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PROJECT TYPICAL DETAILS



PROJECT REFERENCE NO. SHEET NO.

Raleigh, N.C. 27606
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DESIGNED BY: PKP

DRAWN BY: JDS

CHECKED BY: PKP

APPROVED BY: EGW

REVISED:

NORTH CAROL INA
DEPARTMENT OF
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UTILITIES ENGINEERING SEC.
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PROJECT REFERENCE NO. SHEET NO.

SHEET NO.

HB-0004

UC-3B

4/10/2024

LICENSED:

APPROVED BY: PKP

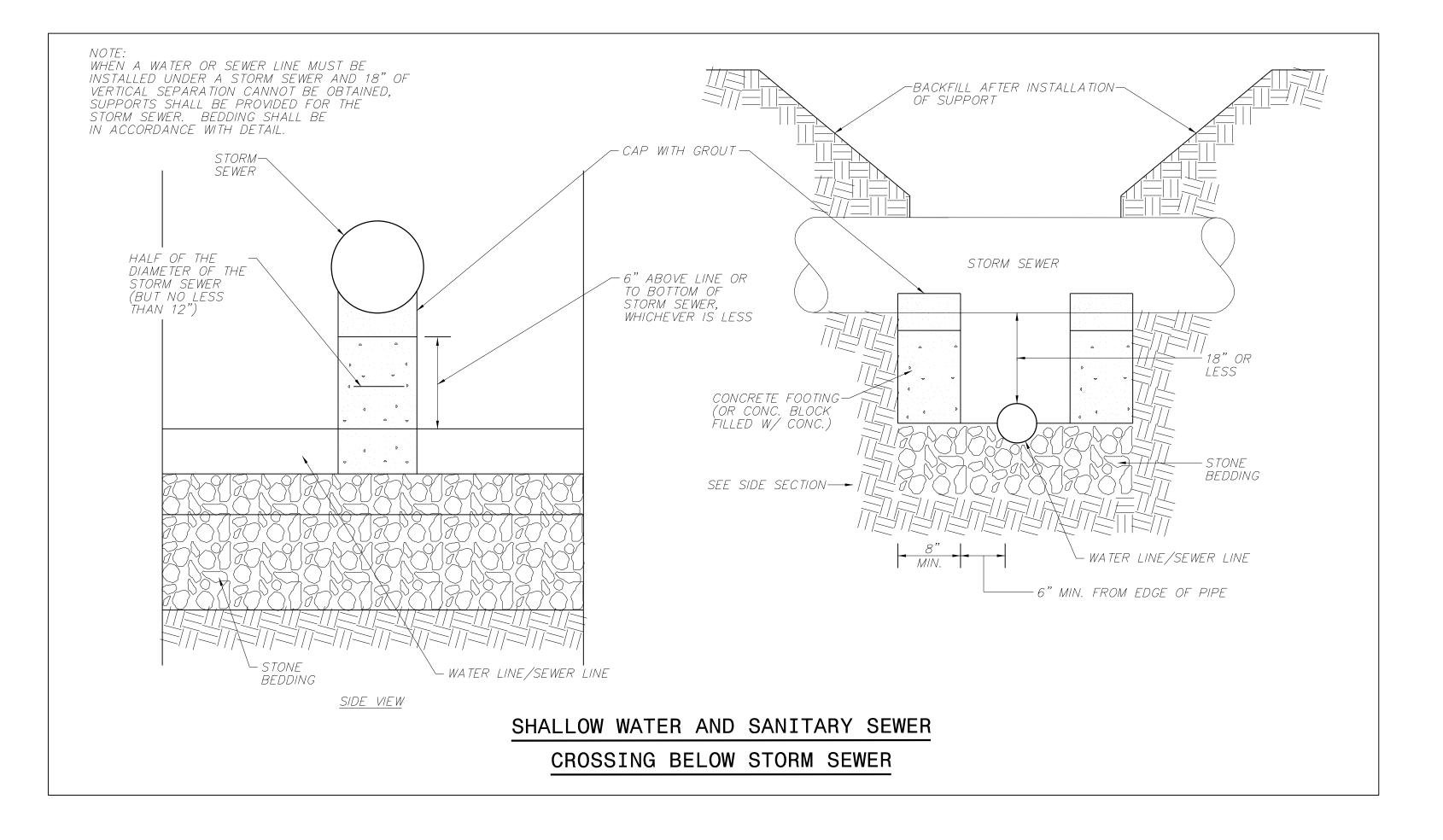
APPROVED BY: EGW

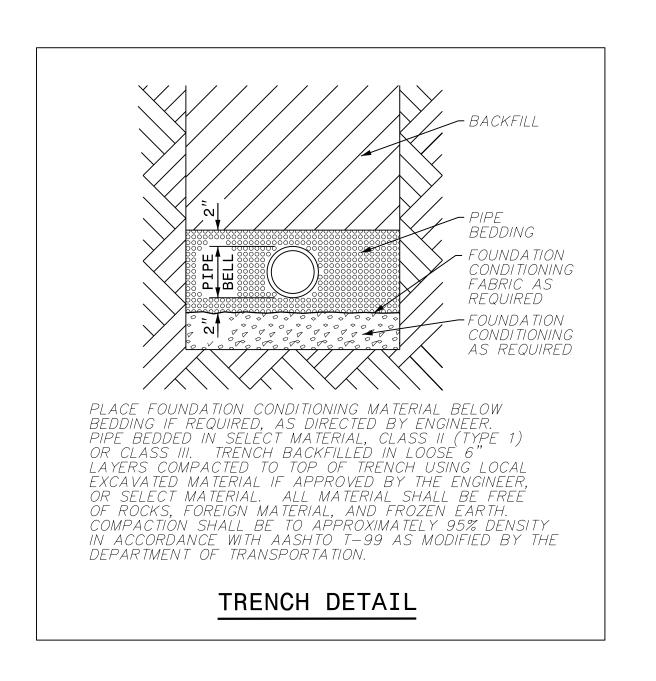
REVISED:

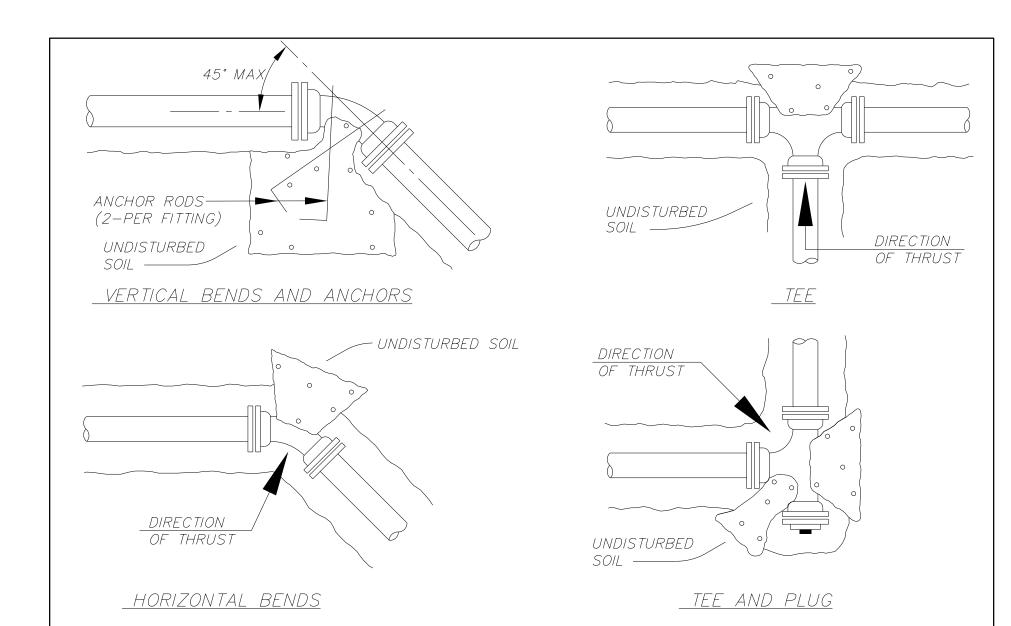
UTILITY CONSTRUCTION
PLANS ONLY

DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED

UTILITY CONSTRUCTION







CONCRETE THRUST BLOCKING SCHEDULE							NCRETE VERTICA	ANCHOR ROD SIZE		
FITTING	BEARING AREA IN SQUARE FEET					MIN. CU. YARDS CONCRETE				FOR VERTICAL
SIZE	TEE/PLUG	90°	45°	22-1/2°	11-1/4°	90°	45°	22-1/2°	11-1/2°	BEND AND ANCHORS
4"	1	2	1	1	1	1	1	1	1	1/2"
6"	3	3	2	1	1	1	1	1	1	
8"	4	6	3	2	1	2	2	1	1	3/4"
10"	7	9	5	3	2	3	3	2	1	
12"	9	12	7	4	2	5	3	2	1	7/8"
14"	12	17	9	5	3	6	4	3	2	
16"	16	22	12	6	3	8	6	3	2	
18"	20	27	15	8	4	10	7	4	2	
20"	24	34	18	10	5	12	9	5	3	1-1/8"
24"	34	48	26	14	7	17	12	7	4	
30"	53	75	41	21	11	27	19	10	5	
36"	77	108	59	30	15	38	27	15	8	1-3/8"

NOTES:

- 1. MINIMUM BEARING AREA (IN SQUARE FEET) AGAINST UNDISTURBED TRENCH WALL OF SAND.
- 2. AREAS SHOWN ARE FOR 150 PSI TEST PRESSURE. IF TEST PRESSURE IS OTHER THAN 150 PSI, ADJUST AREA OF REACTION BACKING IN DIRECT PROPORTION.
- 3. <u>OTHER SOIL CONDITIONS</u> CEMENTED SAND OR HARDPAN MULTIPLY ABOVE BY 0.5

 GRAVEL OR HARD DRY CLAY MULTIPLY ABOVE BY 0.7

 SOFT CLAY MULTIPLY ABOVE BY 2.0

MUCK: SECURE ALL FITTINGS WITH APPROVED HARNESS OR TIE ROD CLAMPS, WITH CONCRETE REACTION BACKING THE SAME AS LISTED FOR SAND CONDITIONS.

THRUST BLOCKING AND ANCHORING

4/4/2024 :::\HBBBB4-ut_UC_notes-details.dgn