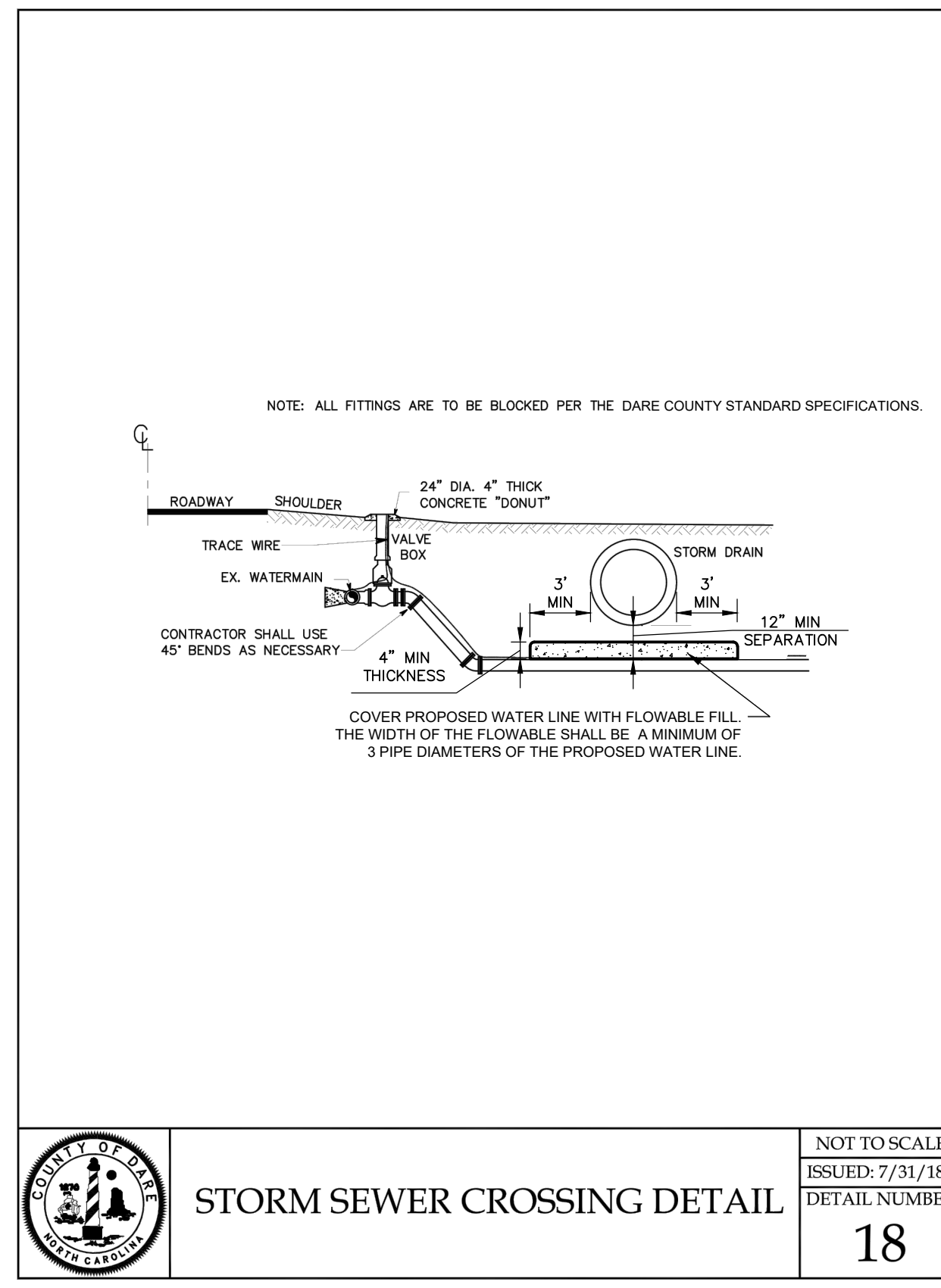


**WATER/SEWER CROSSING
DETAIL**

NOT TO SCALE
ISSUED: 7/31/18
DETAIL NUMBER
17

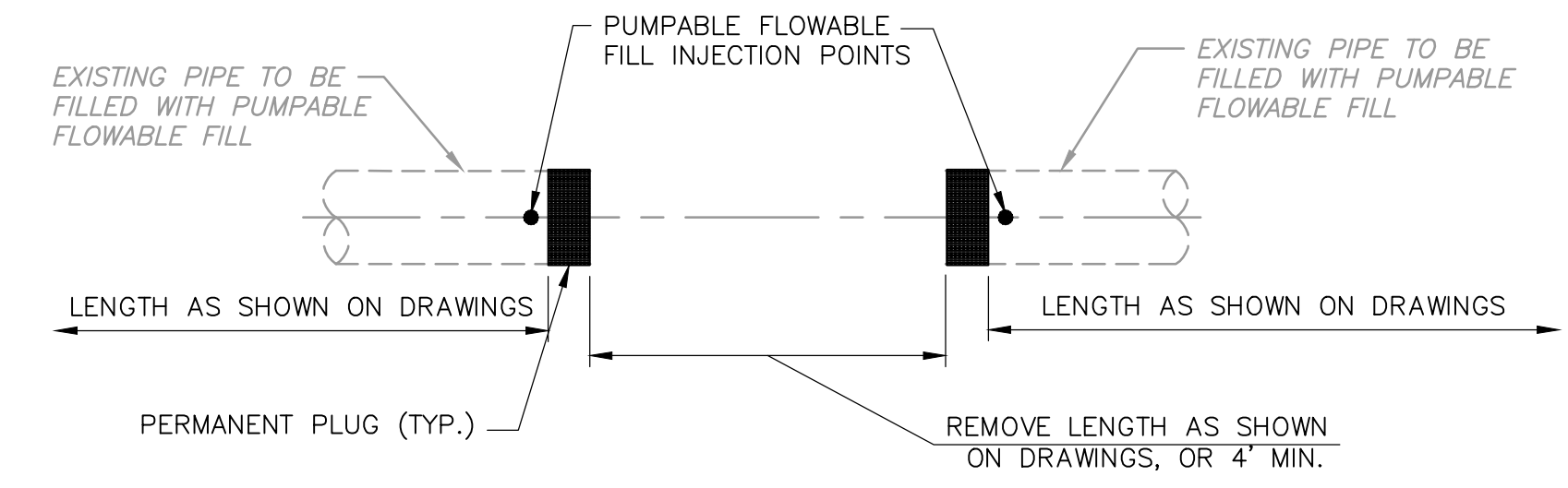
DETAIL A
NTS



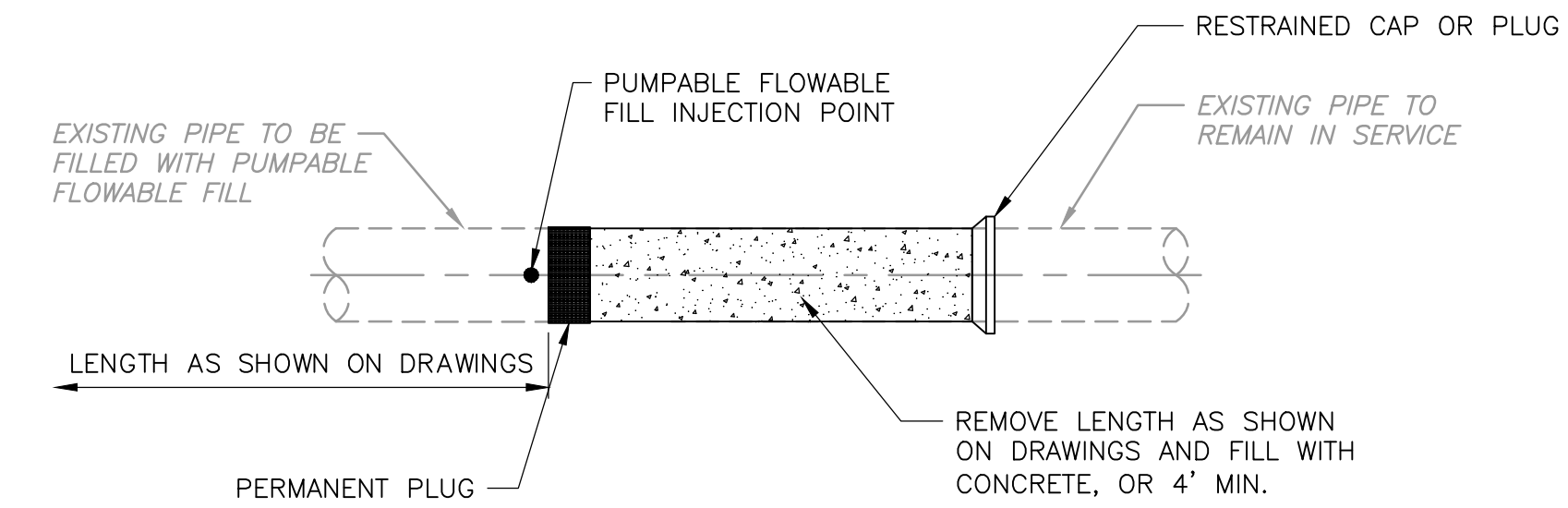
STORM SEWER CROSSING DETAIL

NOT TO SCALE
ISSUED: 7/31/18
DETAIL NUMBER
18

DETAIL B
NTS

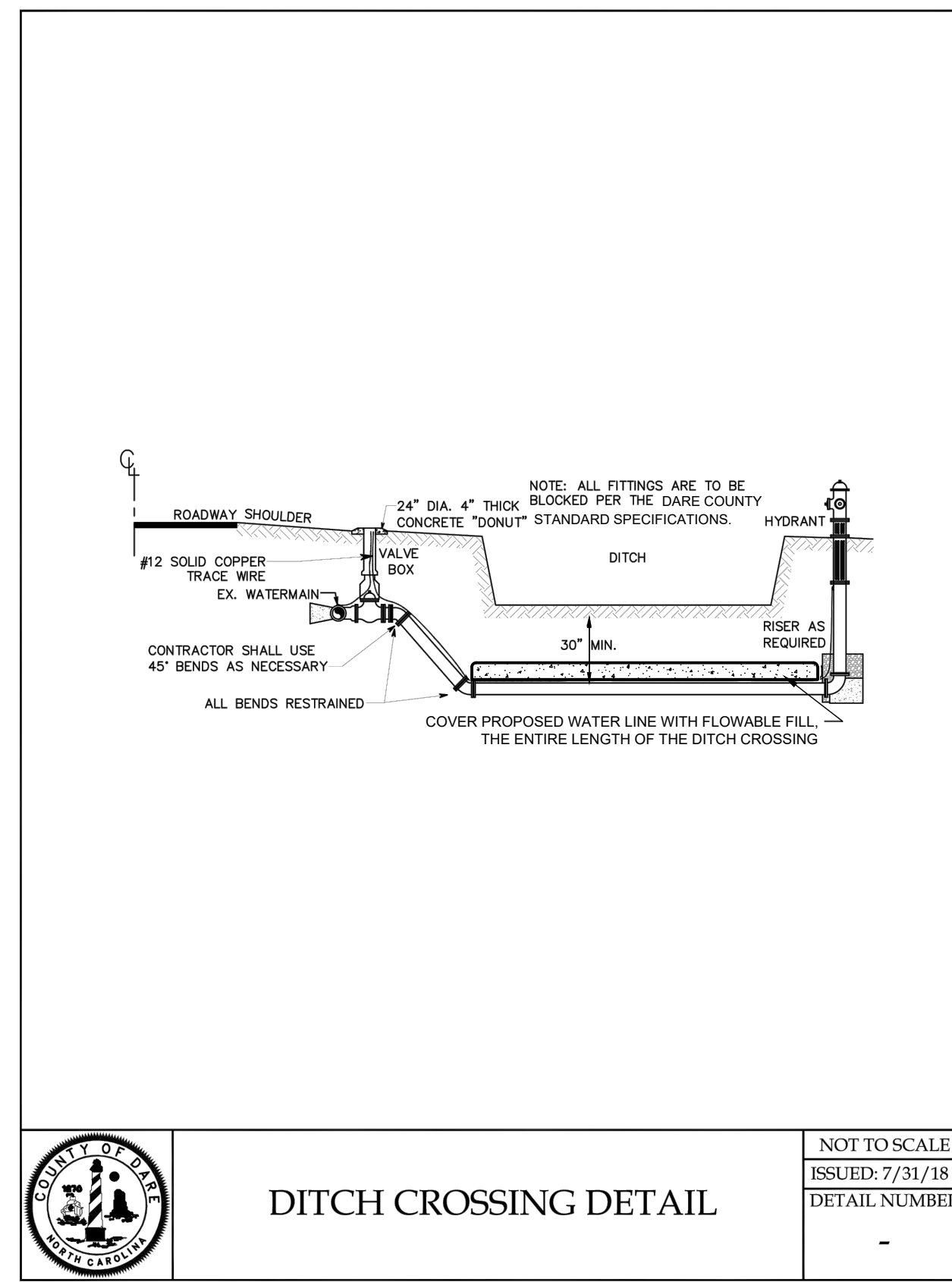


TYPICAL IN-LINE PIPE CUT AND PLUG



TYPICAL IN-LINE PIPE CUT AND RESTRAINED PLUG

DETAIL C
NTS



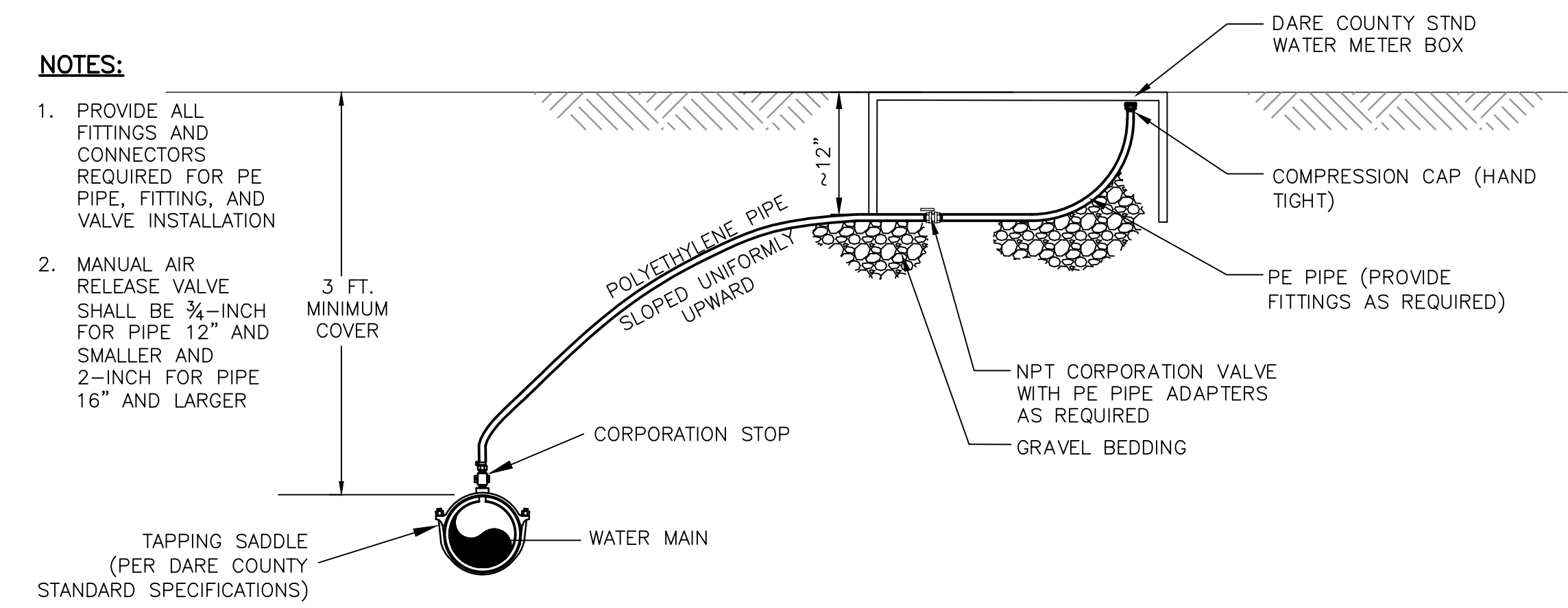
DITCH CROSSING DETAIL

NOT TO SCALE
ISSUED: 7/31/18
DETAIL NUMBER
-

DETAIL D
NTS

NOTES:

