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SCALE 1" = 50'

0 50 100 150 200

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PROJECT REFERENCE NO.	SHEET NO.
U-4714BA	UC-25
DESIGNED BY: RTK	
DRAWN BY: RTK	
CHECKED BY: DKP	
APPROVED BY:	
REVISED:	

NORTH CAROLINA DEPARTMENT OF TRANSPORTATION

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

Signed by: WILLIAM KEATON
SEAL 045626
ENGINEER
WILLIAM B. KEATON
10/1/2026

UTILITY CONSTRUCTION PLANS ONLY

UTILITY CONSTRUCTION

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

30 LF WATER SERVICE LINE
(15 LF EACH)

ABANDON 105 LF 2" UTILITY PIPE

ABANDON 17 LF 8" UTILITY PIPE

REMOVE UTILITY MANHOLE

ABANDON 39 LF 8" UTILITY PIPE

REMOVE FIRE HYDRANT

ABANDON 198 LF 8" UTILITY PIPE

SANITARY SEWER CLEAN-OUT
17 LF 4" GRAVITY SANITARY SEWER

ADJUSTMENT OF MANHOLE
PLUG AND ABANDON EXIST. SS LATERAL AND REMOVE EXIST. CLEAN-OUT

REMOVE FIRE HYDRANT

SANITARY SEWER CLEAN-OUT
7 LF 4" GRAVITY SANITARY SEWER

ABANDON 1399 LF 6" UTILITY PIPE
5223 LF TOTAL

SANITARY SEWER CLEAN-OUT
7 LF 4" GRAVITY SANITARY SEWER

ADJUSTMENT OF MANHOLE

SANITARY SEWER CLEAN-OUT
60 LF 4" GRAVITY SANITARY SEWER

5 LF WATER SERVICE LINE

SANITARY SEWER CLEAN-OUT
70 LF 4" GRAVITY SANITARY SEWER

20 LF WATER SERVICE LINE

ABANDON 236 LF 8" UTILITY PIPE
426 LF TOTAL

ABANDON UTILITY MANHOLE

ABANDON 264 LF 8" UTILITY PIPE

PLUG

PLUG

3-PLUGS

2-PLUGS

PLUG

11 LF WATER SERVICE LINE

124 LF WATER SERVICE LINE

11 LF WATER SERVICE LINE

13 LF WATER SERVICE LINE

ABANDON 85 LF 8" UTILITY PIPE

SANITARY SEWER CLEAN-OUT
53 LF 4" GRAVITY SANITARY SEWER

ABANDON 554 LF 8" UTILITY PIPE

SANITARY SEWER CLEAN-OUT
11 LF 4" GRAVITY SANITARY SEWER

SANITARY SEWER CLEAN-OUT
38 LF 4" GRAVITY SANITARY SEWER

ADJUSTMENT OF MANHOLE

PLUG

ABANDON 271 LF 4" UTILITY PIPE

CONTRACTOR TO FIELD LOCATE EXIST. 4" SANITARY SEWER (APPROX. LOCATION SHOWN)

54 LF WATER SERVICE LINE

PLUG

ABANDON 324 LF 6" UTILITY PIPE

PLUG AND ABANDON EXIST. SS LATERAL AND REMOVE EXIST. CLEAN-OUT

138 LF WATER SERVICE LINE

SANITARY SEWER CLEAN-OUT
62 LF 4" GRAVITY SANITARY SEWER

244 LF WATER SERVICE LINE

SANITARY SEWER CLEAN-OUT
73 LF 4" GRAVITY SANITARY SEWER

MATCHLINE - SEE SHEET UC-24

MATCHLINE - SEE SHEET UC-26

SEE SHEET UC-7 FOR CORRESPONDING PROPOSED UTILITY NOTES

10/1/2026
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SEE SHEET UC-8 FOR CORRESPONDING PROPOSED UTILITY NOTES

SCALE 1" = 50'

0 50 100 150 200

NAD 83/NA 2011

ABANDON UTILITY MANHOLE

SANITARY SEWER CLEAN-OUT
15 LF 4" GRAVITY SANITARY SEWER

ABANDON 329 LF 8" UTILITY PIPE

9 LF WATER SERVICE LINE

ABANDON 403 LF 6" UTILITY PIPE
5223 LF TOTAL

ABANDON UTILITY MANHOLE

ABANDON 191 LF 8" UTILITY PIPE
426 LF TOTAL

SANITARY SEWER CLEAN-OUT
53 LF 4" GRAVITY SANITARY SEWER

ADJUSTMENT OF MANHOLE

130 LF WATER SERVICE LINE

PLUG

PLUG

ABANDON 180 LF 6" UTILITY PIPE

10 LF WATER SERVICE LINE

125 LF WATER SERVICE LINE
1" COPPER SERVICE

REMOVE FIRE HYDRANT

15 LF WATER SERVICE LINE
3/4" SERVICE

15 LF WATER SERVICE LINE
1" SERVICE

2" CORP. STOP W/ TAPPING SADDLE

2" VALVE

ABANDON 890 LF 8" UTILITY PIPE
2682 LF TOTAL

2" CORP. STOP W/ TAPPING SADDLE

2" VALVE

MATCHLINE - SEE SHEET UC-25

MATCHLINE - SEE SHEET UC-27

SANITARY SEWER CLEAN-OUT
81 LF 4" GRAVITY SANITARY SEWER

ADJUSTMENT OF MANHOLE

TRAFFIC BEARING

112 LF WATER SERVICE LINE
1" COPPER SERVICE

4 LF WATER SERVICE LINE
3/4" SERVICE

4 LF WATER SERVICE LINE
3/4" SERVICE

176 LF 2" WATER SERVICE LINE
COPPER SERVICE

116 LF WATER SERVICE LINE
1" COPPER SERVICE

SANITARY SEWER CLEAN-OUT
42 LF 4" GRAVITY SANITARY SEWER

95 LF WATER SERVICE LINE

ABANDON 189 LF 8" UTILITY PIPE
395 LF TOTAL

SANITARY SEWER CLEAN-OUT
27 LF 4" GRAVITY SANITARY SEWER

117 LF 2" WATER SERVICE LINE
COPPER SERVICE

REMOVE UTILITY MANHOLE

ABANDON 330 LF 8" UTILITY PIPE

MATCHLINE – SEE SHEET UC-38

PROJECT REFERENCE NO.	SHEET NO.
U-4714BA	UC-26
DESIGNED BY: RTK	
DRAWN BY: RTK	
CHECKED BY: DKP	
APPROVED BY:	
REVISED:	

NORTH CAROLINA DEPARTMENT OF TRANSPORTATION

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

Signed by: NORTH CAROLINA UTILITIES SECTION
3FA4F0E0035144...
SEAL 045626 ENGINEER WILLIAM B. KEATON
10/1/2026

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UTILITY CONSTRUCTION

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Charlotte, NC 28203
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SCALE 1" = 50'

0 50 100 150 200

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PROJECT REFERENCE NO.	SHEET NO.
U-4714BA	UC-27
DESIGNED BY: RTK	
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REVISED:	

NORTH CAROLINA DEPARTMENT OF TRANSPORTATION

UTILITIES ENGINEERING SEC.
PHONE:(919)707-6690
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Signed by: NORTH CAROLINA UTILITIES SECTION
SEAL 045626 ENGINEER WILLIAM B. KEATON
10/1/2026

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2151 Hawkins Street, Suite 1400
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NC License Number F-0991

MATCHLINE - SEE SHEET UC-26

MATCHLINE - SEE SHEET UC-28

20 LF WATER SERVICE LINE
3/4" SERVICE

8 LF WATER SERVICE LINE
3/4" SERVICE

ABANDON 13 LF 6" UTILITY PIPE

ABANDON 57 LF 6" UTILITY PIPE

ABANDON 29 LF 6" UTILITY PIPE

ABANDON 1400 LF 8" UTILITY PIPE
2682 LF TOTAL

229 LF WATER SERVICE LINE
3/4" SERVICE

9 LF 2" WATER SERVICE LINE

REMOVE FIRE HYDRANT

7 LF 1" COPPER WATER SERVICE LINE

14 LF WATER SERVICE LINE

7 LF WATER SERVICE LINE
3/4" SERVICE

156 LF WATER SERVICE LINE
1" COPPER SERVICE

ABANDON 127 LF 8" UTILITY PIPE

ABANDON UTILITY MANHOLE

PLUG

ABANDON 70 LF 6" UTILITY PIPE

ABANDON 398 LF 8" UTILITY PIPE

28 LF 4" GRAVITY SANITARY SEWER
RECONNECT SANITARY SEWER CLEAN-OUT

ABANDON UTILITY MANHOLE

ABANDON 300 LF 8" UTILITY PIPE

20 LF WATER SERVICE LINE

RELOCATE FIRE HYDRANT

REMOVE FIRE HYDRANT

2-SANITARY SEWER CLEAN-OUT
87 LF 6" GRAVITY SANITARY SEWER

ABANDON UTILITY MANHOLE

PLUG

2-REMOVE SANITARY CLEAN-OUT

3-PLUGS

ABANDON 230 LF 8" UTILITY PIPE
401 LF TOTAL

ABANDON UTILITY MANHOLE

ABANDON 264 LF 8" UTILITY PIPE

SANITARY SEWER CLEAN-OUT
26 LF 4" GRAVITY SANITARY SEWER

114 LF WATER SERVICE LINE
1" COPPER SERVICE

ABANDON 206 LF 8" UTILITY PIPE
395 LF TOTAL

SEE SHEET UC-9 FOR CORRESPONDING PROPOSED UTILITY NOTES

10/1/2026
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SCALE 1" = 50'

0 50 100 150 200

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PROJECT REFERENCE NO.	SHEET NO.
U-4714BA	UC-28
DESIGNED BY: RTK	
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APPROVED BY:	
REVISED:	

NORTH CAROLINA DEPARTMENT OF TRANSPORTATION

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

Signed by: WILLIAM KEATON
3FA8F0C0351441C...
NORTH CAROLINA
SEAL 045626
ENGINEER
WILLIAM B. KEATON
10/1/2026

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NC License Number F-0991

MATCHLINE - SEE SHEET UC-27

ABANDON 467 LF 8" UTILITY PIPE

ABANDON 231 LF 12" UTILITY PIPE

PLUG

ABANDON 384 LF 6" UTILITY PIPE

REMOVE FIRE HYDRANT
CLOSE VALVE
REMOVE VALVE BOX

ABANDON 392 LF 8" UTILITY PIPE
2682 LF TOTAL

PLUG

REMOVE WATER METER

66 LF WATER SERVICE LINE

ABANDON 65 LF 8" UTILITY PIPE
APPROX. LENGTH. CONTRACTOR TO FIELD LOCATE

ABANDON UTILITY MANHOLE
APPROX. LOCATION. CONTRACTOR TO FIELD LOCATE

ABANDON 33 LF 8" UTILITY PIPE
APPROX. LENGTH. CONTRACTOR TO FIELD LOCATE

ABANDON UTILITY MANHOLE
APPROX. LOCATION. CONTRACTOR TO FIELD LOCATE

ABANDON 67 LF 8" UTILITY PIPE
APPROX. LENGTH. CONTRACTOR TO FIELD LOCATE

ABANDON 72 LF 8" UTILITY PIPE

ABANDON UTILITY MANHOLE

ABANDON 15 LF 8" UTILITY PIPE

ABANDON UTILITY MANHOLE

ABANDON 218 LF 8" UTILITY PIPE

ABANDON 171 LF 8" UTILITY PIPE
401 LF TOTAL

IF INSTALLED BY OTHERS, COORDINATE WITH UNION COUNTY FIELD REPRESENTATIVE.

