

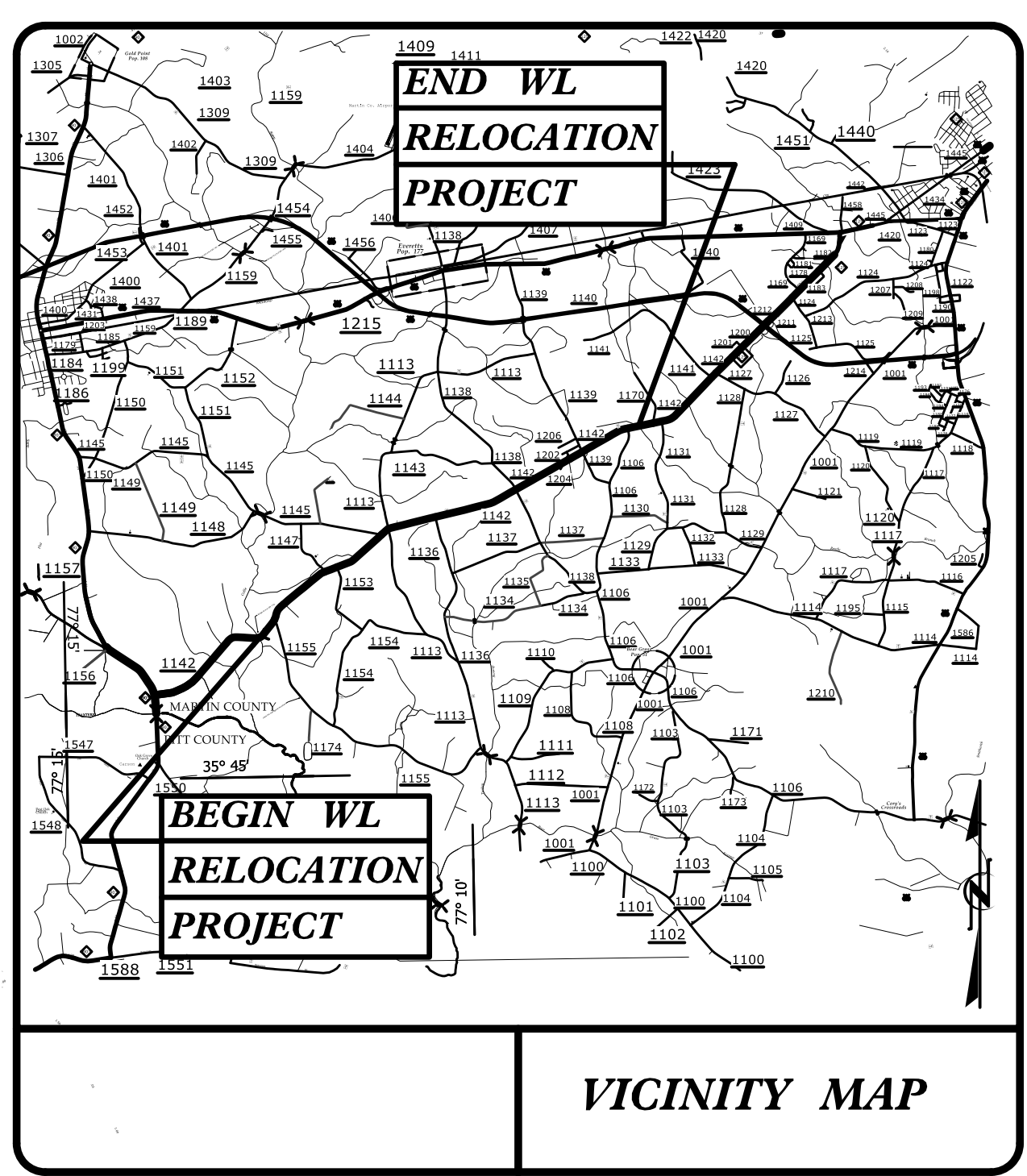
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09_02B/299

TIP PROJECT: R-4705



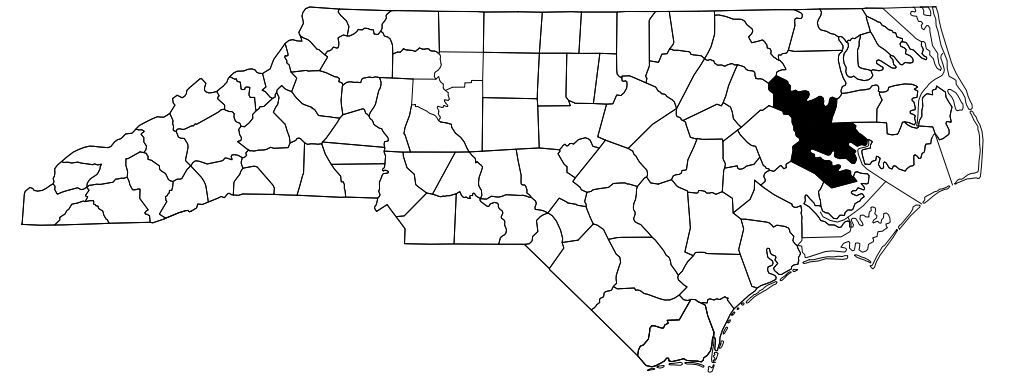
STATE OF NORTH CAROLINA
DIVISION OF HIGHWAYS

UTILITY CONSTRUCTION PLANS
MARTIN COUNTY

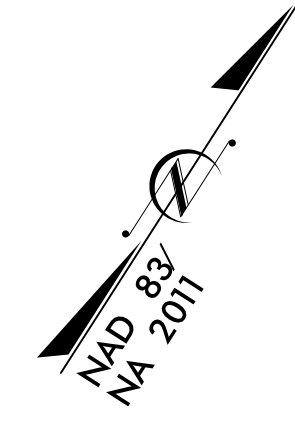
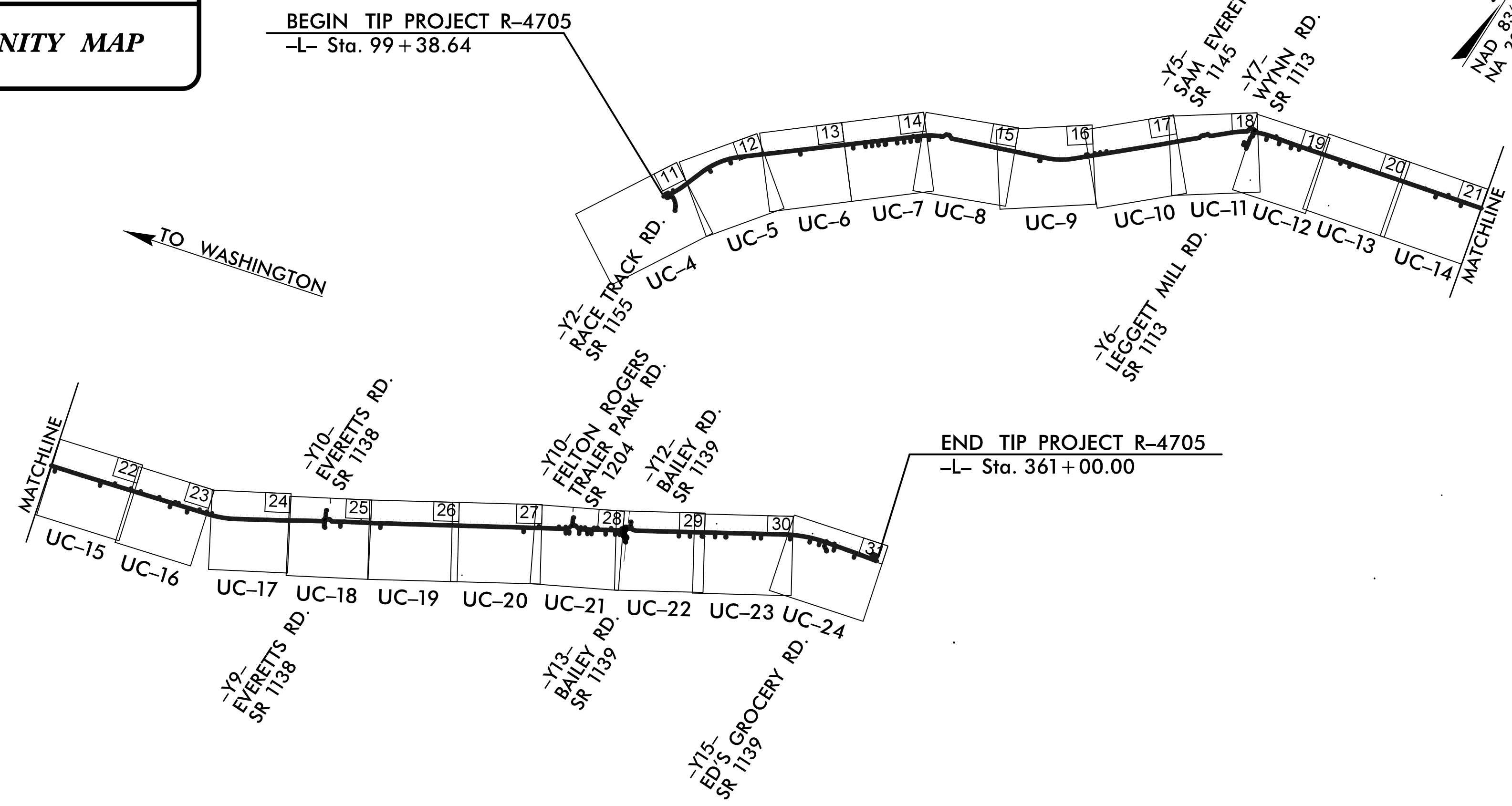
LOCATION: US 17 FROM NORTH OF NC 171 TO EXISTING MULTI-LANES SOUTH OF WILLIAMSTON
TYPE OF WORK: WATER MAIN RELOCATION

T.I.P. NO.	SHEET NO.
R-4705	UC-1

REVISED: 3-18-2022

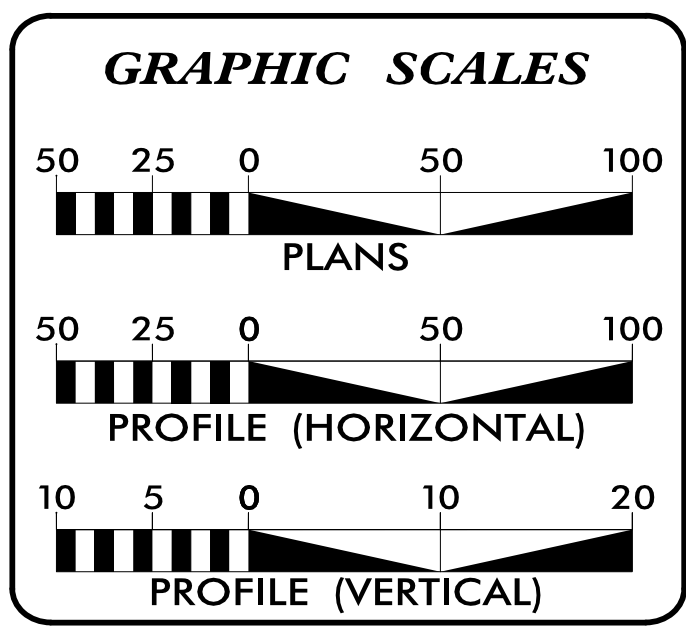


FINAL PLANS
RELEASED FOR CONSTRUCTION



TO WILLIAMSTON

DOCUMENT NOT CONSIDERED FINAL
UNTIL ALL SIGNATURES ARE COMPLETED



INDEX OF SHEETS

SHEET NO.:	DESCRIPTION:
UC-1	TITLE SHEET
UC-2	UTILITY SYMBOLOGY
UC-3	NOTES
UC-3A & UC-3B	DETAILS
UC-4 THRU UC-24	UTILITY CONSTRUCTION SHEETS
UC-25 THRU UC-37	PROFILE SHEETS

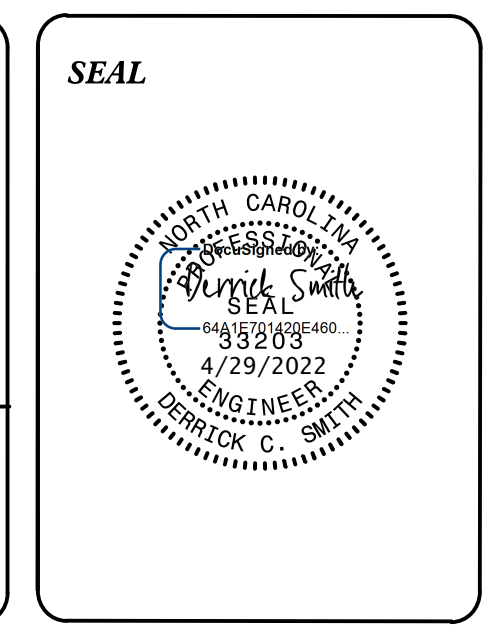
WATER AND SEWER OWNERS ON PROJECT

(A) MARTIN COUNTY WATER

PREPARED IN THE OFFICE OF

THE WOOTEN COMPANY
301 West 14th Street, Greenville, NC 27834
252.757.1096 Fax 252.757.3221
License Number: F-0115

DERRICK SMITH, P.E. PROJECT ENGINEER
XXXX CONSULTANT CONTACT #2
XXXX CONSULTANT CONTACT #3



DIVISION OF HIGHWAYS
DIVISION 01
113 AIRPORT DRIVE
SUITE 100
EDENTON, NC 27932

JOHN S. ABEL, JR. DIVISION CONTACT #1
DIVISION CONTACT #2
DIVISION CONTACT #3
DIVISION CONTACT #4

\$\$\$\$\$ SYSTEM TIME\$\$\$\$\$
\$\$\$\$\$ DGN\$\$\$\$\$
\$\$\$\$\$ USERNAME\$\$\$\$\$

STATE OF NORTH CAROLINA DIVISION OF HIGHWAYS

UTILITIES PLAN SHEET SYMBOLS

PROPOSED WATER SYMBOLS

Water Line (Sized as Shown)	
11 1/4 Degree Bend	
22 1/2 Degree Bend	
45 Degree Bend	
90 Degree Bend	
Plug	
Tee	
Cross	
Reducer	
Gate Valve	
Butterfly Valve	
Tapping Valve	
Line Stop	
Line Stop with Bypass	
Blow Off	
Fire Hydrant	
Relocate Fire Hydrant	
Remove Fire Hydrant	REM FH
Water Meter	
Relocate Water Meter	
Remove Water Meter	REM WM
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 MISCELLANEOUS UTILITIES SYMBOLS

Power Pole	
Telephone Pole	
Joint Use Pole	
Telephone Pedestal	
Utility Line by Others (Type as Shown)	
Trenchless Installation	
Encasement by Open Cut	
Encasement	

Thrust Block	
Air Release Valve	
Utility Vault	
Concrete Pier	
Steel Pier	
Plan Note	
Pay Item Note	

NOTE
PAY ITEM

EXISTING UTILITIES SYMBOLS

Power Pole		*Underground Power Line	
Telephone Pole		*Underground Telephone Cable	
Joint Use Pole		*Underground Telephone Conduit	
Utility Pole		*Underground Fiber Optics Telephone Cable	
Utility Pole with Base		*Underground TV Cable	
H-Frame Pole		*Underground Fiber Optics TV Cable	
Power Transmission Line Tower		*Underground Gas Pipeline	
Water Manhole		Aboveground Gas Pipeline	
Power Manhole		*Underground Water Line	
Telephone Manhole		Aboveground Water Line	
Sanitary Sewer Manhole		*Underground Gravity Sanitary Sewer Line	
Hand Hole for Cable		Aboveground Gravity Sanitary Sewer Line	
Power Transformer		*Underground SS Forced Main Line	
Telephone Pedestal		Underground Unknown Utility Line	
CATV Pedestal		SUE Test Hole	
Gas Valve		Water Meter	
Gas Meter		Water Valve	
Located Miscellaneous Utility Object		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)
 Designated Utility Line (Type as Shown)

5/14/99
REV: 2/1/2012


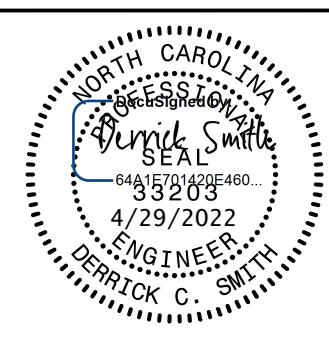
GENERAL NOTES:

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 2018 AND MARTIN COUNTY STANDARD SPECIFICATIONS AND DETAILS. OTHER ENTITIES' SPECS CANNOT BE REFERENCED. ANY REQUIREMENTS FROM THEM MUST BE INCLUDED.
2. THE EXISTING UTILITIES BELONG TO MARTIN COUNTY.
3. ALL WATER LINES TO BE INSTALLED WITHIN COMPLIANCE OF THE RULES AND REGULATIONS OF THE NORTH CAROLINA DEPARTMENT OF ENVIRONMENTAL QUALITY, DIVISION OF WATER RESOURCES, PUBLIC WATER SUPPLY SECTION. ALL SEWER LINES TO BE INSTALLED WITHIN COMPLIANCE OF THE RULES AND REGULATIONS OF THE NORTH CAROLINA DEPARTMENT OF ENVIRONMENT QUALITY, DIVISION OF WATER RESOURCES, WATER QUALITY SECTION. 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 OPPORTUNITY 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. PROPOSED WATER LINE SHALL BE PVC C900 DR-18, CLASS 350 (RESTRAINED JOINT DUCTILE IRON), AND FUSIBLE PVC C900 FOR HORIZONTAL DIRECTION DRILL (HDD) AS INDICATED ON THE CONSTRUCT ON DRAWINGS.
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 DESIGNED AND SEALED BY A LICENSED NORTH CAROLINA PROFESSIONAL ENGINEER. NO DAMAGE IS ALLOWED TO RIVER, WETLANDS, OR BUFFER ZONES.
3. TRACER WIRE AND WARNING TAPES SHALL BE INSTALLED WITH ALL PLASTIC PIPE UTILITIES. WIRE, TAPE AND PIPE SHALL BE COLOR CODED ACCORDING TO UTILITY (BLUE FOR WATER) AND SHALL BE IN ACCORDANCE WITH NCDOT SPECIFICATIONS.
4. EXISTING CONDITIONS SURVEY AND PROPOSED HIGHWAY PLANS PROVIDED TO THE WOOTEN COMPANY BY NCDOT.
5. FUSED PVC LENGTHS THAT HAVE BEEN INSTALLED IN THE TRENCH SHALL NOT BE BENT OR JOCKEYED INTO POSITION WITH HEAVY EQUIPMENT IN ORDER TO CONNECT TO FITTINGS. ALL ALIGNMENT CORRECTIONS TO TAKE PLACE IN THE DIP FITTINGS.
6. ALL WATER SERVICES SHALL BE 1" SCH 40 PVC.

