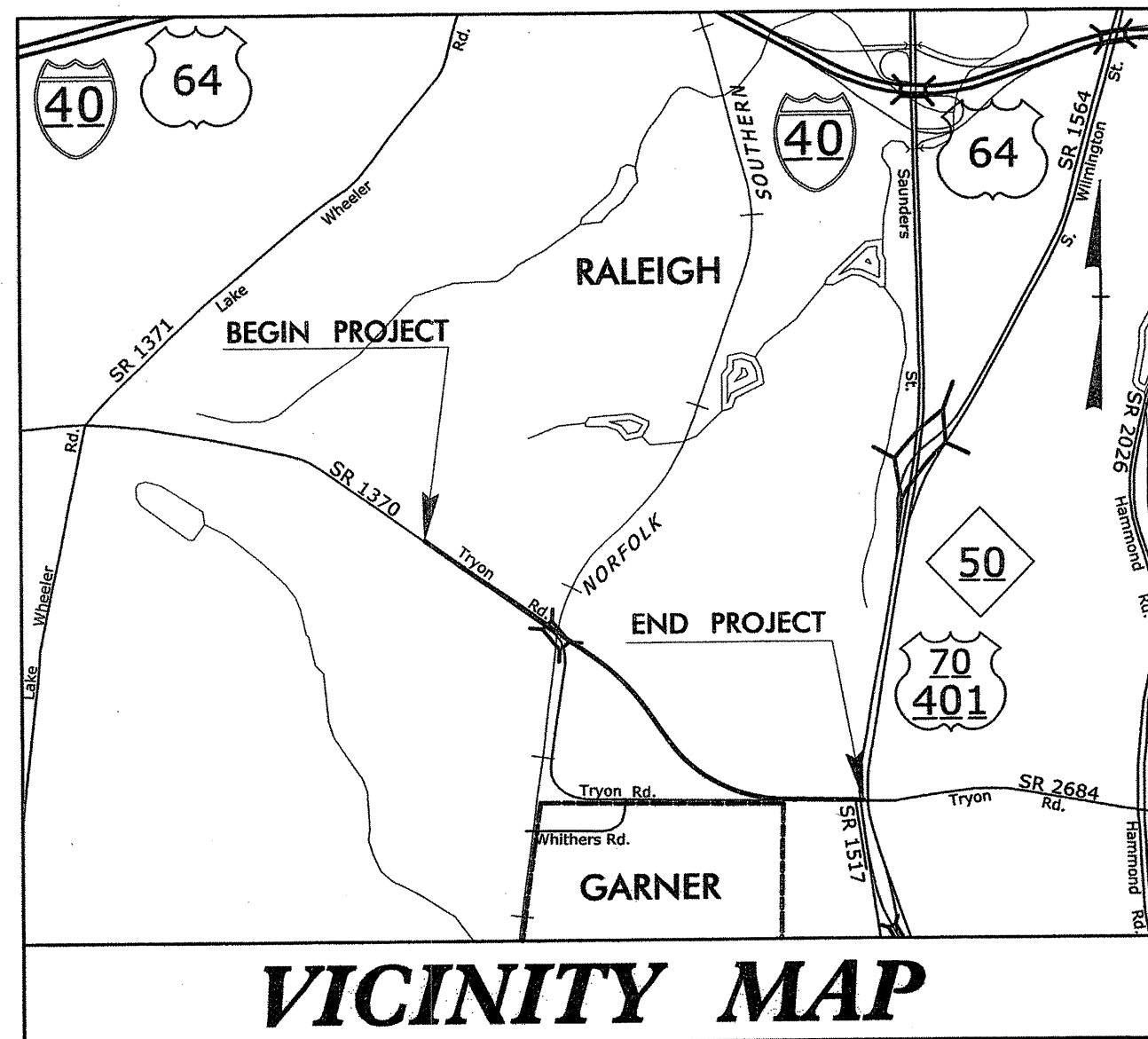


09/08/99

TIP PROJECT: U-4432



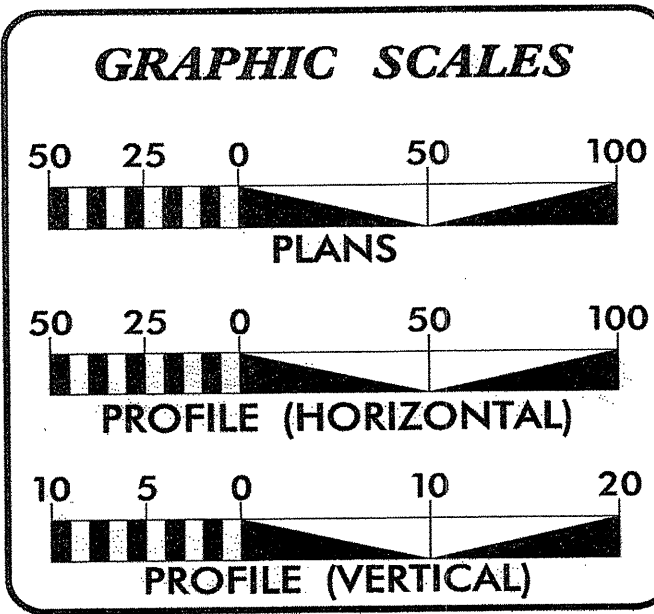
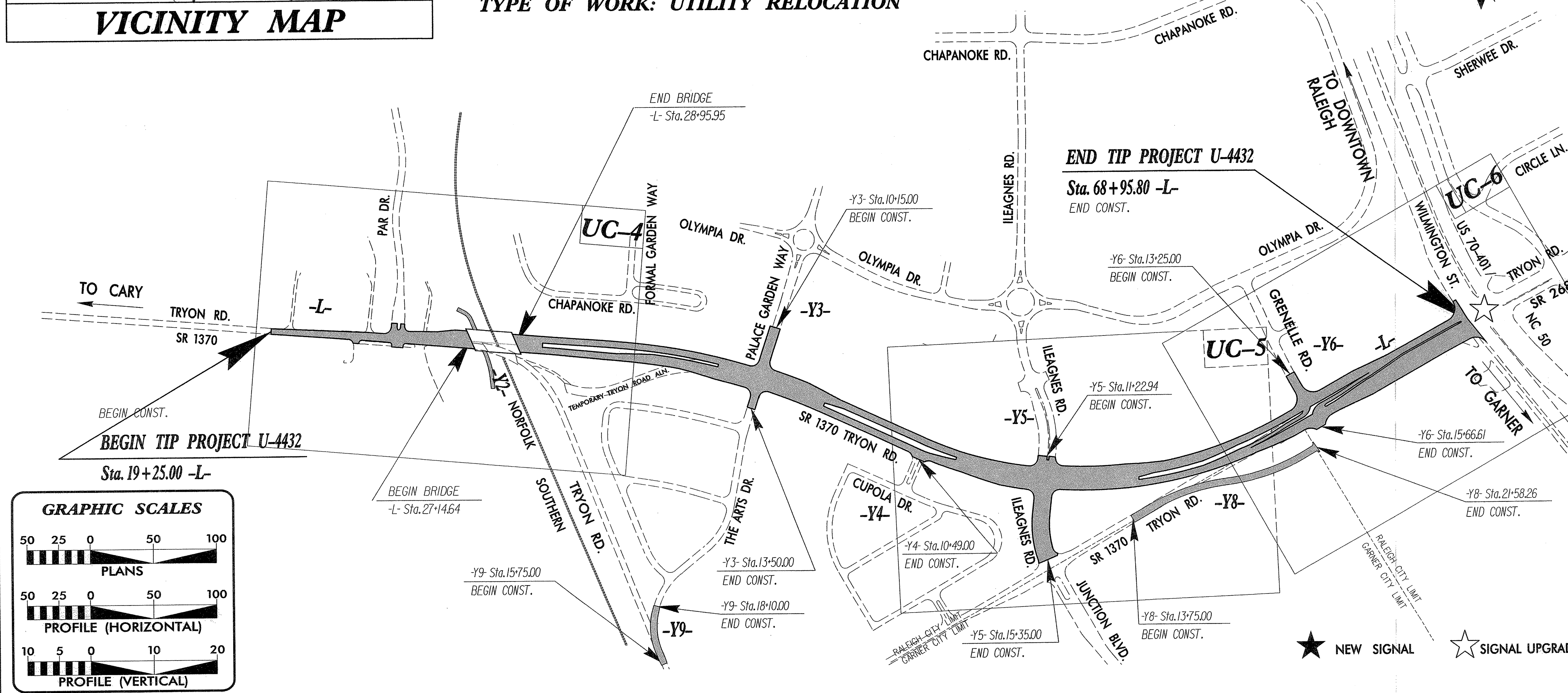
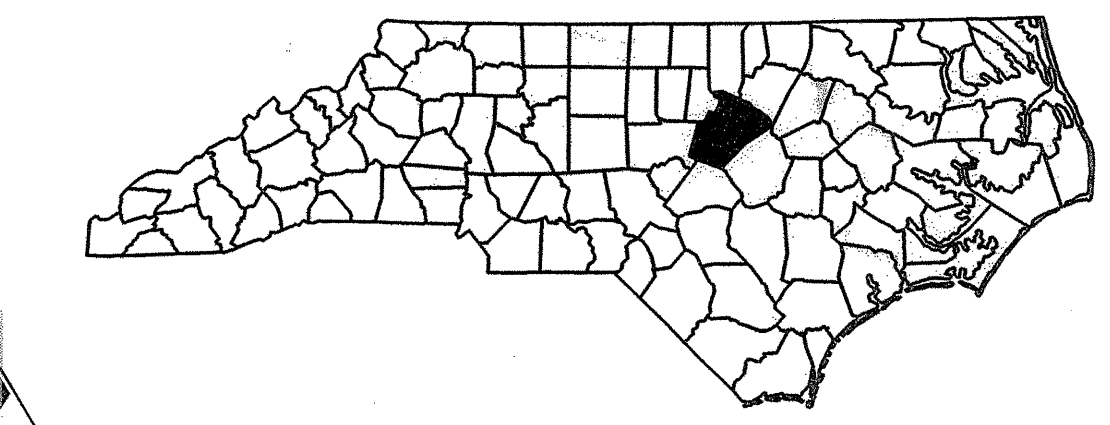
STATE OF NORTH CAROLINA
DIVISION OF HIGHWAYS

UTILITY CONSTRUCTION PLANS
WAKE COUNTY

LOCATION: RALEIGH - SR 1370 (TRYON ROAD) FROM WEST OF
BRIDGE No. 259 TO US 70-401 / NC 50 (WILMINGTON STREET)

TYPE OF WORK: UTILITY RELOCATION

T.I.P. NO.	SHEET NO.
U-4432	UC-1



Public Water Collection / Extension System

The City of Raleigh consents to the connection and extension of the City's public water system as shown on this plan. The material and construction methods used for this project shall conform to the standards and specifications of the City's Public Utilities Handbook.

City of Raleigh
Public Utilities Department Permit # W-7159 REV
Authorization to Construct *Paul Brown*
Date 10-8-13

Public Sewer Collection / Extension System

The City of Raleigh consents to the connection and extension of the City's public sewer system as shown on this plan. The material and construction methods used for this project shall conform to the standards and specifications of the City's Public Utilities Handbook.

City of Raleigh
Public Utilities Department Permit # S-3870 REV
Authorization to Construct *Paul Brown*
Date 10-8-13

ATTENTION CONTRACTORS

The Construction Contractor responsible for the extension of water and sewer, and/or reuse, as approved in these plans, is responsible for contacting the Public Utilities Department at (919) 998-4540 and the Public Utilities Department at (919) 998-4540 at least twenty-four hours prior to beginning any of their construction.

Failure to notify both City Departments in advance of beginning construction, will result in the issuance of monetary fines, and require reinstallation of any water or sewer facilities not inspected as a result of this notification failure.

Failure to call for Inspection, Install a Downstream Plug, have Permitted Plans on the Jobsite, or any other Violation of City of Raleigh Standards will result in a Fine and Possible Exclusion from future work in the City of Raleigh.

ATTENTION CONTRACTORS

The Construction Contractor responsible for sewer pump stations and force mains, as approved in these plans, is responsible for contacting the Public Utilities Department at (919) 998-4540 and the Public Utilities Department at (919) 998-4540 at least twenty-four hours prior to beginning any of their construction.

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Failure to call for Inspection, Install a Downstream Plug, have Permitted Plans on the Jobsite, or any other Violation of City of Raleigh Standards will result in a Fine and Possible Exclusion from future work in the City of Raleigh.

UTILITY CONSTRUCTION PLANS DESIGNED BY:

THE WOOTEN COMPANY
ENGINEERING | PLANNING | ARCHITECTURE
120 North Boylan Avenue Raleigh, NC 27603-1423
919.828.0531 fax 919.834.3589
License Number: F-0115

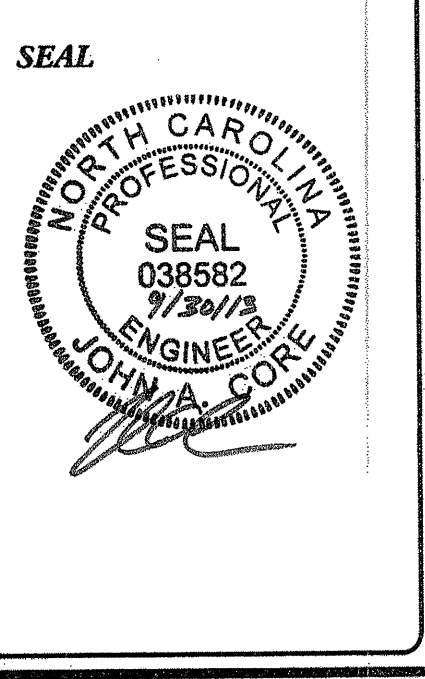
John A. Core, P.E. UTILITIES PROJECT MANAGER

INDEX OF SHEETS

SHEET NO.	DESCRIPTION
UC-1	TITLE SHEET
UC-1A	NCDOT CONVENTIONAL PLAN SHEET SYMBOLS
UC-2	GENERAL NOTES
UC-3 & UC-3A	DETAIL SHEET(S)
UC-4 THUR UC-6	UTILITY CONSTRUCTION PLAN SHEETS

UTILITY OWNERS ON PROJECT

(1) CITY OF RALEIGH (WATER & SEWER)



**DIVISION OF HIGHWAYS
UTILITIES ENGINEERING
SECTION**

1591 MAIL SERVICES CENTER
RALEIGH, NC 27699-1591
PHONE (919) 256-4128
FAX (919) 256-4119

Steve McKee UTILITIES SQUAD LEADER
John Nigro SENIOR UTILITIES ENGINEER
Roger Worthington UTILITIES SECTION ENGINEER

Note: Not to Scale
*S.U.E. = Subsurface Utility Engineering

STATE OF NORTH CAROLINA
DIVISION OF HIGHWAYS

CONVENTIONAL PLAN SHEET SYMBOLS

UTILITY CONSTRUCTION PLANS DESIGNED BY: THE WOOTEN COMPANY
PROJECT REFERENCE NO. U-4432
SHEET NO. UC - 1A
NORTH CAROLINA PROFESSIONAL SEAL 038582 7/30/13

BOUNDARIES AND PROPERTY:

- State Line
County Line
Township Line
City Line
Reservation Line
Property Line
Existing Iron Pin
Property Corner
Property Monument
Parcel/Sequence Number
Existing Fence Line
Proposed Woven Wire Fence
Proposed Chain Link Fence
Proposed Barbed Wire Fence
Existing Wetland Boundary
Proposed Wetland Boundary
Existing Endangered Animal Boundary
Existing Endangered Plant Boundary
Known Soil Contamination: Area or Site
Potential Soil Contamination: Area or Site

BUILDINGS AND OTHER CULTURE:

- Gas Pump Vent or U/G Tank Cap
Sign
Well
Small Mine
Foundation
Area Outline
Cemetery
Building
School
Church
Dam

HYDROLOGY:

- Stream or Body of Water
Hydro, Pool or Reservoir
Jurisdictional Stream
Buffer Zone 1
Buffer Zone 2
Flow Arrow
Disappearing Stream
Spring
Wetland
Proposed Lateral, Tail, Head Ditch
False Sump

RAILROADS:

- Standard Gauge
RR Signal Milepost
Switch
RR Abandoned
RR Dismantled

RIGHT OF WAY:

- Baseline Control Point
Existing Right of Way Marker
Existing Right of Way Line
Proposed Right of Way Line
Proposed Right of Way Line with Iron Pin and Cap Marker
Proposed Right of Way Line with Concrete or Granite Marker
Existing Control of Access
Proposed Control of Access
Existing Easement Line
Proposed Temporary Construction Easement
Proposed Temporary Drainage Easement
Proposed Permanent Drainage Easement
Proposed Permanent Drainage / Utility Easement
Proposed Permanent Utility Easement
Proposed Temporary Utility Easement
Proposed Aerial Utility Easement
Proposed Permanent Easement with Iron Pin and Cap Marker

ROADS AND RELATED FEATURES:

- Existing Edge of Pavement
Existing Curb
Proposed Slope Stakes Cut
Proposed Slope Stakes Fill
Proposed Curb Ramp
Existing Metal Guardrail
Proposed Guardrail
Existing Cable Guiderail
Proposed Cable Guiderail
Equality Symbol
Pavement Removal

VEGETATION:

- Single Tree
Single Shrub
Hedge
Woods Line

- Orchard
Vineyard

EXISTING STRUCTURES:

- MAJOR: Bridge, Tunnel or Box Culvert
Bridge Wing Wall, Head Wall and End Wall
MINOR: Head and End Wall
Pipe Culvert
Footbridge
Drainage Box: Catch Basin, DI or JB
Paved Ditch Gutter
Storm Sewer Manhole
Storm Sewer

UTILITIES:

- POWER: Existing Power Pole
Proposed Power Pole
Existing Joint Use Pole
Proposed Joint Use Pole
Power Manhole
Power Line Tower
Power Transformer
U/G Power Cable Hand Hole
H-Frame Pole
Recorded U/G Power Line
Designated U/G Power Line (S.U.E.*)
TELEPHONE: Existing Telephone Pole
Proposed Telephone Pole
Telephone Manhole
Telephone Booth
Telephone Pedestal
Telephone Cell Tower
U/G Telephone Cable Hand Hole
Recorded U/G Telephone Cable
Designated U/G Telephone Cable (S.U.E.*)
Recorded U/G Telephone Conduit
Designated U/G Telephone Conduit (S.U.E.*)
Recorded U/G Fiber Optics Cable
Designated U/G Fiber Optics Cable (S.U.E.*)

WATER:

- Water Manhole
Water Meter
Water Valve
Water Hydrant
Recorded U/G Water Line
Designated U/G Water Line (S.U.E.*)
Above Ground Water Line

TV:

- TV Satellite Dish
TV Pedestal
TV Tower
UG TV Cable Hand Hole
Recorded U/G TV Cable
Designated U/G TV Cable (S.U.E.*)
Recorded U/G Fiber Optic Cable
Designated U/G Fiber Optic Cable (S.U.E.*)

GAS:

- Gas Valve
Gas Meter
Recorded U/G Gas Line
Designated U/G Gas Line (S.U.E.*)
Above Ground Gas Line

SANITARY SEWER:

- Sanitary Sewer Manhole
Sanitary Sewer Cleanout
U/G Sanitary Sewer Line
Above Ground Sanitary Sewer
Recorded SS Forced Main Line
Designated SS Forced Main Line (S.U.E.*)

MISCELLANEOUS:

- Utility Pole
Utility Pole with Base
Utility Located Object
Utility Traffic Signal Box
Utility Unknown U/G Line
U/G Tank; Water, Gas, Oil
Underground Storage Tank, Approx. Loc.
A/G Tank; Water, Gas, Oil
Geoenvironmental Boring
U/G Test Hole (S.U.E.*)
Abandoned According to Utility Records
End of Information

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
Gate Valve
Tapping Valve
Line Stop
Fire Hydrant
Relocate Fire Hydrant
Relocate Water Meter

PROPOSED SEWER SYMBOLS


- Force Main Sewer Line (Sized as Shown)

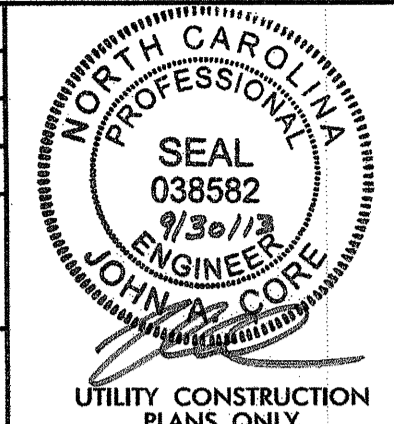
PROPOSED MISCELLANEOUS UTILITIES SYMBOLS

- Thrust Block
Air Release Valve
Plan Note
Pay Item Note

REVISIONS

Vertical text on the left margin containing project details and dates.

