4558 B PR **VICINITY MAP** 

STATE OF NORTH CAROLINA DIVISION OF HIGHWAYS

B-4558

T.I.P. NO.

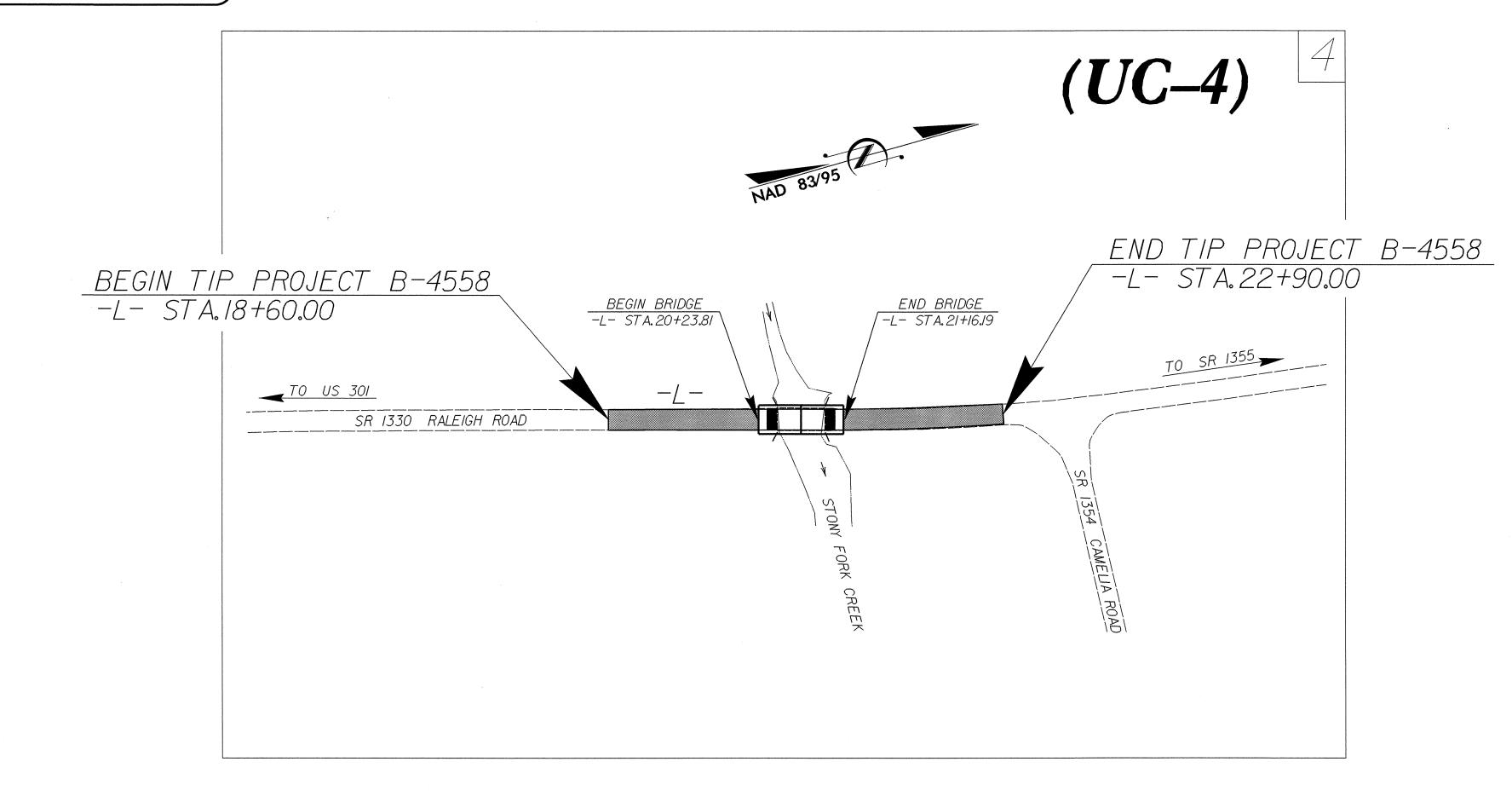
UC-1

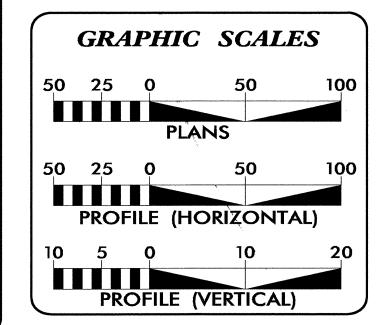
SHEET NO.

# UTILITY CONSTRUCTION PLANS JOHNSTON COUNTY

LOCATION: BRIDGE NO. 86 OVER STONY FORK CREEK AND APPROACHES ON SR 1330 (RALEIGH ROAD)

TYPE OF WORK: UTILITIES RELOCATION





#### INDEX OF SHEETS

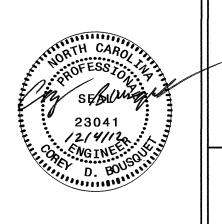
SHEET NO. *UC-1 UC-2 UC-3* UC-3A and UC-3B *UC-4* 

UC-5 and UC-6

**DESCRIPTION** TITLE SHEET UTILTIY SYMBOLOGY **NOTES DETAILS** UTILTIY CONSTRUCTION SHEET PROFILE SHEETS

#### WATER AND SEWER OWNERS ON PROJECT

(1) JOHNSTON COUNTY PUBLIC UTILITIES (WATER)





PREPARED IN THE OFFICE OF: **DIVISION OF HIGHWAYS** UTILITIES UNIT **UTILITIES ENGINEERING** 

1591 MAIL SERVICES CENTER RALEIGH NC 27699-1591 PHONE (919) 707-6690 FAX (919) 250-4151

Roger Worthington, P.E. UTILITIES SECTION ENGINEER

Corey Bousquet, P.E. Nabil Hamdan

UTILITIES SQUAD LEADER PROJECT ENGINEER UTILITIES PROJECT DESIGNER

## STATE OF NORTH CAROLINA DIVISION OF HIGHWAYS

## UTILITIES PLAN SHEET SYMBOLS

### PROPOSED WATER SYMBOLS

## 11<sup>1</sup>/<sub>4</sub> Degree Bend -----+ 22½ Degree Bend -----+ 45 Degree Bend -----+X 90 Degree Bend -----Reducer -----Gate Valve-----Butterfly Valve -----Tapping Valve -----Line Stop -----Line Stop with Bypass -----Blow Off -----Fire Hydrant -----Relocate Fire Hydrant -----Remove Fire Hydrant ----Water Meter ---Relocate Water Meter **REM WM** Remove Water Meter-Water Pump Station RPZ Backflow Preventer DCV Backflow Preventer ---Relocate RPZ Backflow Preventer-Relocate DCV Backflow Preventer---PROPOSED SEWER SYMBOLS Gravity Sewer Line (Sized as Shown) Force Main Sewer Line (Sized as Shown) Manhole (Sized per Note) Sewer Pump Station