END CONSTRUCTION TIP PROJECT U-4714BA
-L- POT STA. 85+85.86
-LBA- POT STA. 17+74.95

CL-B RIP RAP
EST. 8 TONS
21 S.Y. GEOTEXTILE

CL-B RIP RAP
EST. 5 TONS
14 S.Y. GEOTEXTILE

REFERENCE MADE TO THIS DEED BUT NO DESCRIPTION FOUND

SEE SHEET UC-10 FOR CORRESPONDING PROPOSED UTILITY NOTES

10/1/2026
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SCALE 1" = 50'

0 50 100 150 200

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PROJECT REFERENCE NO.	SHEET NO.
U-4714BA	UC-38
DESIGNED BY: RTK	
DRAWN BY: RTK	
CHECKED BY: DKP	
APPROVED BY:	
REVISED:	

NORTH CAROLINA DEPARTMENT OF TRANSPORTATION

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

Signed by: CAROLINA WILLIAM B. KEATON 3FA4F0C0035144C...
SEAL 045626 ENGINEER WILLIAM B. KEATON
10/1/2026

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Charlotte, NC 28203
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PLUG

5 LF WATER SERVICE LINE
3/4" SERVICE

10 LF WATER SERVICE LINE
3/4" SERVICE

2" CORP. STOP W/ TAPPING SADDLE

2" VALVE

MATCHLINE - SEE SHEET UC-26

PLUG

71 LF WATER SERVICE LINE
3/4" SERVICE

77 LF WATER SERVICE LINE
3/4" SERVICE

ABANDON 55 LF 2" UTILITY PIPE

ABANDON 525 LF 8" UTILITY PIPE

REMOVE FIRE HYDRANT

93 LF 2" COPPER WATER SERVICE LINE

ABANDON 54 LF 8" UTILITY PIPE

ADJUSTMENT OF MANHOLE

65 LF WATER SERVICE LINE

SEE SHEET UC-11 FOR CORRESPONDING PROPOSED UTILITY NOTES

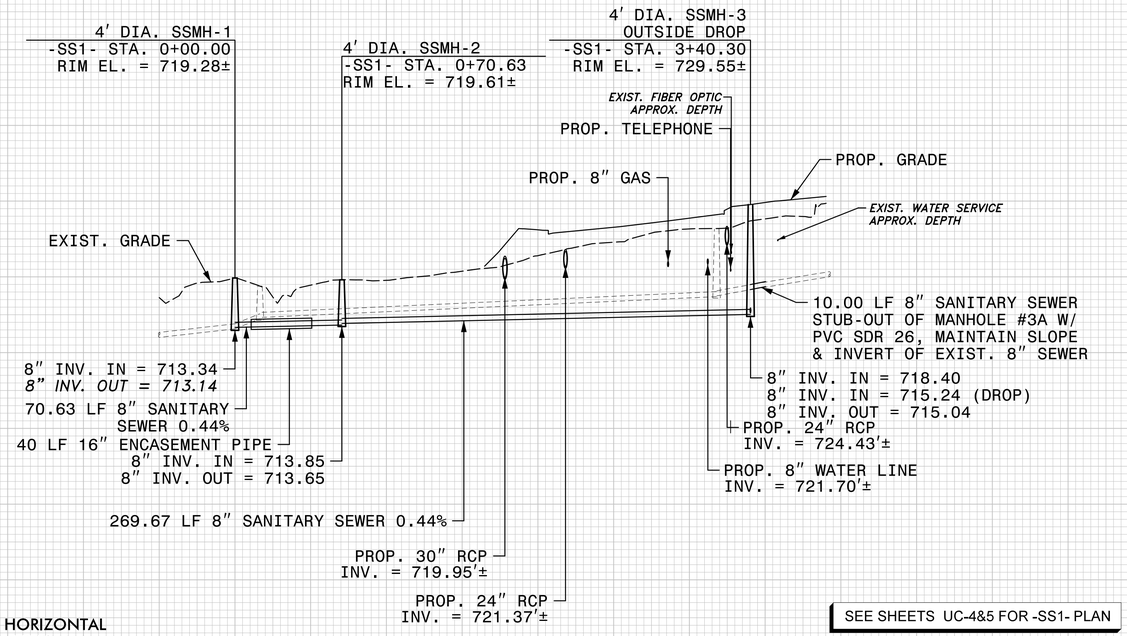
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jbaker

Docusign Envelope ID: 0562D33A-00E9-83FD-83DF-A9B7DD17E0E3

5/28/99

NOTES:
1. MAINTAIN MINIMUM PIPE SEPARATION OF 18″ VERTICAL BETWEEN WATER MAINS OVER SEWER MAINS. SEE PROJECT SPECIFIC NOTE 9, SHEET UC-3.

PROP. 8" SANITARY SEWER -SS1- OLD MONROE ROAD



SCALE: 1″ = 50′ HORIZONTAL
1″ = 10′ VERTICAL

SEE SHEETS UC-4&5 FOR -SS1- PLAN

PROJECT REFERENCE NO.	SHEET NO.
U-4714BA	UC-40
DESIGNED BY: RTK	
DRAWN BY: RTK	
CHECKED BY: DKP	
APPROVED BY:	
REVISED:	

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

Signature NORTH CAROLINA Registered Professional Engineer WILLIAM B. KEATON SEAL 045626 ENGINEER
9/16/2026
UTILITY CONSTRUCTION PLANS ONLY

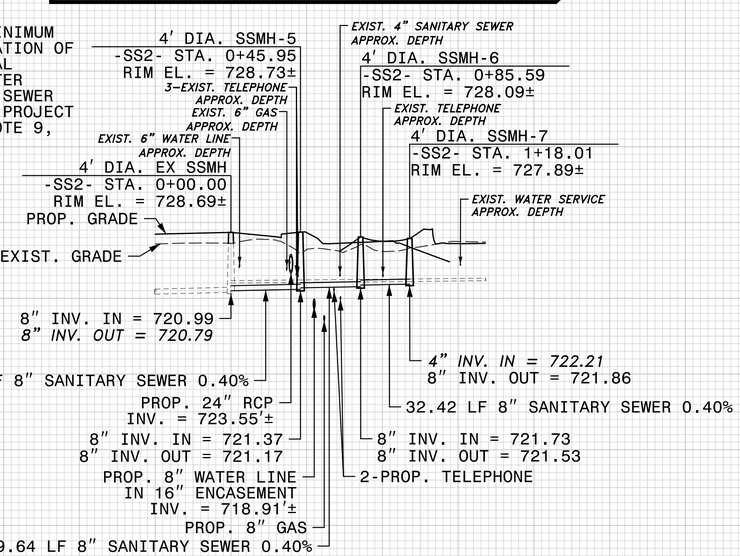
UTILITY CONSTRUCTION

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Charlotte, NC 28203
NC License Number F-0991

PROP. 8" SANITARY SEWER -SS2- OLD MONROE ROAD

NOTES:
1. MAINTAIN MINIMUM PIPE SEPARATION OF 18″ VERTICAL BETWEEN WATER MAINS OVER SEWER MAINS. SEE PROJECT SPECIFIC NOTE 9, SHEET UC-3.

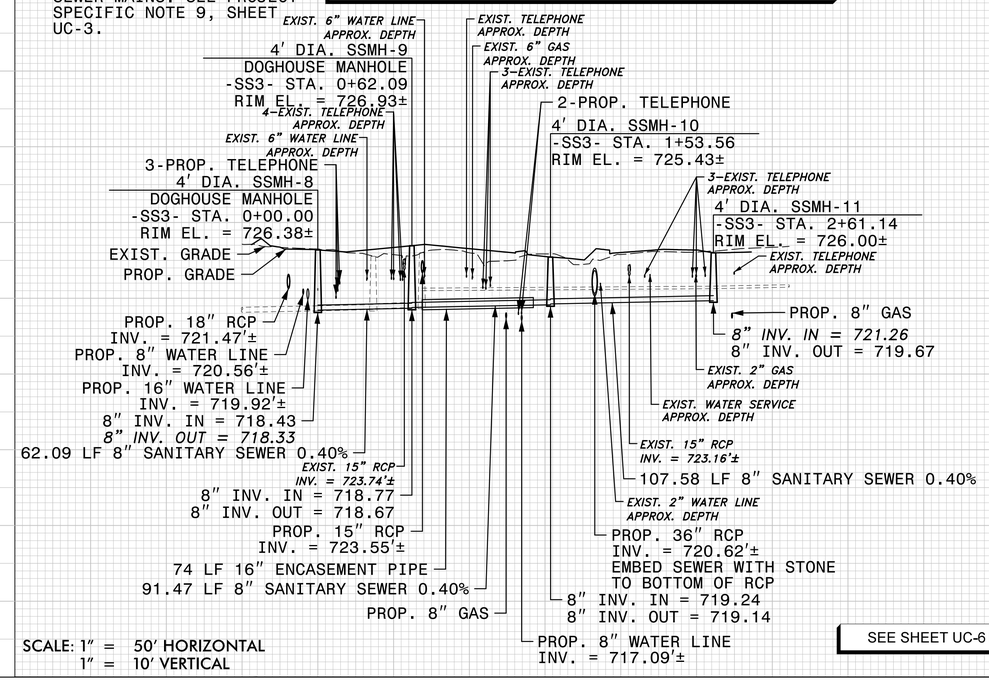


SCALE: 1″ = 50′ HORIZONTAL
1″ = 10′ VERTICAL

SEE SHEET UC-5 FOR -SS2- PLAN

PROP. 8" SANITARY SEWER -SS3- OLD MONROE ROAD

NOTES:
1. MAINTAIN MINIMUM PIPE SEPARATION OF 18″ VERTICAL BETWEEN WATER MAINS OVER SEWER MAINS. SEE PROJECT SPECIFIC NOTE 9, SHEET UC-3.



SCALE: 1″ = 50′ HORIZONTAL
1″ = 10′ VERTICAL

SEE SHEET UC-6 FOR -SS3- PLAN

8/31/2026
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Drake

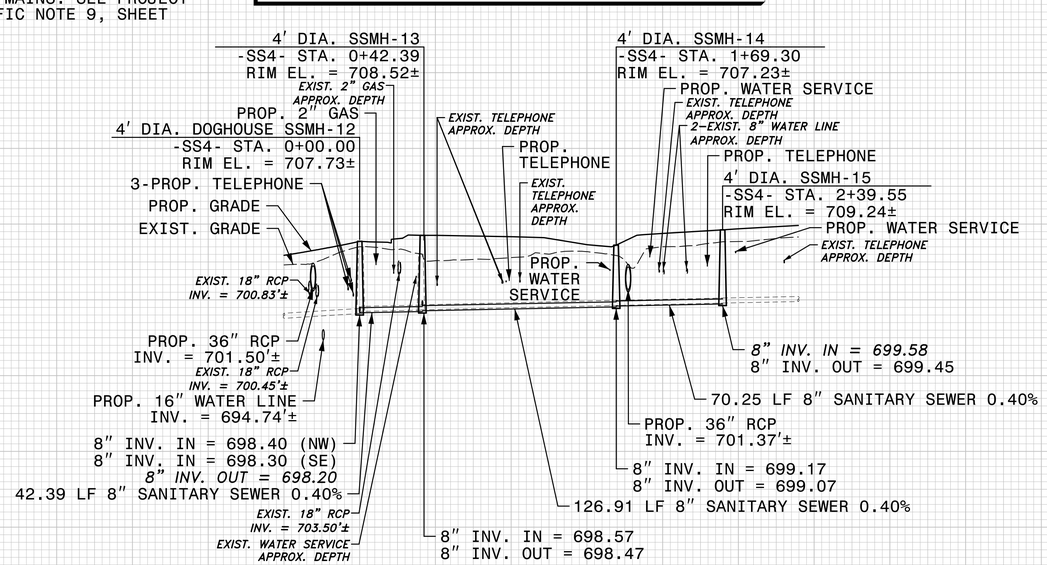
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Docusign Envelope ID: 0562D33A-00E9-83FD-83DF-A9B7DD17E0E3

5/28/99

NOTES:
1. MAINTAIN MINIMUM PIPE SEPARATION OF 18″ VERTICAL BETWEEN WATER MAINS OVER SEWER MAINS. SEE PROJECT SPECIFIC NOTE 9, SHEET UC-3.

PROP. 8" SANITARY SEWER -SS4- OLD MONROE ROAD

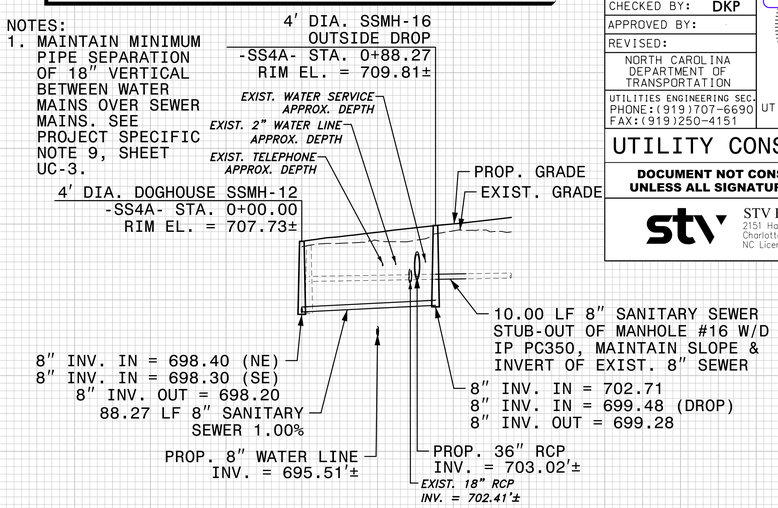


SEE SHEET UC-7 FOR -SS4- PLAN

SCALE: 1″ = 50′ HORIZONTAL
1″ = 10′ VERTICAL

PROP. 8" SANITARY SEWER -SS4A- OLD MONROE ROAD

NOTES:
1. MAINTAIN MINIMUM PIPE SEPARATION OF 18″ VERTICAL BETWEEN WATER MAINS OVER SEWER MAINS. SEE PROJECT SPECIFIC NOTE 9, SHEET UC-3.



