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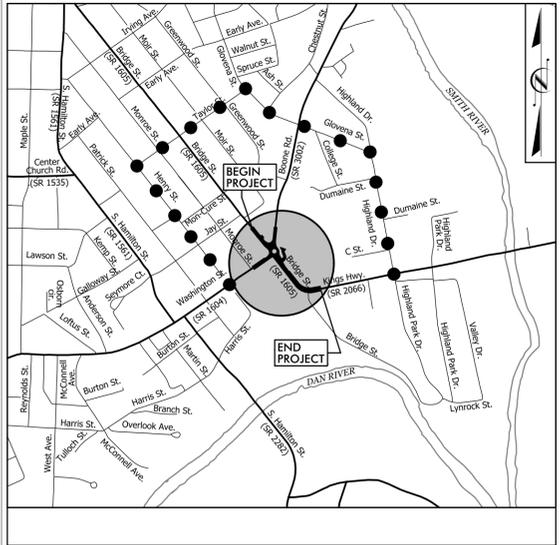
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12/12/2025
\\stvgc\cup.stv\inc.com\3\3\DGPA\Vol3\Projects\4022234\000\50\Deliverables & Submittals\502_Eden Roundabout\Utilities\Engineering\UC\Proj\Sheet\H193565_ut_uc_psh01.tsh.dgn
09/28/2019

TIP PROJECT: 50791

CONTRACT:

See Sheet UC-1 For Index of Sheets
See Sheet UC-2 For Standard Symbology Sheet

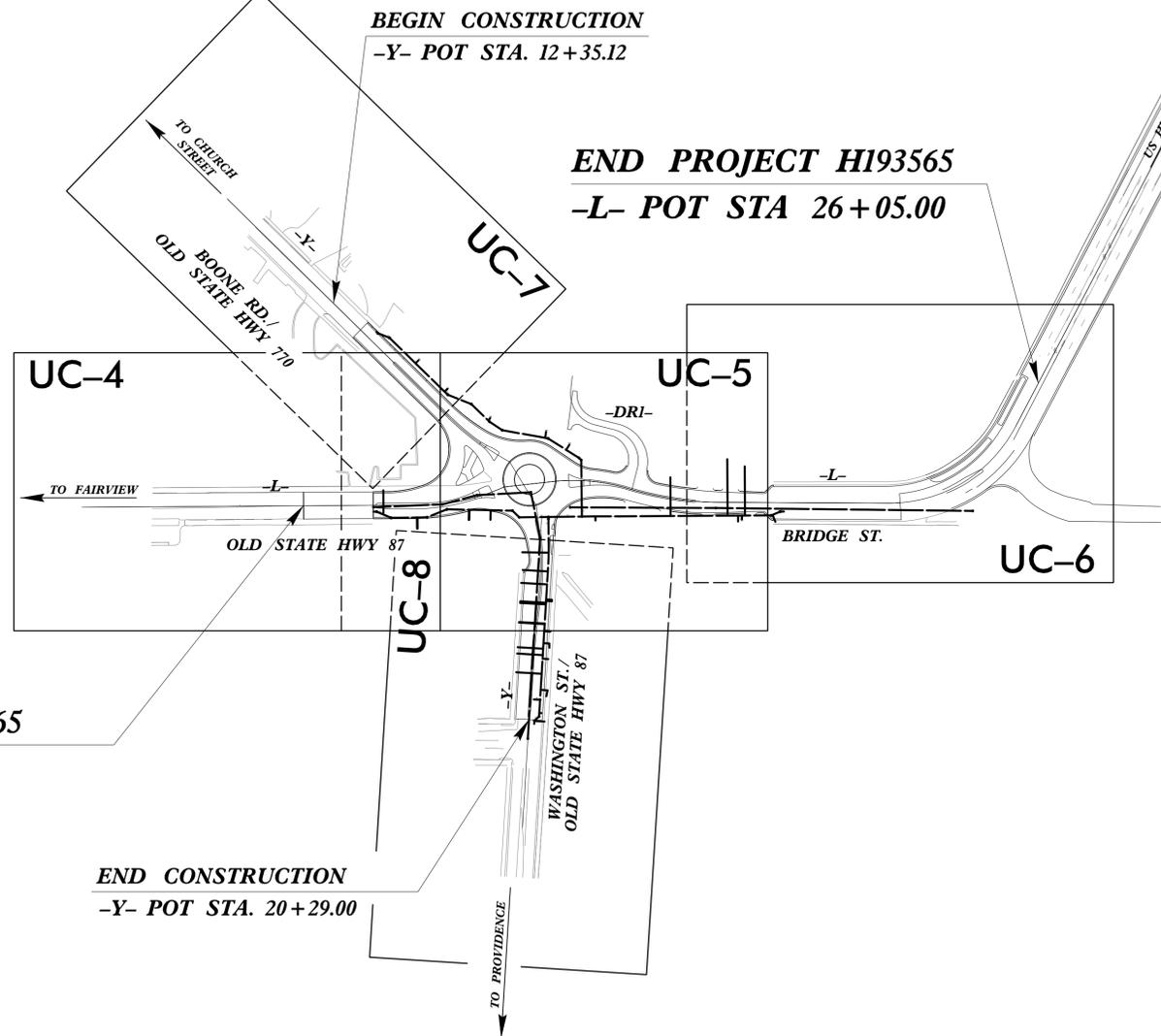


STATE OF NORTH CAROLINA
DIVISION OF HIGHWAYS

**UTILITY CONSTRUCTION PLANS
ROCKINGHAM COUNTY**

**LOCATION: INTERSECTION OF BRIDGE ST/(OLD STATE HWY 87) AND
BOONE RD/WASHINGTON ST (OLD STATE HWY 770) IN EDEN**

TYPE OF WORK: WATER LINE AND SANITARY SEWER RELOCATIONS



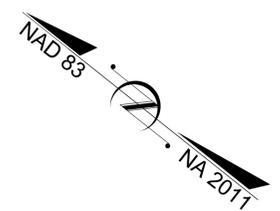
**BEGIN PROJECT H193565
-L- POT STA 13+50.00**

**BEGIN CONSTRUCTION
-Y- POT STA. 12+35.12**

**END PROJECT H193565
-L- POT STA 26+05.00**

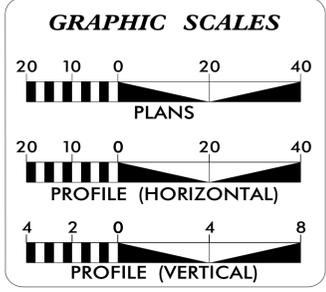
**END CONSTRUCTION
-Y- POT STA. 20+29.00**

T.I.P. NO.	SHEET NO.
50791	UC-1



**THIS PROJECT IS WITHIN THE MUNICIPAL BOUNDARY OF EDEN.
CLEARING ON THIS PROJECT SHALL BE PERFORMED TO THE LIMITS ESTABLISHED BY METHOD II**

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UNTIL ALL SIGNATURES ARE COMPLETED**



INDEX OF SHEETS

SHEET NO.:	DESCRIPTION:
UC-1	TITLE SHEET
UC-2	UTILITY SYMBOLOGY
UC-3 THRU UC-3A	NOTES AND DETAILS
UC-4 THRU UC-8	UTILITY PLAN SHEETS
UC-4A THRU UC-8A	SERVICE CONNECTION SHEETS
UC-9 THRU UC-11	UTILITY PROFILE SHEETS

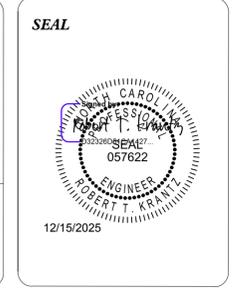
WATER AND SEWER OWNERS ON PROJECT

(A) WATER - CITY OF EDEN UTILITIES DEPARTMENT
(B) SEWER - CITY OF EDEN UTILITIES DEPARTMENT

PREPARED IN THE OFFICE OF

stv STV Engineers, Inc.
2151 Hawkins St., Suite 1400
Charlotte, NC 28203
NC License Number F-0991

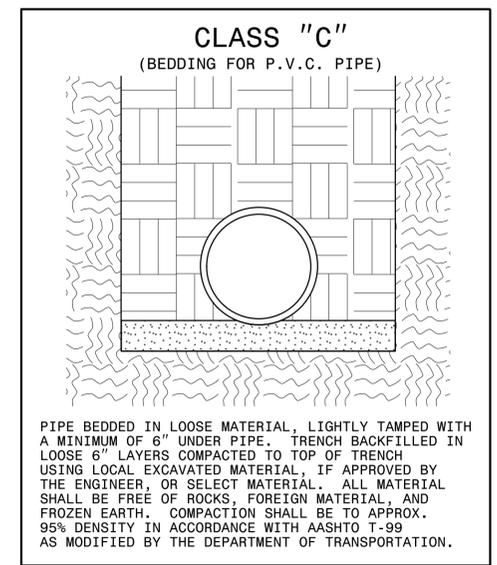
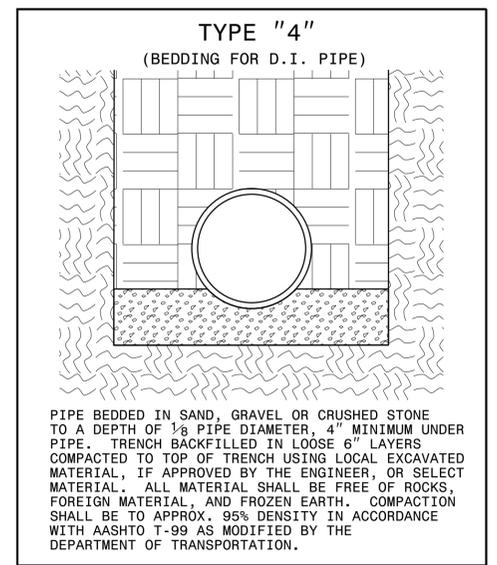
SEAN STEPHENS, PE CONSULTANT CONTACT #1
WESTON D. MURPHY, PE CONSULTANT CONTACT #2
ROBERT KRANTZ, PE CONSULTANT CONTACT #3



