

09/08/99

TIP PROJECT: U-5899

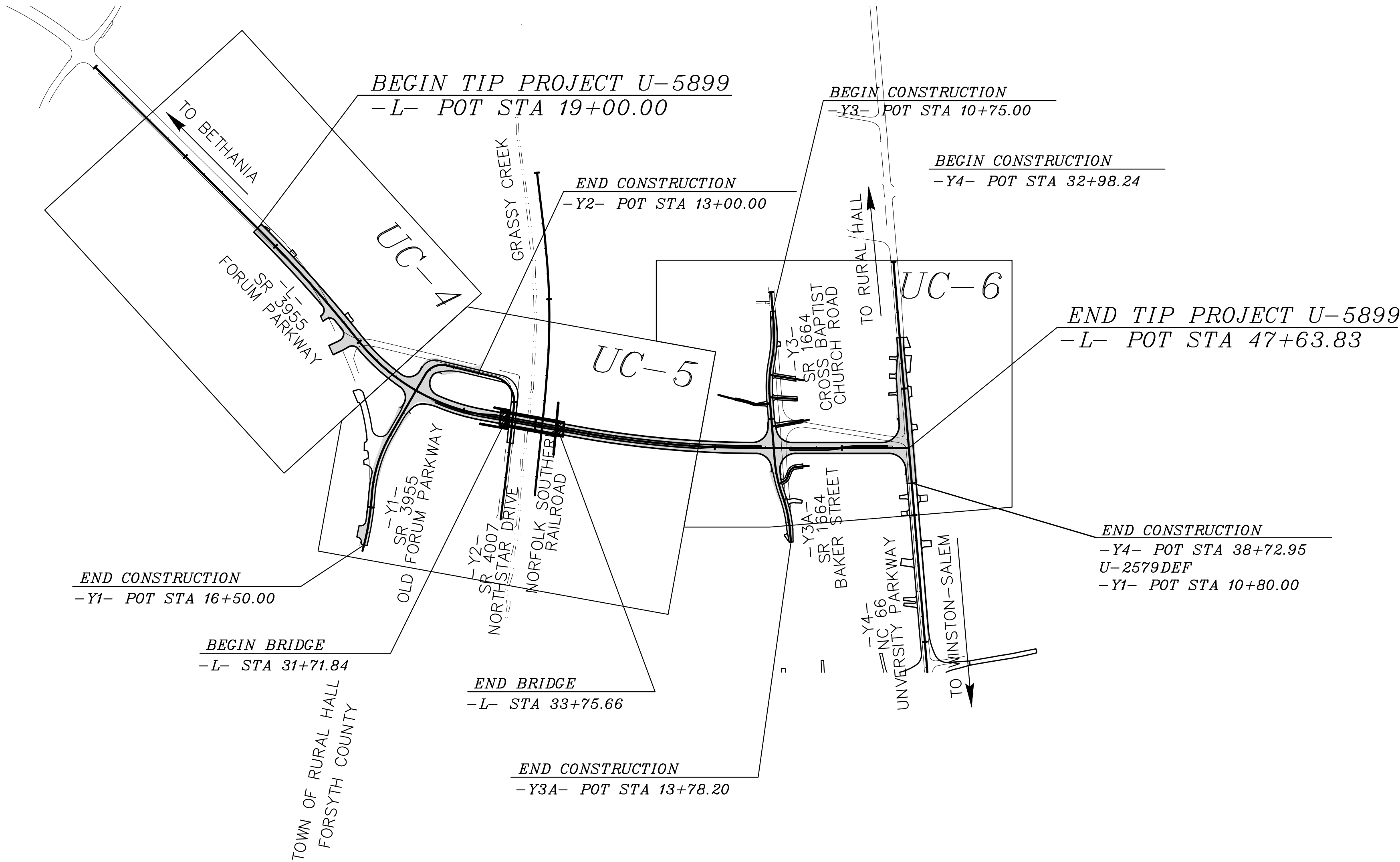
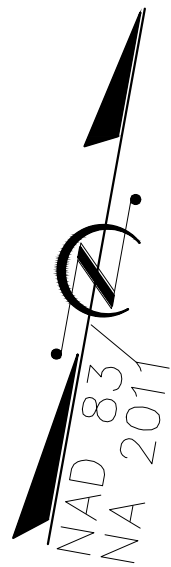
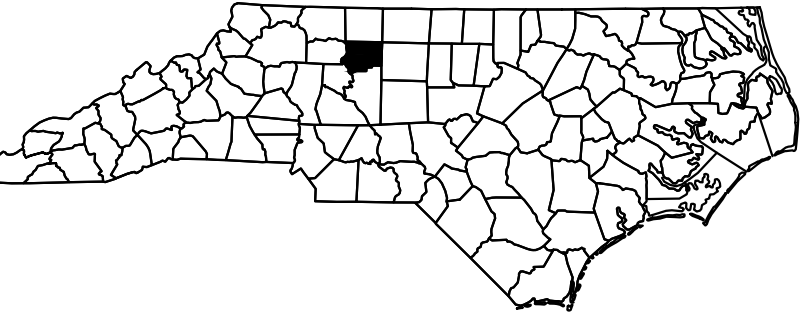
T.I.P. NO.	SHEET NO.
U-5899	UC-1

STATE OF NORTH CAROLINA
DIVISION OF HIGHWAYS

UTILITY CONSTRUCTION PLANS
FORSYTH COUNTY

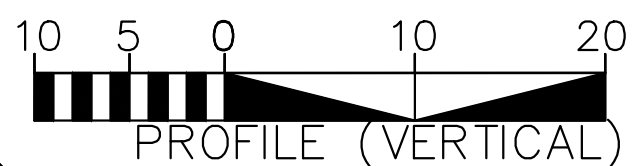
LOCATION: FORUM PARKWAY CONNECTOR FROM SR 3955 (FORUM PARKWAY) TO NC 66 (UNIVERSITY PARKWAY) IN RURAL HALL

TYPE OF WORK: GRADING, PAVING, DRAINAGE, AND STRUCTURE



A PORTION OF THIS PROJECT IS WITHIN THE MUNICIPAL LIMITS OF RURAL HALL, NC.

GRAPHIC SCALES



INDEX OF SHEETS

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UC-3	NOTES
UC-3A THRU UC-3B	DETAILS
UC-4 THRU UC-6	UTILITY PLAN SHEETS
UC-7 THRU UC-8	PROFILE SHEETS

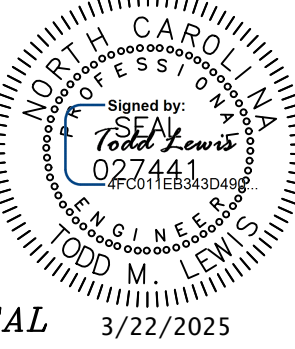
WATER AND SEWER OWNERS
ON PROJECT

WATER AND SANITARY SEWER -
WINSTON-SALEM/FORSYTH COUNTY
UTILITIES COMMISSION

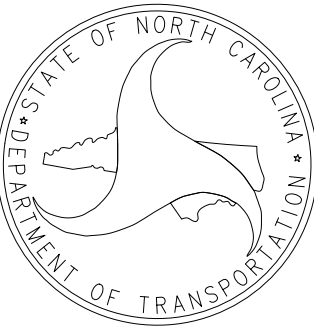
PREPARED IN THE OFFICE OF:
ENGINEERING DIVISION
CITY OF WINSTON-SALEM



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WINSTON-SALEM, NC 27102
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TODD LEWIS, PE PROJECT UTILITY ENGINEER



DIVISION OF HIGHWAYS
UTILITIES UNIT

1555 MAIL SERVICES CENTER
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PHONE: (919) 707-6690
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AMY DUPREE YORK CENTRAL UTILITIES MANAGER
ALI KOCHCKI, PE REGIONAL UTILITIES ENGINEER
JOSH McMAHAN SENIOR UTILITY COORDINATOR

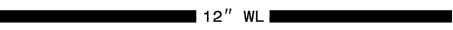

























5/14/99

PROJECT REFERENCE NO.	SHEET NO.
U-5899	UC-2

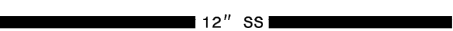
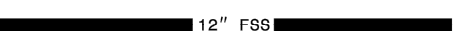