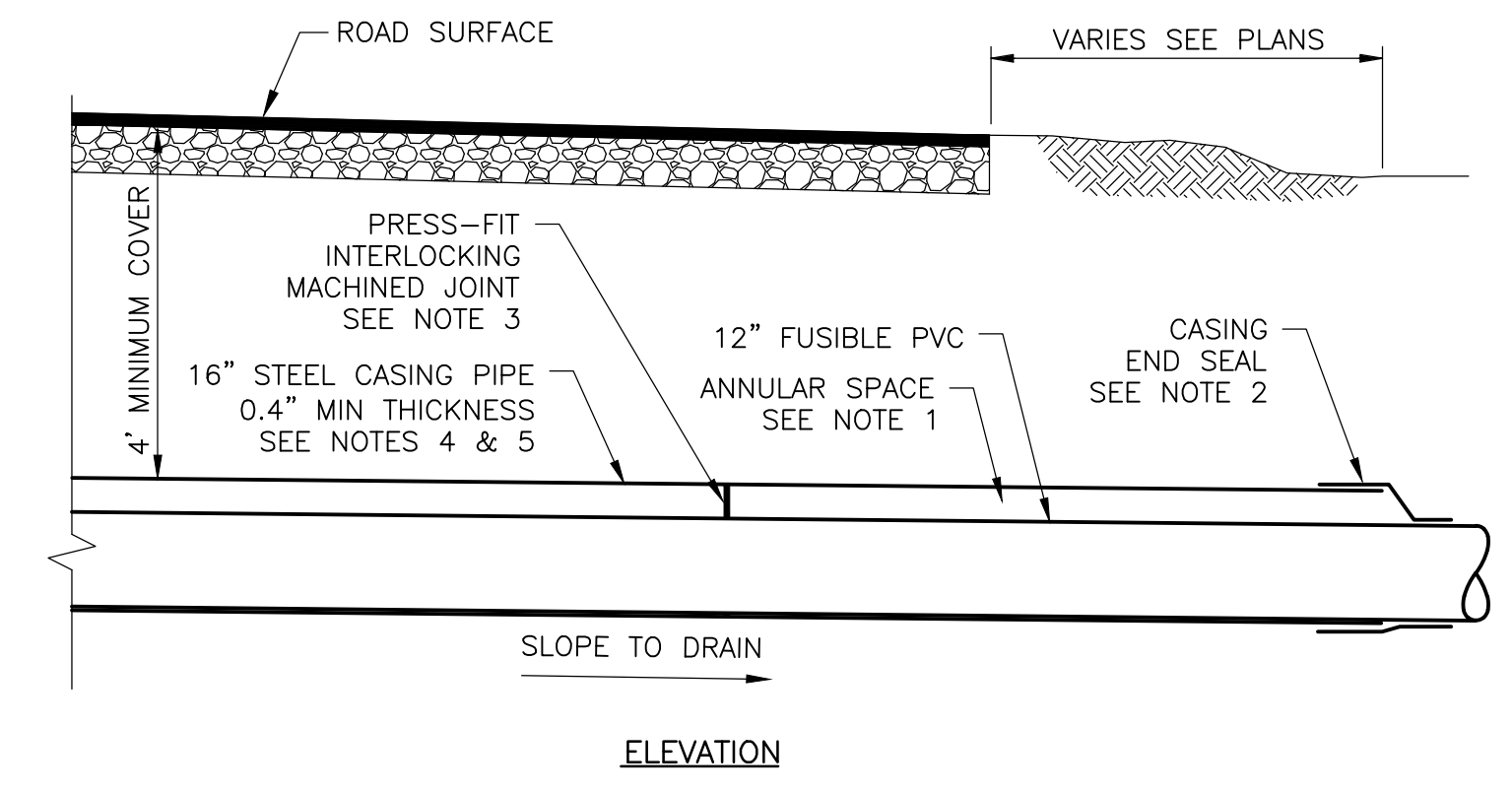
1. PROVIDE ALL FITTINGS AND CONNECTORS REQUIRED FOR PE PIPE, FITTING, AND VALVE INSTALLATION
2. MANUAL AIR RELEASE VALVE SHALL BE 3/4-INCH FOR PIPE 12" AND SMALLER AND 2-INCH FOR PIPE 16" AND LARGER



MANUAL AIR RELEASE VALVE

NOT TO SCALE
ISSUED: 7/31/18
DETAIL NUMBER
-

DETAIL E
NTS



INTERLOCKING STEEL ENCASING PIPE

NOT TO SCALE
ISSUED: 7/31/18
DETAIL NUMBER
-

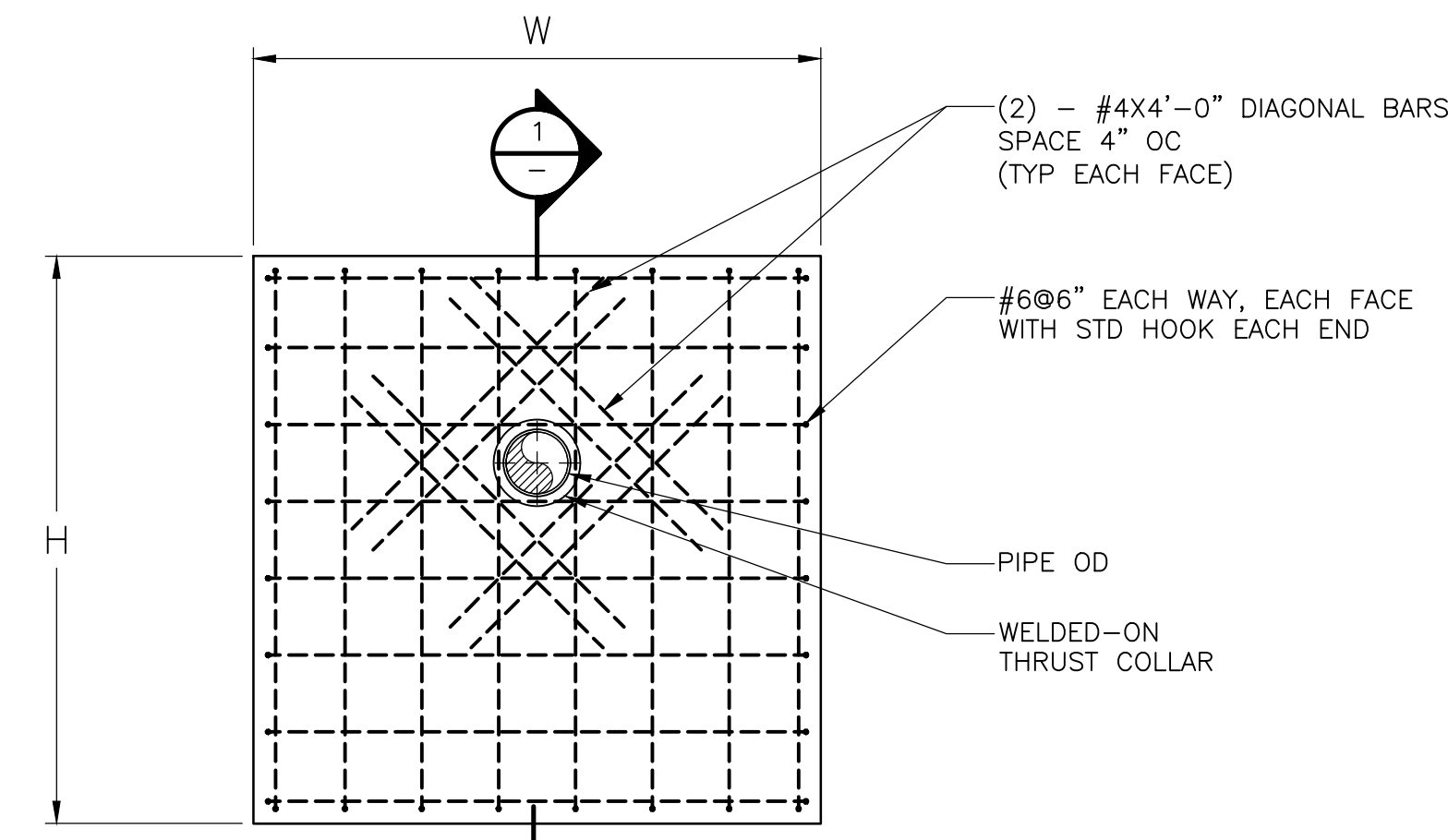
DETAIL F
NTS

NOTES:

1. ANNULAR SPACE TO REMAIN OPEN AND SHALL NOT BE FILLED OR GROUTED.
2. INSTALL CASING END SEALS WITH STAINLESS STEEL BANDS AS MANUFACTURED BY PIPELINE SEAL AND INSULATOR, INC., ADVANCE PRODUCTS & SYSTEMS, LLC, WESTLANTIC TECH, OR APPROVED EQUAL.
3. MACHINED JOINT SHALL BE PERMALOK AB JOINT BY NORTHWEST PIPE COMPANY, TRI-LOC BY TRINITY PRODUCTS, OR APPROVED EQUAL. MACHINED JOINT SHALL BE LEAK RESISTANT UTILIZING A SILICONE SEALANT OR APPROVED EQUAL.
4. CASING PIPE TO BE INSTALLED VIA OPEN CUT ACCORDANCE WITH SPECIFICATIONS AND DETAIL F ON SHEET UC-3C.
5. MINIMUM ENCASMENT PIPE THICKNESS MAY ONLY BE MODIFIED WITH STRUCTURAL DESIGN CALCULATIONS PREPARED AND STAMPED BY A PROFESSIONAL ENGINEER REGISTERED IN THE STATE OF NORTH CAROLINA. THE CALCULATIONS SHALL CERTIFY A DURABILITY AND A DESIGN LIFE OF 100 YEARS. THE CALCULATIONS SHALL INCLUDE A RATE OF CORROSION FOR STEEL PIPE BASED ON THE SUBSURFACE CONDITIONS AT EACH ENCASMENT LOCATION. THE SUBSURFACE CONDITIONS AND RATE OF CORROSION FOR STEEL PIPE SHALL BE OBTAINED FROM SUBSURFACE TESTING AT EACH LOCATION PERFORMED AND CERTIFIED BY A GEOTECHNICAL SERVICES FIRM LICENSED IN THE STATE OF NORTH CAROLINA.