#### PROPOSED MISCELLANOUS UTILITIES SYMBOLS

ower Pole ····	6	Thrust Block	1
elephone Pole ·····	<b>-o-</b>	Air Release Valve	AR •
oint Use Pole	<b>-</b>	Utility Vault	UV
elephone Pedestal	O	Concrete Pier	CP
tility Line by Others Type as Shown)	PROP O/H POW LINES	Steel Pier	SP
renchless Installation	12" TL INSTALL	Plan Note	•
ncasement by Open Cut	24" ENCAS BY OC	Pay Item Note	
ncasement	24" ENCASEMENT	·	PAY I

	EXISTING UTILI	TIES SYMBOLS	
Power Pole	•	*Underground Power Line	P
Telephone Pole	-•-	*Underground Telephone Cable	Т
Joint Use Pole	<b>-</b>	*Underground Telephone Conduit	тс
Utility Pole	•	*Underground Fiber Optics Telephone Cable —	T F0
Utility Pole with Base		*Underground TV Cable	TV
H-Frame Pole	•—•	*Underground Fiber Optics TV Cable	TV F0
Power Transmission Line Tower		*Underground Gas Pipeline	G
Water Manhole	⊗	Aboveground Gas Pipeline	A/G Gas
Power Manhole	©	*Underground Water Line	w
Telephone Manhole	€	Aboveground Water Line	A/G Water
Sanitary Sewer Manhole	❸	*Underground Gravity Sanitary Sewer Line	ss
Hand Hole for Cable	H <sub>H</sub>	Aboveground Gravity Sanitary Sewer Line	A/G Sanitary Sewer
Power Transformer		*Underground SS Forced Main Line	FSS
Telephone Pedestal		Underground Unknown Utility Line	?UTL
CATV Pedestal		SUE Test Hole	
Gas Valve ·····	$\Diamond$	Water Meter c	)
Gas Meter	<b>♦</b>	Water Valve	
Located Miscellaneous Utility Object	$\odot$	Fire Hydrant	
Abandoned According to Utility Records	AATUR	Sanitary Sewer Cleanout	
End of Information	E.O.I.		

*For Existing Utilities
Utility Line Drawn from Record
Designated Utility Line

### **UTILITY CONSTRUCTION**

#### **GENERAL NOTES:**

- 1. THE PROPOSED UTILITY CONSTRUCTION SHALL MEET THE APPLICABLE REQUIREMENTS OF THE NC DEPARTMENT OF TRANSPORTATION'S "STANDARD SPECIFICATIONS FOR ROADS AND STRUCTURES" DATED JANUARY 2012.
- 2. THE EXISTING UTILITIES BELONG TO **Johnston County Public Utilities**.
- 3. ALL WATER LINES TO BE INSTALLED WITHIN COMPLIANCE OF THE RULES AND REGULATIONS OF THE NORTH CAROLINA DEPARTMENT OF ENVIRONMENTAL AND NATURAL RESOURCES, DIVISION OF ENVIRONMENTAL HEALTH. ALL SEWER LINES TO BE INSTALLED WITHIN COMPLIANCE OF THE RULES AND REGULATIONS OF THE NORTH CAROLINA DEPARTMENT OF ENVIRONMENT AND NATURAL RESOURCES, DIVISION OF WATER QUALITY. PERFORM ALL WORK IN ACCORDANCE WITH THE APPLICABLE PLUMBING CODES.
- 4. THE UTILITY OWNER OWNS THE EXISTING UTILITY FACILITIES AND WILL OWN THE NEW UTILITY FACILITIES AFTER ACCEPTANCE BY THE DEPARTMENT. THE DEPARTMENT OWNS THE CONSTRUCTION CONTRACT AND HAS ADMINISTRATIVE AUTHORITY. COMMUNICATIONS AND DECISIONS BETWEEN THE CONTRACTOR AND UTILITY OWNER ARE NOT BINDING UPON THE DEPARTMENT OR THIS CONTRACT UNLESS AUTHORIZED BY THE ENGINEER. AGREEMENTS BETWEEN THE UTILITY OWNER AND CONTRACTOR FOR THE WORK THAT IS NOT PART OF THIS CONTRACT OR IS SECONDARY TO THIS CONTRACT ARE ALLOWED, BUT ARE NOT BINDING UPON THE DEPARTMENT.
- 5. PROVIDE ACCESS FOR THE DEPARTMENT PERSONNEL AND THE OWNER'S REPRESENTATIVES TO ALL PHASES OF CONSTRUCTION. NOTIFY DEPARTMENT PERSONNEL AND THE UTILITY OWNER TWO WEEKS PRIOR TO COMMENCEMENT OF ANY WORK AND ONE WEEK PRIOR TO SERVICE INTERRUPTION. KEEP UTILITY OWNERS' REPRESENTATIVES INFORMED OF WORK PROGRESS AND PROVIDE OPPROTUNITY FOR INSPECTION OF CONSTRUCTION AND TESTING.

- 6. THE PLANS DEPICT THE BEST AVAILABLE INFORMATION FOR THE LOCATION, SIZE, AND TYPE OF MATERIAL FOR ALL EXISTING UTILITIES. MAKE INVESTIGATIONS FOR DETERMINING THE EXACT LOCATION, SIZE, AND TYPE MATERIAL OF THE EXISTING FACILITIES AS NECESSARY FOR THE CONSTRUCTION OF THE PROPOSED UTILITIES AND FOR AVOIDING DAMAGE TO EXISTING FACILITIES. REPAIR ANY DAMAGE INCURRED TO EXISTING FACILITIES TO THE ORIGINAL OR BETTER CONDITION AT NO ADDITONAL COST TO THE DEPARTMENT.
- 7. MAKE FINAL CONNECTIONS OF THE NEW WORK TO THE EXISTING SYSTEM WHERE INDICATED ON THE PLANS, AS REQUIRED TO FIT THE ACTUAL CONDITIONS, OR AS DIRECTED.
- 8. MAKE CONNECTIONS BETWEEN EXISTING AND PROPOSED UTILITIES AT TIMES MOST CONVENIENT TO THE PUBLIC, WITHOUT ENDANGERING THE UTILITY SERVICE, AND IN ACCORDANCE WITH THE UTILITY OWNER'S REQUIREMENTS. MAKE CONNECTIONS ON WEEKENDS, AT NIGHT, AND ON HOLIDAYS IF NECESSARY.
- 9. ALL UTILITY MATERIALS SHALL BE APPROVED PRIOR TO DELIVERY TO THE PROJECT. SEE 1500-7, "SUBMITTALS AND RECORDS" IN SECTION 1500 OF THE STANDARD SPECIFICATIONS.