STATE OF NORTH CAROLINA
DIVISION OF HIGHWAYS

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	












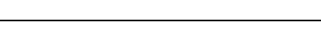







Thrust Block	
Air Release Valve	
Utility Vault	
Concrete Pier	
Steel Pier	
Plan Note	
Pay Item Note	

NOTE

PAY ITEM

EXISTING UTILITIES SYMBOLS

Power Pole	
Telephone Pole	
Joint Use Pole	
Utility Pole	
Utility Pole with Base	
H-Frame Pole	
Power Transmission Line Tower	
Water Manhole	
Power Manhole	
Telephone Manhole	
Sanitary Sewer Manhole	
Hand Hole for Cable	
Power Transformer	
Telephone Pedestal	
CATV Pedestal	
Gas Valve	
Gas Meter	
Located Miscellaneous Utility Object	
Abandoned According to Utility Records	
End of Information	

*Underground Power Line	
*Underground Telephone Cable	
*Underground Telephone Conduit	
*Underground Fiber Optics Telephone Cable	
*Underground TV Cable	
*Underground Fiber Optics TV Cable	
*Underground Gas Pipeline	
Aboveground Gas Pipeline	
*Underground Water Line	
Aboveground Water Line	
*Underground Gravity Sanitary Sewer Line	
Aboveground Gravity Sanitary Sewer Line	
*Underground SS Forced Main Line	
Underground Unknown Utility Line	
SUE Test Hole	
Water Meter	
Water Valve	
Fire Hydrant	
Sanitary Sewer Cleanout	

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

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REV: 2/1/2012

UTILITY CONSTRUCTION

PROJECT SPECIFIC NOTES:

- 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 AND APPROVED BY THE DEPARTMENT AND THE UTILITY OWNER.
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.

1. CONTRACTOR SHALL MAINTAIN CONTINUOUS WATER AND SEWER SERVICE TO EXISTING RESIDENCES AND BUSINESSES THROUGHOUT CONSTRUCTION OF THE PROJECT. ANY NECESSARY SERVICE INTERRUPTIONS SHALL BE PRECEDED BY A 24-HOUR ADVANCE NOTICE TO THE WINSTON-SALEM / FORSYTH COUNTRY UTILITIES DEPARTMENT.
2. ANY NECESSARY FIELD REVISIONS ARE SUBJECT TO REVIEW AND APPROVAL OF AN AMENDED PLAN AND/OR PROFILE BY THE WINSTON-SALEM / FORSYTH COUNTRY UTILITIES DEPARTMENT PRIOR TO CONSTRUCTION.
3. ALL VALVES 3" THROUGH 16" SHALL BE GATE VALVES.
4. THE CONTRACTOR SHALL CHECK THE INSIDE OF ALL SERVICE CONNECTION METER BOXES THAT ARE WITHIN THE LIMITS OF WATER MAINS TO BE ABANDONED. IF ANY METER BOX CONTAINS A METER, THE METER SHALL BE REMOVED AND RETURNED TO THE CITY OF WINSTON-SALEM'S UTILITIES CONSTRUCTION AND MAINTENANCE DIVISION AT 1550-B MARTIN LUTHER KING JR DRIVE. THE INVESTIGATION OF METERS AND ANY REMOVAL AND SUBSEQUENT DELIVERY TO THE CITY SHALL BE CONSIDERED INCIDENTAL TO THE WORK OF CLEARING AND GRUBBING.
5. MANHOLE RINGS AND COVERS SHALL BE TYPE 2, AS SHOWN IN THE DETAIL DRAWINGS, UNLESS OTHERWISE INDICATED ON THE PLANS.
6. ANY FIRE HYDRANT REMOVED FOR RELOCATION PURPOSES SHALL BE DELIVERED BY THE CONTRACTOR TO THE UTILITY OWNER'S CONSTRUCTION AND MAINTENANCE DEPARTMENT. THE CONTRACTOR SHALL FURNISH AND INSTALL A NEW HYDRANT.

2025

FLAT TOP SECTIONS USED SHALL BE DESIGNED TO SUPPORT A MINIMUM LOAD. USE OF A FLAT TOP MUST BE APPROVED BY THE ENGINEER.

SEE DETAIL DRAWING FOR "MANHOLE RING AND COVER TYPE 1" AND "MANHOLE RING AND COVER TYPE 2". TYPE 2 TO BE BOLTED TO CONE W/ 4" TYPE 304 STAINLESS STEEL EXPANSION ANCHORS (3/4" HULTI KWIK BOLT II OR APPROVED EQUAL).

MAX. 3 COURSES OF BRICK (8 IN.) OR 2"-5" GRADE RINGS MAY BE ADDED VERTICALLY (NOT ALLOWED WITH TYPE 2 RING & COVER).

SEE DETAIL DRAWING FOR "POLYPROPYLENE MANHOLE STEP". MAX 24" FROM TOP OF RING & COVER TO TOP STEP—TOP STEP MUST BE IN CONE SECTION.

ECCENTRIC CONE SECTION

STEPS NOT TO BE PLACED OVER INFLUENT OR 15" FLUENT PIPES. STEPS TO BE ALONG VERTICAL WALL SURFACE FROM SHELVE TO TOP OF CONE.

NOTE: DO NOT BOLT RING TO CONE IF DIRT OR CONCRETE SUBGRADE THE RING (EX: YARD, SHOULDER, ETC.).

FOUR FOOT MANHOLE TO BE USED FOR PIPE WITH A DIAMETER OF LESS THAN 18" UNLESS OTHERWISE SPECIFIED BY THE ENGINEER.

PRECAST CONCRETE MANHOLES SHALL CONFORM TO ASTM C-478. MANHOLES MUST BE ALLOWED TO CURE A MINIMUM OF 3 DAYS PRIOR TO SHIPMENT. THE DATE OF MANUFACTURE AND NAME OF MANUFACTURER SHALL BE ON ALL MANHOLE SECTIONS. CONCRETE SHALL BE 4,000 PSI. CIRCUMFERENTIAL REINFORCEMENT WILL BE PLACED AT A MINIMUM OF 0.12 SQ. IN. PER LINEAL FOOT.

DETAILS AND DIMENSIONS:

- TYPE 1 OR 2 RING AND COVER** (shown in detail view)
- 2'-0"** (height of top section)
- 16" O.C.** (spacing of riser section)
- 4'-0"** (height of main section)
- MAX. 22"** (height of section above base)
- 8"** (radius of base)
- BASE SECTION**
- RISER SECTION**
- BUTYL RUBBER GASKET UNDER RING AND ALL GRADE RINGS**
- 0-RING OR BUTYL RUBBER GASKET IN ALL JOINTS. JOINTS ON OUTSIDE OF MANHOLE TO BE WRAPPED WITH 6" WIDE BUTYL ADHESIVE TAPE. ALL JOINTS SHALL BE COMPLETELY FILLED WITH NON-SHRINK GROUT AFTER MANHOLE IS SET.**
- SEE DETAIL DRAWING FOR "FLEXIBLE MANHOLE CONNECTOR"**

N.T.S. REVISED 3-1-17
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C-10

PLAN

NEW SEWER LINE
SEE DETAIL DRAWING FOR "FLEXIBLE MANHOLE CONNECTOR"
WATERPROOFING
CONCRETE COLLAR
6" ALL AROUND PIPE (TYP.)
EXISTING SEWER LINE
SLOPE
SLOPE
SLOPE
FLUX
WATERPROOFING

1. PLACE HORSESHOE MH BASE IN WET CONCRETE (4000 PSI)
2. AFTER CONCRETE SETS, CORE HOLE & SET NEW SEWER LINE.
3. CUT OUT TOP HALF OF EXISTING PIPE. FINISH INVERTS
4. POUR CONCRETE COLLARS.

STABILIZATION STONE EXTENDED 12" PAST CONCRETE BASE OR TO THE UNDISTURBED EARTH.

SECTION

HORSESHOE MH BASE
NEW SEWER LINE
EXISTING SEWER LINE
CONCRETE BLOCKS—4 MAX.
STABILIZATION STONE
15"
12" MAX.
10"
8"
4" MIN.
4"
PLACE STABILIZATION STONE UNDER COLLAR OR POUR CONCRETE TO UNDISTURBED EARTH (TYPICAL).

