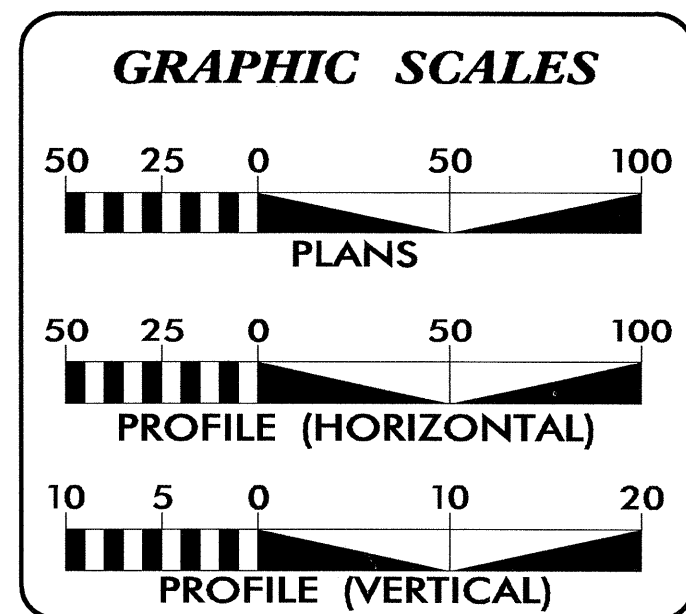
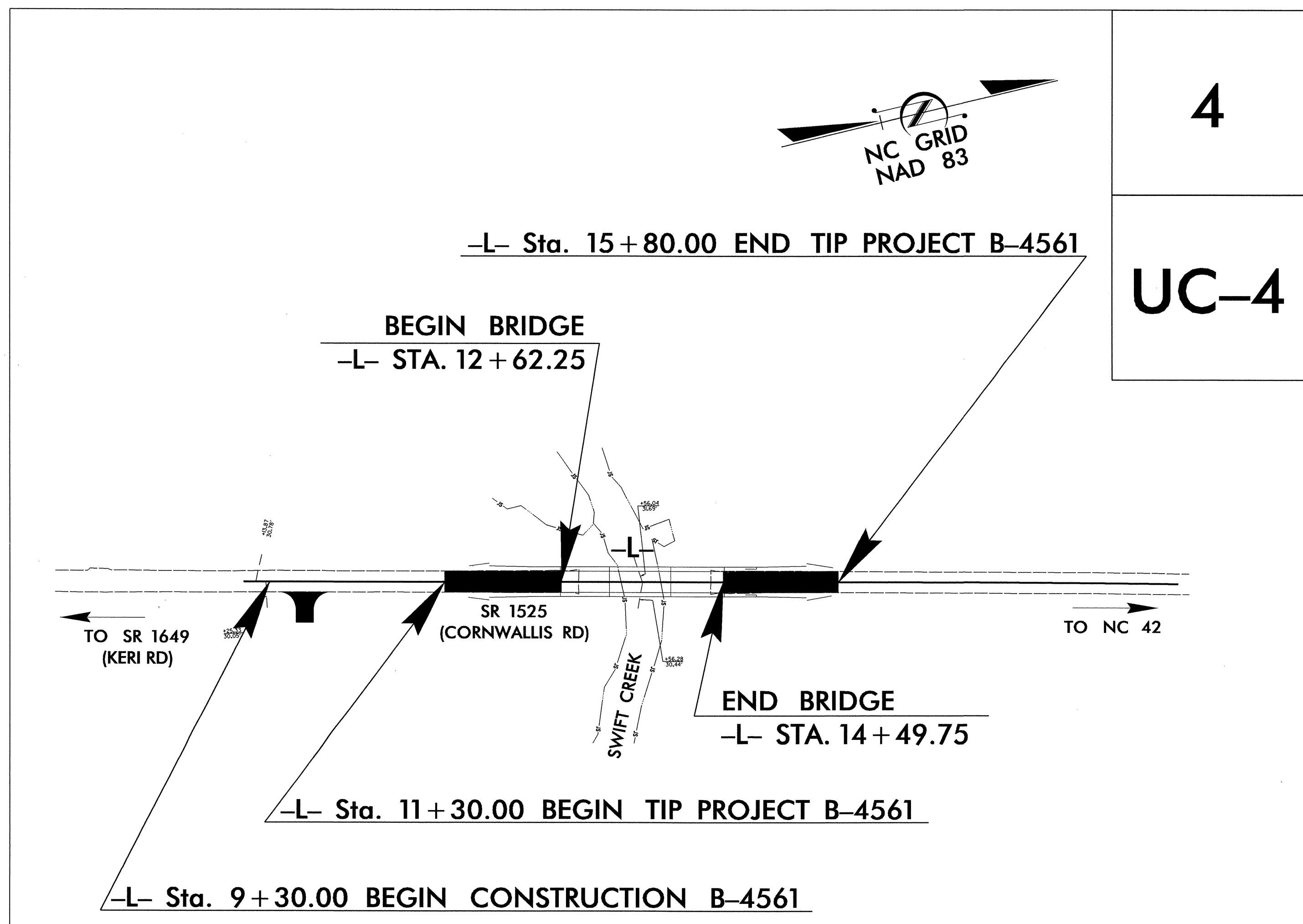
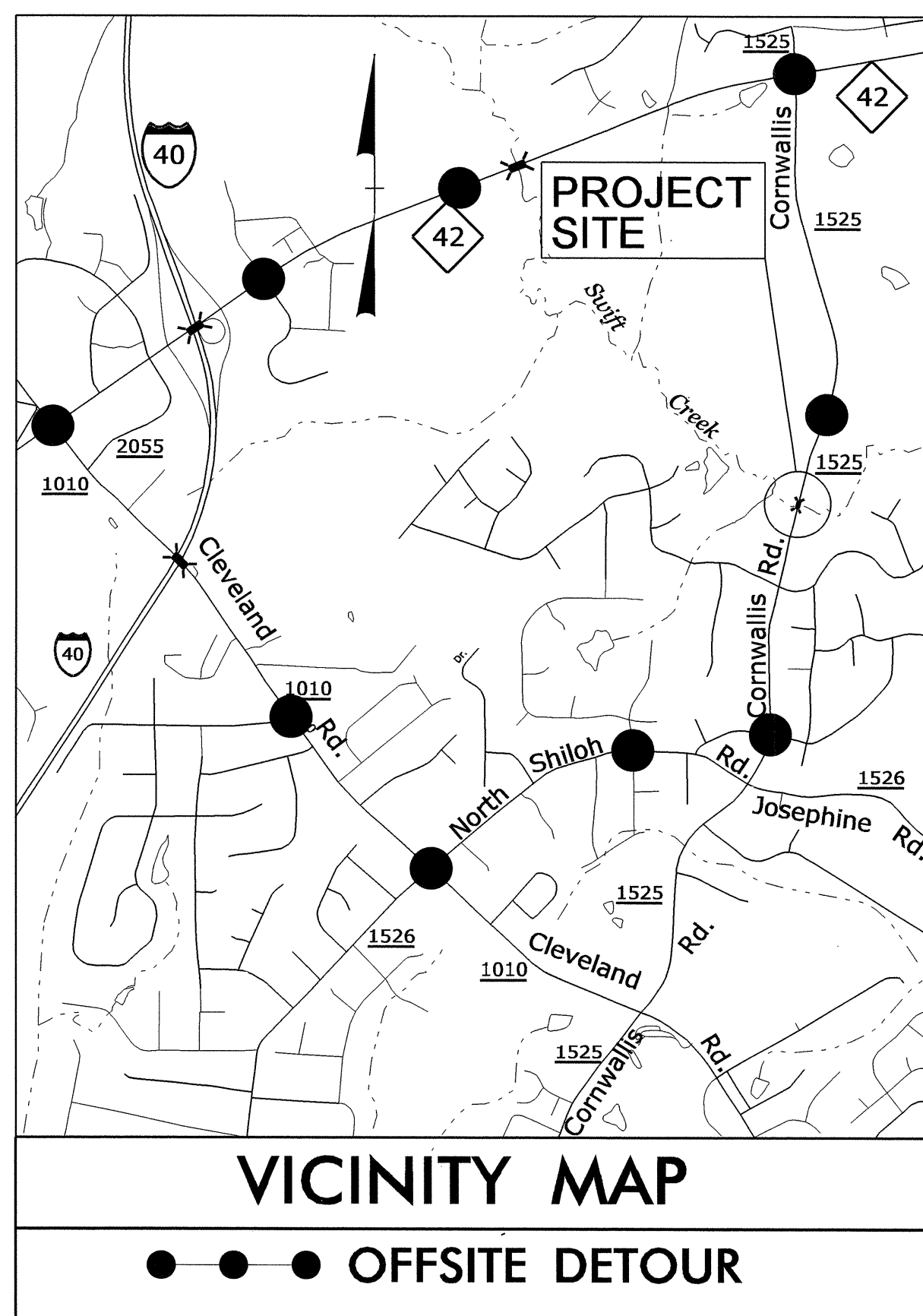