PREPARED IN THE OFFICE OF:  THE WOOTEN COMPANY <small>301 West 14th Street, Greenville, NC 27834 252.732.1000 Fax: 252.732.1021 License Number: F-4025</small>	PROJECT REFERENCE NO.	SHEET NO.
	R-4705	UC-3
DESIGNED BY: DCS		
DRAWN BY: TK8TH		
CHECKED BY: DCS		
APPROVED BY: DCS		
REVISED: 3-18-2022	NORTH CAROLINA DEPARTMENT OF TRANSPORTATION UTILITIES ENGINEERING SEC. PHONE: (919) 707-6690 FAX: (919) 250-4151	
WATER LINE CONSTRUCTION SHOWN ON THIS SHEET		

FINAL PLANS
 RELEASED FOR CONSTRUCTION

UTILITY CONSTRUCTION

Document Not Considered Final
 Unless All Signatures Completed
 UTILITY CONSTRUCTION
 PLANS ONLY

5/14/99

PROJECT WATER DETAILS

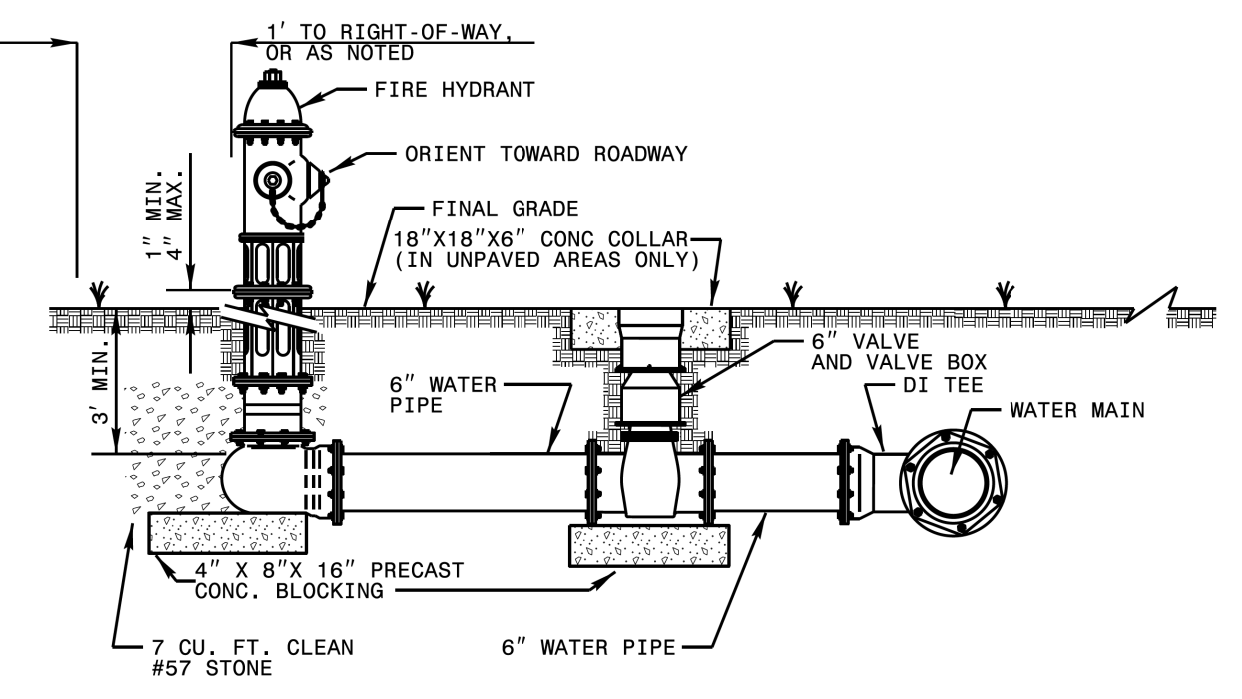
FINAL PLANS
RELEASED FOR CONSTRUCTION

PREPARED IN THE OFFICE OF:



PROJECT REFERENCE NO. R-4705	SHEET NO. UC-3A
DESIGNED BY: DCS	
DRAWN BY: BTH	
CHECKED BY: DCS	
APPROVED BY: DCS	
REVISED: 3-18-2022	NORTH CAROLINA DEPARTMENT OF TRANSPORTATION UTILITIES ENGINEERING SEC. PHONE: (919) 707-6690 FAX: (919) 250-4151
WATER LINE CONSTRUCTION SHOWN ON THIS SHEET	
Document Not Considered Final Unless All Signatures Completed UTILITY CONSTRUCTION PLANS ONLY	

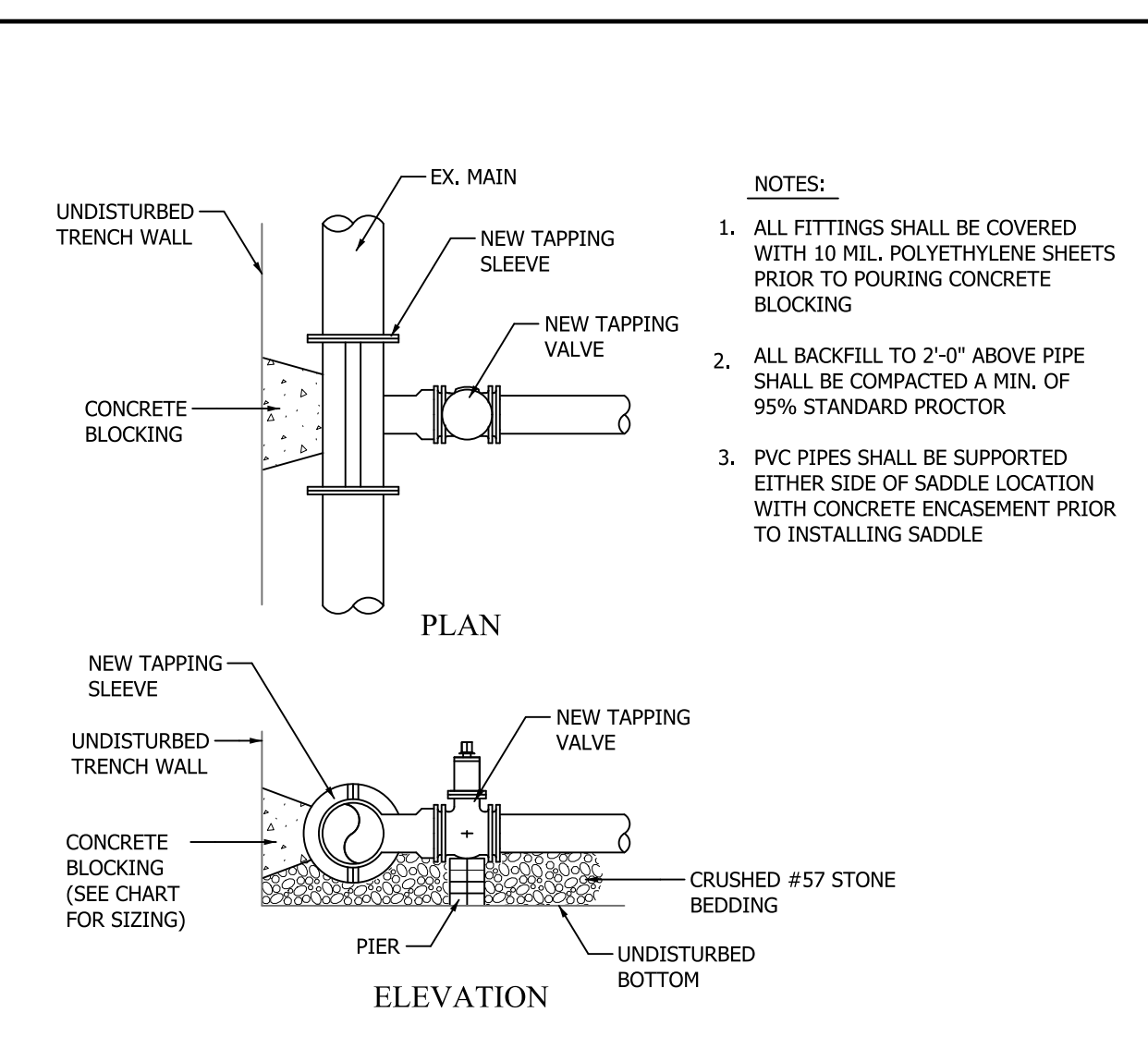
- NOTES:
- THIS DETAIL SHOWS THE TYPICAL FINAL FIRE HYDRANT CONFIGURATION AFTER INSTALLATION OF A PROPOSED FIRE HYDRANT, RECONNECTION OF AN EXISTING FIRE HYDRANT, OR RELOCATION OF A FIRE HYDRANT.
 - KEEP DRAIN PORTS FREE FROM OBSTRUCTION.
 - RESTRAIN ALL PIPE JOINTS AND FITTINGS. ACCEPTABLE TYPES OF RESTRAINT INCLUDE RESTRAINING GLANDS; RESTRAINER, PUSH-ON JOINTS; AND 3/4" BITUMINOUS COATED, ALL-THREAD RESTRAINING RODS. THRUST BLOCKS ARE NOT AN ACCEPTABLE TYPE OF RESTRAINT.
 - FOR RELOCATED OR RECONNECTED FIRE HYDRANTS, VERIFY THE VALVE IS RESTRAINED TO THE MAIN. PROVIDE APPROPRIATE RESTRAINT.
 - HYDRANT LOCATION APPLIES TO PROPOSED AND RELOCATED FIRE HYDRANTS.
 - LOCATE FIRE HYDRANT WITH 3' HORIZONTAL CLEARANCE FROM ABOVE GROUND OBJECTS.
 - PROVIDE A MINIMUM OF 3" COVER OVER ALL SECTIONS OF HORIZONTAL PIPE. USE FITTINGS AS NECESSARY.
 - TAPPING SLEEVES MAY BE USED ON EXISTING MAINS IN LIEU OF DI TEES.
 - LOCATE FIRE HYDRANT OUTSIDE OF THE VEHICLE RECOVERY AREA, ADJACENT TO THE R/W LINE, OR IN A PROTECTED AREA.



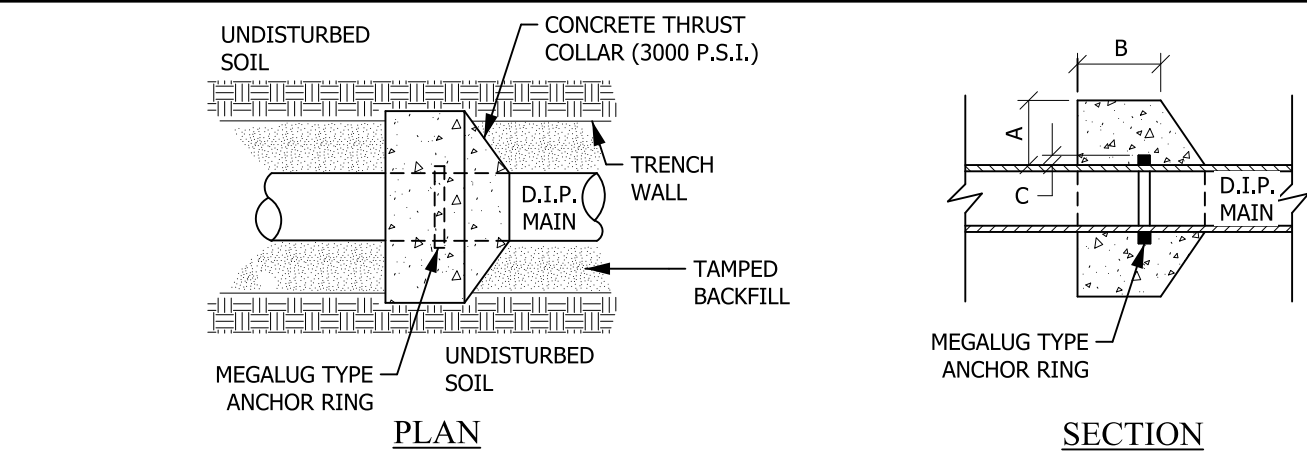
STATE OF NORTH CAROLINA
DEPT. OF TRANSPORTATION
DIVISION OF HIGHWAYS
RALEIGH, N.C.

ROADWAY STANDARD DRAWING FOR
FIRE HYDRANT

SHEET 1 OF 1
1515.02



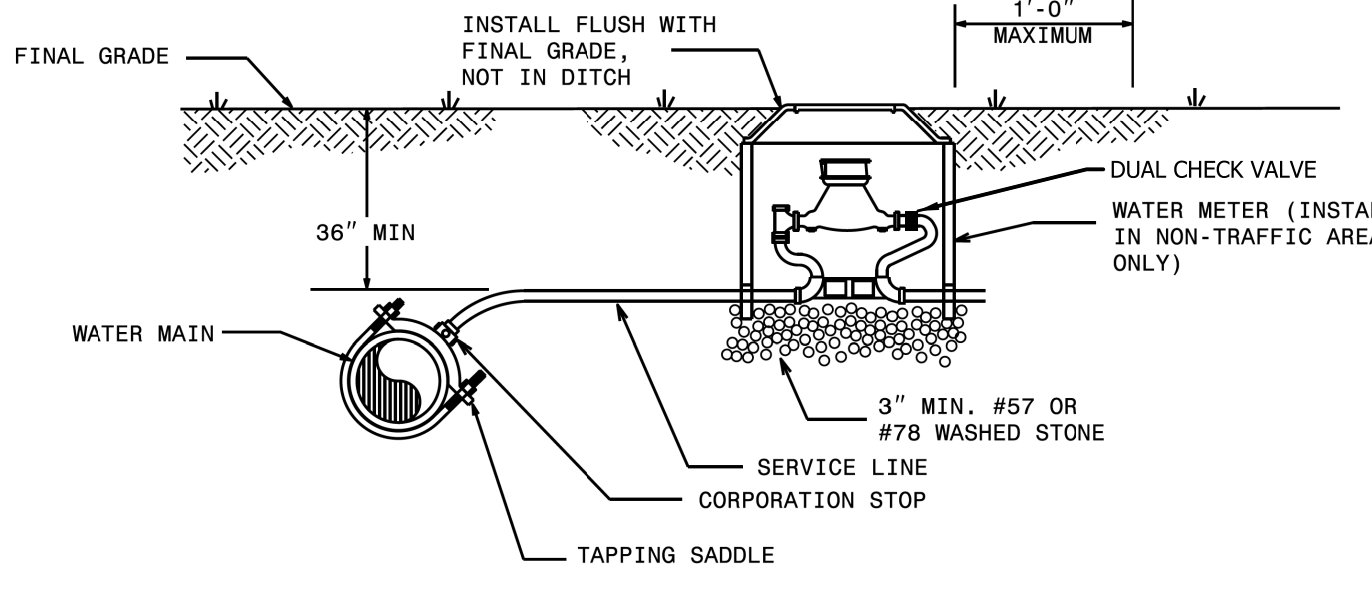
- NOTES:
- ALL FITTINGS SHALL BE COVERED WITH 10 MIL. POLYETHYLENE SHEETS PRIOR TO POURING CONCRETE BLOCKING
 - ALL BACKFILL TO 2'-0" ABOVE PIPE SHALL BE COMPACTED A MIN. OF 95% STANDARD PROCTOR
 - PVC PIPES SHALL BE SUPPORTED EITHER SIDE OF SADDLE LOCATION WITH CONCRETE ENCASUREMENT PRIOR TO INSTALLING SADDLE



PIPE DIA.	CONCRETE THRUST COLLAR			ANCHOR RING	RINGS REQUIRED
	A	B	C		
6"-12"	1'-0"	1'-0"	2"	ONE	
16"	1'-4"	1'-0"	2"	ONE	
20"	1'-4"	1'-0"	3"	TWO	
24"	1'-4"	1'-0"	3"	TWO	
30"	1'-4"	1'-2"	4"	TWO	
36"	1'-4"	1'-4"	4"	TWO	

- NOTES:
- 6" TO 16" MAINS=(12) No.7 BARS
 - 20" TO 36" MAINS=(12) No.8 BARS
 - BARS PLACED AS SHOWN

TAPPING SLEEVE AND VALVE
NOT TO SCALE

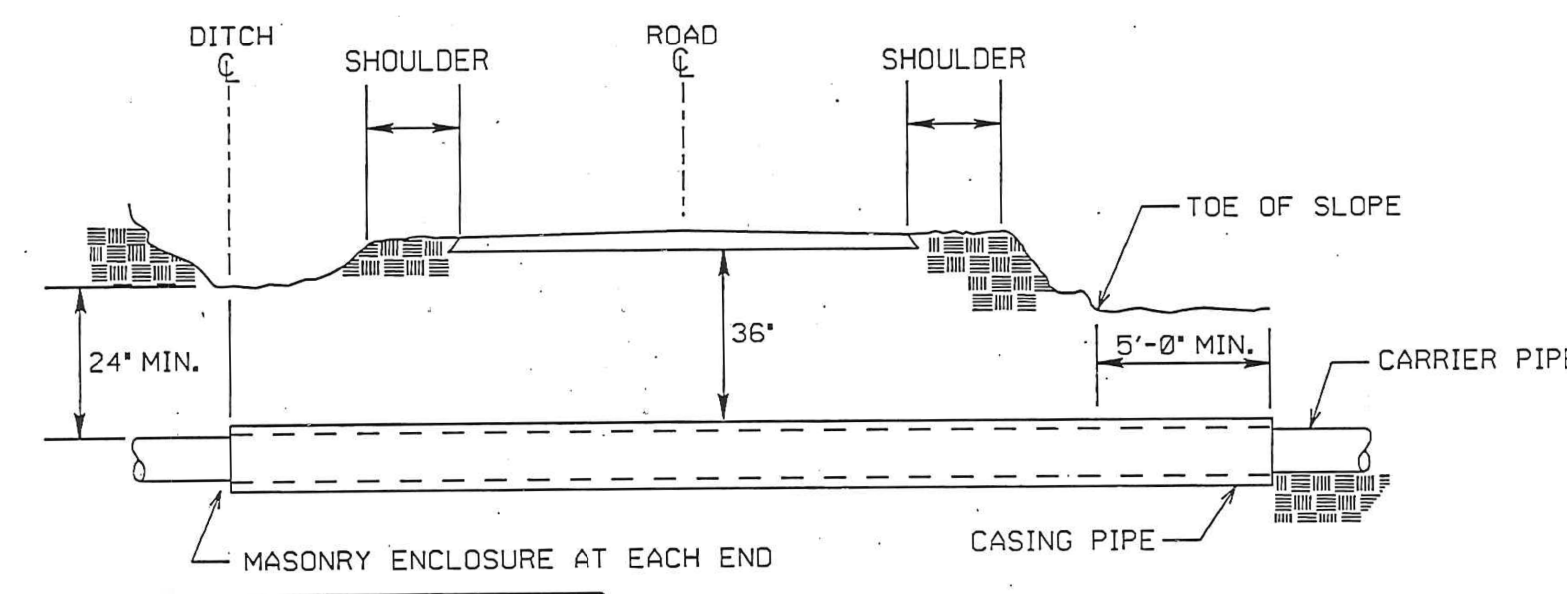


- NOTES:
- THIS DETAIL SHOWS THE TYPICAL FINAL WATER METER CONFIGURATION AFTER INSTALLATION OF A PROPOSED WATER METER, RECONNECTION OF AN EXISTING WATER METER, OR RELOCATION OF A WATER METER.
 - DUAL CHECK VALVES TO BE WATTS LF710-U2 OR LF710-U2.

STATE OF NORTH CAROLINA
DEPT. OF TRANSPORTATION
DIVISION OF HIGHWAYS
RALEIGH, N.C.

ROADWAY STANDARD DRAWING FOR
WATER METER

SHEET 1 OF 1
1515.01

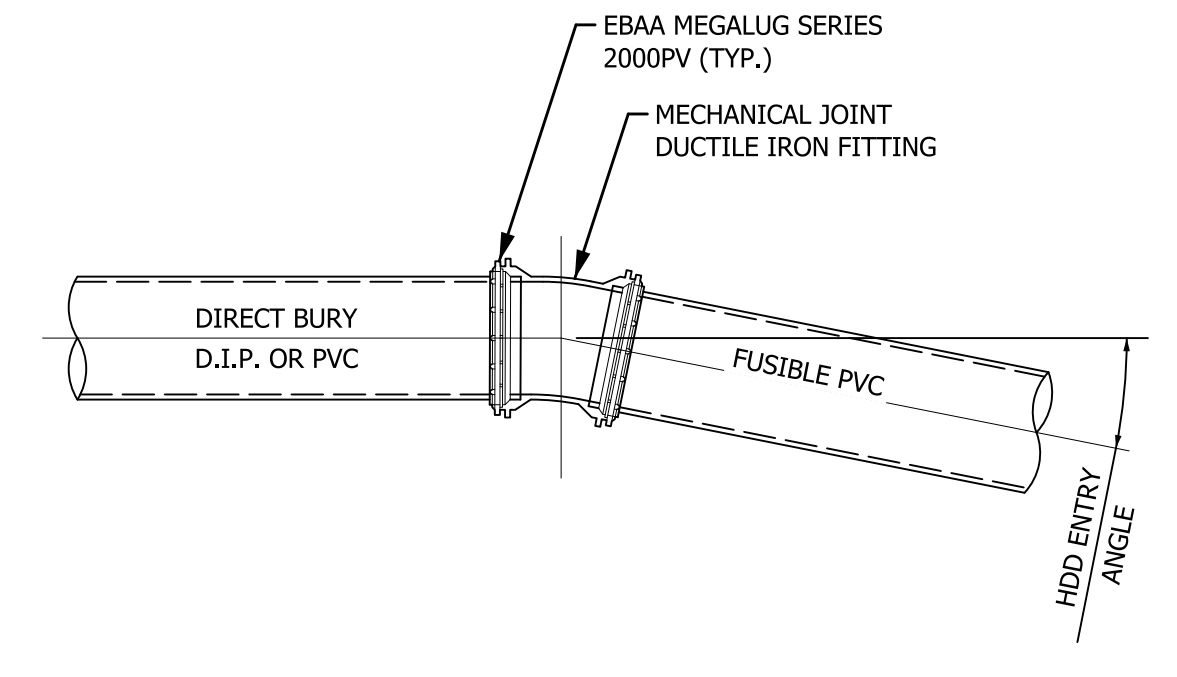


PIPE SIZE (O.D.)	WALL THICKNESS
4" - 12 3/4"	0.188"
16"	0.250"
18"	0.250"
20"	0.250"
24"	0.250"
30"	0.312"
36"	0.375"
48"	0.500"

ENCASEMENTS SHALL EXTEND FROM DITCH LINE TO DITCH LINE IN CUT SECTIONS, FIVE (5) FEET BEYOND THE TOE OF SLOPES IN FILL SECTIONS, AND TEN (10) FEET BEYOND EDGE OF PAVEMENT IN SECTIONS WITH NO DITCH OR FILL AREA.