#### PROJECT SPECIFIC NOTES:

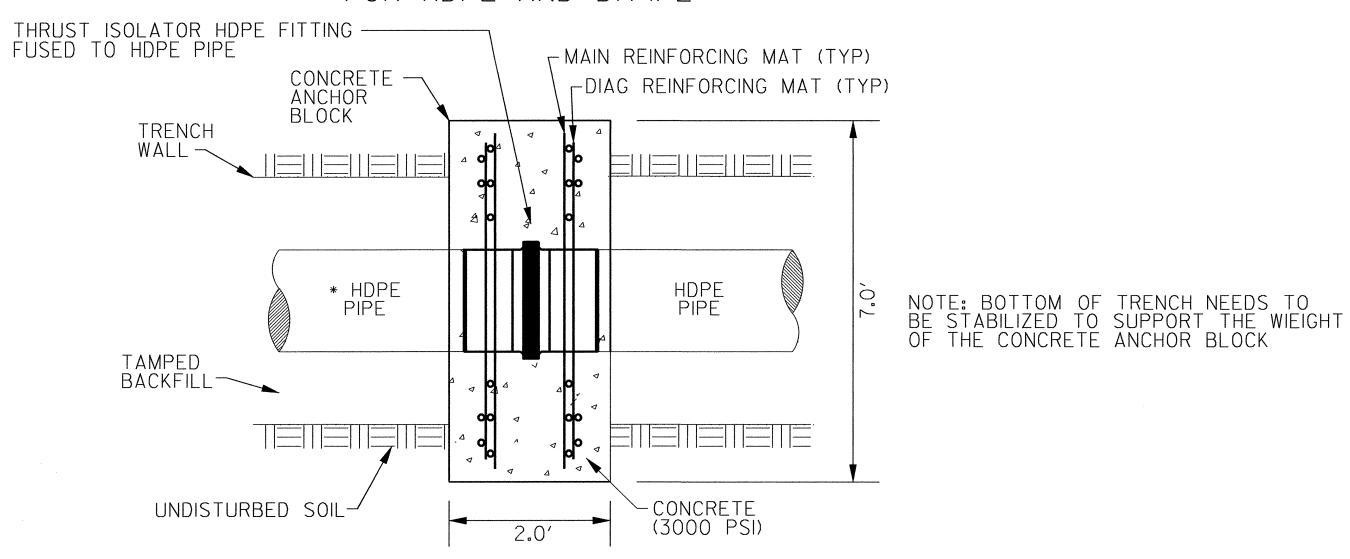
1. CONTRACTOR'S ATTENTION IS DIRECTED TO SECTIONS 102, 107, AND 1550 OF THE STANDARD SPECIFICATIONS CONCERNING TRENCHLESS INSTALLATION. IT IS CONTRACTOR'S RESPONSIBILITY TO HAVE BORE PATH DESIGNED AND SEALED BY A LICENSED NORTH CAROLINA PROFESSIONAL ENGINEER. NO DAMAGE IS ALLOWED TO RIVER, WETLANDS, OR BUFFER ZONES.

2. IF HDPE PIPE IS INSTALLED BY DIRECTIONAL DRILL. IT SHALL BE FILLED WITH WATER AND NOT BE CONNECTED TO ANY OTHER PIPE OR FITTINGS FOR ONE WEEK FROM THE TIME OF INSTALLATION.

UTILITY CONSTRUCTION

## PROJECT TYPICAL DETAILS

## CONCRETE ANCHOR BLOCK - PLAN VIEW FOR HDPE AND DIPIPE



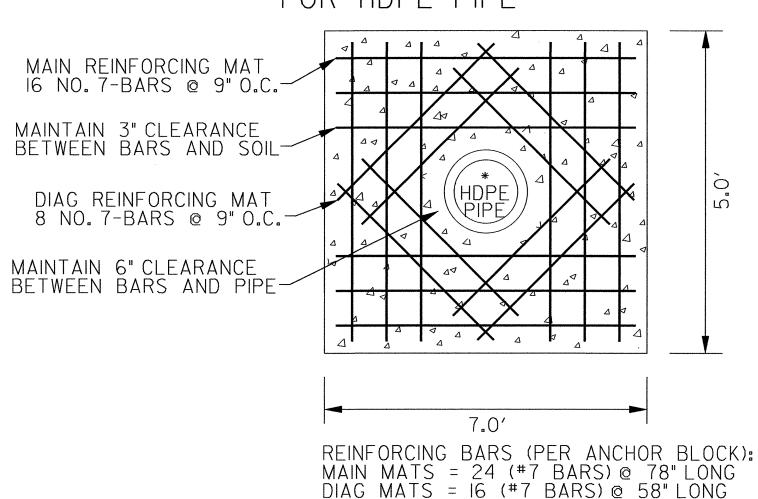
#### FORCE MAIN AND WATER MAIN PROFILE NOTES:

- (I) ELEVATIONS OF EXISTING UTILITIES SHOWN ON PROFILE NEED TO BE VERIFIED IN THE FIELD.

  (2) CONTRACTOR'S ATTENTION IS DIRECTED TO SECTIONS 102, 107, AND 1550 OF THE STANDARD SPECIFICATIONS CONCERNING TRENCHLESS INSTALLATION. IT IS CONTRACTOR'S RESPONSIBILITY TO HAVE BORE PATH DESIGNED AND SEALED BY A NORTH CAROLINA PROFESSIONAL ENGINEER. NO DAMAGE IS ALLOWED TO RIVER OR BUFFER ZONES.