STATE OF NORTH CAROLINA
DIVISION OF HIGHWAYS

UTILITY CONSTRUCTION PLANS
JOHNSTON COUNTY

LOCATION: BRIDGE NO. 147 OVER SWIFT CREEK ON SR 1525
TYPE OF WORK: RELOCATION OF WATER AND SEWER LINES

JOHNSTON COUNTY TIP PROJECT: B-4561

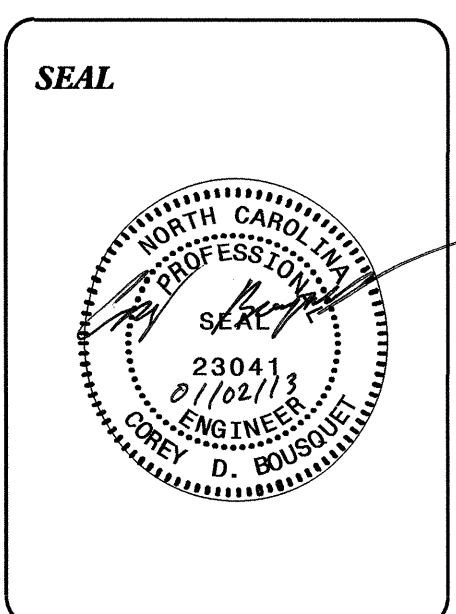


INDEX OF SHEETS

SHEET NO.	DESCRIPTION
UC-1	TITLE SHEET
UC-2	UTILITY SYMBOLOGY
UC-3	NOTES
UC-3A,3B	DETAIL
UC-4	UTILITY CONSTRUCTION SHEET
UC-5 THRU UC-13	PROFILE SHEETS

WATER AND SEWER OWNERS ON PROJECT

(1) JOHNSON COUNTY PUBLIC UTILITIES (WATER AND SEWER)



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
Kelvin Martin UTILITIES PROJECT DESIGNER

STATE OF NORTH CAROLINA
DIVISION OF HIGHWAYS

UTILITIES PLAN SHEET SYMBOLS

PROPOSED WATER SYMBOLS

Water Line (Sized as Shown)	----- 12" WL -----
11¼ Degree Bend	----- + + -----
22½ Degree Bend	----- + + -----
45 Degree Bend	----- + x -----
90 Degree Bend	----- + -----
Plug	----- -----
Tee	----- + -----
Cross	----- + + -----
Reducer	----- ▶ -----
Gate Valve	----- GV -----
Butterfly Valve	----- BV -----
Tapping Valve	----- TGV -----
Line Stop	----- LS -----
Line Stop with Bypass	----- LS/BP -----
Blow Off	----- BO -----
Fire Hydrant	----- FH -----
Relocate Fire Hydrant	----- REM FH -----
Remove Fire Hydrant	----- REM FH -----
Water Meter	----- WM -----
Relocate Water Meter	----- REM WM -----
Remove Water Meter	----- REM WM -----
Water Pump Station	----- PS(W) -----
RPZ Backflow Preventer	----- PRPZ -----
DCV Backflow Preventer	----- PBF -----
Relocate RPZ Backflow Preventer	----- RRPZ -----
Relocate DCV Backflow Preventer	----- RBFP -----

PROPOSED SEWER SYMBOLS

Gravity Sewer Line (Sized as Shown)	----- 12" SS -----
Force Main Sewer Line (Sized as Shown)	----- 12" FSS -----
Manhole (Sized per Note)	----- • -----
Sewer Pump Station	----- PS(SS) -----

PROPOSED MISCELLANEOUS UTILITIES SYMBOLS

Power Pole	----- o -----
Telephone Pole	----- o -----
Joint Use Pole	----- o -----
Telephone Pedestal	----- TEL PED -----
Utility Line by Others (Type as Shown)	----- PROP O/H POW LINES -----
Trenchless Installation	----- 12" TL INSTALL -----
Encasement by Open Cut	----- 24" ENCAS BY OC -----
Encasement	----- 24" ENCASMENT -----

Thrust Block	----- -----
Air Release Valve	----- AR -----
Utility Vault	----- UV -----
Concrete Pier	----- CP -----
Steel Pier	----- SP -----
Plan Note	----- NOTE -----
Pay Item Note	----- PAY ITEM -----

EXISTING UTILITIES SYMBOLS

Power Pole	----- • -----	*Underground Power Line	----- P -----
Telephone Pole	----- • -----	*Underground Telephone Cable	----- T -----
Joint Use Pole	----- • -----	*Underground Telephone Conduit	----- TC -----
Utility Pole	----- • -----	*Underground Fiber Optics Telephone Cable	----- T FO -----
Utility Pole with Base	----- □ -----	*Underground TV Cable	----- TV -----
H-Frame Pole	----- •-----	*Underground Fiber Optics TV Cable	----- TV FO -----
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	----- ⊗ -----	*Underground Gravity Sanitary Sewer Line	----- SS -----
Hand Hole for Cable	----- ☒ -----	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	----- ◇ -----	Water Meter	----- ⊖ -----
Gas Meter	----- ◇ -----	Water Valve	----- ⊖ -----
Located Miscellaneous Utility Object	----- o -----	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 (Type as Shown) ----- W -----
 Designated Utility Line (Type as Shown) ----- W -----

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5/14/99

UTILITY CONSTRUCTION

PROJECT REFERENCE NO. B-4561	SHEET NO. UC-3
DESIGNED BY: KSM	
DRAWN BY: KSM	
CHECKED BY: CDB	
APPROVED BY: CDB	
REVISED:	
NORTH CAROLINA DEPARTMENT OF TRANSPORTATION UTILITIES ENGINEERING SEC. PHONE: (919) 707-6690 FAX: (919) 250-4151	
UTILITY CONSTRUCTION PLANS ONLY	

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 ADDITIONAL 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.
3. THE DUCTILE IRON SEWER PIPES SHALL BE COATED ON THE INSIDE WITH PROTECTO 401 CERAMIC EPOXY.

UTILITY CONSTRUCTION

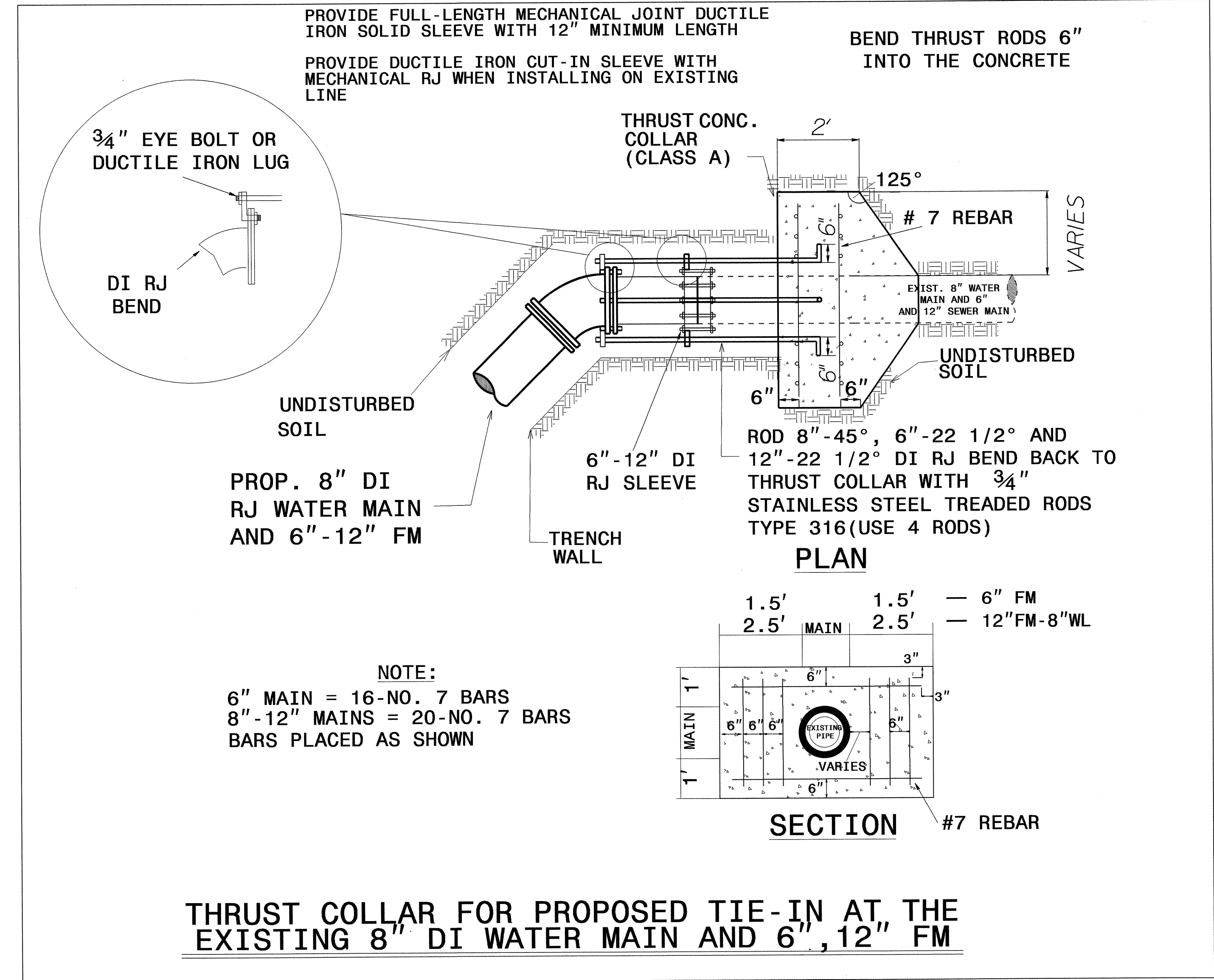
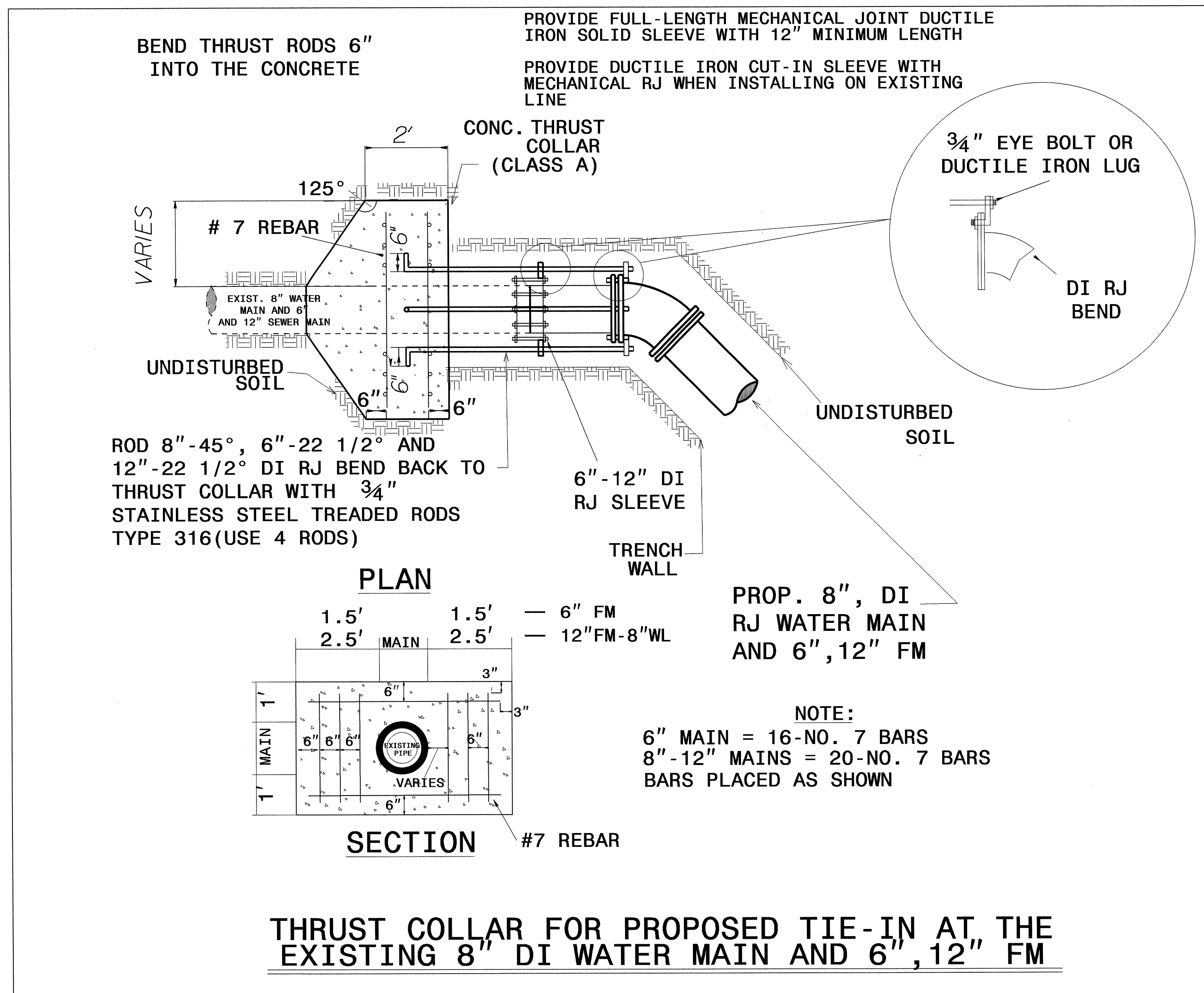
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PROJECT TYPICAL DETAILS