WELDING 1072-18 Qualifications of Personnel:
Welders must be certified to meet state requirements as noted within the NCDOT Standards Specifications for Roads and Structures 2012. Upon request, evidence of such qualifications shall be furnished to the NCDOT Department Engineer or his representative.

DETAIL FOR BORE UNDER STATE ROAD
NCDOT APPROVED NOV.2000 Not To Scale



CONNECTION DETAIL - DUCTILE IRON PIPE TO FUSIBLE PVC HDD
NOT TO SCALE

UTILITY CONSTRUCTION

STATE OF NORTH CAROLINA
DEPT. OF TRANSPORTATION
DIVISION OF HIGHWAYS
RALEIGH, N.C.

ENGLISH STANDARD DRAWING FOR
METHOD OF PIPE INSTALLATION
FLEXIBLE PIPE

SHEET 1 OF 3
300.01

GENERAL NOTES:
I.O.D. = THE MAXIMUM HORIZONTAL INSIDE DIAMETER DIMENSION.
O.D. = THE MAXIMUM HORIZONTAL OUTSIDE DIAMETER DIMENSION.
H = THE FILL HEIGHT MEASURED VERTICALLY AT ANY POINT ALONG THE PIPE FROM THE TOP OF THE PIPE TO THE TOP OF THE ENCASUREMENT AT THAT POINT.

DO NOT OPERATE HEAVY EQUIPMENT OVER ANY PIPE CULVERT UNTIL THE PIPE CULVERT HAS BEEN PROPERLY BRACED AND COVERED WITH AT LEAST 3 FEET OF APPROVED MATERIAL.

SELECT BACKFILL MATERIAL CLASS III OR CLASS II, TYPE 1 ABOVE AND BELOW SPINDLINE.

APPROVED SUITABLE LOCAL MATERIAL.

UNDISTURBED EARTH MATERIAL.

SELECT MATERIAL CLASS IV OR VE FOR FOUNDATION CONDITIONING, ENCAPSULATE WITH ENGINEERING FABRIC AS DIRECTED BY THE ENGINEER.

SHEET 2 OF 3
300.01

STATE OF NORTH CAROLINA
DEPT. OF TRANSPORTATION
DIVISION OF HIGHWAYS
RALEIGH, N.C.

ENGLISH STANDARD DRAWING FOR
METHOD OF PIPE INSTALLATION
RIGID PIPE

SHEET 2 OF 3
300.01

GENERAL NOTES:
I.O.D. = THE MAXIMUM HORIZONTAL INSIDE DIAMETER DIMENSION.
O.D. = THE MAXIMUM HORIZONTAL OUTSIDE DIAMETER DIMENSION.
H = THE FILL HEIGHT MEASURED VERTICALLY AT ANY POINT ALONG THE PIPE FROM THE TOP OF THE PIPE TO THE TOP OF THE ENCASUREMENT AT THAT POINT.

DO NOT OPERATE HEAVY EQUIPMENT OVER ANY PIPE CULVERT UNTIL THE PIPE CULVERT HAS BEEN PROPERLY BRACED AND COVERED WITH AT LEAST 3 FEET OF APPROVED MATERIAL.

SELECT BACKFILL MATERIAL CLASS III OR CLASS II, TYPE 1, BELOW SPINDLINE.

APPROVED SUITABLE LOCAL MATERIAL ABOVE SPINDLINE.

UNDISTURBED EARTH MATERIAL.

SELECT MATERIAL CLASS IV OR VE FOR FOUNDATION CONDITIONING, ENCAPSULATE WITH ENGINEERING FABRIC AS DIRECTED BY THE ENGINEER.

SHEET 3 OF 3
300.01

STATE OF NORTH CAROLINA
DEPT. OF TRANSPORTATION
DIVISION OF HIGHWAYS
RALEIGH, N.C.

ENGLISH STANDARD DRAWING FOR
METHOD OF PIPE INSTALLATION
FILL HEIGHT TABLES

SHEET 3 OF 3
300.01

Round Corrugated Steel Pipe 2.23 x 19 corrugation					Round Corrugated Aluminum Pipe 2.23 x 19 corrugation				
Diameter (Inches)	Minimum cover (Inches)	Maximum Height of Cover (feet)			Diameter (Inches)	Minimum cover (Inches)	Maximum Height of Cover (feet)		
		(G)	(L)	(A)			(G)	(L)	(A)
12	12	204	256	10	12	12	123	155	218
15	12	162	204	12	15	12	98	123	174
18	12	135	169	239	18	12	81	102	144
21	12	145	204	10	21	12	69	97	123
24	12	100	126	178	24	12	60	76	108
27	12	79	100	142	27	12	60	85	111
30	12	65	83	117	30	12	50	71	92
36	12	55	70	100	36	12	42	58	74
42	12	48	61	87	42	12	48	60	78
48	12	48	61	87	48	12	42	52	68
60	12	42	53	69	60	12	36	48	58
66	12	38	48	61	66	12	36	48	58
72	12	38	48	61	72	12	36	48	58
78	12	38	48	61	78	12	36	48	58
84	12	38	48	61	84	12	36	48	58

FOR DIFFERENT CORRUGATIONS AND ARCH PIPES REFER TO ROADWAY DESIGN MANUAL OR MANUFACTURERS SPECIFICATION.

REFER TO THE FOLLOWING FOR PIPE SPECIFICATIONS:
CSP - AASHTO M36
CAAP - AASHTO M196
HCP - AASHTO M284
PVC - ASTM F949 or AASHTO M304

NOTES: FILL HEIGHTS SHOWN WERE CALCULATED USING AASHTO LRFD BRIDGE DESIGN SPECIFICATIONS

1' MINIMUM COVER FOR ALL SIDE DRAIN PIPE IN ACCORDANCE WITH THE STANDARD SPECIFICATIONS

RIGID PIPE


RCP - (Minimum fill) 1' for Class IV & Class V
2' for Class III & Class II
(Maximum fill) 10' - Class II pipe
20' - Class III pipe
30' - Class IV pipe
40' - Class V pipe
(For fills > 40' & < 80' use LRFD Direct Design Method)

FILL HEIGHTS SHOWN WERE CALCULATED USING AASHTO LRFD BRIDGE DESIGN SPECIFICATIONS

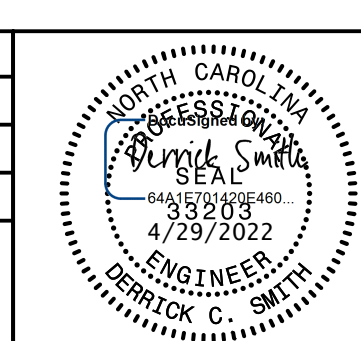
1' MINIMUM COVER FOR ALL SIDE DRAIN PIPE IN ACCORDANCE WITH THE STANDARD SPECIFICATIONS

5/14/99

PREPARED IN THE OFFICE OF:

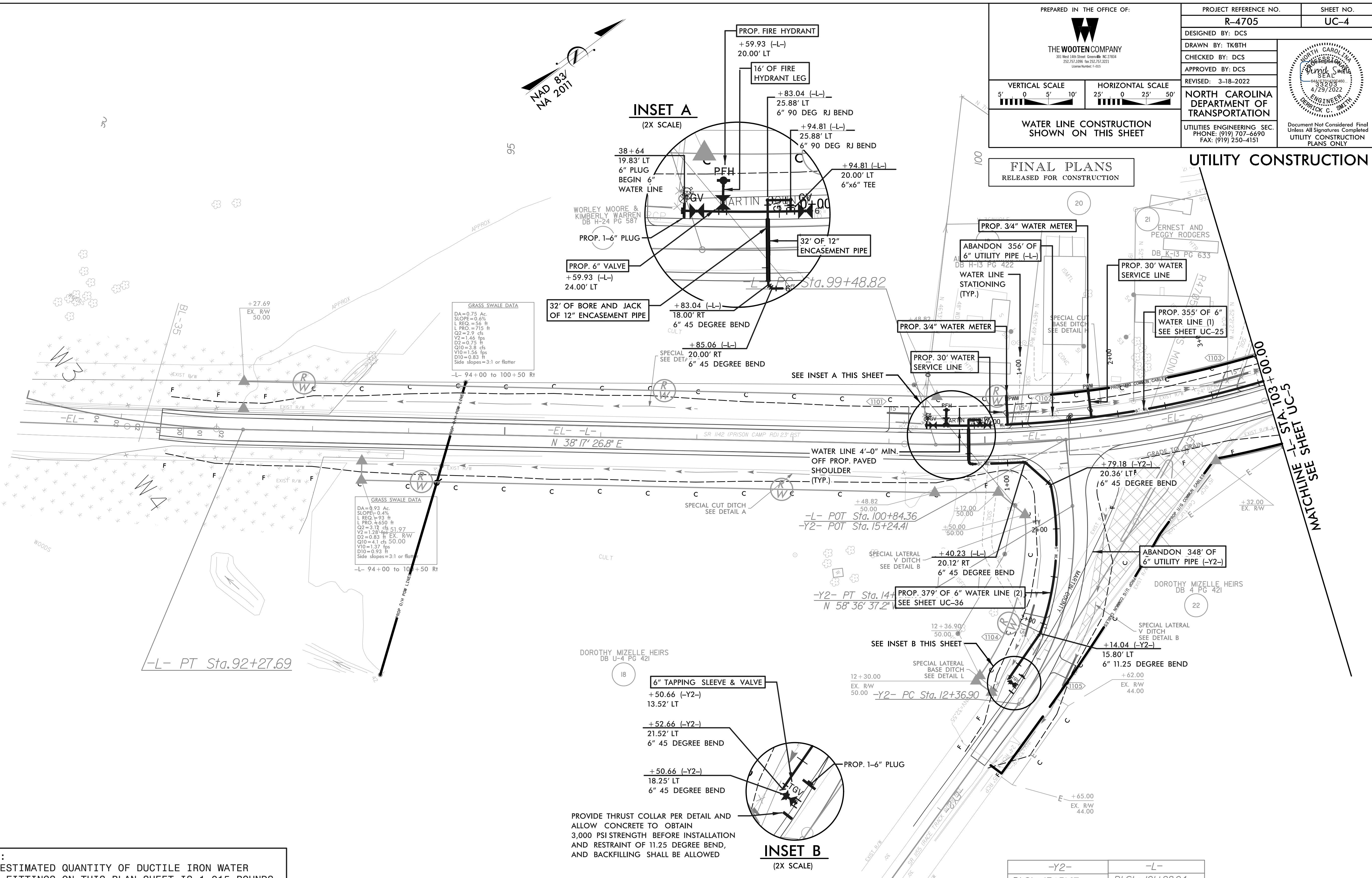


THE WOOTEN COMPANY
301 West 14th Street, Greenville, NC 27834
252.732.0196 Fax 252.732.0211
Licenses: 1-020

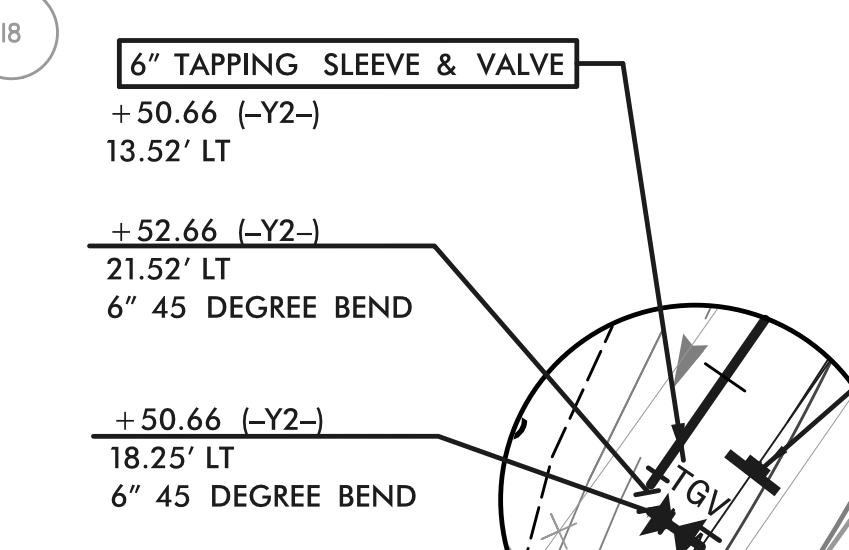
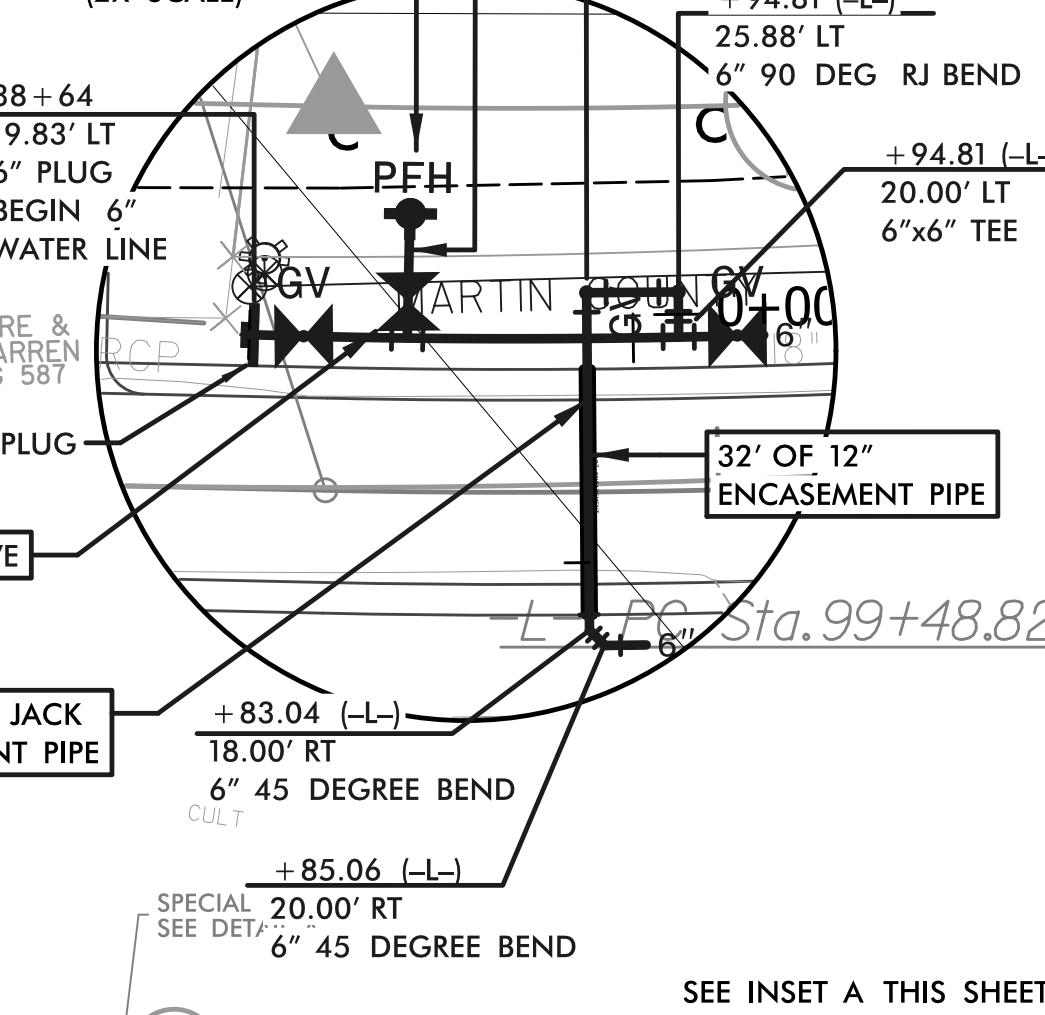
PROJECT REFERENCE NO.	R-4705	SHEET NO.	UC-4
DESIGNED BY:	DCS		
DRAWN BY:	TKBTH		
CHECKED BY:	DCS		
APPROVED BY:	DCS		
REVISED:	3-18-2022		
NORTH CAROLINA DEPARTMENT OF TRANSPORTATION			
UTILITIES ENGINEERING SEC.		Document Not Considered Final Unless All Signatures Completed UTILITY CONSTRUCTION PLANS ONLY	
PHONE: (919) 707-6690			
FAX: (919) 250-4151			

FINAL PLANS
RELEASED FOR CONSTRUCTION

UTILITY CONSTRUCTION



INSET A
(2X SCALE)




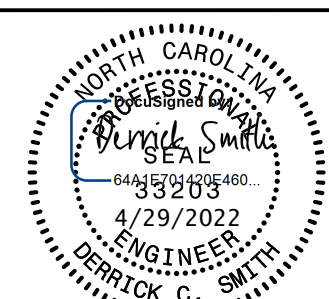
NOTE:
THE ESTIMATED QUANTITY OF DUCTILE IRON WATER PIPE FITTINGS ON THIS PLAN SHEET IS 1,015 POUNDS. THE ACTUAL QUANTITY AND TYPE OF FITTINGS WILL VARY BASED ON FIELD CONDITIONS.

NOTE 1:
CONTRACTOR TO LOCATE, VERIFY AND REPLACE ALL WATER METER SERVICES.

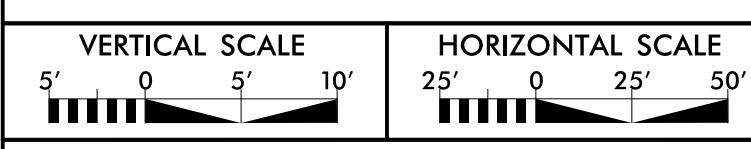
PROVIDE THRUST COLLAR PER DETAIL AND ALLOW CONCRETE TO OBTAIN 3,000 PSI STRENGTH BEFORE INSTALLATION AND RESTRAINT OF 11.25 DEGREE BEND, AND BACKFILLING SHALL BE ALLOWED

-Y2-	-L-
PI Sta 13+51.07	PI Sta 101+28.04
Δ = 4' 40" 23.4" (LT)	Δ = 18' 06" 12.1" (LT)
D = 19' 05" 54.9"	D = 5' 05" 34.6"
L = 218.20'	L = 355.46'
T = 114.18'	T = 179.22'
R = 300.00'	R = 1125.00'
DS = 60 MPH	DS = 55 MPH
SE = 0.08 FT/FT	SE = 0.08 FT/FT
RO = SEE PLANS	RO = SEE PLANS

5/14/99

PREPARED IN THE OFFICE OF:  THE WOOTEN COMPANY <small>301 West 14th Street, Greensboro, NC 27404 252.732.0106 Fax: 252.732.0211 License Number: F-005</small>	PROJECT REFERENCE NO. R-4705	SHEET NO. UC-5
	DESIGNED BY: DCS DRAWN BY: TK8TH CHECKED BY: DCS APPROVED BY: DCS REVISED: 3-18-2022	
NORTH CAROLINA DEPARTMENT OF TRANSPORTATION UTILITIES ENGINEERING SEC. PHONE: (919) 707-6690 FAX: (919) 250-4151		 <small>Document Not Considered Final Unless All Signatures Completed UTILITY CONSTRUCTION PLANS ONLY</small>

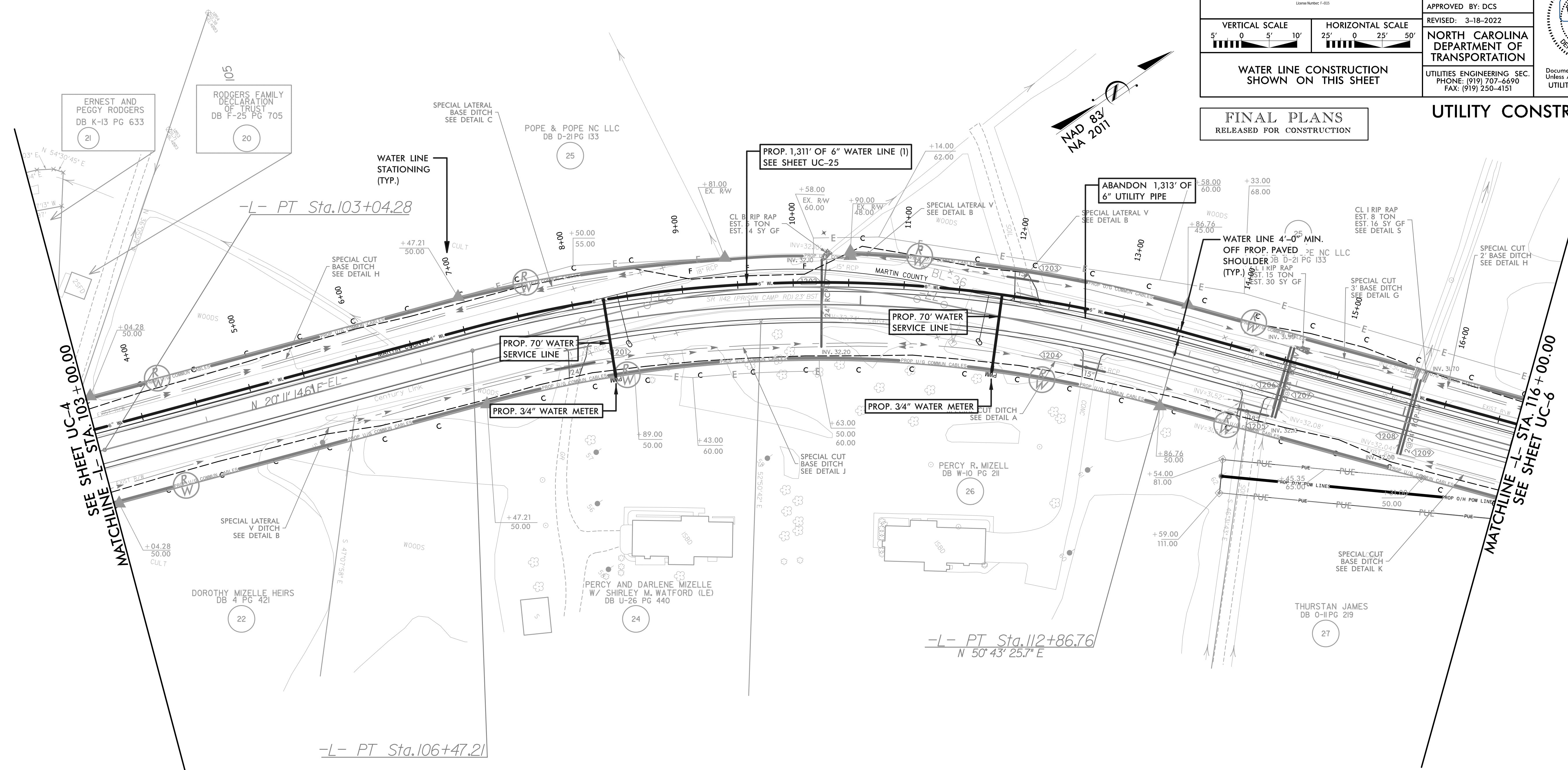
CONTRACTOR TO VERIFY, LOCATE AND REPLACE ALL METER SERVICES.



