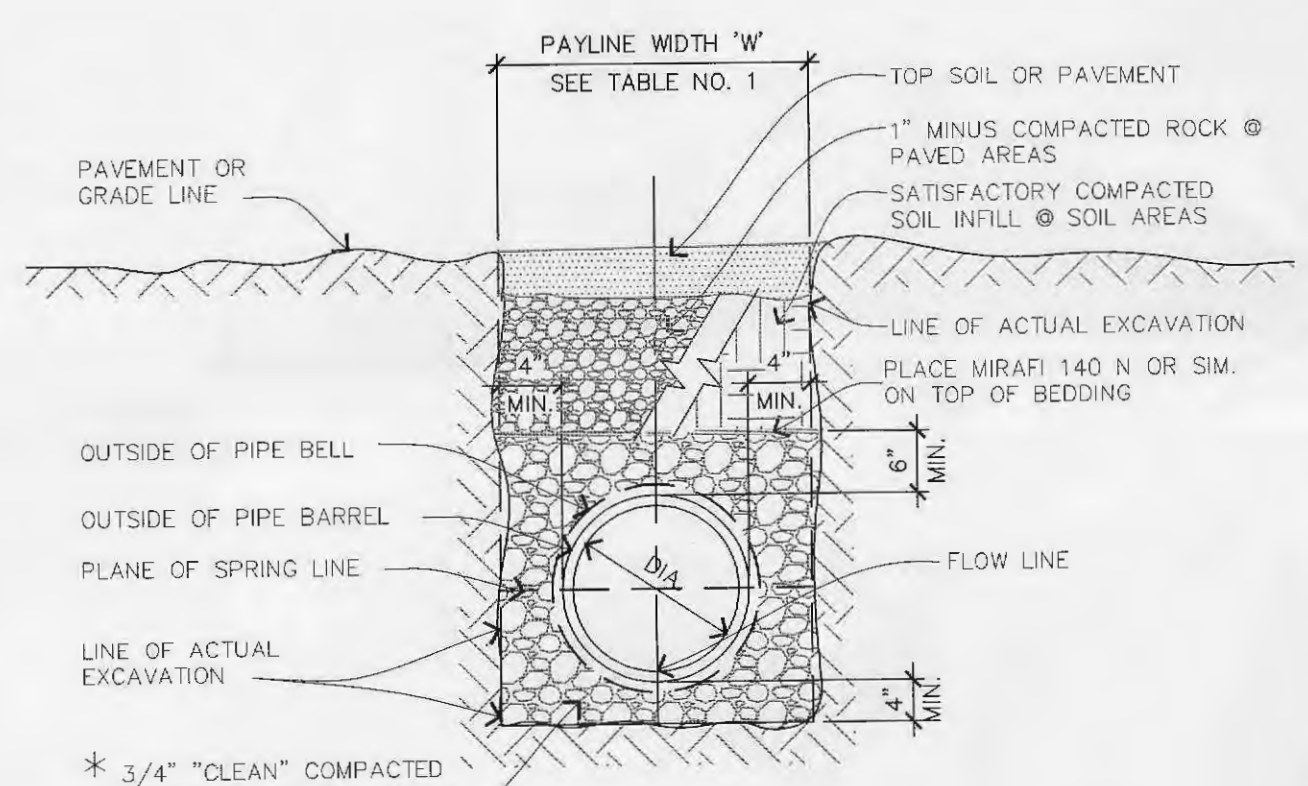


NTS SECTION @ REINF. CONC. PIPE BACKFILL  
2.04a STANDARD PIPE BEDDING

\* EXCEPTION: WITHIN 6 FEET OF BUILDING, SUBSTITUTE FLOWABLE FILL FOR CLEAN ROCK BEDDING. NO FABRIC REQUIRED ON FLOWABLE FILL.