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DESIGNED BY: KSM	
DRAWN BY: KSM	
CHECKED BY: CDB	
APPROVED BY: CDB	
REVISED:	
NORTH CAROLINA DEPARTMENT OF TRANSPORTATION	
UTILITIES ENGINEERING SEC. PHONE: (919) 707-6690 FAX: (919) 250-4151	
UTILITY CONSTRUCTION PLANS ONLY	

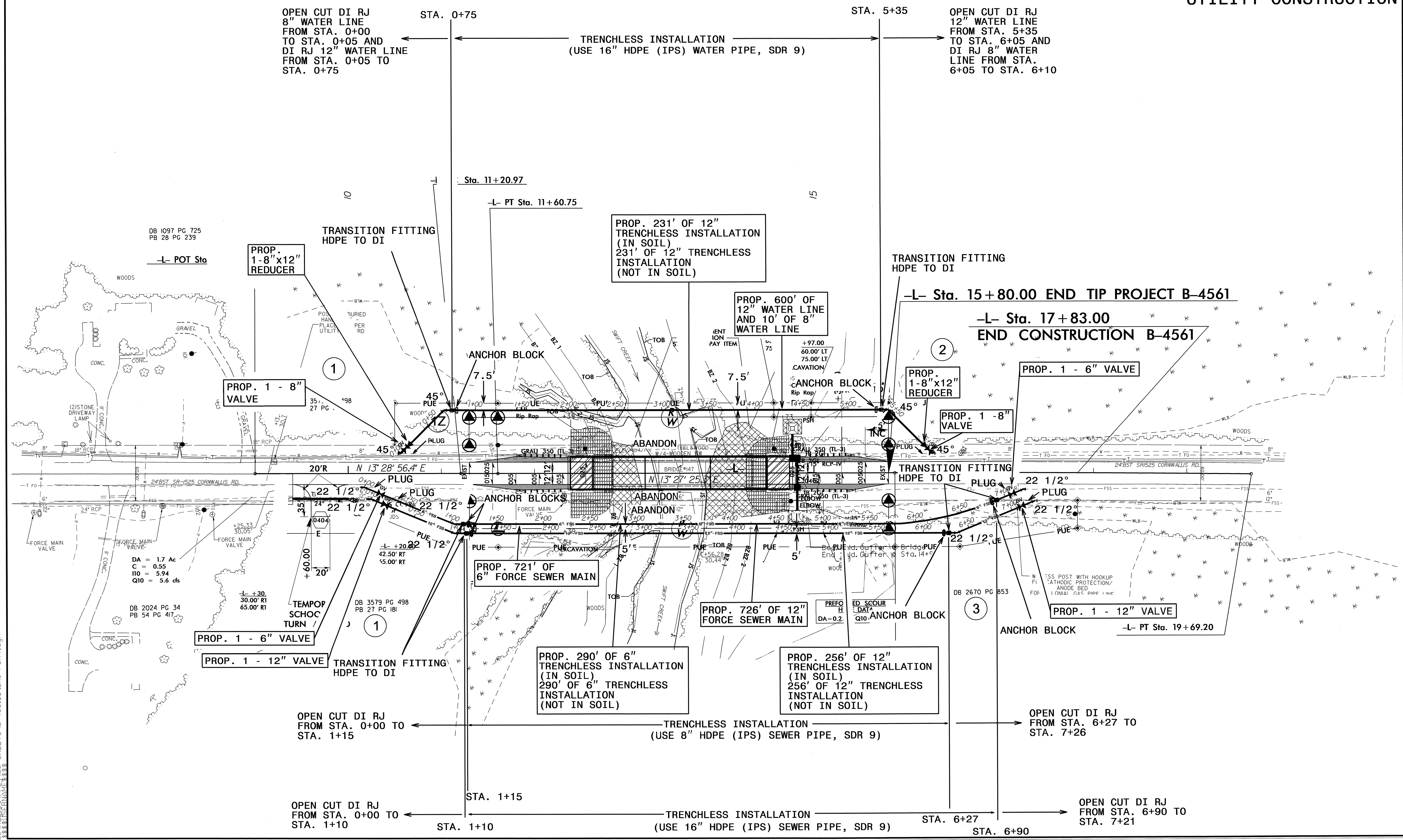
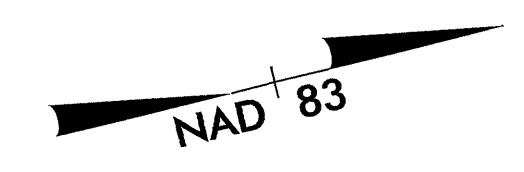
UTILITY CONSTRUCTION



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B-4561	UC-4
DESIGNED BY: KSM	
DRAWN BY: KSM	
CHECKED BY: CDB	
APPROVED BY: CDB	
REVISD:	
NORTH CAROLINA DEPARTMENT OF TRANSPORTATION UTILITIES ENGINEERING SEC. PHONE: (919) 707-6690 FAX: (919) 250-4151	
UTILITY CONSTRUCTION PLANS ONLY	

UTILITY CONSTRUCTION



OPEN CUT DI RJ
8" WATER LINE
FROM STA. 0+00
TO STA. 0+05 AND
DI RJ 12" WATER LINE
FROM STA. 0+05 TO
STA. 0+75

TRENCHLESS INSTALLATION
(USE 16" HDPE (IPS) WATER PIPE, SDR 9)

OPEN CUT DI RJ
12" WATER LINE
FROM STA. 5+35
TO STA. 6+05 AND
DI RJ 8" WATER
LINE FROM STA.
6+05 TO STA. 6+10

PROP. 231' OF 12"
TRENCHLESS INSTALLATION
(IN SOIL)
231' OF 12" TRENCHLESS
INSTALLATION
(NOT IN SOIL)

PROP. 600' OF
12" WATER LINE
AND 10' OF 8"
WATER LINE

PROP. 721' OF
6" FORCE SEWER MAIN

PROP. 726' OF 12"
FORCE SEWER MAIN

PROP. 290' OF 6"
TRENCHLESS INSTALLATION
(IN SOIL)
290' OF 6" TRENCHLESS
INSTALLATION
(NOT IN SOIL)