WATER LINE CONSTRUCTION SHOWN ON THIS SHEET

FINAL PLANS
RELEASED FOR CONSTRUCTION

UTILITY CONSTRUCTION



NOTE:
 THE ESTIMATED QUANTITY OF DUCTILE IRON WATER PIPE FITTINGS ON THIS PLAN SHEET IS 0 POUNDS. THE ACTUAL QUANTITY AND TYPE OF FITTINGS WILL VARY BASED ON FIELD CONDITIONS.

NOTE 1:
 CONTRACTOR TO LOCATE, VERIFY AND REPLACE ALL WATER METER SERVICES.

-L-
 PI Sta. 109+74.78
 $\Delta = 30^\circ 32' 11.1''$ (RT)
 $D = 4' 46' 28.7''$
 $L = 639.55'$
 $T = 327.57'$
 $R = 1,200.00'$
 $DS = 60$ MPH
 $SE = 0.08$ FT/FT
 $RO =$ SEE PLANS

5/14/99

5/14/99

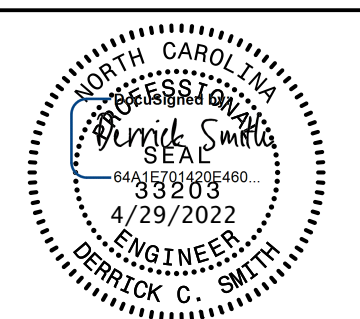
PREPARED IN THE OFFICE OF:



THE WOOTEN COMPANY
301 West 14th Street, Greensboro, NC 27404
252.732.0100 Fax: 252.732.0211
Licenses: 1-020

PROJECT REFERENCE NO. R-4705 SHEET NO. UC-6

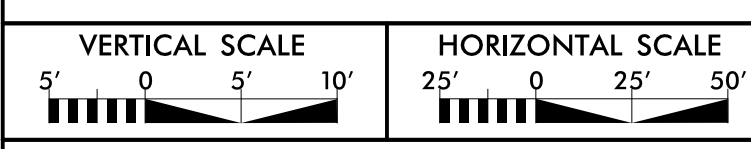
DESIGNED BY: DCS
DRAWN BY: TK8TH
CHECKED BY: DCS
APPROVED BY: DCS
REVISED: 3-18-2022



NORTH CAROLINA DEPARTMENT OF TRANSPORTATION

UTILITIES ENGINEERING SEC.
PHONE: (919) 707-6690
FAX: (919) 250-4151

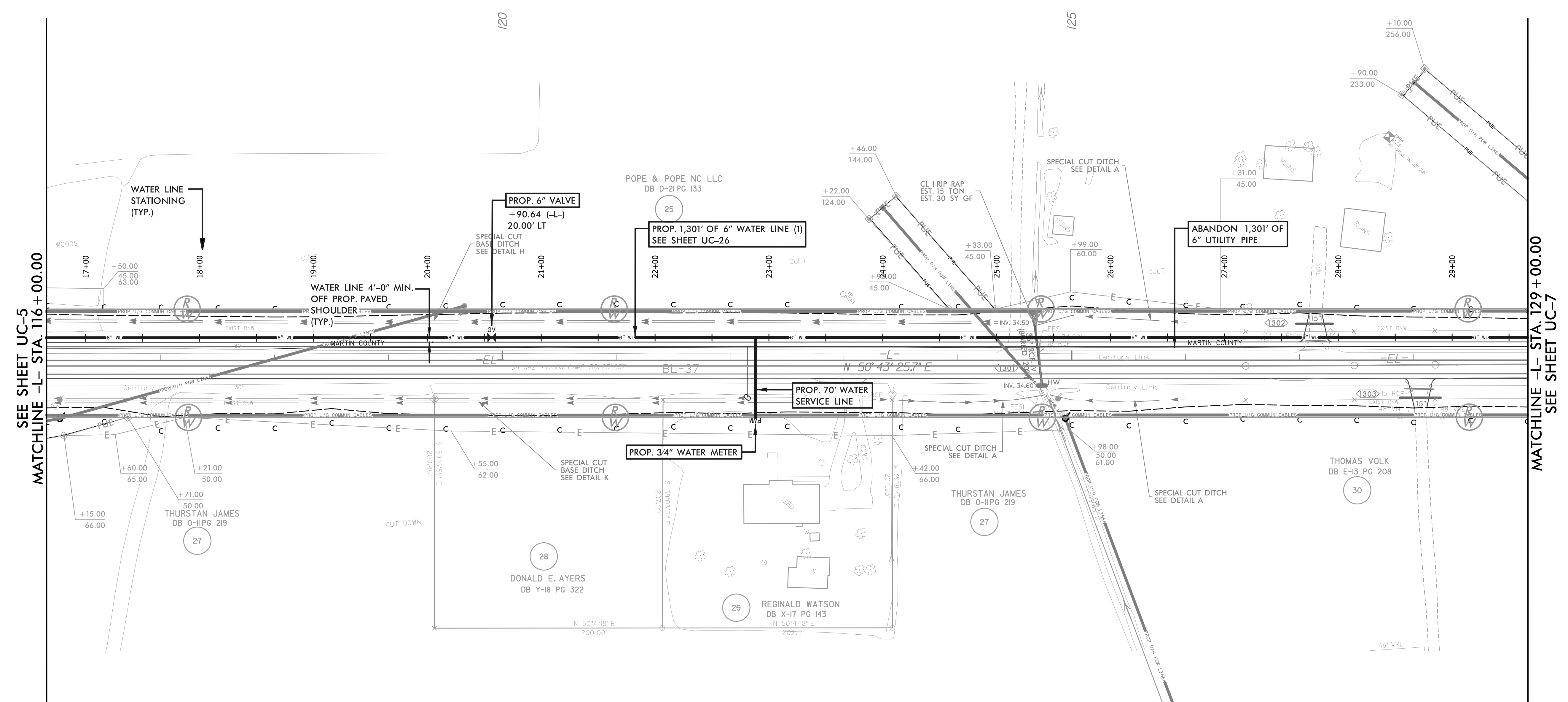
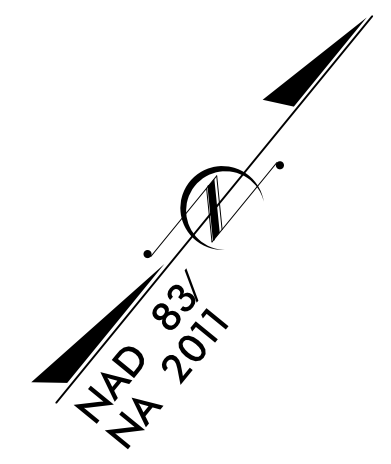
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WATER LINE CONSTRUCTION SHOWN ON THIS SHEET

FINAL PLANS
RELEASED FOR CONSTRUCTION

UTILITY CONSTRUCTION



NOTE:
THE ESTIMATED QUANTITY OF DUCTILE IRON WATER PIPE FITTINGS ON THIS PLAN SHEET IS 0 POUNDS. THE ACTUAL QUANTITY AND TYPE OF FITTINGS WILL VARY BASED ON FIELD CONDITIONS.

NOTE 1:
CONTRACTOR TO LOCATE, VERIFY AND REPLACE ALL WATER METER SERVICES.

5/14/99

5/14/99

PREPARED IN THE OFFICE OF:



THE WOOTEN COMPANY
301 West 14th Street, Greenville, NC 27834
252.732.0100 Fax: 252.732.0211
Licenses: 1-020

PROJECT REFERENCE NO.

R-4705

SHEET NO.

UC-7

DESIGNED BY: DCS

DRAWN BY: TK8TH

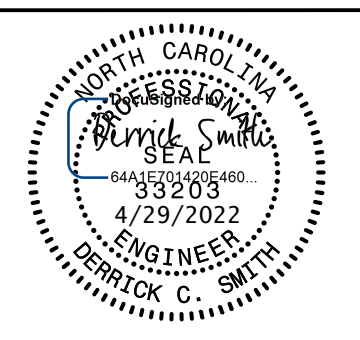
CHECKED BY: DCS

APPROVED BY: DCS

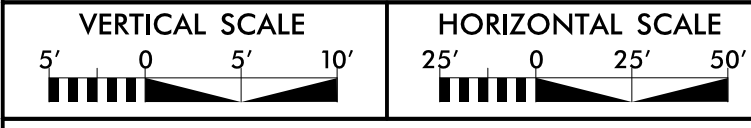
REVISED: 3-18-2022

NORTH CAROLINA
DEPARTMENT OF
TRANSPORTATION

UTILITIES ENGINEERING SEC.
PHONE: (919) 707-6690
FAX: (919) 250-4151



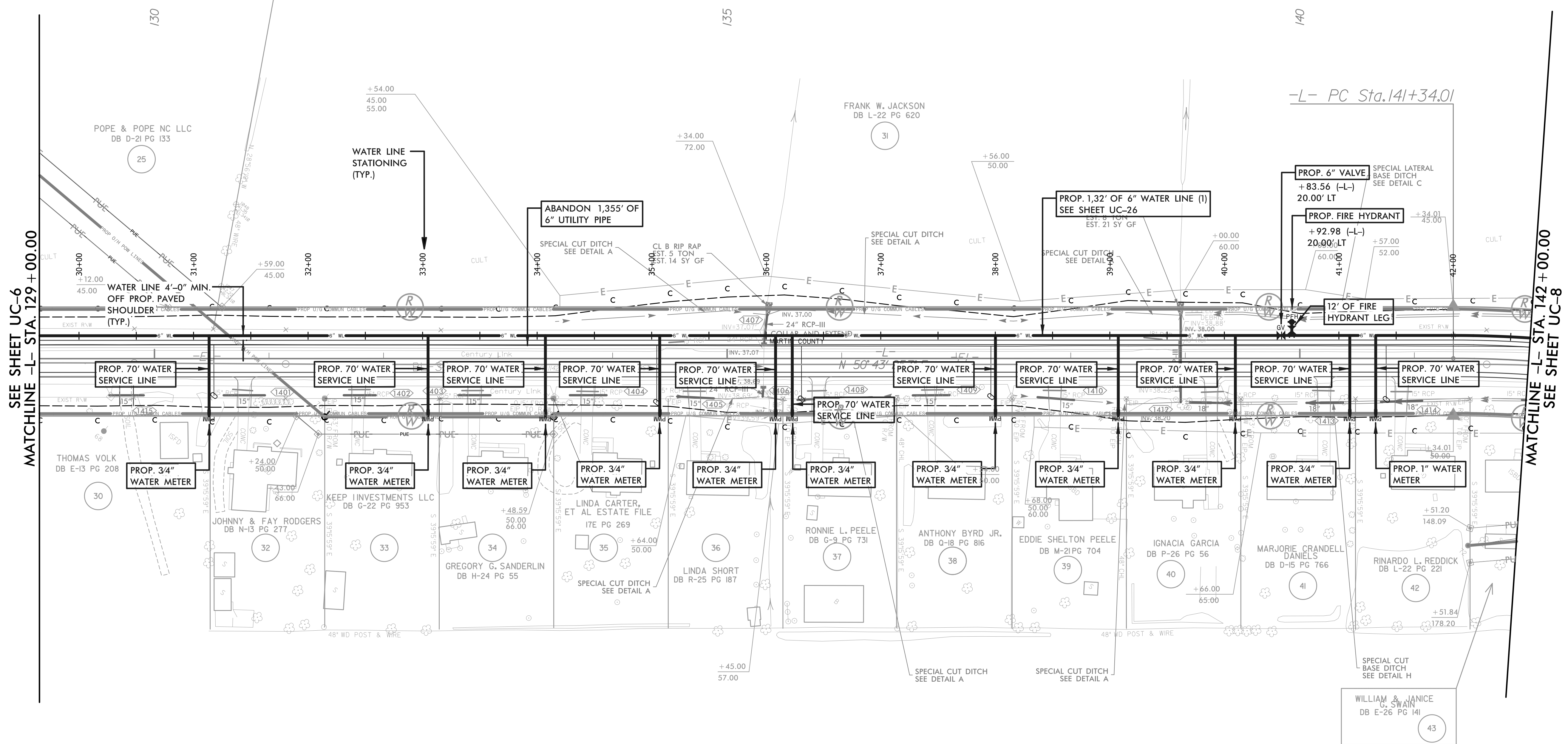
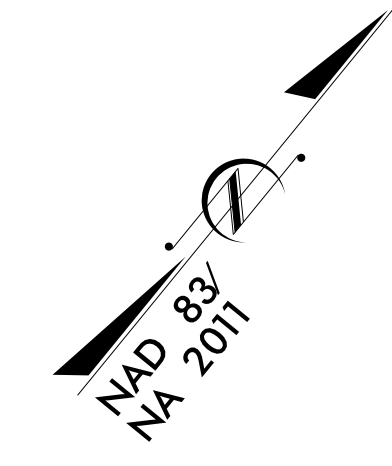
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WATER LINE CONSTRUCTION
SHOWN ON THIS SHEET

FINAL PLANS
RELEASED FOR CONSTRUCTION

UTILITY CONSTRUCTION



SEE SHEET UC-6
MATCHLINE -L- STA. 129 + 00.00


MATCHLINE -L- STA. 142 + 00.00
SEE SHEET UC-8

NOTE:
THE ESTIMATED QUANTITY OF DUCTILE IRON WATER PIPE FITTINGS ON THIS PLAN SHEET IS 125 POUNDS. THE ACTUAL QUANTITY AND TYPE OF FITTINGS WILL VARY BASED ON FIELD CONDITIONS.

NOTE 1:
CONTRACTOR TO LOCATE, VERIFY AND REPLACE ALL WATER METER SERVICES.

5/14/99

PREPARED IN THE OFFICE OF:

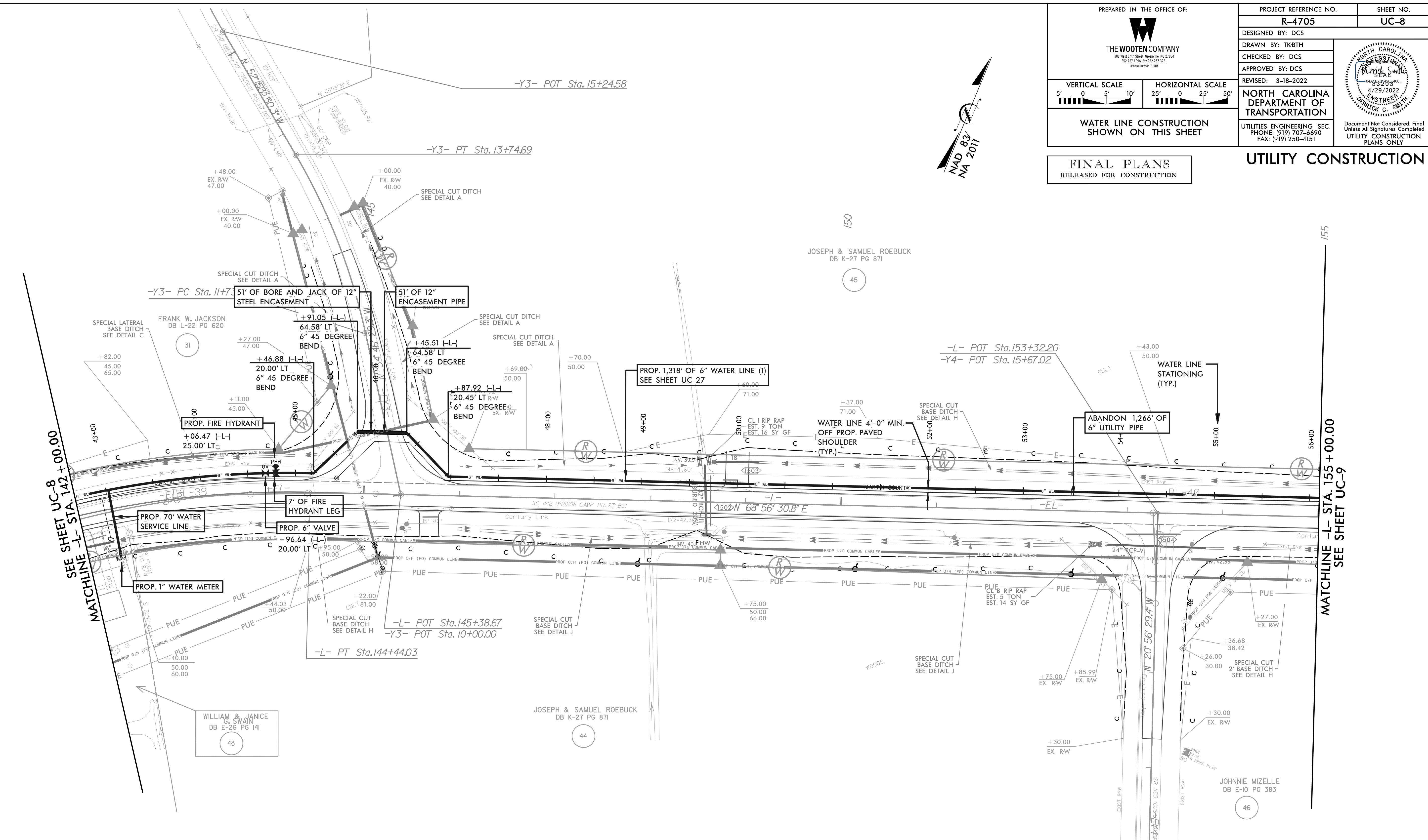
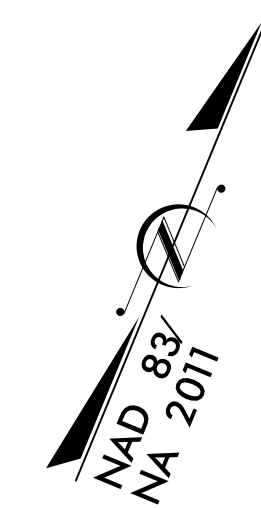


THE WOOTEN COMPANY
301 West 14th Street, Greensboro, NC 27404
919.707.0090 Fax: 919.707.0011
Licenses: 1-000

PROJECT REFERENCE NO.	SHEET NO.
R-4705	UC-8
DESIGNED BY: DCS	
DRAWN BY: TK8TH	
CHECKED BY: DCS	
APPROVED BY: DCS	
REVISED: 3-18-2022	
NORTH CAROLINA DEPARTMENT OF TRANSPORTATION	
UTILITIES ENGINEERING SEC.	Document Not Considered Final Unless All Signatures Completed UTILITY CONSTRUCTION PLANS ONLY
PHONE: (919) 707-6690	
FAX: (919) 250-4151	

FINAL PLANS
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UTILITY CONSTRUCTION



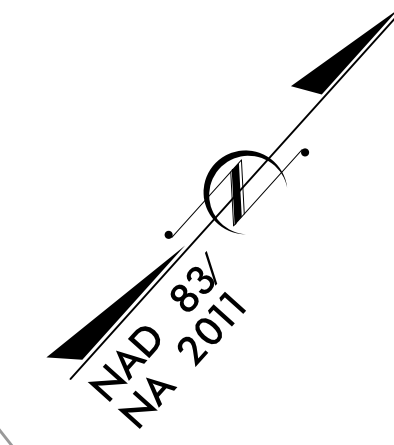
NOTE:
THE ESTIMATED QUANTITY OF DUCTILE IRON WATER PIPE FITTINGS ON THIS PLAN SHEET IS 425 POUNDS. THE ACTUAL QUANTITY AND TYPE OF FITTINGS WILL VARY BASED ON FIELD CONDITIONS.