SEE SHEET UC-7 FOR -SS4A- PLAN

SCALE: 1″ = 50′ HORIZONTAL
1″ = 10′ VERTICAL

PROJECT REFERENCE NO.	SHEET NO.
U-4714BA	UC-41
DESIGNED BY: RTK	
DRAWN BY: RTK	
CHECKED BY: DKP	
APPROVED BY:	
REVISED:	

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

Signature NORTH CAROLINA WILLIAM B. KEATON SEAL 045626 ENGINEER
9/16/2026

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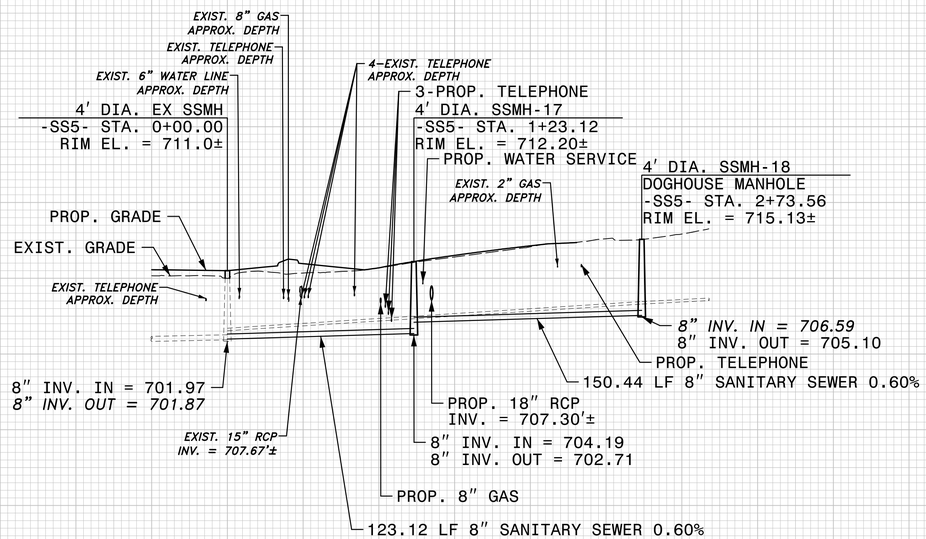
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2151 Hawkins Street, Suite 1400
Charlotte, NC 28203
NC License Number F-0991

NOTES:
1. MAINTAIN MINIMUM PIPE SEPARATION OF 18″ VERTICAL BETWEEN WATER MAINS OVER SEWER MAINS. SEE PROJECT SPECIFIC NOTE 9, SHEET UC-3.

PROP. 8" SANITARY SEWER -SS5- OLD MONROE ROAD



SEE SHEET UC-7 FOR -SS5- PLAN

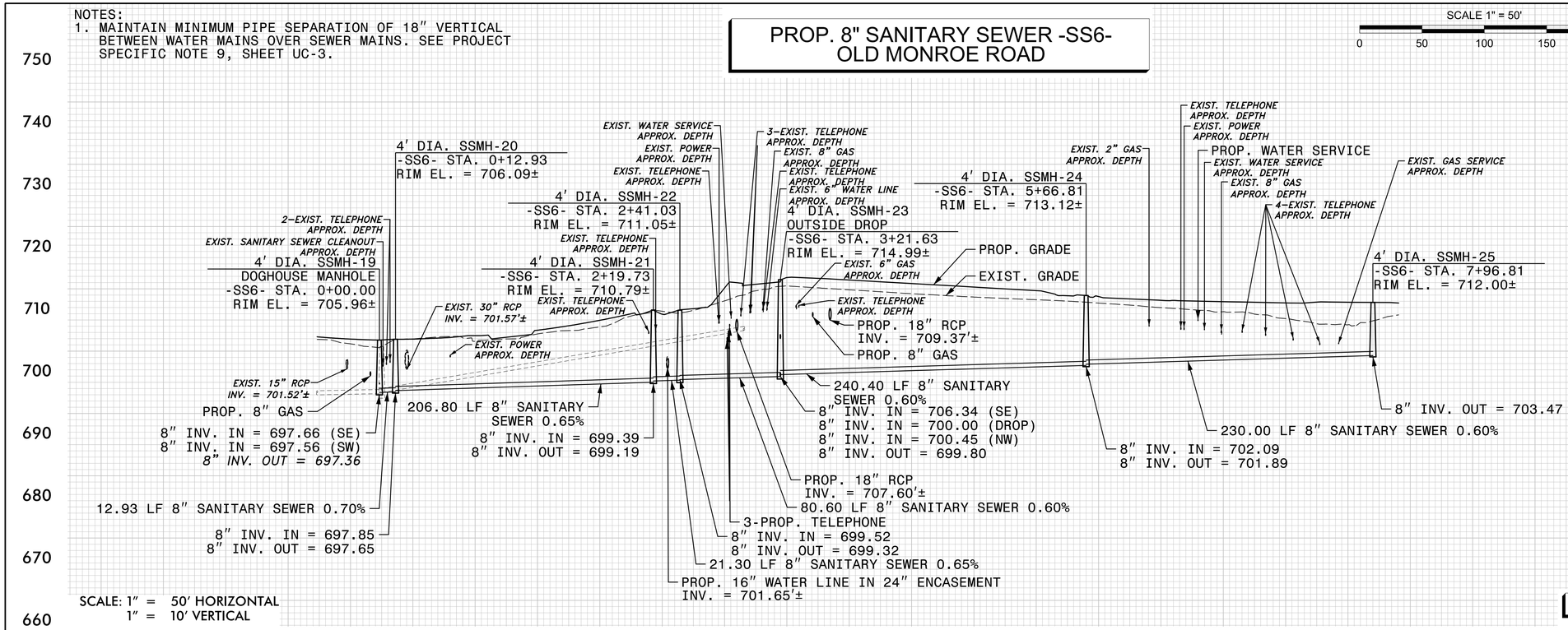
SCALE: 1″ = 50′ HORIZONTAL
1″ = 10′ VERTICAL

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DrakeE

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NOTES:
1. MAINTAIN MINIMUM PIPE SEPARATION OF 18″ VERTICAL BETWEEN WATER MAINS OVER SEWER MAINS. SEE PROJECT SPECIFIC NOTE 9, SHEET UC-3.

PROP. 8" SANITARY SEWER -SS6- OLD MONROE ROAD



SCALE: 1″ = 50′ HORIZONTAL
1″ = 10′ VERTICAL

SEE SHEETS UC-7&8 FOR -SS6- PLAN

PROJECT REFERENCE NO.	SHEET NO.
U-4714BA	UC-42
DESIGNED BY: RTK	
DRAWN BY: RTK	
CHECKED BY: DKP	
APPROVED BY:	
REVISED:	

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FAX:(919)250-4151

Signed NORTH CAROLINA WILLIAM B. KEATON SEAL 045626 ENGINEER 9/16/2026

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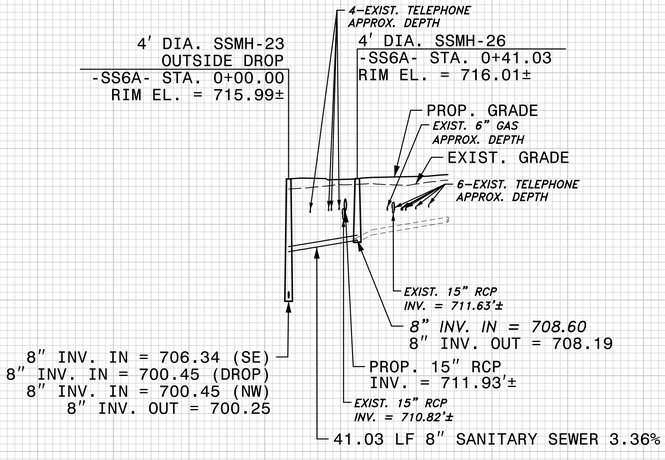
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PROP. 8" SANITARY SEWER -SS6A- OLD MONROE ROAD

NOTES:
1. MAINTAIN MINIMUM PIPE SEPARATION OF 18″ VERTICAL BETWEEN WATER MAINS OVER SEWER MAINS. SEE PROJECT SPECIFIC NOTE 9, SHEET UC-3.

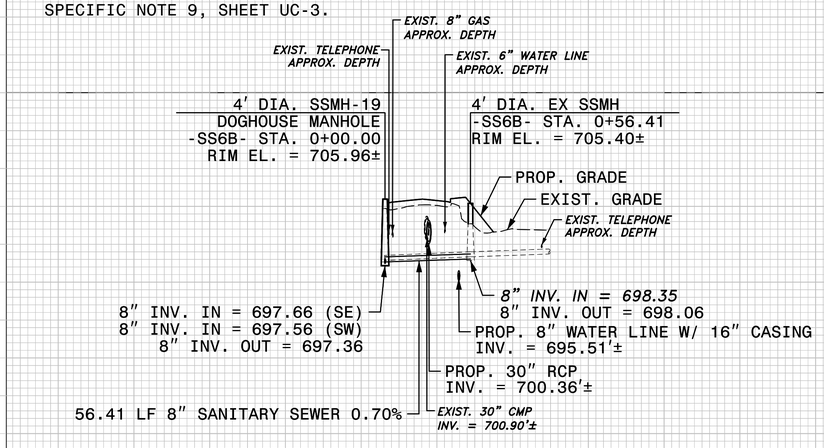


SCALE: 1″ = 50′ HORIZONTAL
1″ = 10′ VERTICAL

SEE SHEET UC-8 FOR -SS6A- PLAN

PROP. 8" SANITARY SEWER -SS6B- OLD MONROE ROAD

NOTES:
1. MAINTAIN MINIMUM PIPE SEPARATION OF 18″ VERTICAL BETWEEN WATER MAINS OVER SEWER MAINS. SEE PROJECT SPECIFIC NOTE 9, SHEET UC-3.



SCALE: 1″ = 50′ HORIZONTAL
1″ = 10′ VERTICAL

SEE SHEET UC-8 FOR -SS6B- PLAN

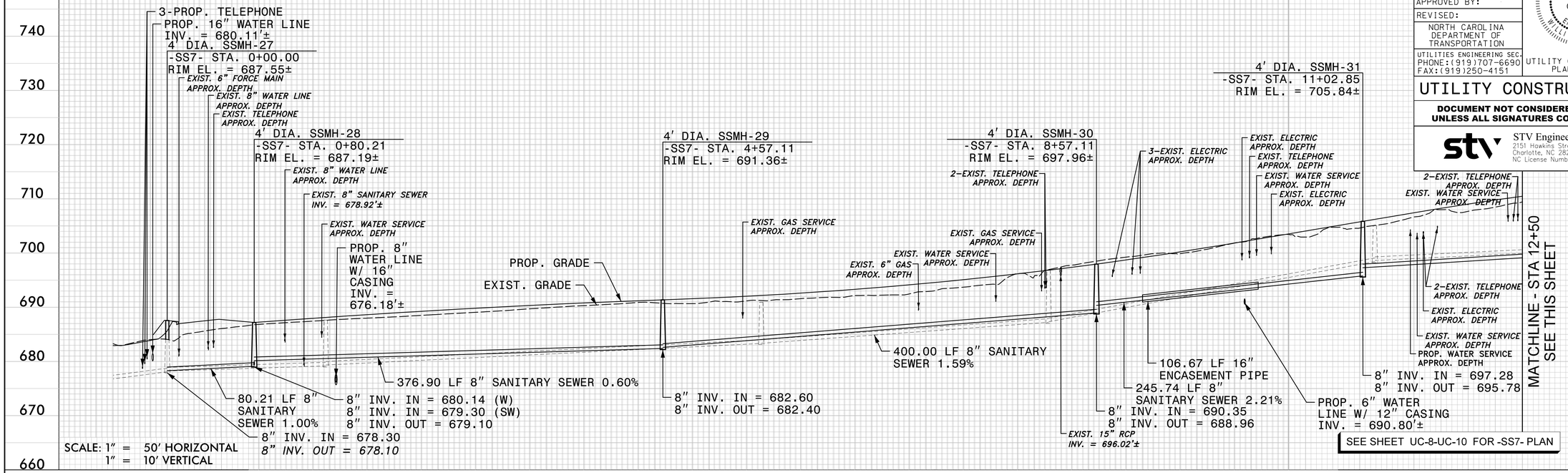
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5/28/99

NOTES:
1. MAINTAIN MINIMUM PIPE SEPARATION OF 18″ VERTICAL BETWEEN WATER MAINS OVER SEWER MAINS. SEE PROJECT SPECIFIC NOTE 9, SHEET UC-3.