CITY OF WINSTON-SALEM
DEPARTMENT OF PUBLIC WORKS
ENGINEERING DIVISION

N.T.S. REVISED 3-1-17

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R:\Data\Utility\Utility Spec Drawings\mh over existing line.dwg

C-13

The drawing consists of two views: a Plan view at the top and a Section view at the bottom.

Plan View: Shows a circular manhole structure. It includes a central circular opening, a surrounding concrete ring, and an outer flexible manhole connector. Arrows indicate the direction of flow. A note on the right lists three requirements: 1) Manhole shall be manufactured as per ASTM C-478. 2) Standard fall through manhole is 1" (.08") (including 6" connections into manhole). 3) 4" connections into manhole must have 4" of fall from connection invert to invert of manhole or 4" connection may come into manhole on top of the shelf. Exceptions will be noted on engineer's drawing. A 35° MIN. ANGLE is indicated for the connection.

Section View: Shows a cross-section of the manhole. It includes a central circular opening, a concrete ring, and an outer flexible manhole connector. Dimensions are provided: 4'-0" OR 5'-0" for the overall width, 5 1/2" for the height of the concrete ring, 18" for the height of the manhole, 5" SLOPE for the bottom, 1/2" for the thickness of the concrete ring, and 12" for the height of the flexible manhole connector. A note indicates that the riser sections and come to be added as per detail drawings for 4 foot and 5 foot precast reinforced concrete manholes. A note at the bottom indicates that the MIN. BOTTOM 6" at C/L.

Section:

CITY OF WINSTON-SALEM
DEPARTMENT OF PUBLIC WORKS
ENGINEERING DIVISION

N.T.S. REVISED 3-1-17
R:\Data\Utility\Utility Spec Drawings\precast mh with precast invert.dwg

C-16

N.T.S. REVISED 3-1-17
R:\Data\Utility\Utility Spec Drawings\flexible mh connector.dwg

C-17

SANITARY SEWER
 DETAIL "C" C
 MACHined GROOVES
 TOP OF COVER
 BOTTOM OF COVER
 WATER
 DETAIL "B" B"

4 - 1" DIA. ANCHOR HOLES
 2 - 1/2" x 1 3/4" HERFHEAD, STAINLESS STEEL BOLTS AT 180° COUNTERSUNK. BOLTS TO BE TYPE 316 STAINLESS STEEL.
 NOTE: TWO HOLES TO BE SPACED OPPOSITE TO EACH OTHER IN THE OUTER RING AS SHOWN. (HOLES TO BE 1" DIAMETER).
 NOTE: RING AND COVER WILL HAVE MACHINED SEAT AND WILL CONFORM TO ASTM A44, CLASS 35B. RING AND COVER WILL BE DESIGNED TO SUPPORT AN H-20 WHEEL LOAD.

PLAN

MINIMUM AVERAGE WEIGHTS
 RING 190 LBS.
 COVER 120 LBS.
 310 LBS.

3/4"
 25 1/4"
 23 3/4"
 23 1/2"
 2 1/8"
 1"
 2 3/4"
 3/8"
 3 3/4"
 22 1/4"
 4 3/8"
 24 1/2"
 33 1/4"
 1 1/2"
 7 1/2"

SECTION

CITY OF WINSTON-SALEM
 DEPARTMENT OF PUBLIC WORKS
 ENGINEERING DIVISION

N.T.S. REVISED 3-1-17

N.T.S. REVISED 3-1-17

C-19

Technical drawing of a manhole structure, showing front, side, and detail views with dimensions and material specifications.

Front View Dimensions:

- Top flange width: $1\frac{1}{8}"$
- Overall height: $9\frac{1}{8}"$
- Internal width: $10\frac{3}{4}"$
- Base width: $12"$
- Section line A-A

Side View Dimensions:

- Top flange width: $1\frac{1}{4}"$
- Internal height: $3\frac{3}{8}"$

Detail View Dimensions:

- MIN. 5" WALL
- 3" MIN.
- 5 1/2" MIN.

Material Specifications:

- 1/2" GRADE 60 STEEL REINFORCEMENT
- COPOLYMER POLYPROPYLENE PLASTIC

SECTION A-A

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 ENGINEERING DIVISION

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C-21

NOTES:

1. VALVE BOX WILL CONFORM TO ASTM A48, CLASS 30 B
2. MINIMUM WEIGHTS:
COVER..... 29 LBS.
TOP SECTION..... 60 LBS.
BOTTOM SECTION..... 40 LBS.
TOTAL..... 138 LBS.

VALVE BOX COVER

SECTION A-A

SECTION B-B

TOP SECTION

BOTTOM SECTION

CITY OF WINSTON-SALEM
DEPARTMENT OF PUBLIC WORKS
ENGINEERING DIVISION

N.T.S. REVISED 3-1-17

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C-39

8" PVC SCH 40,
 160 PSL ASTM
 D1785 OR 8" D.I.

CONCRETE PAD
 6"

4"

4"

TOP SECTION

BOTTOM SECTION (OPTIONAL)

NOTES:

1. WHEN VALVE IS IN PAVEMENT, TOP OF CONCRETE PAD TO BE AT ELEVATION OF BOTTOM OF SURFACE COURSE.
2. WHEN VALVE IS ON GRAVEL OR DIRT STREET, TOP OF CONCRETE PAD TO BE AT FINISH GRADE.
3. CAST IRON VALVE BOX WILL CONFORM TO ASTM A48, CLASS 30B AND DETAIL DRAWING.
4. TWO (2) BRICKS ARE TO BE PLACED AS SHOWN UNDER PIPE IF 160 BRICKS SHALL NOT REST ON VALVE BONNET, (PLACE BRICKS ON FLAT SIDE OF BONNET).

PIPE SHALL EXTEND TO BOTTOM OF STUFFING BOX OF VALVE.