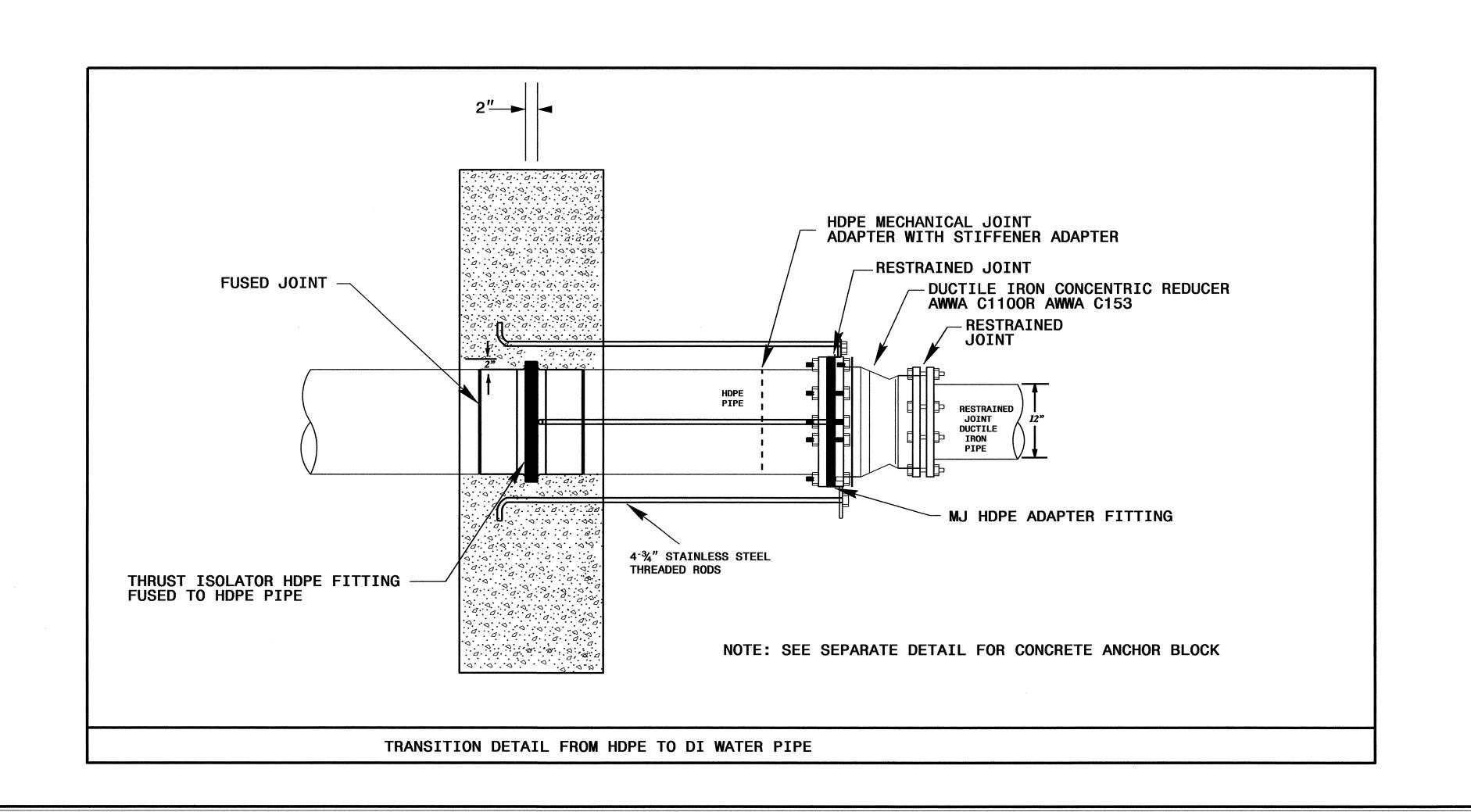
  (3) CONTRACTOR'S ENGINEER SHALL PROVIDE ON-SITE OVERSIGHT FOR HDD OPERATION.
- (4) THE HDPE WATER LINE INSIDE DIAMETERS SHALL BE EQUIVALENT TO THE DI WATER LINE INSIDE DIAMETER. \*