NOTE 1:
CONTRACTOR TO LOCATE, VERIFY AND REPLACE ALL WATER METER SERVICES.

-Y3-	-L-
PI Sta 12+74.84	PI Sta 142+90.34
$\Delta = 18^{\circ} 07' 35.4''$ (LT)	$\Delta = 18^{\circ} 13' 05.1''$ (RT)
$D = 9^{\circ} 00' 00.0''$	$D = 5^{\circ} 52' 35.4''$
$L = 201.4'$	$L = 310.02'$
$T = 101.55'$	$T = 156.33'$
$R = 636.62'$	$R = 975.00'$
$DS = 60MPH$	$DS = 55 MPH$
$SE = 0.08 FT/FT$	$SE = 0.08 FT/FT$
$RO = SEE PLANS$	$RO = SEE PLANS$

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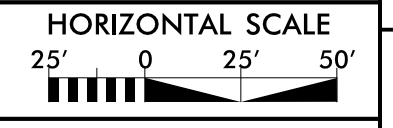
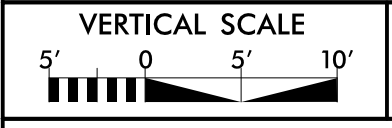
5/14/99



PREPARED IN THE OFFICE OF:



301 West 14th Street, Greensboro, NC 27404
252.732.0100 Fax: 252.732.0211
Licenses: 1-020

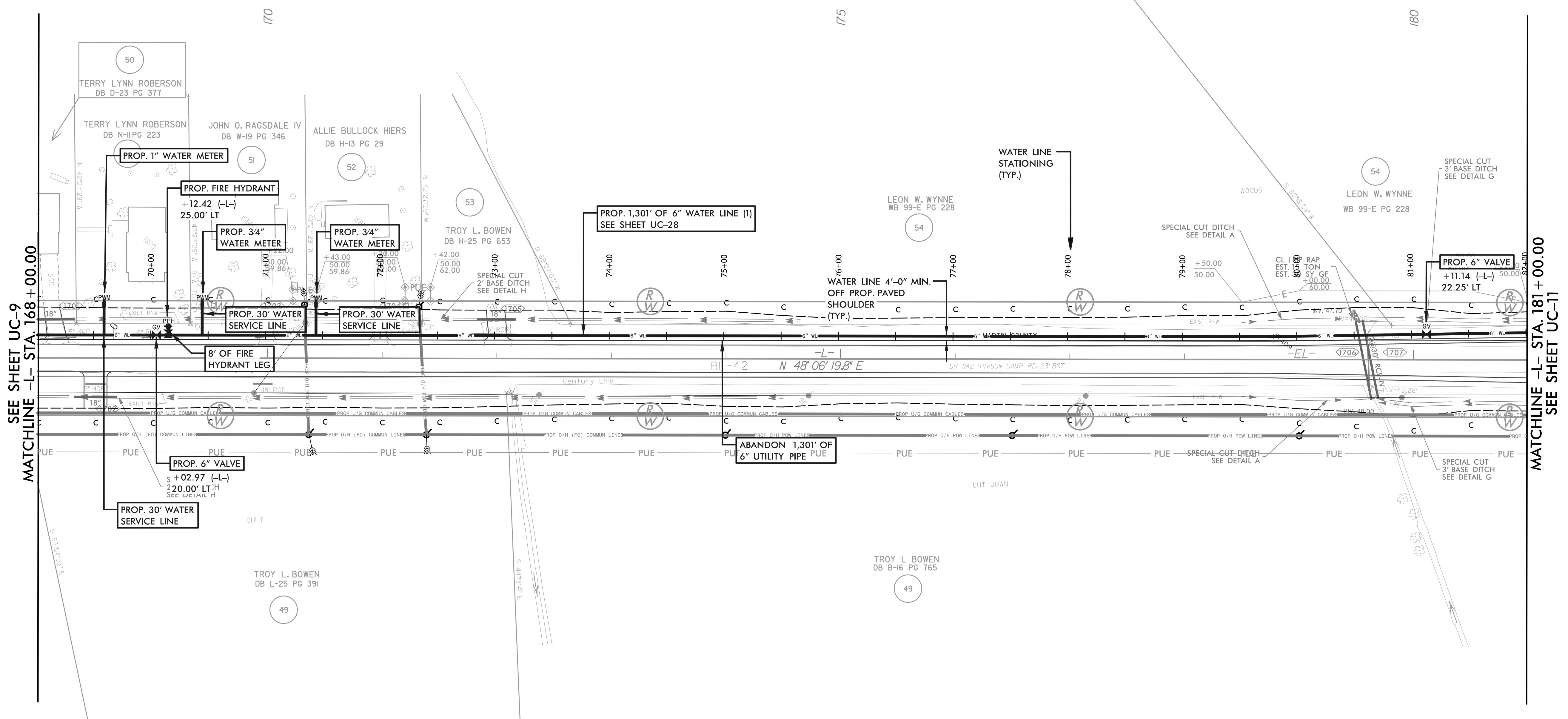


WATER LINE CONSTRUCTION
SHOWN ON THIS SHEET

PROJECT REFERENCE NO. R-4705	SHEET NO. UC-10
DESIGNED BY: DCS	
DRAWN BY: TK8TH	
CHECKED BY: DCS	
APPROVED BY: DCS	
REVISED: 3-18-2022	
NORTH CAROLINA DEPARTMENT OF TRANSPORTATION	
UTILITIES ENGINEERING SEC. PHONE: (919) 707-6690 FAX: (919) 250-4151	Document Not Considered Final Unless All Signatures Completed UTILITY CONSTRUCTION PLANS ONLY

FINAL PLANS
RELEASED FOR CONSTRUCTION

UTILITY CONSTRUCTION



NOTE:
 THE ESTIMATED QUANTITY OF DUCTILE IRON WATER PIPE FITTINGS ON THIS PLAN SHEET IS 125 POUNDS. THE ACTUAL QUANTITY AND TYPE OF FITTINGS WILL VARY BASED ON FIELD CONDITIONS.

NOTE 1:
 CONTRACTOR TO LOCATE, VERIFY AND REPLACE ALL WATER METER SERVICES.

5/14/99

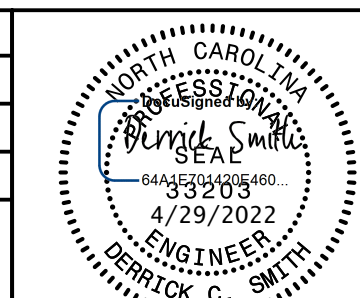
5/14/99

PREPARED IN THE OFFICE OF:

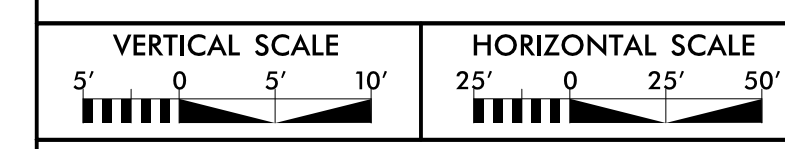


301 West 14th Street, Greenville, NC 27834
252.732.0100 Fax: 252.732.0211
Licenses: 1-020

PROJECT REFERENCE NO.	SHEET NO.
R-4705	UC-12
DESIGNED BY: DCS	
DRAWN BY: TKBTH	
CHECKED BY: BCS	
APPROVED BY: DCS	
REVISED: 3-18-2022	
NORTH CAROLINA DEPARTMENT OF TRANSPORTATION	
UTILITIES ENGINEERING SEC. PHONE: (919) 707-6690 FAX: (919) 250-4151	



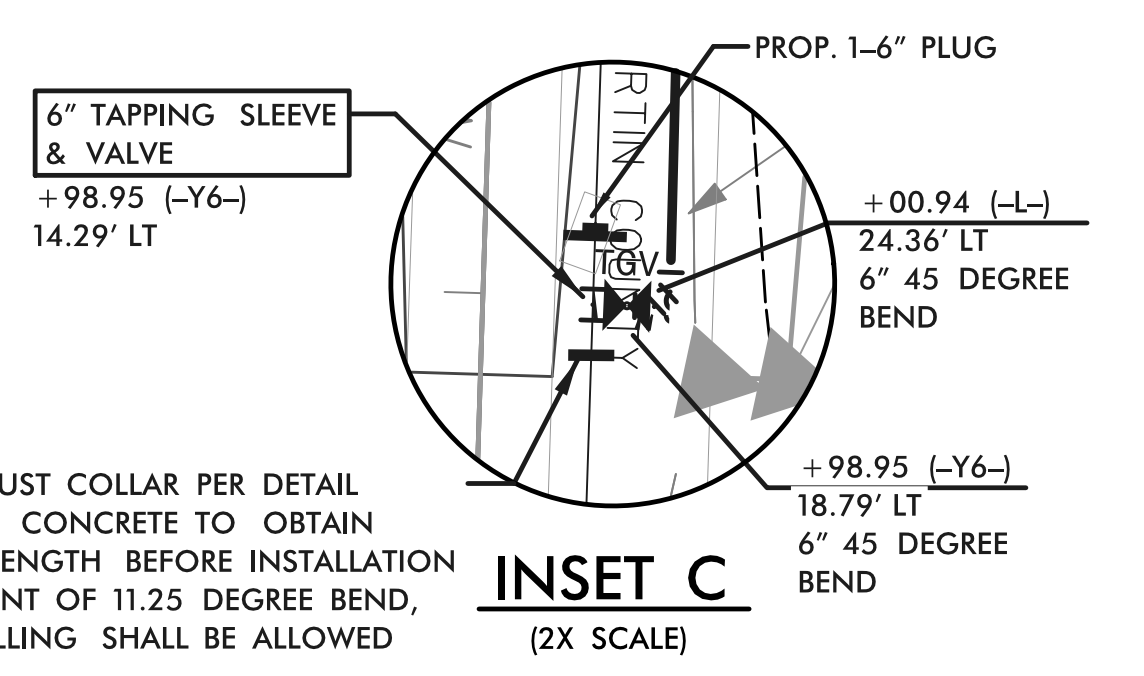
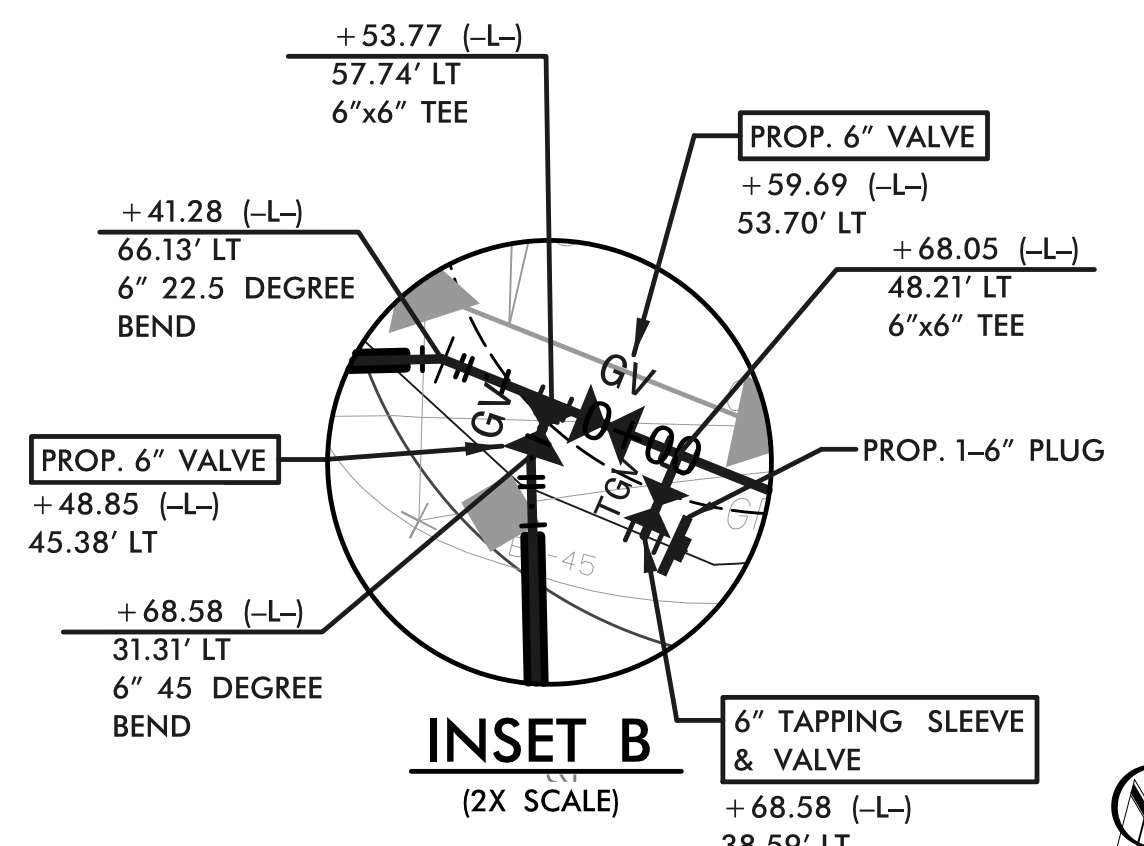
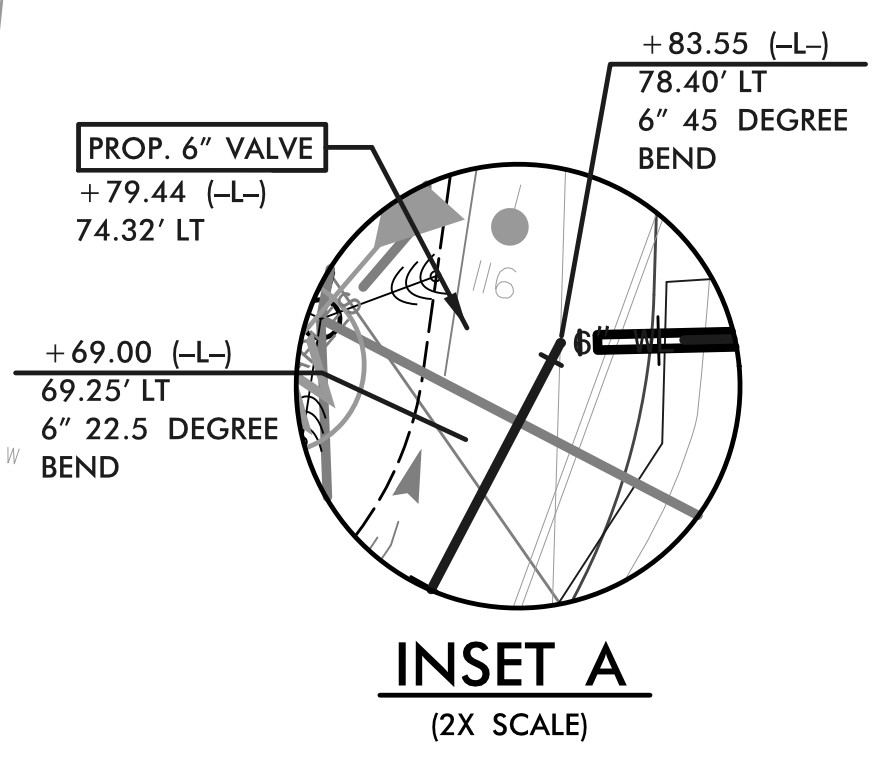
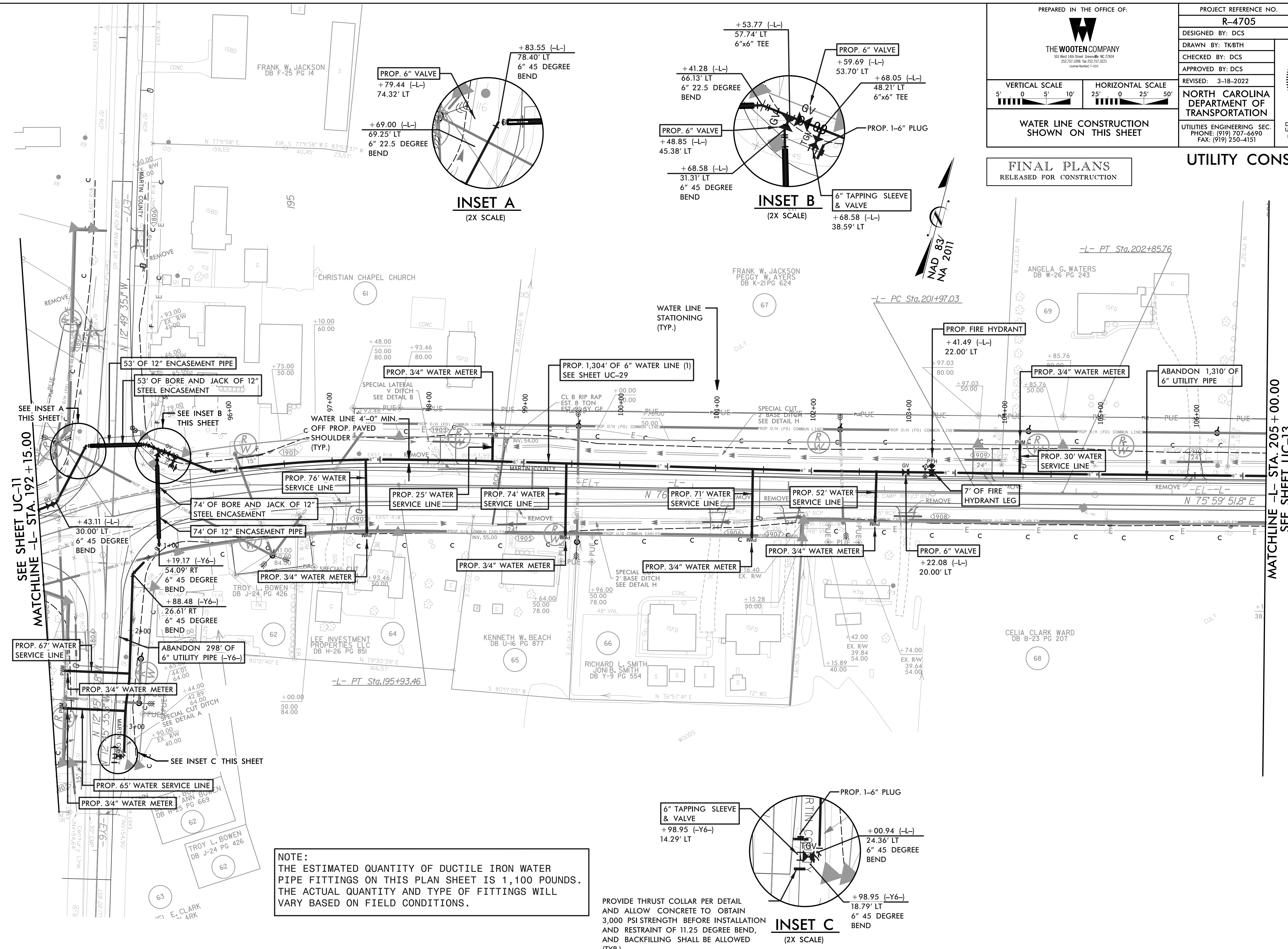
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UTILITY CONSTRUCTION
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WATER LINE CONSTRUCTION
SHOWN ON THIS SHEET

FINAL PLANS
RELEASED FOR CONSTRUCTION

UTILITY CONSTRUCTION



NOTE:
THE ESTIMATED QUANTITY OF DUCTILE IRON WATER PIPE FITTINGS ON THIS PLAN SHEET IS 1,100 POUNDS. THE ACTUAL QUANTITY AND TYPE OF FITTINGS WILL VARY BASED ON FIELD CONDITIONS.

PROVIDE THRUST COLLAR PER DETAIL AND ALLOW CONCRETE TO OBTAIN 3,000 PSI STRENGTH BEFORE INSTALLATION AND RESTRAINT OF 11.25 DEGREE BEND, AND BACKFILLING SHALL BE ALLOWED (TYP.)

NOTE 1:
CONTRACTOR TO LOCATE, VERIFY AND REPLACE ALL WATER METER SERVICES.