BRICK

CITY OF WINSTON-SALEM
 DEPARTMENT OF PUBLIC WORKS
 ENGINEERING DIVISION

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N.T.S. REVISED 3-1-17
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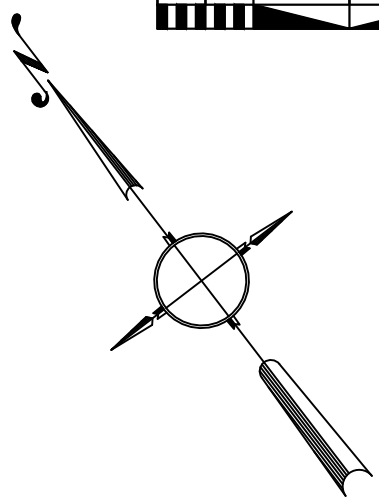
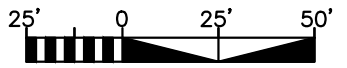
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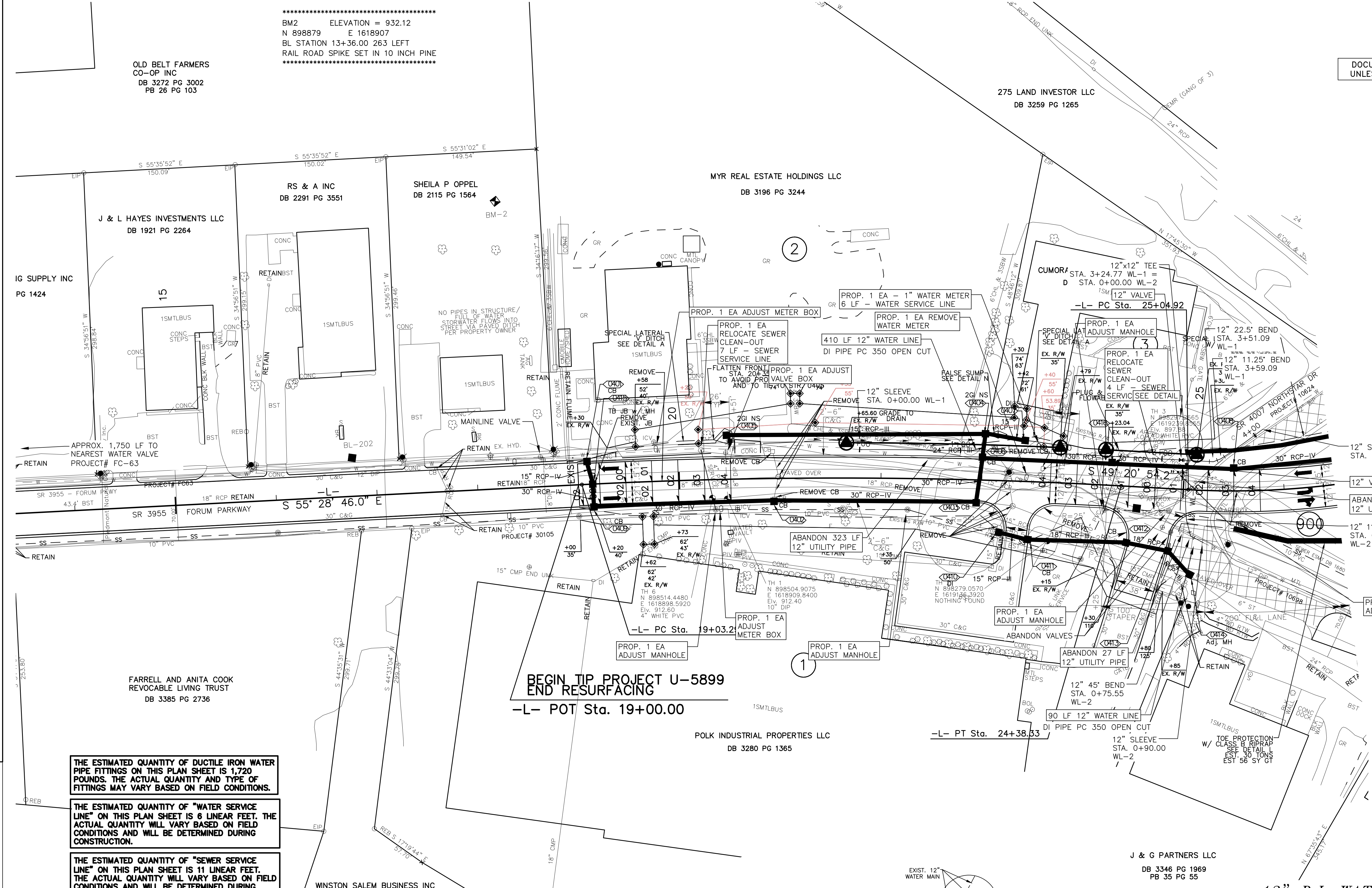
SHEET NO.
UC-4

UTILITY
CONSTRUCTION
PLANS ONLY

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UNLESS ALL SIGNATURES COMPLETE



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SEE SHEET UC-5

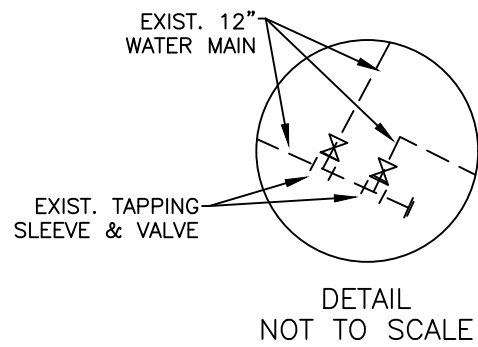


THE ESTIMATED QUANTITY OF DUCTILE IRON WATER PIPE FITTINGS ON THIS PLAN SHEET IS 1,720 POUNDS. THE ACTUAL QUANTITY AND TYPE OF FITTINGS MAY VARY BASED ON FIELD CONDITIONS.

THE ESTIMATED QUANTITY OF "WATER SERVICE LINE" ON THIS PLAN SHEET IS 6 LINEAR FEET. THE ACTUAL QUANTITY WILL VARY BASED ON FIELD CONDITIONS AND WILL BE DETERMINED DURING CONSTRUCTION.

THE ESTIMATED QUANTITY OF "SEWER SERVICE LINE" ON THIS PLAN SHEET IS 11 LINEAR FEET. THE ACTUAL QUANTITY WILL VARY BASED ON FIELD CONDITIONS AND WILL BE DETERMINED DURING CONSTRUCTION.

NOTE :
FOR WL-1 PROFILE, SEE SHEET UC-7
FOR WL-2 PROFILE, SEE SHEET UC-7



CITY OF WINSTON-SALEM
PERMIT NUMBER
WATER 3331
SEWER 3331
DATE 4/10/24

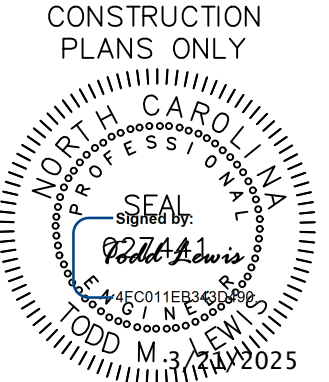
12" D.I. WATER MAIN
RELOCATION - PROJECT 74378

9378

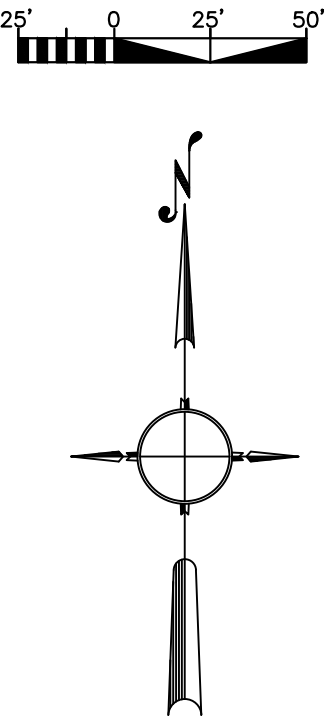
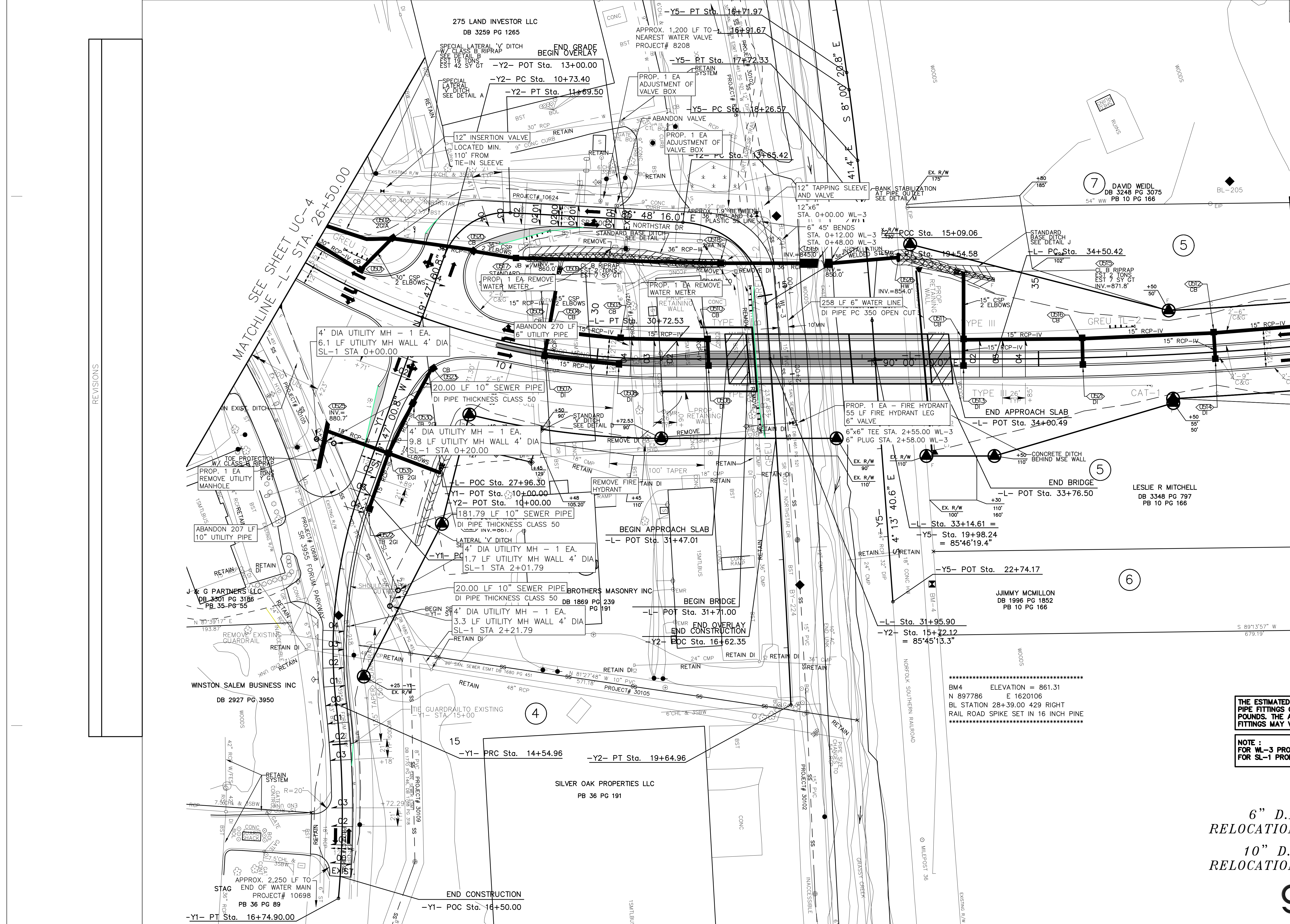
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SHEET NO.
UC-5

