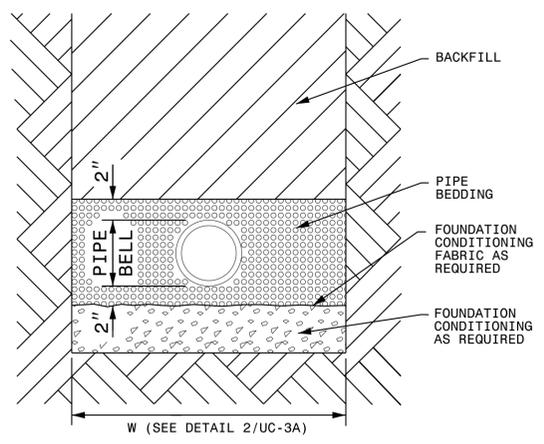


5/14/99

PROJECT REFERENCE NO.	SHEET NO.
B-5534	UC-3A
DESIGNED BY: NLH	
DRAWN BY: CDR	
CHECKED BY: CPM	
APPROVED BY: NLH	
REVISED:	UTILITY CONSTRUCTION PLANS ONLY
NORTH CAROLINA DEPARTMENT OF TRANSPORTATION UTILITIES ENGINEERING SEC. PHONE: (919) 707-6690 FAX: (919) 250-4151	



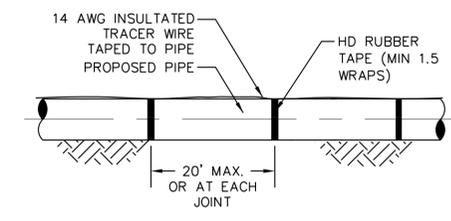
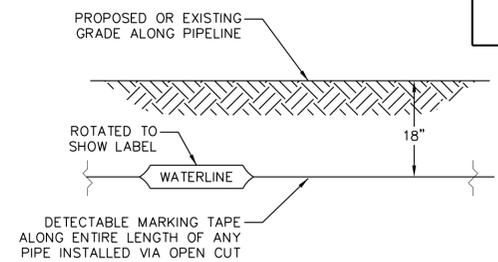
- NOTES:
1. PLACE FOUNDATION CONDITIONING MATERIAL BELOW BEDDING IF REQUIRED, AS DIRECTED BY ENGINEER.
 2. PIPE SHALL BE BEDDED IN SELECT MATERIAL, CLASS II (TYPE 1) OR CLASS III.
 3. TRENCH SHALL BE BACKFILLED IN LOOSE 6" LAYERS COMPACTED TO TOP OF TRENCH USING LOCAL EXCAVATED MATERIAL IF APPROVED BY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

1 TRENCH DETAIL
 UC-3A SCALE: N.T.S.

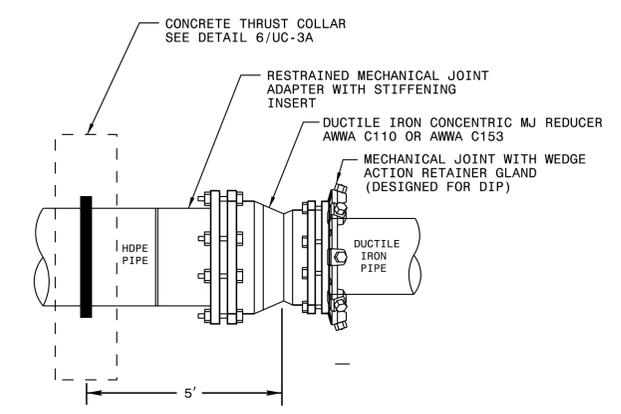
INTERNAL DIAMETER OF PIPE	TRENCH EXCAVATION LIMITS	
	WIDTH OF TRENCH	
	MAX	W=MIN
4"-6"	3'-9"	2'-0"
8"-10"	3'-9"	2'-2"
12"	3'-9"	O.D.+2'
14"-16"	4'-2"	O.D.+2'
18"	4'-4"	O.D.+2'
20", 21"	4'-8"	O.D.+2'
24"	4'-11"	O.D.+2'
27"	5'-9"	O.D.+2'
30"	6'-7"	O.D.+2'
36"	7'-4"	O.D.+2'

W = TRENCH WIDTH AT BOTTOM OF PIPE. TRENCH SIDE SLOPES SHALL BE IN ACCORDANCE WITH OSHA REQUIREMENTS.