DIVISION OF HIGHWAYS UTILITIES UNIT
1555 MAIL SERVICES CENTER
RALEIGH, NC 27699-1555
PHONE (919) 707-6690
FAX (919) 250-4151

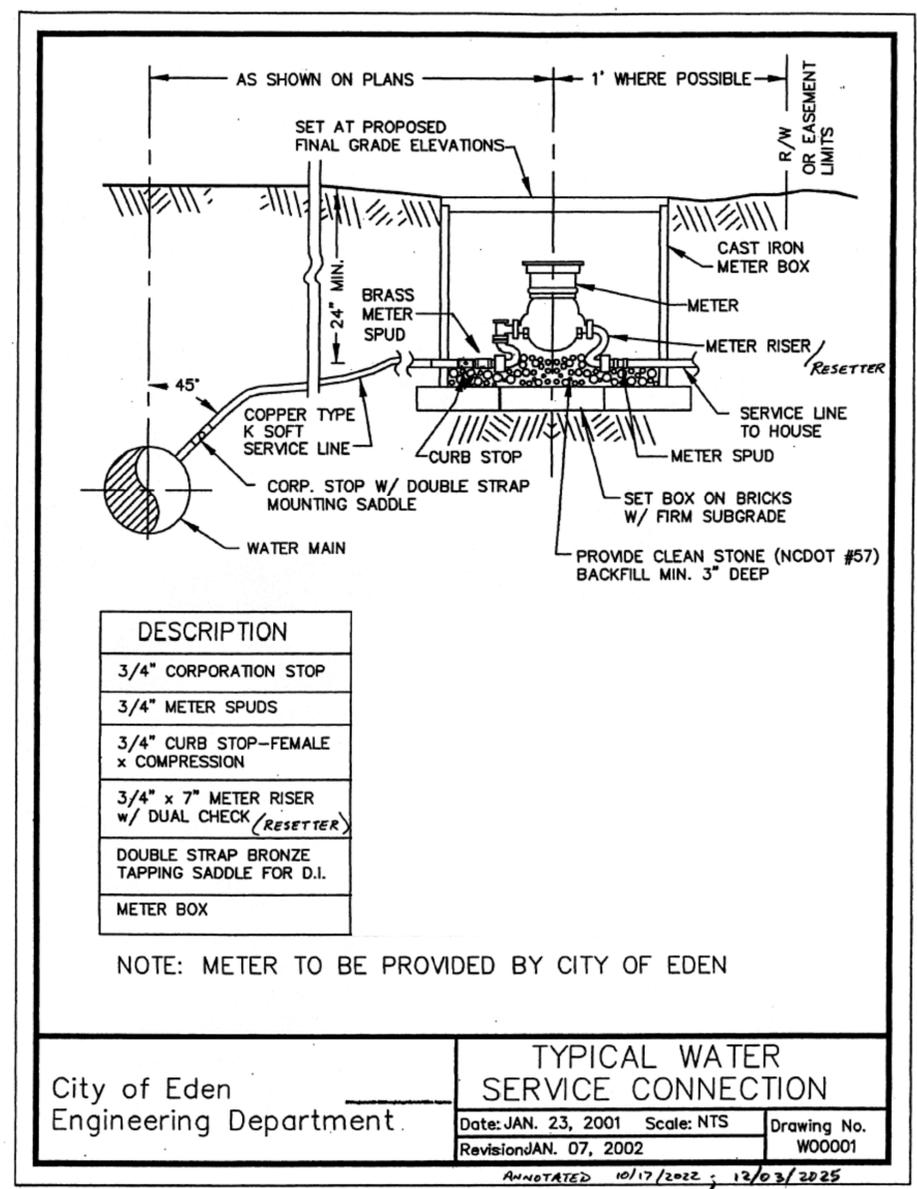
AMY DUPREE YORK CENTRAL REGION UTILITY MANAGER
ALI KOUCHEKI SENIOR UTILITY ENGINEER
JAMES B. YATES, PE DIVISION UTILITY ENGINEER
CODY LUNGRIN UTILITIES COORDINATOR

PROJECT TYPICAL DETAILS



MAXIMUM TRENCH WIDTH AT TOP OF PIPE

NOMINAL PIPE SIZE (INCHES)	TRENCH WIDTH (INCHES)	NOMINAL PIPE SIZE (INCHES)	TRENCH WIDTH (INCHES)
4	28	20	44
6	30	24	48
8	32	30	54
10	34	36	60
12	36	42	66
14	38	48	72
16	40	54	78
18	42		



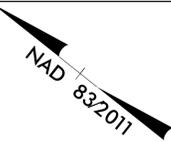
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- NOTES:**
- CONNECT PROPOSED DIP WATER LINE TO EXISTING WATER LINE USING NECESSARY FITTINGS AND TRANSITION COUPLINGS RECOMMENDED BY PIPE MANUFACTURER. CONTRACTOR TO SCHEDULE SHUT DOWN AND CONNECTION TO EXISTING WATER LINE WITH UTILITY OWNER. CONTRACTOR TO FIELD VERIFY EXISTING PIPE MATERIAL AND DEPTHS AT TIE-IN POINTS.
 - CONTRACTOR SHALL FIELD LOCATE EXISTING SANITARY SEWER CLEAN-OUTS. RE-CONNECT SEWER LATERALS TO PROPOSED SANITARY GRAVITY SEWER LINE AND ADD CLEAN-OUT IF ONE DOESN'T EXIST.

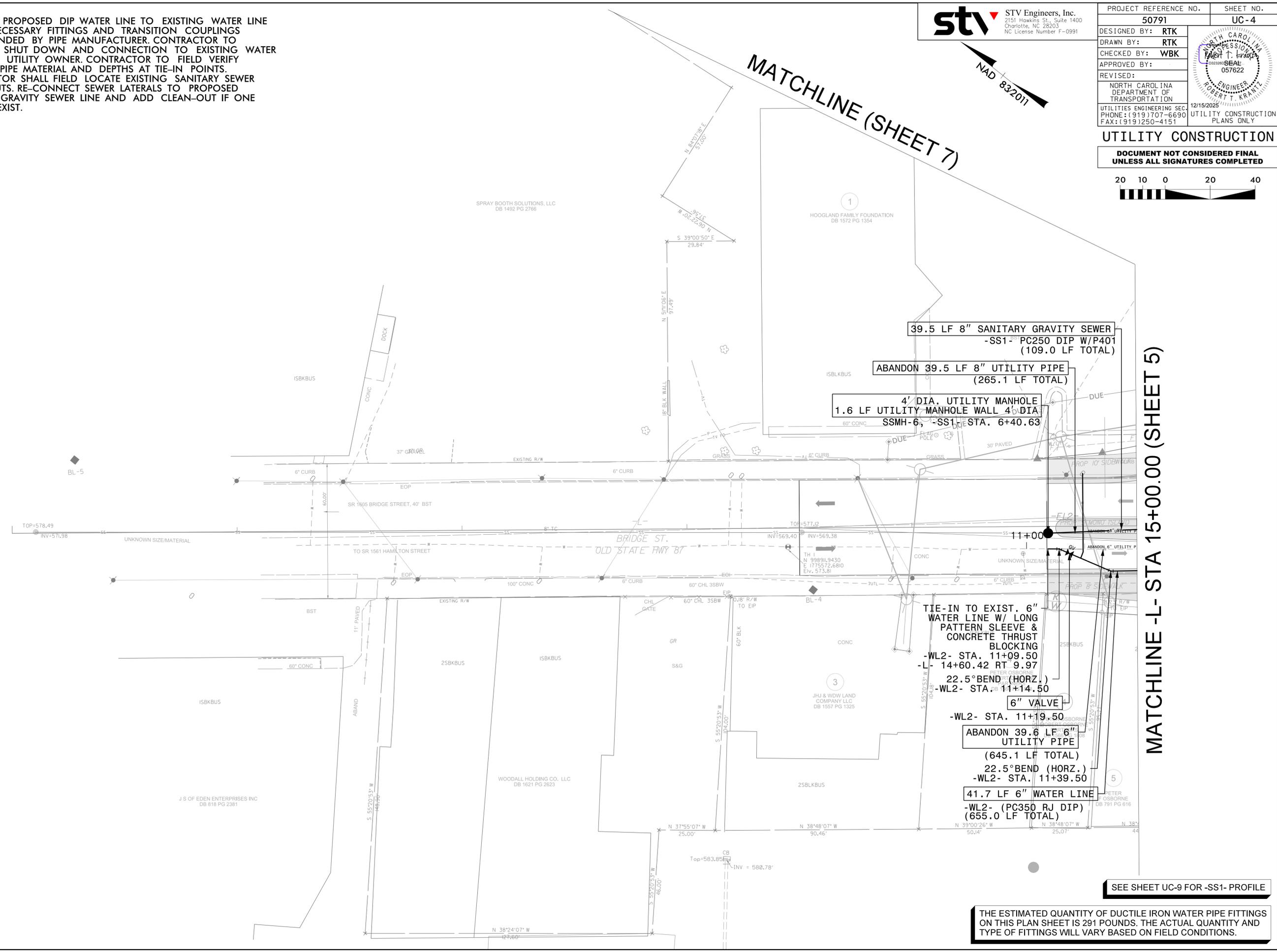


PROJECT REFERENCE NO.	50791	SHEET NO.	UC-4
DESIGNED BY:	RTK		
DRAWN BY:	RTK		
CHECKED BY:	WBK		
APPROVED BY:			
REVISED:		12/15/2025	UTILITY CONSTRUCTION PLANS ONLY
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UTILITY CONSTRUCTION

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SEE SHEET UC-9 FOR -SS1- PROFILE

THE ESTIMATED QUANTITY OF DUCTILE IRON WATER PIPE FITTINGS ON THIS PLAN SHEET IS 291 POUNDS. THE ACTUAL QUANTITY AND TYPE OF FITTINGS WILL VARY BASED ON FIELD CONDITIONS.