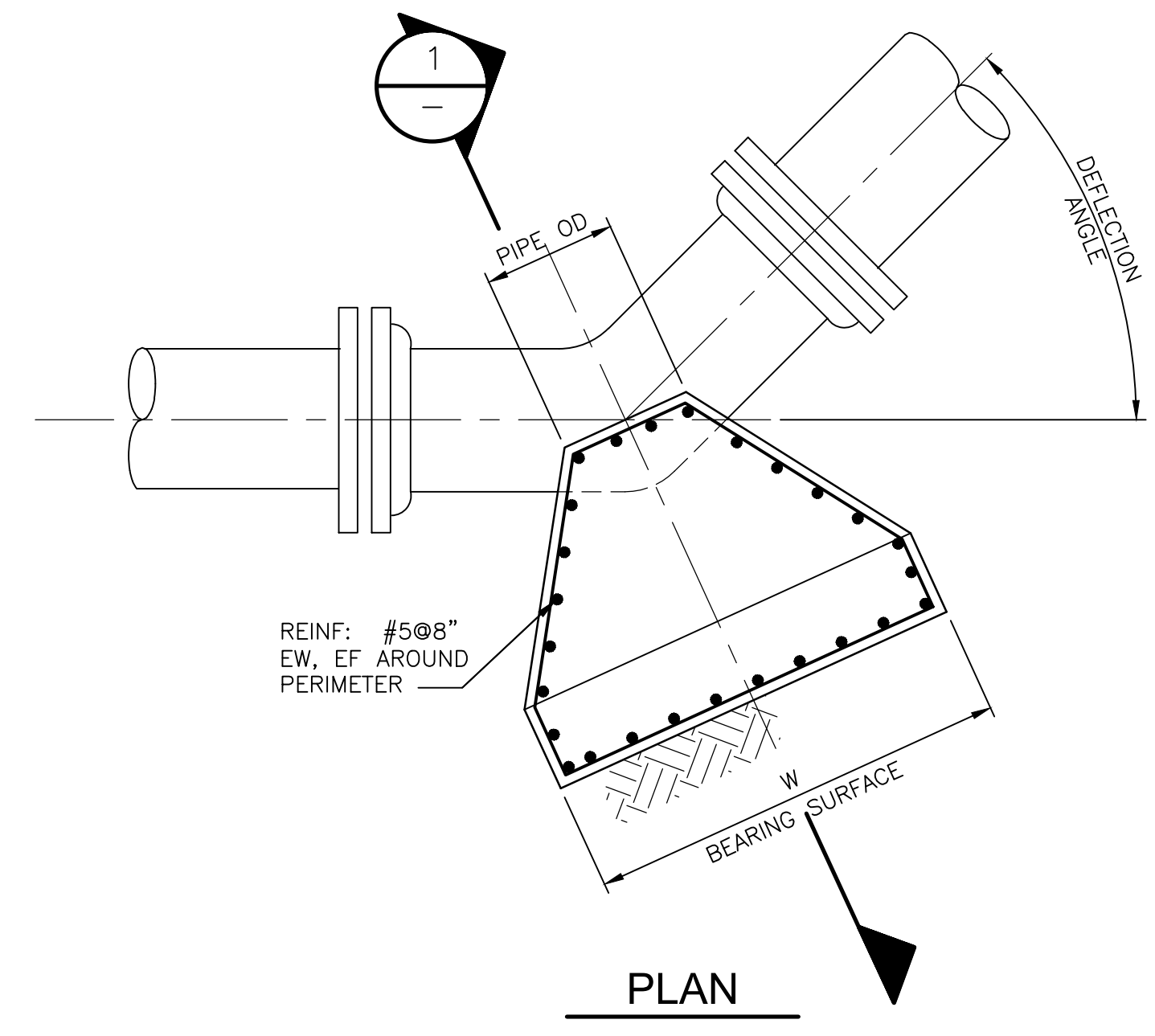
REVISIONS

8/17/19

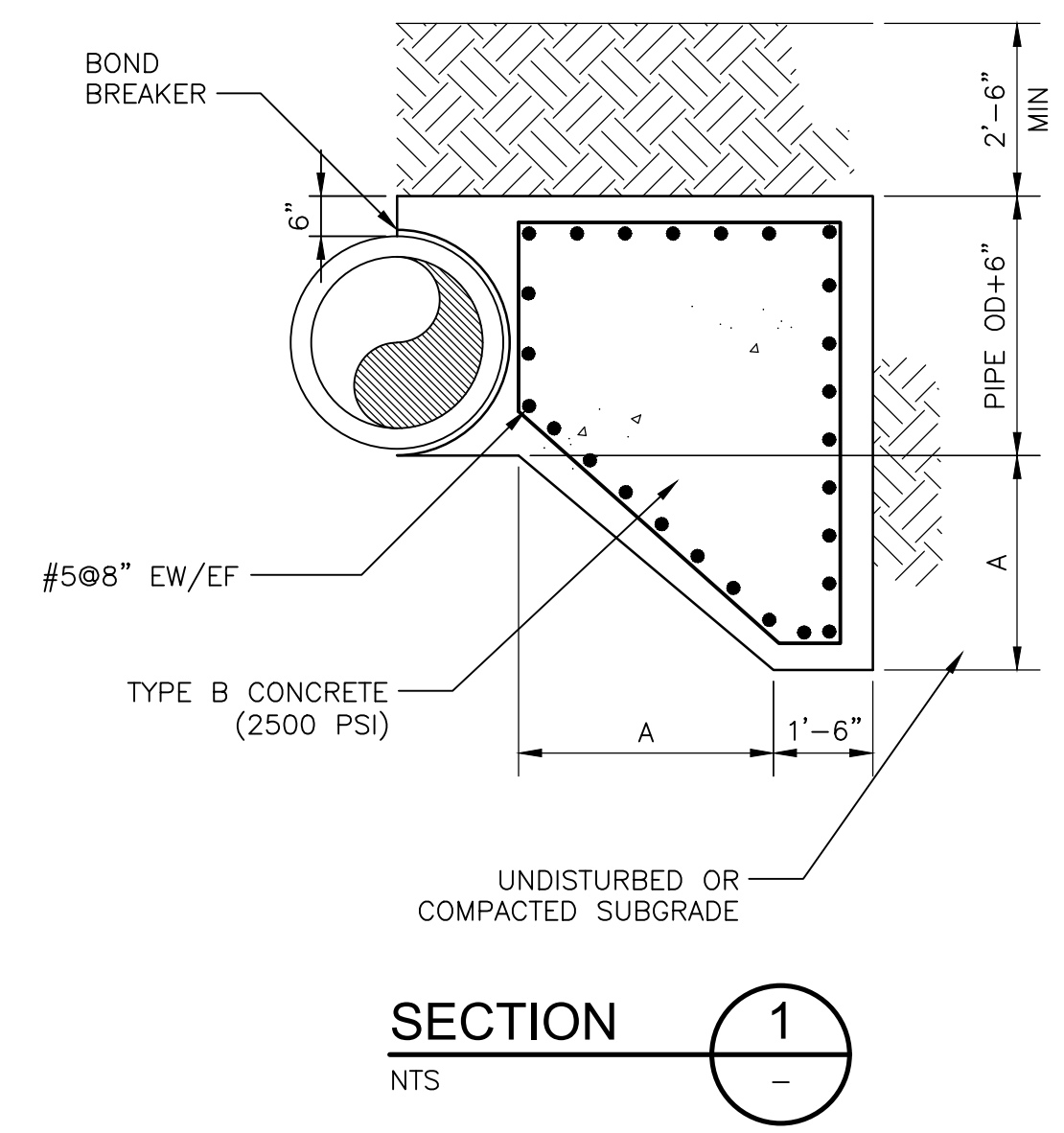


THRUST COLLAR
DETAIL A
 NTS

NOMINAL PIPE SIZE	H	W
6"	5'-3"	5'-3"
8"	6'-3"	6'-0"
12"	8'-0"	7'-6"

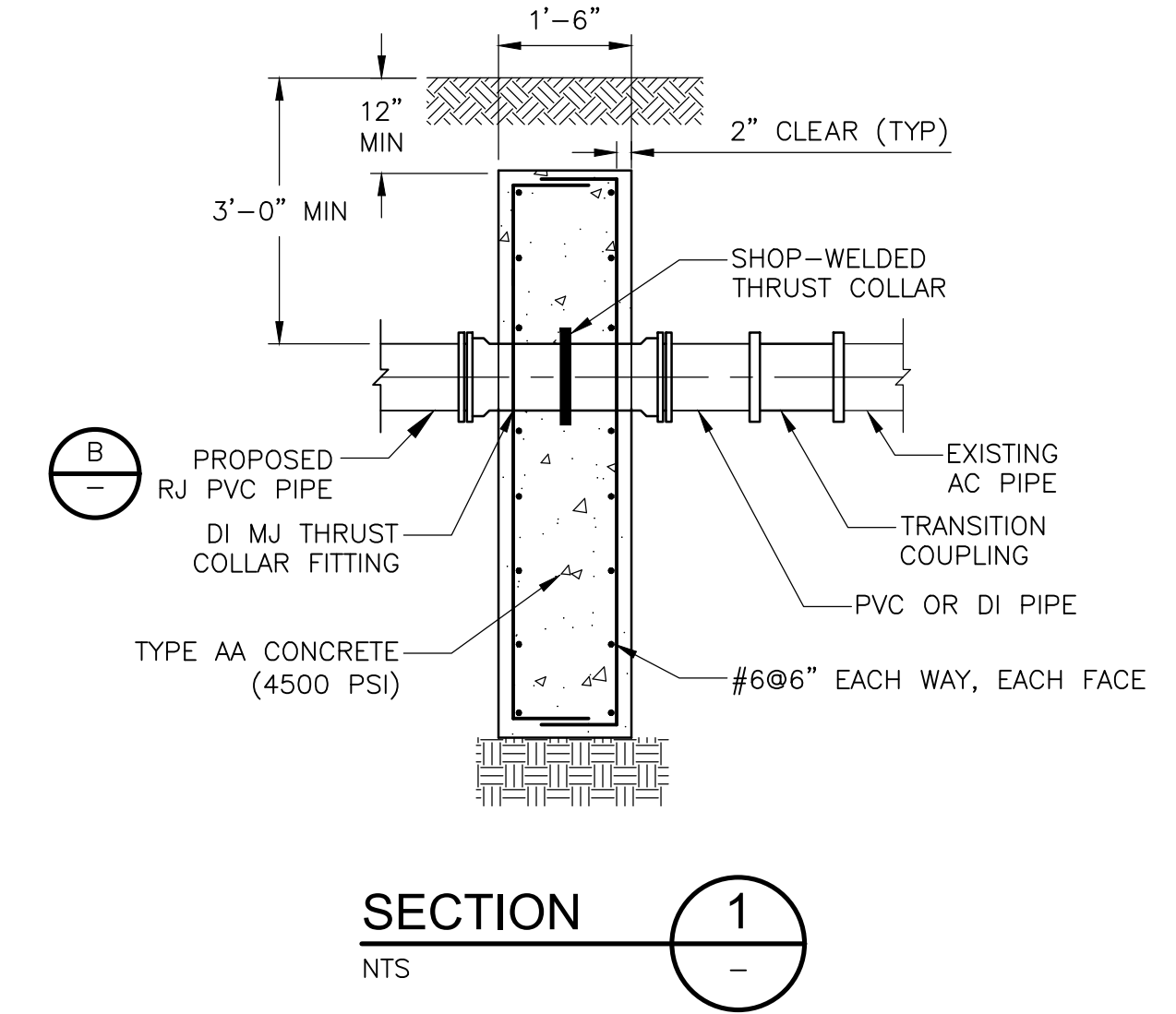


THRUST BLOCKS
DETAIL B
 NTS

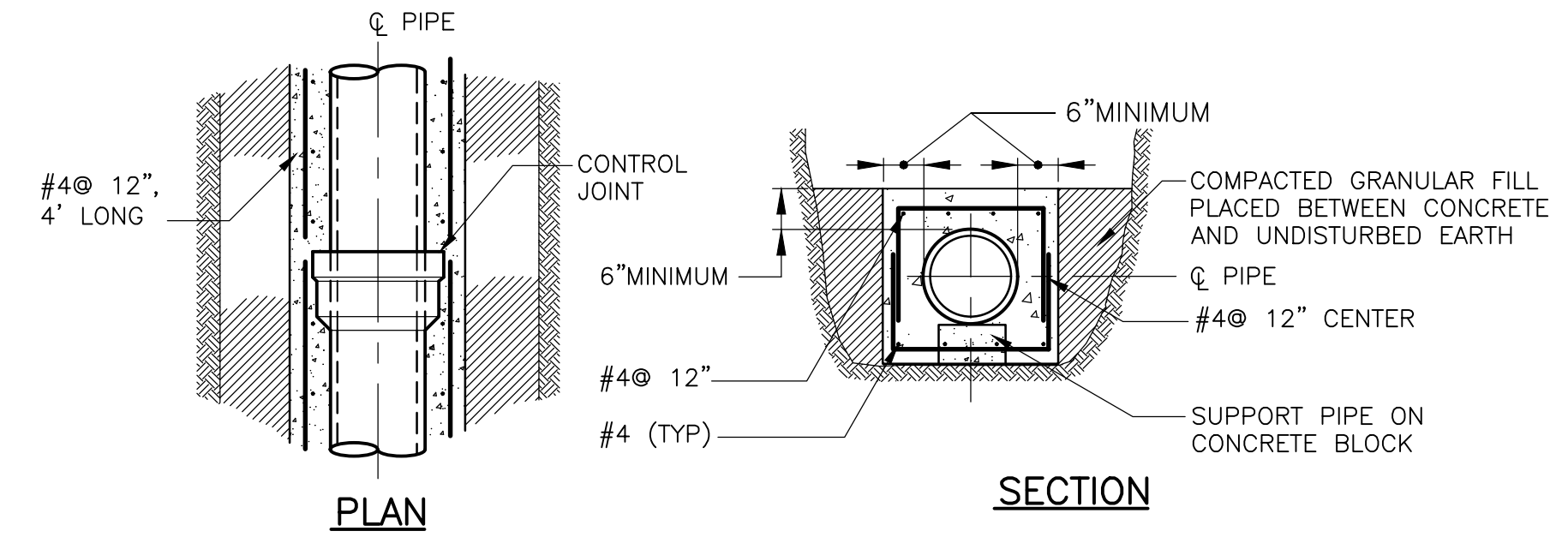


SECTION 1
 NTS

NOMINAL PIPE SIZE	11.25 DEG		22.5 DEG		45 DEG		90 DEG		TEE/DEAD END	
	A	W	A	W	A	W	A	W	A	W
4"	1'-5"	2'-0"	1'-11"	2'-9"	2'-8"	3'-3"	3'-5"	4'-0"	2'-11"	3'-6"
6"	1'-9"	2'-9"	2'-6"	3'-3"	3'-6"	4'-3"	4'-6"	5'-3"	3'-9"	4'-6"
8"	2'-0"	3'-3"	3'-0"	4'-0"	4'-0"	5'-0"	5'-3"	6'-3"	4'-6"	5'-6"
12"	2'-8"	4'-0"	3'-8"	5'-3"	5'-2"	6'-6"	6'-8"	8'-3"	5'-11"	7'-3"

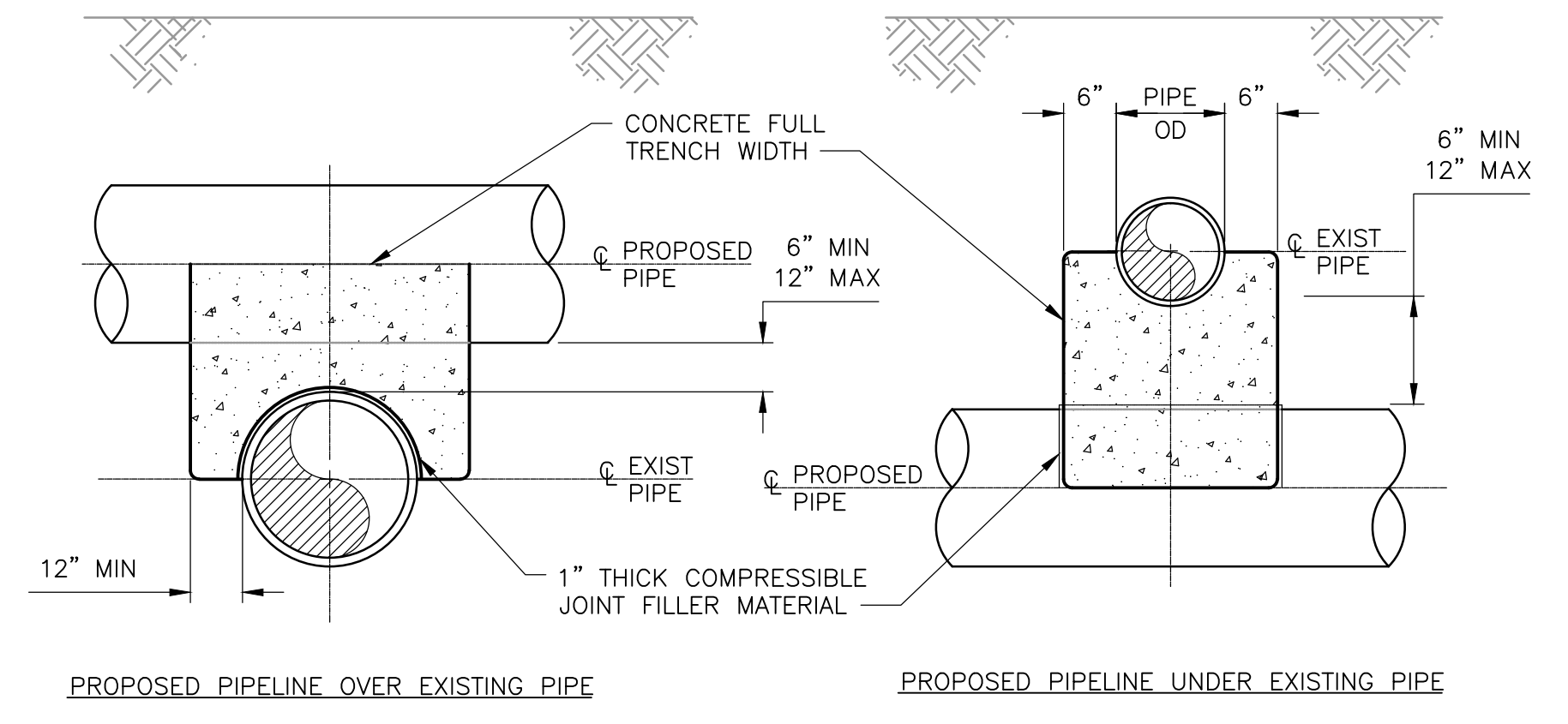


SECTION 1
 NTS



- NOTES:**
- CONTROL JOINTS SHALL COINCIDE WITH PIPE JOINTS, MAXIMUM DISTANCE BETWEEN CONTROL JOINTS SHALL BE 24' +/-
 - CONCRETE BLOCK SUPPORT SIZE AND SPACING SHALL BE PER MANUFACTURERS RECOMMENDATIONS.
 - ENCASUREMENT SHALL BE CAST IN NO LESS THAN TWO POURS. INITIAL CAST SHALL BE CURED FOR 12 HOURS BEFORE CASTING THE NEXT POUR.
 - DEPTH OF INITIAL POUR SHALL BE SELECTED TO PREVENT FLOTATION OF THE PIPE. THE CONTRACTOR SHALL TAKE ALL NECESSARY MEASURES TO PREVENT FLOTATION OF THE PIPE DURING CASTING.