PROP. 8" SEWER LINE -SS7- OLD MONROE ROAD



SEE SHEET UC-8-UC-10 FOR -SS7- PLAN

PROJECT REFERENCE NO.	SHEET NO.
U-4714BA	UC-43
DESIGNED BY: RTK	
DRAWN BY: RTK	
CHECKED BY: DKP	
APPROVED BY:	
REVISED:	

NORTH CAROLINA DEPARTMENT OF TRANSPORTATION
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FAX:(919)250-4151

Signature NORTH CAROLINA WILLIAM B. KEATON SEAL 045626 ENGINEER
9/16/2026

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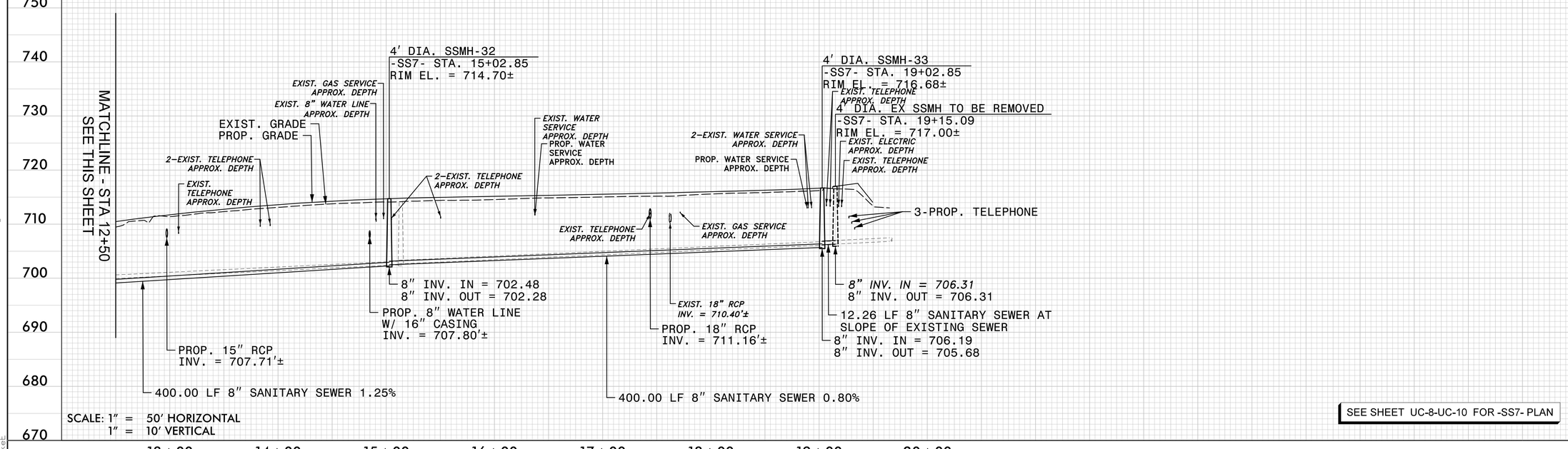
UTILITY CONSTRUCTION

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2151 Hawkins Street, Suite 1400
Charlotte, NC 28203
NC License Number F-0991

NOTES:
1. MAINTAIN MINIMUM PIPE SEPARATION OF 18″ VERTICAL BETWEEN WATER MAINS OVER SEWER MAINS. SEE PROJECT SPECIFIC NOTE 9, SHEET UC-3.

PROP. 8" SEWER LINE -SS7- OLD MONROE ROAD



SEE SHEET UC-8-UC-10 FOR -SS7- PLAN

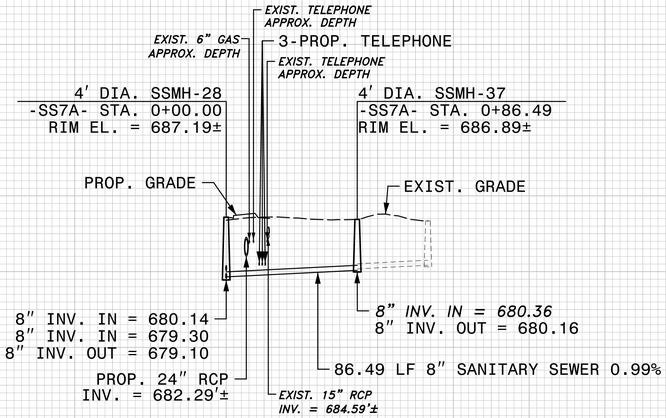
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PROP. 8" SEWER LINE -SS7A- OLD MONROE ROAD

NOTES:
1. MAINTAIN MINIMUM PIPE SEPARATION OF 18" VERTICAL BETWEEN WATER MAINS OVER SEWER MAINS. SEE PROJECT SPECIFIC NOTE 9, SHEET UC-3.



SCALE: 1" = 50' HORIZONTAL
1" = 10' VERTICAL

SEE SHEET UC-10 FOR -SS7A- PLAN

730 720 710 700 690 680 670 660 650 640

0+00 1+00 2+00

PROJECT REFERENCE NO.	SHEET NO.
U-4714BA	UC-44
DESIGNED BY: RTK	
DRAWN BY: RTK	
CHECKED BY: DKP	
APPROVED BY:	
REVISED:	

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

Signature NORTH CAROLINA Licensed DAM SEAL 045626 ENGINEER WILLIAM B. KEATON 9/16/2026

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PROP. 8" WATER LINE -WL1- OLD MONROE ROAD

NOTES:
1. SHADED REGIONS REPRESENT REQUIRED LENGTH OF JOINT RESTRAINT.

NOTES:
2. MAINTAIN MINIMUM PIPE SEPARATION OF 18" VERTICAL BETWEEN WATER MAINS OVER SEWER MAINS. SEE PROJECT SPECIFIC NOTE 9, SHEET UC-3.

PROJECT REFERENCE NO.	SHEET NO.
U-4714BA	UC-51
DESIGNED BY: RTK	
DRAWN BY: RTK	
CHECKED BY: DKP	
APPROVED BY:	
REVISED:	

NORTH CAROLINA DEPARTMENT OF TRANSPORTATION
UTILITIES ENGINEERING SEC.
PHONE:(919)707-6690
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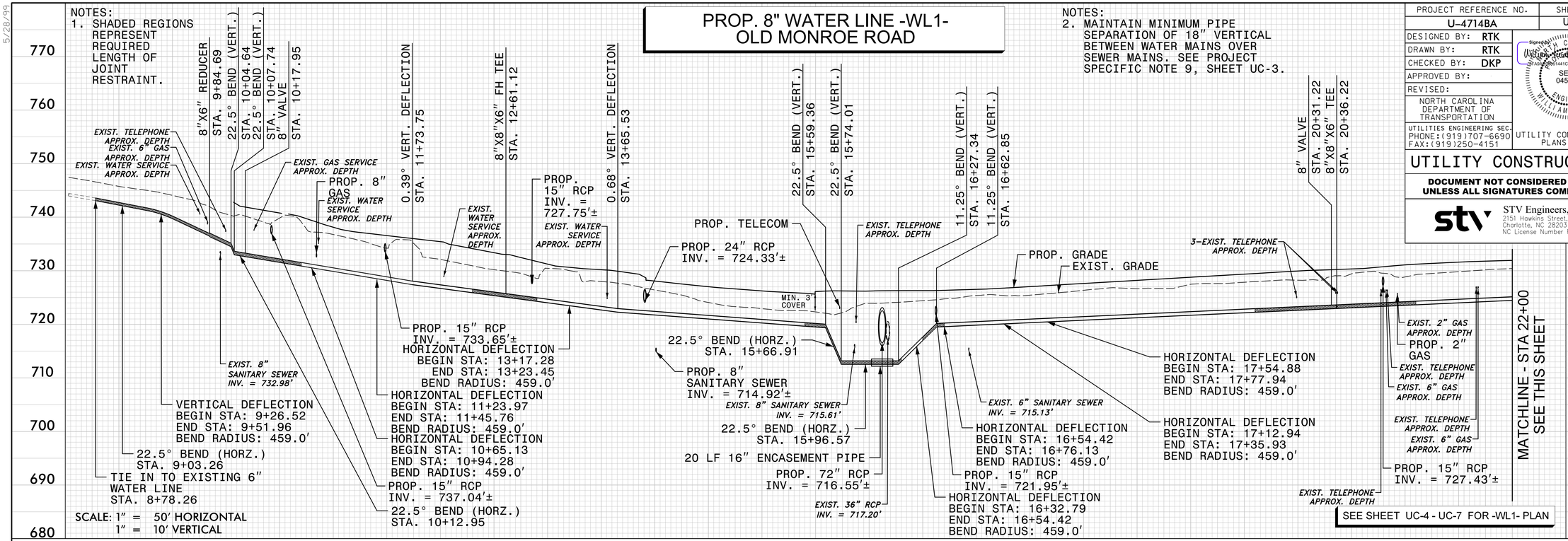
Signature NORTH CAROLINA Licensed Professional SEAL 045626 ENGINEER WILLIAM B. KEATON 9/16/2026

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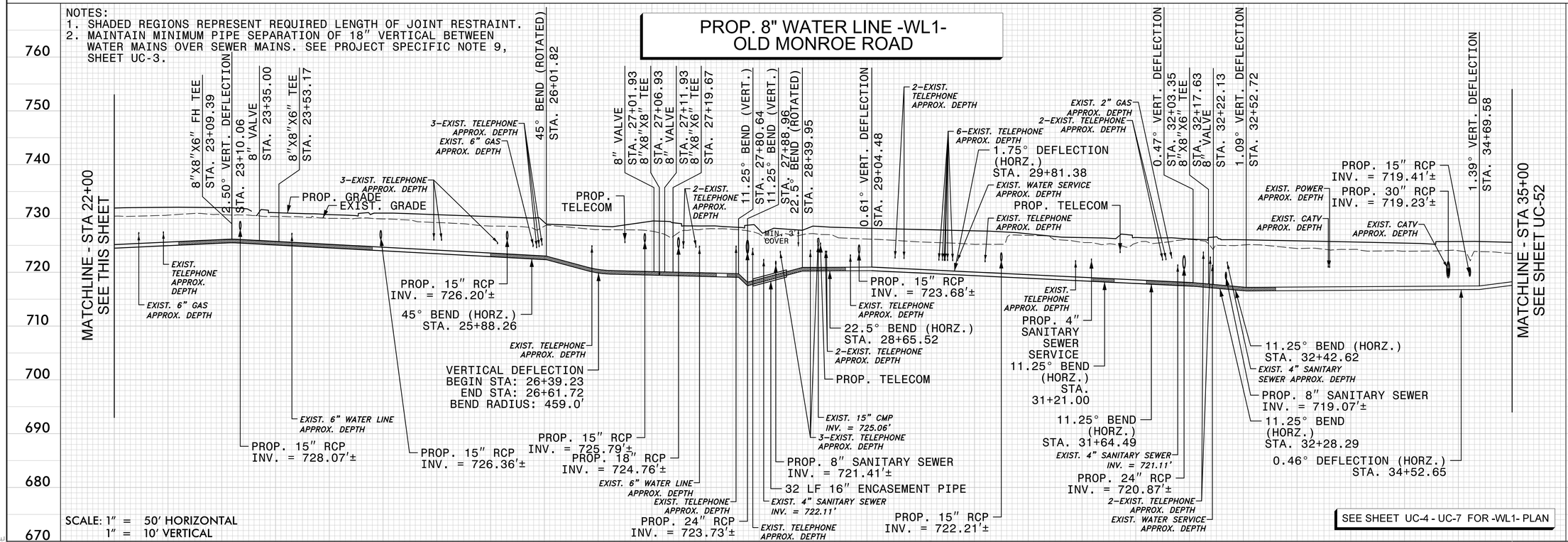
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PROP. 8" WATER LINE -WL1- OLD MONROE ROAD

NOTES:
1. SHADED REGIONS REPRESENT REQUIRED LENGTH OF JOINT RESTRAINT.
2. MAINTAIN MINIMUM PIPE SEPARATION OF 18" VERTICAL BETWEEN WATER MAINS OVER SEWER MAINS. SEE PROJECT SPECIFIC NOTE 9, SHEET UC-3.