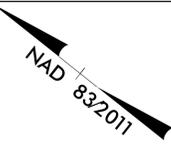
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- NOTES:**
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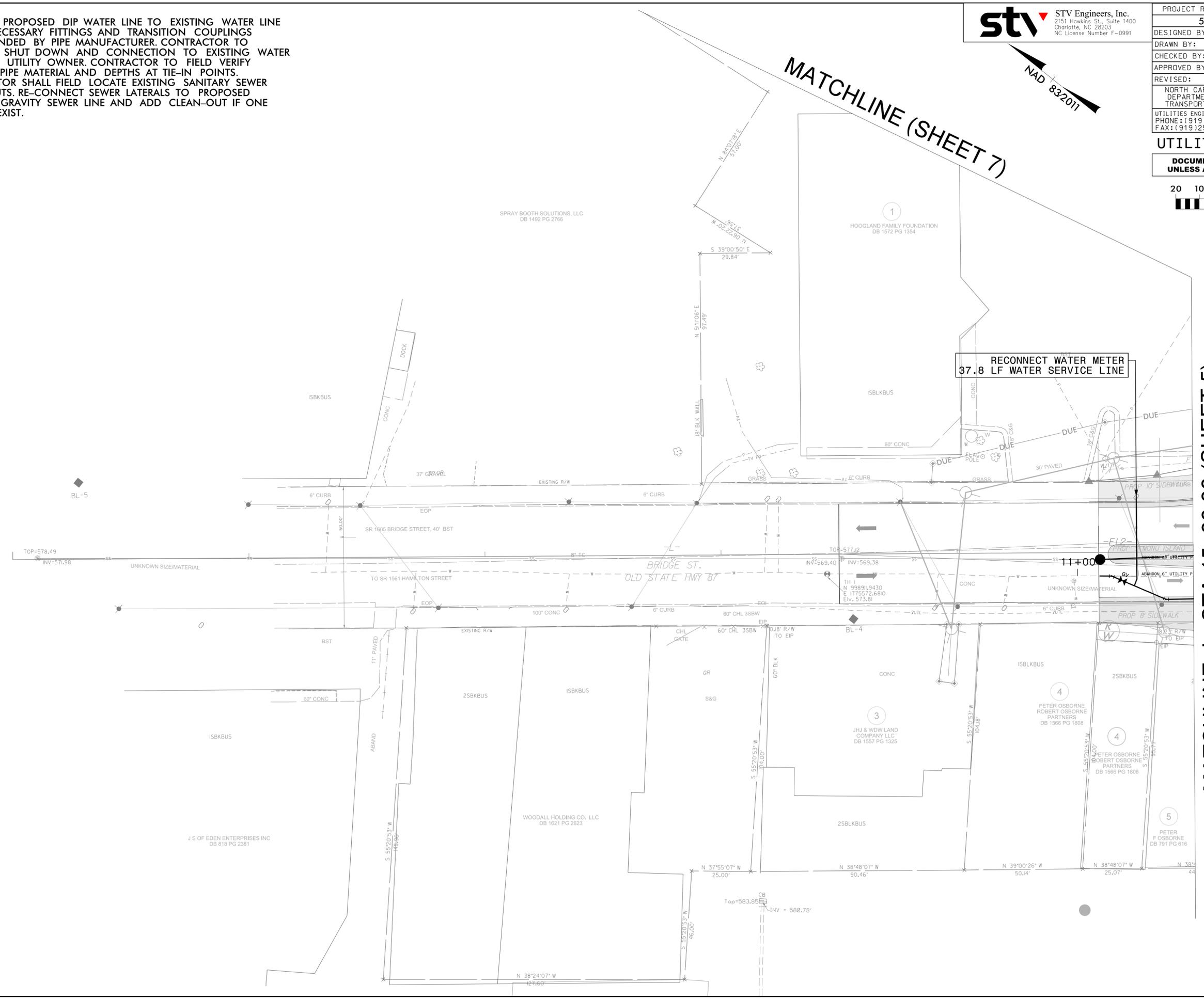


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DESIGNED BY:	RTK		
DRAWN BY:	RTK		
CHECKED BY:	WBK		
APPROVED BY:			
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NORTH CAROLINA DEPARTMENT OF TRANSPORTATION		12/15/2025	UTILITY CONSTRUCTION PLANS ONLY
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MATCHLINE -L- STA 15+00.00 (SHEET 5)

MATCHLINE (SHEET 7)

RECONNECT WATER METER
37.8 LF WATER SERVICE LINE

BL-5

BL-4

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STV STV Engineers, Inc.
2151 Hawkins St., Suite 1400
Charlotte, NC 28203
NC License Number F-0991

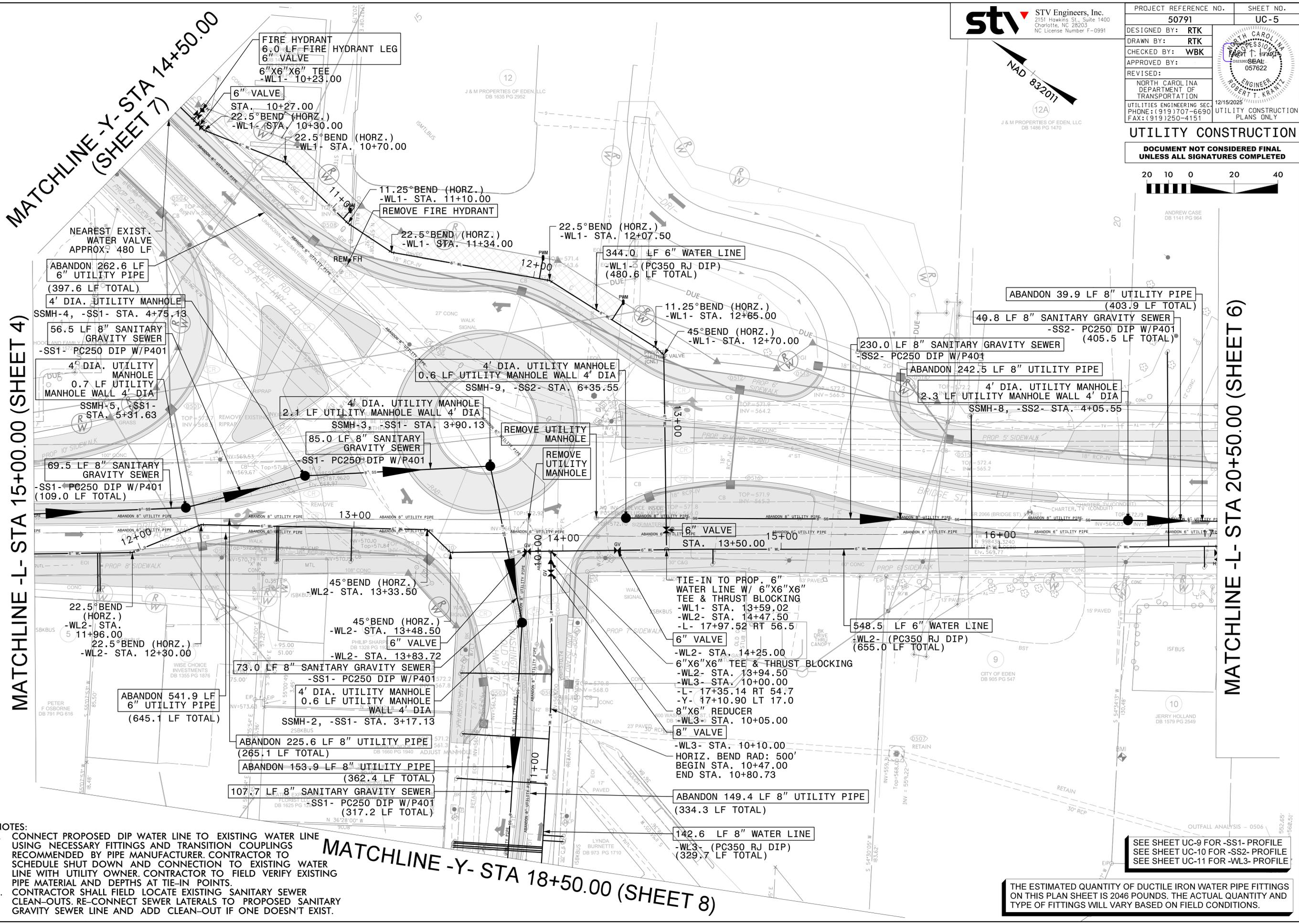
NAD 83/2011

J & M PROPERTIES OF EDEN, LLC
DB 1486 PG 1470

PROJECT REFERENCE NO.	50791	SHEET NO.	UC-5
DESIGNED BY:	RTK		
DRAWN BY:	RTK		
CHECKED BY:	WBK		
APPROVED BY:			
REVISED:			
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MATCHLINE -L- STA 15+00.00 (SHEET 4)

MATCHLINE -Y- STA 14+50.00 (SHEET 7)

MATCHLINE -Y- STA 18+50.00 (SHEET 8)

MATCHLINE -L- STA 20+50.00 (SHEET 6)

NOTES:

- CONNECT PROPOSED DIP WATER LINE TO EXISTING WATER LINE USING NECESSARY FITTINGS AND TRANSITION COUPLINGS RECOMMENDED BY PIPE MANUFACTURER. CONTRACTOR TO SCHEDULE SHUT DOWN AND CONNECTION TO EXISTING WATER LINE WITH UTILITY OWNER. CONTRACTOR TO FIELD VERIFY EXISTING PIPE MATERIAL AND DEPTHS AT TIE-IN POINTS.
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SEE SHEET UC-9 FOR -SS1- PROFILE
SEE SHEET UC-10 FOR -SS2- PROFILE
SEE SHEET UC-11 FOR -WL3- PROFILE

THE ESTIMATED QUANTITY OF DUCTILE IRON WATER PIPE FITTINGS ON THIS PLAN SHEET IS 2046 POUNDS. THE ACTUAL QUANTITY AND TYPE OF FITTINGS WILL VARY BASED ON FIELD CONDITIONS.