PROP. 256' OF 12"
TRENCHLESS INSTALLATION
(IN SOIL)
256' OF 12" TRENCHLESS
INSTALLATION
(NOT IN SOIL)

OPEN CUT DI RJ
FROM STA. 0+00 TO
STA. 1+15

TRENCHLESS INSTALLATION
(USE 8" HDPE (IPS) SEWER PIPE, SDR 9)

OPEN CUT DI RJ
FROM STA. 6+27 TO
STA. 7+26

OPEN CUT DI RJ
FROM STA. 0+00 TO
STA. 1+10

TRENCHLESS INSTALLATION
(USE 16" HDPE (IPS) SEWER PIPE, SDR 9)

OPEN CUT DI RJ
FROM STA. 6+90 TO
STA. 7+21

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DB 1097 PG 725
PB 28 PG 239

DB 2024 PG 34
PB 54 PG 417

DB 3579 PG 498
PB 27 PG 181

DB 2670 PG 853

DA = 1.7 Ac
C = 0.55
I10 = 5.94
Q10 = 5.6 cfs

TEMPOR
SCHOC
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PREFE
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DATA
Q10

555 POST WITH HOOKUP
CATHODIC PROTECTION/
ANODE BED
FORWARD GAS PIPE 1 IN

-L- POT Sta

Sta. 11+20.97

-L- PT Sta. 11+60.75

STA. 5+35

TRANSITION FITTING
HDPE TO DI

-L- Sta. 15+80.00 END TIP PROJECT B-4561

-L- Sta. 17+83.00
END CONSTRUCTION B-4561

PROP. 1 - 6" VALVE

PROP. 1-8"x12"
REDUCER

PROP. 1 - 8"
VALVE

TRANSITION FITTING
HDPE TO DI

PROP. 1 - 12" VALVE

ANCHOR BLOCK

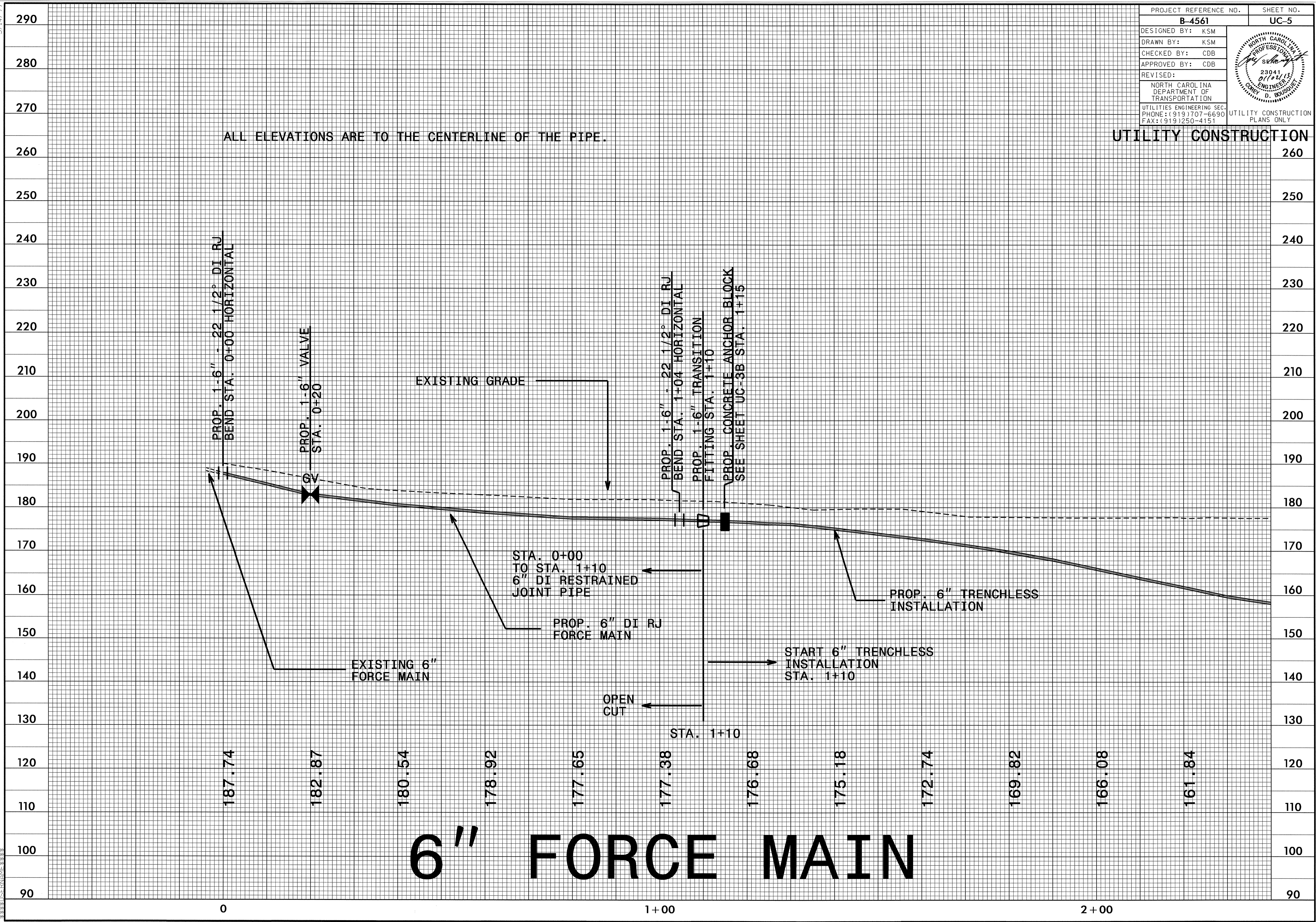
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CHECKED BY: CDB	
APPROVED BY: CDB	
REVISED:	
NORTH CAROLINA DEPARTMENT OF TRANSPORTATION	
UTILITIES ENGINEERING SEC. PHONE: (919) 707-6690 FAX: (919) 250-4151	
UTILITY CONSTRUCTION PLANS ONLY	

ALL ELEVATIONS ARE TO THE CENTERLINE OF THE PIPE.

UTILITY CONSTRUCTION



6" FORCE MAIN

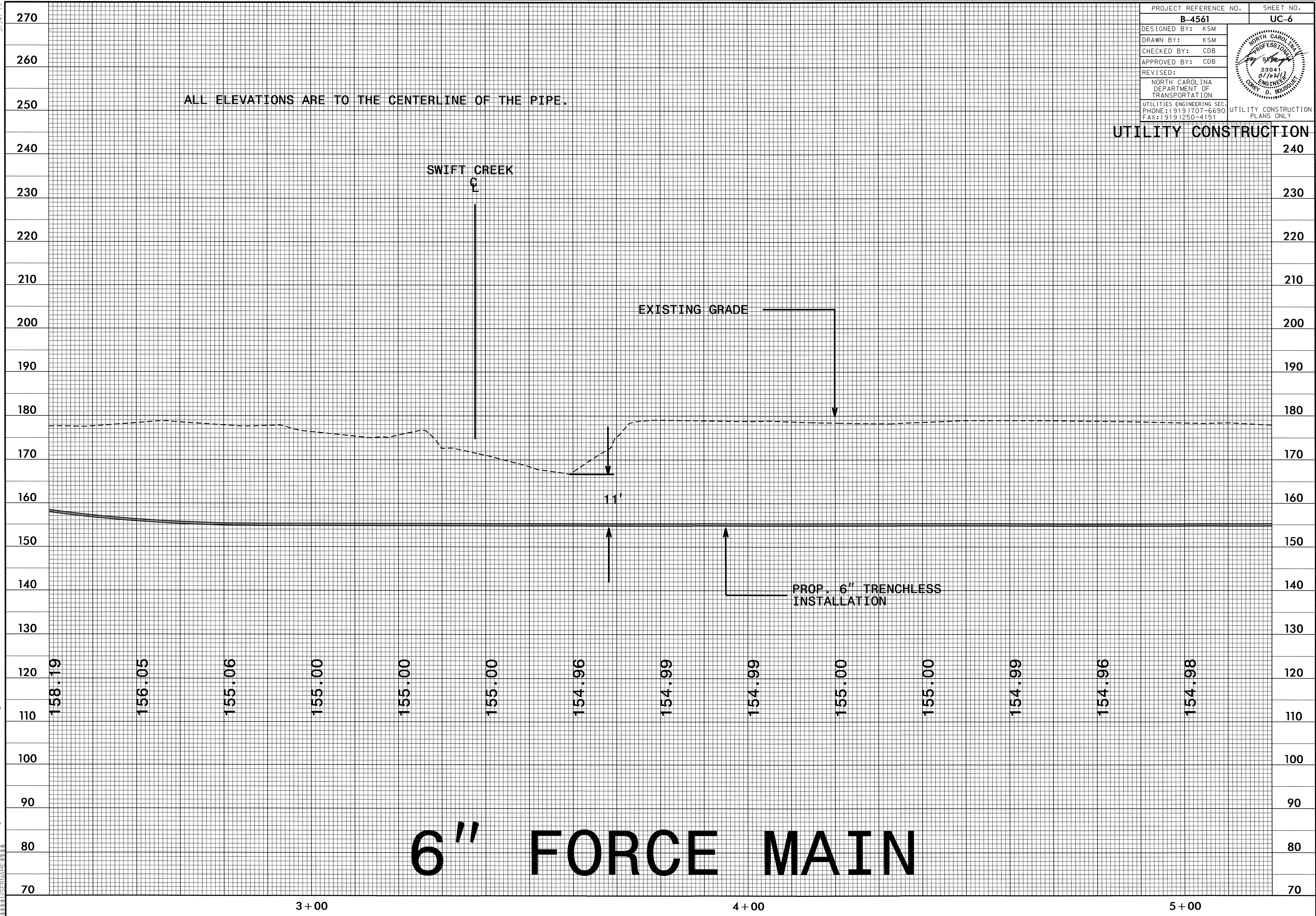
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NORTH CAROLINA DEPARTMENT OF TRANSPORTATION UTILITIES ENGINEERING SEC. PHONE: (919) 707-6690 FAX: (919) 250-4151	
UTILITY CONSTRUCTION PLANS ONLY	

ALL ELEVATIONS ARE TO THE CENTERLINE OF THE PIPE.