- GENERAL NOTES:
1. ANY TRENCH BRACING USED BELOW THE TOP OF PIPE SHALL BE LEFT IN PLACE.
  2. DETAIL APPLICABLE TO PAVEMENT AND LANDSCAPE AREAS.

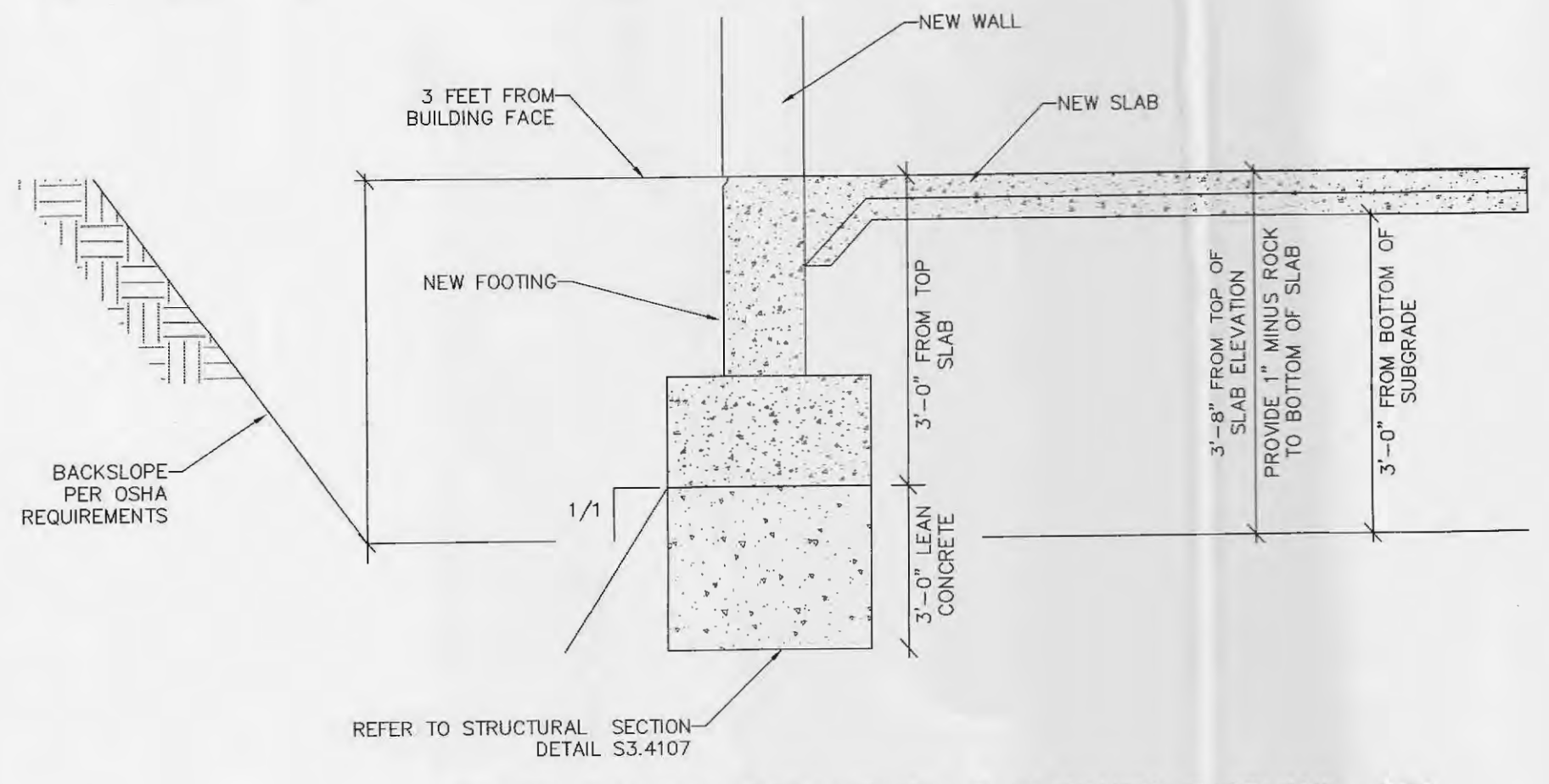


NTS SECTION @ PVC BACKFILL  
2.04b STANDARD FLEXIBLE SANITARY SEWER PIPE BEDDING - 8" TO 16" DIA.

