PROJECT TYPICAL DETAILS

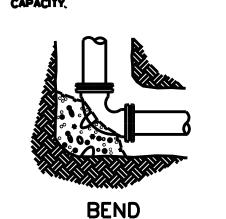
PROJECT REFERENCE NO. | SHEET NO. I-5878 UC-3A DESIGNED BY: DMP DMP DRAWN BY: CHECKED BY: DMP APPROVED BY: REVISED: NORTH CAROLINA DEPARTMENT OF TRANSPORTATION UTILITIES ENGINEERING SEC PHONE: (919)707-6690 UTILITY CONSTRUCTION FAX: (919)250-4151 PLANS ONLY

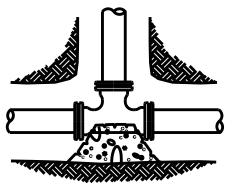
UTILITY CONSTRUCTION

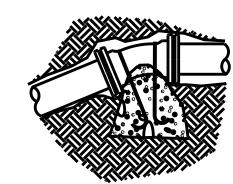
DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED

EARI	NG ARE	HORIZONTAL) OF THRUST	BLOC	KS IN S	SQ. FT.	VOLUME IN CU.	OF YDS.	THR (VERTIC	UST (BLOC
TTING	TEE	90° BEND	45*	22 1/2°	11 1/4*	FITTING	BEND ANGLE			
SIZE			BEND	BEND	BEND	SIZE	45*	22.5*	11,25*	
4	1,3	1,8	1.0	1.0	1.0	4	1,1	0.4	0.2	
6	2.8	4.0	2.2	1,1	1,0	6	2.7	1.0	0.4	
8	5.0	7,1	3.8	2.0	1.0	8	4.0	1.5	0.6	
12	11,3	16.0	8.7	4,4	2.2	12	8.5	3.2	1,3	
16	20.1	28.4	15.4	7.8	3.9	16	14.8	5.6	2.3	
20	31,1	44,4	24.0	12.3	6.2					
24	45.2	64.0	34.6	17,7	8.9					

VALUES BASED ON 200 PSI WATER PRESSURE AND 2000 PSF SOIL BEARING CAPACITY.







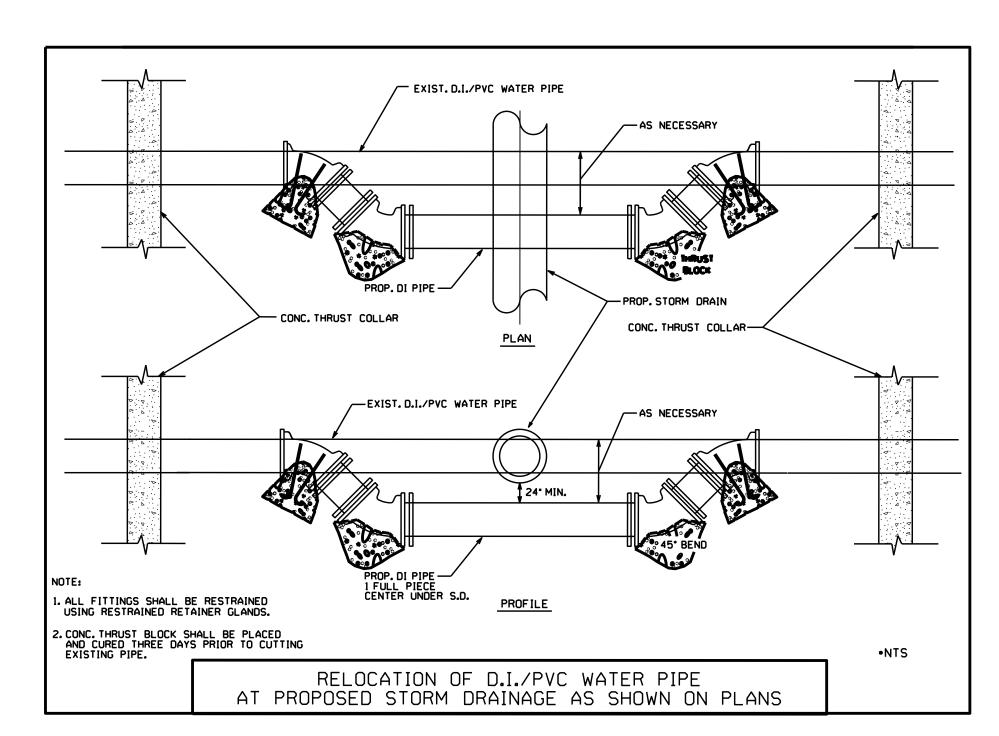
VERTICAL BEND

STRADDLE BLOCK SEE DETAIL No. 200

TEE

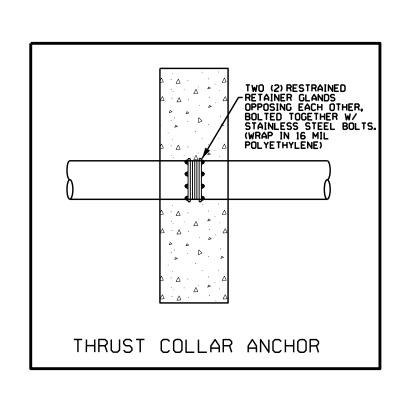
- 1) CONCRETE BLOCKING TO BE POURED AGAINST UNDISTURBED EARTH
- 2) ALL CONCRETE TO BE CLASS 3000
- 3) INSTALL 12 MIL TOTAL THICKNESS POLYETHENE SHEET AROUND FITTING, SECURE SHEET ENDS TO PREVENT INFILTRATION OF DIRT BETWEEN SHEET AND PIPE FITTING PRIOR TO POURING THRUST BLOCKING
- 4) PROTECT MECHANICAL JOINT FOLLOWERS AND BOLTS FROM CONCRETE WITH TEMPOARY FORMS AND POLYETHENE SHEETING SEE NOTE No. 3