UTILITY CONSTRUCTION



6" FORCE MAIN

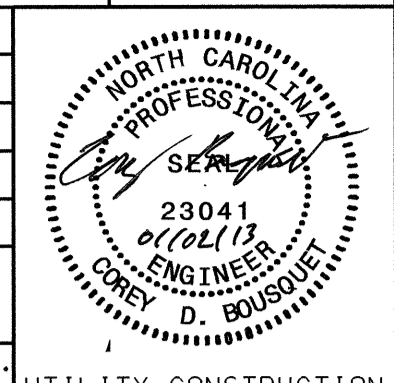
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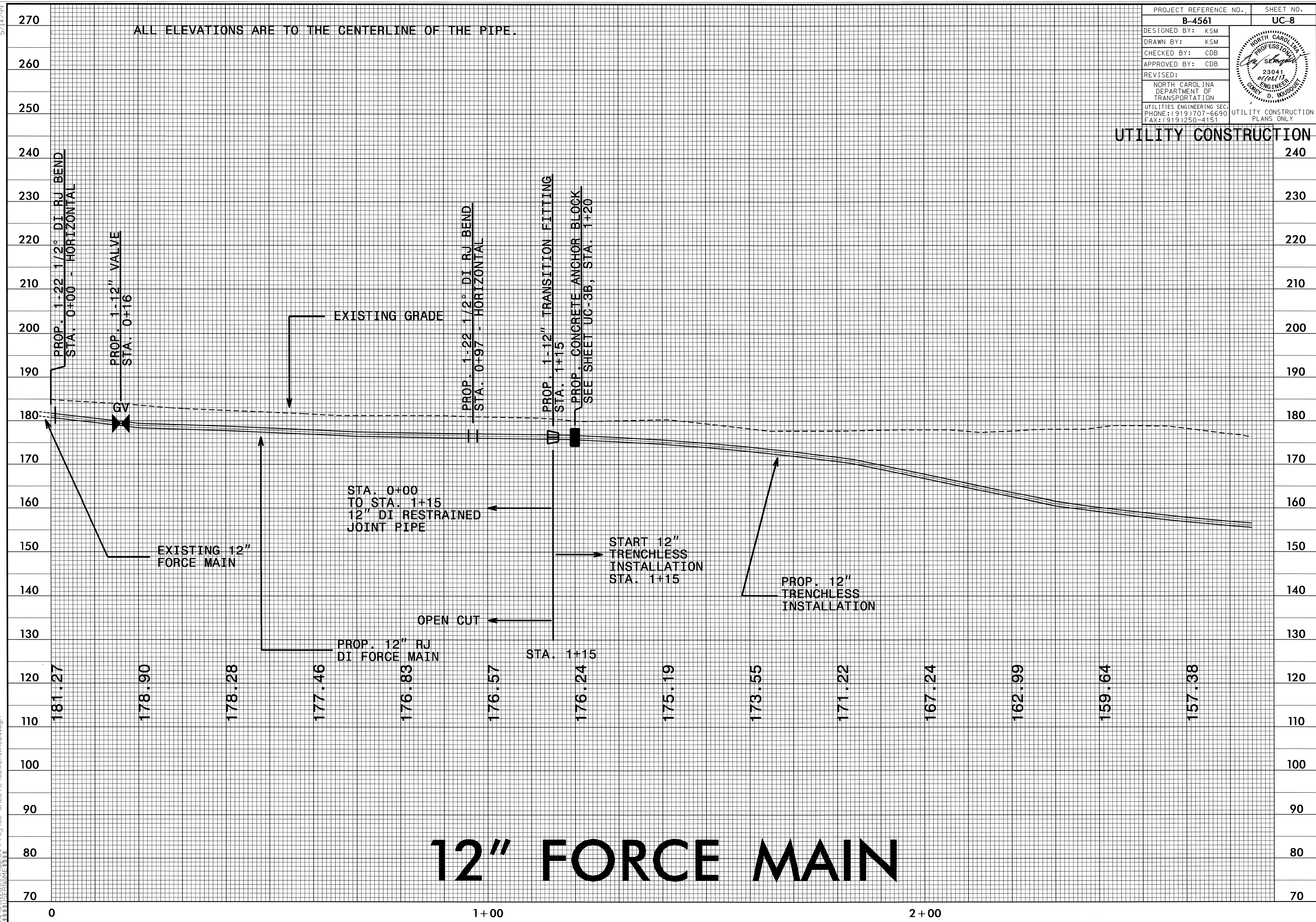
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NORTH CAROLINA DEPARTMENT OF TRANSPORTATION	
UTILITIES ENGINEERING SEC. PHONE: (919) 707-6690 FAX: (919) 250-4151	
UTILITY CONSTRUCTION PLANS ONLY	

ALL ELEVATIONS ARE TO THE CENTERLINE OF THE PIPE.



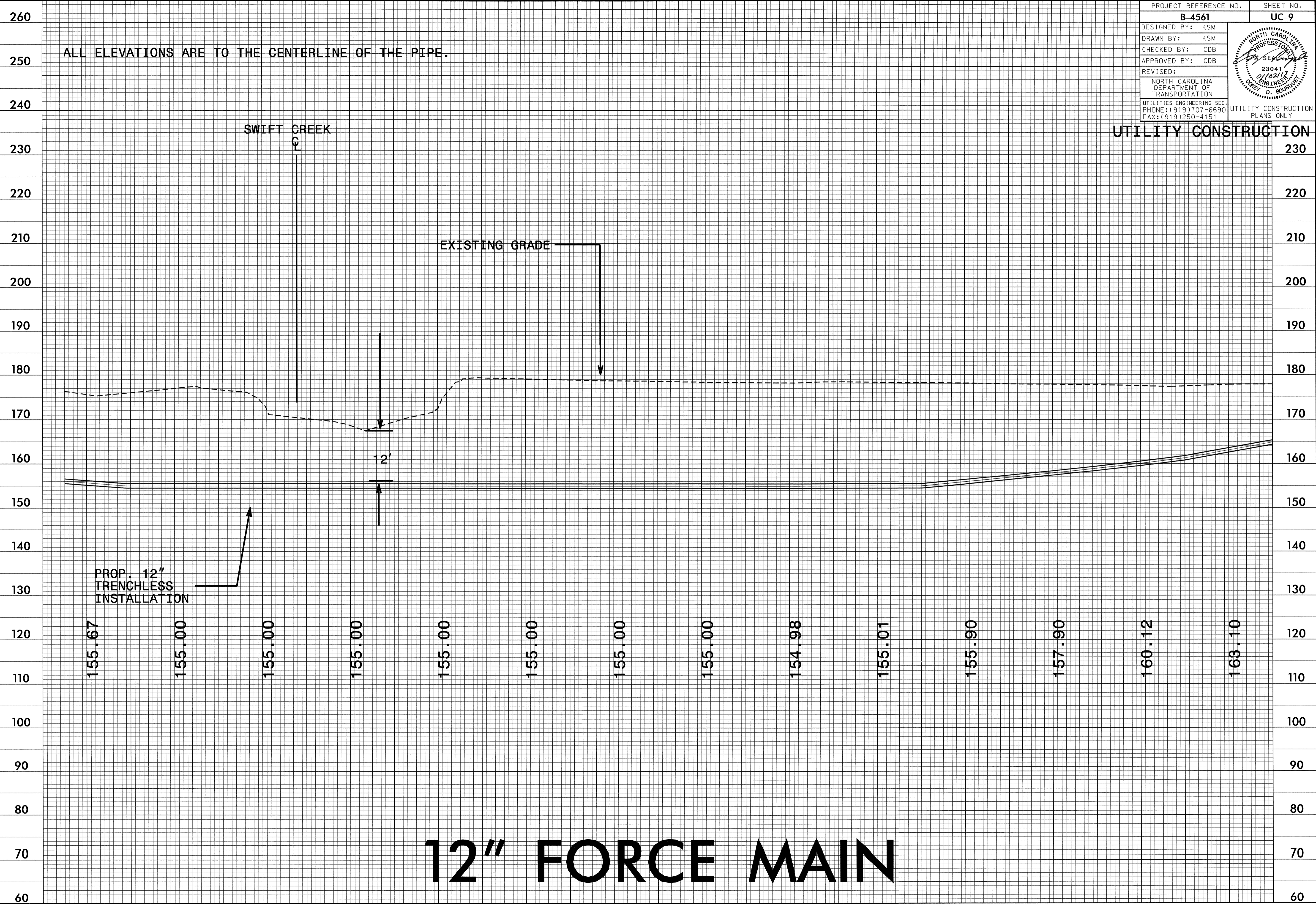
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B-4561	UC-9
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DRAWN BY: KSM	
CHECKED BY: CDB	
APPROVED BY: CDB	
REVISED:	
NORTH CAROLINA DEPARTMENT OF TRANSPORTATION	
UTILITIES ENGINEERING SEC. PHONE: (919)707-6690 FAX: (919)250-4151	UTILITY CONSTRUCTION PLANS ONLY

ALL ELEVATIONS ARE TO THE CENTERLINE OF THE PIPE.