 <p>THE WOOTEN COMPANY ENGINEERING PLANNING ARCHITECTURE 120 North Boylan Avenue, Raleigh, NC 27603-1423 919.828.0531 Fax 919.834.3589 License Number: F-0115</p>	PROJECT REFERENCE NO. U-4432	SHEET NO. UC - 2
	DESIGNED BY: JAC DRAWN BY: TK CHECKED BY: JAC APPROVED BY: JAC REVISED:	



**NORTH CAROLINA
DEPARTMENT OF
TRANSPORTATION**

UTILITIES ENGINEERING SEC.
PHONE: (919) 250-4128
FAX: (919) 250-4119

UTILITY CONSTRUCTION

GENERAL NOTES

- EXISTING UTILITIES ARE LOCATED ON PLANS APPROXIMATELY. NOTIFY UTILITY LOCATING SERVICE TO MARK LOCATION OF EXISTING UTILITIES AT LEAST 48 HOURS PRIOR TO COMMENCING CONSTRUCTION ACTIVITY. CONTRACTOR RESPONSIBLE FOR VERIFYING EXACT LOCATION OF THESE EXISTING UTILITIES. THE COST TO REPAIR THESE FACILITIES, IF DAMAGED, SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR.
- ALL CONSTRUCTION AND TESTING SHALL BE PER CITY OF RALEIGH STANDARDS.
- FIRE HYDRANTS DESIGNATED TO BE RELOCATED THAT DO NOT HAVE NATIONAL STANDARD THREADS AND A STORZ CONNECTION PER CITY OF RALEIGH STANDARDS SHALL BE REPLACED.
- ALL PIPE INSTALLED IS PAID FOR BASED ON HORIZONTAL DISTANCE ONLY.
- EXISTING CONDITIONS SURVEY AND PROPOSED ROADWAY PLANS PROVIDED BY NCDOT, ISSUED AUGUST 28, 2013.
- PROPOSED POWER UTILITY PLAN PROVIDED BY PROGRESS ENERGY, ISSUED MARCH 1, 2013.

STANDARD UTILITY NOTES (as applicable):

- FOR ALL CITY OF RALEIGH UTILITIES, ALL MATERIALS & DESIGN & TESTING METHODS SHALL BE IN ACCORDANCE WITH CITY OF RALEIGH DESIGN STANDARDS, DETAILS & SPECIFICATIONS (REFERENCE: CORPUD HANDBOOK, CURRENT EDITION) AND/OR AS DIRECTED BY ENGINEER. PAYMENT SHALL BE MADE, MEASURED AND PAID FOR UNDER NCDOT STANDARD SPECIFICATIONS.
- UTILITY SEPARATION REQUIREMENTS:
 - 5.0' MINIMUM HORIZONTAL SEPARATION IS REQUIRED BETWEEN ALL SANITARY SEWER & STORM SEWER FACILITIES, UNLESS DIP MATERIAL IS SPECIFIED FOR SANITARY SEWER
 - MAINTAIN 18" MIN. VERTICAL SEPARATION AT ALL WATERMAIN & RCP STORM DRAIN CROSSINGS; MAINTAIN 24" MIN. VERTICAL SEPARATION AT ALL SANITARY SEWER & RCP STORM DRAIN CROSSINGS. WHERE ADEQUATE SEPARATIONS CANNOT BE ACHIEVED, SPECIFY DIP MATERIALS & A CONCRETE CRADLE HAVING 6" MIN. CLEARANCE (PER CORPUD DETAILS W-41 & S-49)
 - ALL OTHER UNDERGROUND UTILITIES SHALL CROSS WATER & SEWER FACILITIES WITH 18" MIN. VERTICAL SEPARATION REQUIRED
- ANY NECESSARY FIELD REVISIONS TO CITY OF RALEIGH UTILITIES ARE SUBJECT TO REVIEW & APPROVAL OF AN AMENDED PLAN &/OR PROFILE BY THE CITY OF RALEIGH PUBLIC UTILITIES DEPARTMENT PRIOR TO CONSTRUCTION

NOTES /FOR CONNECTION FOR STA. 26+45 +/-

CONTRACTOR SHALL PROVIDE A PLAN FOR THE DEPARTMENT'S APPROVAL FOR THE INSTALLATION OF THE 12" WATER LINE AND APPURTENANCES TO CROSS TRYON ROAD AS SHOWN ON SHEET UC-4. PLAN TO INCLUDE BUT NOT LIMITED TO THE FOLLOWING:

PHASE I

- PROVIDE ROAD CLOSURE AND COMPLETE THE FOLLOWING:
 - INSTALLATION OF 12" TAPPING VALVE AND REACTION BACKING
 - INSTALLATION OF 12" LINE STOP
 - INSTALLATION OF THRUST COLLAR
 - INSTALLATION OF 12" WATER LINE AND VALVE ACROSS TRYON ROAD WATERLINE FROM TAPPING VALVE TO VALVE (APPROXIMATELY 50'). PLUG LINE TEMPORARILY. THIS SEGEMENT OF LINE SHALL BE TESTED AND ACCEPTED BY THE CITY OF RALEIGH.
 - CONCRETE FOR THRUST COLLAR AND REACTION BACKING AT TAPPING VALVE SHALL OBTAIN 3,000 PSI STRENGTH BEFORE BACKFILLING SHALL BE ALLOWED.
 - CONCRETE SHALL BE TESTED BY NCDOT STANDARD SPECIFICATIONS OR BY ALTERNATE METHODS AS APPROVED BY THE ENGINEER.
 - INSTALL ALL NECESSARY BACKFILL AND PAVEMENT REPAIR TO OPEN TRYON ROAD FOR TRAFFIC.

SEE TRAFFIC CONTROL PLAN FOR CLOSURE REQUIREMENTS FOR PHASE I

PHASE II

- ALL REMAINING NEW 12" WATER LINE AND APPURTENANCES SHALL BE INSTALLED. THE WATERLINE, INCLUDING THE SEGMENT INSTALLED IN PHASE I, SHALL BE PRESSURE TESTED, STERILIZED, AND ACCEPTED BY THE CITY OF RALEIGH.
- DURING ROAD CLOSURE:
 - CONTRACTOR SHALL PLUG THE ENDS OF THE EXISTING 12" WATER LINE WHERE INDICATED ON SHEET UC-4.
 - FILL OR REMOVE EXISTING PIPE AS NECESSARY AT BRIDGE
 - INSTALL NECESSARY BACKFILL AND PAVEMENT REPAIR TO OPEN TRYON ROAD FOR TRAFFIC.

SEE TRAFFIC CONTROL PLAN FOR CLOSURE REQUIREMENTS FOR PHASE II

**Public
Water Collection / Extension System**

The City of Raleigh consents to the connection and extension of the City's public water system as shown on this plan. The material and construction methods used for this project shall conform to the standards and specifications of the City's Public Utilities Handbook.

City of Raleigh
Public Utilities Department Permit # W-7159 REV

Authorization to Construct Mark Lane

Date 10-8-17

**Public
Sewer Collection / Extension System**

The City of Raleigh consents to the connection and extension of the City's public sewer system as shown on this plan. The material and construction methods used for this project shall conform to the standards and specifications of the City's Public Utilities Handbook.

City of Raleigh
Public Utilities Department Permit # S-3820 REV

Authorization to Construct Mark Lane

Date 10-8-17

ATTENTION CONTRACTORS

The Construction Contractor responsible for the extension of water and sewer, and/or reuse, as approved in these plans, is responsible for contacting the Public Works Department at (919) 996-6610 and the Public Utilities Department at (919) 996-4540 at least twenty-four hours prior to beginning any of their construction.

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ATTENTION CONTRACTORS

The Construction Contractor responsible for sewer pump stations and force mains, as approved in these plans, is responsible for contacting the Public Works Department at (919) 996-6610 and the Public Utilities Department at (919) 996-4540 at least twenty-four hours prior to beginning any of their construction.

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REVISIONS

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 tkeith

Beginning chain WATER LINE 1 description

Point WAT100	N	723,263.8083	E	2,099,970.3874	Sta	0+00.00
Course from WAT100 to WAT101 S 35° 40' 31.62" W Dist 48.5400						
Point WAT101	N	723,224.3777	E	2,099,942.0792	Sta	0+48.54
Course from WAT101 to WAT102 S 9° 40' 39.18" E Dist 7.4590						
Point WAT102	N	723,217.0247	E	2,099,943.3327	Sta	0+56.00
Course from WAT102 to WAT103 S 54° 16' 31.34" E Dist 29.6217						
Point WAT103	N	723,199.7289	E	2,099,967.3806	Sta	0+85.62
Course from WAT103 to WAT104 S 9° 23' 39.79" E Dist 53.7648						
Point WAT104	N	723,146.8852	E	2,099,976.1566	Sta	1+39.39
Course from WAT104 to WAT105 S 22° 40' 12.52" E Dist 40.3551						
Point WAT105	N	723,109.4480	E	2,099,991.7104	Sta	1+79.74
Course from WAT105 to WAT106 S 18° 38' 31.70" W Dist 97.3526						
Point WAT106	N	723,017.2031	E	2,099,960.5911	Sta	2+77.09
Course from WAT106 to WAT107 S 27° 38' 35.94" E Dist 38.2309						
Point WAT107	N	722,983.3362	E	2,099,978.3289	Sta	3+15.32
Course from WAT107 to WAT108 S 72° 32' 35.76" E Dist 3.5450						
Point WAT108	N	722,982.2727	E	2,099,981.7106	Sta	3+18.87
Course from WAT108 to WAT109 S 85° 33' 13.57" E Dist 28.0531						
Point WAT109	N	722,980.0980	E	2,100,009.6792	Sta	3+46.92

Beginning chain WATER LINE 2 description

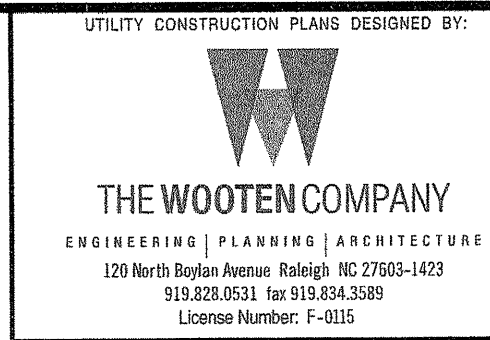
Point WAT200	N	721,623.4160	E	2,101,766.1878	Sta	0+00.00
Course from WAT200 to WAT201 S 53° 39' 53.31" E Dist 16.0344						
Point WAT201	N	721,613.9155	E	2,101,779.1045	Sta	0+16.03
Course from WAT201 to WAT202 N 80° 04' 35.02" E Dist 26.8434						
Point WAT202	N	721,618.5416	E	2,101,805.5462	Sta	0+42.88
Course from WAT202 to WAT203 S 57° 22' 02.66" E Dist 54.6666						
Point WAT203	N	721,589.0626	E	2,101,851.5835	Sta	0+97.54
Course from WAT203 to WAT204 S 59° 18' 30.69" E Dist 49.8110						
Point WAT204	N	721,563.6383	E	2,101,894.4174	Sta	1+47.36
Course from WAT204 to WAT205 S 61° 09' 40.18" E Dist 49.9045						
Point WAT205	N	721,539.5670	E	2,101,938.1328	Sta	1+97.26
Course from WAT205 to WAT206 S 62° 52' 41.20" E Dist 42.5083						
Point WAT206	N	721,520.1881	E	2,101,975.9668	Sta	2+39.77
Course from WAT206 to WAT207 S 64° 30' 36.85" E Dist 45.3395						
Point WAT207	N	721,500.6762	E	2,102,016.8931	Sta	2+85.11
Course from WAT207 to WAT208 S 64° 02' 15.03" E Dist 96.0542						
Point WAT208	N	721,458.6253	E	2,102,103.2536	Sta	3+81.16
Course from WAT208 to WAT209 S 65° 11' 49.24" E Dist 21.7274						
Point WAT209	N	721,449.5107	E	2,102,122.9768	Sta	4+02.89
Course from WAT209 to WAT210 S 67° 46' 20.81" E Dist 23.2452						
Point WAT210	N	721,440.7174	E	2,102,144.4946	Sta	4+26.13
Course from WAT210 to WAT211 S 70° 43' 53.47" E Dist 31.8293						
Point WAT211	N	721,430.2138	E	2,102,174.5409	Sta	4+57.96
Course from WAT211 to WAT212 S 27° 07' 18.15" E Dist 14.2644						
Point WAT212	N	721,417.5180	E	2,102,181.0438	Sta	4+72.23
Course from WAT212 to WAT213 S 72° 39' 52.99" E Dist 29.5689						
Point WAT213	N	721,408.7076	E	2,102,209.2696	Sta	5+01.80
Course from WAT213 to WAT214 S 74° 04' 47.48" E Dist 47.4891						
Point WAT214	N	721,395.6814	E	2,102,254.9372	Sta	5+49.29
Course from WAT214 to WAT215 S 75° 51' 36.47" E Dist 49.4506						
Point WAT215	N	721,383.6012	E	2,102,302.8896	Sta	5+98.74
Course from WAT215 to WAT216 S 77° 01' 20.90" E Dist 13.8418						
Point WAT216	N	721,380.4927	E	2,102,316.3778	Sta	6+12.58
Course from WAT216 to WAT217 S 32° 16' 02.74" E Dist 3.4162						
Point WAT217	N	721,377.6041	E	2,102,318.2016	Sta	6+15.99
Course from WAT217 to WAT218 S 77° 42' 33.30" E Dist 6.2158						
Point WAT218	N	721,376.2809	E	2,102,324.2750	Sta	6+22.21
Course from WAT218 to WAT219 S 57° 17' 26.69" E Dist 3.3798						
Point WAT219	N	721,378.1073	E	2,102,327.1188	Sta	6+25.59
Course from WAT219 to WAT220 S 78° 06' 23.78" E Dist 23.1881						
Point WAT220	N	721,373.3284	E	2,102,349.8091	Sta	6+48.78
Course from WAT220 to WAT221 S 79° 27' 12.48" E Dist 50.1520						
Point WAT221	N	721,364.1489	E	2,102,399.1139	Sta	6+98.93
Course from WAT221 to WAT222 S 81° 17' 55.41" E Dist 50.3258						
Point WAT222	N	721,356.5355	E	2,102,448.8604	Sta	7+49.26
Course from WAT222 to WAT223 S 83° 08' 06.63" E Dist 49.6726						
Point WAT223	N	721,350.5983	E	2,102,498.1769	Sta	7+98.93
Course from WAT223 to WAT224 S 84° 25' 54.44" E Dist 20.9312						
Point WAT224	N	721,348.5673	E	2,102,519.0094	Sta	8+19.86
Course from WAT224 to WAT225 S 84° 48' 58.22" E Dist 83.3410						
Point WAT225	N	721,341.0373	E	2,102,602.0095	Sta	9+03.20
Course from WAT225 to WAT226 S 86° 34' 03.06" E Dist 15.2810						
Point WAT226	N	721,340.1224	E	2,102,617.2631	Sta	9+18.48
Course from WAT226 to WAT227 N 89° 24' 22.9109" E Dist 19.8460						
Point WAT227	N	721,340.33	E	2,102,637.11	Sta	9+38.33
Course from WAT227 to WAT228 S 54° 12' 28.8080" E Dist 45.8688						
Point WAT228	N	721,313.50	E	2,102,674.31	Sta	9+84.20

Beginning chain WATER LINE 3 description

Point WAT300	N	721,291.4496	E	2,102,219.0216	Sta	0+00.00
Course from WAT300 to WAT301 N 15° 30' 01.99" E Dist 110.0004						
Point WAT301	N	721,397.4490	E	2,102,248.4189	Sta	1+10.00

Beginning chain FORCE MAIN SEWER 1 description

Point FM100	N	721,467.4695	E	2,102,722.7508	Sta	0+00.00
Course from FM100 to FM101 S 47° 08' 52.45" W Dist 6.0902						
Point FM101	N	721,463.3275	E	2,102,718.2860	Sta	0+06.09
Course from FM101 to FM102 S 1° 54' 43.12" W Dist 16.4307						
Point FM102	N	721,446.9059	E	2,102,717.7378	Sta	0+22.52
Course from FM102 to FM103 S 22° 40' 48.52" W Dist 24.3495						
Point FM103	N	721,424.4393	E	2,102,708.3490	Sta	0+46.87
Course from FM103 to FM104 S 0° 42' 04.91" W Dist 52.4725						
Point FM104	N	721,371.9708	E	2,102,707.7067	Sta	0+99.34
Course from FM104 to FM105 S 29° 45' 57.22" W Dist 19.8625						
Point FM105	N	721,354.7289	E	2,102,697.8458	Sta	1+19.21
Course from FM105 to FM106 S 8° 15' 57.22" W Dist 4.0553						
Point FM106	N	721,350.7157	E	2,102,697.2628	Sta	1+23.26
Course from FM106 to FM107 S 36° 39' 57.41" E Dist 19.9019						
Point FM107	N	721,334.7518	E	2,102,709.1472	Sta	1+43.16



PROJECT REFERENCE NO.	SHEET NO.
U-4432	UC - 2A
DESIGNED BY: JAC	
DRAWN BY: TK	
CHECKED BY: JAC	
APPROVED BY: JAC	
REVISED:	
NORTH CAROLINA DEPARTMENT OF TRANSPORTATION	
UTILITIES ENGINEERING SEC. PHONE: (919) 250-4128 FAX: (919) 250-4119	
UTILITY CONSTRUCTION PLANS ONLY	

UTILITY CONSTRUCTION

Public Water Collection / Extension System

The City of Raleigh consents to the connection and extension of the City's public water system as shown on this plan. The material and construction methods used for this project shall conform to the standards and specifications of the City's Public Utilities Handbook.

City of Raleigh
Public Utilities Department Permit # W-7159 RW

Authorization to Construct Med. Shaw

Date 10-8-17

Public Sewer Collection / Extension System

The City of Raleigh consents to the connection and extension of the City's public sewer system as shown on this plan. The material and construction methods used for this project shall conform to the standards and specifications of the City's Public Utilities Handbook.

City of Raleigh
Public Utilities Department Permit # S-3870 RW

Authorization to Construct Med. Shaw

Date 10-8-17

ATTENTION CONTRACTORS

The Construction Contractor responsible for the extension of water and sewer, and/or reuse, as approved in these plans, is responsible for contacting the Public Works Department at (919) 998-6916 and the Public Utilities Department at (919) 998-4540 at least twenty-four hours prior to beginning any of their construction.

Failure to notify both City Departments in advance of beginning construction, will result in the issuance of monetary fines, and require reinstallation of any water or sewer facilities not inspected as a result of this notification failure.

Failure to call for inspection, install a Downstream Plug, have Permitted Plans on the Jobsite, or any other Violation of City of Raleigh Standards will result in a Fine and Possible Exclusion from future work in the City of Raleigh.

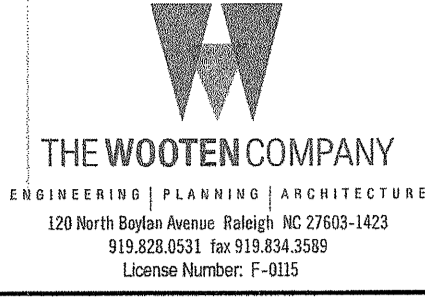
ATTENTION CONTRACTORS

The Construction Contractor responsible for sewer pump stations and force mains, as approved in these plans, is responsible for contacting the Public Works Department at (919) 998-6916 and the Public Utilities Department at (919) 998-4540 at least twenty-four hours prior to beginning any of their construction.

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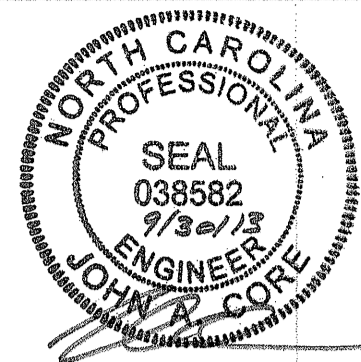
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UTILITY CONSTRUCTION PLANS DESIGNED BY:



THE WOOTEN COMPANY
ENGINEERING | PLANNING | ARCHITECTURE
120 North Duffin Avenue, Raleigh, NC 27603-1423
919.828.0531 Fax 919.834.5589
License Number: F-0115

PROJECT REFERENCE NO.	U-4432	SHEET NO.	UC - 3
DESIGNED BY:	JAC		
DRAWN BY:	TK		
CHECKED BY:	JAC		
APPROVED BY:	JAC		
REVISED:			



NORTH CAROLINA DEPARTMENT OF TRANSPORTATION
UTILITIES ENGINEERING SEC.
PHONE: (919) 250-4128
FAX: (919) 250-4119

UTILITY CONSTRUCTION PLANS ONLY

UTILITY CONSTRUCTION

Public Water Collection / Extension System

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City of Raleigh
Public Utilities Department Permit # W-3159 RW

Authorization to Construct Mark Baum

Date 10-8-13

Public Sewer Collection / Extension System

The City of Raleigh consents to the connection and extension of the City's public sewer system as shown on this plan. The material and construction methods used for this project shall conform to the standards and specifications of the City's Public Utilities Handbook.

City of Raleigh
Public Utilities Department Permit # S-3870 RW

Authorization to Construct Mark Baum

Date 10-8-13

ATTENTION CONTRACTORS

The Construction Contractor responsible for the extension of water and sewer, and/or reuse, as approved in these plans, is responsible for contacting the Public Works Department at (919) 995-8846 and the Public Utilities Department at (919) 995-4540 at least twenty-four hours prior to beginning any of their construction.

Failure to notify both City Departments in advance of beginning construction, will result in the issuance of monetary fines, and require reinstallation of any water or sewer facilities not inspected as a result of this notification failure.