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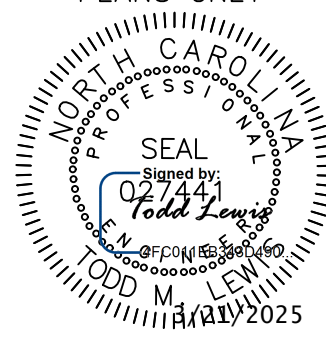


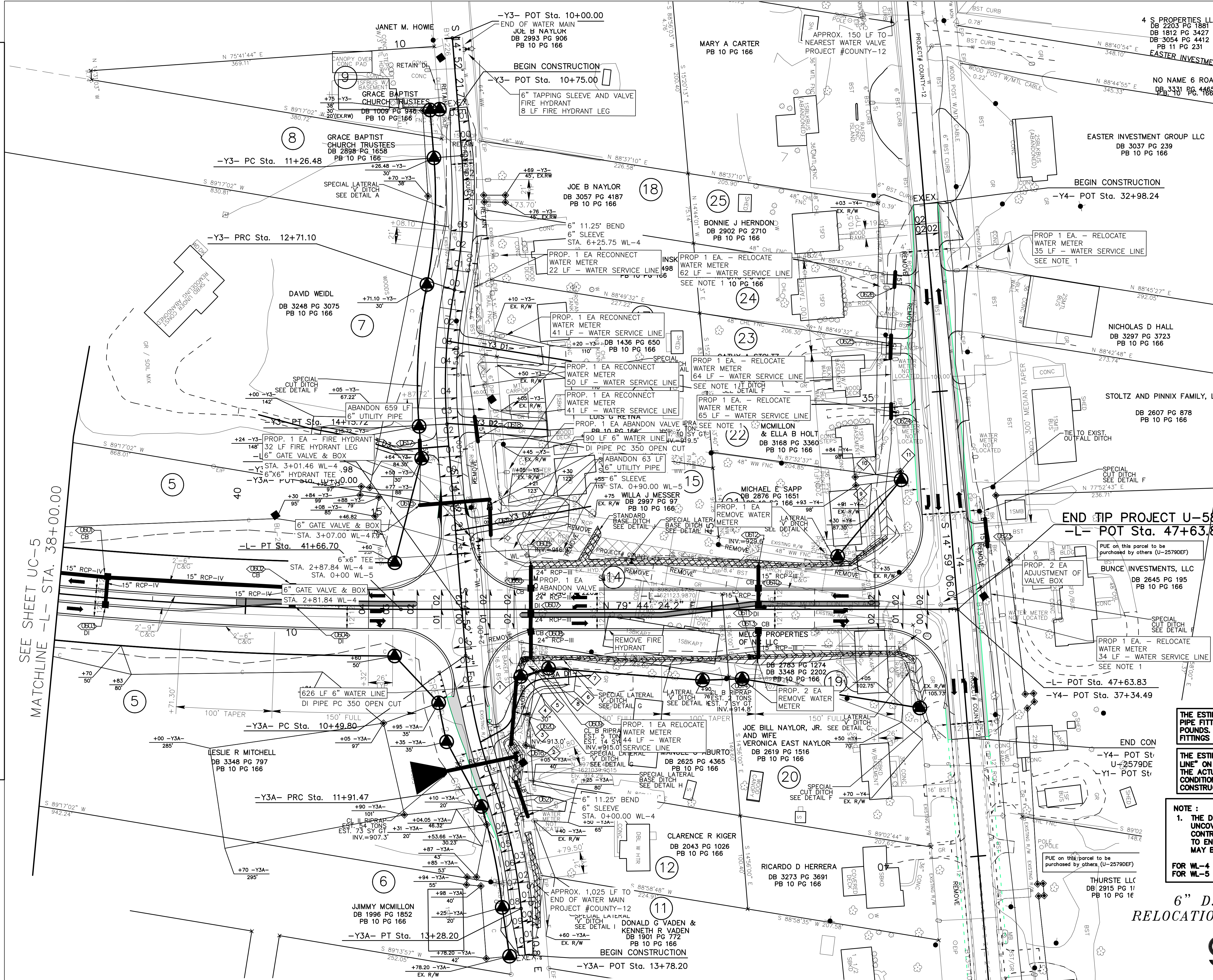
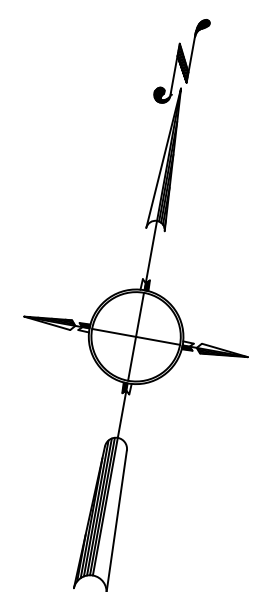
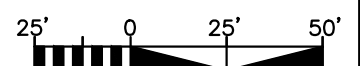
THE ESTIMATED QUANTITY OF DUCTILE IRON WATER PIPE FITTINGS ON THIS PLAN SHEET IS 300 POUNDS. THE ACTUAL QUANTITY AND TYPE OF FITTINGS MAY VARY BASED ON FIELD CONDITIONS.

NOTE :
FOR WL-3 PROFILE, SEE SHEET UC-7
FOR SL-1 PROFILE, SEE SHEET UC-7

6" D.I. WATER MAIN
RELOCATION - PROJECT 74378
10" D.I. SEWER MAIN
RELOCATION - PROJECT 75378

9378

PROJECT REFERENCE NO.		SHEET NO.	
U-5899		UC-6	
		UTILITY CONSTRUCTION PLANS ONLY	
			
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SEE SHEET UC-5
MATCHLINE -L- STA. 38+00.00

THE ESTIMATED QUANTITY OF DUCTILE IRON WATER PIPE FITTINGS ON THIS PLAN SHEET IS 895 POUNDS. THE ACTUAL QUANTITY AND TYPE OF FITTINGS MAY VARY BASED ON FIELD CONDITIONS.

THE ESTIMATED QUANTITY OF "WATER SERVICE LINE" ON THIS PLAN SHEET IS 458 LINEAR FEET. THE ACTUAL QUANTITY WILL VARY BASED ON FIELD CONDITIONS AND WILL BE DETERMINED DURING CONSTRUCTION.