UTILITY CONSTRUCTION

12" FORCE MAIN

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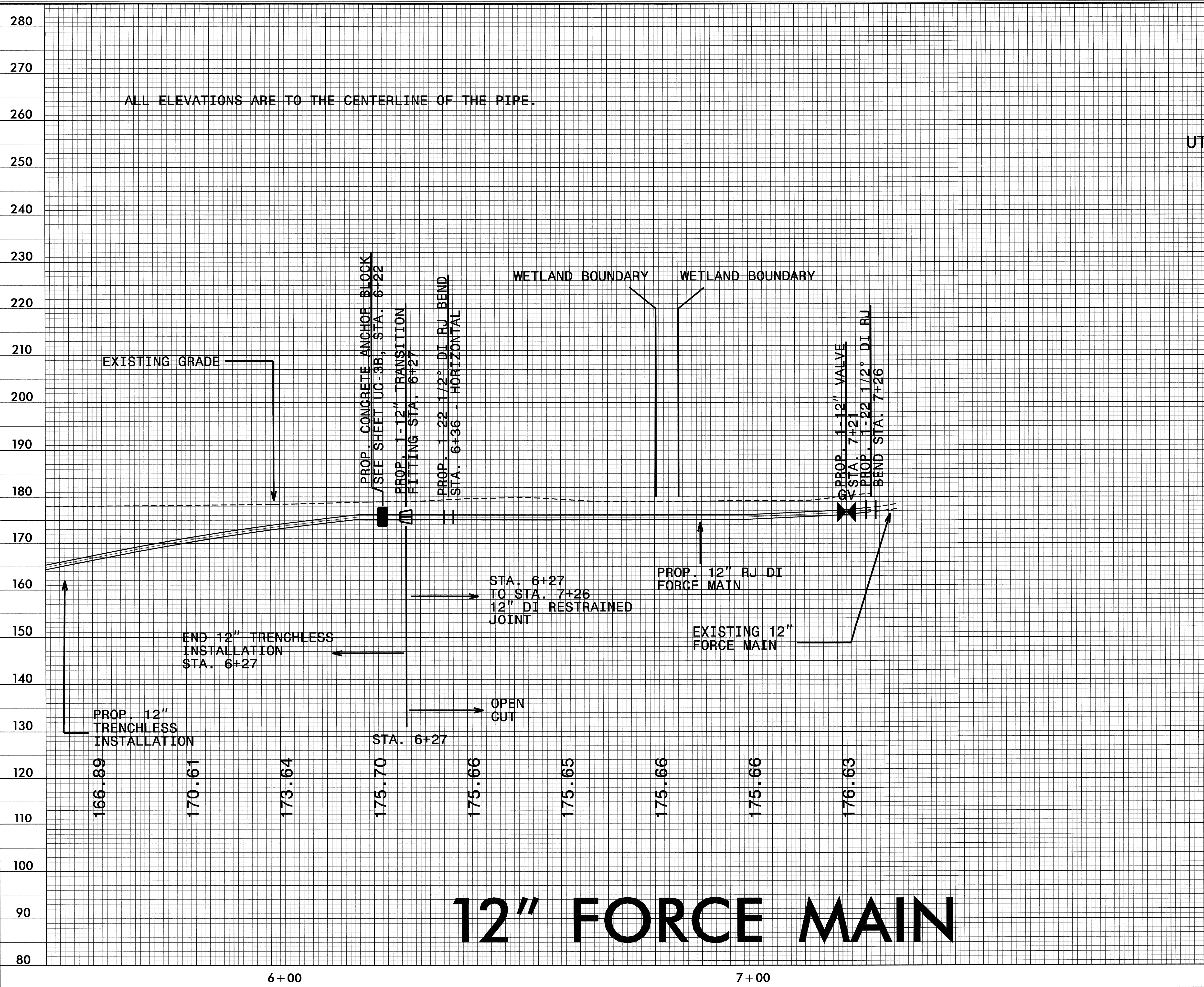
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CHECKED BY: CDB	
APPROVED BY: CDB	
REVISED:	
NORTH CAROLINA DEPARTMENT OF TRANSPORTATION UTILITIES ENGINEERING SEC. PHONE: (919)707-6690 FAX: (919)250-4151	
UTILITY CONSTRUCTION PLANS ONLY	



ALL ELEVATIONS ARE TO THE CENTERLINE OF THE PIPE.

UTILITY CONSTRUCTION

12" FORCE MAIN

6+00

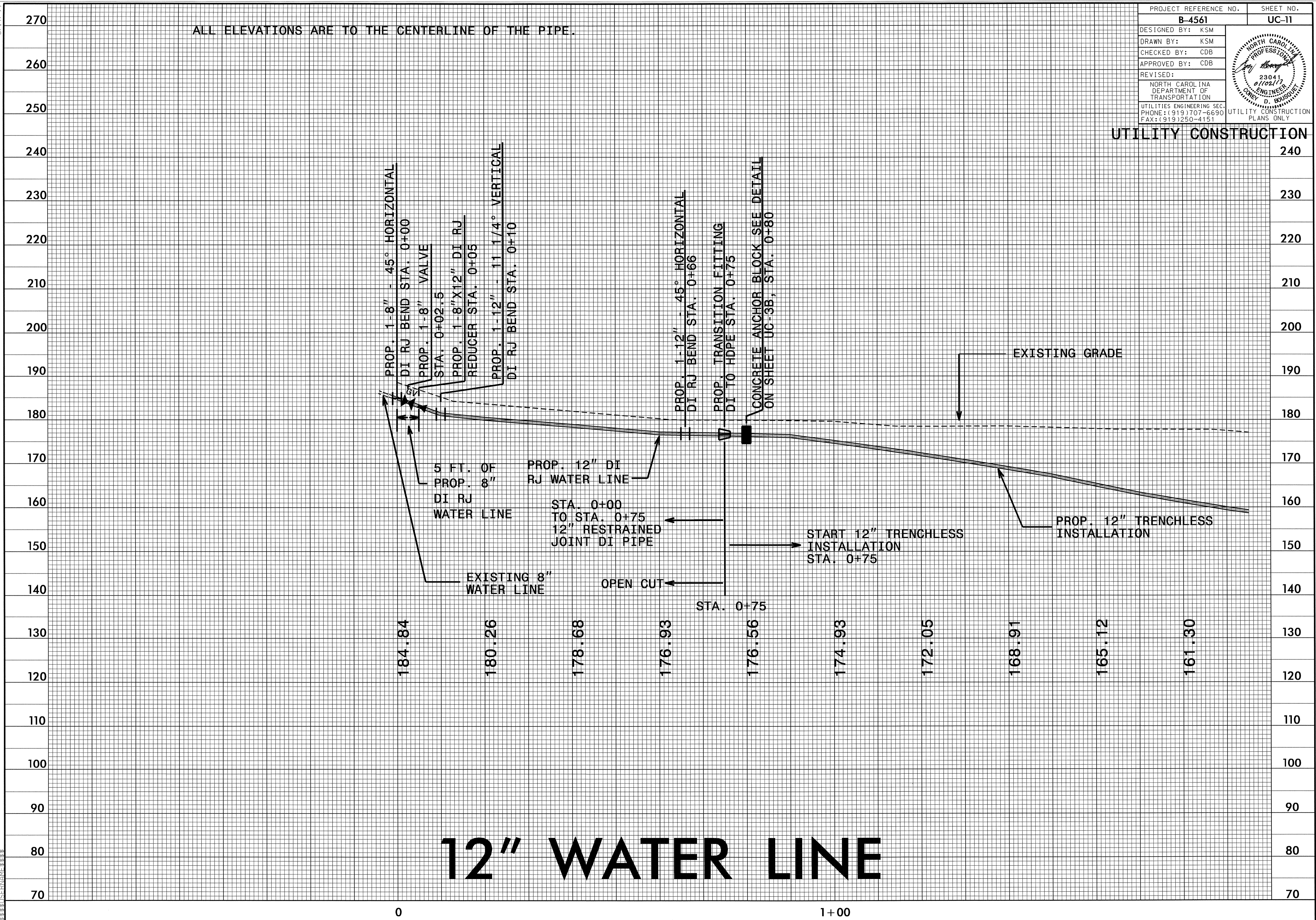
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PROJECT REFERENCE NO.	SHEET NO.
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REVISED:	
NORTH CAROLINA DEPARTMENT OF TRANSPORTATION	
UTILITIES ENGINEERING SEC. PHONE: (919) 707-6690 FAX: (919) 250-4151	UTILITY CONSTRUCTION PLANS ONLY

ALL ELEVATIONS ARE TO THE CENTERLINE OF THE PIPE.