5/14/2025

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NOTES:

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 NC License Number F-0991

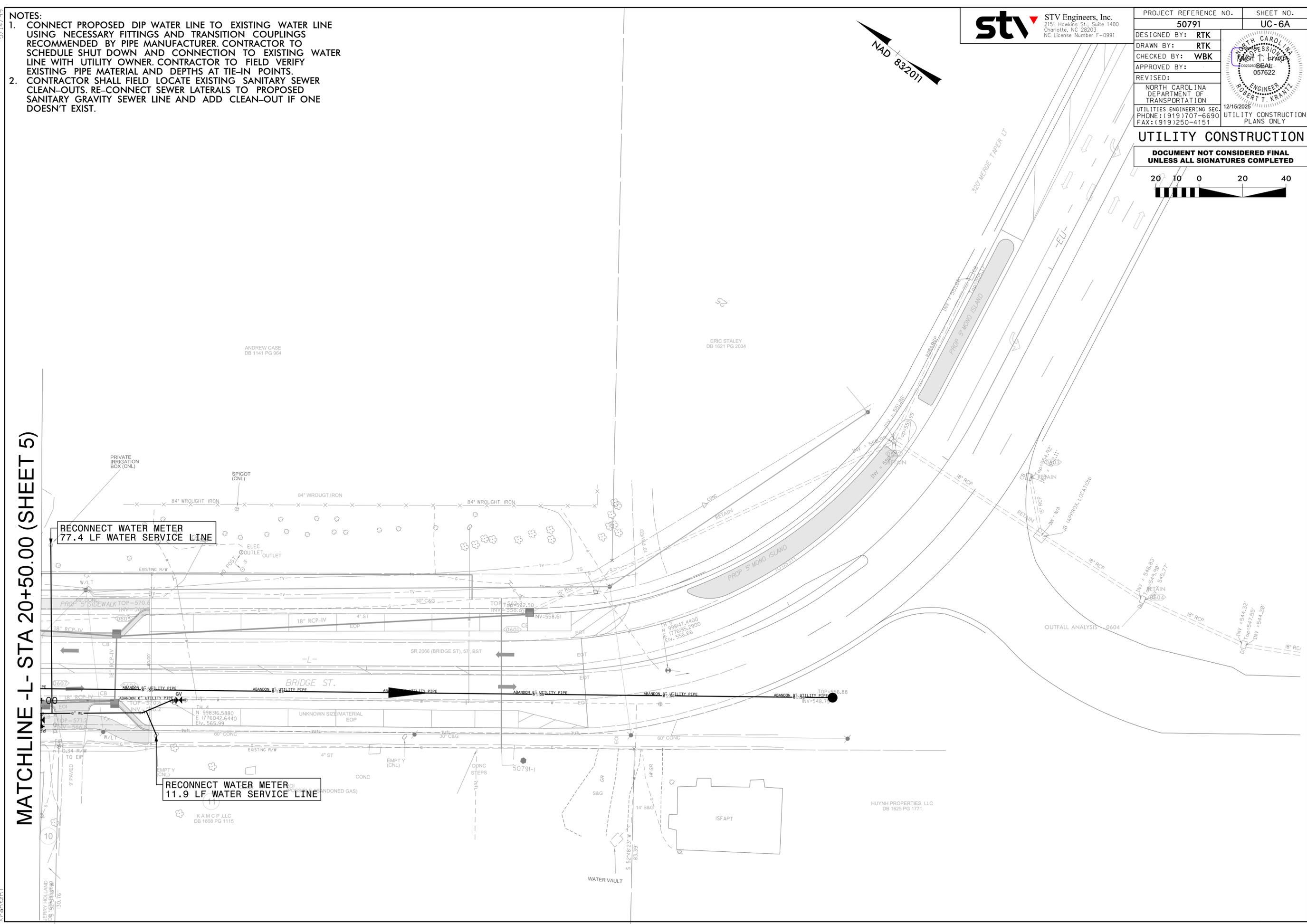
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DESIGNED BY:	RTK		
DRAWN BY:	RTK		
CHECKED BY:	WBK		
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MATCHLINE -L- STA 20+50.00 (SHEET 5)



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Krantz

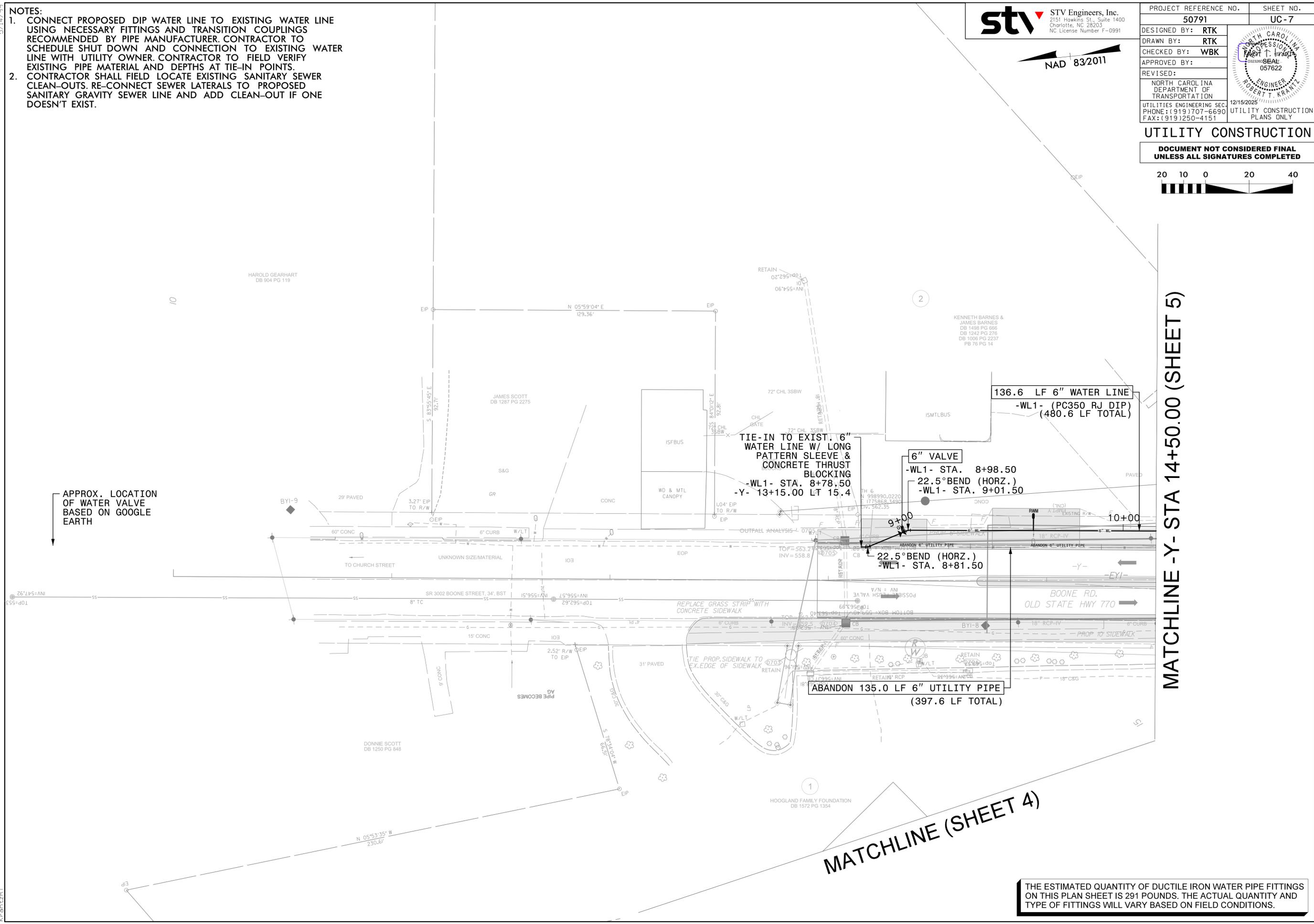
- NOTES:**
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PROJECT REFERENCE NO.	50791	SHEET NO.	UC-7
DESIGNED BY:	RTK		
DRAWN BY:	RTK		
CHECKED BY:	WBK		
APPROVED BY:			
REVISID:			
NORTH CAROLINA DEPARTMENT OF TRANSPORTATION		12/15/2025	
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UTILITY CONSTRUCTION

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APPROX. LOCATION OF WATER VALVE BASED ON GOOGLE EARTH

MATCHLINE (SHEET 4)

MATCHLINE -Y- STA 14+50.00 (SHEET 5)

THE ESTIMATED QUANTITY OF DUCTILE IRON WATER PIPE FITTINGS ON THIS PLAN SHEET IS 291 POUNDS. THE ACTUAL QUANTITY AND TYPE OF FITTINGS WILL VARY BASED ON FIELD CONDITIONS.