NOTE :

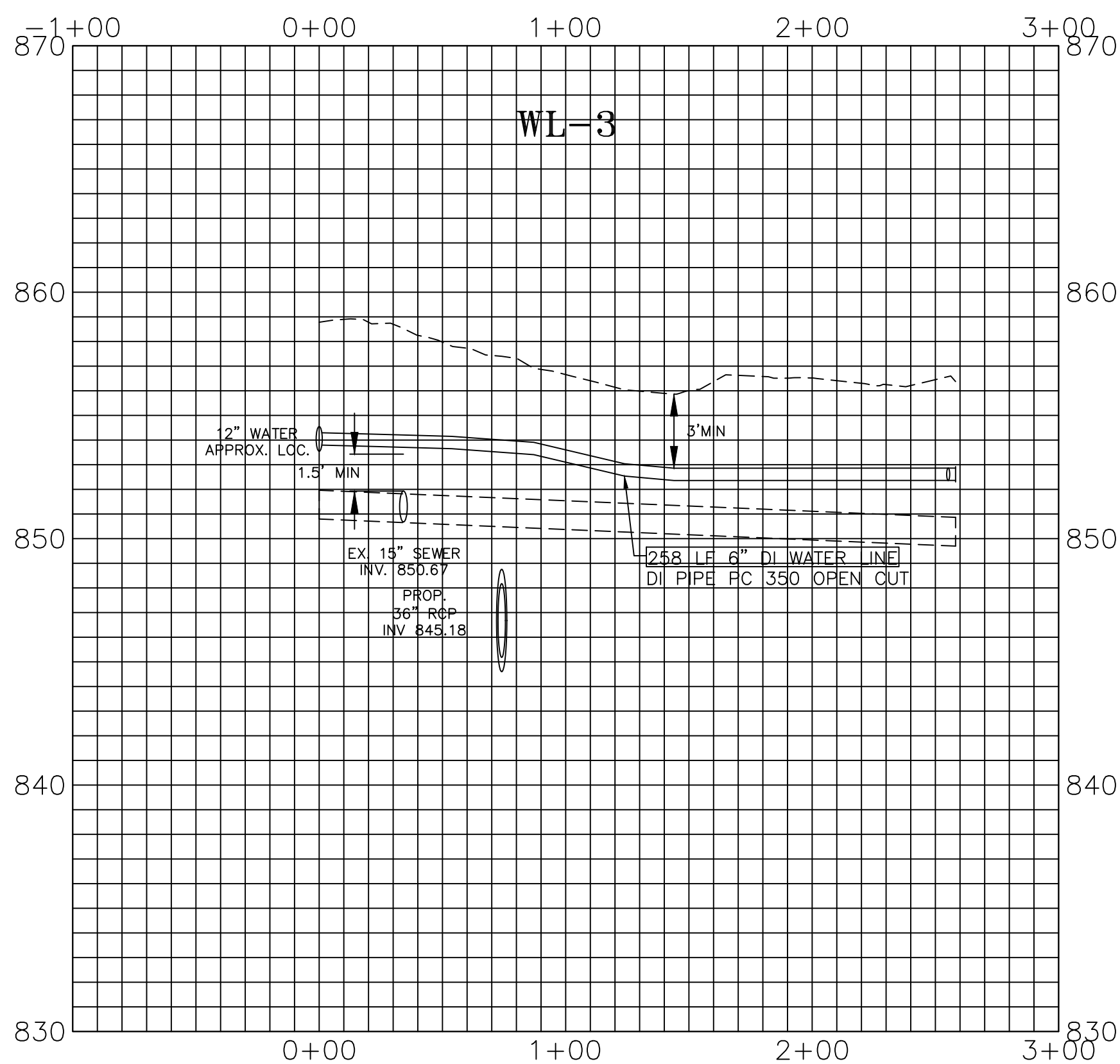
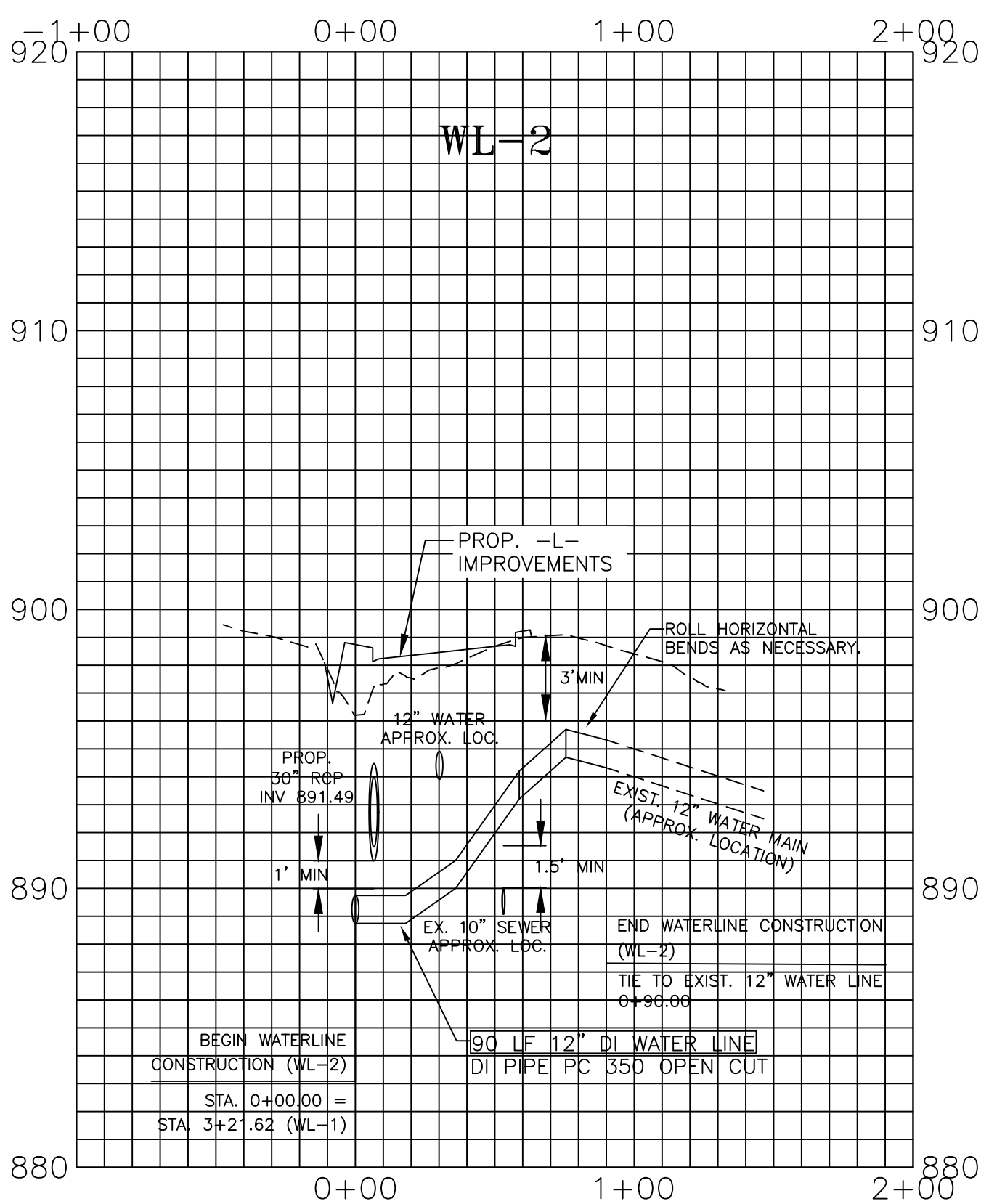
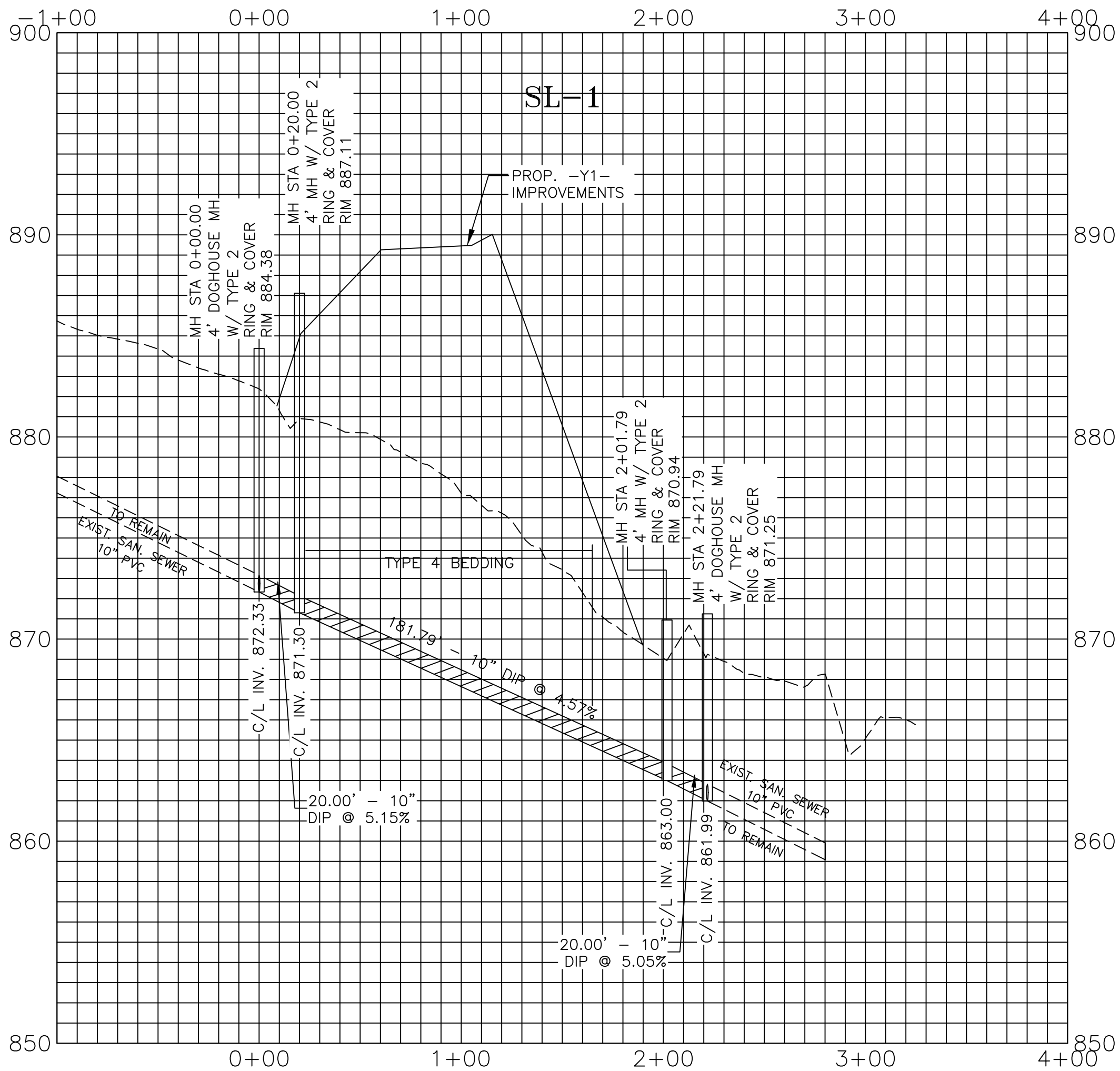
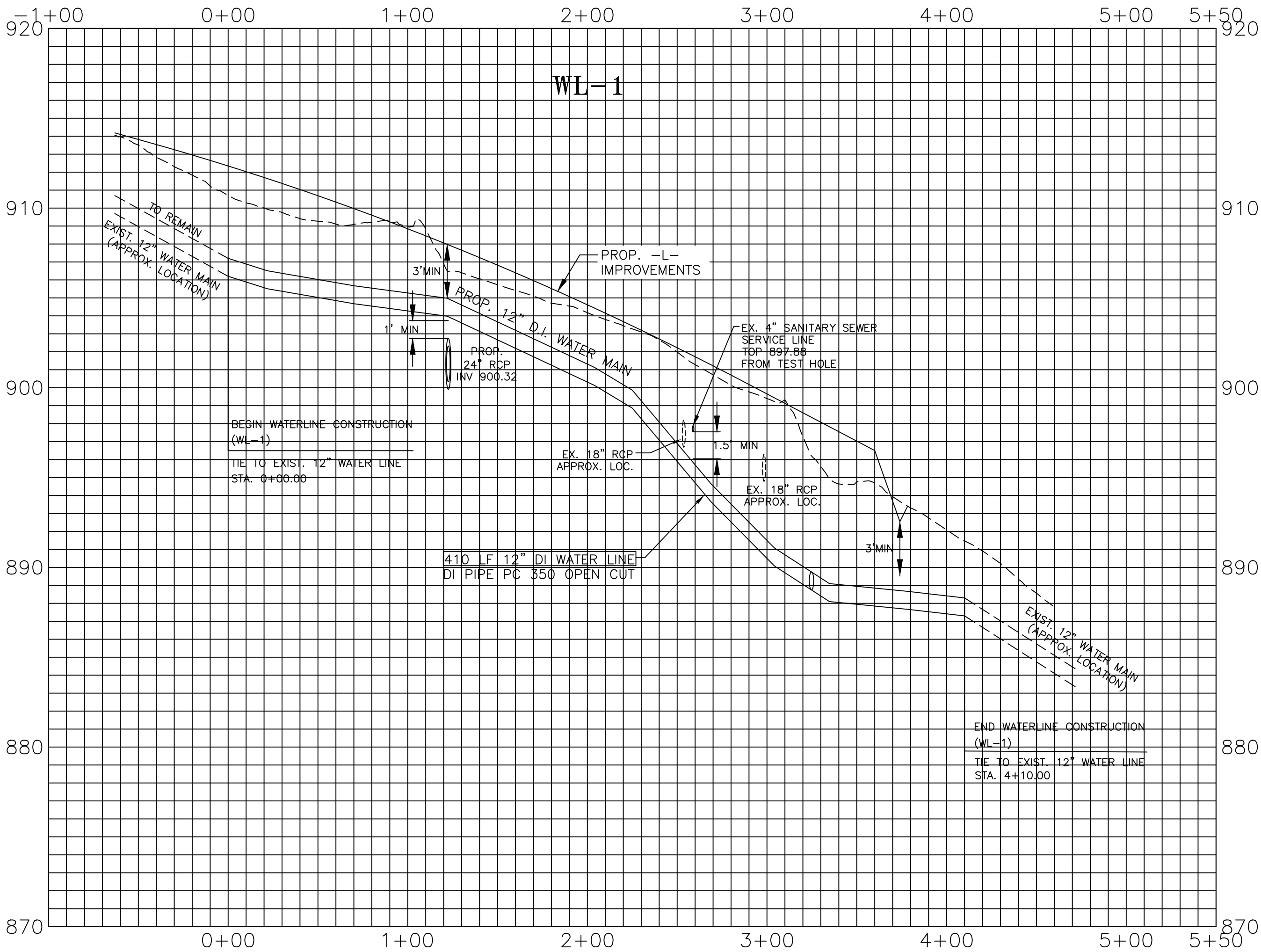
1. THE DITCH CONSTRUCTION WILL MOST LIKELY UNCOVER THE WATER SERVICE LINE. THE CONTRACTOR IS TO MAKE VERTICAL ADJUSTMENTS TO ENSURE ADEQUATE COVER. PLUMBING PERMITS MAY BE REQUIRED FOR THIS WORK.