UTILITY CONSTRUCTION



12" WATER LINE

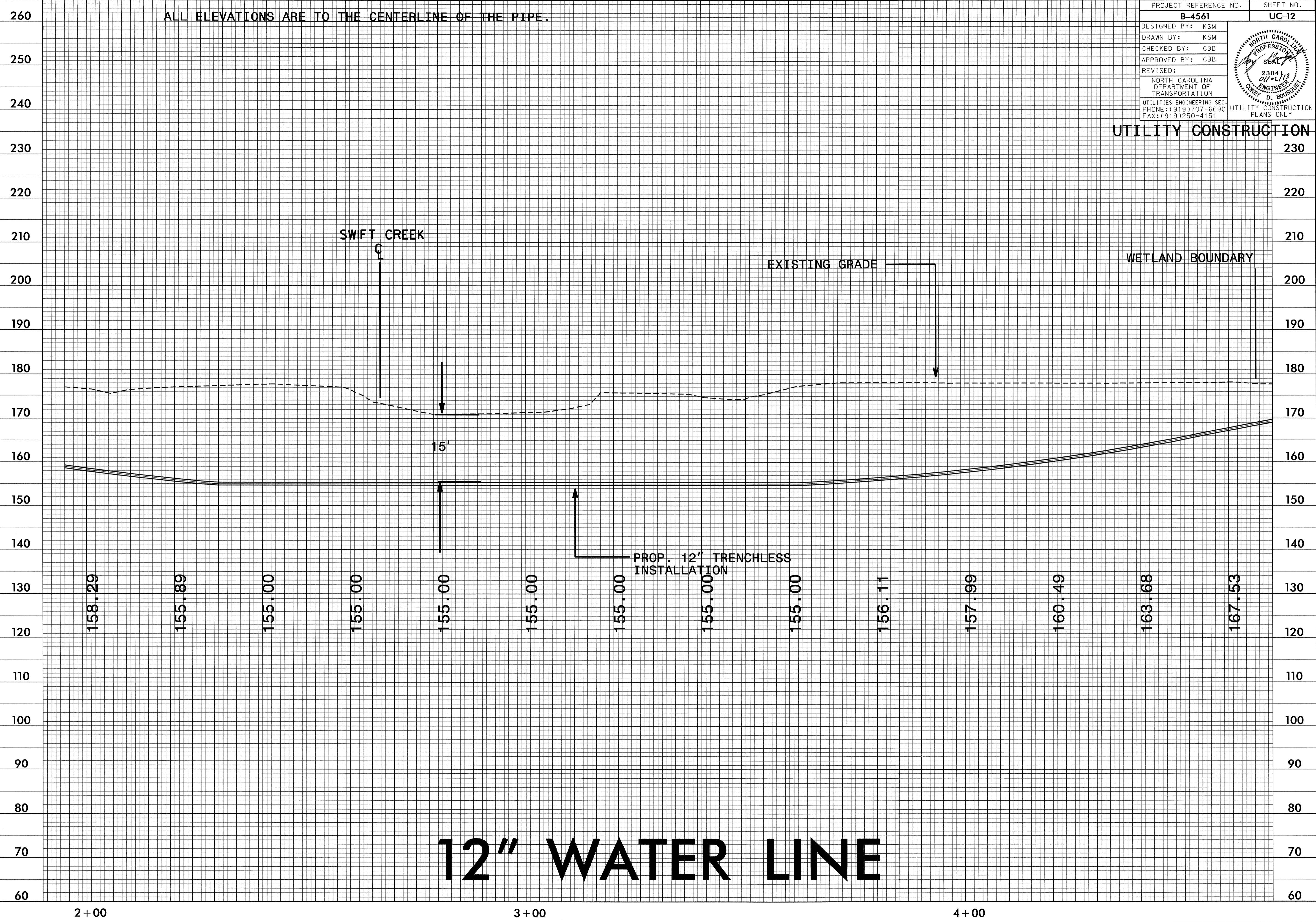
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ALL ELEVATIONS ARE TO THE CENTERLINE OF THE PIPE.

SWIFT CREEK

EXISTING GRADE

WETLAND BOUNDARY

PROP. 12" TRENCHLESS INSTALLATION

12" WATER LINE

UTILITY CONSTRUCTION

PROJECT REFERENCE NO. B-4561	SHEET NO. UC-12
DESIGNED BY: KSM	
DRAWN BY: KSM	
CHECKED BY: CDB	
APPROVED BY: CDB	
REVISED:	
NORTH CAROLINA DEPARTMENT OF TRANSPORTATION	
UTILITIES ENGINEERING SEC. PHONE: (919) 707-6690 FAX: (919) 250-4151	UTILITY CONSTRUCTION PLANS ONLY

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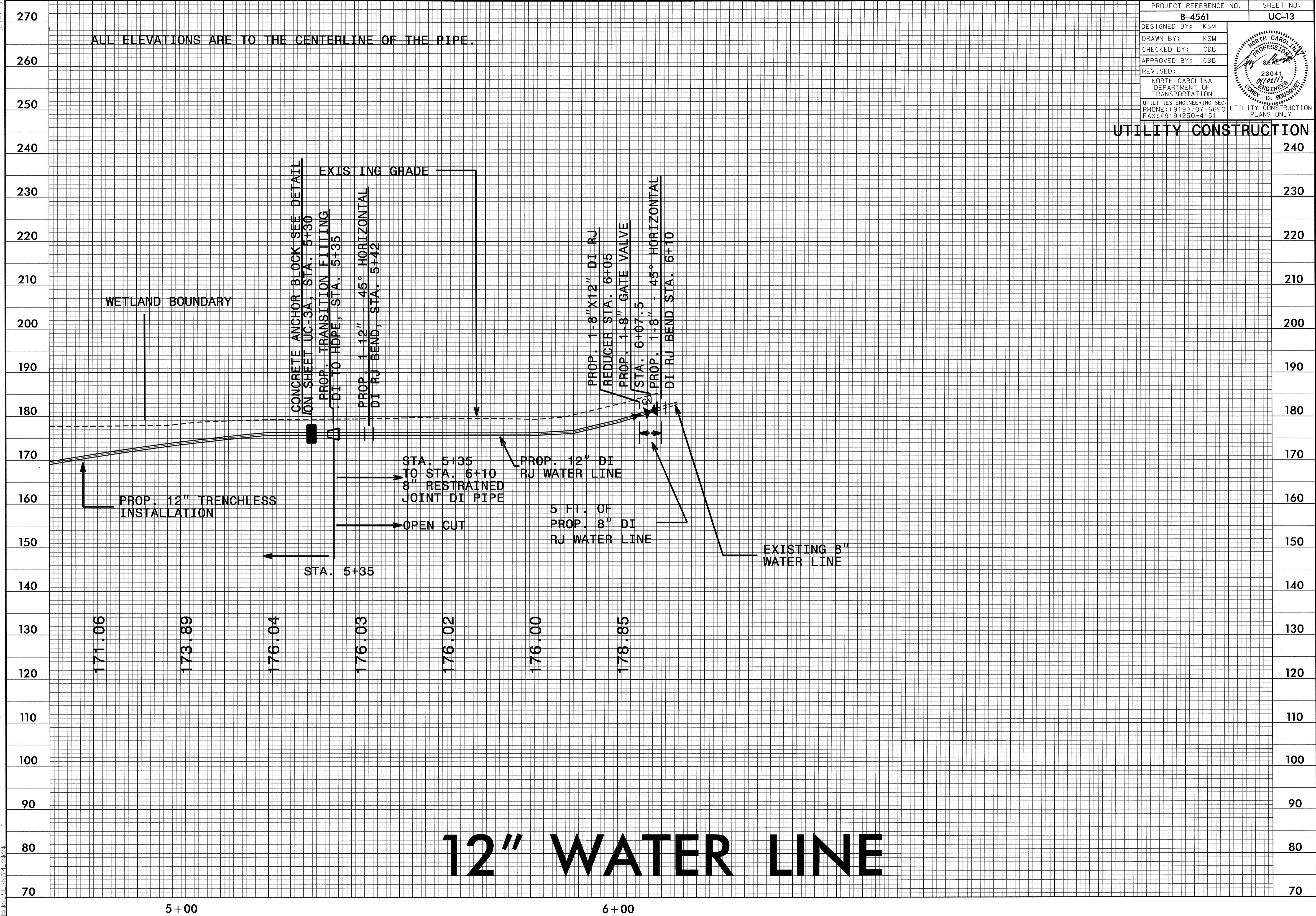
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PROJECT REFERENCE NO.	SHEET NO.
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CHECKED BY: CDB	
APPROVED BY: CDB	
REVISED:	
NORTH CAROLINA DEPARTMENT OF TRANSPORTATION UTILITIES ENGINEERING SEC. PHONE: (919) 707-6690 FAX: (919) 250-4151	
UTILITY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

UTILITY CONSTRUCTION



ALL ELEVATIONS ARE TO THE CENTERLINE OF THE PIPE.