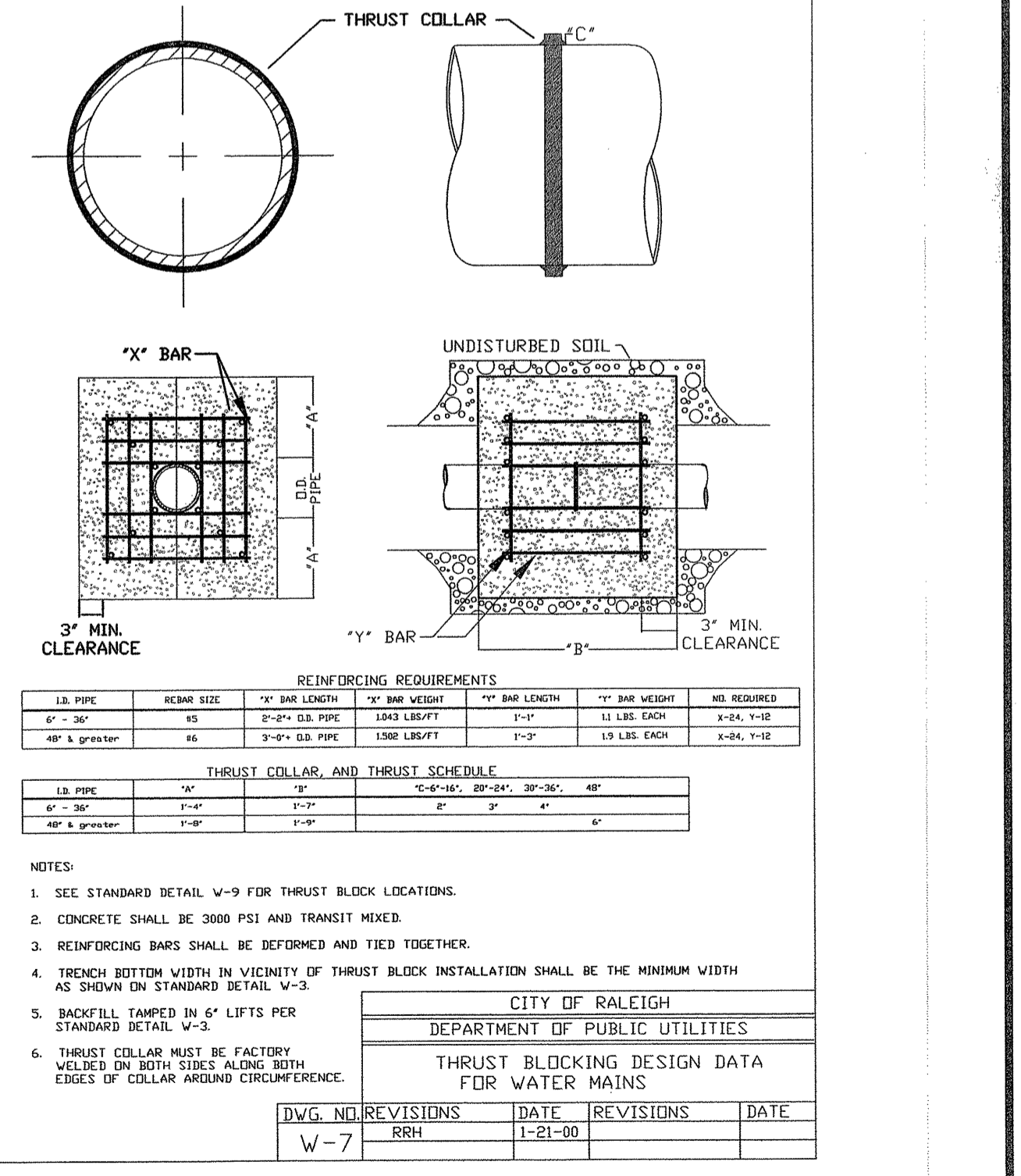
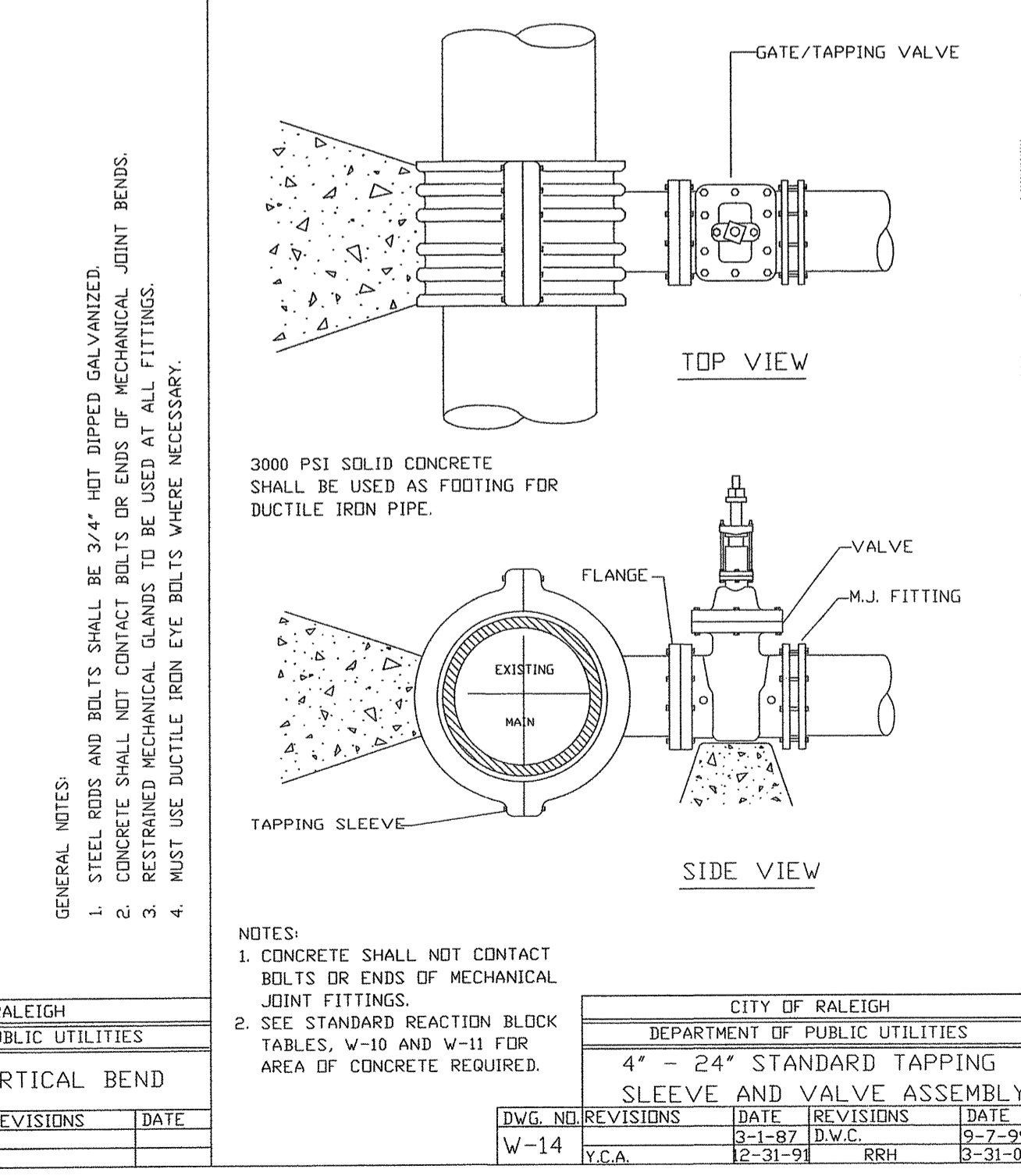
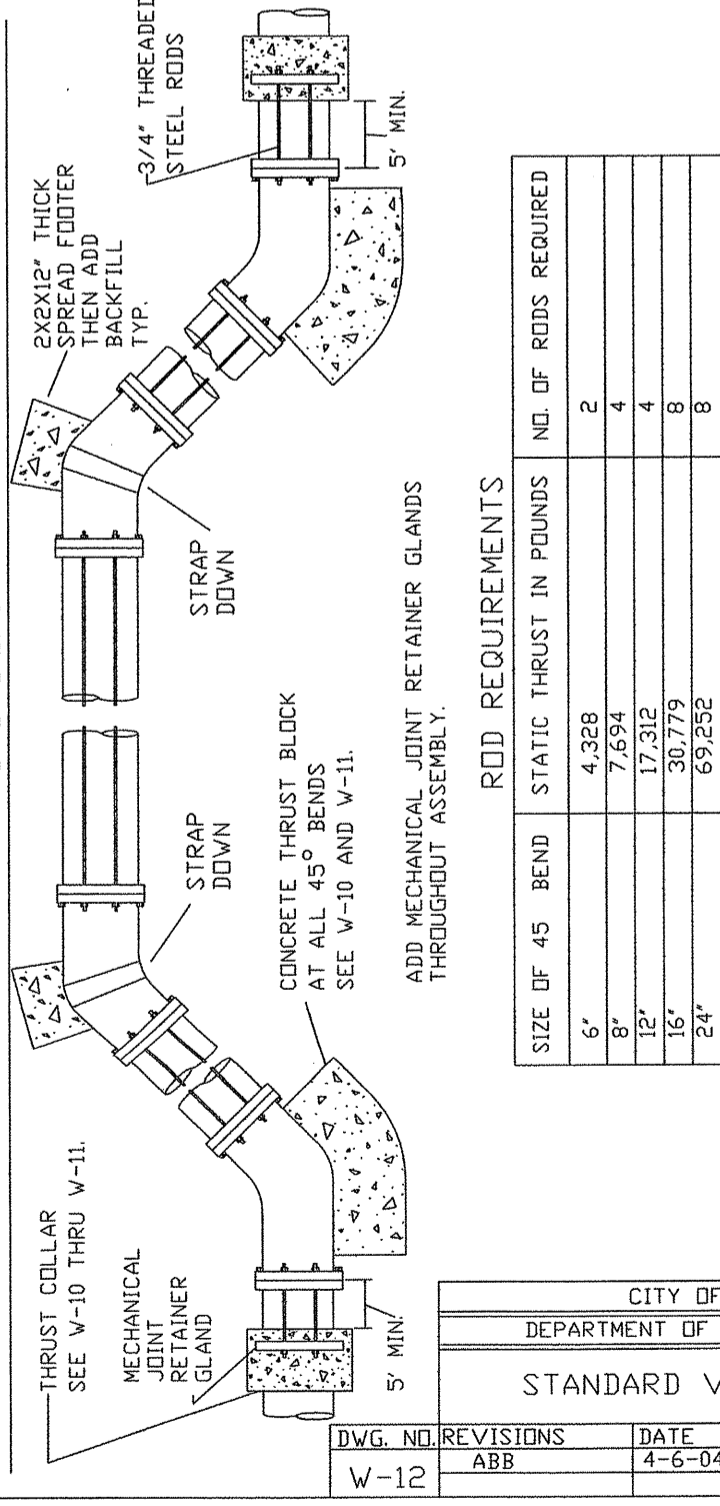
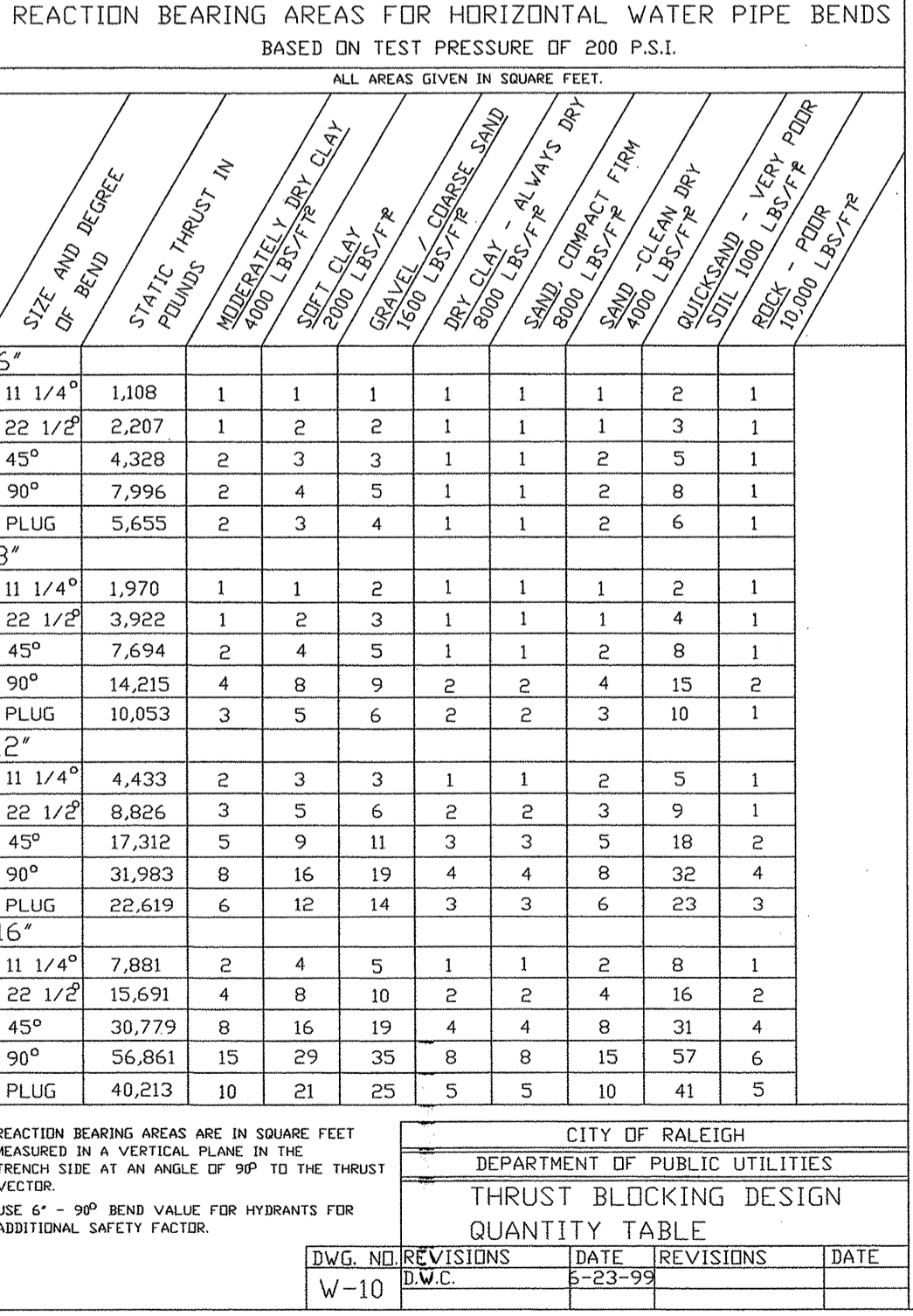
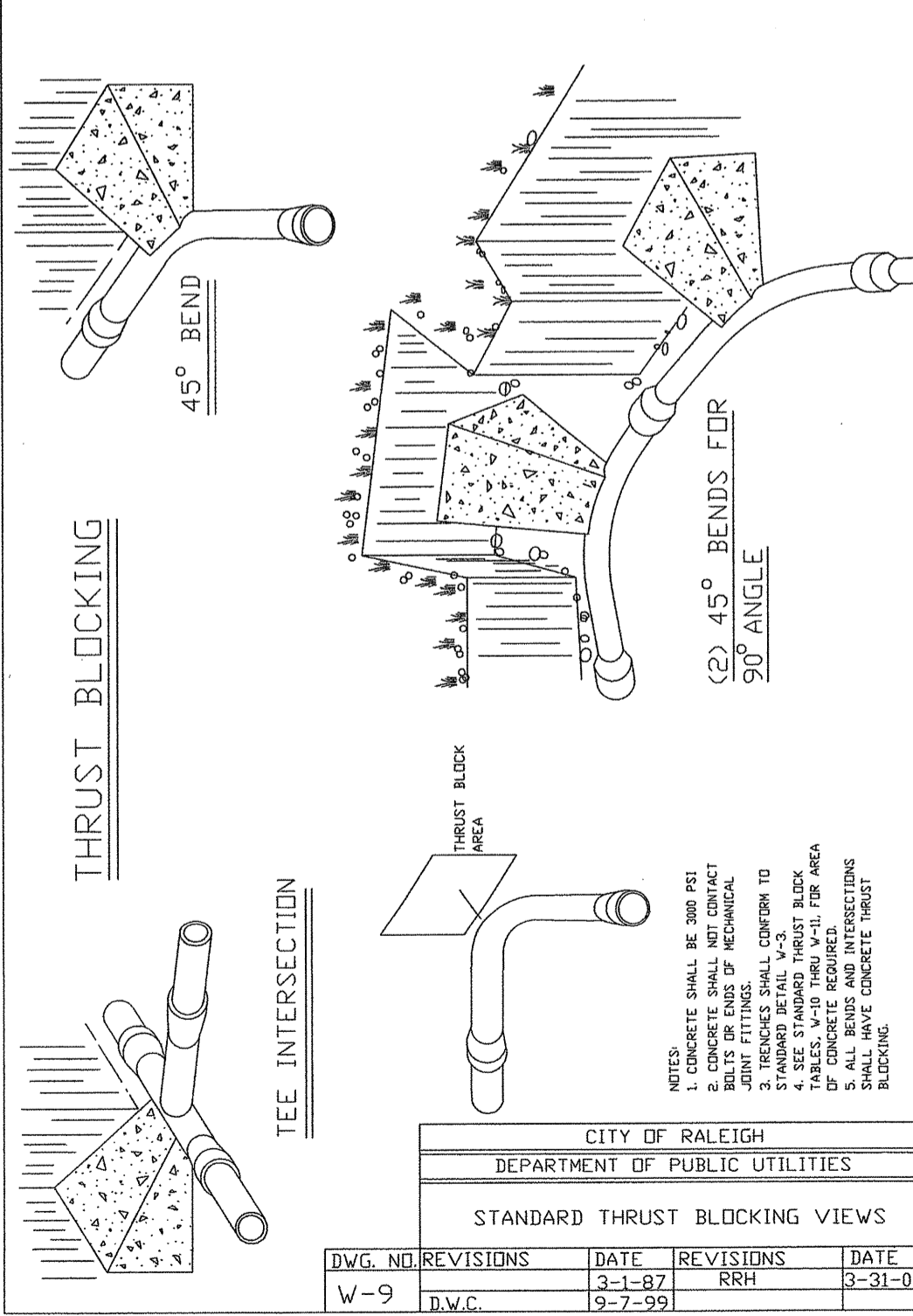
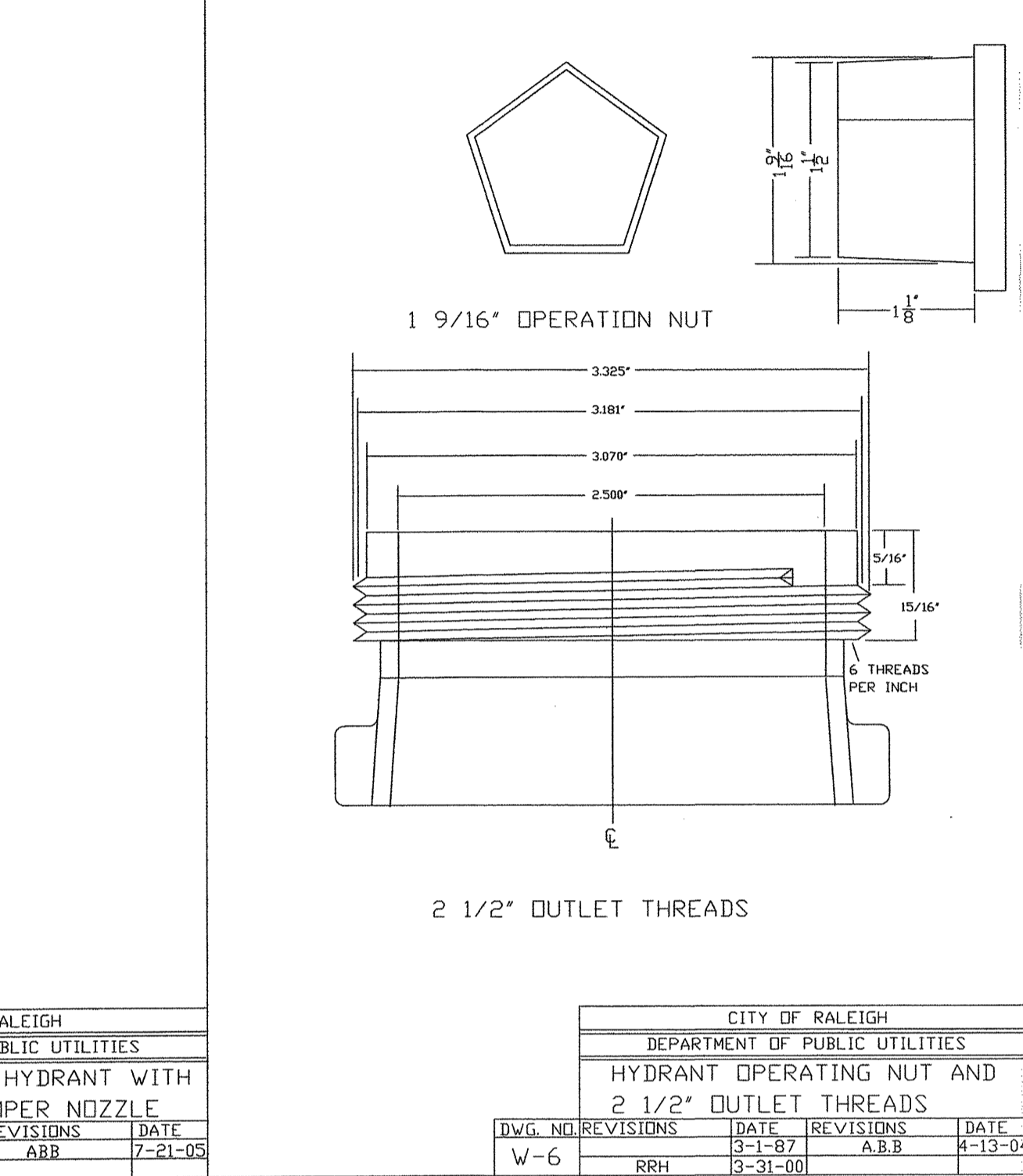
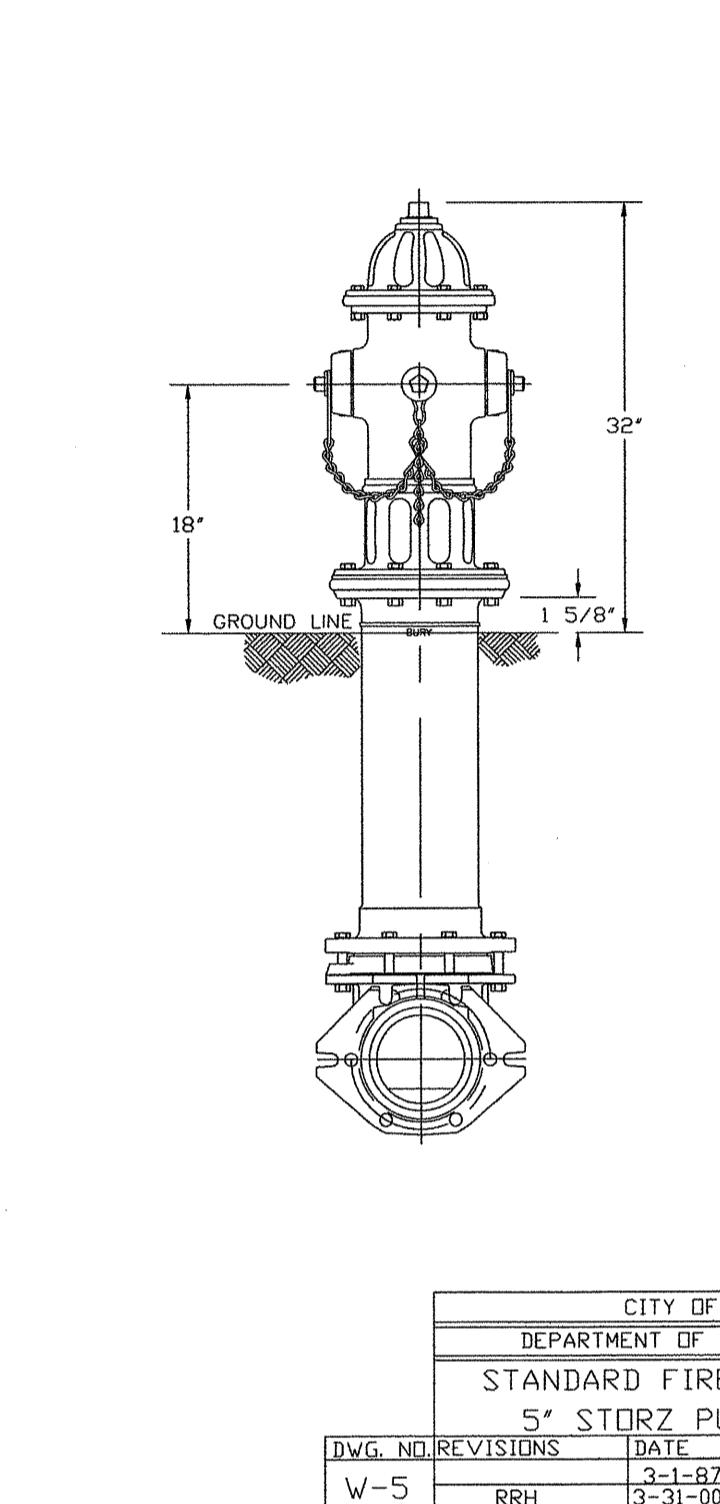
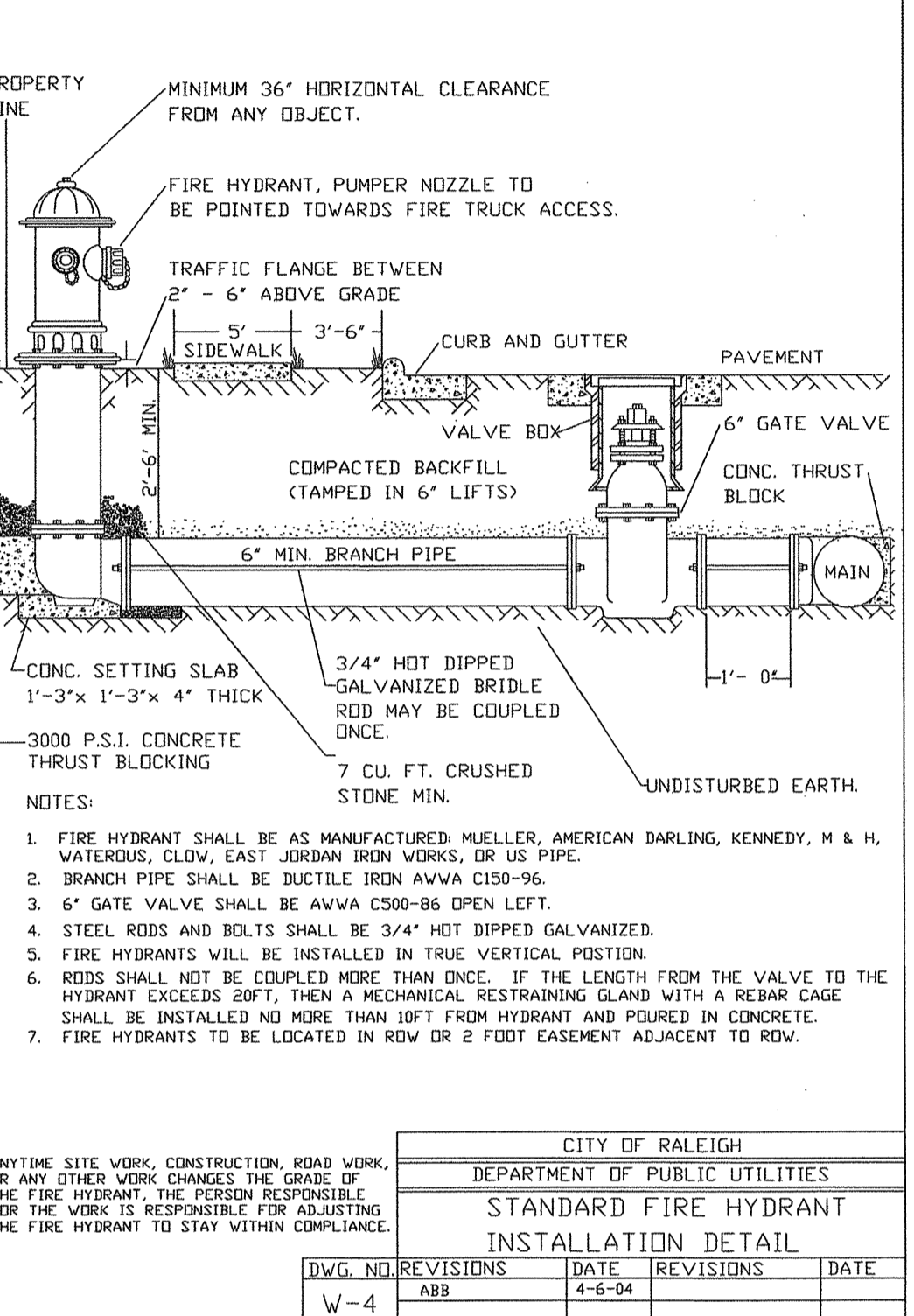
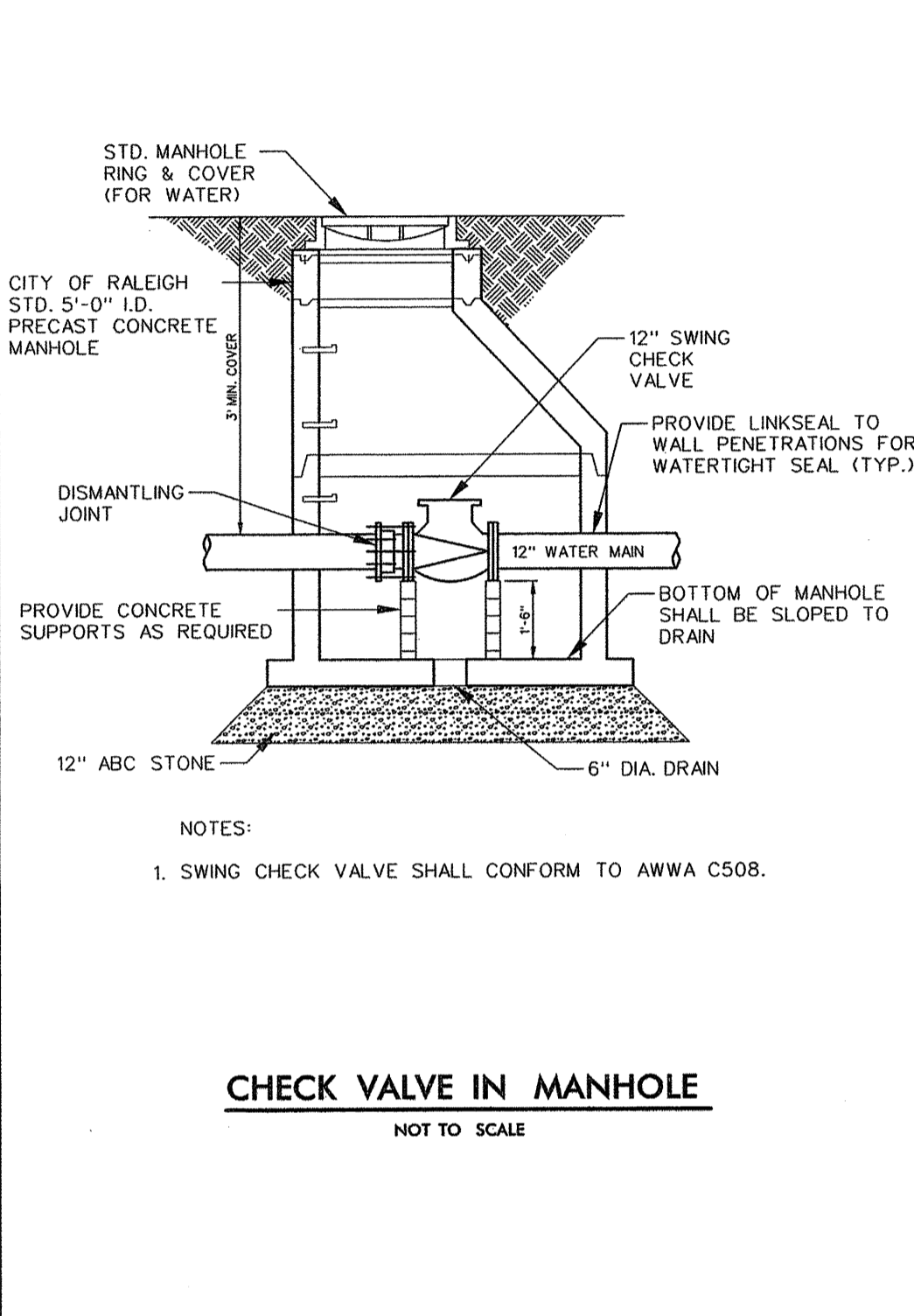
Failure to call for inspection, install a Downstream Plug, have Permitted Plans on the Jobsite, or any other Violation of City of Raleigh Standards will result in a Fine and Possible Exclusion from future work in the City of Raleigh.