5/14/2025
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Krantz

- NOTES:
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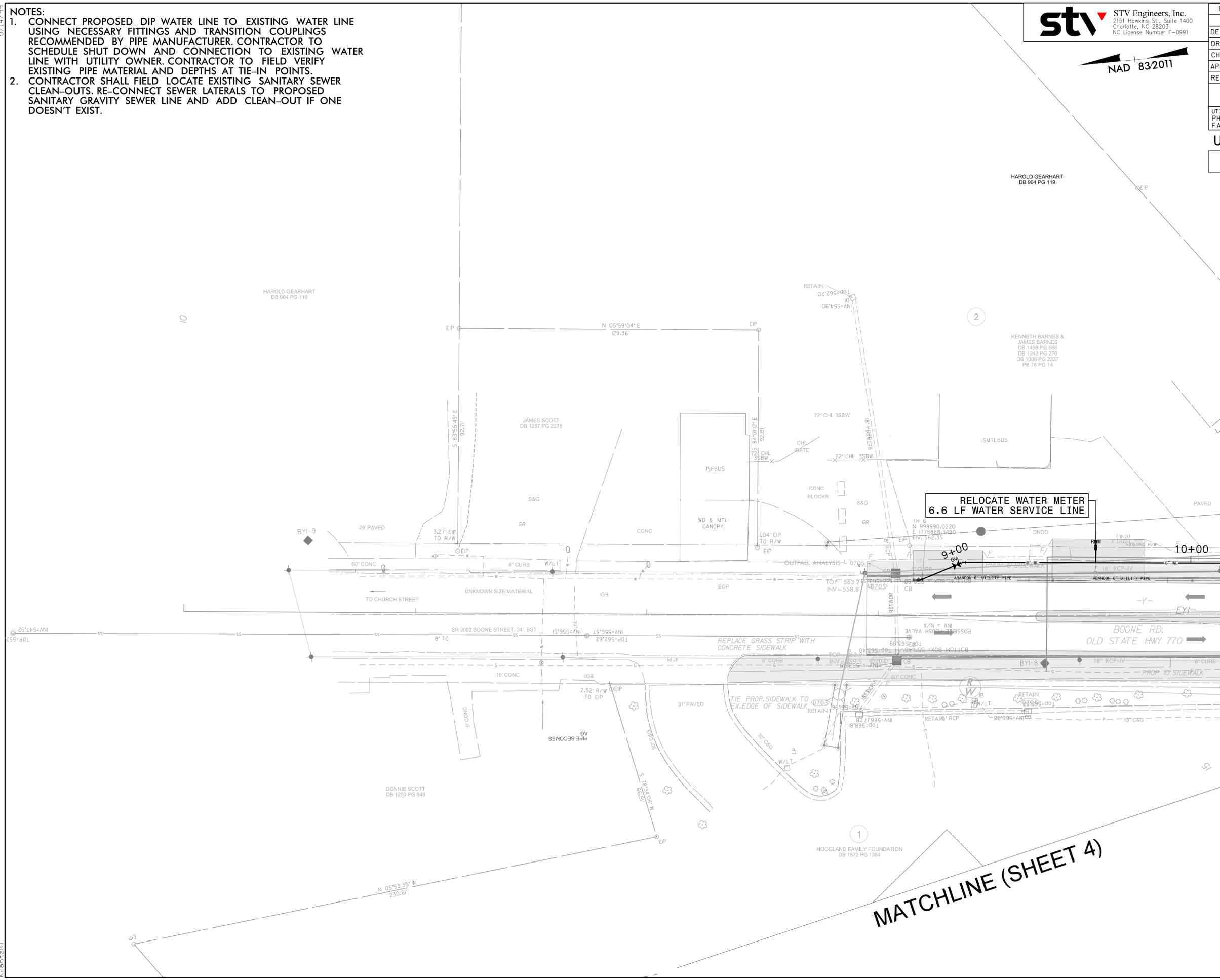


PROJECT REFERENCE NO.	SHEET NO.
50791	UC-7A
DESIGNED BY: RTK	
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NORTH CAROLINA DEPARTMENT OF TRANSPORTATION	12/15/2025
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MATCHLINE (SHEET 4)

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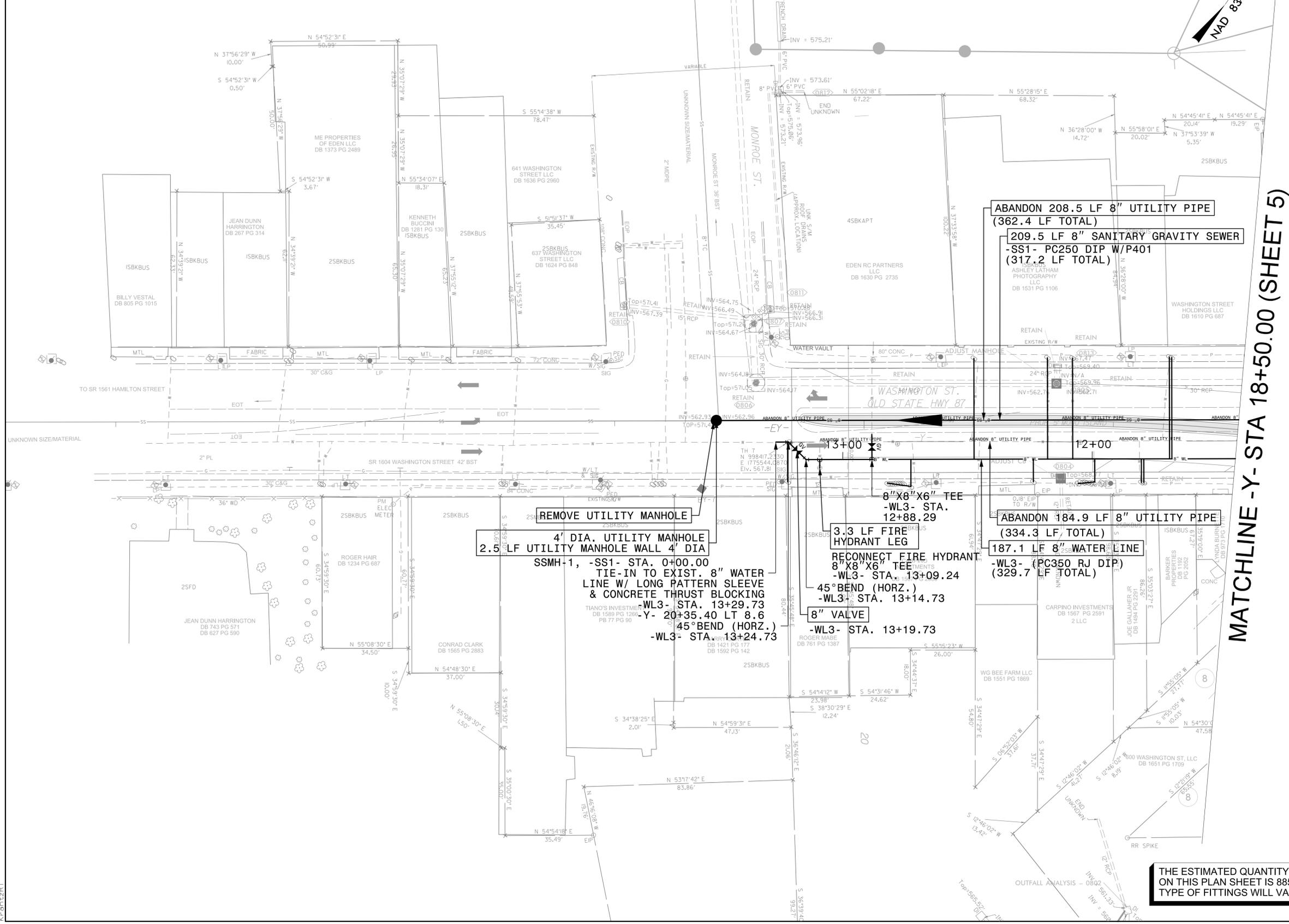
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PROJECT REFERENCE NO.	50791	SHEET NO.	UC-8
DESIGNED BY:	RTK		
DRAWN BY:	RTK		
CHECKED BY:	WBK		
APPROVED BY:			
REVISED:		12/15/2025	UTILITY CONSTRUCTION PLANS ONLY
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UTILITY CONSTRUCTION

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SEE SHEET UC-9 FOR -SS1- PROFILE
SEE SHEET UC-11 FOR -WL3- PROFILE

THE ESTIMATED QUANTITY OF DUCTILE IRON WATER PIPE FITTINGS ON THIS PLAN SHEET IS 885 POUNDS. THE ACTUAL QUANTITY AND TYPE OF FITTINGS WILL VARY BASED ON FIELD CONDITIONS.