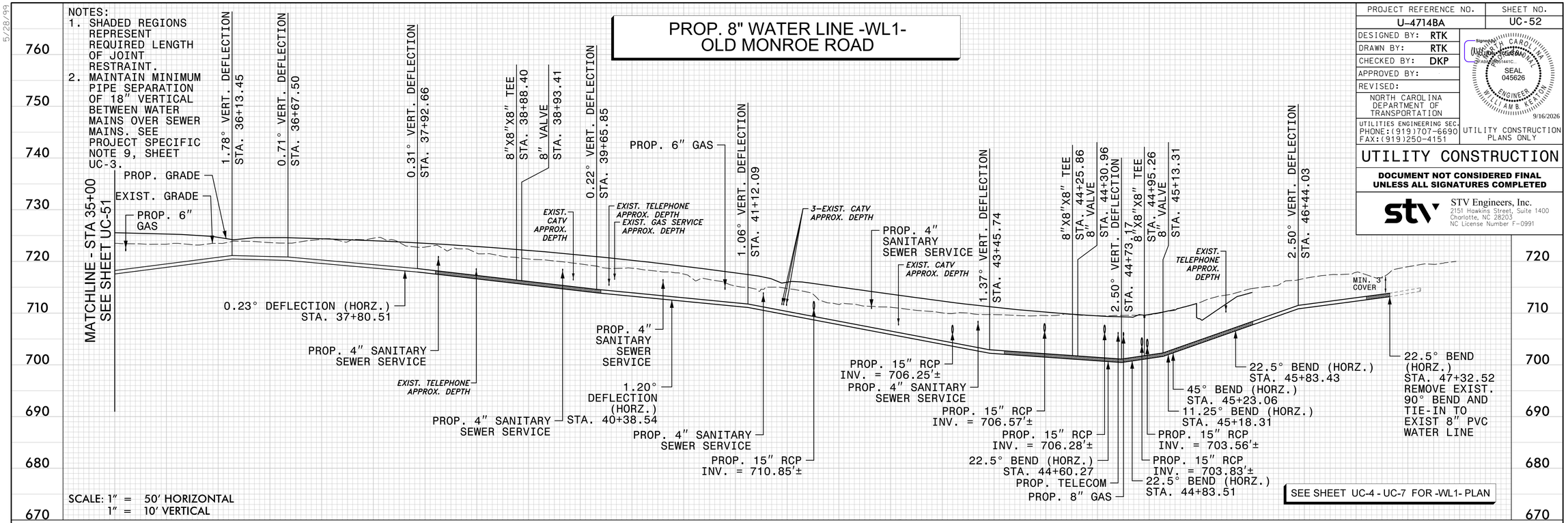
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Drake

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NOTES:
1. SHADED REGIONS REPRESENT REQUIRED LENGTH OF JOINT RESTRAINT.
2. MAINTAIN MINIMUM PIPE SEPARATION OF 18″ VERTICAL BETWEEN WATER MAINS OVER SEWER MAINS. SEE PROJECT SPECIFIC NOTE 9, SHEET UC-3.

PROP. 8" WATER LINE -WL1- OLD MONROE ROAD



SCALE: 1″ = 50′ HORIZONTAL
1″ = 10′ VERTICAL

SEE SHEET UC-4 - UC-7 FOR -WL1- PLAN

PROJECT REFERENCE NO.	SHEET NO.
U-4714BA	UC-52
DESIGNED BY: RTK	
DRAWN BY: RTK	
CHECKED BY: DKP	
APPROVED BY:	
REVISED:	

NORTH CAROLINA DEPARTMENT OF TRANSPORTATION
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Signature NORTH CAROLINA WILLIAM B. KEATON SEAL 045626 ENGINEER
9/16/2026
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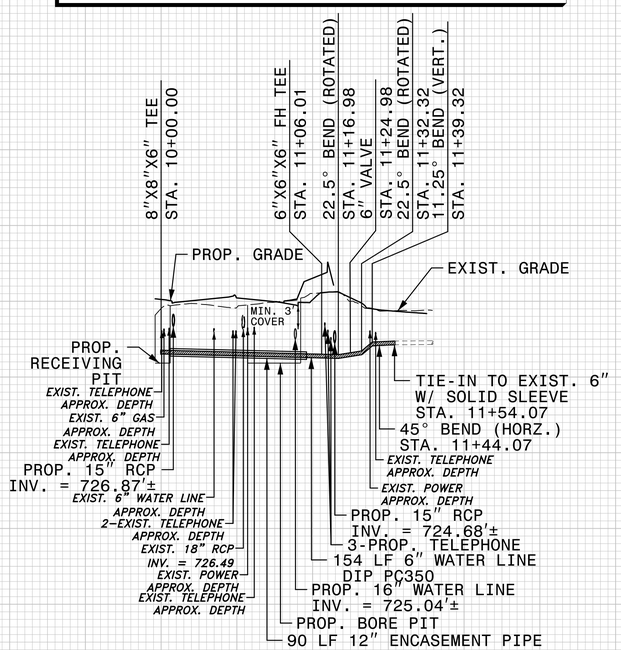
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Charlotte, NC 28203
NC License Number F-0991

NOTES:
1. SHADED REGIONS REPRESENT REQUIRED LENGTH OF JOINT RESTRAINT.
2. MAINTAIN MINIMUM PIPE SEPARATION OF 18″ VERTICAL BETWEEN WATER MAINS OVER SEWER MAINS. SEE PROJECT SPECIFIC NOTE 9, SHEET UC-3.

PROP. 6" WATER LINE -WL1A- OLD MONROE ROAD



SCALE: 1″ = 50′ HORIZONTAL
1″ = 10′ VERTICAL

SEE SHEET UC-5 FOR -WL1A- PLAN

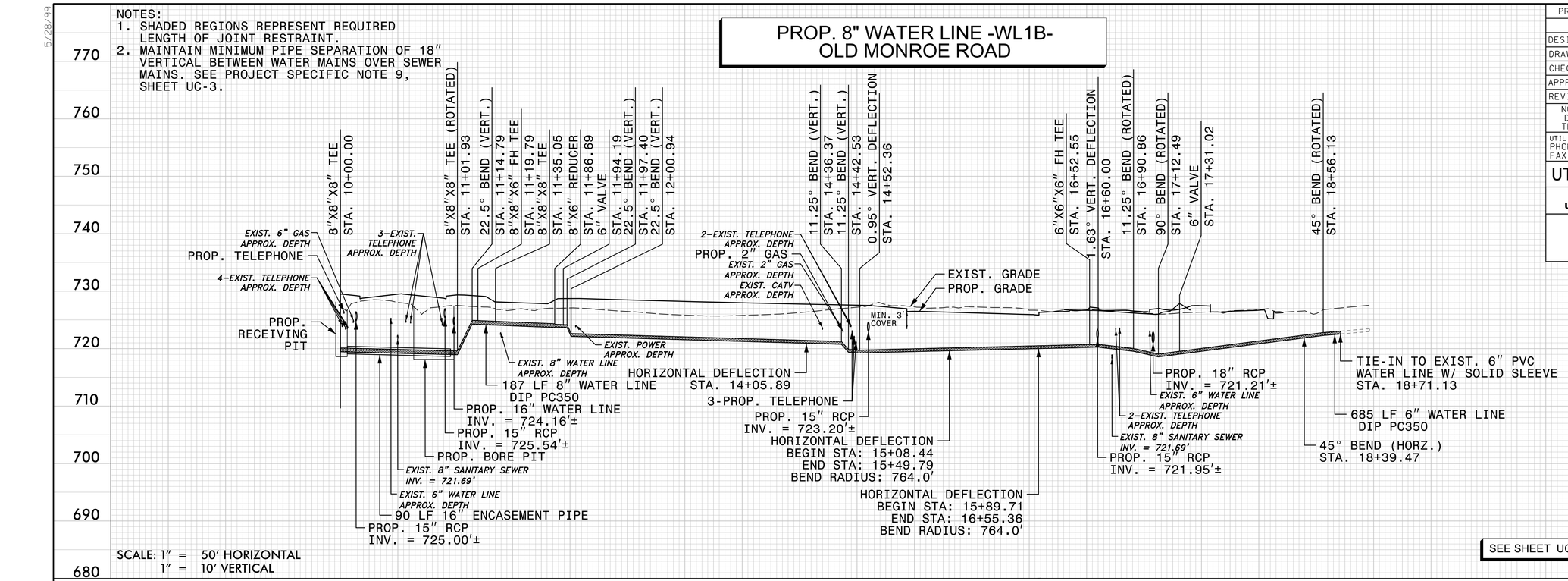
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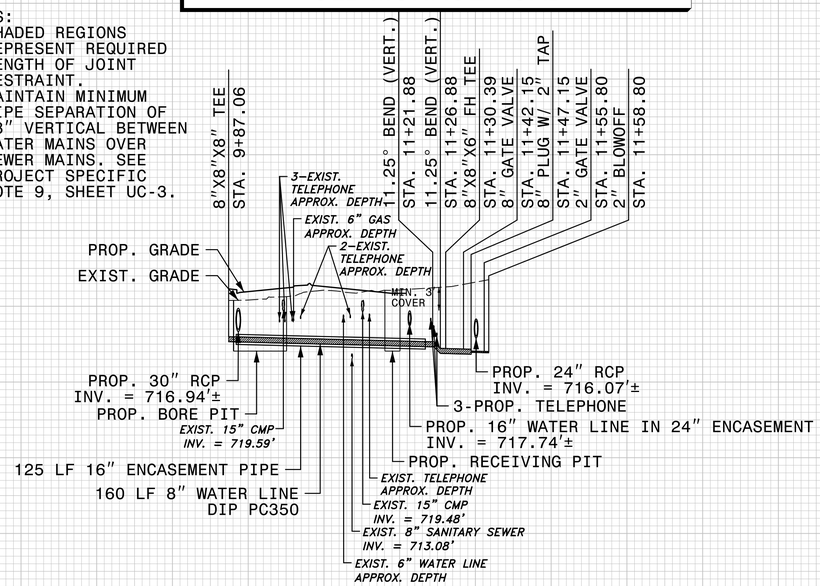
NOTES:
1. SHADED REGIONS REPRESENT REQUIRED LENGTH OF JOINT RESTRAINT.
2. MAINTAIN MINIMUM PIPE SEPARATION OF 18" VERTICAL BETWEEN WATER MAINS OVER SEWER MAINS. SEE PROJECT SPECIFIC NOTE 9, SHEET UC-3.

PROP. 8" WATER LINE -WL1B- OLD MONROE ROAD



PROP. 8" WATER LINE -WL1C- OLD MONROE ROAD

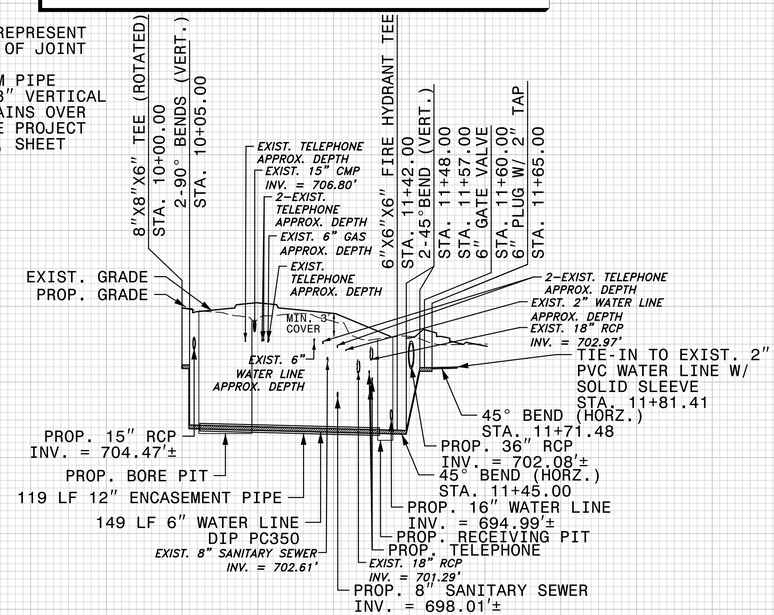
NOTES:
1. SHADED REGIONS REPRESENT REQUIRED LENGTH OF JOINT RESTRAINT.
2. MAINTAIN MINIMUM PIPE SEPARATION OF 18" VERTICAL BETWEEN WATER MAINS OVER SEWER MAINS. SEE PROJECT SPECIFIC NOTE 9, SHEET UC-3.



SEE SHEET UC-6 FOR -WL1C- PLAN

PROP. 6" WATER LINE -WL1D- OLD MONROE ROAD

NOTES:
1. SHADED REGIONS REPRESENT REQUIRED LENGTH OF JOINT RESTRAINT.
2. MAINTAIN MINIMUM PIPE SEPARATION OF 18" VERTICAL BETWEEN WATER MAINS OVER SEWER MAINS. SEE PROJECT SPECIFIC NOTE 9, SHEET UC-3.



SEE SHEET UC-7 FOR -WL1D- PLAN

PROJECT REFERENCE NO.	SHEET NO.
U-4714BA	UC-53
DESIGNED BY: RTK	
DRAWN BY: RTK	
CHECKED BY: DKP	
APPROVED BY:	
REVISED:	

NORTH CAROLINA DEPARTMENT OF TRANSPORTATION
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FAX:(919)250-4151

Signature NORTH CAROLINA WILLIAM BRADFORD KEATON 045626 SEAL ENGINEER WILLIAM B. KEATON 9/16/2026

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NOTES:
1. SHADED REGIONS REPRESENT REQUIRED LENGTH OF JOINT RESTRAINT.
2. MAINTAIN MINIMUM PIPE SEPARATION OF 18″ VERTICAL BETWEEN WATER MAINS OVER SEWER MAINS. SEE PROJECT SPECIFIC NOTE 9, SHEET UC-3.