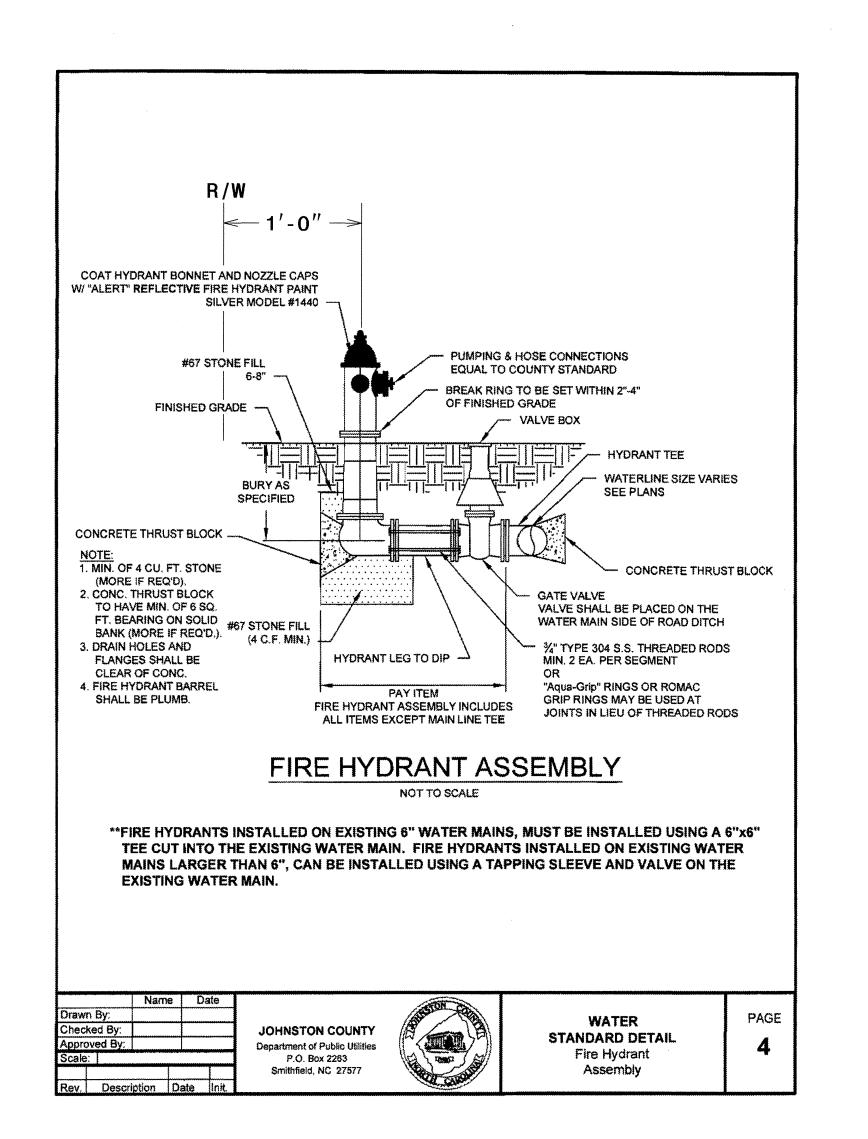
CONCRETE ANCHOR BLOCK - SECTION VIEW FOR HDPE PIPE

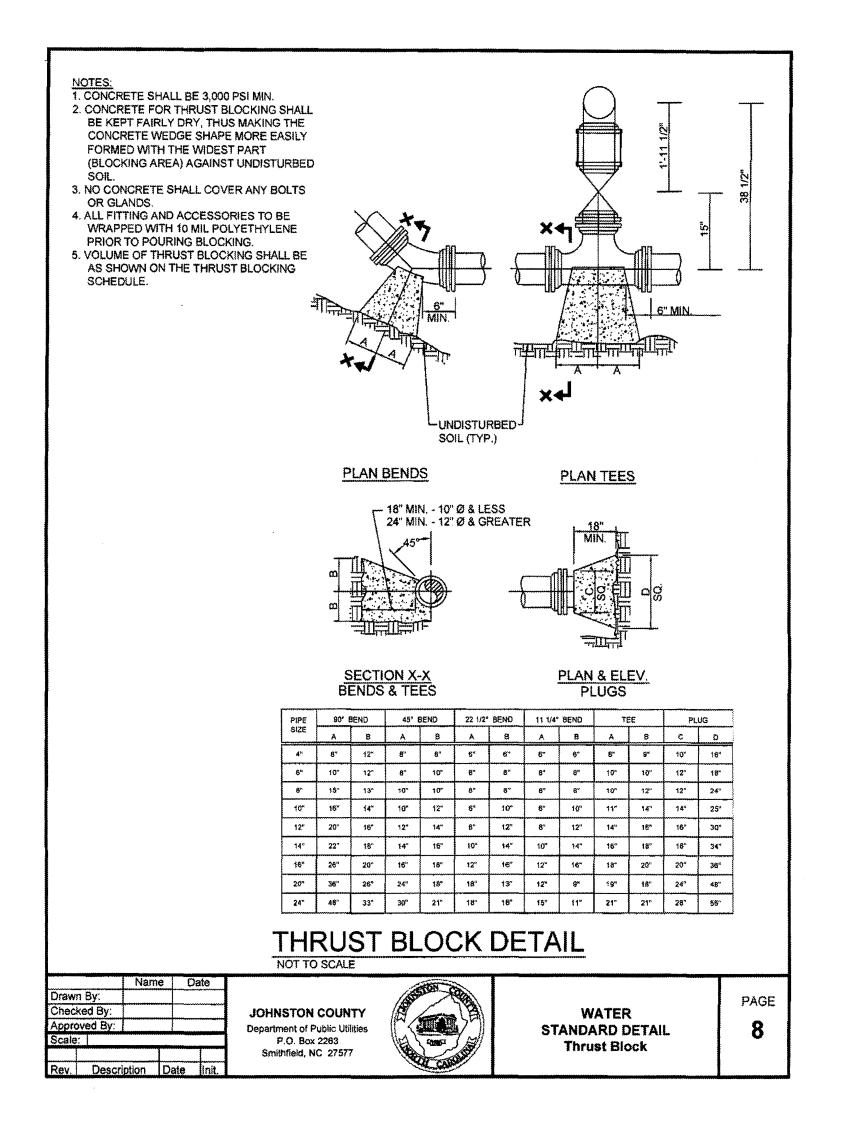


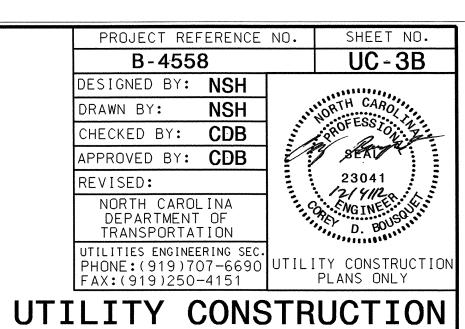
PROJECT REFERENCE NO. SHEET NO. UC-3A B-4558 DESIGNED BY: NSH DRAWN BY: NSH CHECKED BY: CDB APPROVED BY: CDB REVISED: NORTH CAROLINA DEPARTMENT OF TRANSPORTATION UTILITIES ENGINEERING SEC.
PHONE: (919)707-6690
UTILITY CONSTRUCTION
FAX: (919)250-4151
PLANS ONLY