ATTENTION CONTRACTORS

The Construction Contractor responsible for sewer pump stations and force mains, as approved in these plans, is responsible for contacting the Public Works Department at (919) 995-8846 and the Public Utilities Department at (919) 995-4540 at least twenty-four hours prior to beginning any of their construction.

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REVISIONS

8/17/99

UC-3 COR-Water

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UTILITY CONSTRUCTION

REVISIONS

Public
Water Collection / Extension System

The City of Raleigh consents to the connection and extension of the City's public water system as shown on this plan. The material and construction methods used for this project shall conform to the standards and specifications of the City's Public Utilities Handbook.

City of Raleigh
Public Utilities Department Permit # W-3159 RW

Authorization to Construct Mud Run

Date 10-2-17

Public
Sewer Collection / Extension System

The City of Raleigh consents to the connection and extension of the City's public sewer system as shown on this plan. The material and construction methods used for this project shall conform to the standards and specifications of the City's Public Utilities Handbook.

City of Raleigh
Public Utilities Department Permit # S-3870 RW

Authorization to Construct Mud Run

Date 10-2-17

ATTENTION CONTRACTORS

The Construction Contractor responsible for the extension of water and sewer, and/or reuse, as approved in these plans, is responsible for contacting the Public Utilities Department at (919) 834-0460 and the Public Utilities Department at (919) 996-4540 at least twenty-four hours prior to beginning any of their construction.

Failure to notify both City Departments in advance of beginning construction, will result in the issuance of monetary fines, and require reinstallation of any water or sewer facilities not inspected as a result of this notification failure.