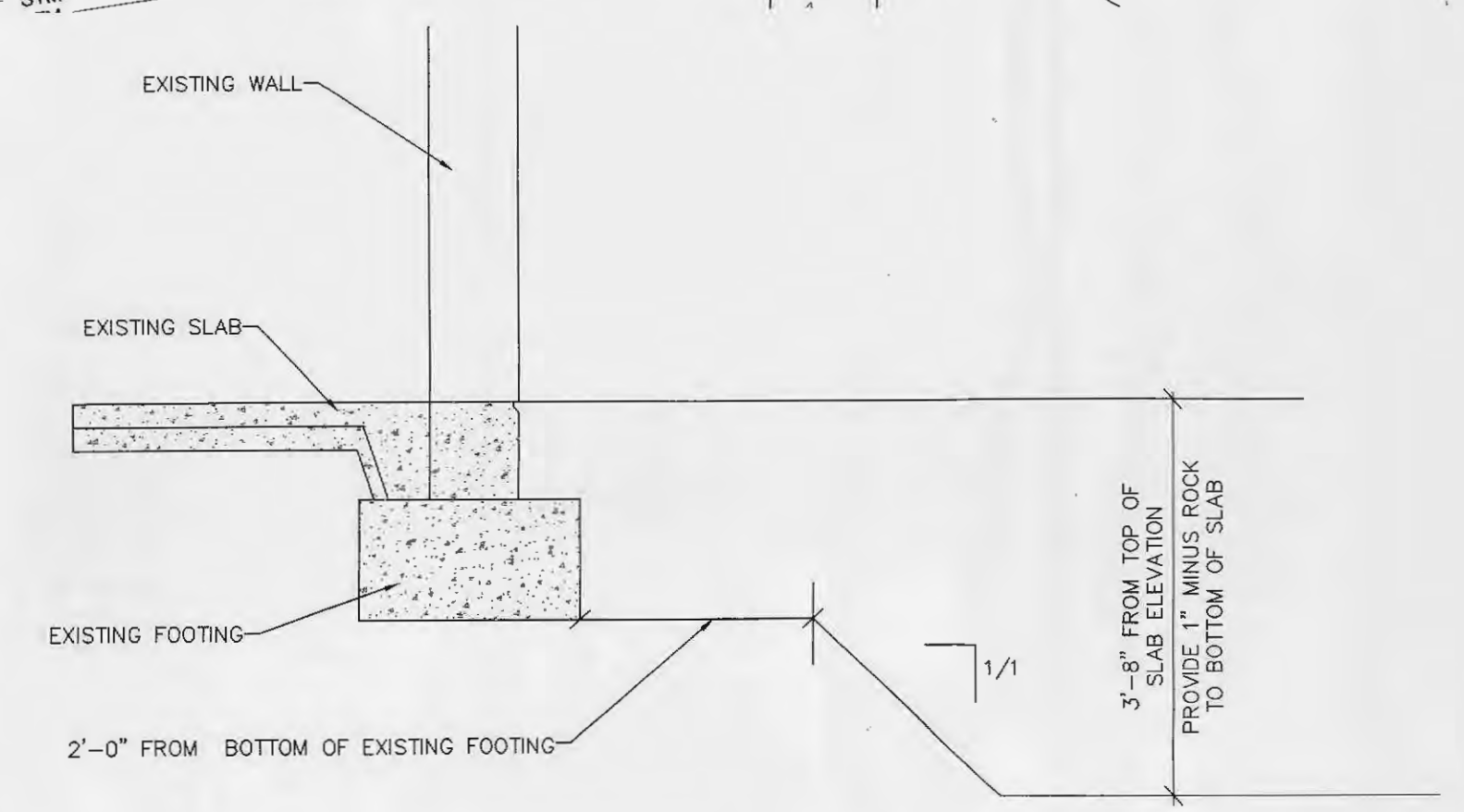
\* EXCEPTION: WITHIN 6 FEET OF BUILDING, SUBSTITUTE FLOWABLE FILL FOR CLEAN ROCK BEDDING. NO FABRIC REQUIRED ON FLOWABLE FILL.