CONCRETE ENCASEMENT
DETAIL C
 NTS



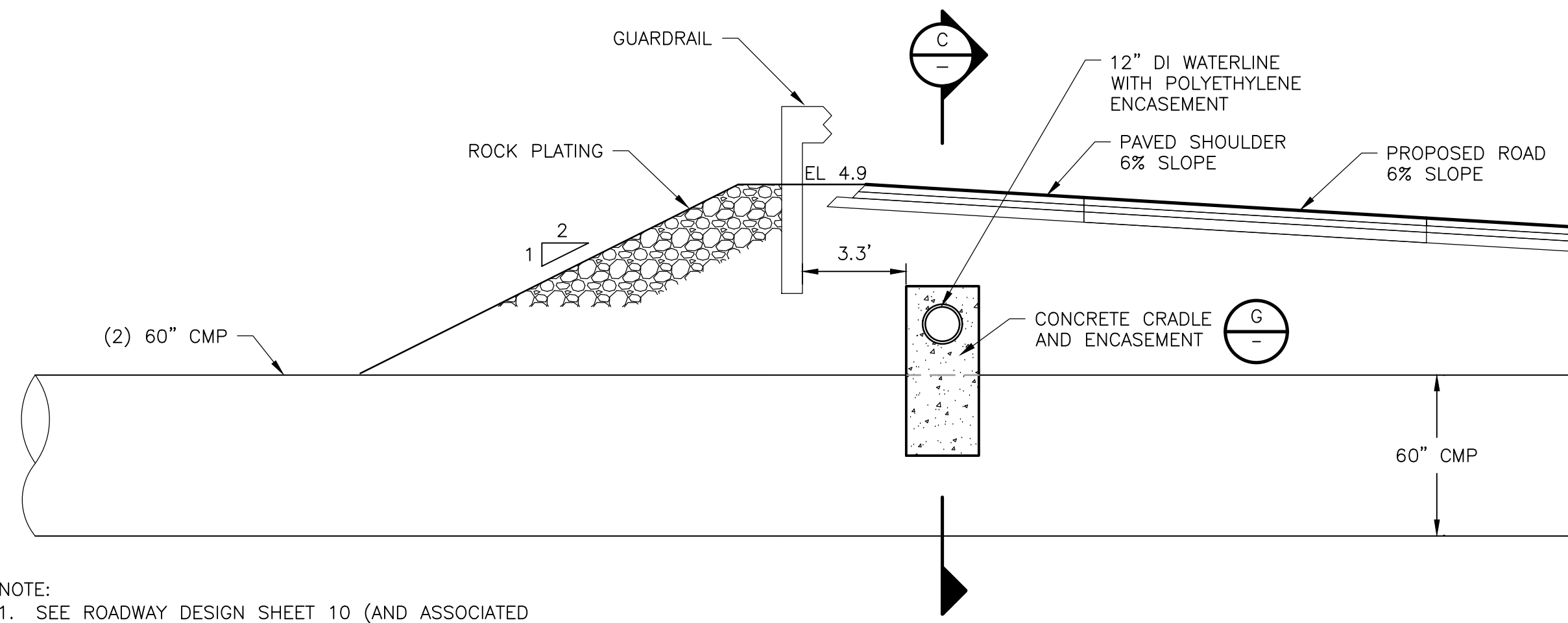
CONCRETE PIPE CRADLE
DETAIL D
 NTS

THRUST COLLAR AND THRUST BLOCK NOTES

- IF OPEN-CUT EXCAVATION IS TO BE USED FOR THE CONSTRUCTION OF A THRUST BLOCK OR COLLAR, ENGINEERED FILL SHALL BE USED AS THE BACKFILL MATERIAL. THE FOLLOWING BACKFILL RECOMMENDATIONS SHALL BE CONSIDERED A MINIMUM:
 ENGINEERED FILL SHOULD BE UNIFORMLY COMPACTED IN 10-INCH MAXIMUM LIFTS TO AT LEAST 98 PERCENT OF THE MODIFIED PROCTOR MAXIMUM DRY DENSITY (ASTM D1557).
 THE MOISTURE CONTENT OF THE FILL SOILS AT THE TIME OF COMPACTION SHOULD BE WITHIN 2 PERCENT OF THE OPTIMUM MOISTURE CONTENT AS DETERMINED BY ASTM D698.
 FLOWABLE FILL IS AN ACCEPTABLE ALTERNATIVE TO THE COMPACTION REQUIREMENTS ABOVE.
- ASSUMPTIONS: PVC PIPE, SAFETY FACTOR=1.5, MAX TEST PRESSURE=200 PSI, SOIL = SP, $\gamma = 100 \text{ lb/ft}^3$, MAX BEARING STRENGTH = 1,000 LB/FT², TOP 2' OF SOIL NEGLECTED IN CALCULATION OF SOIL BEARING CAPACITY.
- THE ENTIRE THRUST BLOCK OR THRUST COLLAR SHALL BE A MONOLITHIC CONCRETE POUR WITH NO JOINTS IN THE STRUCTURE.
- CONTRACTOR SHALL ENGAGE A GEOTECHNICAL SERVICES FIRM LICENSED IN THE STATE OF NORTH CAROLINA AND HAVE A SOIL BORING PERFORMED WITHIN 5' OF EACH PROPOSED THRUST BLOCK OR COLLAR LOCATION. CONTRACTOR TO SUBMIT CERTIFIED BORING LOGS PERFORMED AT EACH OF THE THRUST BLOCK LOCATIONS TO THE ENGINEER. MIN DEPTH OF 20'.
- BORINGS MUST BE RECEIVED PRIOR TO APPROVAL OF CONCRETE OR REINFORCING STEEL SHOP DRAWINGS. THE TABLE SHOWN IN DETAIL A MAY NOT BE UTILIZED WITHOUT WRITTEN APPROVAL FROM THE ENGINEER.
- THE DIMENSIONS AND REINFORCING SHOWN ARE THE BASE BID AND MAY BE MODIFIED BY THE ENGINEER TO SUIT FIELD CONDITIONS.
- BORINGS TO BE PERFORMED IN ACCORDANCE WITH ASTM D-1586, AND WITH THE FOLLOWING MINIMUM SAMPLING FREQUENCY: BORING SHALL BE CONTINUOUSLY SAMPLED TO 10', BORING SHALL BE SAMPLED AT 15' AND 20'.
- BORING LOGS SHALL INDICATE GROUNDWATER ELEVATION AT TIME OF DRILLING. ALSO MEASURE AND RECORD THE GROUNDWATER LEVEL AT LEAST ONE HOUR AFTER DRILLING IS COMPLETED BEFORE BACKFILLING THE BORE HOLES.
- THRUST COLLAR AND THRUST BLOCK SHALL HAVE DEVELOPED 70% OF THE SPECIFIED CONCRETE STRENGTH PRIOR TO PRESSURIZING THE PIPELINE.
- ALL PIPE JOINTS BETWEEN THRUST COLLARS OR THRUST BLOCKS AND GATE VALVE SHALL BE RETAINED, AND PIPE JOINTS PAST THE GATE VALVE SHALL BE RESTRAINED AS SPECIFIED IN DETAIL A ON SHEET UC-3C.

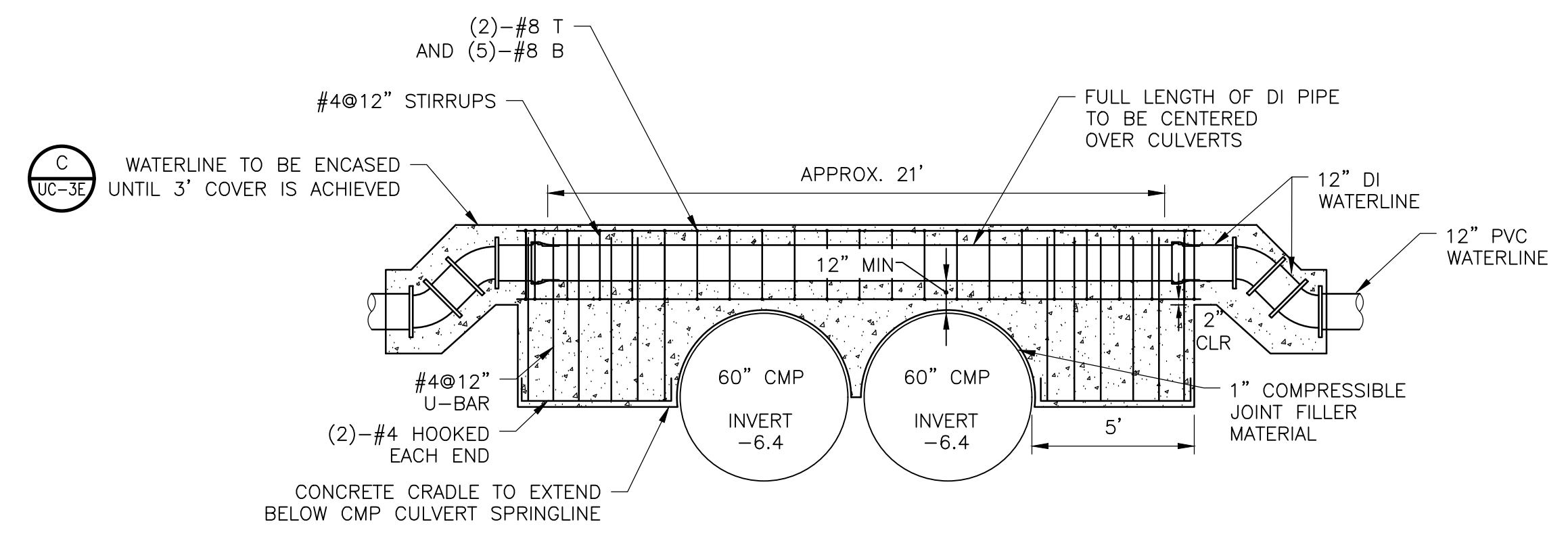
REVISIONS

8/17/99

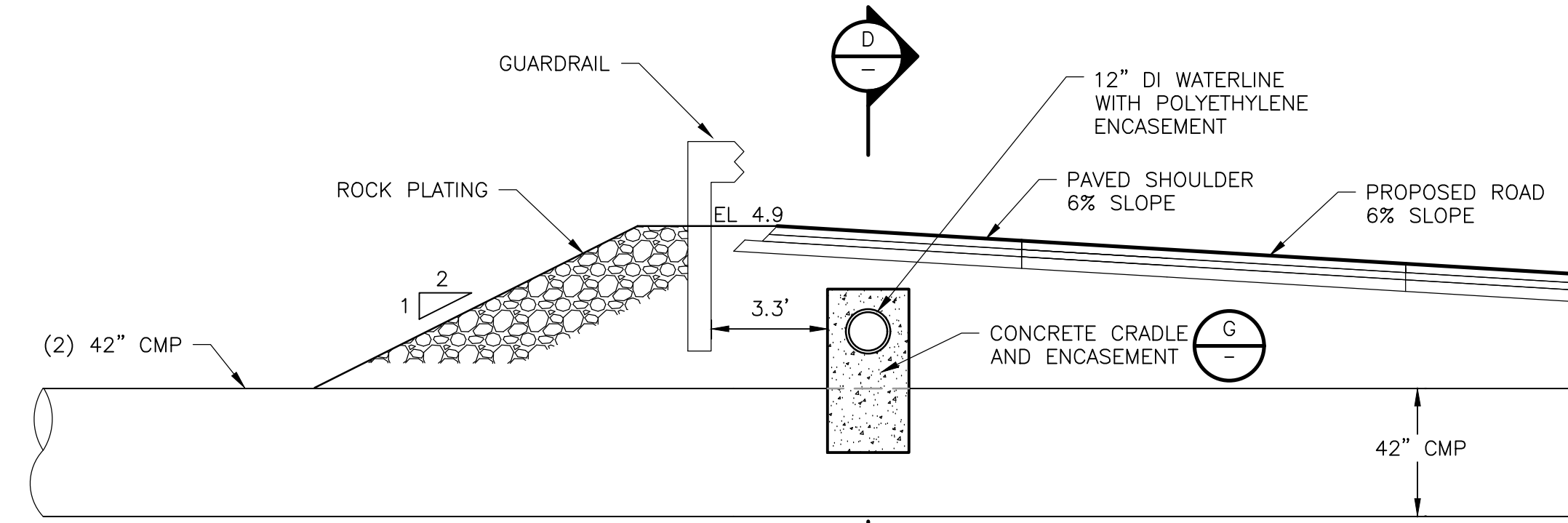


NOTE:
1. SEE ROADWAY DESIGN SHEET 10 (AND ASSOCIATED ROADWAY SECTIONS AND DETAILS) FOR THE CMP PIPE, PIPE COLLAR, ROCK PLATING, GUARDRAIL, PROPOSED GRADE AND ROADWAY DESIGN AT THIS LOCATION.

CONCRETE CRADLE AND ENCASEMENT
-L- STATION 104+25
SECTION A
NTS UC-8

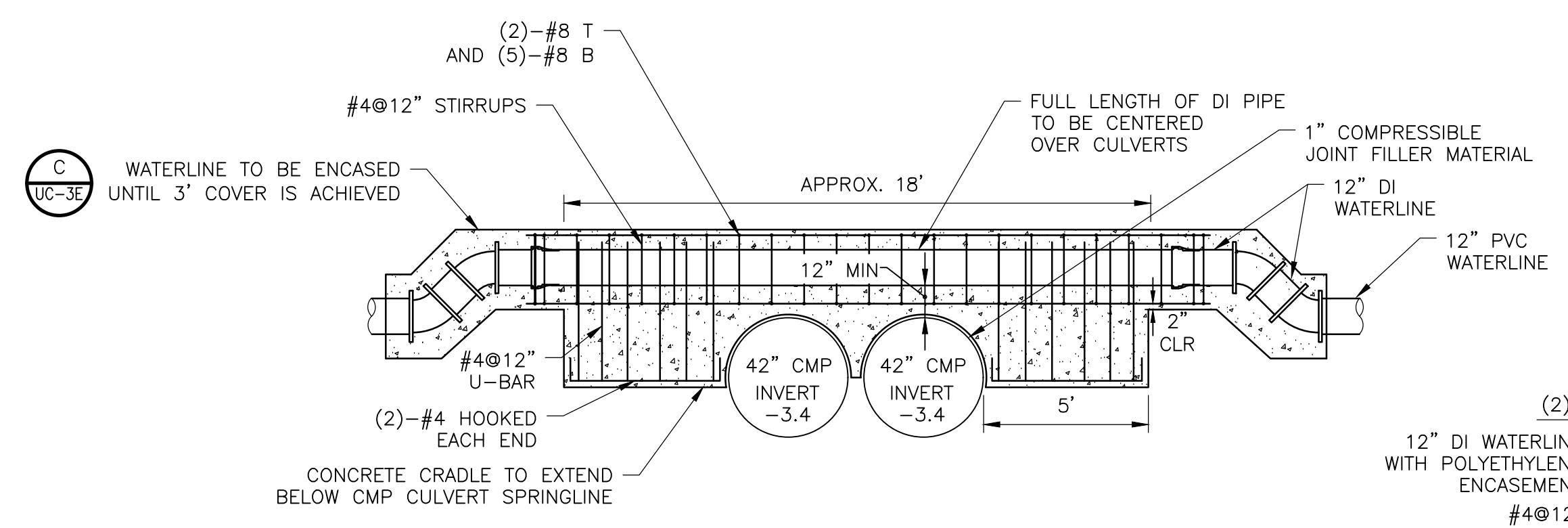


CONCRETE CRADLE AND ENCASEMENT
ELEVATION C
NTS UC-8

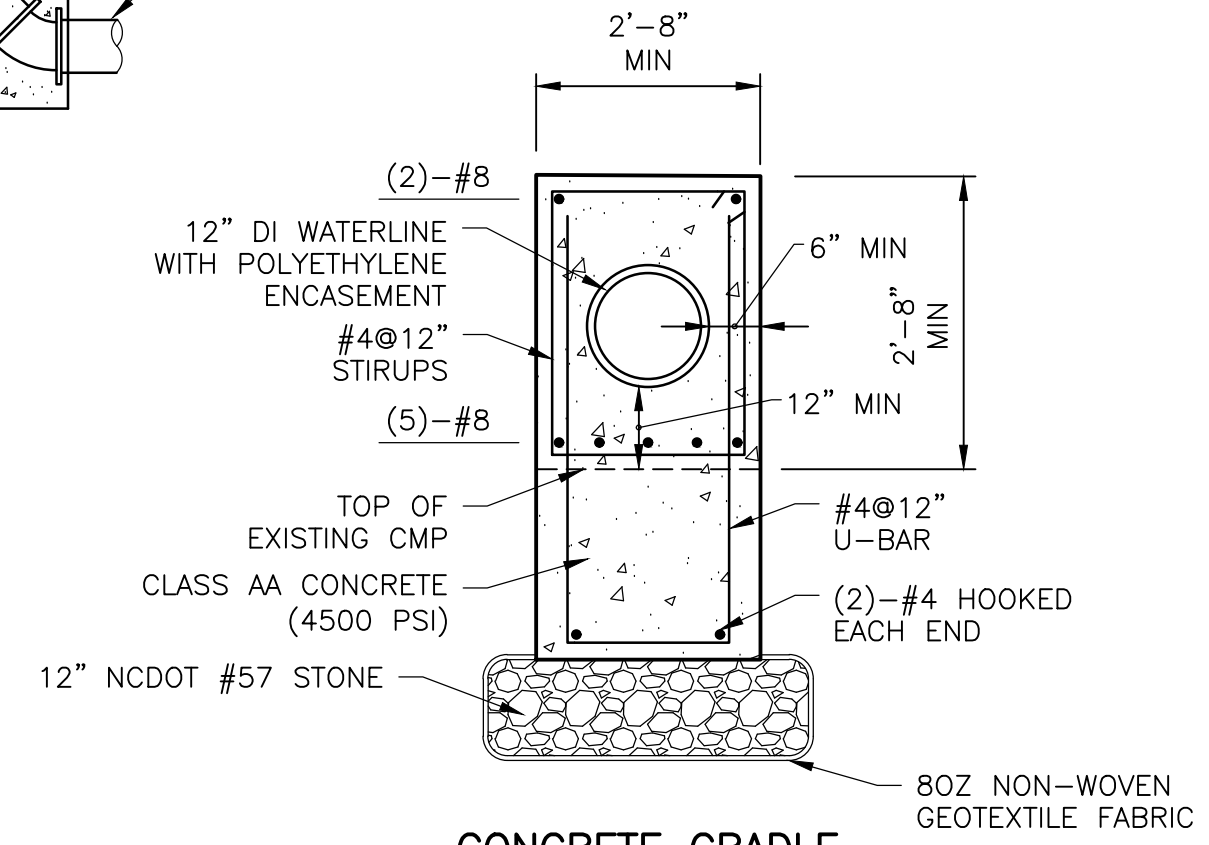


NOTE:
1. SEE ROADWAY DESIGN SHEET 12 (AND ASSOCIATED ROADWAY SECTIONS AND DETAILS) FOR THE CMP PIPE, PIPE COLLAR, ROCK PLATING, GUARDRAIL, PROPOSED GRADE AND ROADWAY DESIGN AT THIS LOCATION.