WETLAND BOUNDARY

PROP. 12" TRENCHLESS INSTALLATION

STA. 5+35 TO STA. 6+10 8" RESTRAINED JOINT DI PIPE

OPEN CUT

PROP. 12" DI RJ WATER LINE

5 FT. OF PROP. 8" DI RJ WATER LINE

EXISTING 8" WATER LINE

EXISTING GRADE

CONCRETE ANCHOR BLOCK SEE DETAIL ON SHEET UC-3A, STA. 5+30
 PROP. TRANSITION FITTING DI TO HDPE, STA. 5+35
 PROP. 1-12" - 45° HORIZONTAL DI RJ BEND, STA. 5+42

PROP. 1-8"X12" DI RJ REDUCER STA. 6+05
 PROP. 1-8" GATE VALVE STA. 6+07.5
 PROP. 1-8" - 45° HORIZONTAL DI RJ BEND STA. 6+10

171.06

173.89

176.04

176.03

176.02

176.00

178.85

12" WATER LINE

5+00

6+00

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See Sheet 1-A For Index of Sheets
See Sheet 1-B For Conventional Symbols

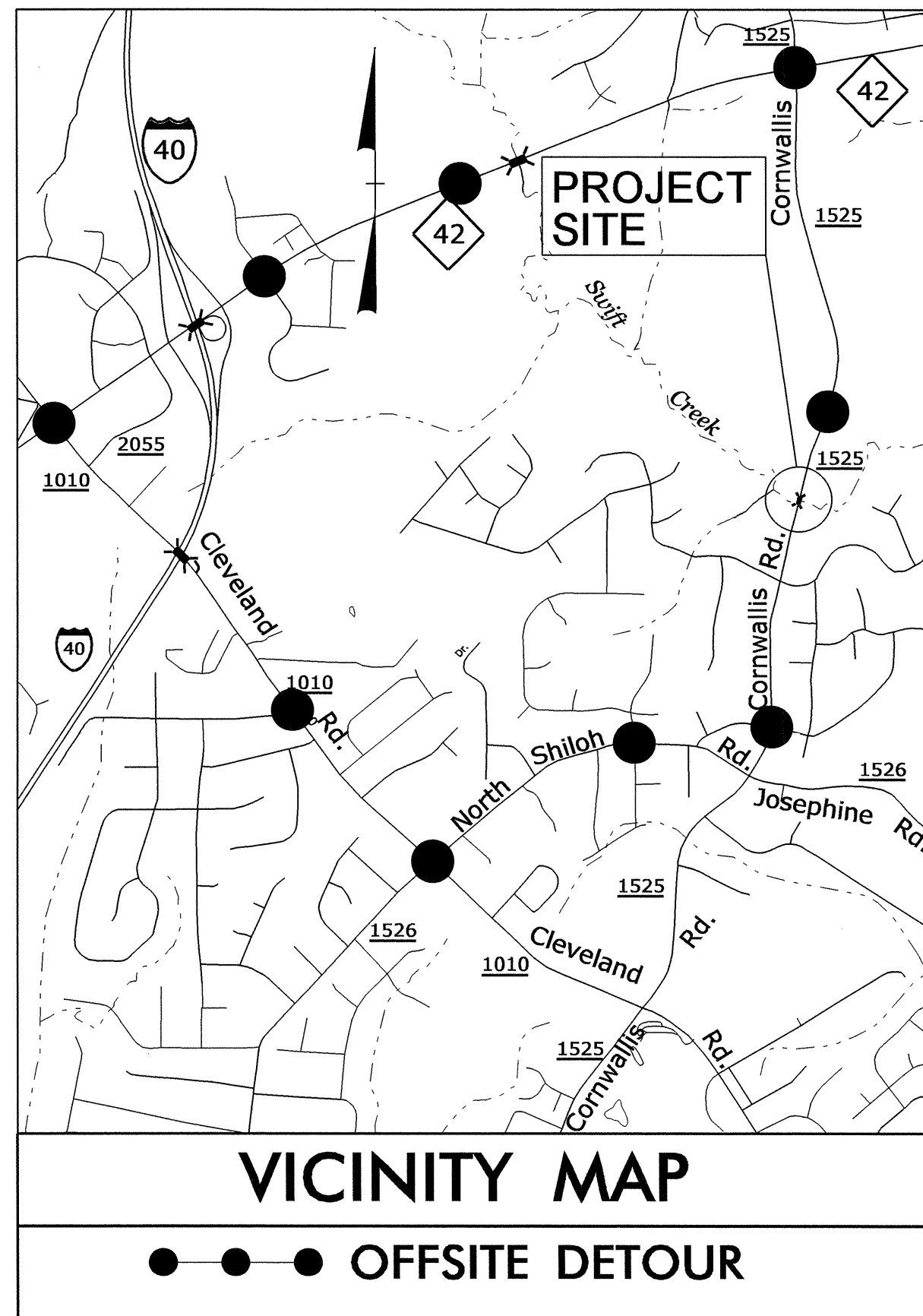
T.I.P. NO.	SHEET NO.
B-4561	UO-1

STATE OF NORTH CAROLINA
DIVISION OF HIGHWAYS

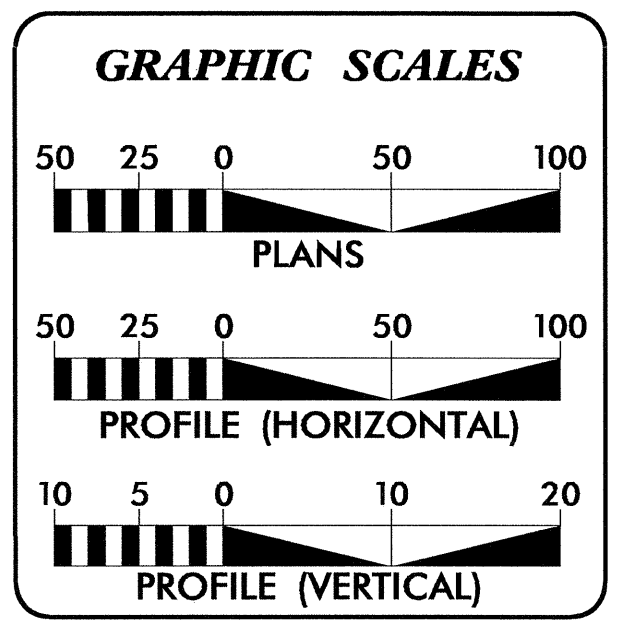
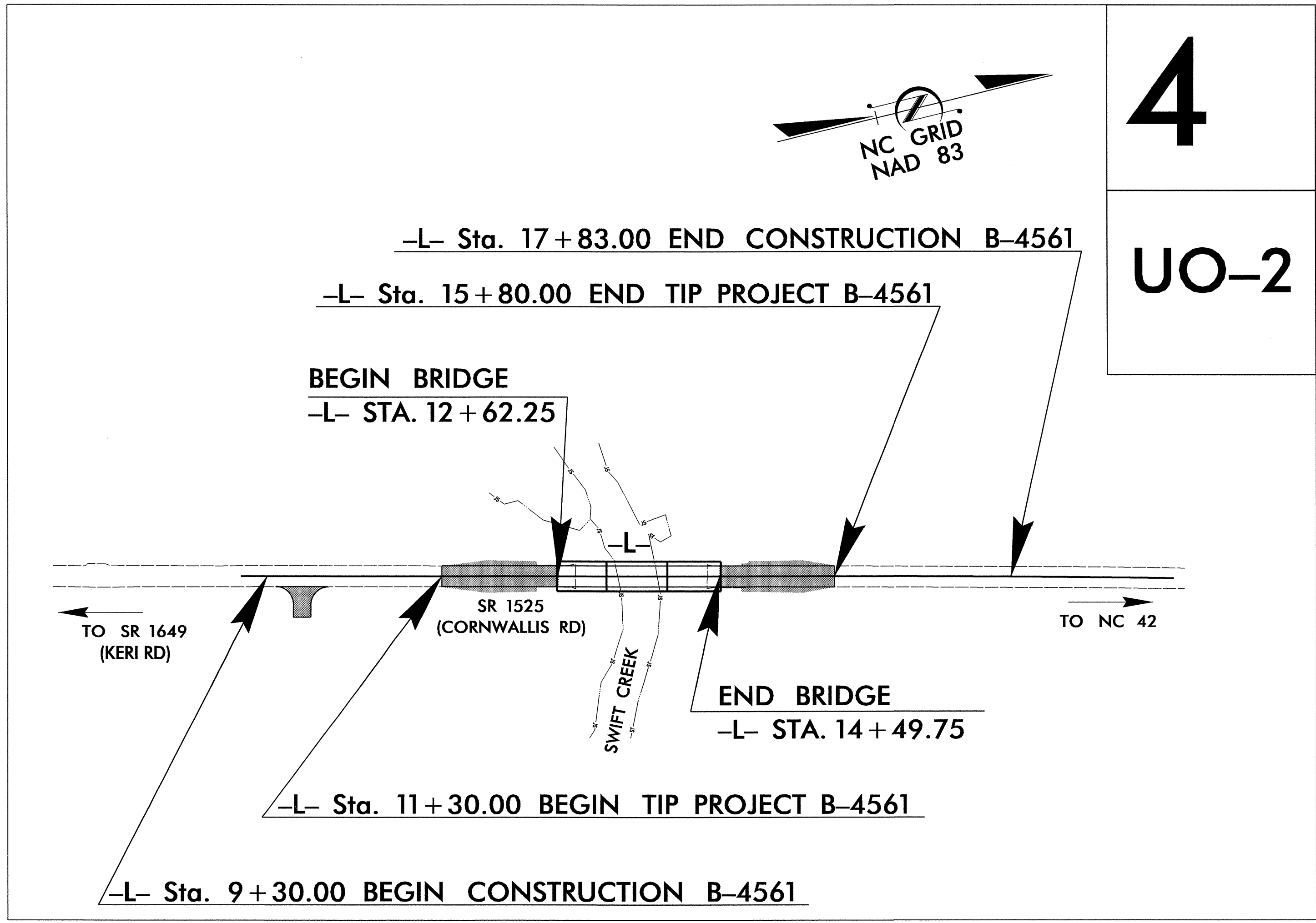
**UTILITIES BY OTHERS PLANS
JOHNSTON COUNTY**

LOCATION: BRIDGE NO.147 OVER SWIFT CREEK ON SR 1525
TYPE OF WORK: RELOCATION OF POWER AND TELEPHONE LINE

TIP PROJECT: B-4561



ROW PLANS



INDEX OF SHEETS

SHEET NO.	DESCRIPTION
UO-1	TITLE SHEET
UO-2	UTILITY BY OTHERS PLAN SHEET

UTILITY OWNERS ON PROJECT

(1) PROGRESS ENERGY (POWER)
(2) CENTURYLINK (TELEPHONE)

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
Kelvin Martin UTILITIES PROJECT DESIGNER

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UTILITIES BY OTHERS

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

5/14/99

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