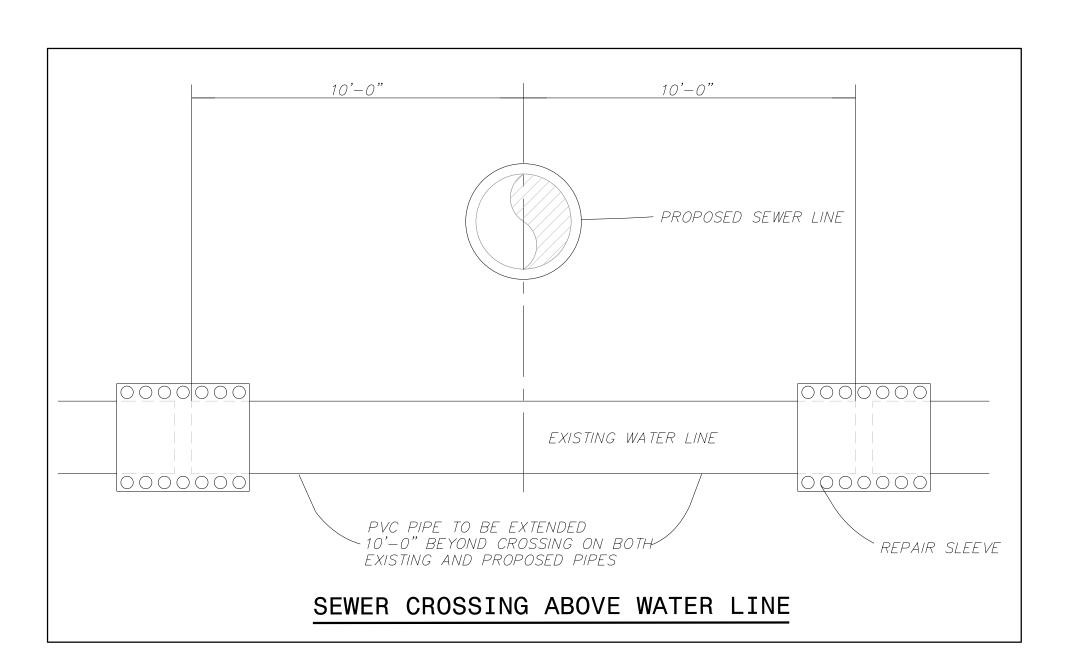
CONCRETE THRUST BLOCKING SCHEDULE							NCRETE	ANCHOR ROD		
CONCILE HINOST BLOCKING SCHEDOLL						VERTICAL BENDS				SIZE
FITTING	BEARING AREA IN SQUARE FEET					MIN. CU. YARDS CONCRETE				FOR VERTICAL
SIZE	TEE/PLUG	90°	45°	22-1/2°	11-1/4°	90°	45°	22-1/2°	11-1/2°	BEND AND ANCHORS
4"	1	2	1	1	1	1	1	1	1	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"

HORIZONTAL BENDS

- 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. OTHER SOIL CONDITIONS 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.

TEE AND PLUG

## THRUST BLOCKING AND ANCHORING



## PROJECT TYPICAL DETAILS

4. SUPPORTS SHALL BE MANUFACTURED BY ADVANCE PRODUCTS

5. THREE SUPPORTS SHALL BE INSTALLED ON EACH PIPE SEGMENT.

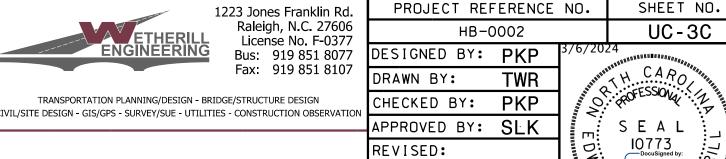
6. LARGER ENCASEMENT SIZES MAY BE UTILIZED AT THE DISCRETION

& SYSTEMS, INC, PIPELINE SEAL AND INSULATOR LTD, OR BWM

OF THE DESIGN ENGINEER AND/OR CONTRACTOR FOR EASE OF

INSTALLATION AS LONG AS ALL OTHER DESIGN CRITERIA IS MET.

COMPANY.



.500

.500 .625

.625

. *750* 

.875

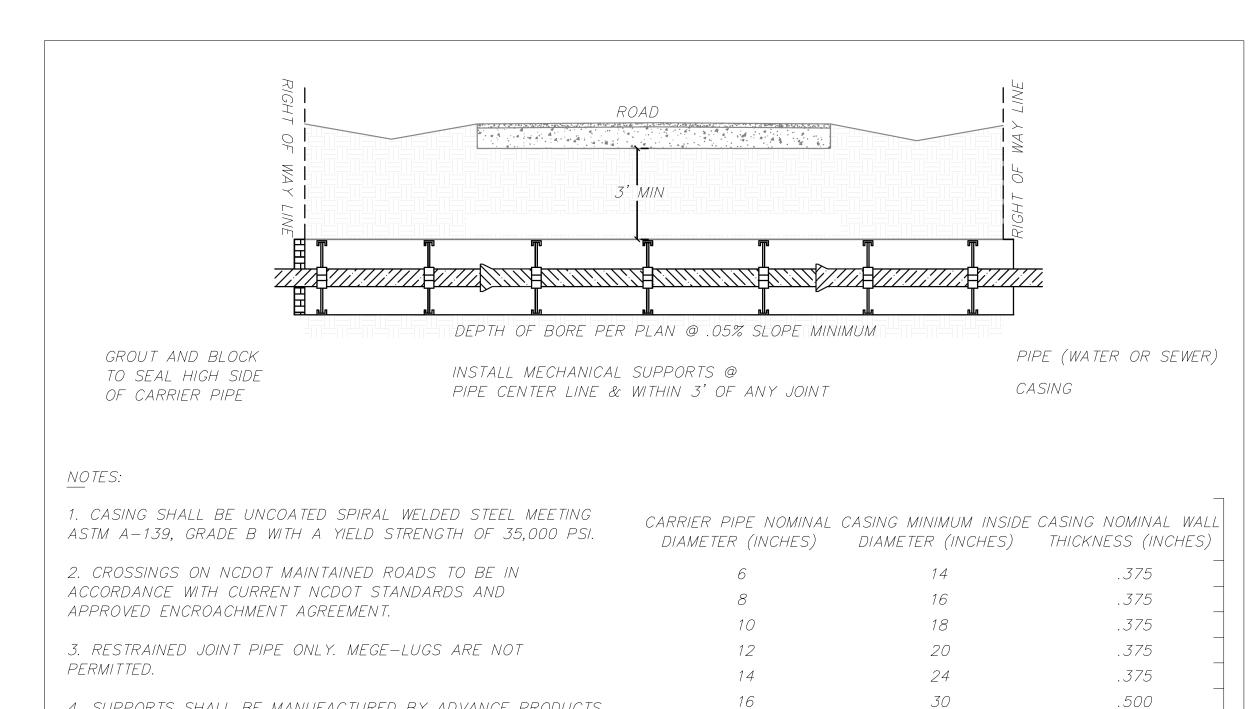
S E A L10773
DocuSigned by: NORTH CAROLINA DEPARTMENT OF TRANSPORTATION UTILITIES ENGINEERING SEC PHONE: (919)707-6690 UTILITY CONSTRUCTION

PLANS ONLY

DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED

FAX:(919)250-4151

UTILITY CONSTRUCTION



BORE AND JACK DETAIL