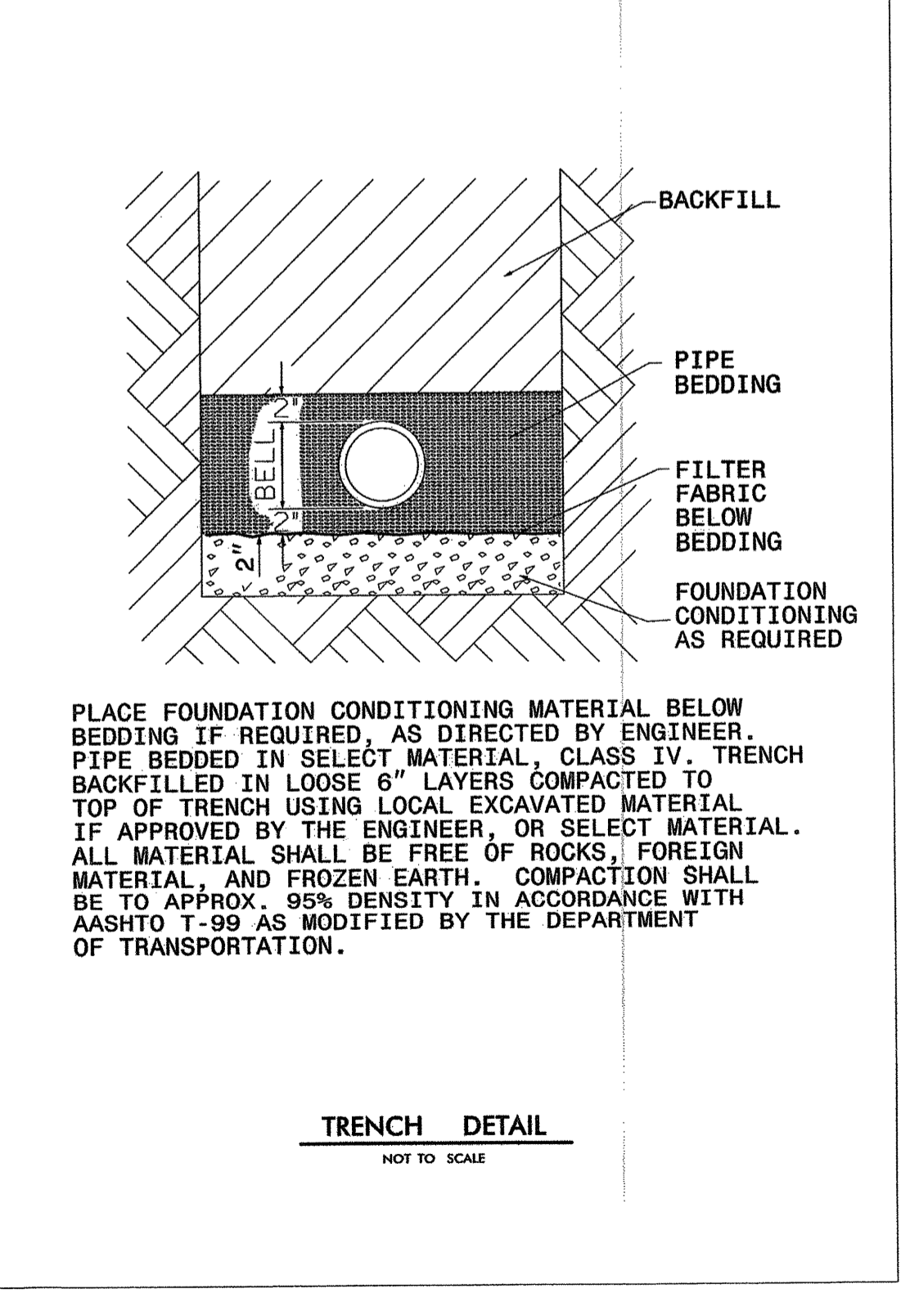
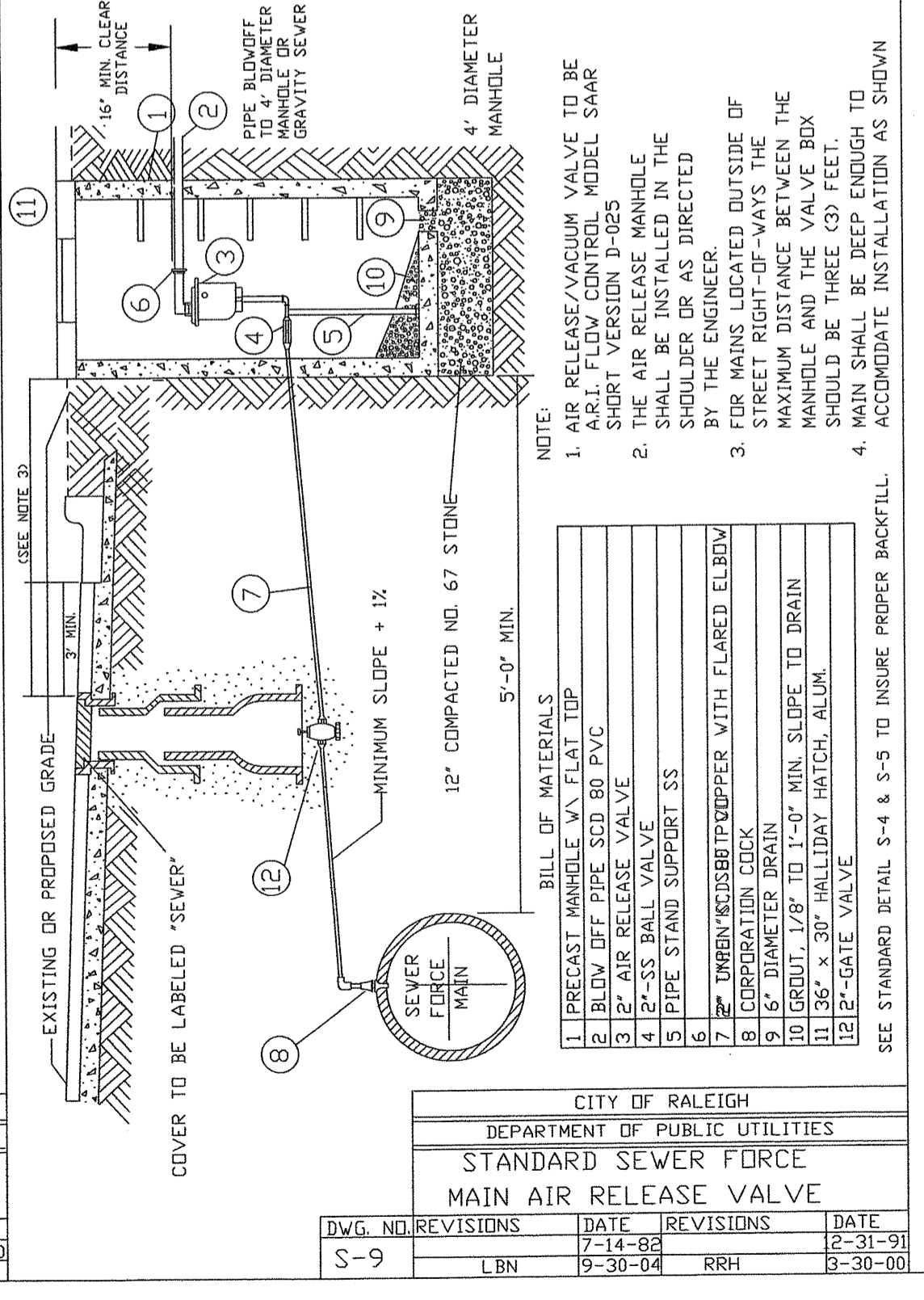
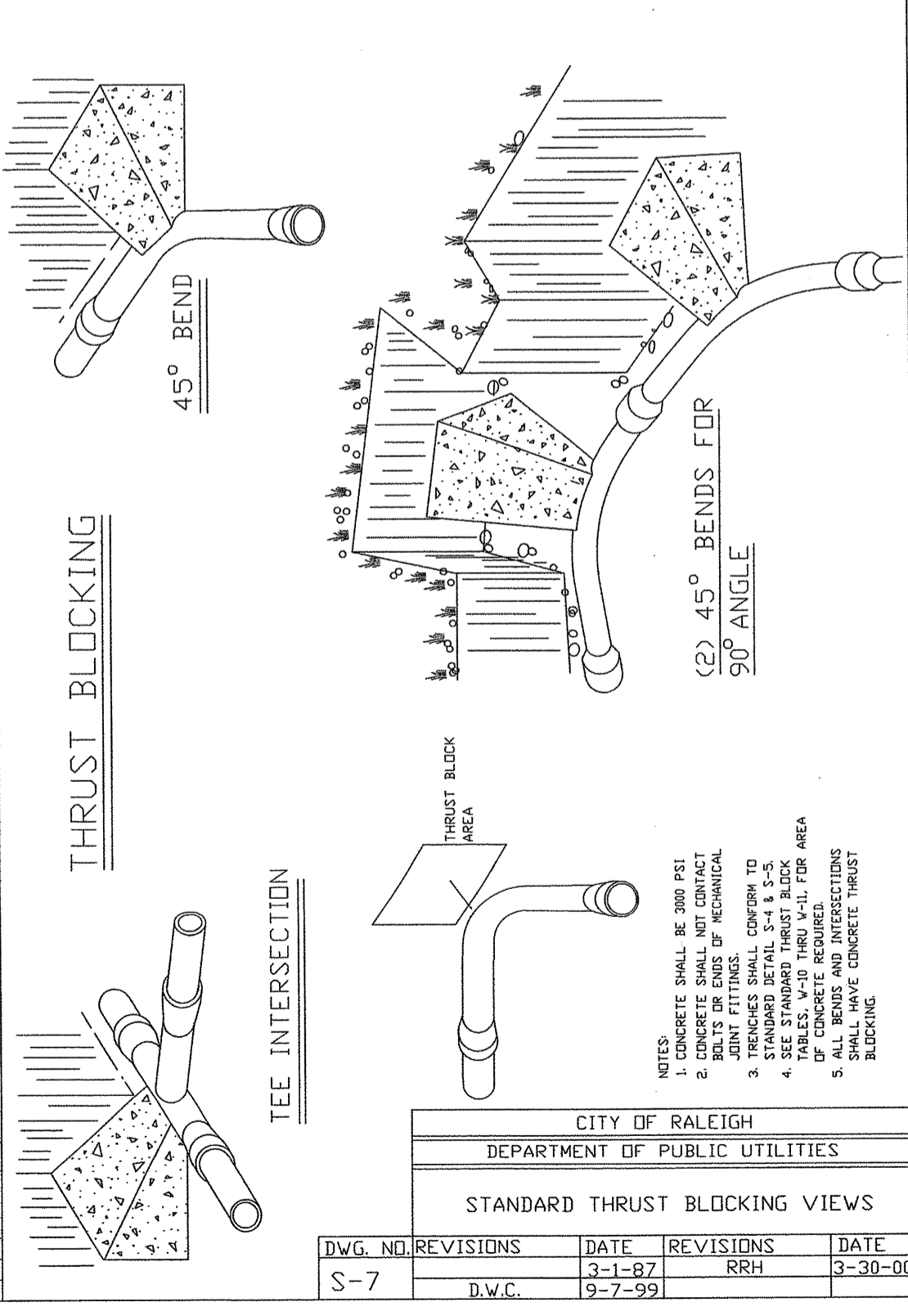
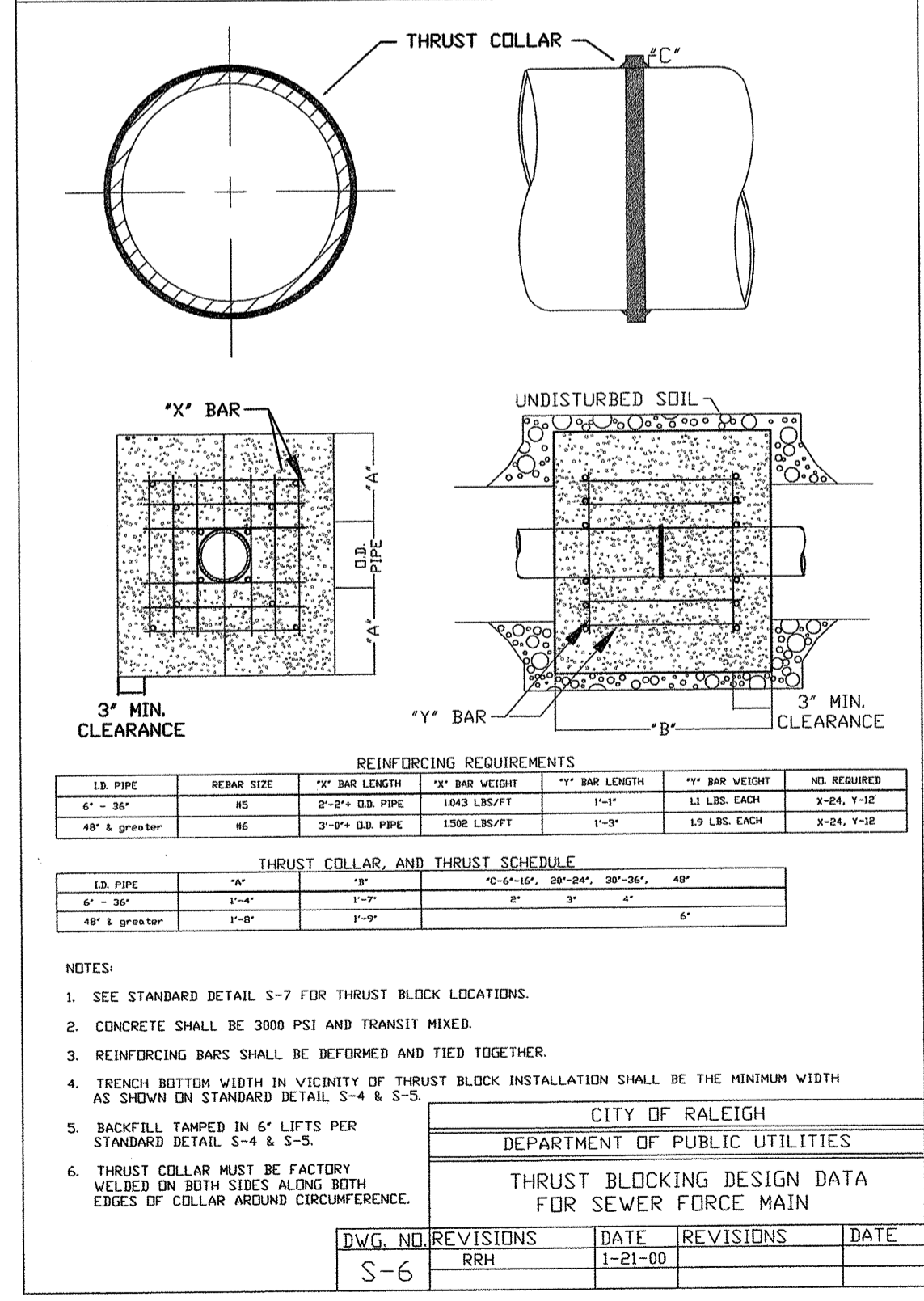
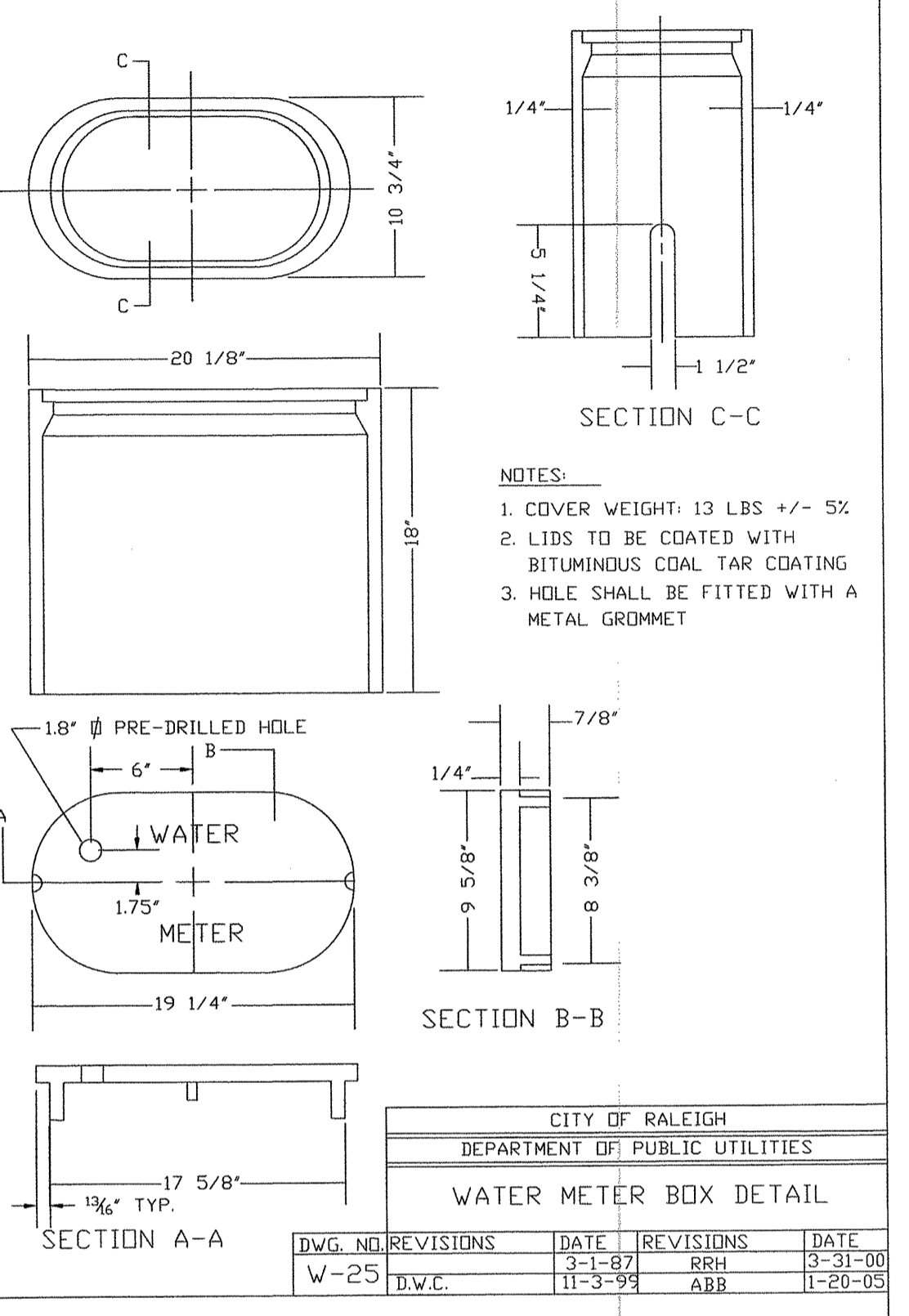
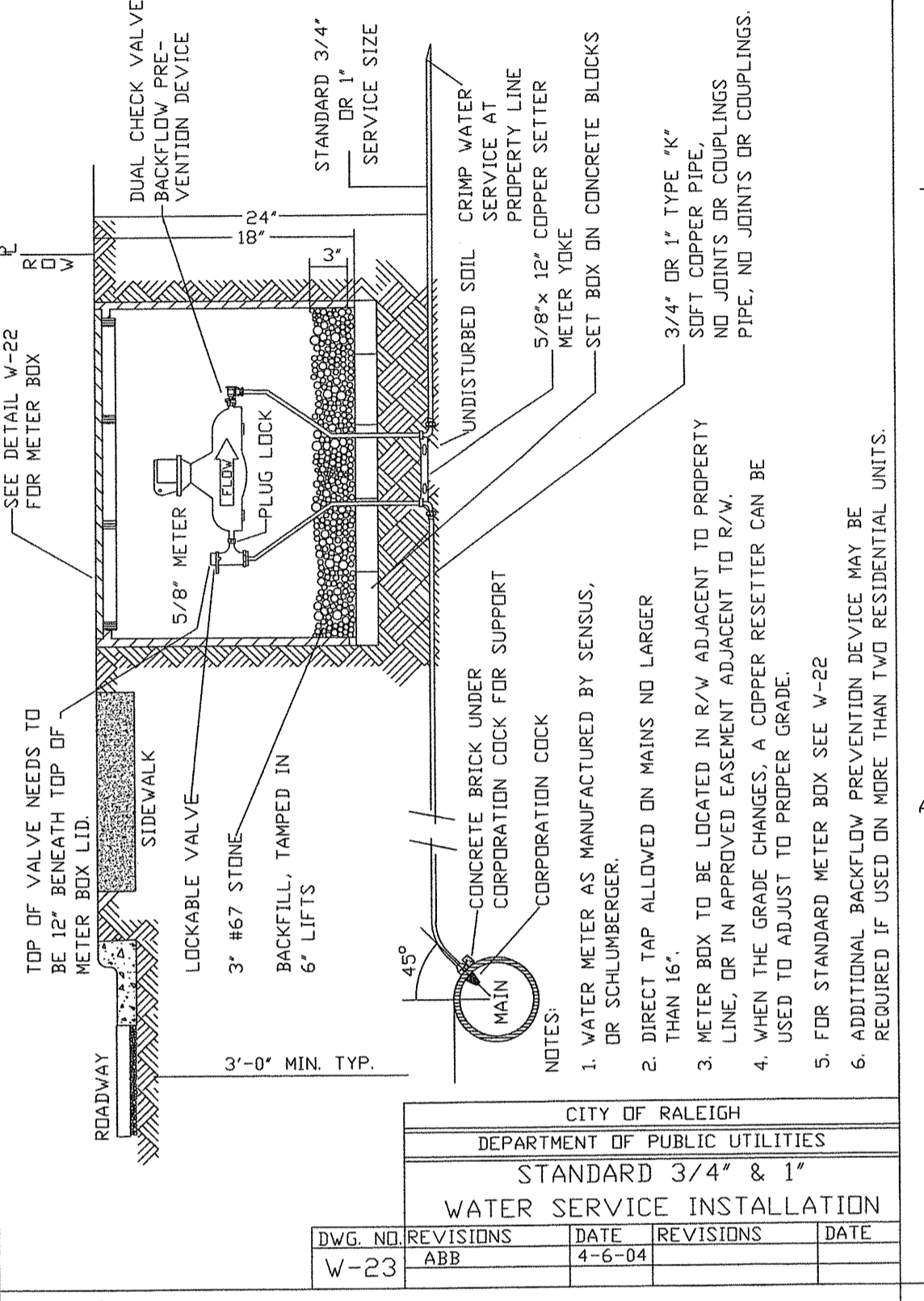
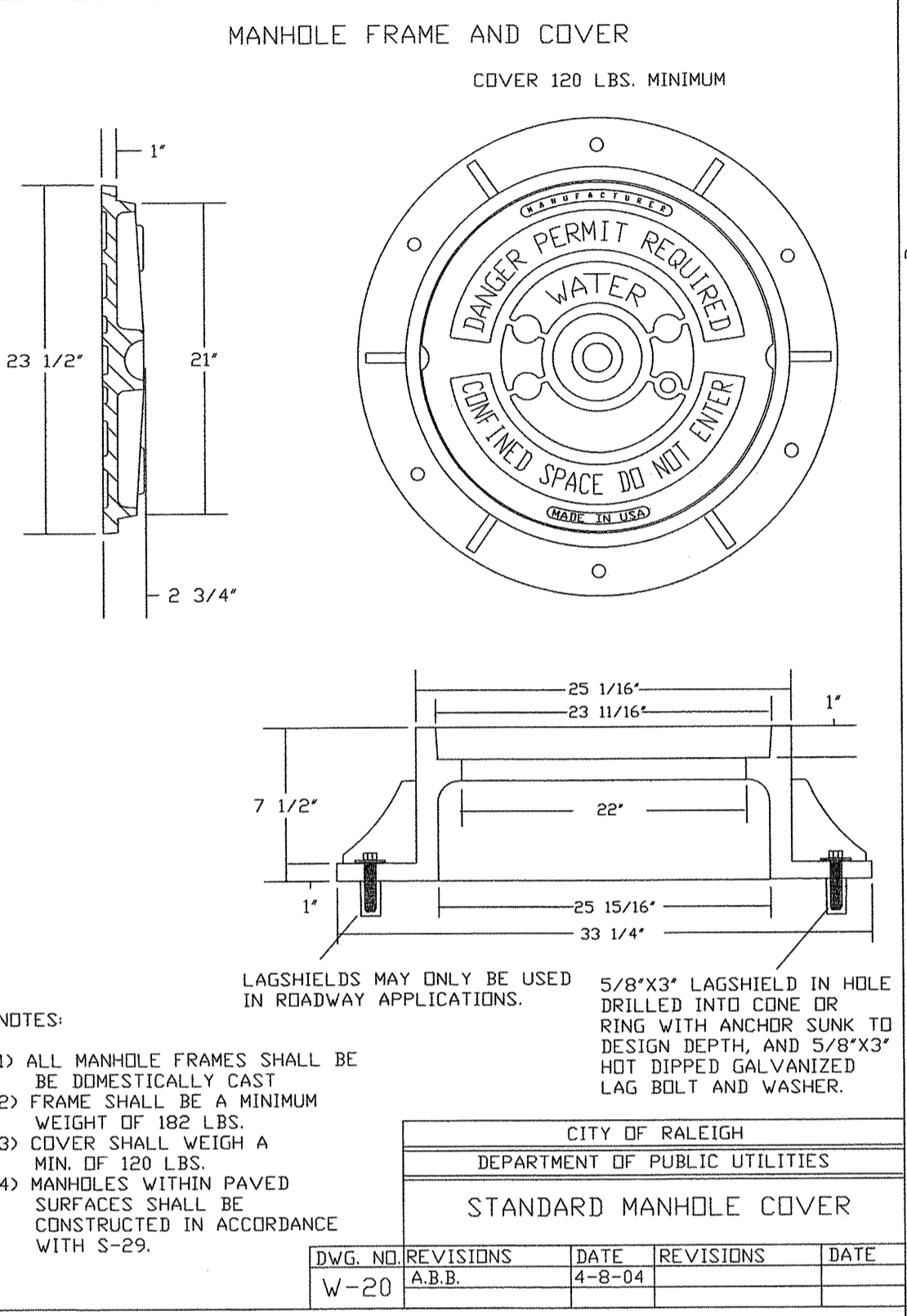
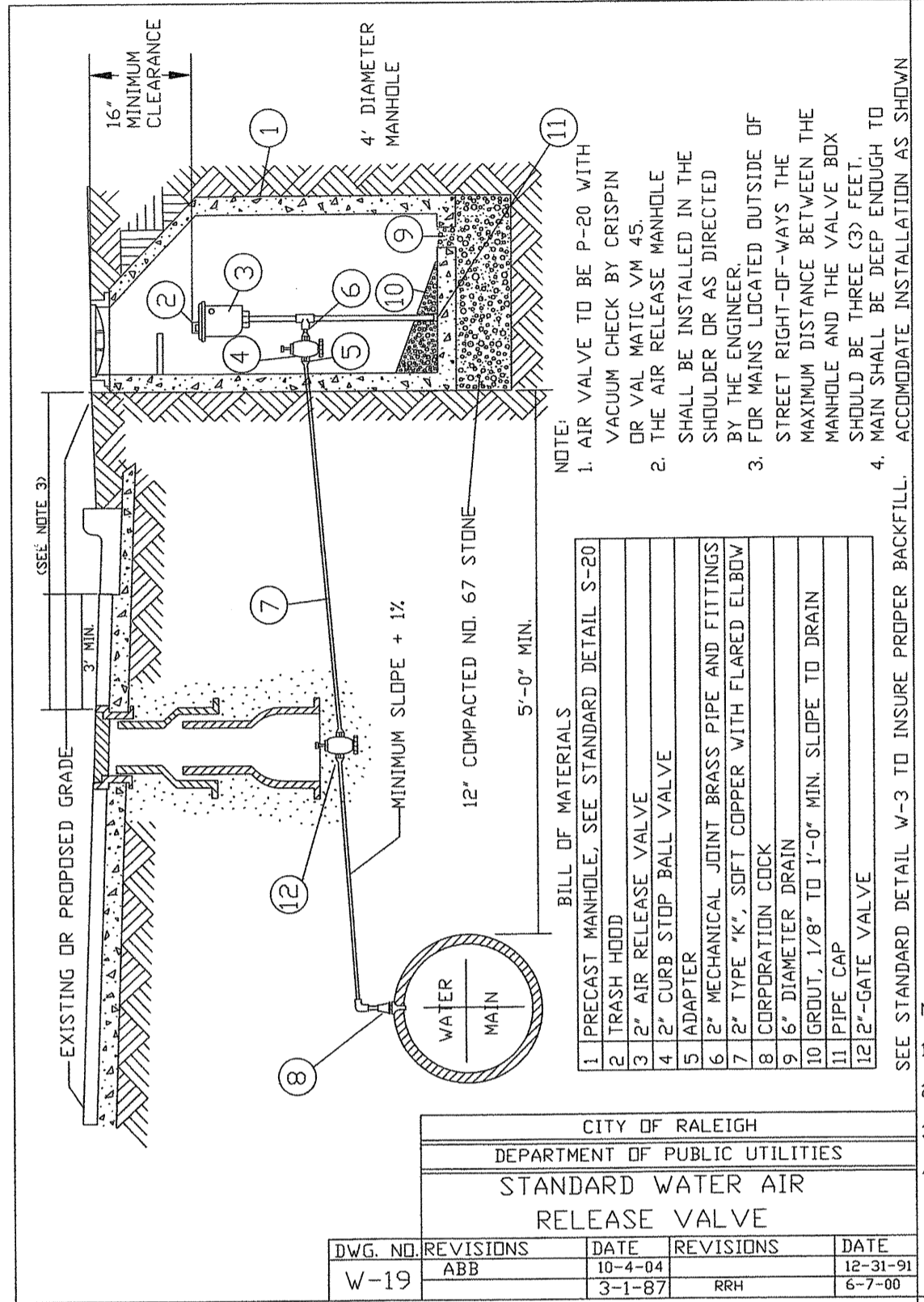
Failure to call for Inspection, Install a Downstream Plug, have Permitted Plans on the Jobsite, or any other Violation of City of Raleigh Standards will result in a Fine and Possible Exclusion from future work in the City of Raleigh.

ATTENTION CONTRACTORS

The Construction Contractor responsible for sewer pump stations and force mains, as approved in these plans, is responsible for contacting the Public Works Department at (919) 996-8940 and the Public Utilities Department at (919) 996-4540 at least twenty-four hours prior to beginning any of their construction.

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ATTENTION CONTRACTORS

The Construction Contractor responsible for the extension of water and sewer, and/or reuse, as approved in these plans, is responsible for contacting the Public Works Department at (919) 894-8816 and the Public Utilities Department at (919) 966-4540 at least twenty-four hours prior to beginning any of their construction.