5/28/99
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12/2/2025
Kraut

SCALE: 1" = 20' HORIZONTAL
1" = 4' VERTICAL

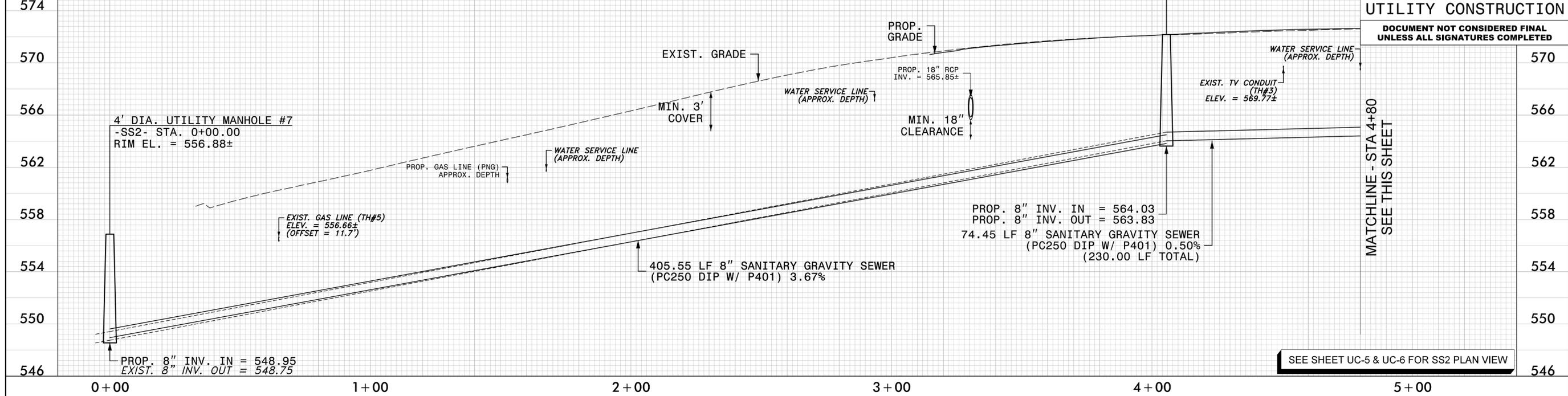
PROP. 8" SANITARY GRAVITY SEWER -SS2-

NOTES:
1. LOCATION AND DEPTHS OF EXISTING UTILITIES ARE APPROXIMATE. CONTRACTOR TO FIELD VERIFY LOCATIONS AND DEPTHS PRIOR TO WATER LINE CONSTRUCTION.



PROJECT REFERENCE NO.	50791	SHEET NO.	UC-10
DESIGNED BY:	RTK		
DRAWN BY:	RTK		
CHECKED BY:	WBK		
APPROVED BY:			
REVISED:			
NORTH CAROLINA DEPARTMENT OF TRANSPORTATION		12/15/2025	
UTILITIES ENGINEERING SEC. PHONE: (919) 707-6690 FAX: (919) 250-4151		UTILITY CONSTRUCTION PLANS ONLY	

4' DIA. UTILITY MANHOLE #8
-SS2- STA. 4+05.55
RIM EL. = 572.17±



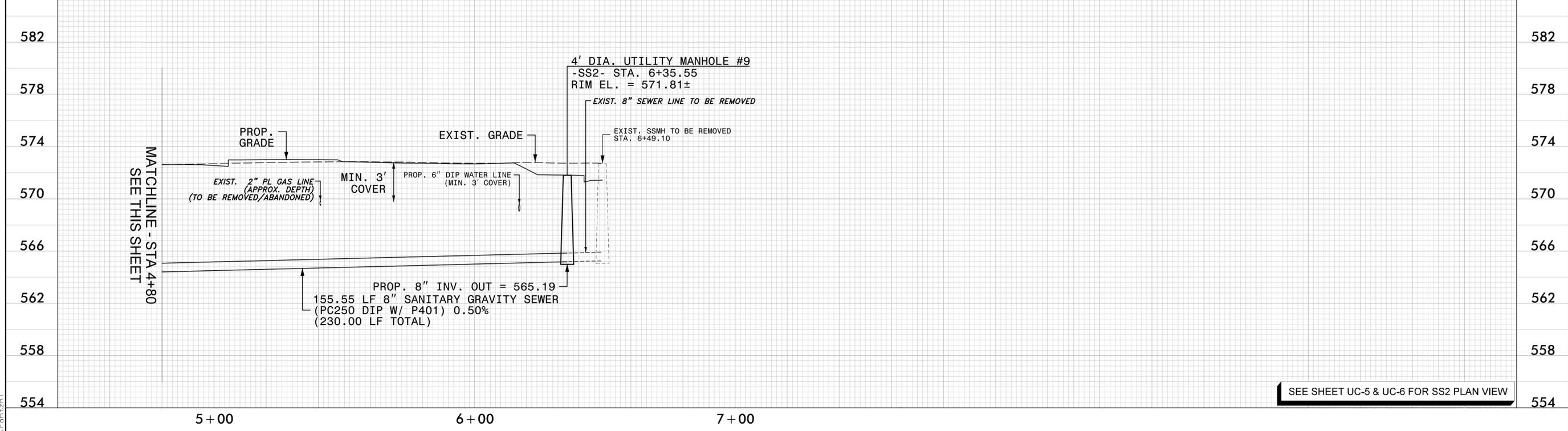
MATCHLINE - STA 4+80
SEE THIS SHEET

SEE SHEET UC-5 & UC-6 FOR SS2 PLAN VIEW

SCALE: 1" = 20' HORIZONTAL
1" = 4' VERTICAL

PROP. 8" SANITARY GRAVITY SEWER -SS2-

NOTES:
1. LOCATION AND DEPTHS OF EXISTING UTILITIES ARE APPROXIMATE. CONTRACTOR TO FIELD VERIFY LOCATIONS AND DEPTHS PRIOR TO WATER LINE CONSTRUCTION.



MATCHLINE - STA 4+80
SEE THIS SHEET

SEE SHEET UC-5 & UC-6 FOR SS2 PLAN VIEW

5/28/99

SCALE: 1" = 20' HORIZONTAL
1" = 4' VERTICAL

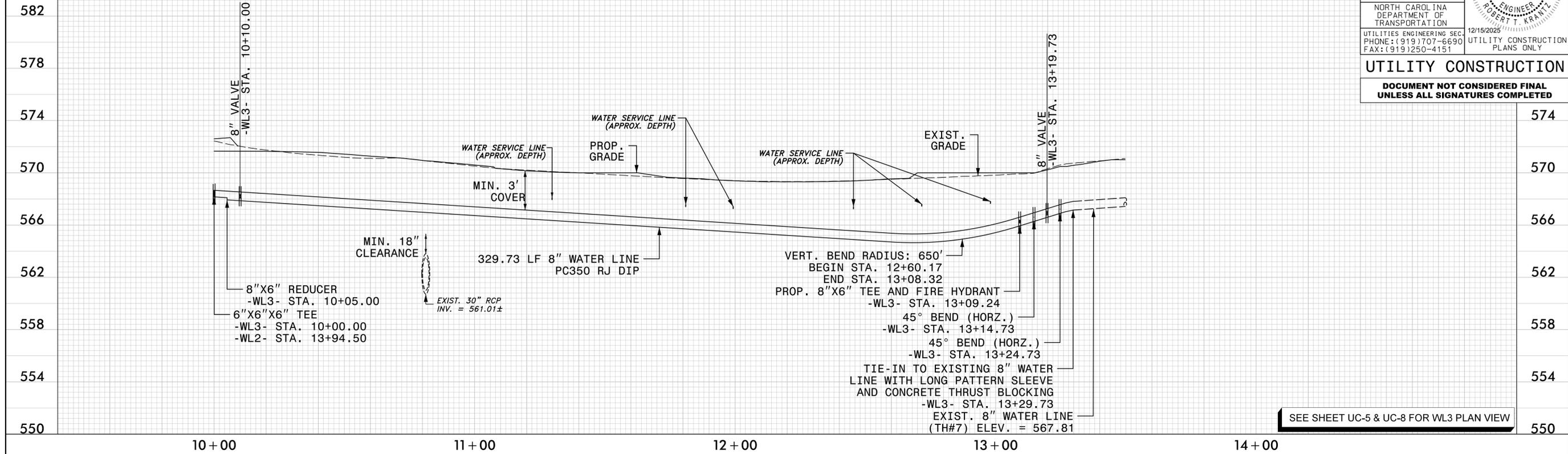
PROP. 8" WATER LINE -WL3-

NOTES:
1. LOCATION AND DEPTHS OF EXISTING UTILITIES ARE APPROXIMATE. CONTRACTOR TO FIELD VERIFY LOCATIONS AND DEPTHS PRIOR TO WATER LINE CONSTRUCTION.

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Charlotte, NC 28203
NC License Number F-0991

PROJECT REFERENCE NO.	SHEET NO.
50791	UC-11
DESIGNED BY: RTK	
DRAWN BY: RTK	
CHECKED BY: WBK	
APPROVED BY:	
REVISED:	
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UTILITIES ENGINEERING SEC. PHONE: (919) 707-6690 FAX: (919) 250-4151	12/15/2025 UTILITY CONSTRUCTION PLANS ONLY
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SEE SHEET UC-5 & UC-8 FOR WL3 PLAN VIEW