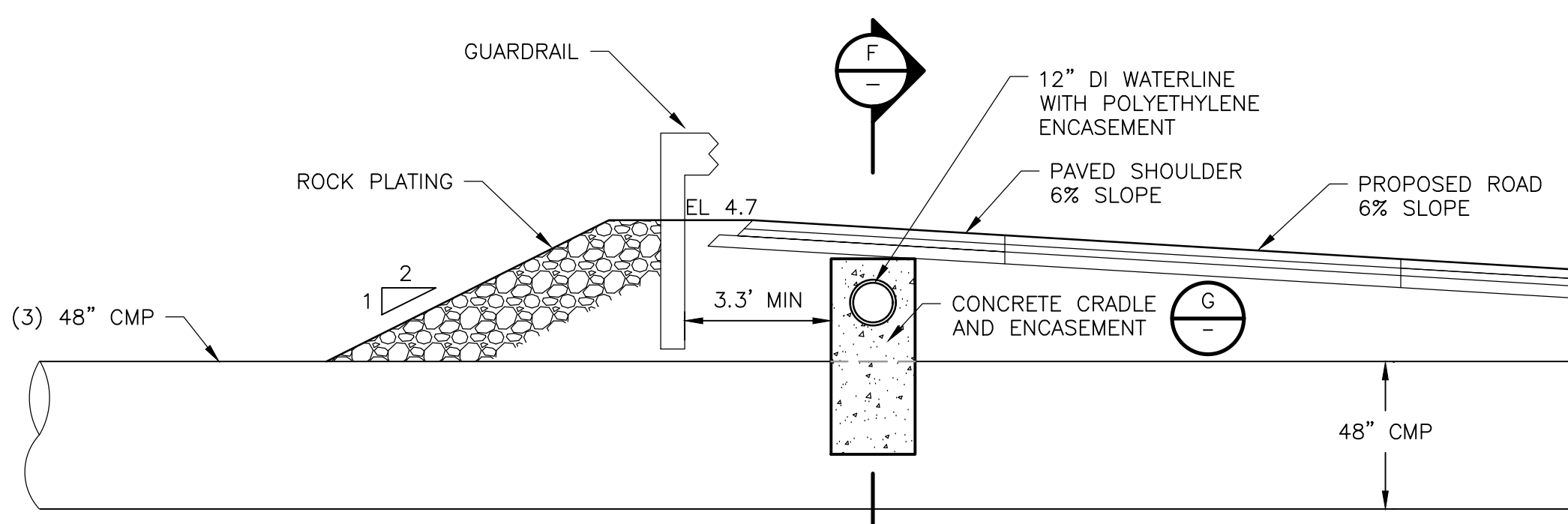
CONCRETE CRADLE AND ENCASEMENT
-L- STATION 126+76
SECTION B
NTS UC-10



CONCRETE CRADLE AND ENCASEMENT
ELEVATION D
NTS UC-10

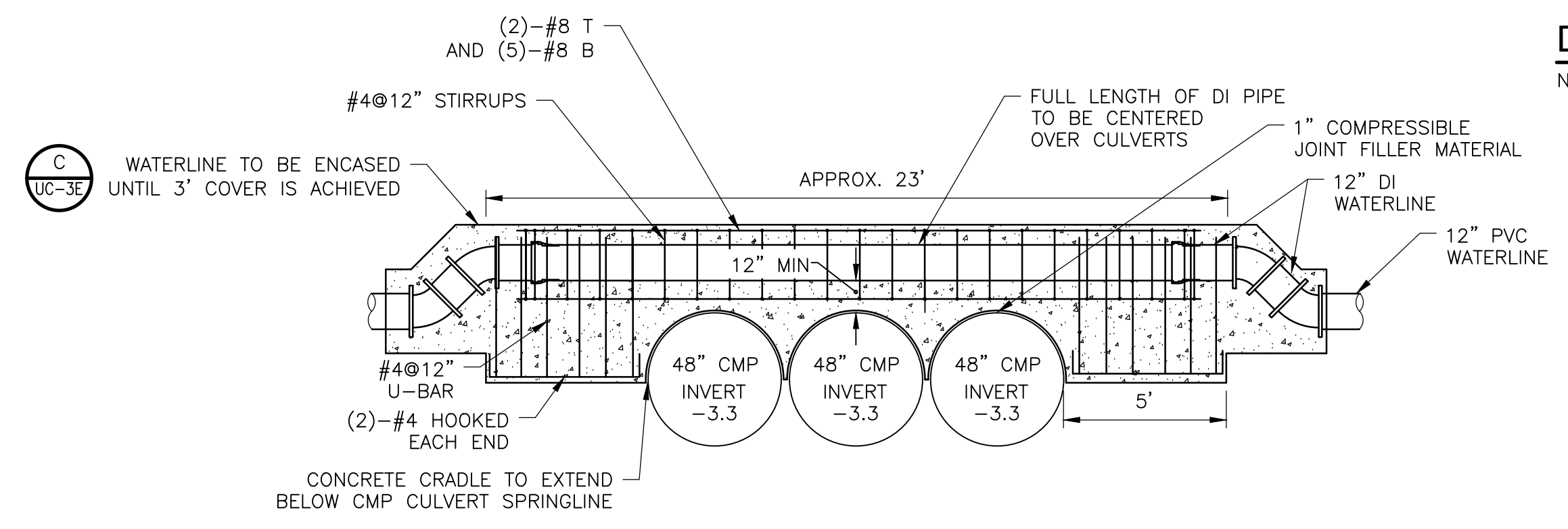


CONCRETE CRADLE
DETAIL G
NTS



NOTE:
1. SEE ROADWAY DESIGN SHEET 7 (AND ASSOCIATED ROADWAY SECTIONS AND DETAILS) FOR THE CMP PIPE, PIPE COLLAR, ROCK PLATING, GUARDRAIL, PROPOSED GRADE AND ROADWAY DESIGN AT THIS LOCATION.

CONCRETE CRADLE AND ENCASEMENT
-L- STATION 56+40
SECTION E
NTS UC-5



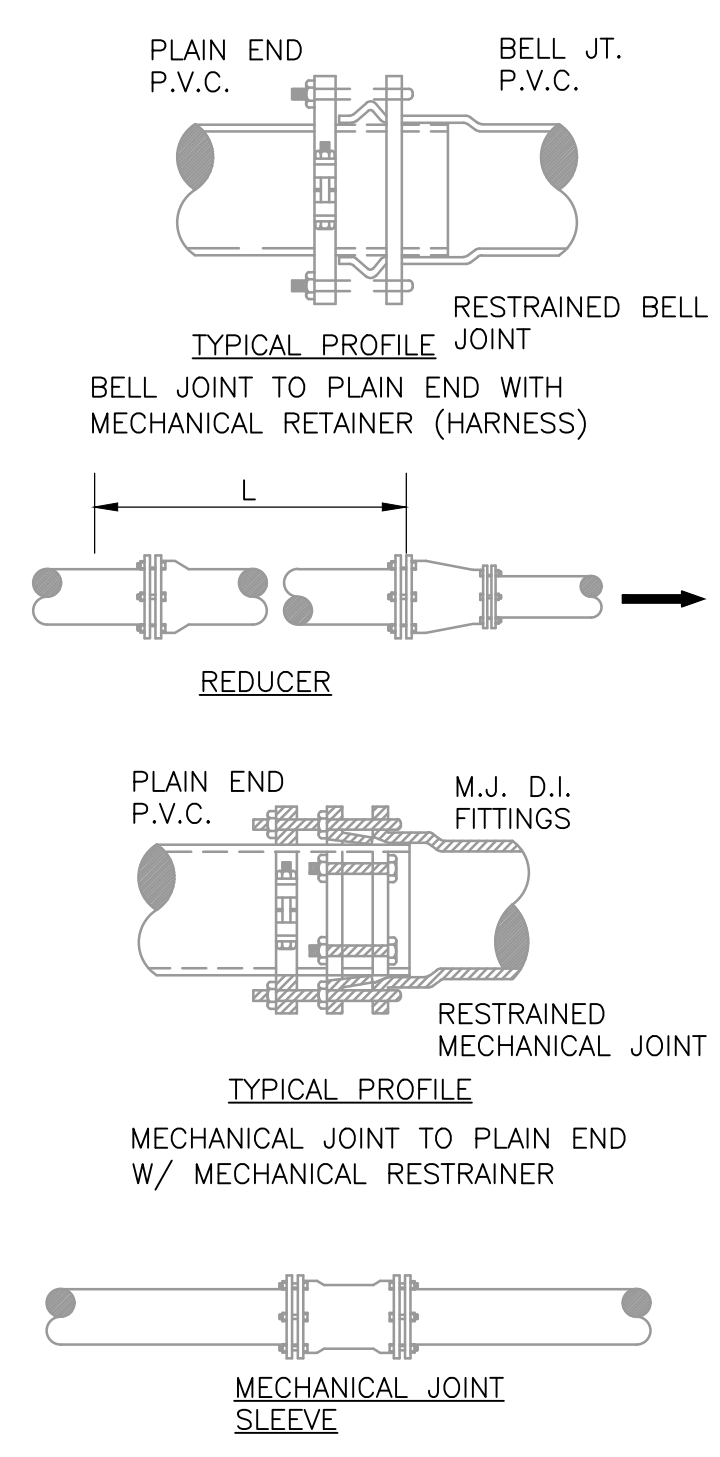
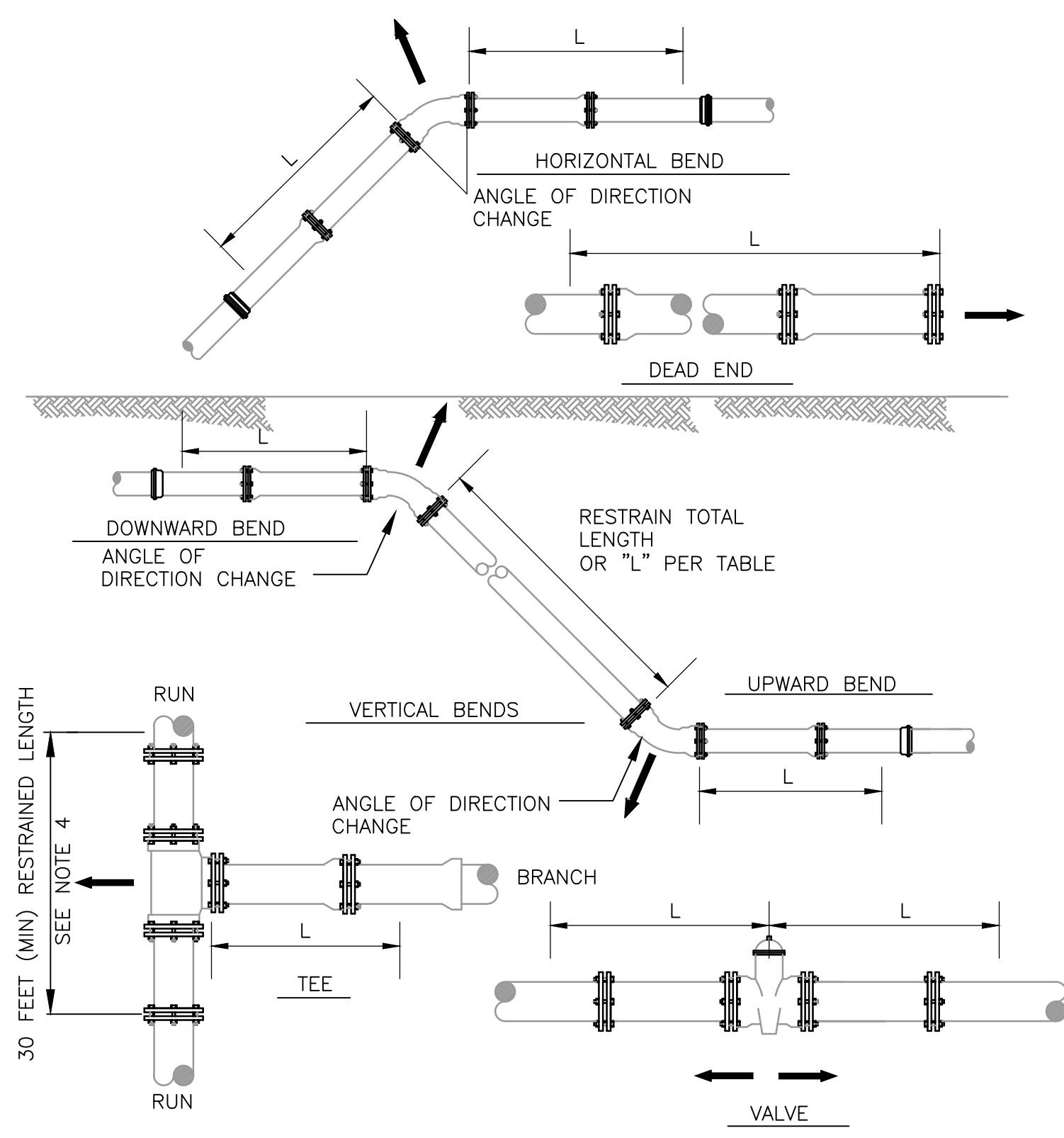
CONCRETE CRADLE AND ENCASEMENT
ELEVATION F
NTS UC-5

REVISIONS

8/17/99

UTILITY CONSTRUCTION

**DOCUMENT NOT CONSIDERED FINAL
UNLESS ALL SIGNATURES COMPLETED**



PVC PIPE RESTRAINT NOTES:

- THIS SCHEDULE SHALL BE UTILIZED ON ALL PVC PIPING.
- ASSUMPTIONS: PVC PIPE, SAFETY FACTOR=1.5, TEST PRESSURE=200 PSI, SOIL = SP, TRENCH TYPE 5, DEPTH OF COVER=36". CALCULATIONS DONE IN ACCORDANCE WITH AWWA M23 AND M41 MANUALS.
- BENDS AND VALVES: SHALL BE RESTRAINED ON EACH SIDE OF FITTING.
- TEES: TOTAL LENGTH BETWEEN FIRST JOINTS OR RESTRAINED LENGTH ON EITHER SIDE OF TEE (RUN) SHALL BE A TOTAL DISTANCE OF 30 FEET (MIN). SEE SCHEDULE FOR RESTRAINT LENGTH ON TEE "BRANCH" LINE.
- CONTRACTOR SHALL USE FULL (20 FT NOMINAL) LENGTH JOINTS OF PVC PIPE INTO AND OUT OF EACH FITTING UNLESS OTHERWISE DIRECTED. WHERE SHORTER JOINTS ARE REQUIRED ON EITHER SIDE OF A FITTING ADDITIONAL JOINT RESTRAINT MAY BE REQUIRED BY USE OF HARNESS ASSEMBLIES.
- FIRST JOINT BEYOND LENGTH SPECIFIED IN SCHEDULE SHALL BE RESTRAINED IN ACCORDANCE WITH THE SPECIFICATIONS. FOR EXAMPLE, IF 23 FEET OF RESTRAINT IS REQUIRED, FITTING AND NEXT TWO PIPE JOINTS SHALL BE RESTRAINED (ASSUMING 20 FOOT NOMINAL LENGTH OF ONE JOINT OF PIPE), FOR A TOTAL RESTRAINED LENGTH OF 40 FEET.
- WHERE NON-STANDARD CIRCUMSTANCES ARISE IN THE FIELD CONSULT THE ENGINEER PRIOR TO INSTALLATION OF RESTRAINT SYSTEMS. FAILURE TO CONSULT THE ENGINEER MAY REQUIRE EXCAVATION AND ADJUSTMENT TO THE RESTRAINED JOINT ASSEMBLIES.
- ALL FITTINGS USED ON 4" AND LARGER PVC PIPING SHALL BE DUCTILE IRON MECHANICAL JOINT FITTINGS.
- FITTINGS SHALL BE RESTRAINED BY USE OF A MECHANICAL JOINT RETAINER GLAND DESIGNED FOR USE WITH PVC PIPING. PIPE JOINTS SHALL BE RESTRAINED BY USE OF HARNESS JOINT ASSEMBLIES DESIGNED FOR USE WITH PVC PIPE.
- THE INSTALLATION OF BELL HARNESS RESTRAINTS AT PVC JOINTS SHALL BE COMPLETED PER THE MANUFACTURERS RECOMMENDATION, WHICH INCLUDES NOT OVER TIGHTENING THE PARALLEL RODS/NUTS. THESE NUTS SHOULD ONLY BE SNUG TIGHT. THE HOME MARKS ON THE PIPE SHOULD ALWAYS BE VISIBLE AFTER THE RESTRAINT IS INSTALLED.
- WHERE ADJACENT OR OFFSET BENDS HAVE OVERLAPPING RESTRAINED LENGTH, ALL PIPE BETWEEN THE BENDS SHALL BE RESTRAINED. RESTRAINED LENGTH FOR THE OUTERMOST BEND(S) SHALL BE TWICE THE STANDARD LENGTH SHOWN IN THIS DETAIL.
- IF FIELD CONDITIONS REQUIRE LESS THAN 3 FEET OF COVER, CONTRACTOR SHALL COORDINATE WITH ENGINEER TO DETERMINE REQUIRED RESTRAINT LENGTH.
- ALL CARRIER PIPE SHALL BE RESTRAINED WITHIN AN ENCASEMENT PIPE. RESTRAINED PIPE WITHIN AN ENCASEMENT PIPE SHALL NOT COUNT TOWARDS THE REQUIRED RESTRAINED LENGTH.

SUMMARY TABLE - PVC PIPE RESTRAINED JOINT LENGTHS

NOMINAL PIPE SIZE (IN)	HORIZONTAL BENDS AND VERTICAL UPWARD BENDS				VERTICAL DOWNWARD BENDS				VALVES OR DEADENDS L (FT)
	90° BENDS L (FT)	45° BENDS L (FT)	22.5° BENDS L (FT)	11.25° BENDS L (FT)	90° BENDS L (FT)	45° BENDS L (FT)	22.5° BENDS L (FT)	11.25° BENDS L (FT)	
4	153	64	30	15	153	64	30	15	153
6	220	91	44	22	220	91	44	22	220
8	287	119	57	28	287	119	57	28	287
10	351	145	70	35	351	145	70	35	351
12	417	173	83	41	417	173	83	41	417

REDUCERS		TEES		
SIZE	L (FT)	RUN SIZE	BRANCH SIZE	L (FT)
12X10	122	4" TO 12"	4"	144
12X8	221	6" TO 12"	6"	201
12X6	303	8" TO 12"	8"	255
10X8	118	10" TO 12"	10"	304
10X6	216	12"	12"	351
8X6	120			
8X4	206			
6X4	113			

PVC PIPE RESTRAINED JOINT SCHEDULE

DETAIL A
NTS

REVISIONS

8/17/99

PROJECT REFERENCE NO.	SHEET NO.
R-5014	UC-4
DESIGNED BY: DMD	
DRAWN BY: DMD/MNG	
CHECKED BY: JDB	
APPROVED BY: CMT	
REVISED:	UTILITY CONSTRUCTION PLANS ONLY
NORTH CAROLINA DEPARTMENT OF TRANSPORTATION	
UTILITIES ENGINEERING SEC. PHONE: (919) 707-6690 FAX: (919) 250-4151	

UTILITY CONSTRUCTION

DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED

THIS SHEET CORRESPONDS TO RDY-6
SEE SHEET 17 FOR -WL- PROFILE

RESTRAIN JOINTS OF EXIST. WATER LINE
SEE DETAIL A ON SHEET UC-3G
-L- STA. 50+75 TO 51+75

PROP. 12" -11 1/4° BEND
-WL1- STA. 9+93.54

RECONNECT WATER METER
SEE DETAIL A ON SHEET UC-3B (TYP)

PROP. 12" -11 1/4° BEND
-WL1- STA. 9+21.80

PROP. 12" -22 1/2° BEND
-WL1- STA. 8+39.58

PROP. 12" -22 1/2° BEND
-WL1- STA. 7+99.57

PROP. 12" -22 1/2° BEND
-WL1- STA. 7+51.08

ABANDON 900' OF 6" UTILITY PIPE
EXIST. 6" AC WATER LINE
SEE NOTES 1 & 2
-L- STA. 42+01 TO 50+76

ABANDON 790' OF 12" UTILITY PIPE
EXIST. 12" PVC WATER LINE
SEE NOTES 1 & 2
-L- STA. 42+54 TO 50+74

PROP. WATER METER
PROP. ROW

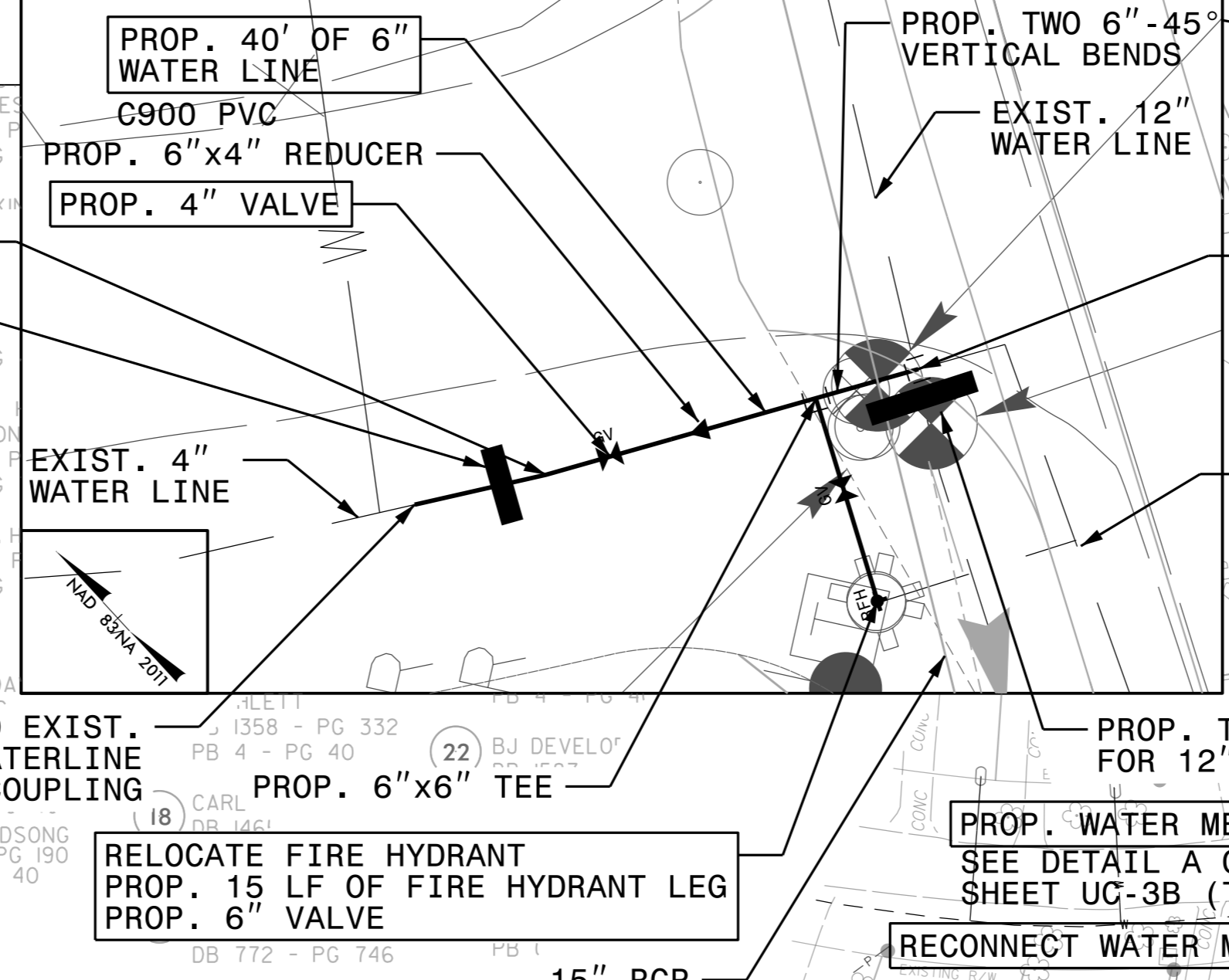
CONNECT TO EXIST. 2" SERVICE LINE
WITH A 12"x4" TEE, 4"x2" REDUCER,
PROP. 2" GATE VALVE, AND 14' OF 2" WATERLINE
-WL1- STA. 5+70.75

NOTE:

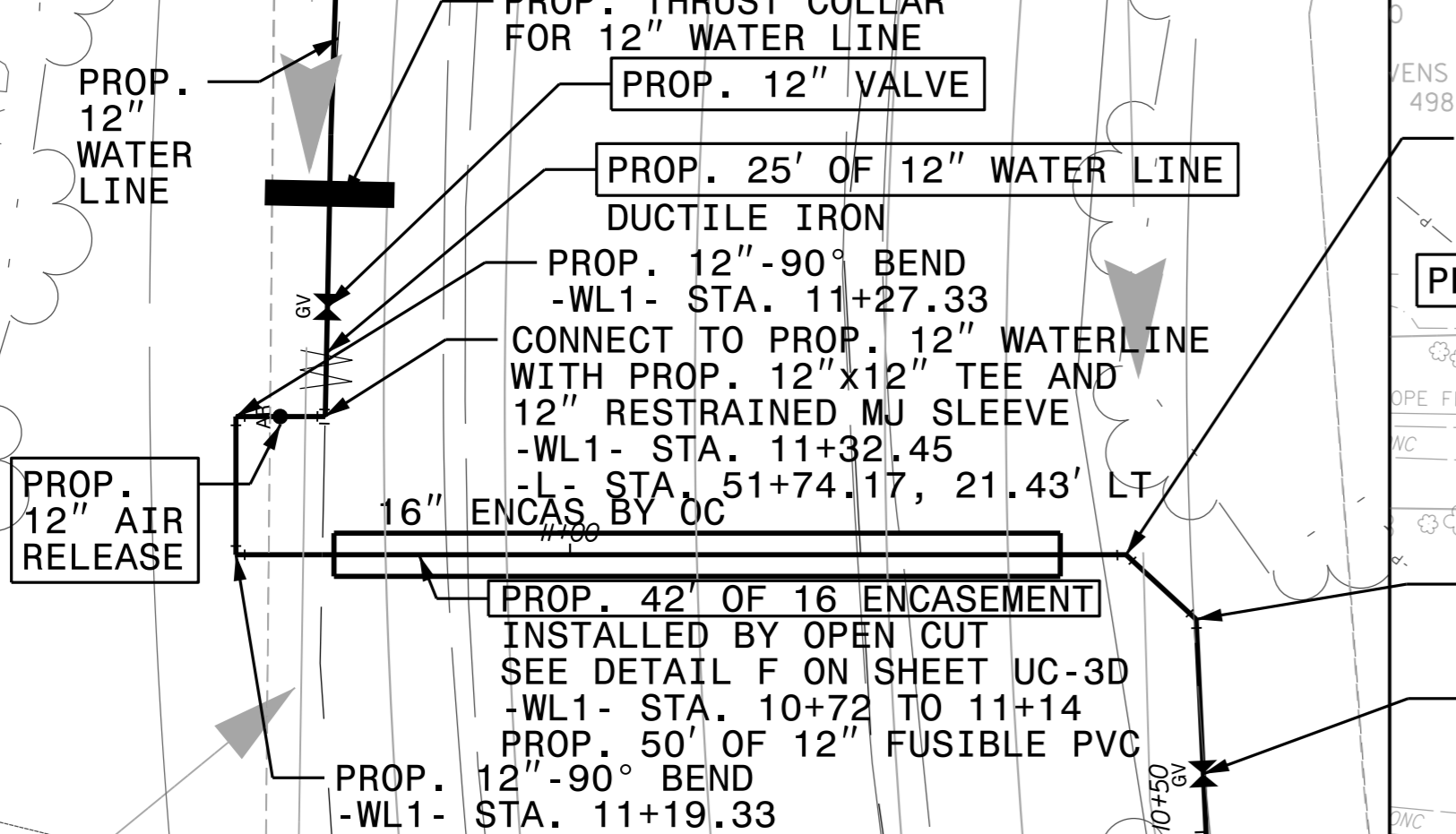
1. THE EXISTING 8" AC WATERLINE, ON THE SOUTH SIDE OF COLINGTON ROAD, IS TO REMAIN IN SERVICE DURING THE CONSTRUCTION OF THE PROPOSED 12" PVC WATERLINE. THE CONTRACTOR IS RESPONSIBLE TO PROTECT THE EXISTING WATERLINE DURING CONSTRUCTION.
2. AFTER COMPLETION OF THE PROPOSED 12" PVC WATERLINE, THE EXISTING 8" AC WATERLINE IS TO BE ABANDONED IN PLACE AND FILLED WITH GROUT FROM -L- STA. 41+83 TO -L- STA. 211+55, PER THE SPECIAL PROVISIONS SECTION OF THE SPECIFICATIONS, PG 75
3. ALL PROPOSED WATERLINE SHALL BE 12" C900 PVC.
4. ALL PIPE FITTINGS SHALL BE DUCTILE IRON.
5. REFER TO THE RESTRAINED JOINT DETAIL ON SHEET UC-3G FOR RESTRAINED JOINT LENGTHS.
6. ELEVATION OF EXISTING WATERLINES ARE ASSUMED TO BE 3- FEET BELOW EXISTING GRADE. CONTRACTOR SHALL VERIFY THE LOCATION AND DEPTH OF THE EXISTING WATERLINE PRIOR TO MAKING THE CONNECTION.
7. CONNECTIONS TO EXISTING WATERLINE ARE TO BE RESTRAINED BY THRUST COLLARS. SEE DETAIL A ON SHEET UC-3E.
8. WITH APPROVAL FROM THE NCDOT ENGINEER, IN AREAS WHERE THE RIGHT-OF-WAY IS BOUNDED BY WETLANDS OR CONSERVATION AREA, SUSPEND THE FUSIBLE PVC PIPE STRING WITH A BACKHOE OR CRANE OVER THE SENSITIVE AREA FOR PULL-IN. FOR AREAS OF PRIVATE PROPERTY, THE CONTRACTOR SHALL UTILIZE THE CARTRIDGE METHOD, MULTIPLE SHORT PIPES WITH FUSION IN THE PIT.