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Public Water Collection / Extension System

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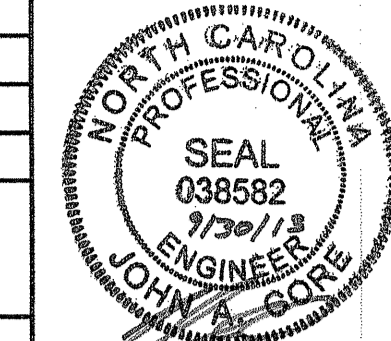
City of Raleigh
Public Utilities Department Permit # W-3159 RW
Authorization to Construct Mark Brown
Date 10-8-17

NOTE:
FOR LOCATION OF PROPOSED POWER POLES AND LINES, SEE UTILITIES BY OTHERS PLANS

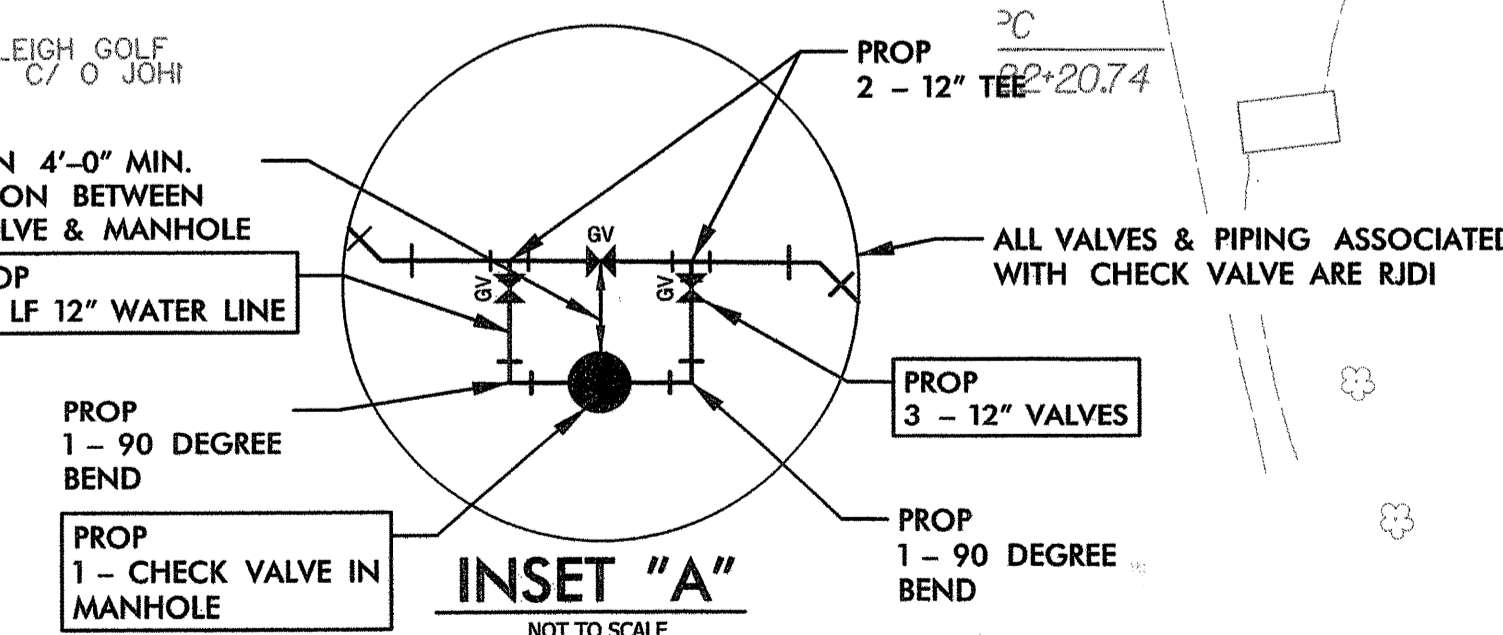
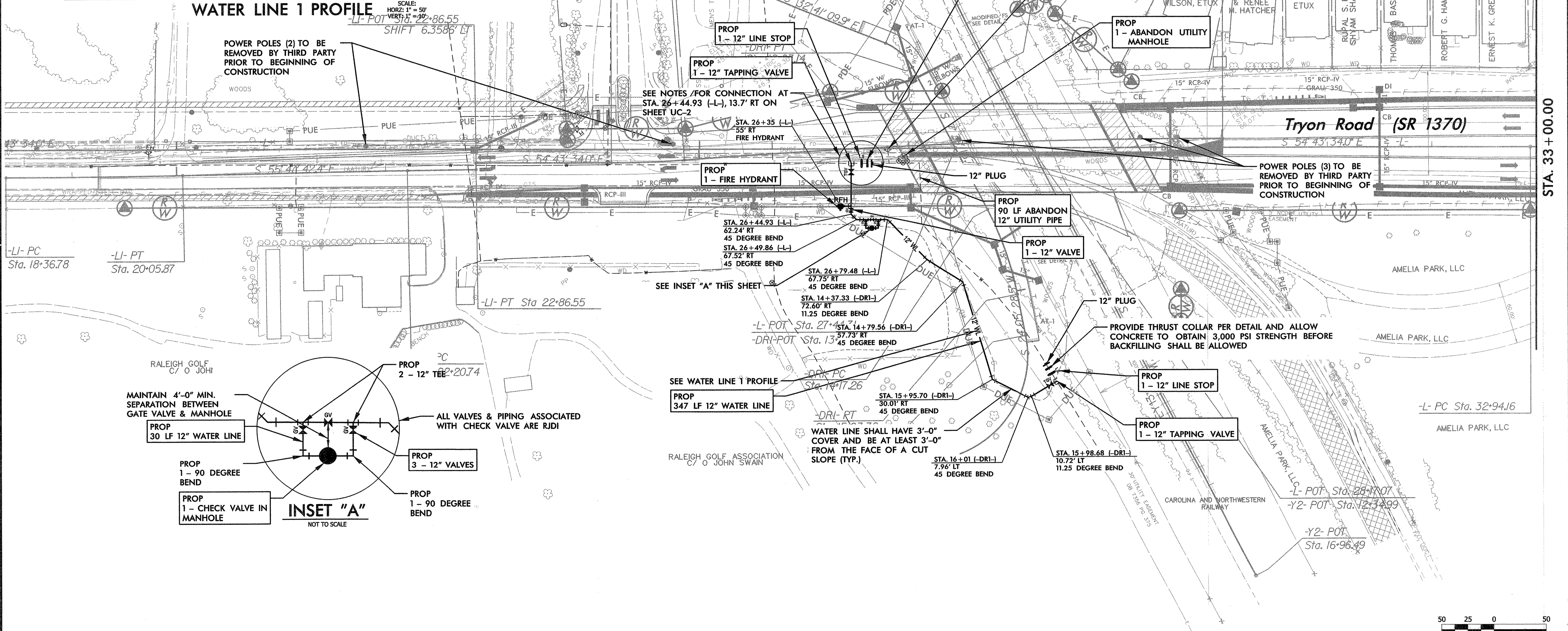
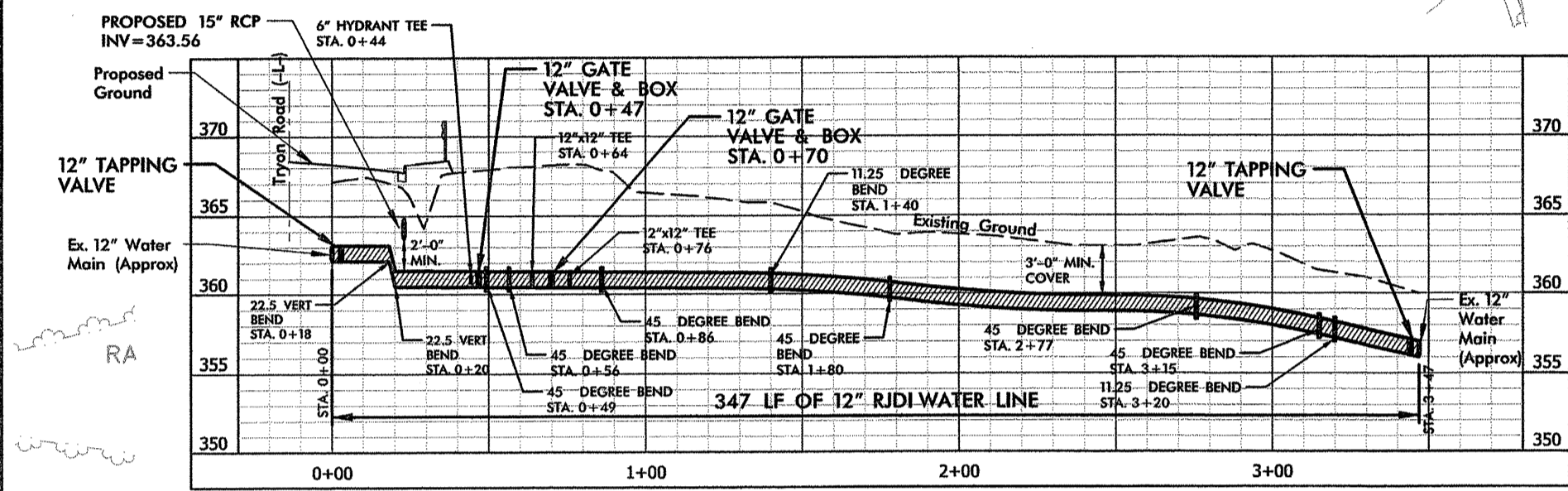
UTILITY CONSTRUCTION PLANS DESIGNED BY:



THE WOOTEN COMPANY
ENGINEERING | PLANNING | ARCHITECTURE
120 North Boylan Avenue, Raleigh, NC 27603-1423
919.828.0533 fax 919.834.3589
License Number: F-0115

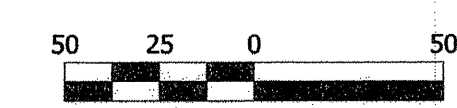
PROJECT REFERENCE NO.	SHEET NO.
U-4432	UC - 4
DESIGNED BY: JAC	
DRAWN BY: TK	
CHECKED BY: JAC	
APPROVED BY: JAC	
REVISIONS:	NORTH CAROLINA DEPARTMENT OF TRANSPORTATION UTILITIES ENGINEERING SEC. PHONE: (919) 250-4128 FAX: (919) 250-4119 UTILITY CONSTRUCTION PLANS ONLY

UTILITY CONSTRUCTION



REVISIONS


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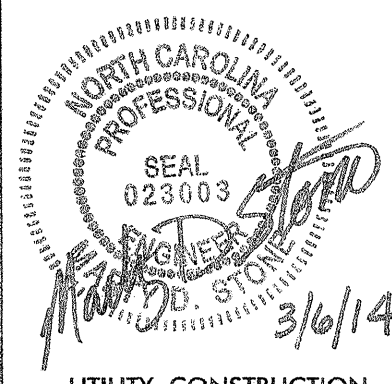
GENERAL NOTES

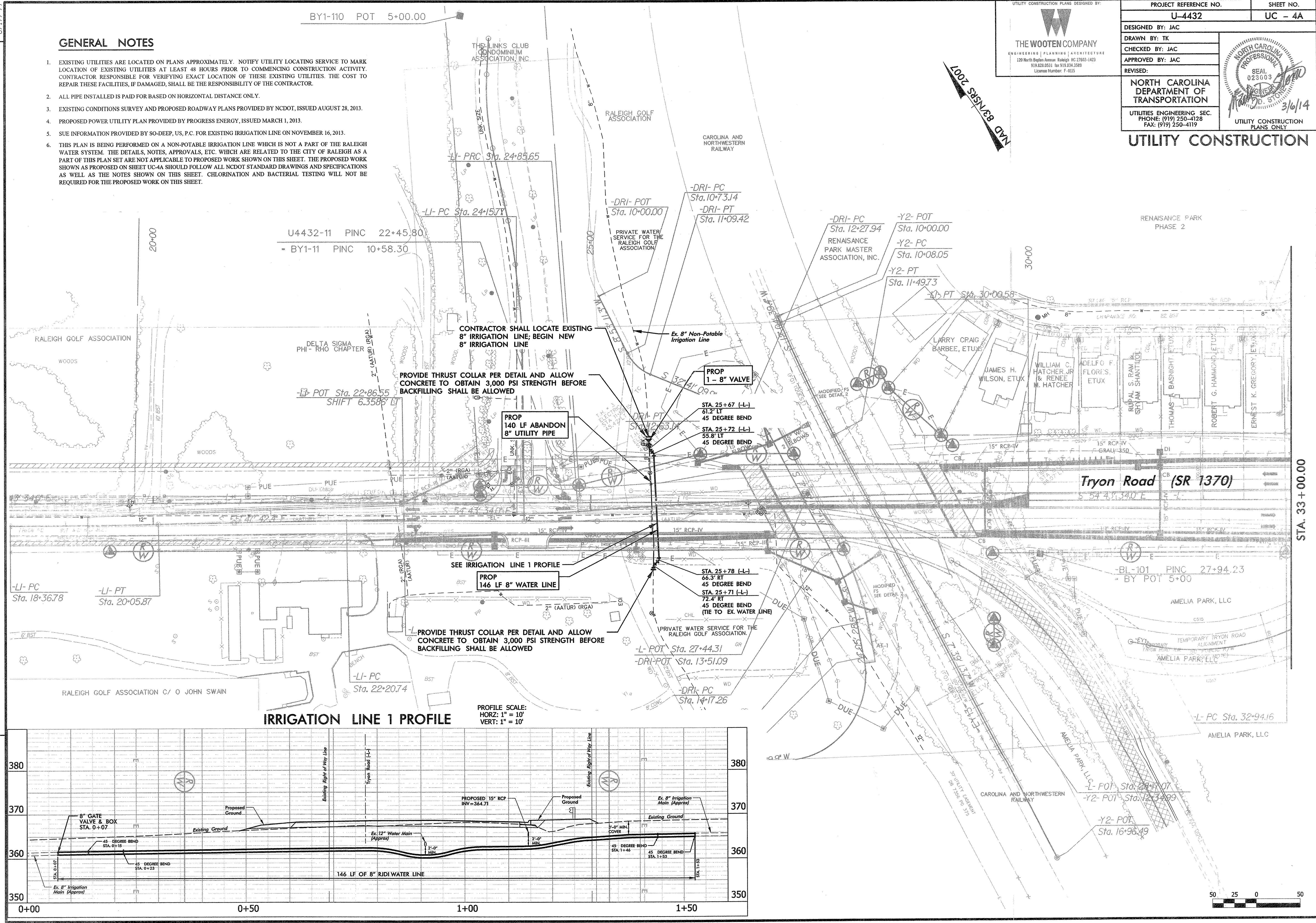
- EXISTING UTILITIES ARE LOCATED ON PLANS APPROXIMATELY. NOTIFY UTILITY LOCATING SERVICE TO MARK LOCATION OF EXISTING UTILITIES AT LEAST 48 HOURS PRIOR TO COMMENCING CONSTRUCTION ACTIVITY. CONTRACTOR RESPONSIBLE FOR VERIFYING EXACT LOCATION OF THESE EXISTING UTILITIES. THE COST TO REPAIR THESE FACILITIES, IF DAMAGED, SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR.
- ALL PIPE INSTALLED IS PAID FOR BASED ON HORIZONTAL DISTANCE ONLY.
- EXISTING CONDITIONS SURVEY AND PROPOSED ROADWAY PLANS PROVIDED BY NCDOT, ISSUED AUGUST 28, 2013.
- PROPOSED POWER UTILITY PLAN PROVIDED BY PROGRESS ENERGY, ISSUED MARCH 1, 2013.
- SUE INFORMATION PROVIDED BY SO-DEEP, US, P.C. FOR EXISTING IRRIGATION LINE ON NOVEMBER 16, 2013.
- THIS PLAN IS BEING PERFORMED ON A NON-POTABLE IRRIGATION LINE WHICH IS NOT A PART OF THE RALEIGH WATER SYSTEM. THE DETAILS, NOTES, APPROVALS, ETC. WHICH ARE RELATED TO THE CITY OF RALEIGH AS A PART OF THIS PLAN SET ARE NOT APPLICABLE TO PROPOSED WORK SHOWN ON THIS SHEET. THE PROPOSED WORK SHOWN AS PROPOSED ON SHEET UC-4A SHOULD FOLLOW ALL NCDOT STANDARD DRAWINGS AND SPECIFICATIONS AS WELL AS THE NOTES SHOWN ON THIS SHEET. CHLORINATION AND BACTERIAL TESTING WILL NOT BE REQUIRED FOR THE PROPOSED WORK ON THIS SHEET.

UTILITY CONSTRUCTION PLANS DESIGNED BY



THE WOOTEN COMPANY
ENGINEERING | PLANNING | ARCHITECTURE
120 North Baylan Avenue Raleigh, NC 27603-1423
919.828.5551 fax 919.824.3589
License Number: F-0115

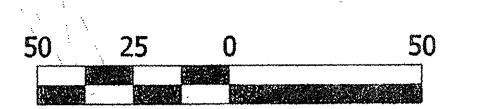
PROJECT REFERENCE NO.	U-4432	SHEET NO.	UC - 4A
DESIGNED BY:	JAC		
DRAWN BY:	TK		
CHECKED BY:	JAC		
APPROVED BY:	JAC		
REVISED:			
NORTH CAROLINA DEPARTMENT OF TRANSPORTATION		 SEAL 023003 3/6/14	
UTILITIES ENGINEERING SEC. PHONE: (919) 250-4128 FAX: (919) 250-4119		UTILITY CONSTRUCTION PLANS ONLY	




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REVISIONS

STA. 33 + 00.00

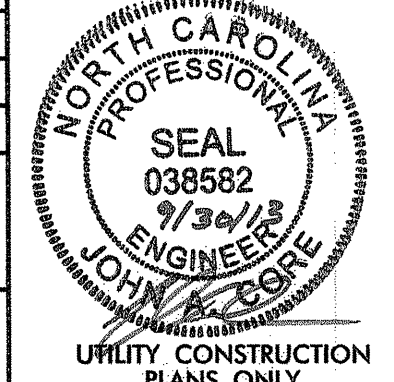


UTILITY CONSTRUCTION PLANS DESIGNED BY:



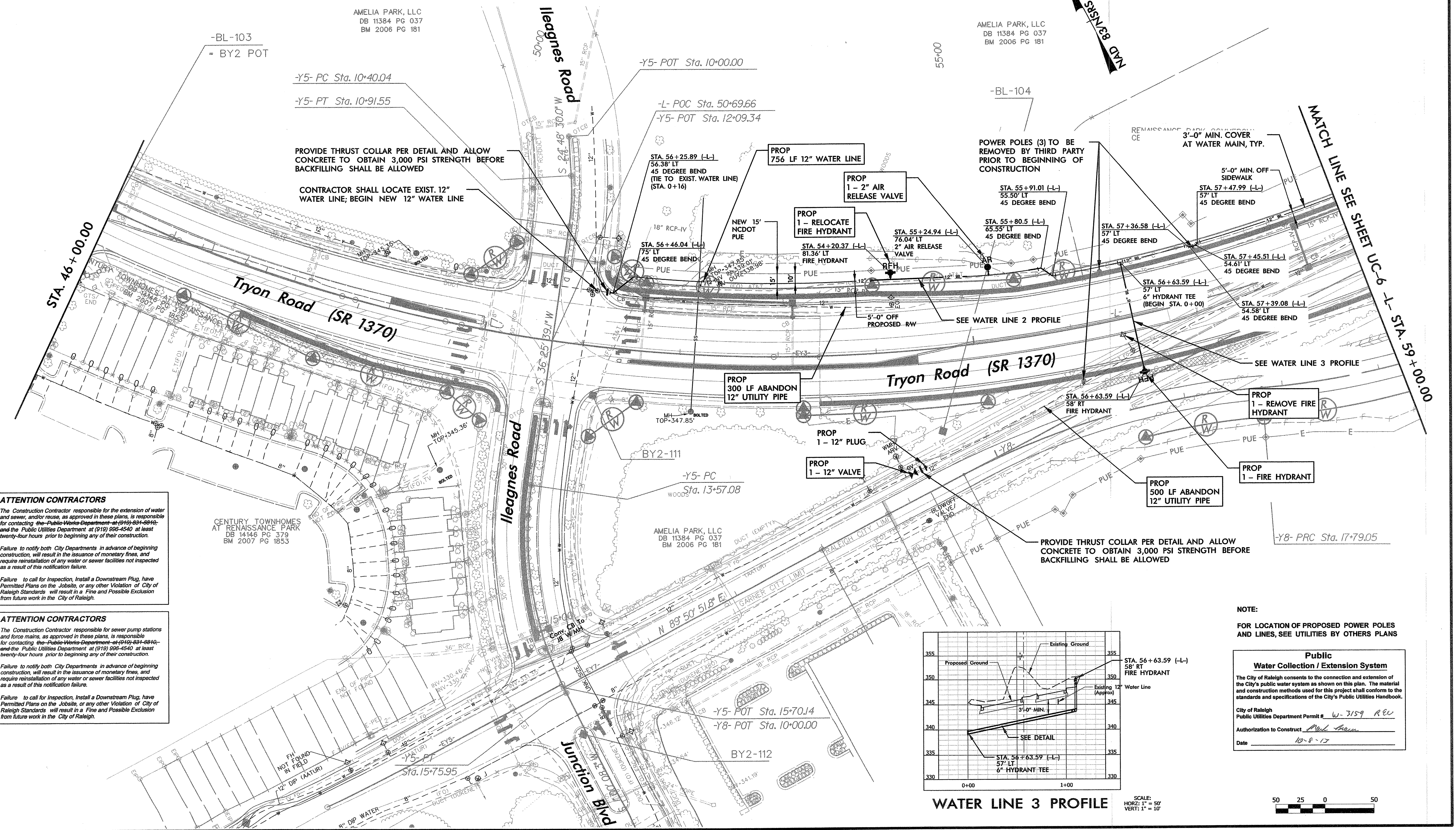
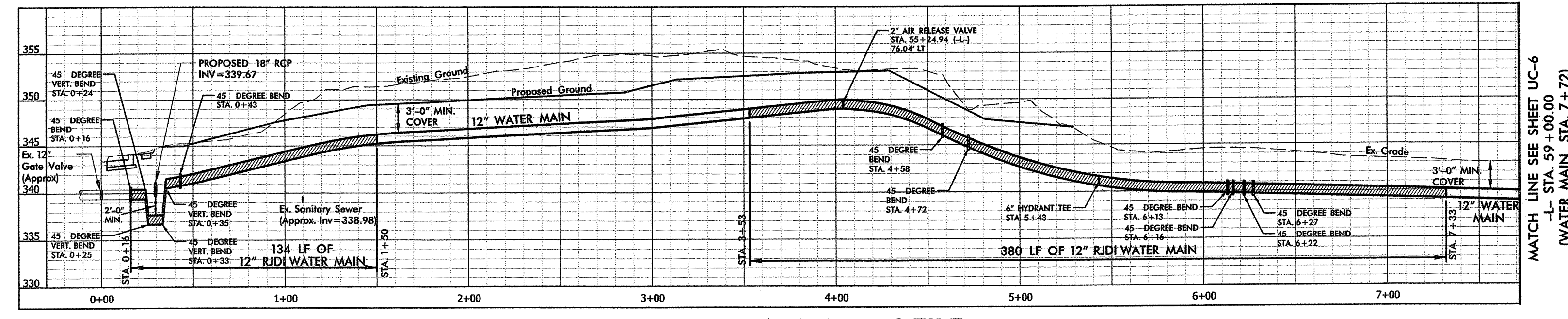
THE WOOTEN COMPANY
ENGINEERING | PLANNING | ARCHITECTURE
120 North Boylan Avenue, Raleigh, NC 27603-1423
919.828.9531 Fax 919.834.3589
License Number: P-0115

PROJECT REFERENCE NO.	SHEET NO.
U-4432	UC - 5
DESIGNED BY: JAC	
DRAWN BY: TK	
CHECKED BY: JAC	
APPROVED BY: JAC	
REVISED:	



NORTH CAROLINA DEPARTMENT OF TRANSPORTATION
UTILITIES ENGINEERING SEC.
PHONE: (919) 250-4128
FAX: (919) 250-4119

UTILITY CONSTRUCTION



ATTENTION CONTRACTORS

The Construction Contractor responsible for the extension of water and sewer, and/or reuse, as approved in these plans, is responsible for contacting the Public Works Department at (919) 691-6910 and the Public Utilities Department at (919) 500-4540 at least twenty-four hours prior to beginning any of their construction.