SEE SHEET UC-11
MATCHLINE -L- STA. 192+15.00

MATCHLINE -L- STA. 205+00.00
SEE SHEET UC-13

5/14/99

5/14/99

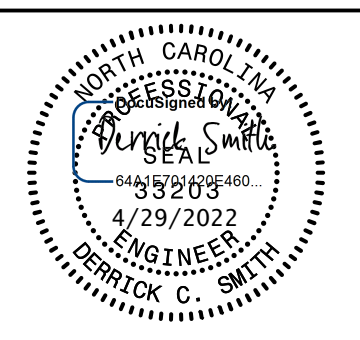
PREPARED IN THE OFFICE OF:



THE WOOTEN COMPANY
301 West 14th Street, Greensboro, NC 27404
336.752.1000 Fax: 336.752.9211
License Number: F-4025

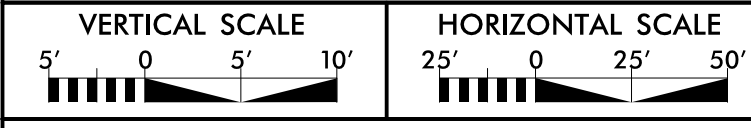
PROJECT REFERENCE NO. R-4705 SHEET NO. UC-14

DESIGNED BY: DCS
DRAWN BY: TK/BTH
CHECKED BY: DCS
APPROVED BY: DCS
REVISED: 3-18-2022



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

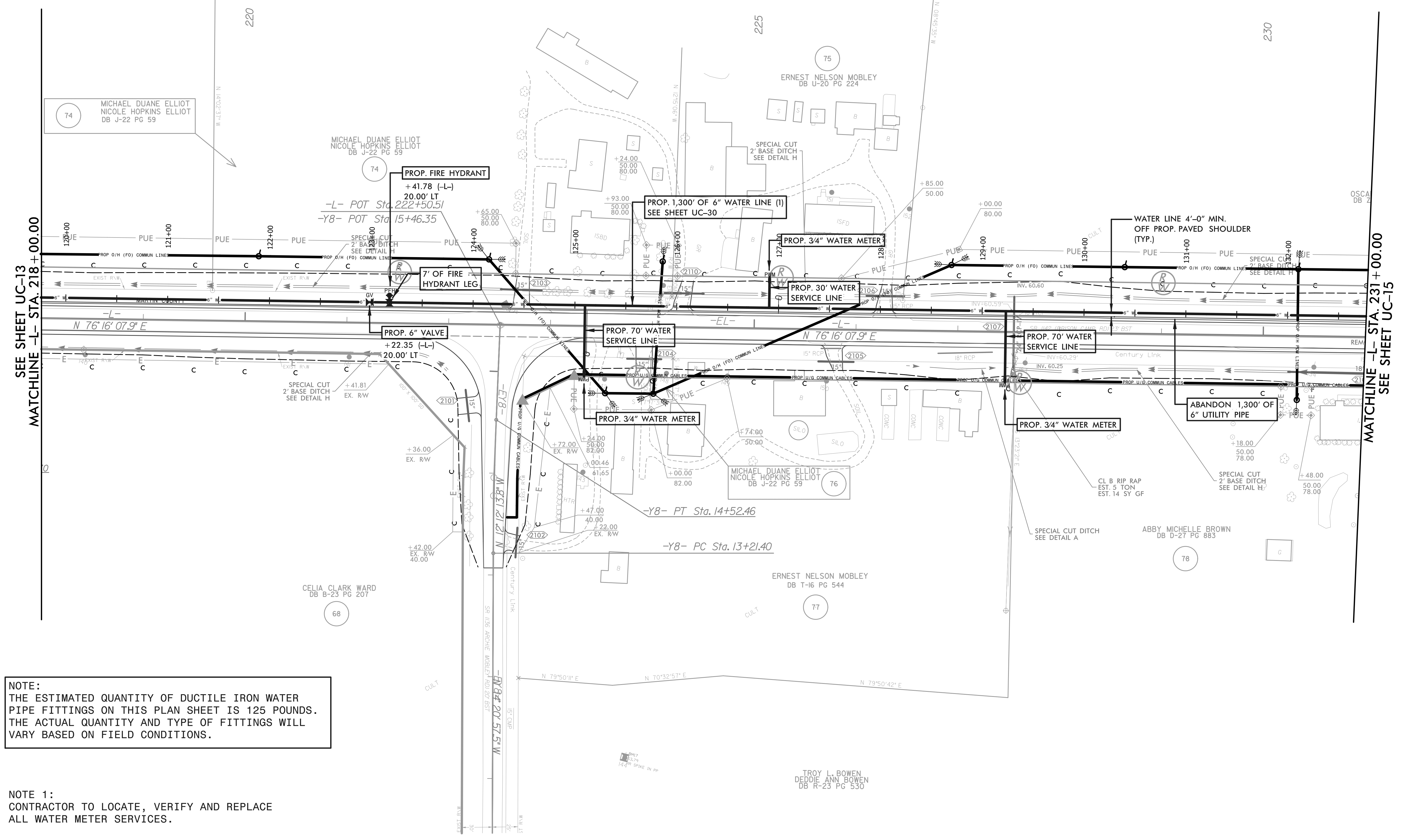
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WATER LINE CONSTRUCTION SHOWN ON THIS SHEET

FINAL PLANS
RELEASED FOR CONSTRUCTION

UTILITY CONSTRUCTION



NOTE:
THE ESTIMATED QUANTITY OF DUCTILE IRON WATER PIPE FITTINGS ON THIS PLAN SHEET IS 125 POUNDS. THE ACTUAL QUANTITY AND TYPE OF FITTINGS WILL VARY BASED ON FIELD CONDITIONS.


NOTE 1:
CONTRACTOR TO LOCATE, VERIFY AND REPLACE ALL WATER METER SERVICES.

TROY L. BOWEN
DEDDIE ANN BOWEN
DB R-23 PG 530

5/14/99

5/14/99

PREPARED IN THE OFFICE OF:



THE WOOTEN COMPANY
301 West 14th Street, Greensboro, NC 27404
252.732.0096 Fax: 252.732.0221
License Number: F-003

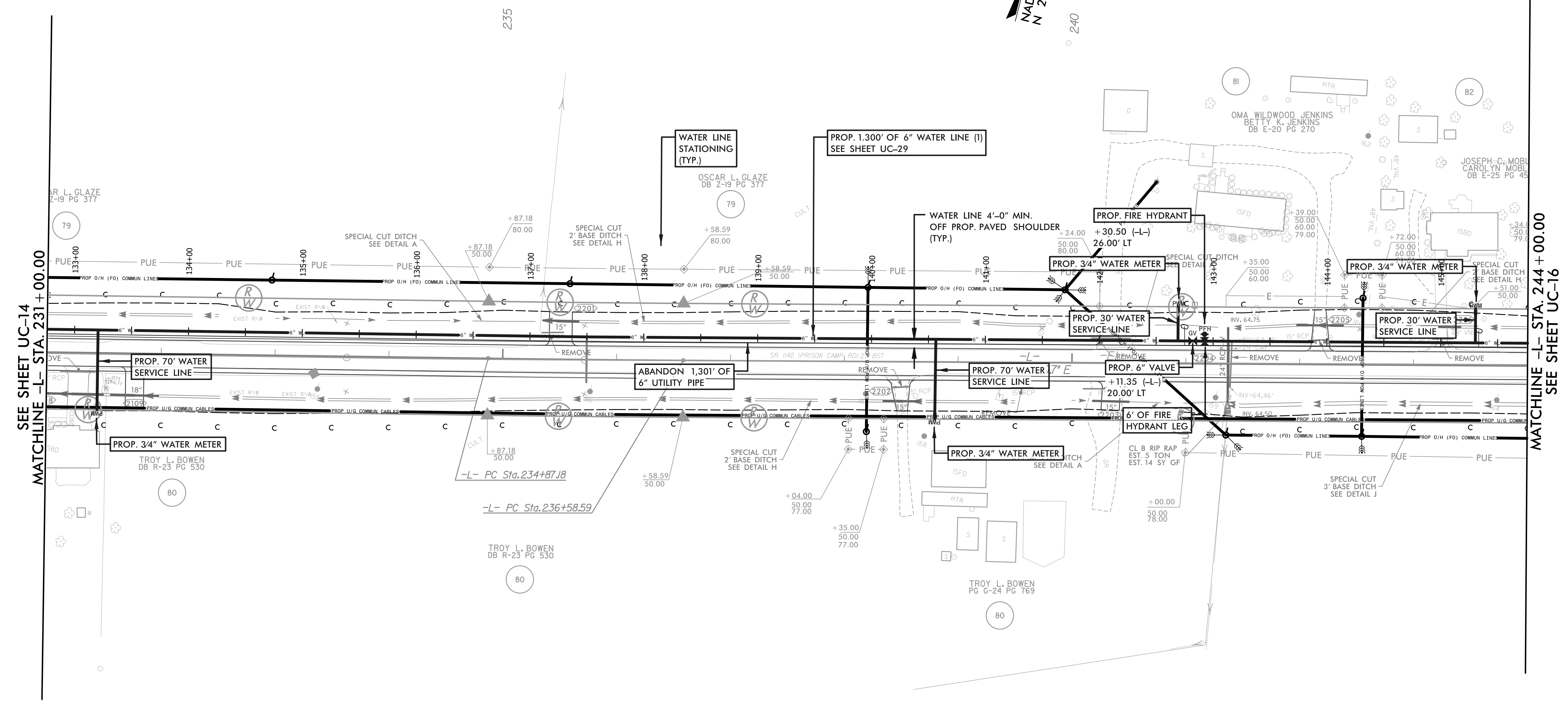
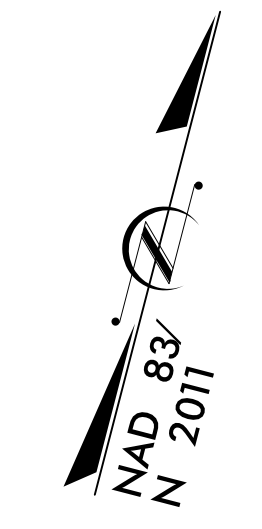
PROJECT REFERENCE NO.	R-4705	SHEET NO.	UC-15
DESIGNED BY:	DCS		
DRAWN BY:	TKBTH		
CHECKED BY:	DCS		
APPROVED BY:	DCS		
REVISED:	3-18-2022		

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

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UTILITY CONSTRUCTION



SEE SHEET UC-14
MATCHLINE -L- STA. 231 + 00.00


MATCHLINE -L- STA. 244 + 00.00
SEE SHEET UC-16

NOTE:
THE ESTIMATED QUANTITY OF DUCTILE IRON WATER PIPE FITTINGS ON THIS PLAN SHEET IS 125 POUNDS. THE ACTUAL QUANTITY AND TYPE OF FITTINGS WILL VARY BASED ON FIELD CONDITIONS.

NOTE 1:
CONTRACTOR TO LOCATE, VERIFY AND REPLACE ALL WATER METER SERVICES.

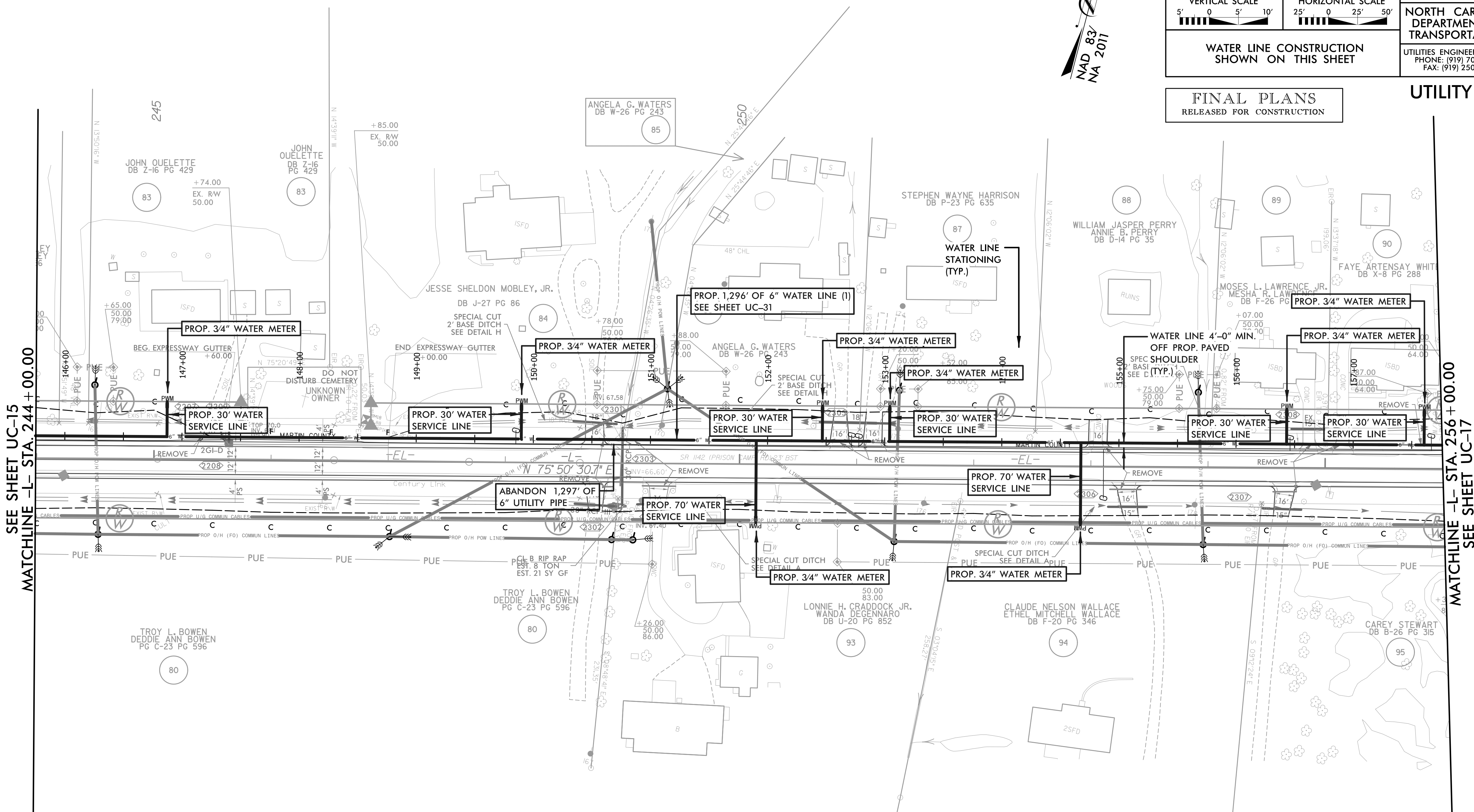
-L-
PI Sta 235+72.88
Δ = 0° 25' 37.2" (LT)
D = 0' 14' 56.8"
L = 171.4'
T = 85.70'
R = 23,000.00'
DS = 60 MPH
SE = NC
RO = SEE PLANS

5/14/99

PREPARED IN THE OFFICE OF:  THE WOOTEN COMPANY <small>301 West 14th Street, Greensboro, NC 27404 (336) 272-0096 Fax: (336) 272-3221 License Number: F-4025</small>	PROJECT REFERENCE NO. R-4705	SHEET NO. UC-16
	DESIGNED BY: DCS DRAWN BY: TK8TH CHECKED BY: DCS APPROVED BY: DCS REVISED: 3-18-2022 NORTH CAROLINA DEPARTMENT OF TRANSPORTATION UTILITIES ENGINEERING SEC. PHONE: (919) 707-6690 FAX: (919) 250-4151	

FINAL PLANS
RELEASED FOR CONSTRUCTION

UTILITY CONSTRUCTION

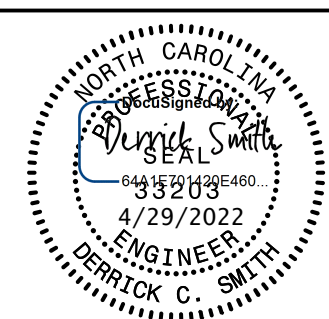
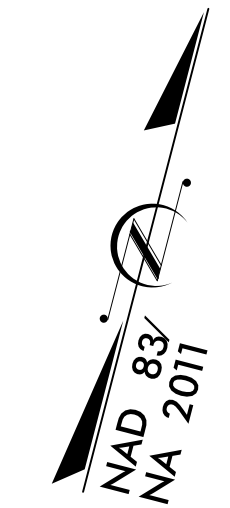


SEE SHEET UC-15
MATCHLINE -L- STA. 244 + 00.00

MATCHLINE -L- STA. 256 + 00.00
SEE SHEET UC-17

NOTE:
THE ESTIMATED QUANTITY OF DUCTILE IRON WATER PIPE FITTINGS ON THIS PLAN SHEET IS 0 POUNDS. THE ACTUAL QUANTITY AND TYPE OF FITTINGS WILL VARY BASED ON FIELD CONDITIONS.

NOTE 1:
CONTRACTOR TO LOCATE, VERIFY AND REPLACE ALL WATER METER SERVICES.



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PREPARED IN THE OFFICE OF:



THE WOOTEN COMPANY
301 West 14th Street, Greensboro, NC 27404
252.732.0100 Fax: 252.732.0211
Licenses: 1-020

PROJECT REFERENCE NO.

R-4705

SHEET NO.