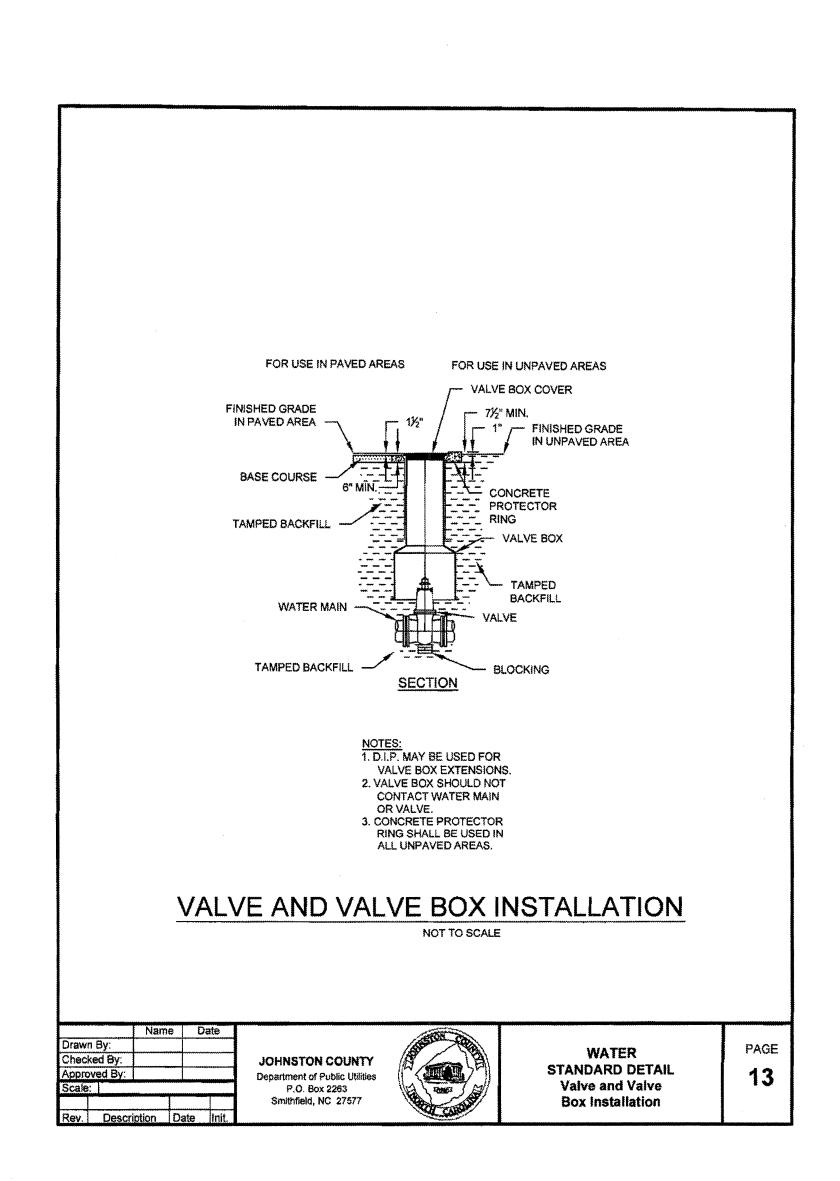
UTILITY CONSTRUCTION





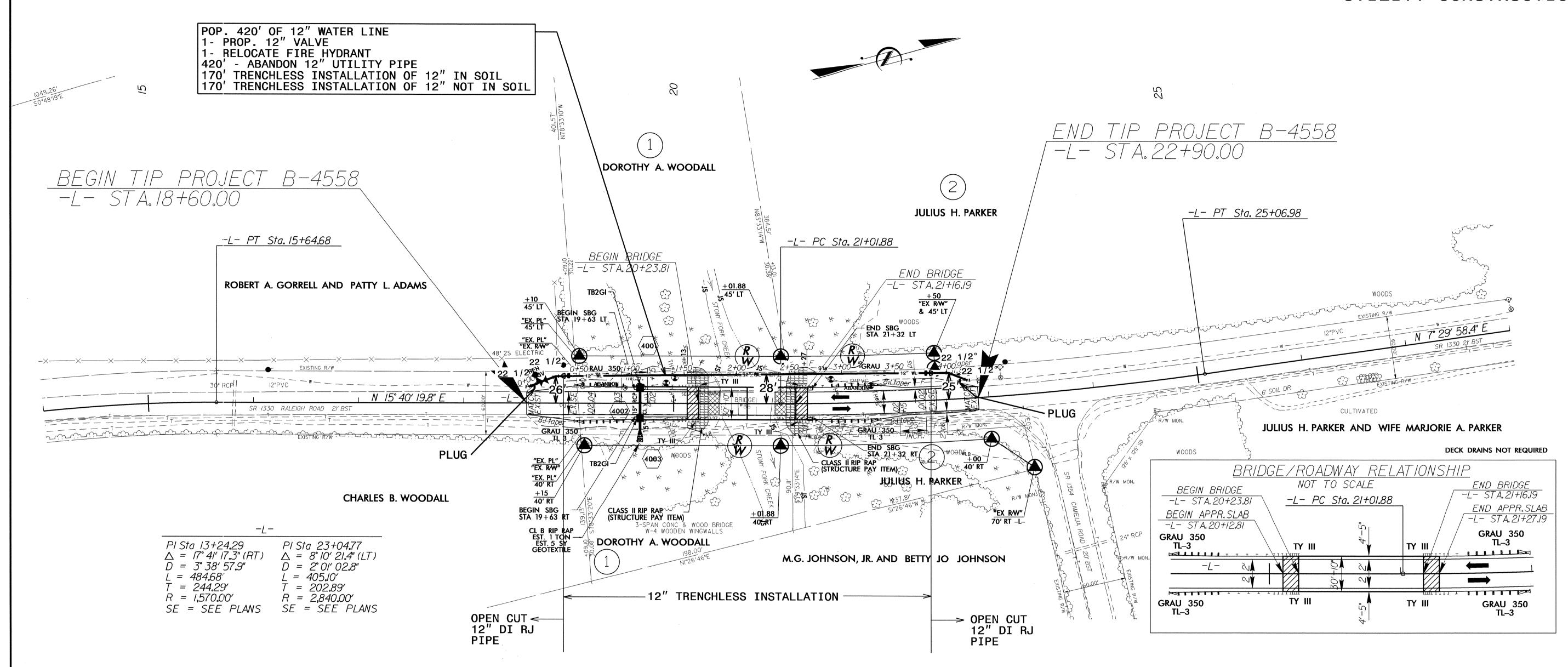




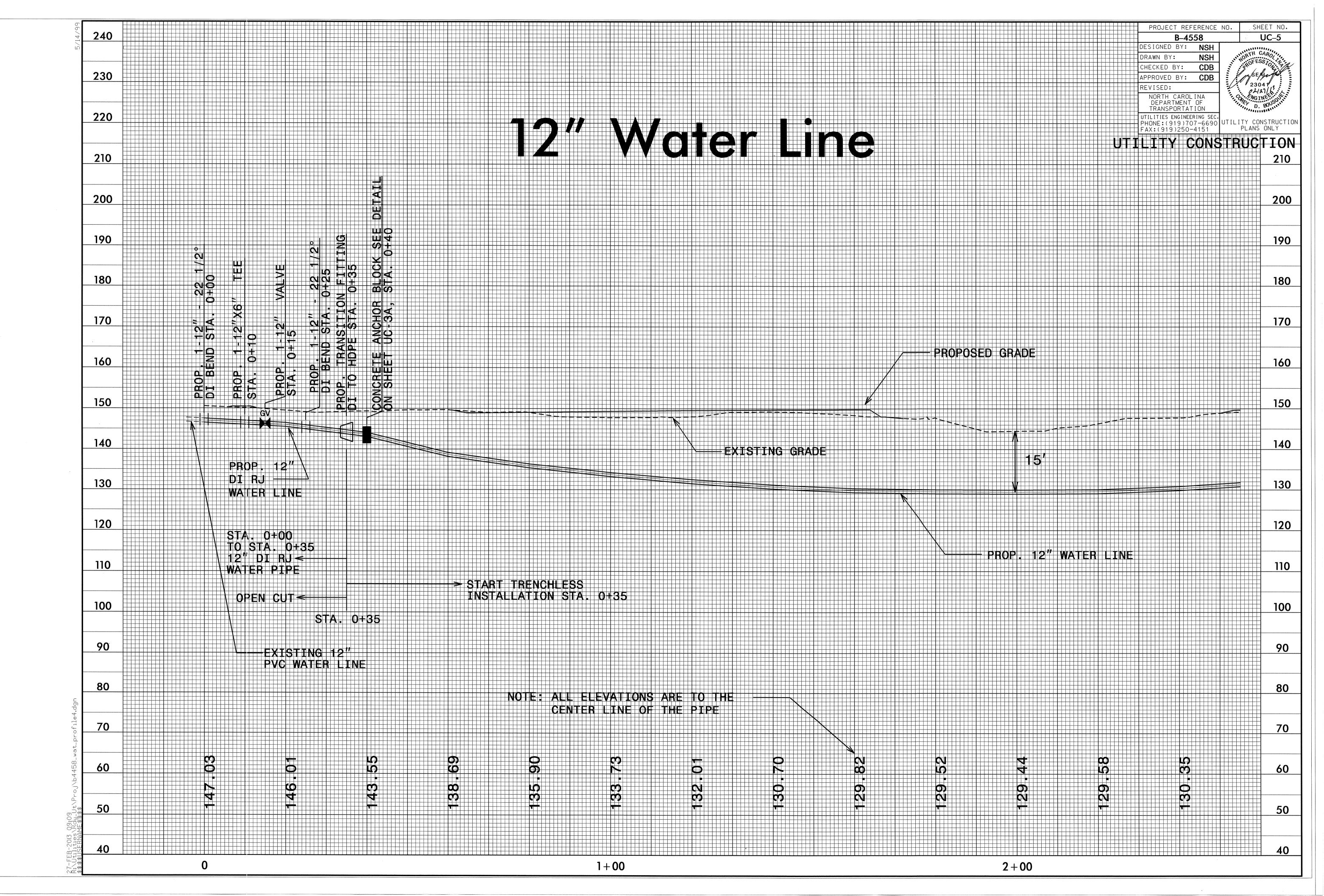


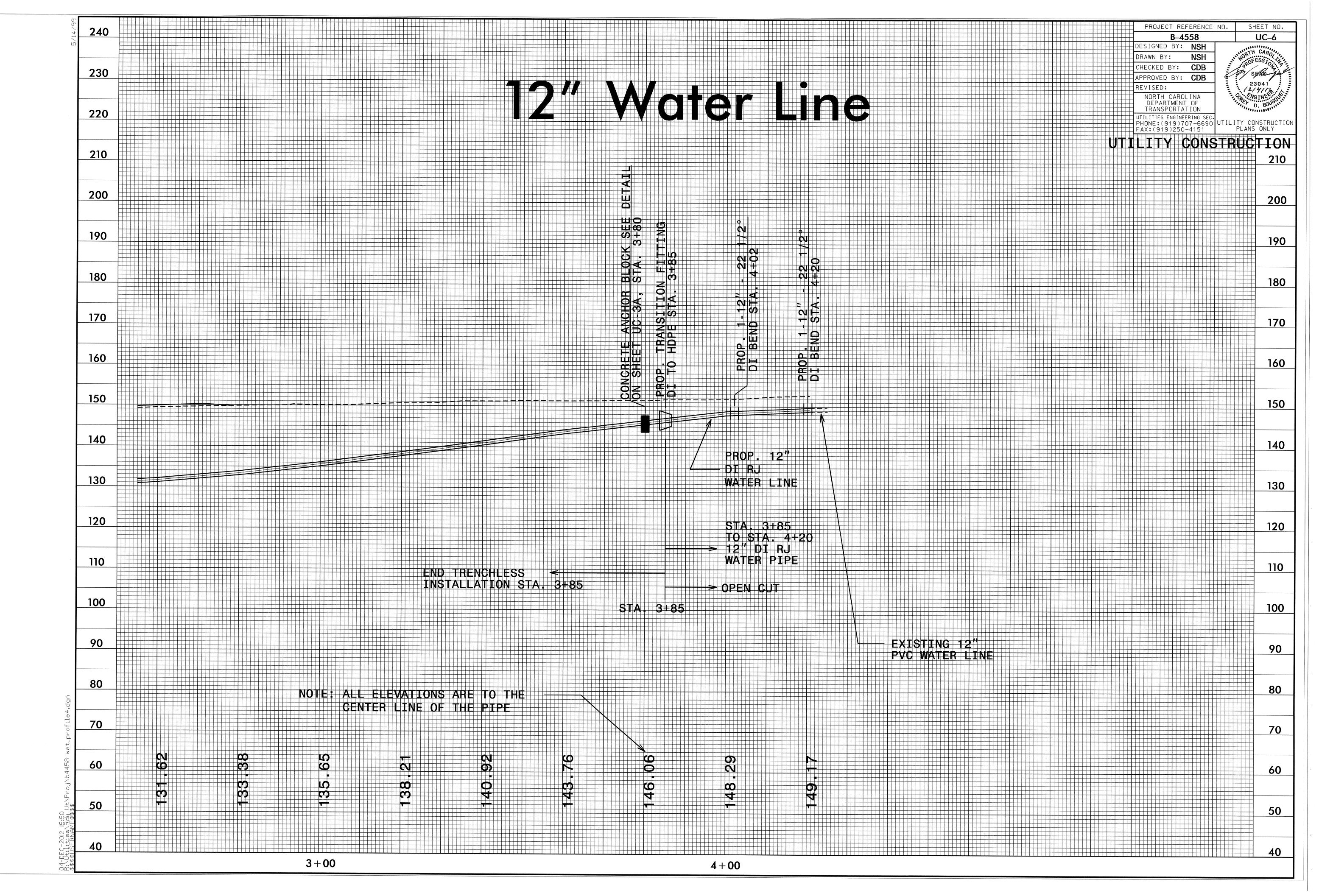
PROJECT REFERENCE NO.			SHEET NO.
B-4558			UC-4
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APPROVED BY:	CDB		y sealls
REVISED:		C	230413
NORTH CAROLINA DEPARTMENT OF TRANSPORTATION		*****	O BOUSON
UTILITIES ENGINEERING SEC. PHONE: (919)707-6690 FAX: (919)250-4151		UTILI	TY CONSTRUCTION PLANS ONLY