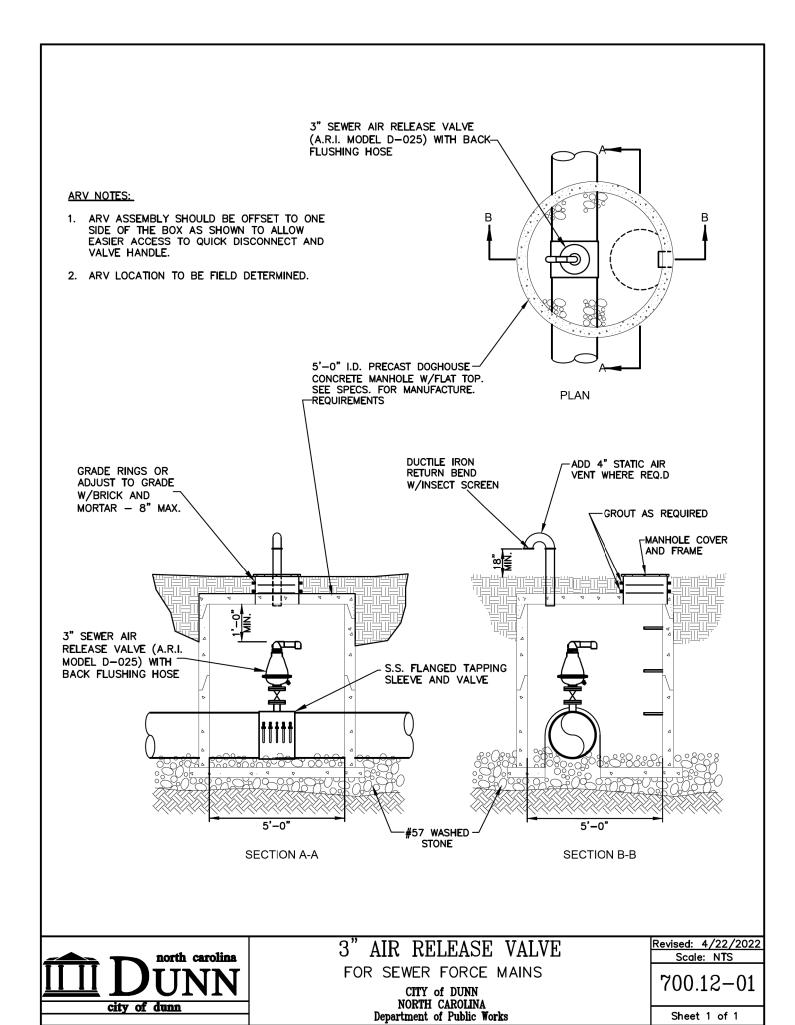
THRUST BLOCKING DETAILS

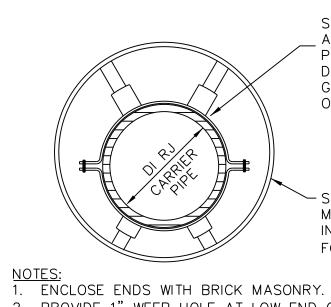


TRENCH DETAIL						
PLACE FOUNDATION CONDITIONING MATERIAL BELOW BEDDING IF REQUIRED, AS DIRECTED BY ENGINEER. PIPE BEDDED IN SELECT MATERIAL, CLASS II (TYPE 1) OR CLASS III. TRENCH BACKFILLED IN LOOSE 6" LAYERS COMPACTED TO TOP OF TRENCH USING LOCAL EXCAVATED MATERIAL, ALL MATERIAL SHALL BE FREE OF ROCKS, FOREIGN MATERIAL, AND FROZEN EARTH. COMPACTION SHALL BE TO APPROXIMATELY 95% DENSITY IN ACCORDANCE WITH AASHTO T-99 AS MODIFIED BY THE DEPARTMENT OF TRANSPORTATION.						

MAXIMUM TRENCH WIDTH AT TOP OF PIPE										
NOMINAL PIPE SIZE (INCHES)	TRENCH WIDTH (INCHES)	NOMINAL PIPE SIZE (INCHES)	TRENCH WIDTH (INCHES)							
4 6 8 10 12 14 16 18	28 30 32 34 36 38 40 42	20 24 30 36 42 48 54	44 48 54 60 66 72 78							







STAINLESS STEEL SPIDER _ASSEMBLY TWO PER LENGTH OF PIPE MINIMUM ADEQUATELY
DESIGNED TO MAINTAIN PROPER
GRADE & ALIGNMENT INDICATED ON PLANS

- STEEL ENCASEMENT PIPE (DIAMETER, MINIMUM WALL THICKNESS, AND INSTALLATION METHOD NOTED ON PLANS FOR EACH ENCASEMENT)

2. PROVIDE 1" WEEP HOLE AT LOW END OF ENCASEMENT. 3. DO NOT FILL ENCASEMENTS SMALLER THAN 24". FOR ENCASEMENTS 24" AND LARGER, FILL ONLY WITH CLASS III, IV, OR V SELECT MATERIALS.

TYPICAL ENCASEMENT PIPE SECTION N.T.S.

> DAVIS • MARTIN • POWELL
>
> OF STREET O 6415 OLD PLANK RD, HIGH POINT, NC 27265 PHONE: (336)886-4821 FAX: (336)886-4458

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