MATCH LINE -L- STA. 53+00.00
SEE SHEET UC-5

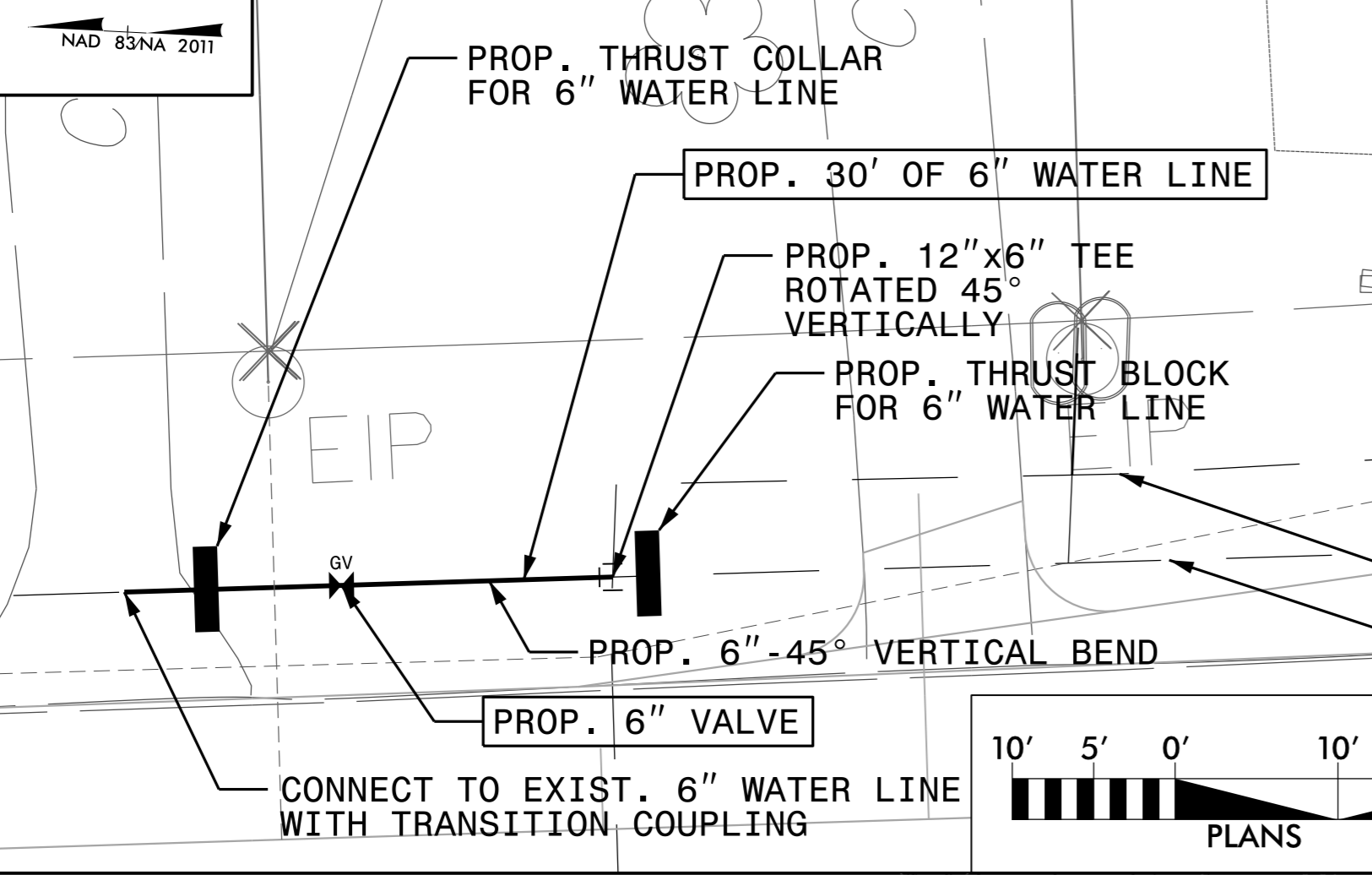
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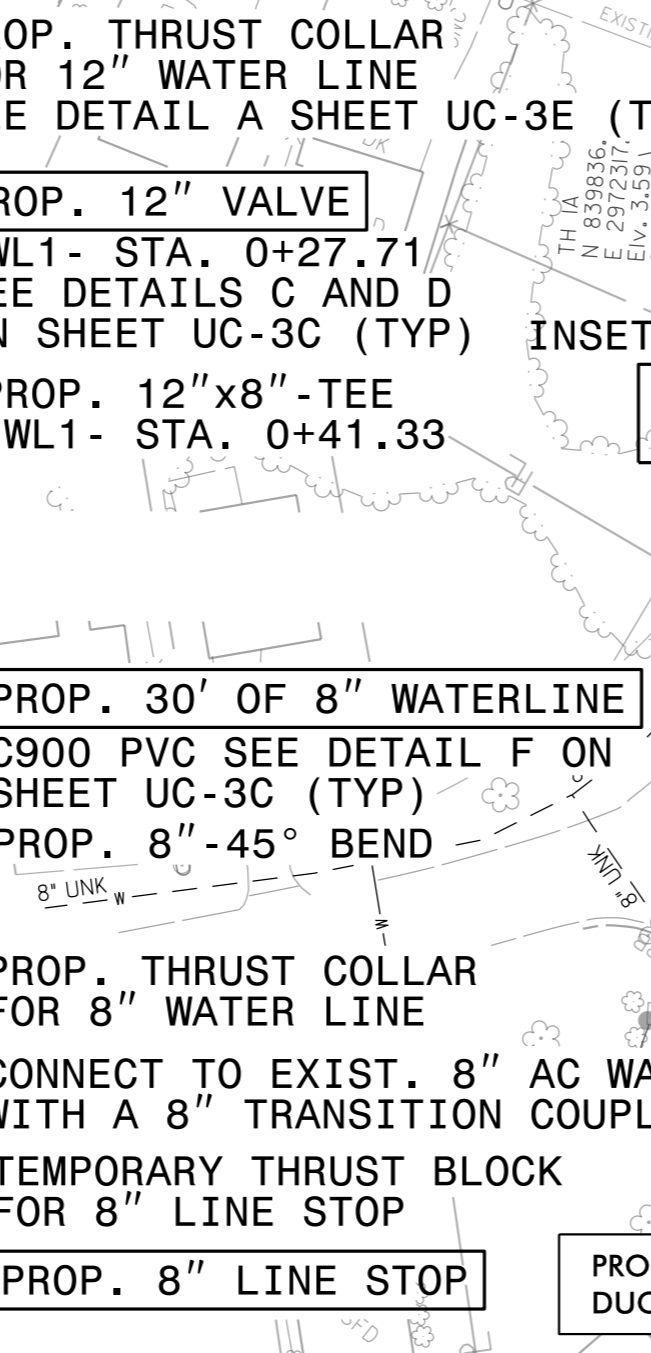
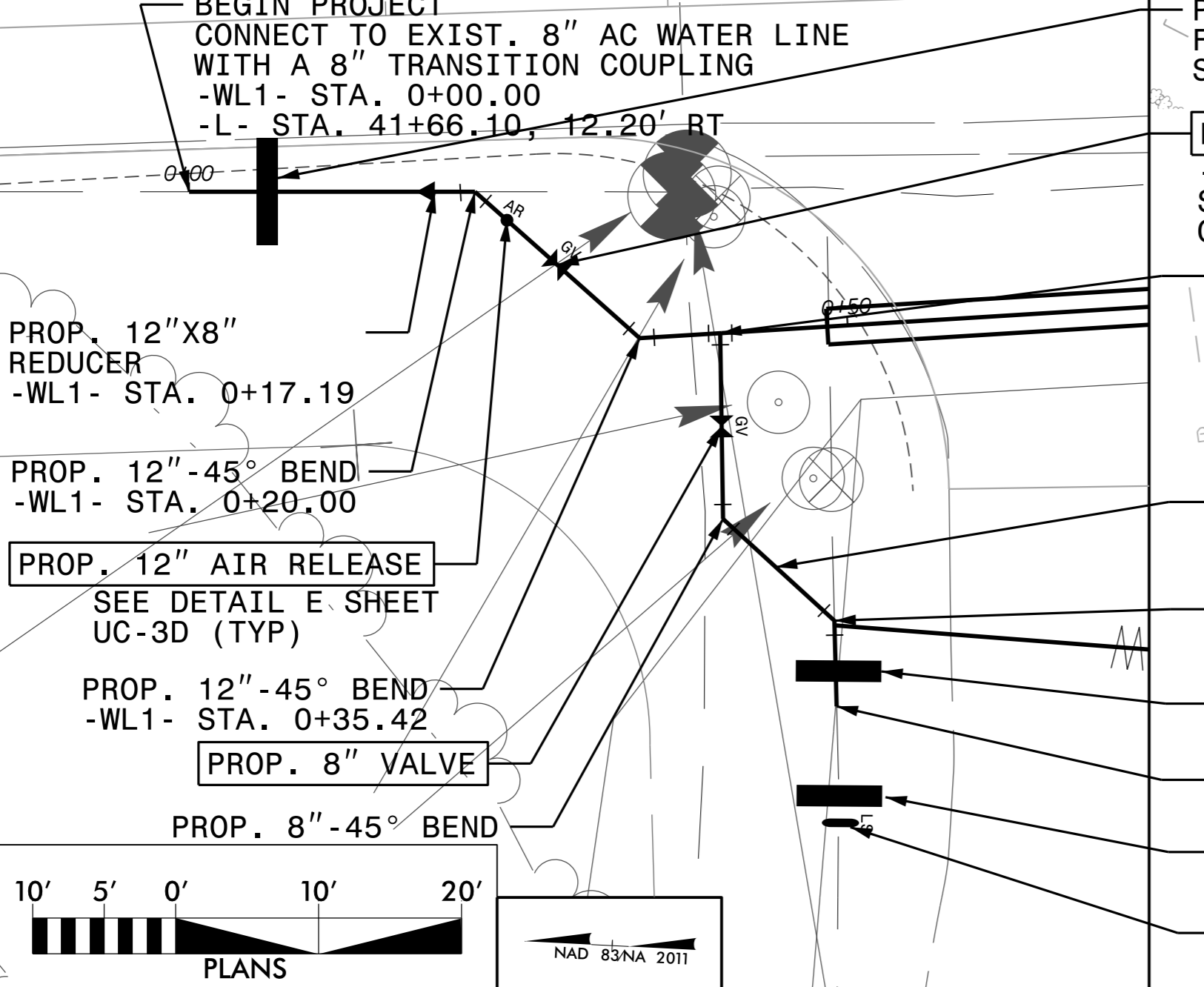
INSET A



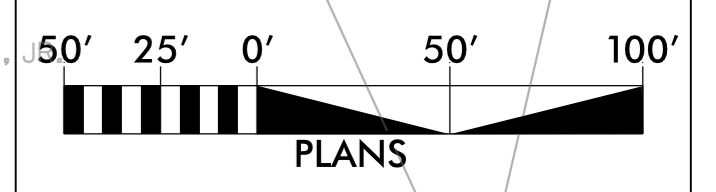
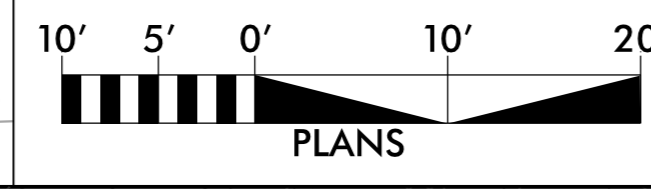
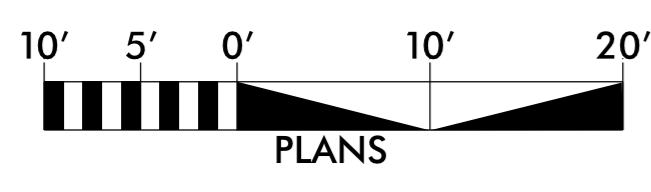
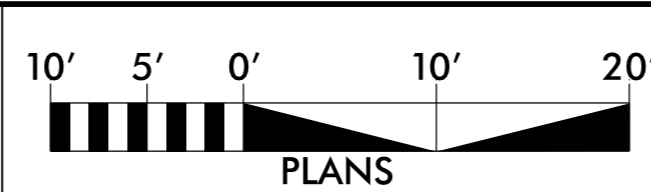
INSET C



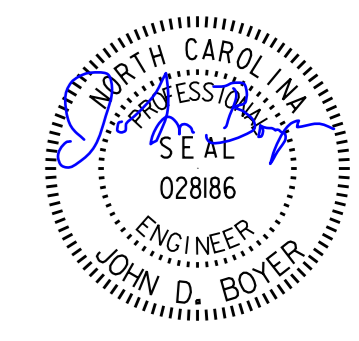
INSET D

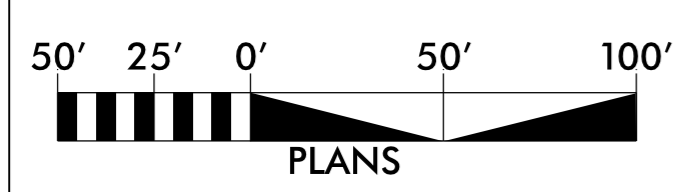
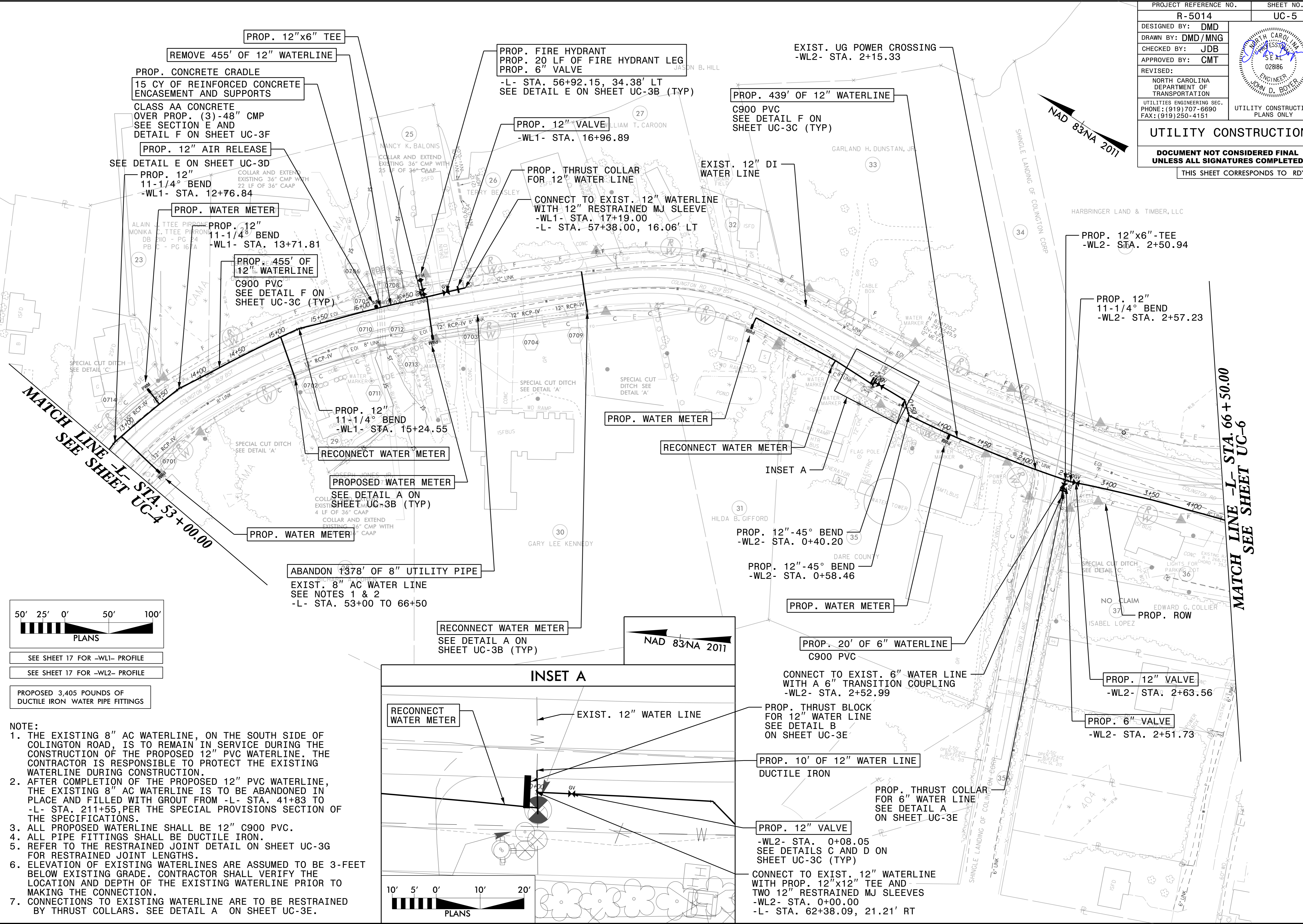
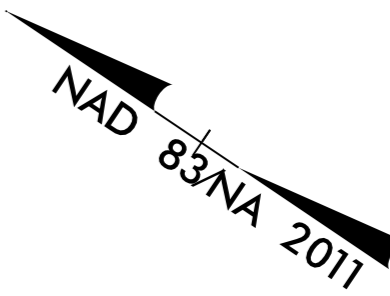