12/12/2025
Krafft

TIP PROJECT: 50791

CONTRACT: DG00685

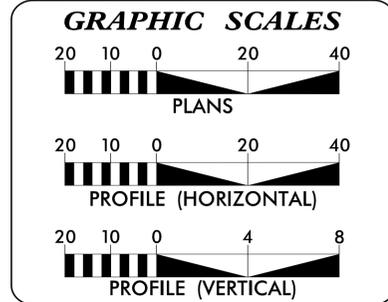
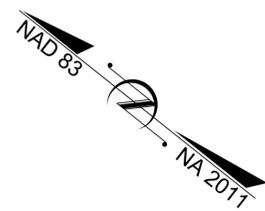
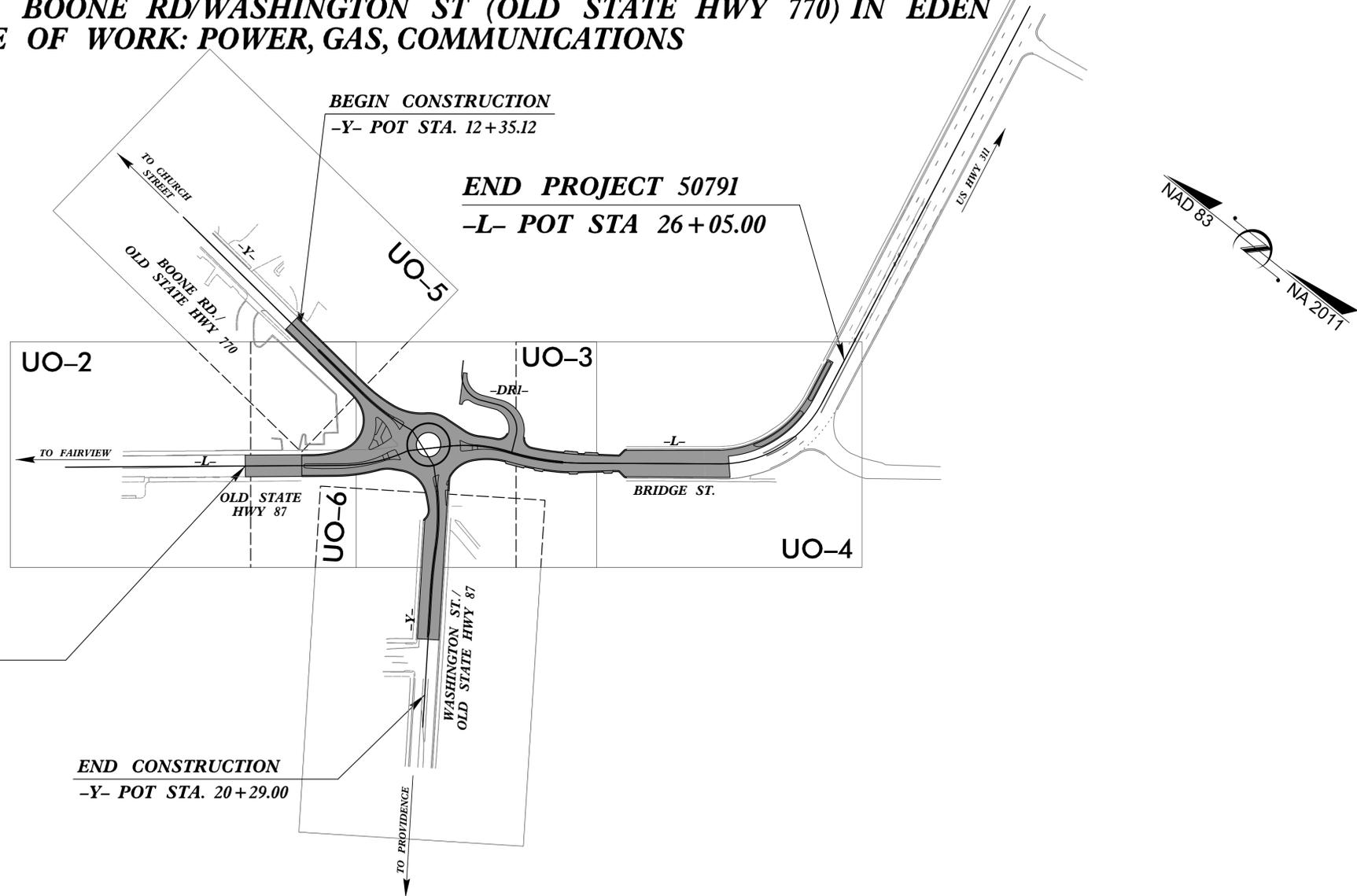
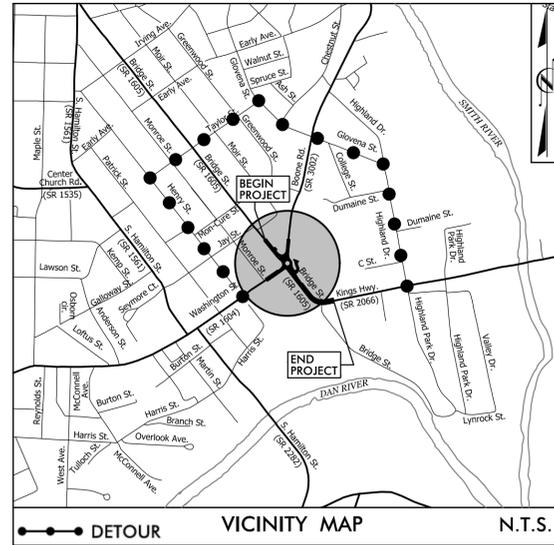
STATE OF NORTH CAROLINA
DIVISION OF HIGHWAYS

**UTILITIES BY OTHERS PLANS
ROCKINGHAM COUNTY**

**LOCATION: INTERSECTION OF BRIDGE ST/(OLD STATE HWY 87) AND
BOONE RD/WASHINGTON ST (OLD STATE HWY 770) IN EDEN
TYPE OF WORK: POWER, GAS, COMMUNICATIONS**

T.I.P. NO.	SHEET NO.
50791	UO-1

NOTE:
ALL UTILITY WORK SHOWN ON THIS SHEET WILL BE DONE BY OTHERS.
NO PAYMENT WILL BE MADE TO THE CONTRACTOR FOR UTILITY WORK SHOWN ON THIS SHEET.



INDEX OF SHEETS	
SHEET NO.:	DESCRIPTION:
UO-1	TITLE SHEET
UO-2	INDEX
UO-3 THRU UO-6	UBO PLAN SHEETS

UTILITY OWNERS WITH CONFLICTS
(A) POWER - DUKE ENERGY
(B) GAS - PNG
(C) COMMUNICATIONS - BRIGHTSPEED
(D) COMMUNICATIONS - CHARTER

PREPARED IN THE OFFICE OF:



STV Engineers, Inc.
2151 Hawkins St
Charlotte, NC 28203
NC License Number F-0991

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STATE OF NORTH CAROLINA DIVISION OF HIGHWAYS

UTILITIES PLAN SHEET SYMBOLS

PROPOSED WATER SYMBOLS

Water Line (Sized as Shown)	
11¼ Degree Bend	
22½ 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	
Water Meter	
Relocate Water Meter	
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 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	

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		Sanitary Sewer Cleanout	
End of Information			

*For Existing Utilities
 Utility Line Drawn from Record _____
 (Type as Shown)
 Designated Utility Line _____
 (Type as Shown)

5/14/98

PROJECT REFERENCE NO.	SHEET NO.
50791	U0-3
THIS SHEET CORRESPONDS TO RDY-4	

UTILITIES BY OTHERS

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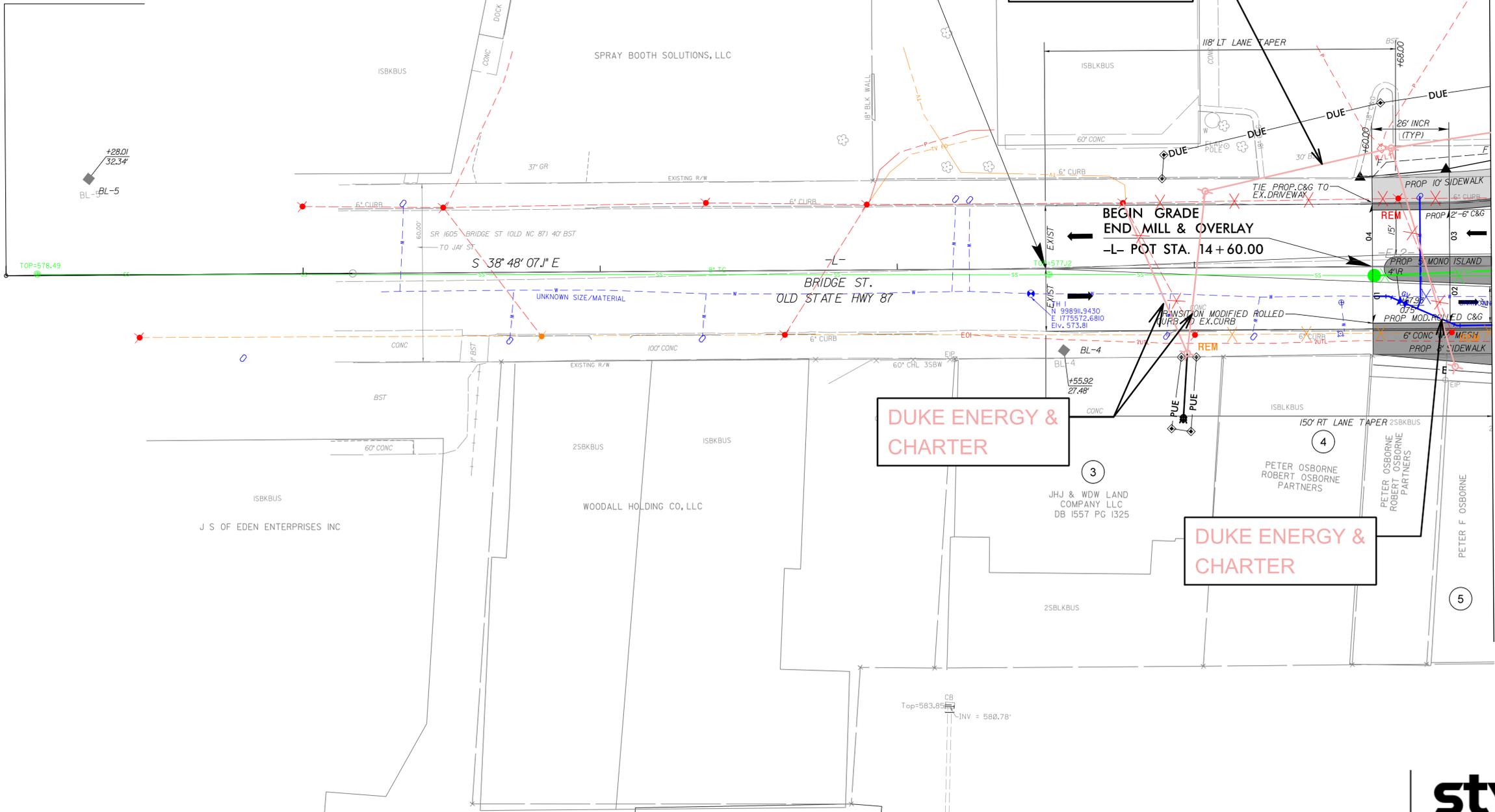
MATCHLINE (SHEET U0-6)