PROP. 16" WATER LINE -WL2- OLD MONROE ROAD

PROJECT REFERENCE NO.	SHEET NO.
U-4714BA	UC-54
DESIGNED BY: RTK	
DRAWN BY: RTK	
CHECKED BY: DKP	
APPROVED BY:	
REVISED:	

NORTH CAROLINA DEPARTMENT OF TRANSPORTATION

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

Signed by: WILLIAM B. KEATON — NORTH CAROLINA — Licensed Professional — SEAL 045626 — ENGINEER — WILLIAM B. KEATON — 9/16/2026

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785 / 775 / 765 / 755 / 745 / 735 / 725 / 715 / 705 / 695

2″ BLOWOFF STA. 9+98.00
2″ VALVE STA. 10+01.00
16″ PLUG W/ 2″ TAP STA. 10+08.21
16″ VALVE STA. 10+13.21
PROP. TELEPHONE
45° BEND (HORZ.) STA. 10+55.18
45° BEND (HORZ.) STA. 10+19.06
PROP. 24″ RCP INV. = 721.76′±
VERTICAL DEFLECTION BEGIN STA: 13+85.49 END STA: 14+12.76 BEND RADIUS: 764.0′
VERTICAL DEFLECTION BEGIN STA: 14+21.60 END STA: 14+61.21 BEND RADIUS: 764.0′
22.5° BEND (VERT.) STA. 15+00.07
22.5° BEND (VERT.) STA. 15+08.05
20 LF 24″ ENCASEMENT PIPE
PROP. 72″ RCP INV. = 717.63′±
PROP. 15″ RCP INV. = 721.77′±
MIN. 3′ COVER
VERTICAL DEFLECTION BEGIN STA: 15+65.42 END STA: 16+06.41 BEND RADIUS: 764.0′
EXIST. TELEPHONE APPROX. DEPTH
PROP. WATER SERVICE
EXIST. POWER APPROX. DEPTH
VERTICAL DEFLECTION BEGIN STA: 17+02.85 END STA: 17+37.48 BEND RADIUS: 764.0′
22.5° BEND (VERT.) STA. 19+93.26
22.5° BEND (VERT.) STA. 20+07.43
PROP. 15″ RCP INV. = 724.45′±
PROP. 6″ WATER LINE W/ 12″ CASING INV. = 722.60′±
EXIST. TELEPHONE APPROX. DEPTH
EXIST. POWER APPROX. DEPTH
22.5° BEND (VERT.) STA. 21+22.48
22.5° BEND (VERT.) STA. 21+32.62
0.84° VERT. DEFLECTION STA. 22+66.28
EXIST. POWER APPROX. DEPTH
EXIST. TELEPHONE APPROX. DEPTH
EXIST. 2″ GAS APPROX. DEPTH
EXIST. 6″ WATER LINE APPROX. DEPTH
PROP. 2″ GAS
PROP. 15″ RCP INV. = 726.84′±
MATCHLINE - STA 23+00 SEE THIS SHEET
MATCHLINE - STA 23+00 SEE THIS SHEET

SCALE: 1″ = 50′ HORIZONTAL
1″ = 10′ VERTICAL

10+00 / 11+00 / 12+00 / 13+00 / 14+00 / 15+00 / 16+00 / 17+00 / 18+00 / 19+00 / 20+00 / 21+00 / 22+00 / 23+00

SEE SHEET UC-4-UC-10 FOR -WL2- PLAN

NOTES:
1. SHADED REGIONS REPRESENT REQUIRED LENGTH OF JOINT RESTRAINT.
2. MAINTAIN MINIMUM PIPE SEPARATION OF 18″ VERTICAL BETWEEN WATER MAINS OVER SEWER MAINS. SEE PROJECT SPECIFIC NOTE 9, SHEET UC-3.

PROP. 16" WATER LINE -WL2- OLD MONROE ROAD

775 / 765 / 755 / 745 / 735 / 725 / 715 / 705 / 695 / 685

MATCHLINE - STA 23+00 SEE THIS SHEET
EXIST. TELEPHONE APPROX. DEPTH
EXIST. POWER APPROX. DEPTH
EXIST. TELEPHONE APPROX. DEPTH
PROP. 15″ RCP INV. = 727.63′±
MIN. 3′ COVER
DEFLECT 1 JOINT 0.26° STA. 25+09.47
16″ VALVE STA. 26+80.00
16″X16″X8″ TEE STA. 26+91.78
PROP. 8″ WATER LINE INV. = 718.94′±
EXIST. 8″ WATER LINE APPROX. DEPTH
EXIST. POWER APPROX. DEPTH
0.08° VERT. DEFLECTION STA. 29+61.48
EXIST. 2″ GAS APPROX. DEPTH
EXIST. CATV APPROX. DEPTH
DEFLECT 1 JOINT 1.5° STA. 30+05.42
2-EXIST. TELEPHONE APPROX. DEPTH
PROP. 15″ RCP INV. = 723.38′±
HORIZONTAL DEFLECTION BEGIN STA: 31+08.41 END STA: 31+49.76 BEND RADIUS: 764.0′
0.41° VERT. DEFLECTION STA. 31+66.15
PROP. 36″ RCP INV. = 721.58′±
HORIZONTAL DEFLECTION BEGIN STA: 31+89.64 END STA: 32+55.29 BEND RADIUS: 764.0′
PROP. TELEPHONE
2-EXIST. TELEPHONE APPROX. DEPTH
PROP. 15″ RCP INV. = 722.14′±
EXIST. 8″ SANITARY INV. = 718.33′
EXIST. 15″ CMP APPROX. DEPTH
EXIST. 6″ WATER LINE ABANDONED
45° BEND (ROTATED) STA. 33+51.74
PROP. 18″ RCP INV. = 721.18′±
VERTICAL DEFLECTION BEGIN STA: 32+82.55 END STA: 33+10.20 BEND RADIUS: 764.0′
45° BEND (HORZ.) STA. 33+71.96
PROP. TELEPHONE
EXIST. GAS SERVICE APPROX. DEPTH
PROP. 15″ RCP INV. = 720.73′±
EXIST. POWER APPROX. DEPTH
PROP. 15″ RCP INV. = 721.19′±
PROP. WATER SERVICE
0.33° VERT. DEFLECTION STA. 35+25.76
45° BEND (HORZ.) STA. 35+30.04
45° BEND (HORZ.) STA. 35+09.79
PROP. 24″ RCP INV. = 719.63′±
HORIZONTAL DEFLECTION BEGIN STA: 33+80.86 END STA: 34+05.62 BEND RADIUS: 764.0′
MATCHLINE - STA 36+00 SEE SHEET UC-55

SCALE: 1″ = 50′ HORIZONTAL
1″ = 10′ VERTICAL

23+00 / 24+00 / 25+00 / 26+00 / 27+00 / 28+00 / 29+00 / 30+00 / 31+00 / 32+00 / 33+00 / 34+00 / 35+00 / 36+00

SEE SHEET UC-4-UC-10 FOR -WL2- PLAN

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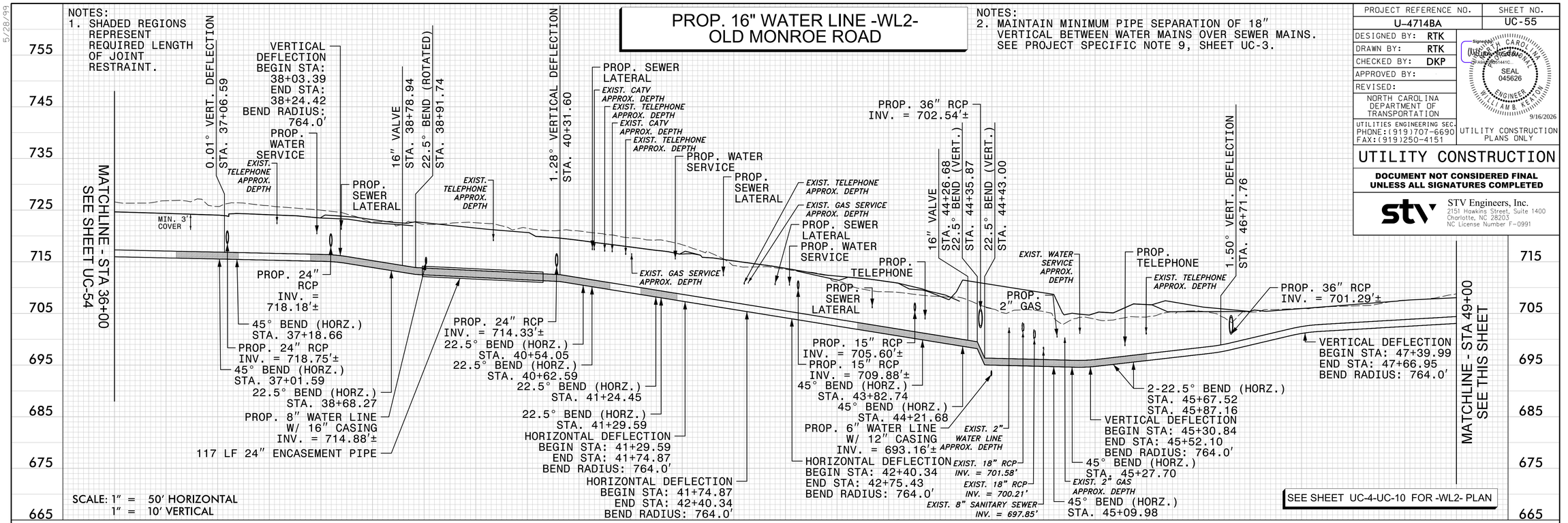
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PROP. 16" WATER LINE -WL2- OLD MONROE ROAD

NOTES:
1. SHADED REGIONS REPRESENT REQUIRED LENGTH OF JOINT RESTRAINT.

NOTES:
2. MAINTAIN MINIMUM PIPE SEPARATION OF 18" VERTICAL BETWEEN WATER MAINS OVER SEWER MAINS. SEE PROJECT SPECIFIC NOTE 9, SHEET UC-3.



PROJECT REFERENCE NO.	SHEET NO.
U-4714BA	UC-55
DESIGNED BY: RTK	
DRAWN BY: RTK	
CHECKED BY: DKP	
APPROVED BY:	
REVISED:	

NORTH CAROLINA DEPARTMENT OF TRANSPORTATION
UTILITIES ENGINEERING SEC.
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Signature NORTH CAROLINA PROFESSIONAL ENGINEER SEAL 045626 ENGINEER WILLIAM B. KEATON 9/16/2026

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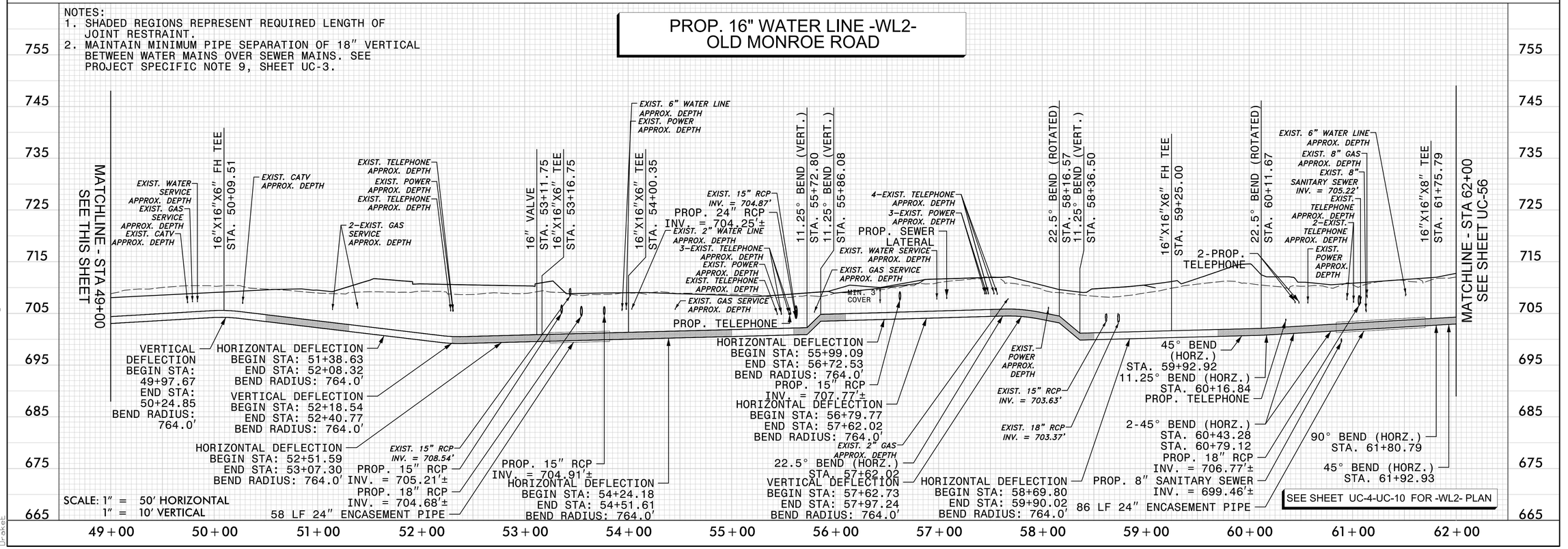
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PROP. 16" WATER LINE -WL2- OLD MONROE ROAD

NOTES:
1. SHADED REGIONS REPRESENT REQUIRED LENGTH OF JOINT RESTRAINT.
2. MAINTAIN MINIMUM PIPE SEPARATION OF 18" VERTICAL BETWEEN WATER MAINS OVER SEWER MAINS. SEE PROJECT SPECIFIC NOTE 9, SHEET UC-3.