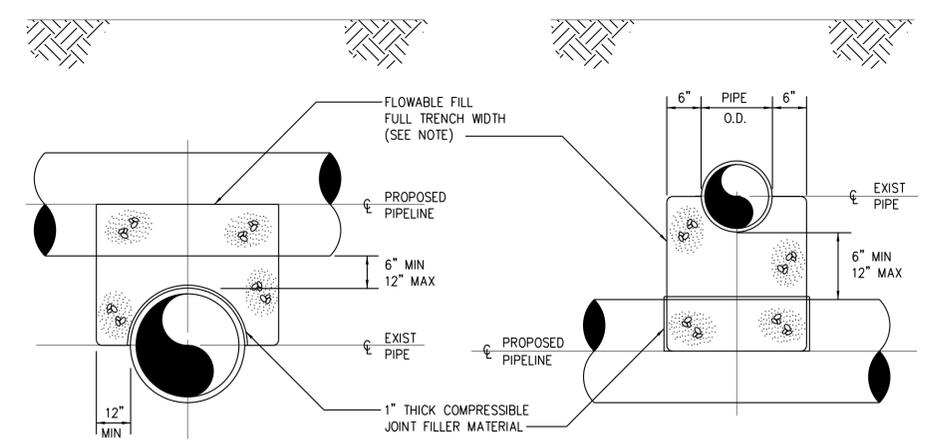
2 TRENCH EXCAVATION LIMITS
 UC-3A SCALE: N.T.S.



3 DETECTABLE MARKING TAPE AND WIRE
 UC-3A SCALE: N.T.S.

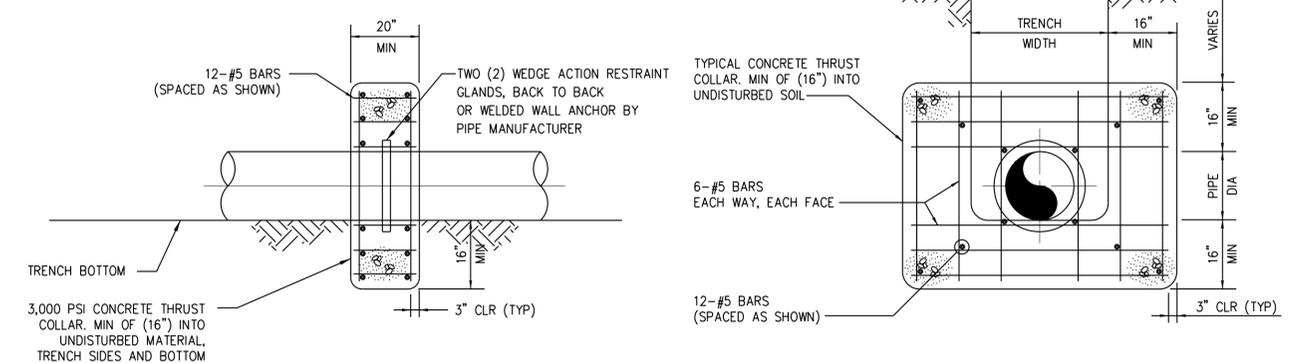


5 HDPE TO DI PIPE TRANSITION DETAIL
 UC-3A SCALE: N.T.S.



NOTE: NO ENCASEMENT REQUIRED FOR VERTICAL SEPARATION GREATER THAN 12"

4 PIPE CROSSING DETAIL
 UC-3A SCALE: N.T.S.



- ELEVATION 1
- NOTES:
1. STABILIZE BASE IF REQUIRED, AS DIRECTED BY ENGINEER, TO SUPPORT THRUST COLLAR.
 2. SOIL BEARING CAPACITY ASSUMED TO BE 2,000 PSF.

6 THRUST COLLAR
 UC-3A SCALE: N.T.S.

UTILITY CONSTRUCTION