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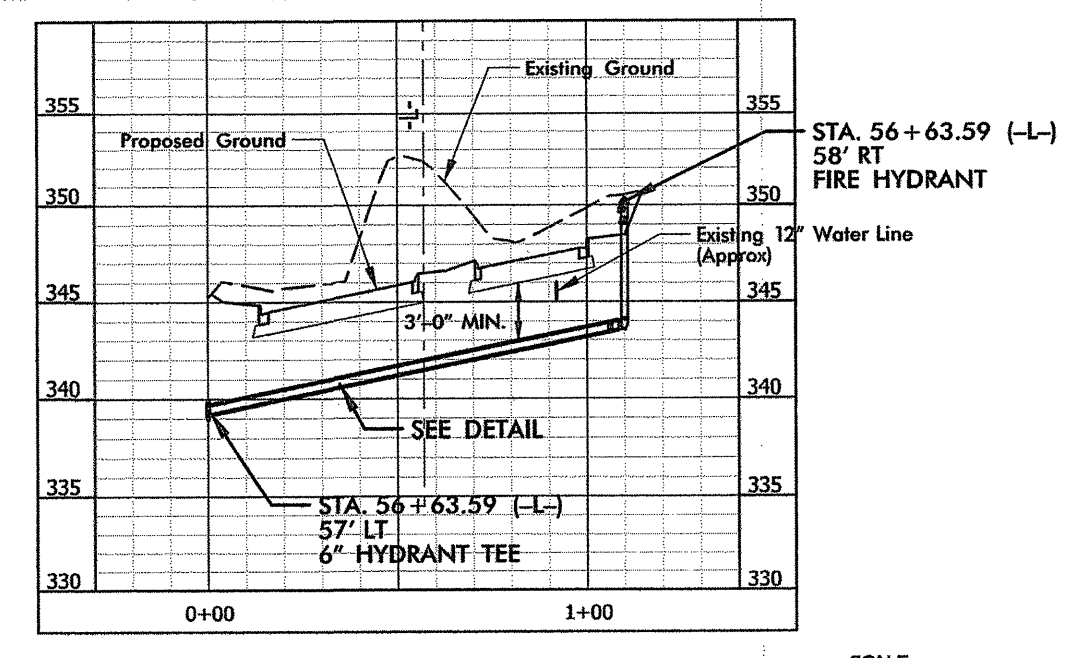
NOTE:

FOR LOCATION OF PROPOSED POWER POLES AND LINES, SEE UTILITIES BY OTHERS PLANS

Public Water Collection / Extension System

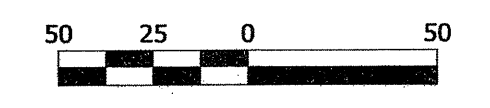
The City of Raleigh consents to the connection and extension of the City's public water system as shown on this plan. The material and construction methods used for this project shall conform to the standards and specifications of the City's Public Utilities Handbook.

City of Raleigh
Public Utilities Department Permit # W-7159 REV
Authorization to Construct Paul Brown
Date 10-8-13



REVISIONS

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9/30/2013
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-Y6- POT Sta. 10+00.00

BYPASS PUMPING NOTES:

- CONTRACTOR SHALL PROVIDE BYPASS FROM PUMP STATION SITE. COORDINATE ACCESS WITH TIM KEENE (919-796-6797).
- TIE-IN /BYPASS PUMPING TO BE PERFORMED AT PERIODS OF LOW OR NO FLOW AS NECESSARY.

-Y6- PC Sta. 11+41.11

PROP 143 LF 6" FORCE MAIN SEWER

SEE FORCE MAIN SEWER 1 PROFILE AND BYPASS PUMPING NOTE (THIS SHEET)

PROP 212 LF 12" WATER LINE

SEE WATER LINE 2 PROFILE

MATCH LINE SEE SHEET UC-5 -L- STA. 59+00.00

MATCH LINE SEE SHEET UC-5 -L- STA. 59+00.00

-Y8- PT Sta. 21+08.72

BROOMFIELD, LLC
DB 8588 PG 2153

N 83° 51' 44.4" E

DRIVE, LLC
DB 15069 PG 2317
BM 2011 PG 1185

U/C

AMELIA PARK, LLC
DB 11384 PG 0377
BM 2006 PG 181

RENAISSANCE PARK COMMERCIAL CENTER EAST ASSOCIATION, INC.
DB 14492 PG 2124
BM 2010 PG 1032

STA. 14+02.87 (-Y6)
34' RT
22.5 DEGREE BEND

STA. 14+19.95 (-Y6)
43.88' RT
22.5 DEGREE BEND

PROP 1 - FIRE HYDRANT
STA. 14+23.97 (-Y6)
44.47' RT
45 DEGREE BEND

PROP 1 - FIRE HYDRANT
STA. 59+51.51 (-L)
63' LT
FIRE HYDRANT

PROP 1 - 2" AIR RELEASE VALVE
5'-0" OFF SIDEWALK

PROP 1 - REMOVE FIRE HYDRANT
STA. 60+71.91 (-L)
54.98' LT
45 DEGREE BEND

PROP 1 - REMOVE FIRE HYDRANT

PROP 210 LF ABANDON 12" UTILITY PIPE

STA. 13+12.41 (-Y6)
25.26' RT
45 DEGREE BEND

PROVIDE THRUST COLLAR PER DETAIL AND ALLOW CONCRETE TO OBTAIN 3,000 PSI STRENGTH BEFORE BACKFILLING SHALL BE ALLOWED

STA. 13+08.13
20.96' RT
45 DEGREE BEND
BEGIN STA. 0+00
(TIE TO EXIST. FORCE MAIN)

STA. 13+28.67 (-Y6)
25.23' RT
22.5 DEGREE BEND

STA. 13+51.12 (-Y6)
34' RT
22.5 DEGREE BEND

PROP 134 LF ABANDON OF 6" UTILITY PIPE

PROP 1 - FIRE HYDRANT
STA. 62+64.0 (-L)
48' LT
FIRE HYDRANT

PROP 1 - REMOVE FIRE HYDRANT

45 DEGREE BEND (TIE TO EXIST. FORCE MAIN)

PROVIDE THRUST COLLAR PER DETAIL AND ALLOW CONCRETE TO OBTAIN 3,000 PSI STRENGTH BEFORE BACKFILLING SHALL BE ALLOWED

PROP 1 - REMOVE FIRE HYDRANT

45 DEGREE BEND (TIE TO EXIST. WATER LINE)

PROP 1 - REMOVE FIRE HYDRANT

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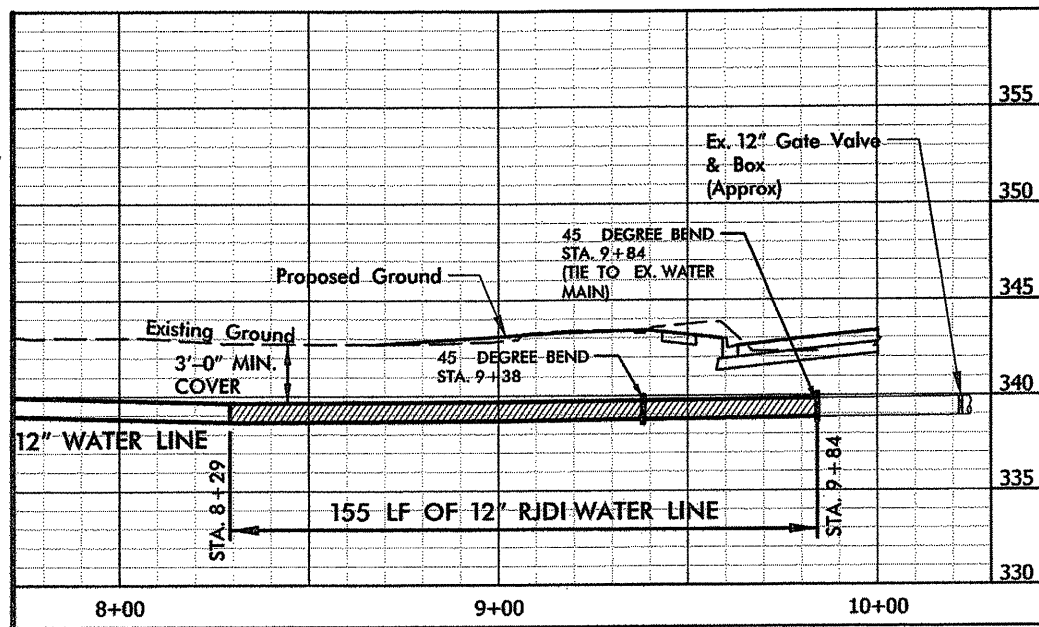
PROP 1 - REMOVE FIRE HYDRANT

PROP 1 - REMOVE FIRE HYDRANT

PROP 1 - REMOVE FIRE HYDRANT

PROP 1 - REMOVE FIRE HYDRANT

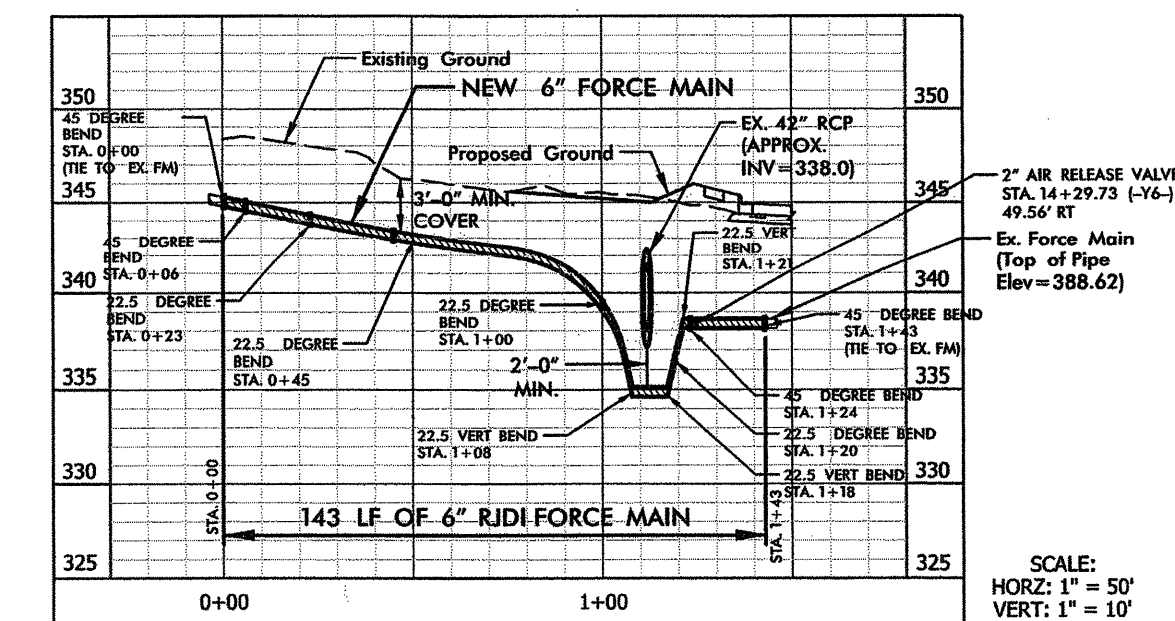
PROP 1 - REMOVE FIRE HYDRANT



WATER LINE 2 PROFILE

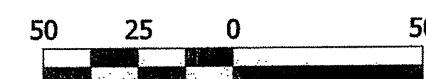
SCALE: HORIZ: 1" = 50'
VERT: 1" = 10'

Tryon Road (SR 1370)



FORCE MAIN SEWER 1 PROFILE

SCALE: HORIZ: 1" = 50'
VERT: 1" = 10'



NAD 83/NSRS 2007

NAD 83/NSRS 2

UTILITY CONSTRUCTION PLANS DESIGNED BY:

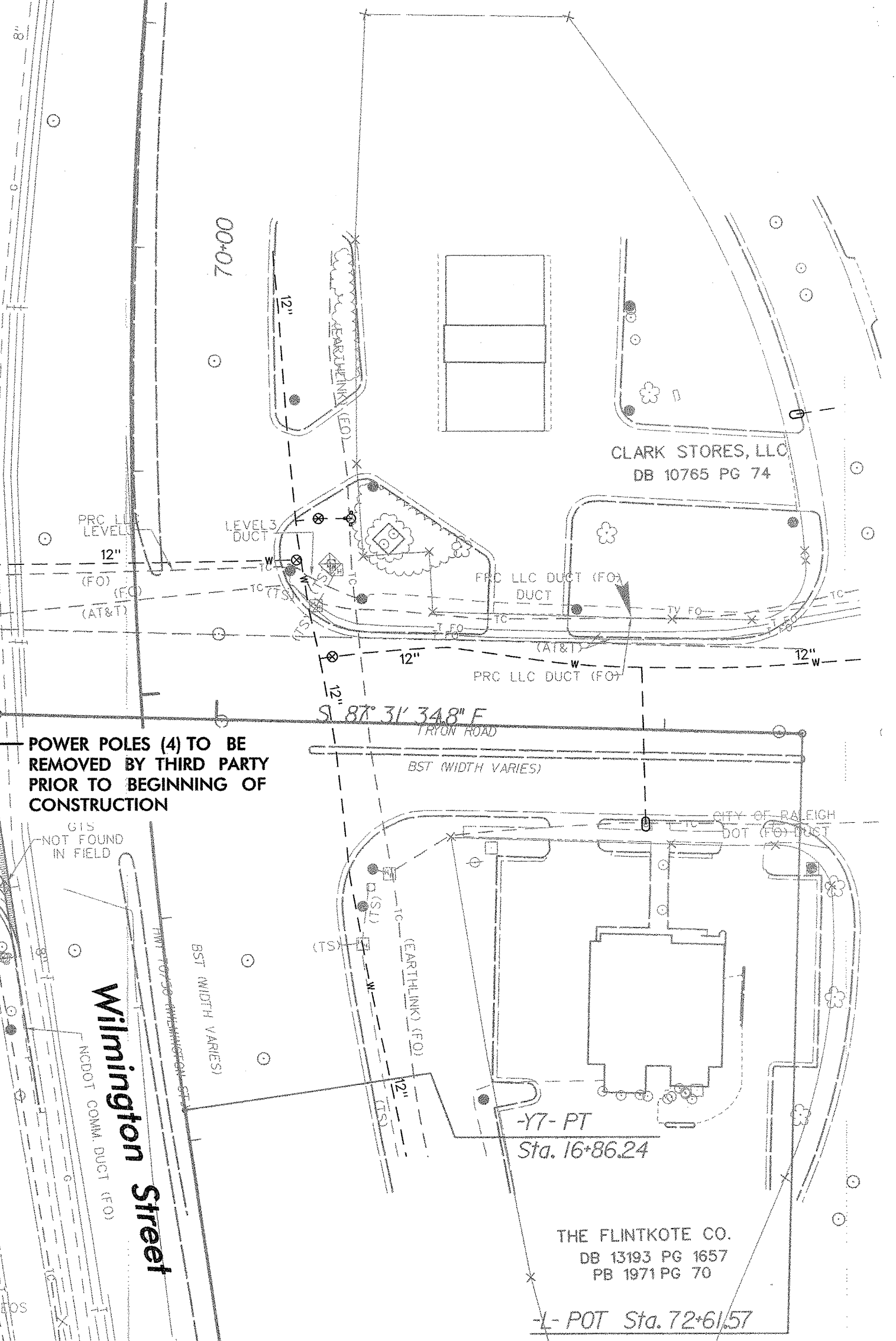
THE WOOTEN COMPANY
ENGINEERING | PLANNING | ARCHITECTURE
129 North Boyles Avenue Raleigh, NC 27603-1423
919.878.0531 fax 919.834.3589
License Number: F-0115

PROJECT REFERENCE NO. U-4432	SHEET NO. UC - 6
DESIGNED BY: JAC	
DRAWN BY: TK	
CHECKED BY: JAC	
APPROVED BY: JAC	
REVISED:	NORTH CAROLINA DEPARTMENT OF TRANSPORTATION UTILITIES ENGINEERING SEC. PHONE: (919) 250-4128 FAX: (919) 250-4119

UTILITY CONSTRUCTION

NOTE:

FOR LOCATION OF PROPOSED POWER POLES AND LINES, SEE UTILITIES BY OTHERS PLANS



Public Water Collection / Extension System

The City of Raleigh consents to the connection and extension of the City's public water system as shown on this plan. The material and construction methods used for this project shall conform to the standards and specifications of the City's Public Utilities Handbook.

City of Raleigh
Public Utilities Department Permit # W-389 RW
Authorization to Construct: Paul Brown
Date: 10-8-17

Public Sewer Collection / Extension System

The City of Raleigh consents to the connection and extension of the City's public sewer system as shown on this plan. The material and construction methods used for this project shall conform to the standards and specifications of the City's Public Utilities Handbook.

City of Raleigh
Public Utilities Department Permit # S-3870 RW
Authorization to Construct: Paul Brown
Date: 10-8-17

ATTENTION CONTRACTORS

The Construction Contractor responsible for the extension of water and sewer, and/or reuse, as approved in these plans, is responsible for contacting the Public Works Department at (919) 991-6910 and the Public Utilities Department at (919) 996-4540 at least twenty-four hours prior to beginning any of their construction.

Failure to notify both City Departments in advance of beginning construction, will result in the issuance of monetary fines, and require reinstatement of any water or sewer facilities not inspected as a result of this notification failure.

Failure to call for inspection, install a Downstream Plug, have Permitted Plans on the Jobsite, or any other Violation of City of Raleigh Standards will result in a Fine and Possible Exclusion from future work in the City of Raleigh.