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NOTES:
1. SHADED REGIONS REPRESENT REQUIRED LENGTH OF JOINT RESTRAINT.
2. MAINTAIN MINIMUM PIPE SEPARATION OF 18″ VERTICAL BETWEEN WATER MAINS OVER SEWER MAINS. SEE PROJECT SPECIFIC NOTE 9, SHEET UC-3.

PROP. 16" WATER LINE -WL2- OLD MONROE ROAD

PROJECT REFERENCE NO.	SHEET NO.
U-4714BA	UC-56

DESIGNED BY: RTK
DRAWN BY: RTK
CHECKED BY: DKP
APPROVED BY:
REVISED:

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

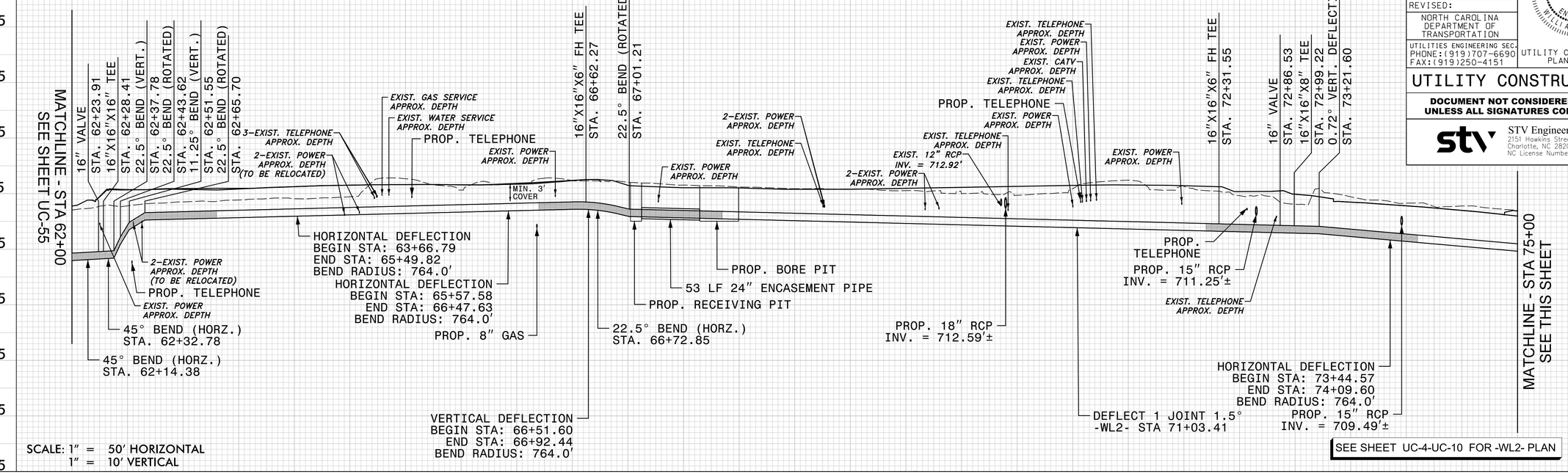
Signature: WILLIAM B. KEATON, NORTH CAROLINA REGISTERED ENGINEER, SEAL 045626, ENGINEER WILLIAM B. KEATON, 9/16/2026

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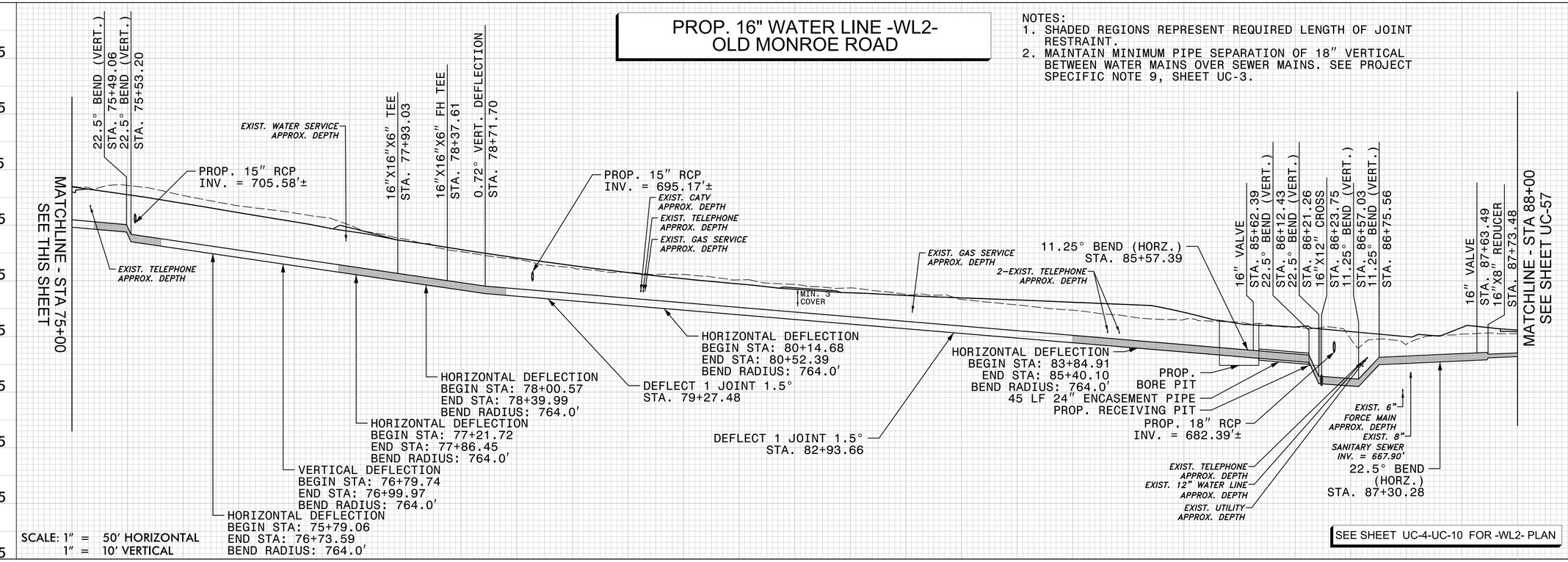
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Charlotte, NC 28203
NC License Number F-0991



PROP. 16" WATER LINE -WL2- OLD MONROE ROAD

NOTES:
1. SHADED REGIONS REPRESENT REQUIRED LENGTH OF JOINT RESTRAINT.
2. MAINTAIN MINIMUM PIPE SEPARATION OF 18″ VERTICAL BETWEEN WATER MAINS OVER SEWER MAINS. SEE PROJECT SPECIFIC NOTE 9, SHEET UC-3.



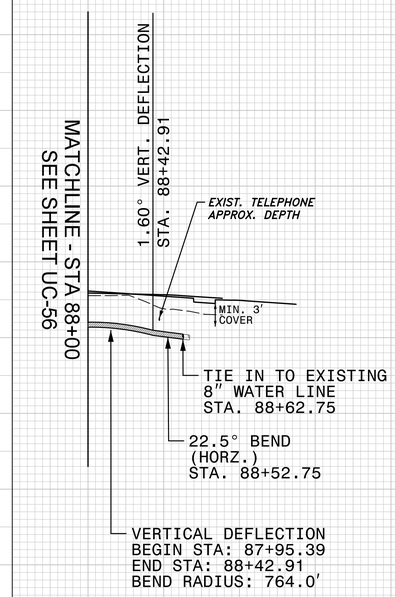
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NOTES:
1. SHADED REGIONS REPRESENT REQUIRED LENGTH OF JOINT RESTRAINT.
2. MAINTAIN MINIMUM PIPE SEPARATION OF 18″ VERTICAL BETWEEN WATER MAINS OVER SEWER MAINS. SEE PROJECT SPECIFIC NOTE 9, SHEET UC-3.

PROP. 16" WATER LINE -WL2- OLD MONROE ROAD



SCALE: 1″ = 50′ HORIZONTAL
1″ = 10′ VERTICAL

730 720 710 700 690 680 670 660 650 640

88+00 89+00 90+00 91+00 92+00 93+00 94+00 95+00 96+00 97+00 98+00 99+00 100+00 101+00

SEE SHEET UC-4-UC-10 FOR -WL2- PLAN

PROJECT REFERENCE NO.	SHEET NO.
U-4714BA	UC-57
DESIGNED BY: RTK	
DRAWN BY: RTK	
CHECKED BY: DKP	
APPROVED BY:	
REVISED:	

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Signature: William Keaton
Digitally signed by William Keaton
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NORTH CAROLINA
SEAL 045626
ENGINEER
WILLIAM B. KEATON
9/16/2026

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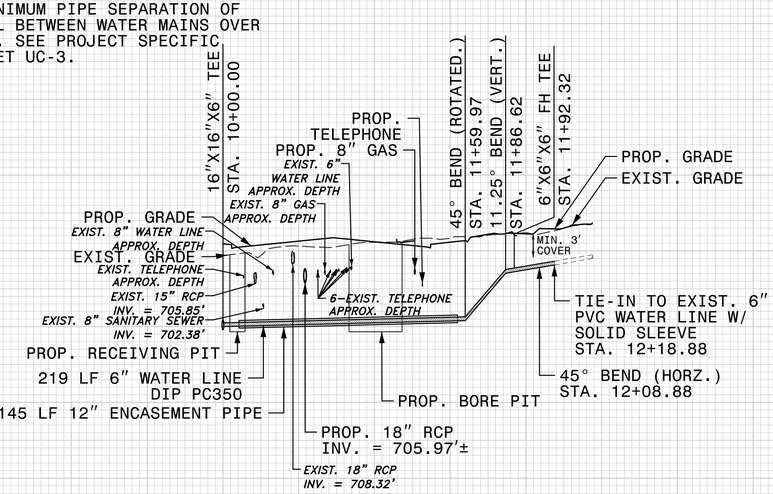
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PROP. 6" WATER LINE -WL2A- OLD MONROE ROAD

NOTES:
1. SHADED REGIONS REPRESENT REQUIRED LENGTH OF JOINT RESTRAINT.
2. MAINTAIN MINIMUM PIPE SEPARATION OF 18" VERTICAL BETWEEN WATER MAINS OVER SEWER MAINS. SEE PROJECT SPECIFIC NOTE 9, SHEET UC-3.

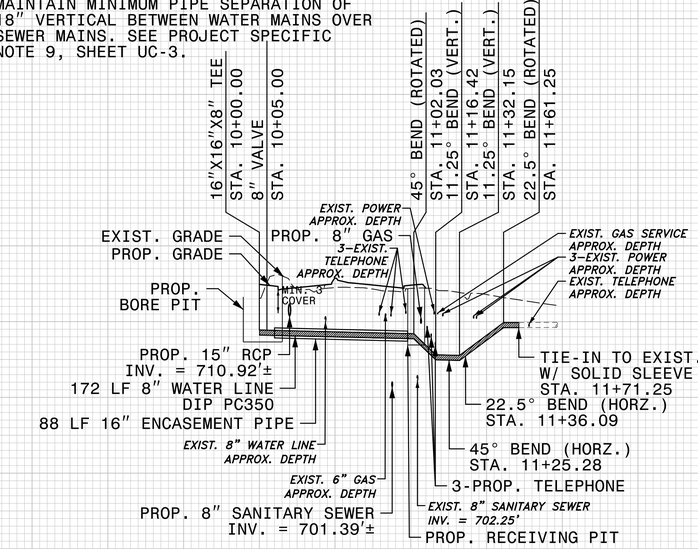


SCALE: 1" = 50' HORIZONTAL
1" = 10' VERTICAL

SEE SHEET UC-7 FOR -WL2A- PLAN

PROP. 8" WATER LINE -WL2B- OLD MONROE ROAD

NOTES:
1. SHADED REGIONS REPRESENT REQUIRED LENGTH OF JOINT RESTRAINT.
2. MAINTAIN MINIMUM PIPE SEPARATION OF 18" VERTICAL BETWEEN WATER MAINS OVER SEWER MAINS. SEE PROJECT SPECIFIC NOTE 9, SHEET UC-3.