UC-18

DESIGNED BY: DCS

DRAWN BY: TK8TH

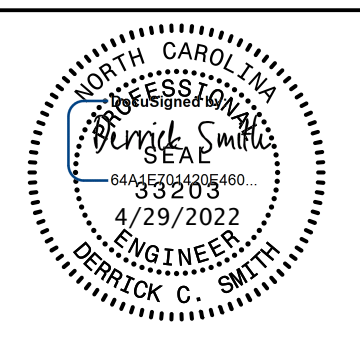
CHECKED BY: DCS

APPROVED BY: DCS

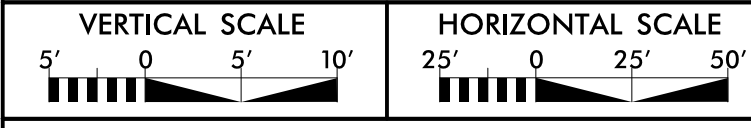
REVISED: 3-18-2022

NORTH CAROLINA
DEPARTMENT OF
TRANSPORTATION

UTILITIES ENGINEERING SEC.
PHONE: (919) 707-6690
FAX: (919) 250-4151



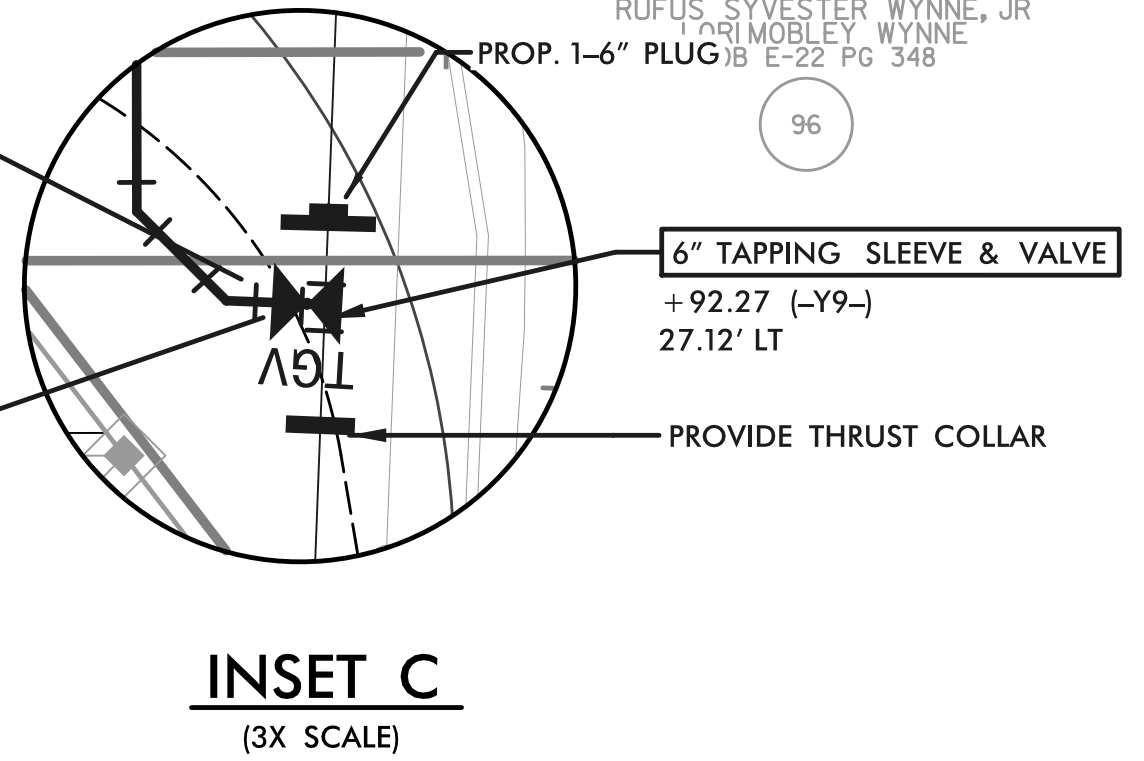
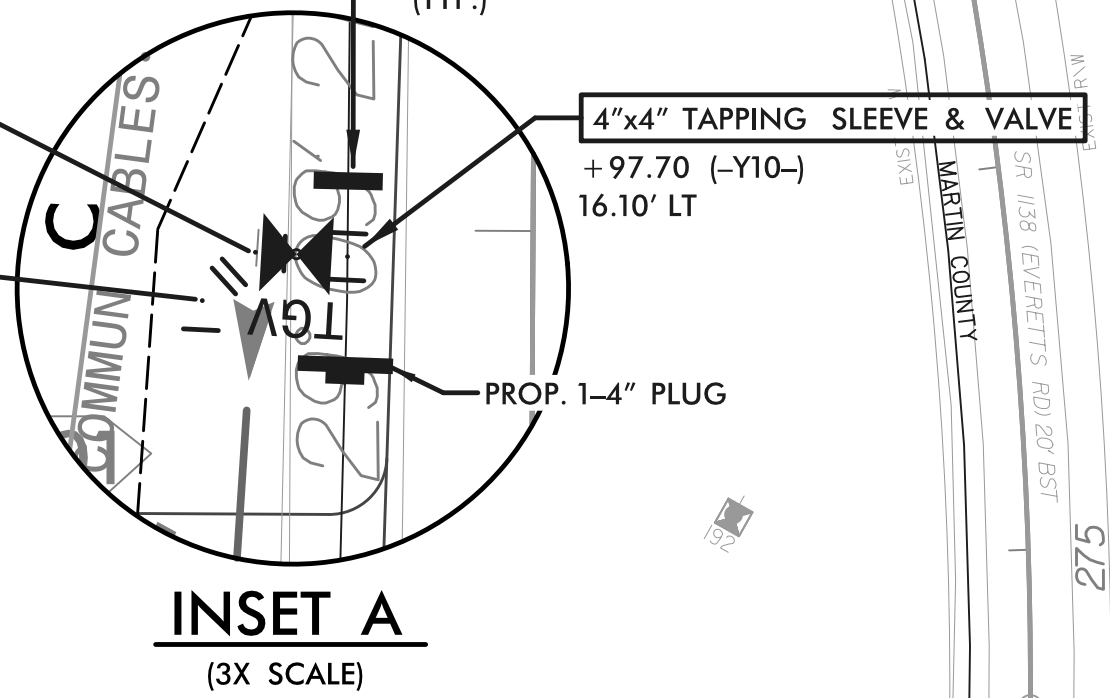
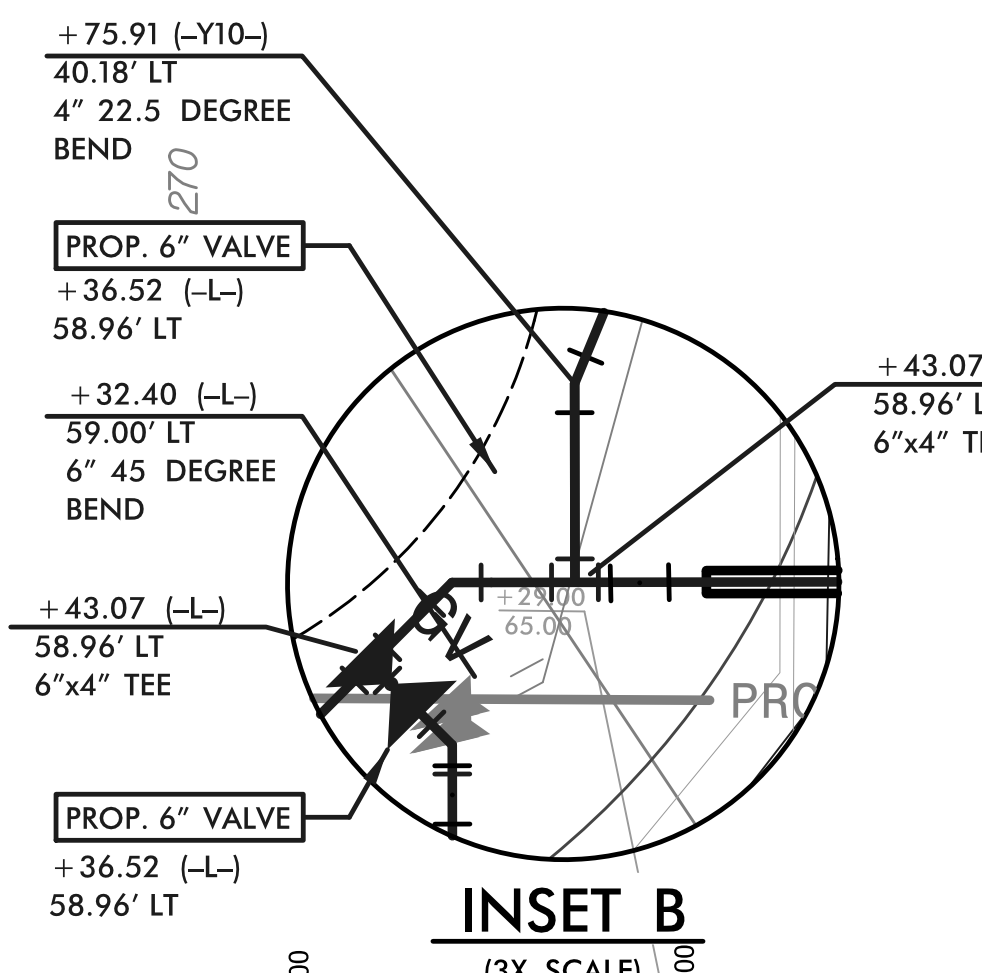
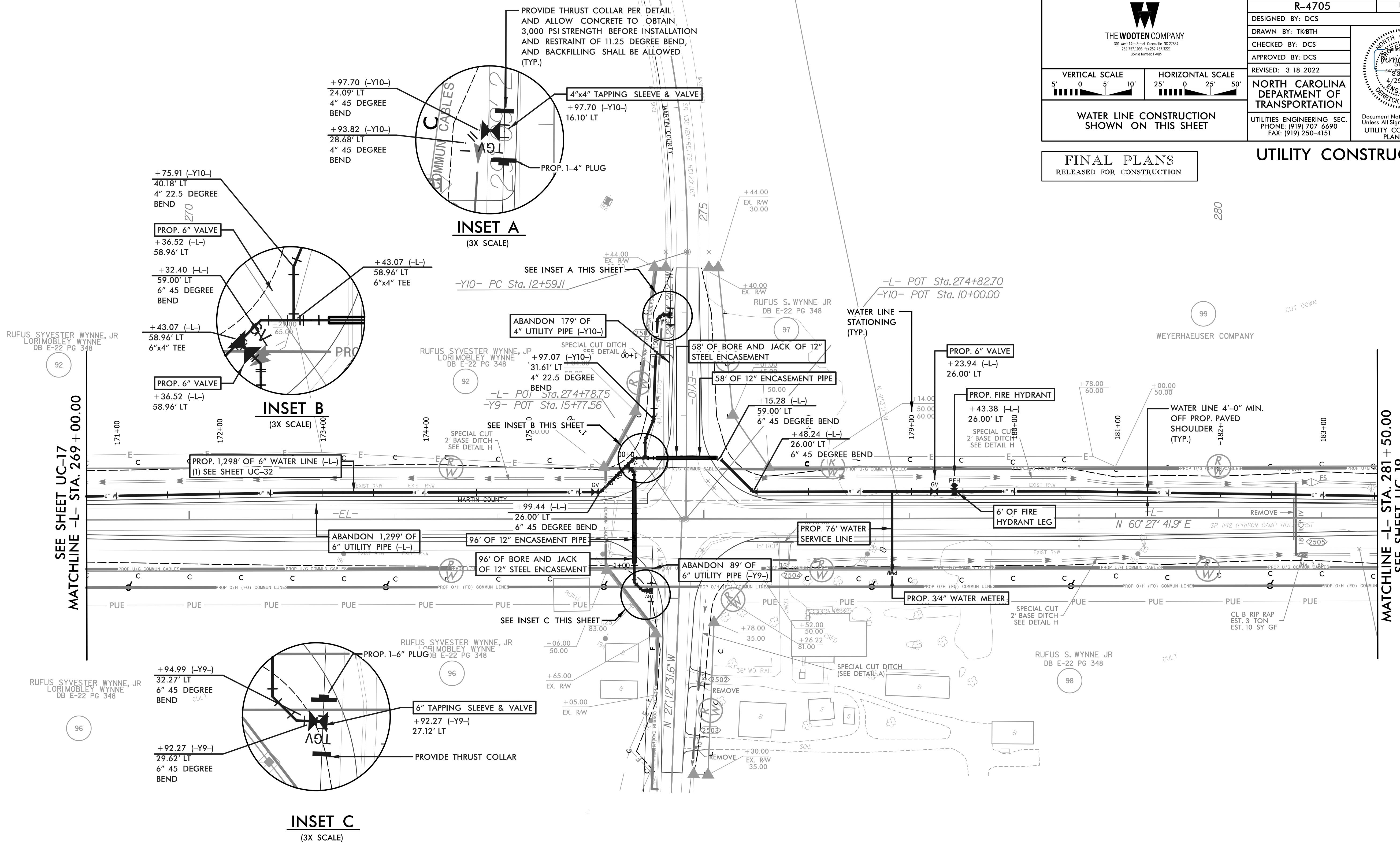
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Unless All Signatures Completed
UTILITY CONSTRUCTION
PLANS ONLY



WATER LINE CONSTRUCTION
SHOWN ON THIS SHEET

FINAL PLANS
RELEASED FOR CONSTRUCTION

UTILITY CONSTRUCTION




NOTE:
THE ESTIMATED QUANTITY OF DUCTILE IRON WATER
PIPE FITTINGS ON THIS PLAN SHEET IS 1,355 POUNDS.
THE ACTUAL QUANTITY AND TYPE OF FITTINGS WILL
VARY BASED ON FIELD CONDITIONS.

NOTE 1:
CONTRACTOR TO LOCATE, VERIFY AND REPLACE
ALL WATER METER SERVICES.

5/14/99

5/14/99

PREPARED IN THE OFFICE OF:



THE WOOTEN COMPANY
301 West 14th Street, Greenville, NC 27834
252.732.0100 Fax: 252.732.3221
Licenses: 1-025

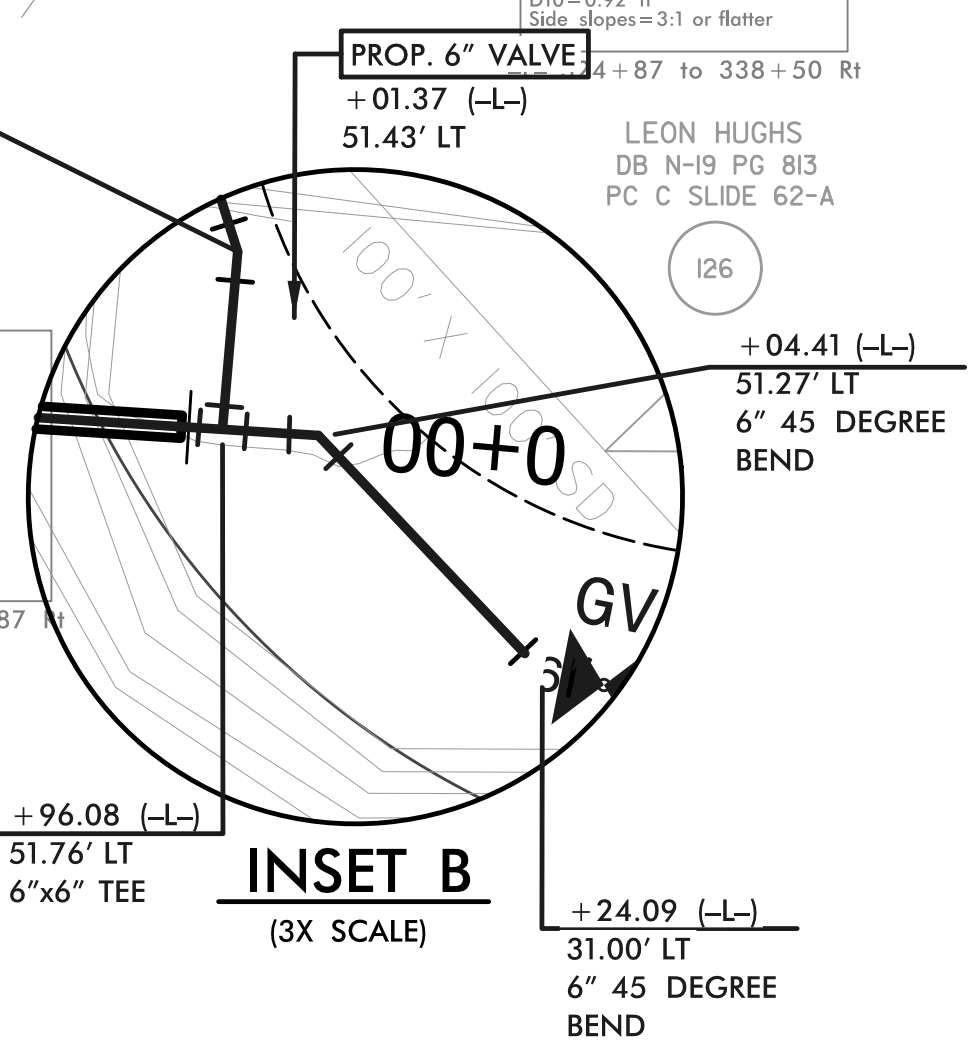
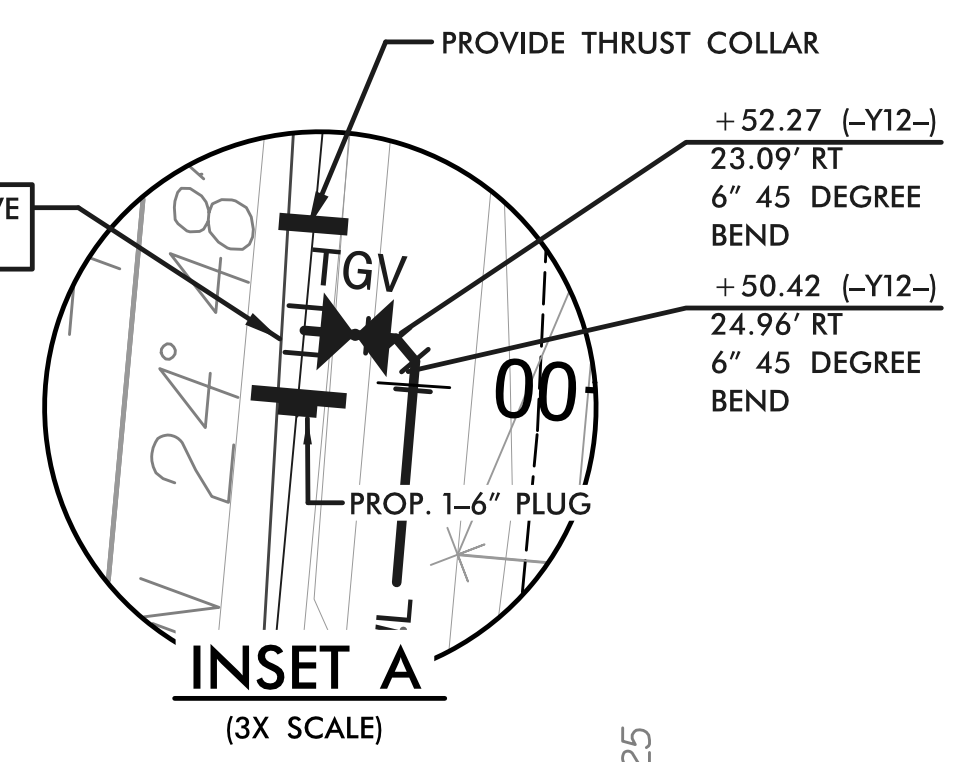
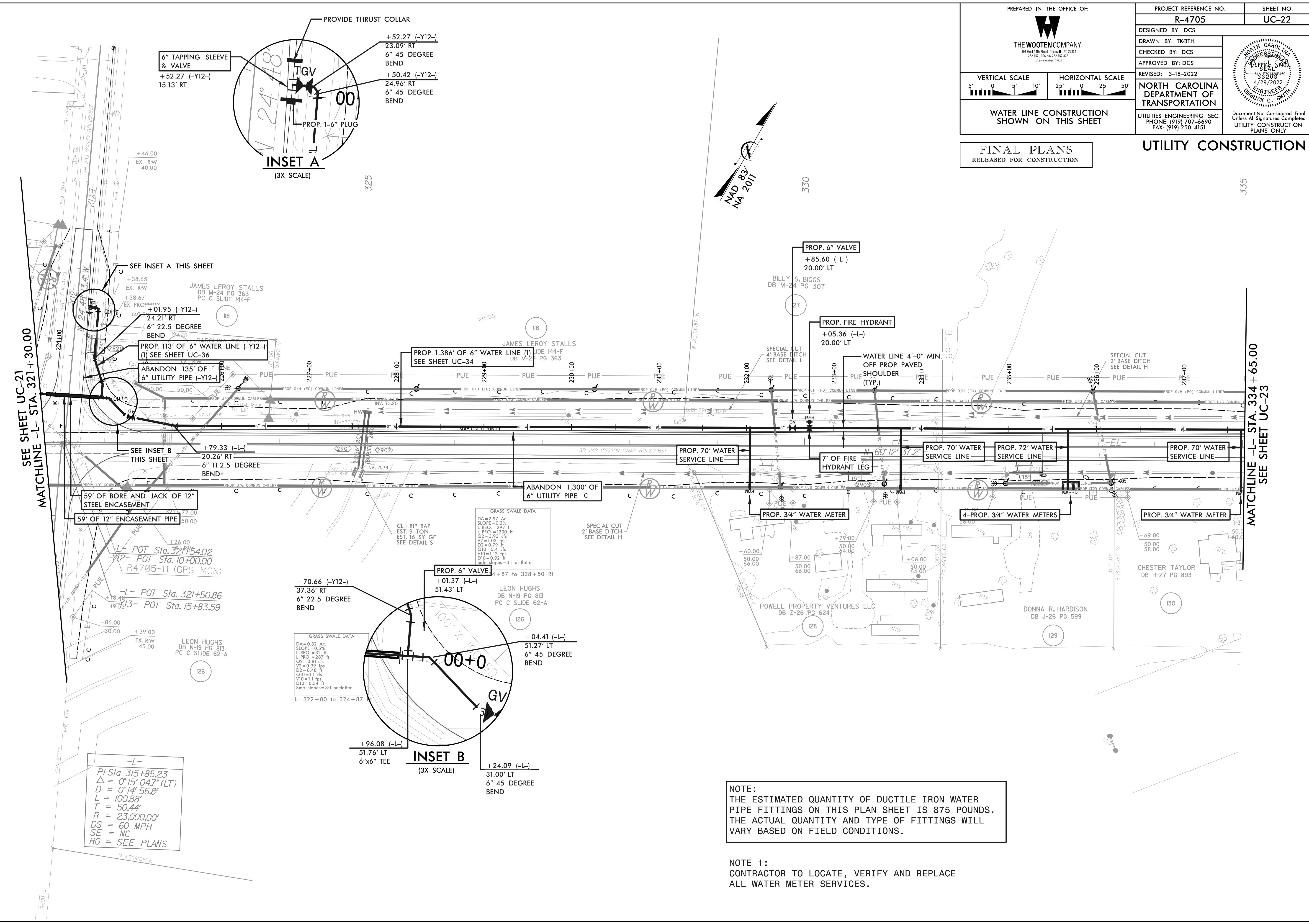
PROJECT REFERENCE NO.	R-4705	SHEET NO.	UC-22
DESIGNED BY:	DCS		
DRAWN BY:	TKBTH		
CHECKED BY:	DCS		
APPROVED BY:	DCS		
REVISED:	3-18-2022		
NORTH CAROLINA DEPARTMENT OF TRANSPORTATION			
UTILITIES ENGINEERING SEC.		Document Not Considered Final Unless All Signatures Completed UTILITY CONSTRUCTION PLANS ONLY	
PHONE: (919) 707-6690		FAX: (919) 250-4151	

VERTICAL SCALE: 5' 0 5' 10'
HORIZONTAL SCALE: 25' 0 25' 50'

WATER LINE CONSTRUCTION SHOWN ON THIS SHEET

FINAL PLANS
RELEASED FOR CONSTRUCTION

UTILITY CONSTRUCTION



-L-
PI Sta 315+85.23
Δ = 0° 15' 04.7" (LT)
D = 0° 14' 56.8"
L = 100.88'
T = 50.44'
R = 23,000.00'
DS = 60 MPH
SE = NC
RO = SEE PLANS

NOTE:
THE ESTIMATED QUANTITY OF DUCTILE IRON WATER PIPE FITTINGS ON THIS PLAN SHEET IS 875 POUNDS. THE ACTUAL QUANTITY AND TYPE OF FITTINGS WILL VARY BASED ON FIELD CONDITIONS.