10

BEGIN PROJECT 50791
 BEGIN MILL & OVERLAY
 -L- POT STA 13+50.00

DUKE ENERGY &
 CHARTER

-L- POT Sta. 10+00.00



BEGIN GRADE
 END MILL & OVERLAY
 -L- POT STA. 14+60.00

DUKE ENERGY &
 CHARTER

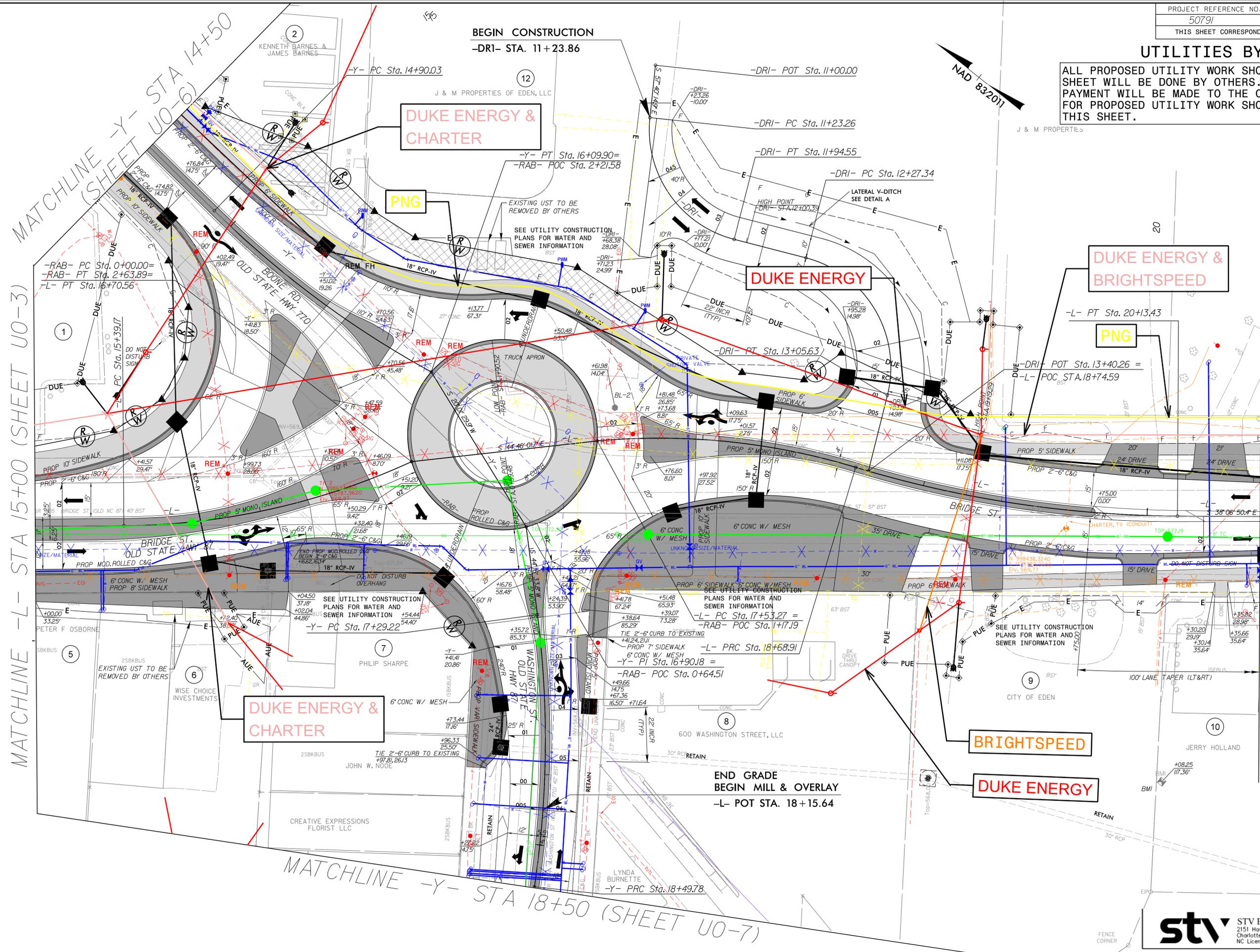
DUKE ENERGY &
 CHARTER

MATCHLINE -L- STA 15+00 (SHEET U0-4)

5/14/99
 12/23/2025
 Roundabout\Utilities\Utility Coordination\UBD_Sheets\H193565_ut_rdy4_U002_psh.dgn
 Submitals
 10/23/2025

UTILITIES BY OTHERS

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MATCHLINE -L- STA 15+00 (SHEET U0-3)

MATCHLINE -L- STA 20+50 (SHEET U0-5)

MATCHLINE -Y- STA 18+50 (SHEET U0-7)

5/14/99

12/23/2025 Utility Coordination UBO Sheets\H193565.ut_rdy5_U003.psh.dgn

UTILITIES BY OTHERS

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END PROJECT 50971
 END MILL & OVERLAY
 -L- POT STA 26+05.00 (LT)



MATCHLINE -L- STA 20+50 (SHEET U0-04)

5/14/99

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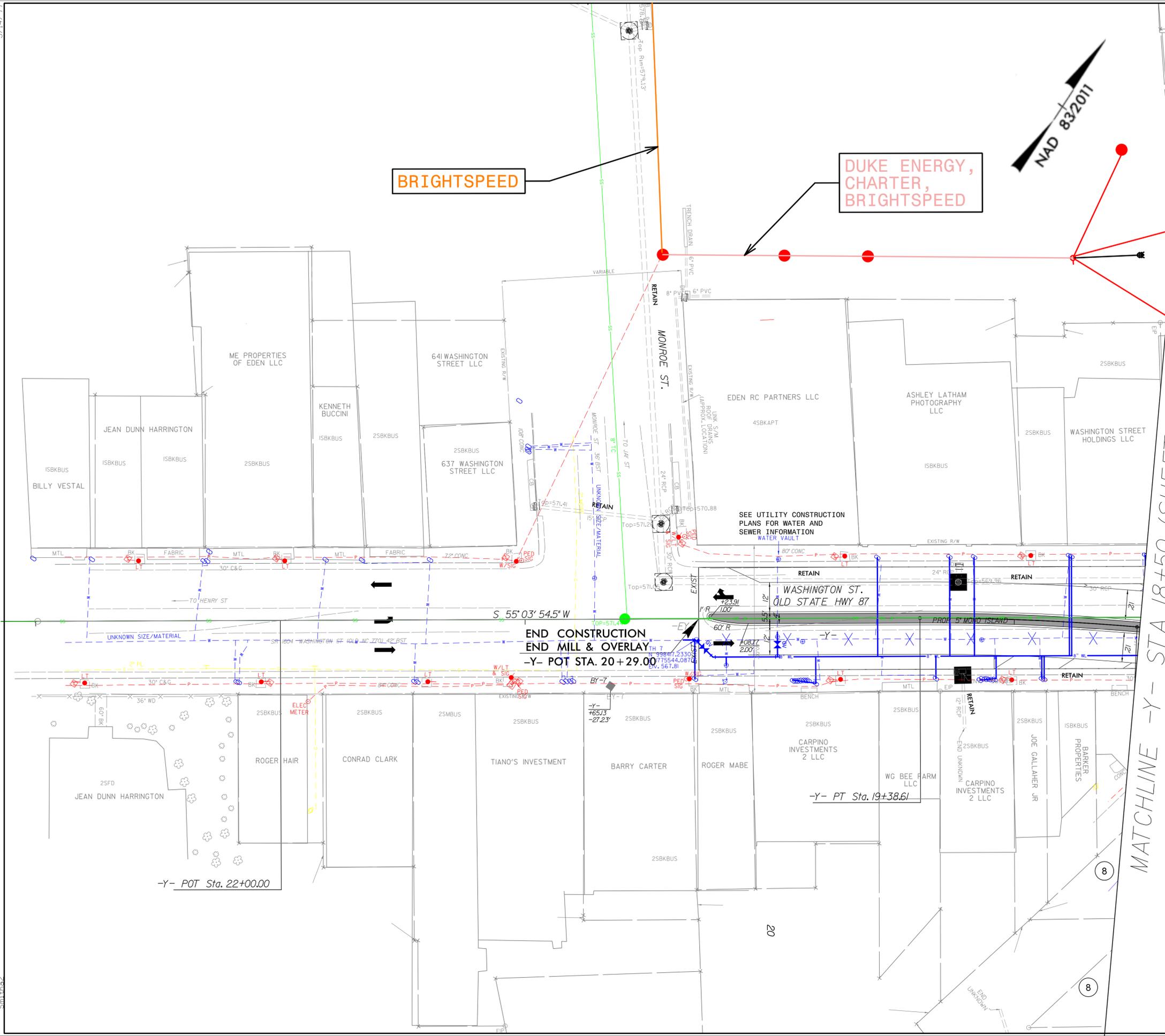
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BRIGHTSPEED

**DUKE ENERGY,
CHARTER,
BRIGHTSPEED**



MATCHLINE -Y- STA 18+50 (SHEET U0-4)

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