SCALE: 1" = 50' HORIZONTAL
1" = 10' VERTICAL

SEE SHEET UC-9 FOR -WL2B- PLAN

PROJECT REFERENCE NO.	SHEET NO.
U-4714BA	UC-62
DESIGNED BY: RTK	
DRAWN BY: RTK	
CHECKED BY: DKP	
APPROVED BY:	
REVISED:	

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

NORTH CAROLINA — WILLIAM B. KEATON — SEAL 045626 — ENGINEER — 9/16/2026

UTILITY CONSTRUCTION PLANS ONLY

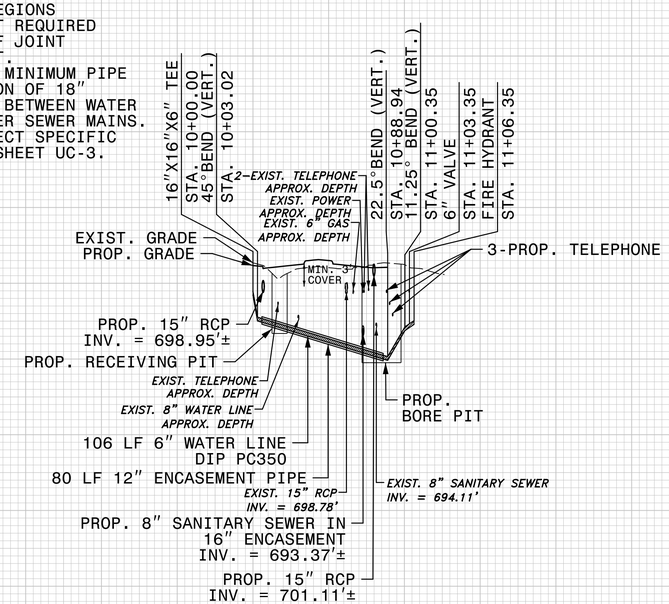
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STV Engineers, Inc.
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Charlotte, NC 28203
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PROP. 6" WATER LINE -WL2C- OLD MONROE ROAD

NOTES:
1. SHADED REGIONS REPRESENT REQUIRED LENGTH OF JOINT RESTRAINT.
2. MAINTAIN MINIMUM PIPE SEPARATION OF 18" VERTICAL BETWEEN WATER MAINS OVER SEWER MAINS. SEE PROJECT SPECIFIC NOTE 9, SHEET UC-3.



SCALE: 1" = 50' HORIZONTAL
1" = 10' VERTICAL

SEE SHEET UC-9 FOR -WL2C- PLAN

NOTES:
1. SHADED REGIONS REPRESENT REQUIRED LENGTH OF JOINT RESTRAINT.

SCALE: 1" = 50' HORIZONTAL
1" = 10' VERTICAL

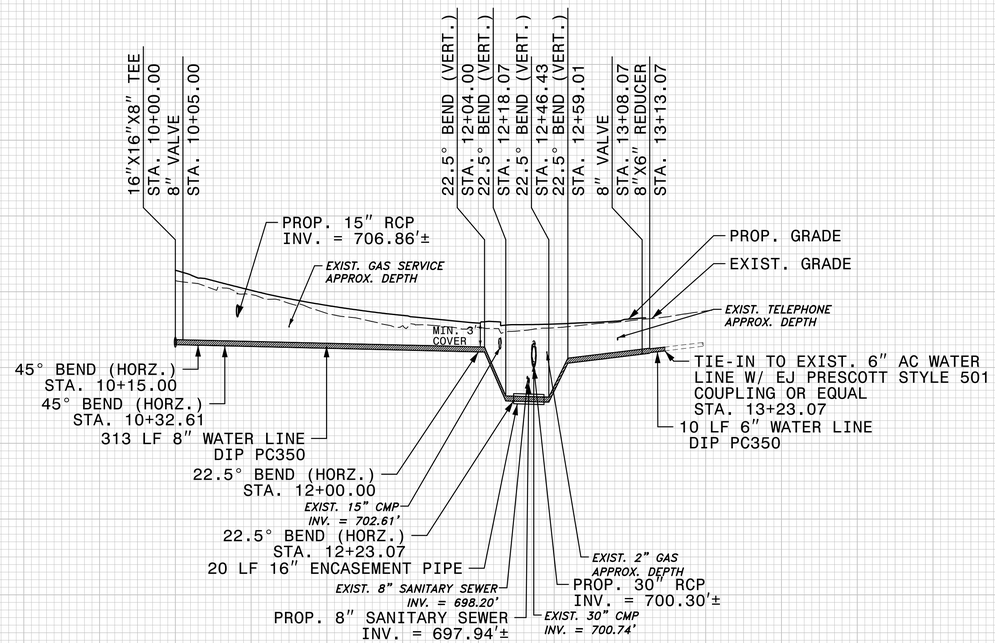
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NOTES:
1. SHADED REGIONS REPRESENT REQUIRED LENGTH OF JOINT RESTRAINT.
2. MAINTAIN MINIMUM PIPE SEPARATION OF 18″ VERTICAL BETWEEN WATER MAINS OVER SEWER MAINS. SEE PROJECT SPECIFIC NOTE 9, SHEET UC-3.

PROP. 8" WATER LINE -WL3- WAXHAW-INDIAN TRAIL ROAD



SCALE: 1″ = 50′ HORIZONTAL
1″ = 10′ VERTICAL

SEE SHEET UC-8 FOR -WL3- PLAN

PROJECT REFERENCE NO.	SHEET NO.
U-4714BA	UC-65
DESIGNED BY: RTK	
DRAWN BY: RTK	
CHECKED BY: DKP	
APPROVED BY:	
REVISED:	

NORTH CAROLINA DEPARTMENT OF TRANSPORTATION

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

Signature WILLIAM B. KEATON, PE Date 9/16/2026 SEAL 045626 ENGINEER WILLIAM B. KEATON

UTILITY CONSTRUCTION PLANS ONLY

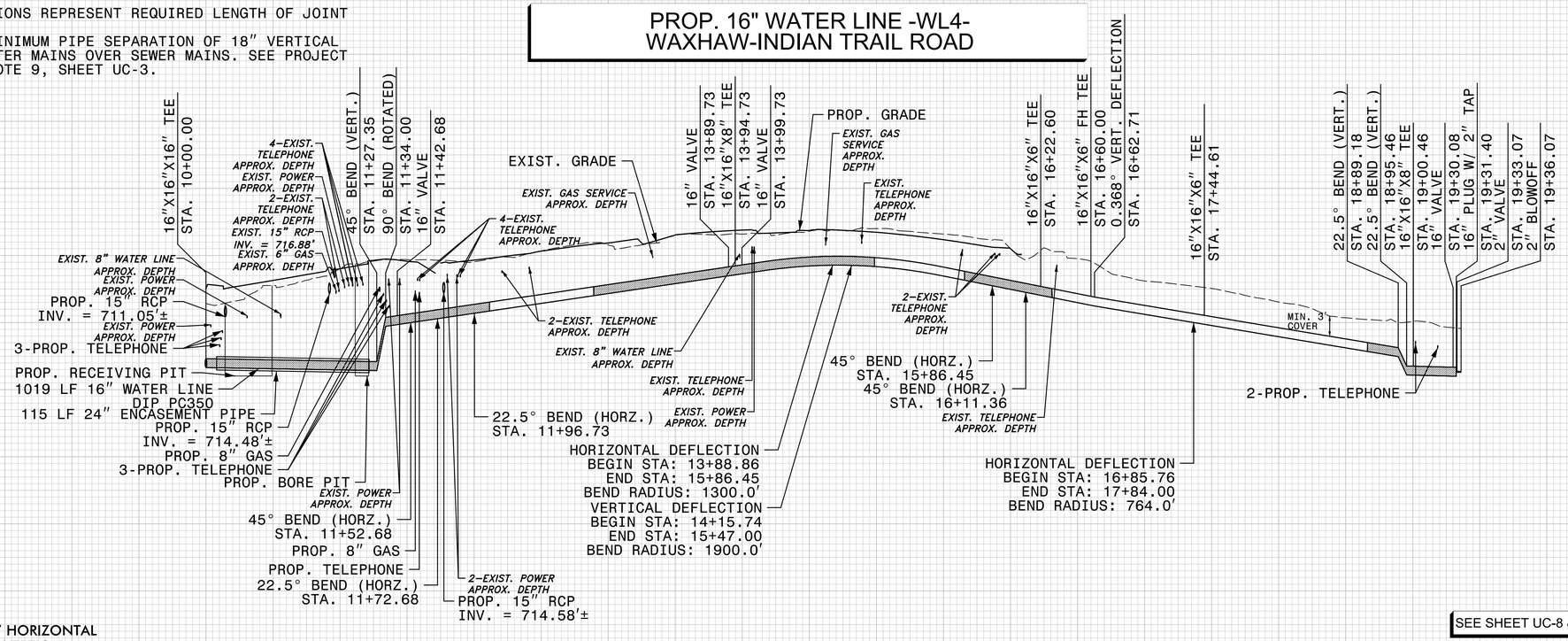
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NOTES:
1. SHADED REGIONS REPRESENT REQUIRED LENGTH OF JOINT RESTRAINT.
2. MAINTAIN MINIMUM PIPE SEPARATION OF 18″ VERTICAL BETWEEN WATER MAINS OVER SEWER MAINS. SEE PROJECT SPECIFIC NOTE 9, SHEET UC-3.

PROP. 16" WATER LINE -WL4- WAXHAW-INDIAN TRAIL ROAD



SCALE: 1″ = 50′ HORIZONTAL
1″ = 10′ VERTICAL

SEE SHEET UC-8 & UC-11 FOR -WL4- PLAN

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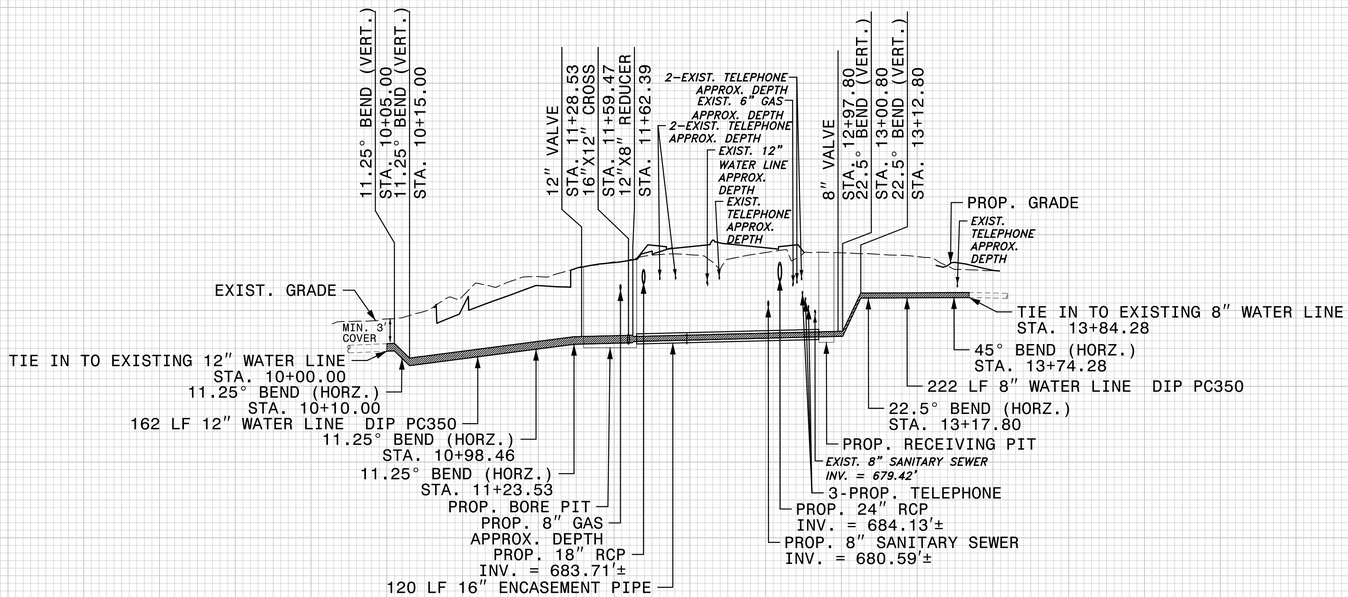
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NOTES:
1. SHADED REGIONS REPRESENT REQUIRED LENGTH OF JOINT RESTRAINT.
2. MAINTAIN MINIMUM PIPE SEPARATION OF 18″ VERTICAL BETWEEN WATER MAINS OVER SEWER MAINS. SEE PROJECT SPECIFIC NOTE 9, SHEET UC-3.

PROP. 8" WATER LINE -WL5- OLD MONROE ROAD



SCALE: 1" = 50' HORIZONTAL
1" = 10' VERTICAL

SEE SHEET UC-10 FOR -WL5- PLAN

PROJECT REFERENCE NO.	SHEET NO.
U-4714BA	UC-66
DESIGNED BY: RTK	
DRAWN BY: RTK	
CHECKED BY: DKP	
APPROVED BY:	
REVISED:	

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FAX:(919)250-4151

Signed by: WILLIAM B. KEATON, NORTH CAROLINA, 045626, ENGINEER, SEAL
9/16/2026

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