FOR WL-4 PROFILE, SEE SHEET UC-8
FOR WL-5 PROFILE, SEE SHEET UC-8

6" D.I. WATER MAIN
RELOCATION - PROJECT 74378

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REVISIONS



NOTE :
FOR WL-1 PLAN, SEE SHEET UC-4
FOR WL-2 PLAN, SEE SHEET UC-4
FOR WL-3 PLAN, SEE SHEET UC-5
FOR SL-1 PLAN, SEE SHEET UC-5

12" & 6" D.I. WATER MAIN
RELOCATION - PROJECT 74378

10" D.I. SEWER MAIN
RELOCATION - PROJECT 75378

9378

PROJECT REFERENCE NO.
U-5899

SHEET NO.
UC-7

UTILITY
CONSTRUCTION
PLANS ONLY

SEAL

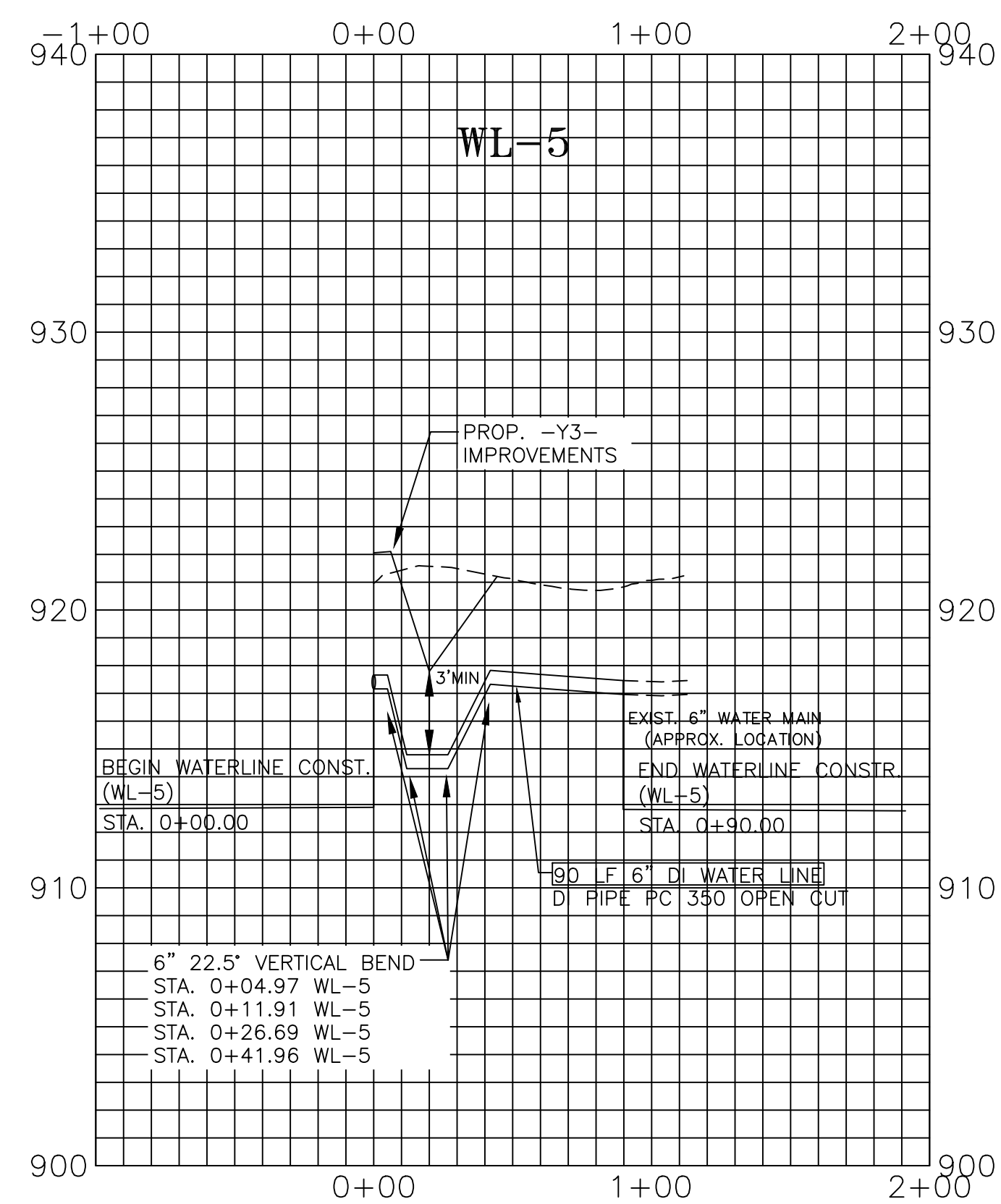
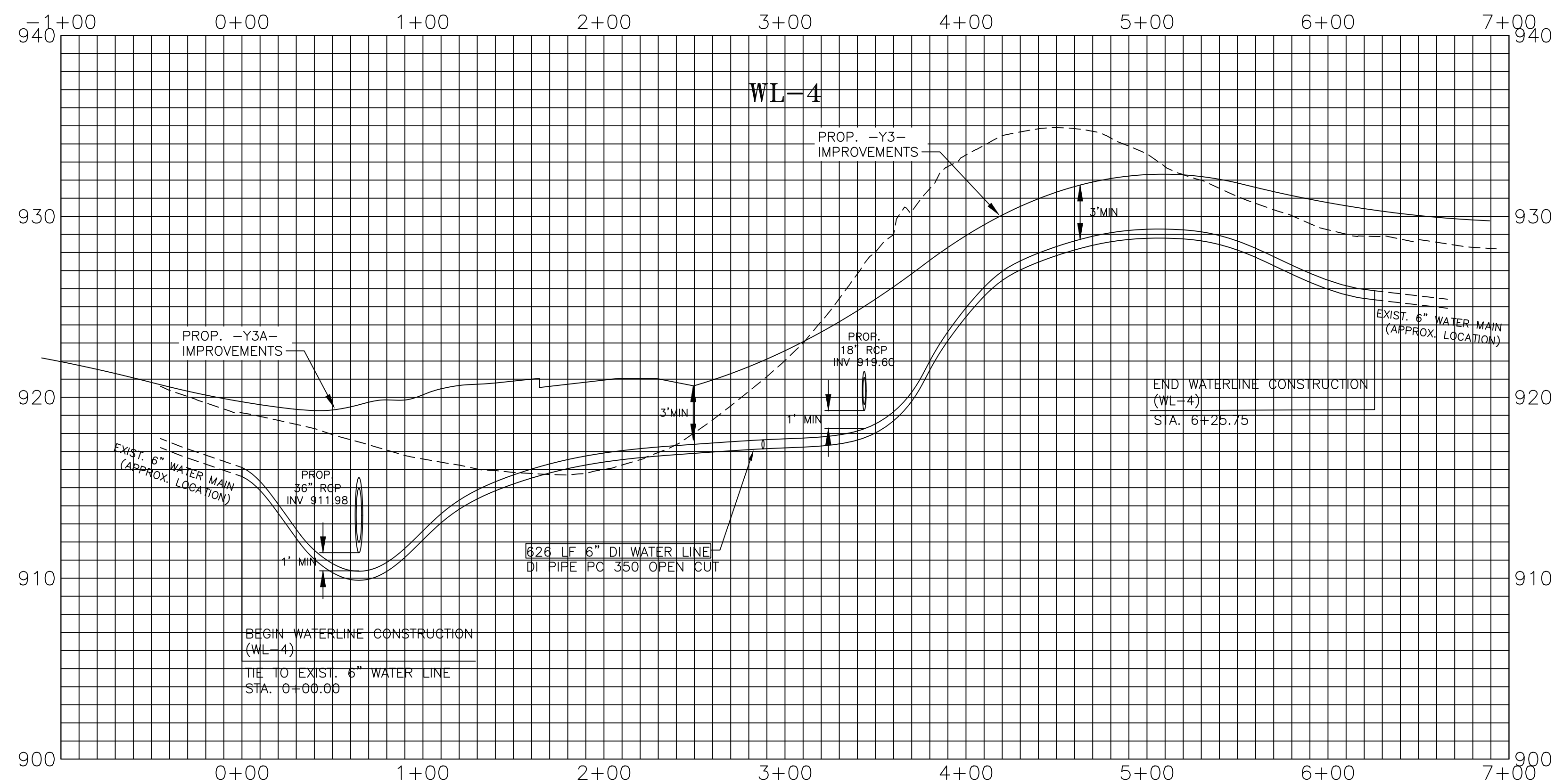
Signature

Professional Engineer

TOOD M. 3/25/2025

DOCUMENT NOT CONSIDERED FINAL
UNLESS ALL SIGNATURES COMPLETE






PROJECT REFERENCE NO.	SHEET NO.
U-5899	UC-8
	UTILITY CONSTRUCTION PLANS ONLY
	
DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETE	

Figure 1 is a cross-sectional diagram of a road. It shows a central road section with a width of 0 feet, flanked by two shoulders, each 25 feet wide. The total width of the road is 50 feet. The diagram is labeled with dimensions: 25' on the left, 0 in the center, 25' on the right, and 50' at the far right.

NOTE :
FOR WL-4 PLAN, SEE SHEET UC-6
FOR WL-5 PLAN, SEE SHEET UC-6

6" D.I. WATER MAIN
RELOCATION - PROJECT 74378

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