- GENERAL NOTES:
1. ANY TRENCH BRACING USED BELOW THE TOP OF PIPE SHALL BE LEFT IN PLACE.
  2. DETAIL APPLICABLE TO PAVEMENT AND LANDSCAPE AREAS.

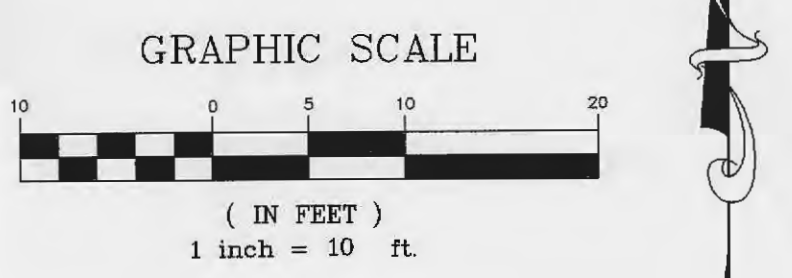
(USE ON STORM DOWNSPOUT PIPING)



REMEDATION AT PROPOSED BUILDING SOUTH, EAST AND WEST  
NOT TO SCALE



REMEDATION AT EXISTING BUILDING  
NOT TO SCALE



SOIL REMEDIATION AREA (SHADED)  
EXCAVATE 3 FOOT 8 INCHES DEPTH FROM FINISH FLOOR AND 3 FEET OUTSIDE BUILDING REMOVE SOIL AND REPLACE WITH 1" MINUS ROCK. 3 FEET OF LEAN CONCRETE TO BE PLACED BELOW THE BOTTOM OF ALL EXTERIOR FOOTINGS THE ENTIRE WIDTH OF FOOTING. REFER TO DETAIL ON SHEET C3.50.

ROUND PIPE				HORIZONTAL ELLIPTICAL PIPE				
INSIDE DIAMETER OF PIPE (INCHES)	"W" PAYLINE WIDTH OF TRENCH (INCHES)	"W" PAYLINE WIDTH OF TRENCH (INCHES)	PAY-VOLUME CU. FT. PER FT. OF PIPE	INSIDE DIMENSIONS OF PIPE (INCHES)	"W" PAYLINE WIDTH OF TRENCH (INCHES)	"W" PAYLINE WIDTH OF TRENCH (INCHES)	PAY-VOLUME CU. FT. PER FT. OF PIPE	
4	30	2.50	3.28					
6	30	2.50	3.99					
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	48	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	58	4.87	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 66	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	36.69	
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 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

**PROJECT TITLE:**  
DISCOVERY RIDGE  
ELEMENTARY SCHOOL  
CLASSROOM ADDITIONS

**ENGINEERING PLANNING SURVEYING**  
221 Point West Blvd.  
St. Charles, MO 63301  
636-629-6552  
FAX 636-928-1718

CLIFFORD L. HEITMANN  
CIVIL ENGINEER  
E29817

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**REVISIONS**

8-11-15	CITY COMMENTS

**DISCOVERY RIDGE ELEMENTARY:**  
WENTZVILLE R-IV SCHOOL DISTRICT  
ONE CAMPUS DRIVE  
WENTZVILLE, MO 63385  
636-327-3800

**DOWNSPOUT DETAILS**

P+Z No. 3407.11  
City No. 15-607  
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