NOTE 1:
CONTRACTOR TO LOCATE, VERIFY AND REPLACE ALL WATER METER SERVICES.

5/14/99

PREPARED IN THE OFFICE OF:



THE WOOTEN COMPANY
301 West 14th Street, Greensboro, NC 27404
252.732.0099 Fax: 252.732.3222
License Number: F-4033

PROJECT REFERENCE NO.

R-4705

SHEET NO.

UC-25

DESIGNED BY: DCS

DRAWN BY: TK8TH

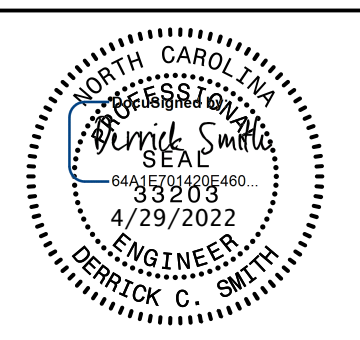
CHECKED BY: DCS

APPROVED BY: DCS

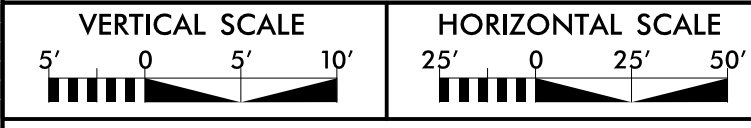
REVISED: 3-18-2022

NORTH CAROLINA
DEPARTMENT OF
TRANSPORTATION

UTILITIES ENGINEERING SEC.
PHONE: (919) 707-6690
FAX: (919) 250-4151



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WATER LINE CONSTRUCTION
SHOWN ON THIS SHEET

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UTILITY CONSTRUCTION

50

40

30

20

10

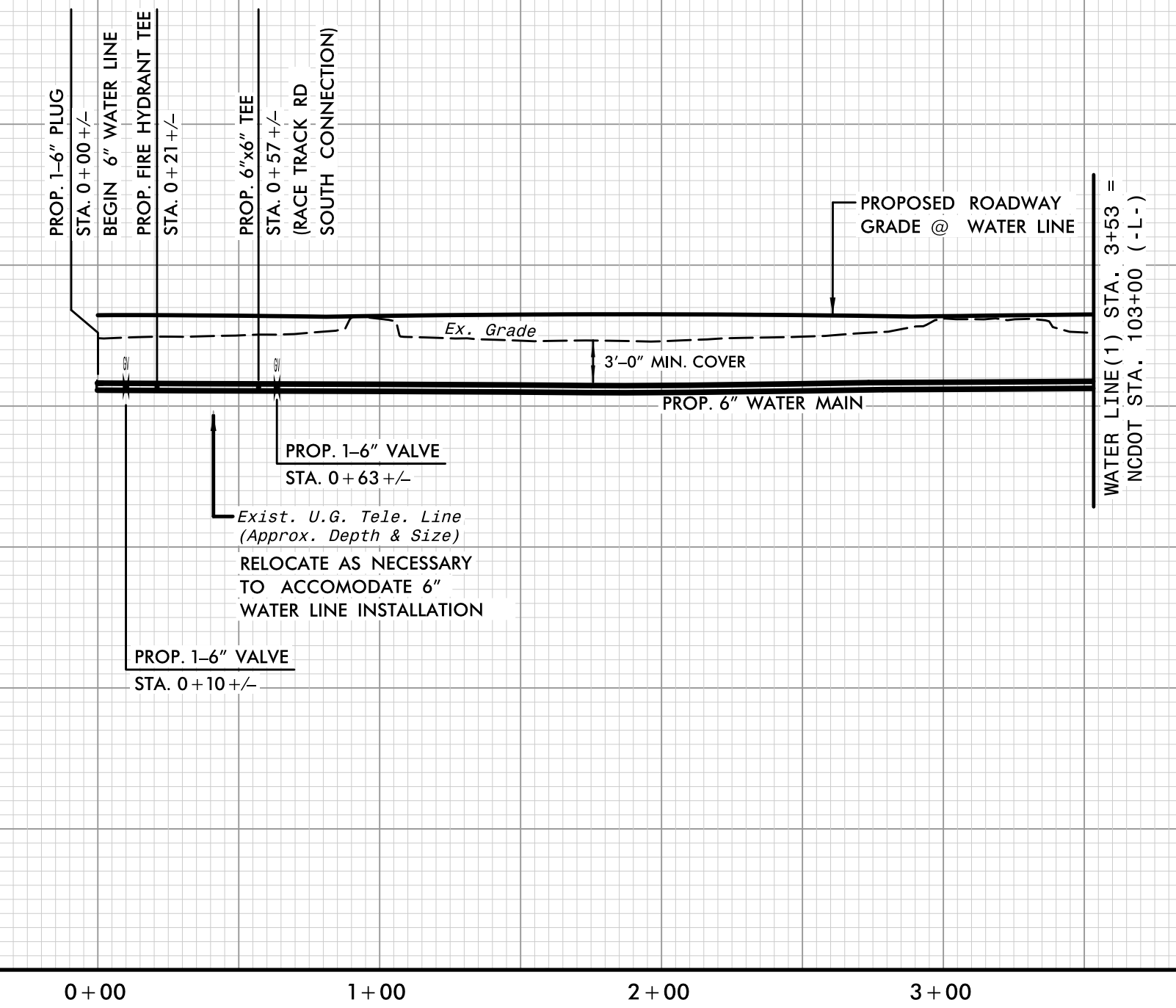
0

10

PROFILE SHOWN IS BASED ON STATIONING ALONG
PROPOSED WATER LINE ALIGNMENT ALONG
ROADWAY ALIGNMENT -L-
(SEE SHEET UC-4)

6" Water Line (1)

80
70
60
50
40
30
20
10
0

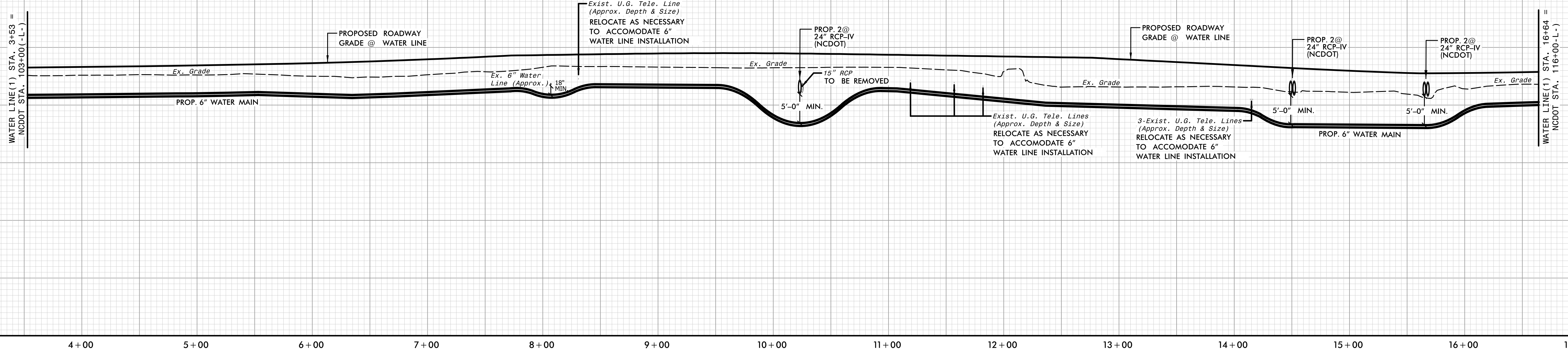


0+00 1+00 2+00 3+00

PROFILE SHOWN IS BASED ON STATIONING ALONG
PROPOSED WATER LINE ALIGNMENT ALONG
ROADWAY ALIGNMENT -L-
(SEE SHEET UC-5)

6" Water Line (1)

80
70
60
50
40
30
20
10
0



3+00 4+00 5+00 6+00 7+00 8+00 9+00 10+00 11+00 12+00 13+00 14+00 15+00 16+00 17+00

80

70

60

50

40

30

20

10

0

10

0

10

Vertical Scale: 1 inch = 5 feet. Horizontal Scale: 1 inch = 25 feet.

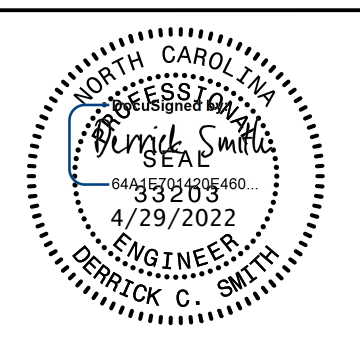
PREPARED IN THE OFFICE OF:



THE WOOTEN COMPANY
301 West 14th Street, Greenville, NC 27834
252.752.1000 Fax: 252.752.1022
License Number: F-103

PROJECT REFERENCE NO. R-4705 SHEET NO. UC-26

DESIGNED BY: DCS
DRAWN BY: TK8TH
CHECKED BY: DCS
APPROVED BY: DCS
REVISED: 3-18-2022
NORTH CAROLINA DEPARTMENT OF TRANSPORTATION
UTILITIES ENGINEERING SEC.
PHONE: (919) 707-6690
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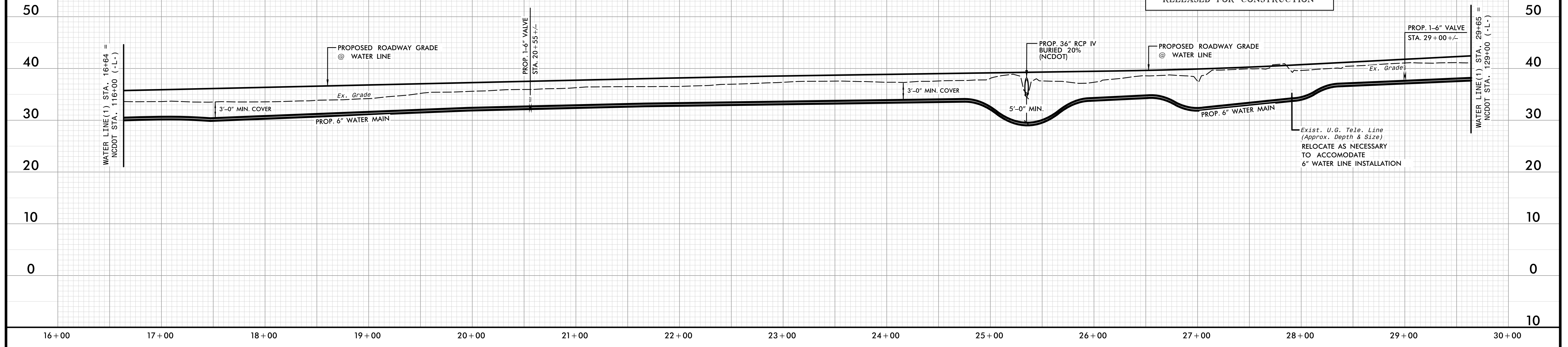
WATER LINE CONSTRUCTION SHOWN ON THIS SHEET

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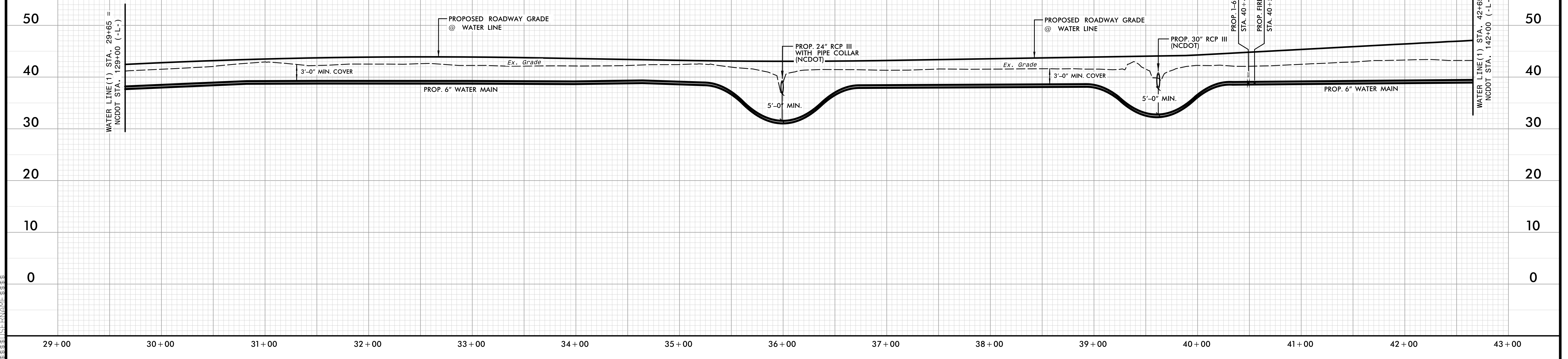
PROFILE SHOWN IS BASED ON STATIONING ALONG PROPOSED WATER LINE ALIGNMENT ALONG ROADWAY ALIGNMENT -L- (SEE SHEET UC-6)

6" Water Line (1)



PROFILE SHOWN IS BASED ON STATIONING ALONG PROPOSED WATER LINE ALIGNMENT ALONG ROADWAY ALIGNMENT -L- (SEE SHEET UC-7)

6" Water Line (1)



UC-26 (1) of 6
UC-26 (2) of 6
UC-26 (3) of 6
UC-26 (4) of 6
UC-26 (5) of 6
UC-26 (6) of 6
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UC-26 (99) of 6
UC-26 (100) of 6

PREPARED IN THE OFFICE OF:



THE WOOTEN COMPANY
301 West 14th Street, Greensboro, NC 27404
252.752.0096 Fax: 252.752.0221
License Number: F-1033

PROJECT REFERENCE NO.

R-4705

SHEET NO.

UC-27

DESIGNED BY: DCS

DRAWN BY: TK8TH

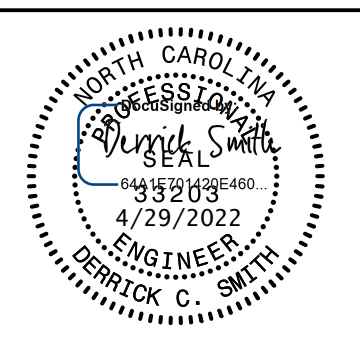
CHECKED BY: DCS

APPROVED BY: DCS

REVISED: 3-18-2022

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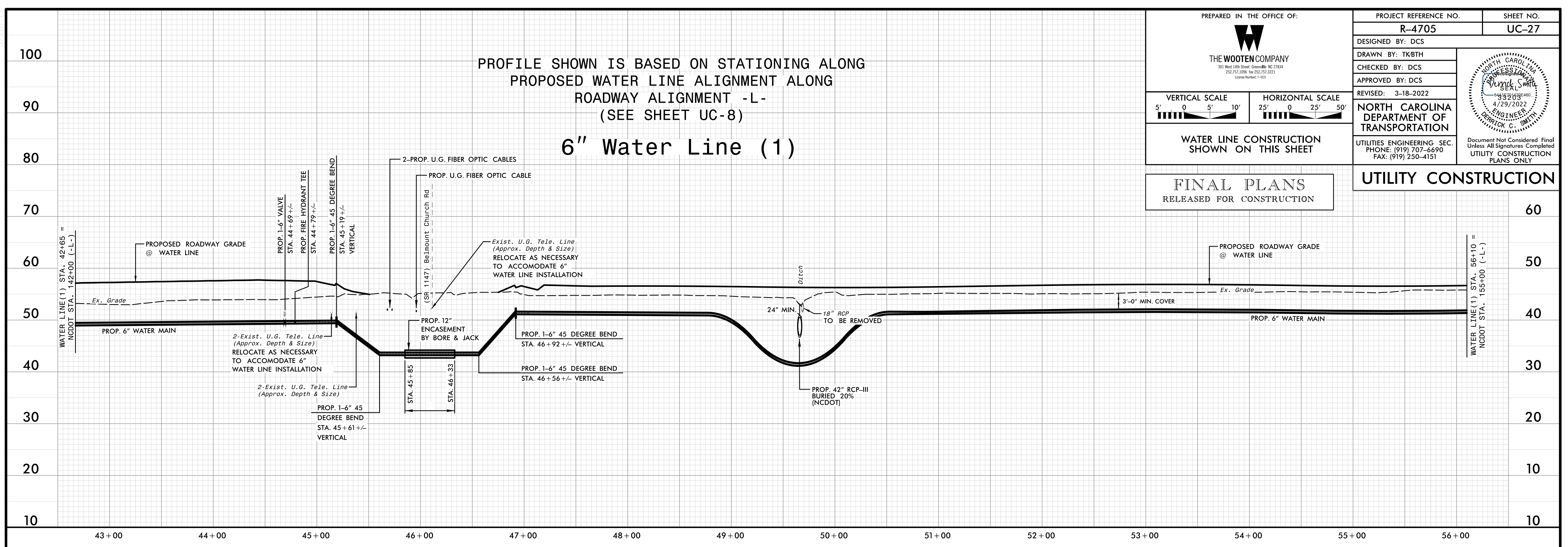
WATER LINE CONSTRUCTION
SHOWN ON THIS SHEET

FINAL PLANS
RELEASED FOR CONSTRUCTION

UTILITY CONSTRUCTION

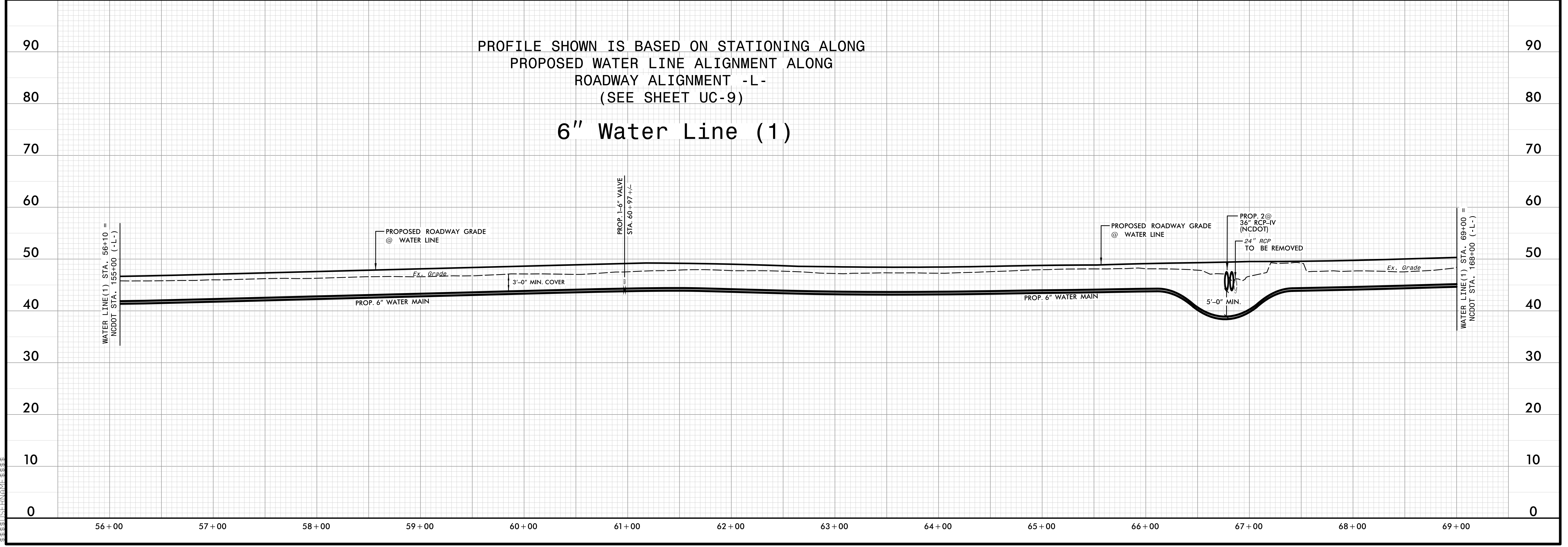
PROFILE SHOWN IS BASED ON STATIONING ALONG
PROPOSED WATER LINE ALIGNMENT ALONG
ROADWAY ALIGNMENT -L-
(SEE SHEET UC-8)

6" Water Line (1)



PROFILE SHOWN IS BASED ON STATIONING ALONG
PROPOSED WATER LINE ALIGNMENT ALONG
ROADWAY ALIGNMENT -L-
(SEE SHEET UC-9)

6" Water Line (1)



UC-27-28-29-30-31-32-33-34-35-36-37-38-39-40-41-42-43-44-45-46-47-48-49-50-51-52-53-54-55-56-57-58-59-60-61-62-63-64-65-66-67-68-69-70-71-72-73-74-75-76-77-78-79-80-81-82-83-84-85-86-87-88-89-90-91-92-93-94-95-96-97-98-99-100