#### UTILITY CONSTRUCTION



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DENOTES OFFSITE DETOUR VICINITY MAP

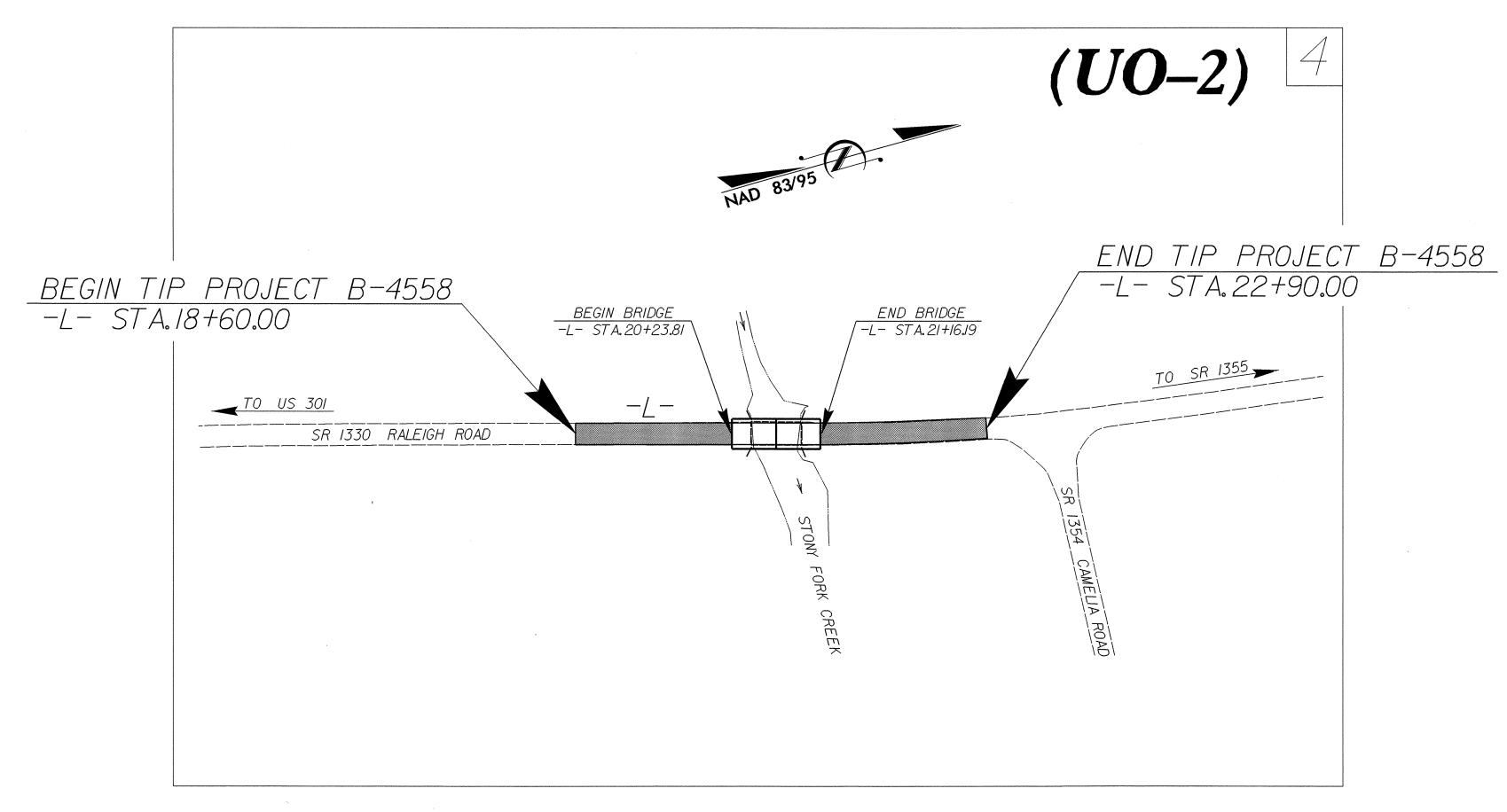
STATE OF NORTH CAROLINA DIVISION OF HIGHWAYS

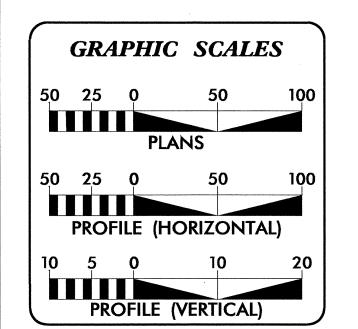
T.I.P. NO. B-4558 UO-1

# UTILITIES BY OTHERS PLANS JOHNSTON COUNTY

LOCATION: BRIDGE NO. 86 OVER STONY FORK CREEK AND APPROACHES ON SR 1330 (RALEIGH ROAD)

TYPE OF WORK: UTILITIES RELOCATION





INDEX OF SHEETS

**DESCRIPTION** 

TITLE SHEET

SHEET NO.

*UO-1* 

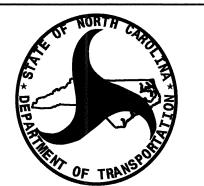
**UO**–2

UTILITY BY OTHERS PLAN SHEET

UTILITY OWNERS ON PROJECT

(1) Progress Energy Carolinas, Inc. (Power) Contact: Sheila Talton sheila.talton@pgnmail.com (919) 481-6126 (Office) (919) 219-5853 (Mobile)

(2) Century Link (Telephone) Contact: Kevin Godwin kevin.godwin@embarq.com (910) 366-2142



PREPARED IN THE OFFICE OF:

**DIVISION OF HIGHWAYS** UTILITIES UNIT UTILITIES ENGINEERING

1591 MAIL SERVICES CENTER RALEIGH NC 27699–1591 PHONE (919) 707–6690 FAX (919) 250–4151

Roger Worthington, P.E. UTILITIES SECTION ENGINEER

Corey Bousquet, P.E.

UTILITIES SQUAD LEADER PROJECT ENGINEER

Nabil Hamdan UTILITIES PROJECT DESIGNER

PROJECT REFERENCE NO. SHEET NO. UO-2

#### UTILITIES BY OTHERS

NOTE:
ALL PROPOSED UTILITY WORK
SHOWN ON THIS SHEET WILL
BE DONE BY OTHERS