PROPOSED 8,325 POUNDS OF DUCTILE IRON WATER PIPE FITTINGS



8/17/99
SYSTEM: UC-3G UC-5014_UC-4_psh.dgn
USER: GYANTM

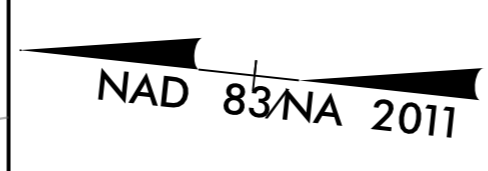
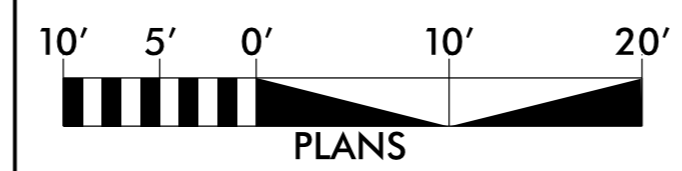
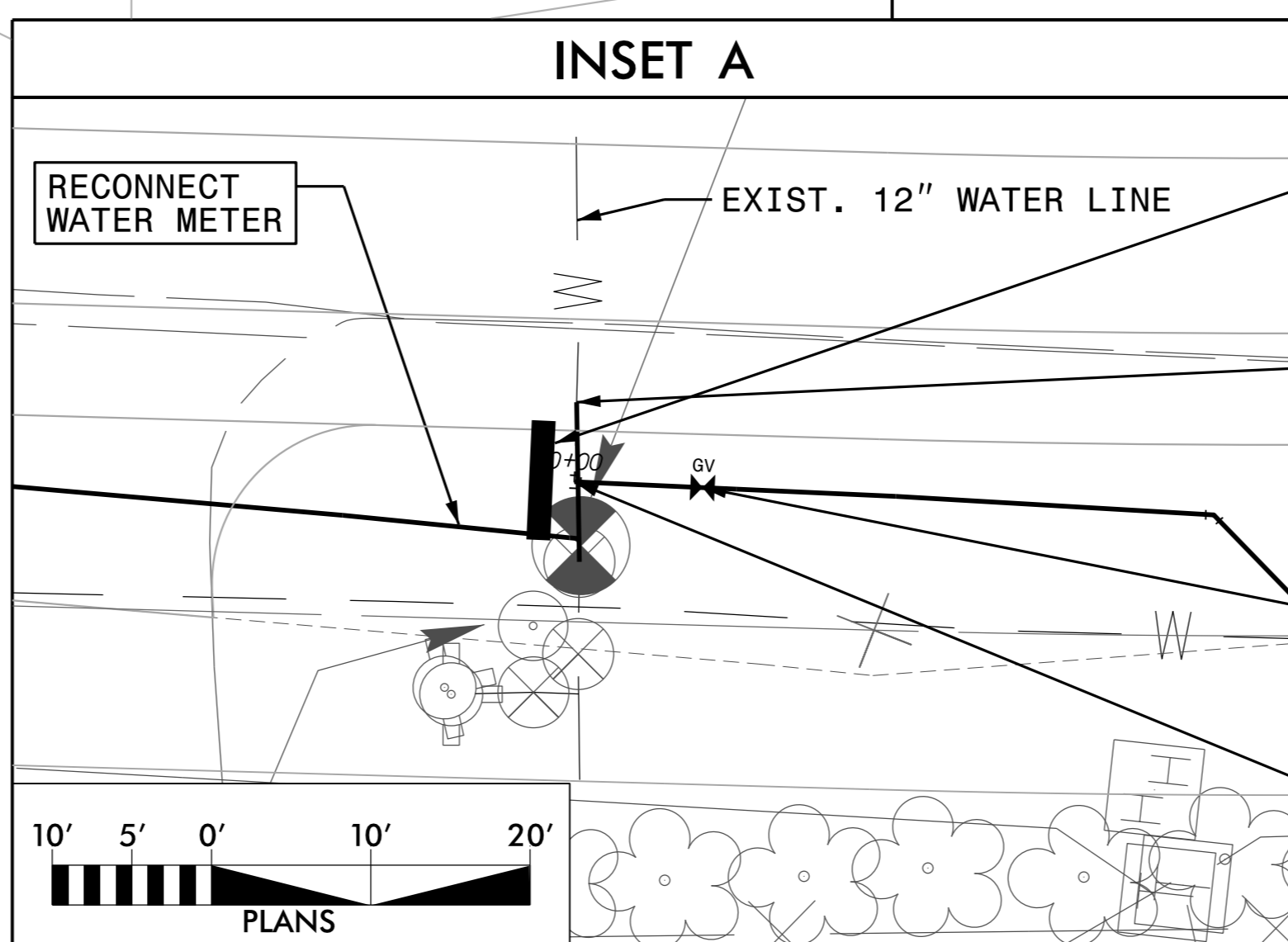
PROJECT REFERENCE NO.	SHEET NO.
R-5014	UC-5
DESIGNED BY: DMD	
DRAWN BY: DMD/MNG	
CHECKED BY: JDB	
APPROVED BY: CMT	
REVISED:	
NORTH CAROLINA DEPARTMENT OF TRANSPORTATION UTILITIES ENGINEERING SEC. PHONE: (919) 707-6690 FAX: (919) 250-4151	
UTILITY CONSTRUCTION PLANS ONLY	
UTILITY CONSTRUCTION	
DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED	
THIS SHEET CORRESPONDS TO RDY-7	



SEE SHEET 17 FOR -WL1- PROFILE
SEE SHEET 17 FOR -WL2- PROFILE

PROPOSED 3,405 POUNDS OF
DUCTILE IRON WATER PIPE FITTINGS

- NOTE:**
1. THE EXISTING 8" AC WATERLINE, ON THE SOUTH SIDE OF COLINGTON ROAD, IS TO REMAIN IN SERVICE DURING THE CONSTRUCTION OF THE PROPOSED 12" PVC WATERLINE. THE CONTRACTOR IS RESPONSIBLE TO PROTECT THE EXISTING WATERLINE DURING CONSTRUCTION.
 2. AFTER COMPLETION OF THE PROPOSED 12" PVC WATERLINE, THE EXISTING 8" AC WATERLINE IS TO BE ABANDONED IN PLACE AND FILLED WITH GROUT FROM -L- STA. 41+83 TO -L- STA. 211+55, PER THE SPECIAL PROVISIONS SECTION OF THE SPECIFICATIONS.
 3. ALL PROPOSED WATERLINE SHALL BE 12" C900 PVC.
 4. ALL PIPE FITTINGS SHALL BE DUCTILE IRON.
 5. REFER TO THE RESTRAINED JOINT DETAIL ON SHEET UC-3G FOR RESTRAINED JOINT LENGTHS.
 6. ELEVATION OF EXISTING WATERLINES ARE ASSUMED TO BE 3- FEET BELOW EXISTING GRADE. CONTRACTOR SHALL VERIFY THE LOCATION AND DEPTH OF THE EXISTING WATERLINE PRIOR TO MAKING THE CONNECTION.
 7. CONNECTIONS TO EXISTING WATERLINE ARE TO BE RESTRAINED BY THRUST COLLARS. SEE DETAIL A ON SHEET UC-3E.



MATCH LINE -L- STA. 66 + 50.00
SEE SHEET UC-6

MATCH LINE -L- STA. 53 + 00.00
SEE SHEET UC-4

REVISIONS

8/17/99
SYSTEM: UC05P05014_01_UC5_psh.dgn
USER: GYANTM

PROJECT REFERENCE NO.	SHEET NO.
R-5014	UC-6
DESIGNED BY: DMD	
DRAWN BY: DMD/MNG	
CHECKED BY: JDB	
APPROVED BY: CMT	
REVISED:	UTILITY CONSTRUCTION PLANS ONLY
NORTH CAROLINA DEPARTMENT OF TRANSPORTATION	
UTILITIES ENGINEERING SEC. PHONE: (919) 707-6690 FAX: (919) 250-4151	

UTILITY CONSTRUCTION

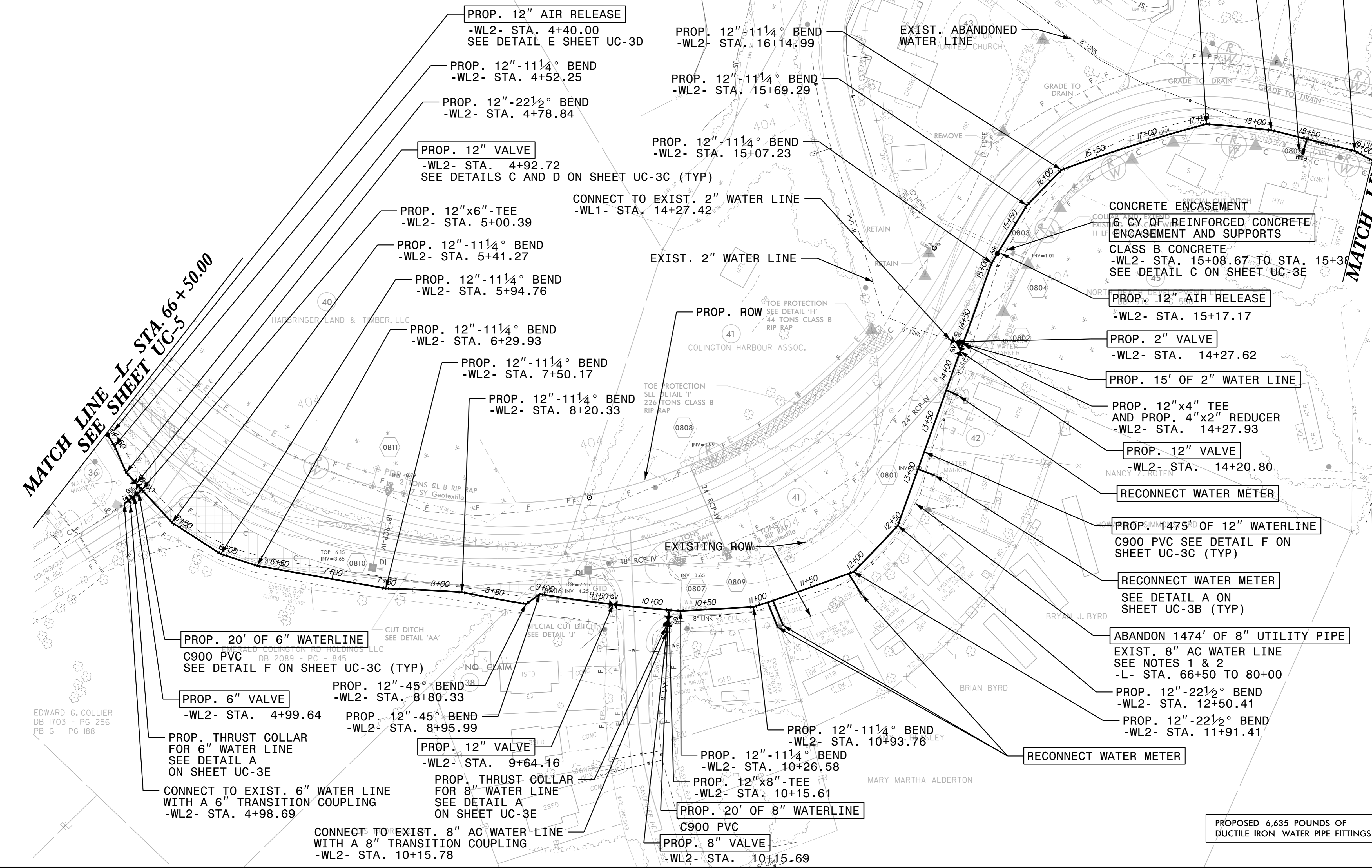
DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED

THIS SHEET CORRESPONDS TO RDY-8

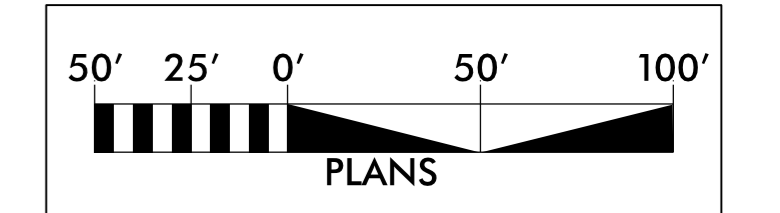
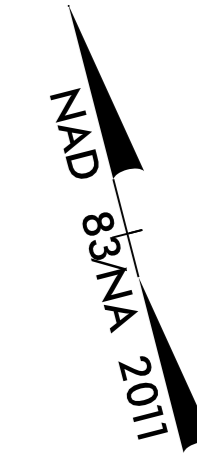
- NOTE:**
1. THE EXISTING 8" AC WATERLINE, ON THE SOUTH SIDE OF COLINGTON ROAD, IS TO REMAIN IN SERVICE DURING THE CONSTRUCTION OF THE PROPOSED 12" PVC WATERLINE. THE CONTRACTOR IS RESPONSIBLE TO PROTECT THE EXISTING WATERLINE DURING CONSTRUCTION.
 2. AFTER COMPLETION OF THE PROPOSED 12" PVC WATERLINE, THE EXISTING 8" AC WATERLINE IS TO BE ABANDONED IN PLACE AND FILLED WITH GROUT FROM -L- STA. 41+83 TO -L- STA. 211+55, PER THE SPECIAL PROVISIONS SECTION OF THE SPECIFICATIONS.
 3. ALL PROPOSED WATERLINE SHALL BE 12" C900 PVC.
 4. ALL PIPE FITTINGS SHALL BE DUCTILE IRON.
 5. REFER TO THE RESTRAINED JOINT DETAIL ON SHEET UC-3G FOR RESTRAINED JOINT LENGTHS.
 6. ELEVATION OF EXISTING WATERLINES ARE ASSUMED TO BE 3-FEET BELOW EXISTING GRADE. CONTRACTOR SHALL VERIFY THE LOCATION AND DEPTH OF THE EXISTING WATERLINE PRIOR TO MAKING THE CONNECTION.
 7. CONNECTIONS TO EXISTING WATERLINE ARE TO BE RESTRAINED BY THRUST COLLARS. SEE DETAIL A ON SHEET UC-3E.

MATCH LINE -L- STA. 66+50.00
SEE SHEET UC-5

MATCH LINE -L- STA. 80+00.00
SEE SHEET UC-7



REVISIONS



PROPOSED 6,635 POUNDS OF DUCTILE IRON WATER PIPE FITTINGS

SEE SHEETS 17 AND 18 FOR -WL2- PROFILE

SYSTEM: R5014_U1_UC6_psh.dgn USER: GYANTM

EDWARD C. COLLIER DB 1703 - PG 256 PB 6 - PG 188

DB 2089 - PG 845