ATTENTION CONTRACTORS

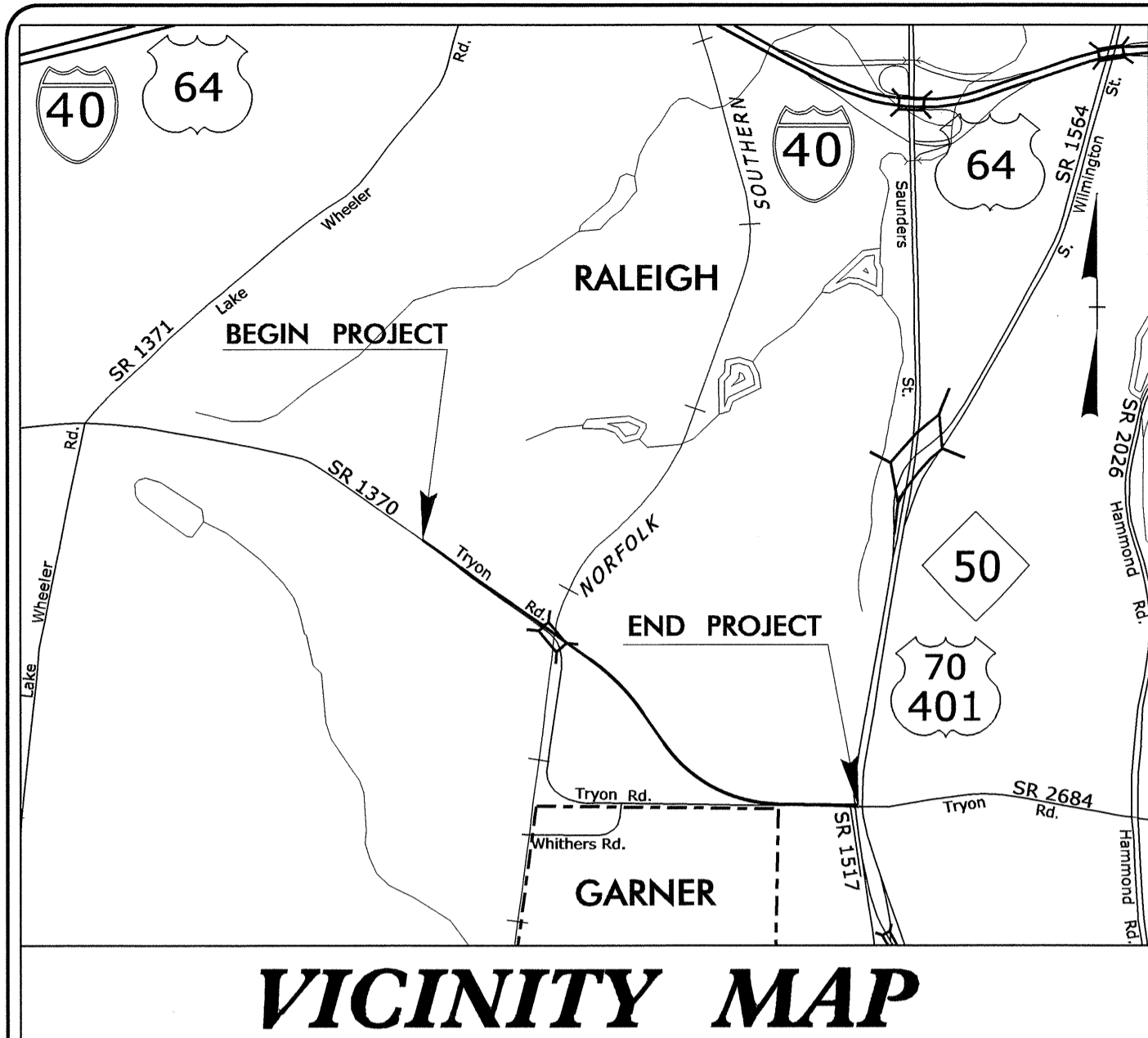
The Construction Contractor responsible for sewer pump stations and force mains, as approved in these plans, is responsible for contacting the Public Works Department at (919) 991-6910 and the Public Utilities Department at (919) 996-4540 at least twenty-four hours prior to beginning any of their construction.

Failure to notify both City Departments in advance of beginning construction, will result in the issuance of monetary fines, and require reinstatement of any water or sewer facilities not inspected as a result of this notification failure.

Failure to call for inspection, install a Downstream Plug, have Permitted Plans on the Jobsite, or any other Violation of City of Raleigh Standards will result in a Fine and Possible Exclusion from future work in the City of Raleigh.

09/08/99

TIP PROJECT: U-4432



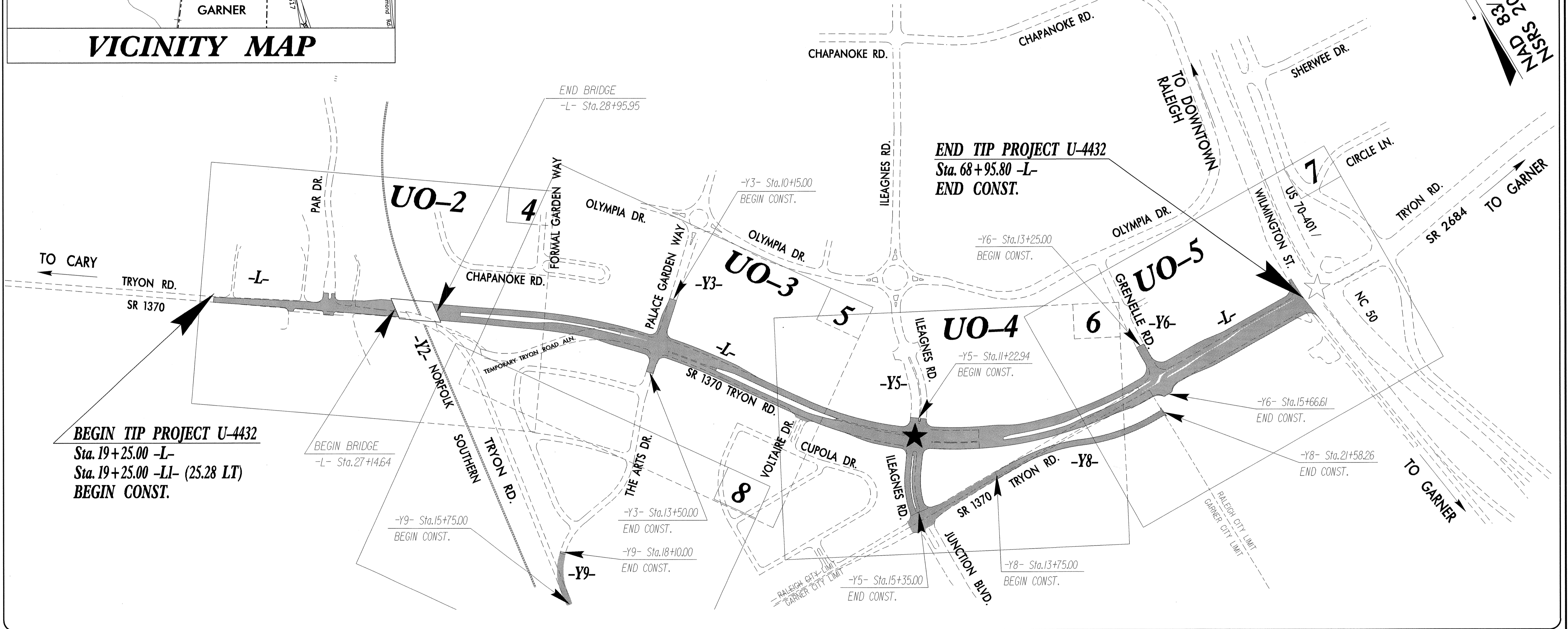
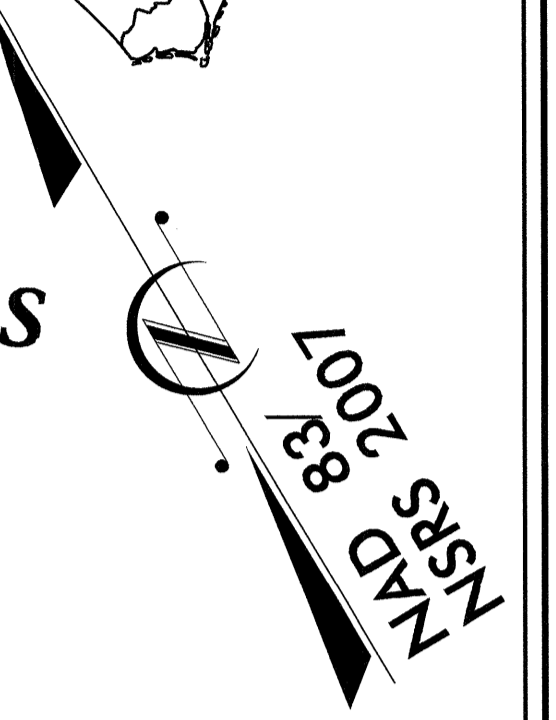
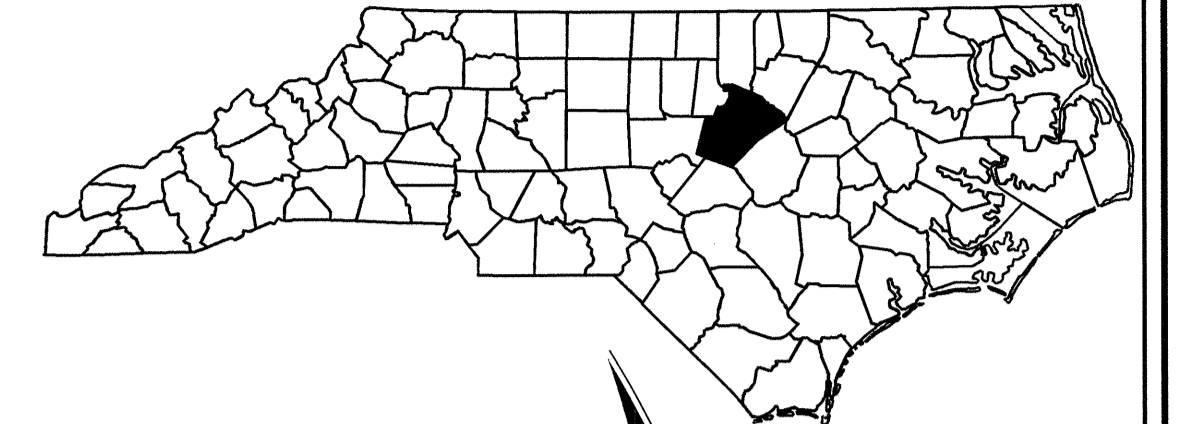
VICINITY MAP

STATE OF NORTH CAROLINA
DIVISION OF HIGHWAYS

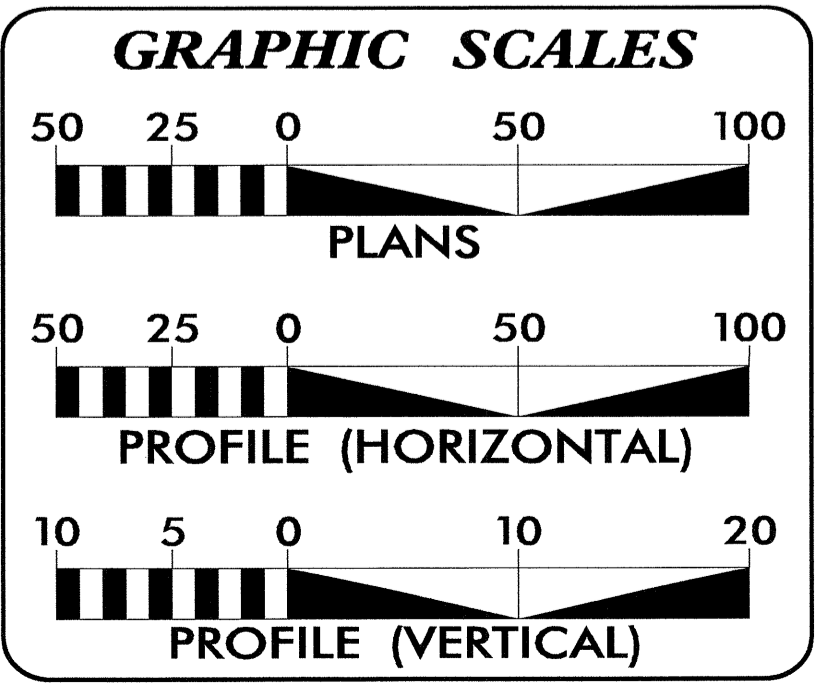
**UTILITIES BY OTHERS PLANS
WAKE COUNTY**

LOCATION: SR 1370 (TRYON ROAD) FROM WEST OF BRIDGE No. 259 TO US 70-401/NC 50 (WILMINGTON STREET)
TYPE OF WORK: RELOCATION OF POWER, TELEPHONE, CABLE TV, AND FIBER OPTICS

T.I.P. NO.	SHEET NO.
U-4432	UO-1



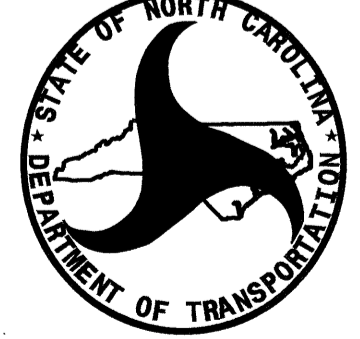
24-APR-2014 07:10 R:\Utilities\Engineering\UB0\Proj\U4432_U1_tsh_u01_psh.dgn



INDEX OF SHEETS

SHEET NO.	DESCRIPTION
UO-1	TITLE SHEET
UO-2 THRU UO-6	UTILITY BY OTHERS PLAN SHEETS

- UTILITY OWNERS ON PROJECT**
- (A) DUKE ENERGY PROGRESS - POWER
 - (B) A T & T - TELEPHONE
 - (C) DUKENET - TELEPHONE
 - (D) FRC, LLC. (SPIRIT COMMUNICATION) - TELEPHONE
 - (E) TIME WARNER CABLE - CATV
 - (F) PSNC ENERGY - GAS



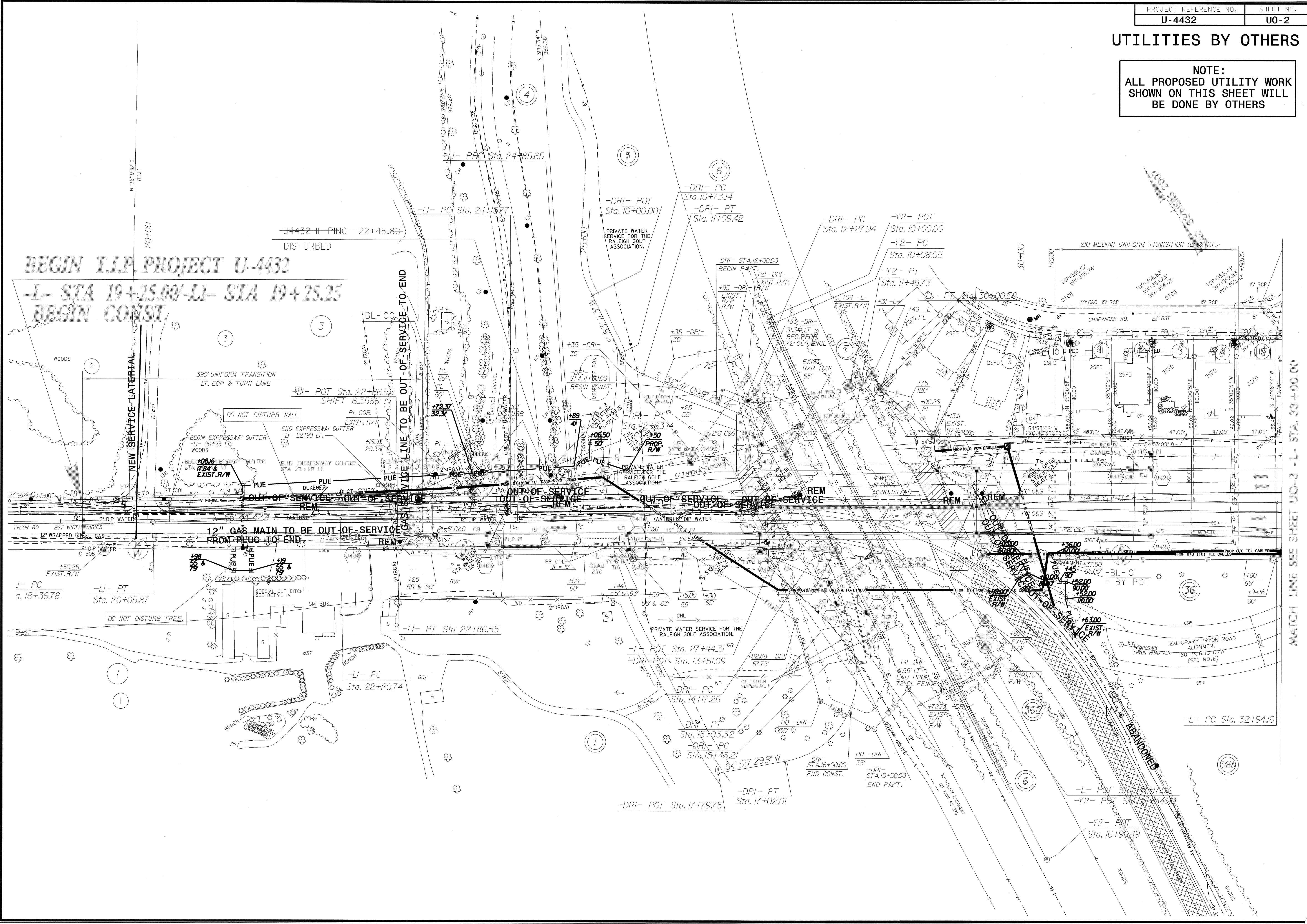
PREPARED IN THE OFFICE OF:
**DIVISION OF HIGHWAYS
UTILITIES UNIT
UTILITIES ENGINEERING**

1555 MAIL SERVICES CENTER
RALEIGH, NC 27699-1555
PHONE (919) 707-6690
FAX (919) 250-4151

Roger Worthington, P.E. UTILITIES SECTION ENGINEER
Steve McKee, P.E. UTILITIES SQUAD LEADER PROJECT ENGINEER
John Nigro UTILITIES PROJECT DESIGNER

UTILITIES BY OTHERS

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



BEGIN T.I.P. PROJECT U-4432
-L- STA 19+25.00 -LI- STA 19+25.25
BEGIN CONST.

12" GAS MAIN TO BE OUT-OF-SERVICE FROM PLUG TO END

NEW SERVICE LATERAL

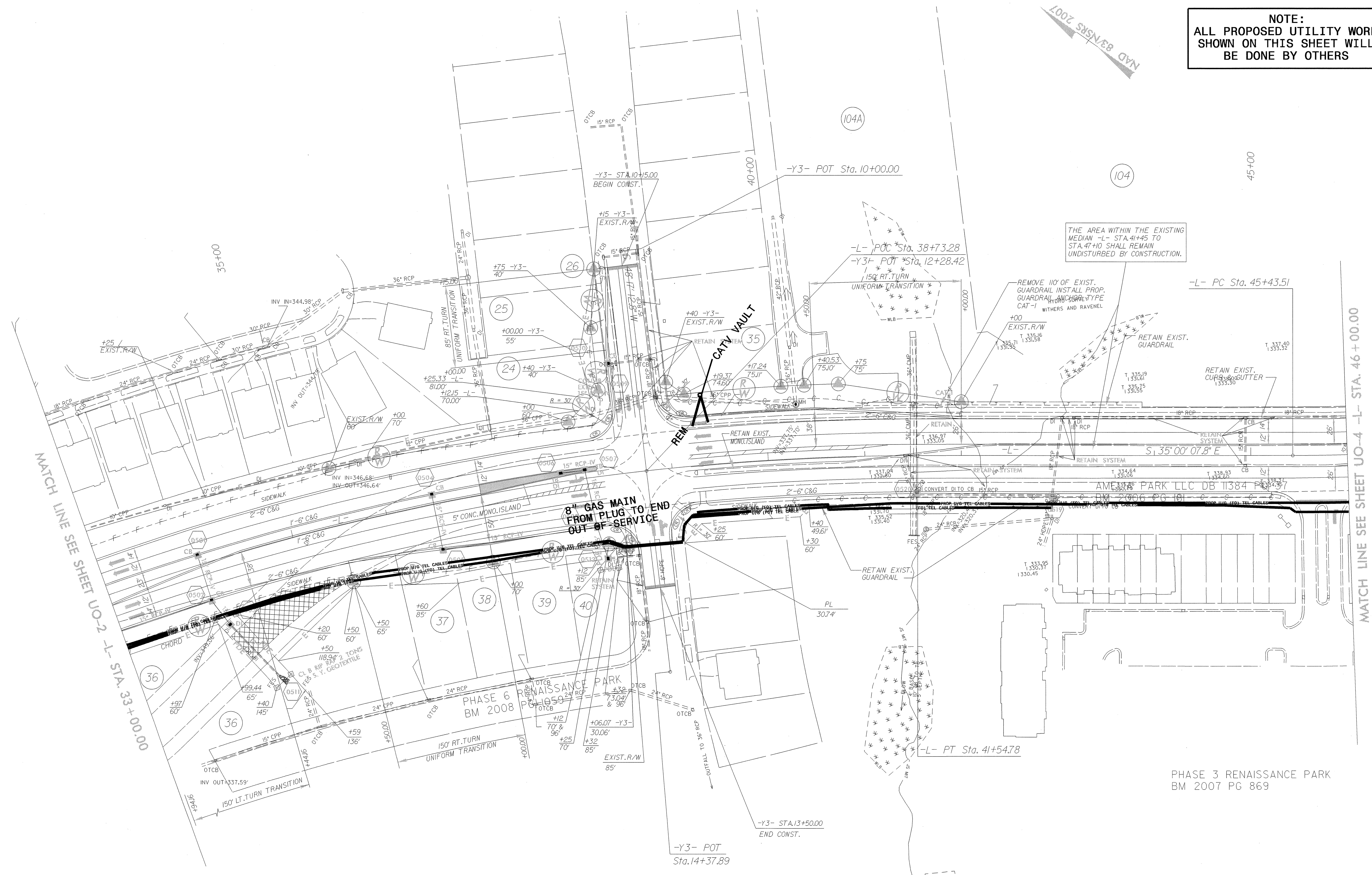
UTILITY LINE TO BE OUT-OF-SERVICE TO END

MATCH LINE SEE SHEET UO-3 -L- STA. 33+00.00

29-OCT-2013 16:00
 eas:\engr\eng\ing\UO-2.dwg
 5/14/99
 29-OCT-2013 16:00
 eas:\engr\eng\ing\UO-2.dwg
 5/14/99

UTILITIES BY OTHERS

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



MAD B/SNS/8 07/07

MATCH LINE SEE SHEET UO-2 -L- STA. 33+00.00

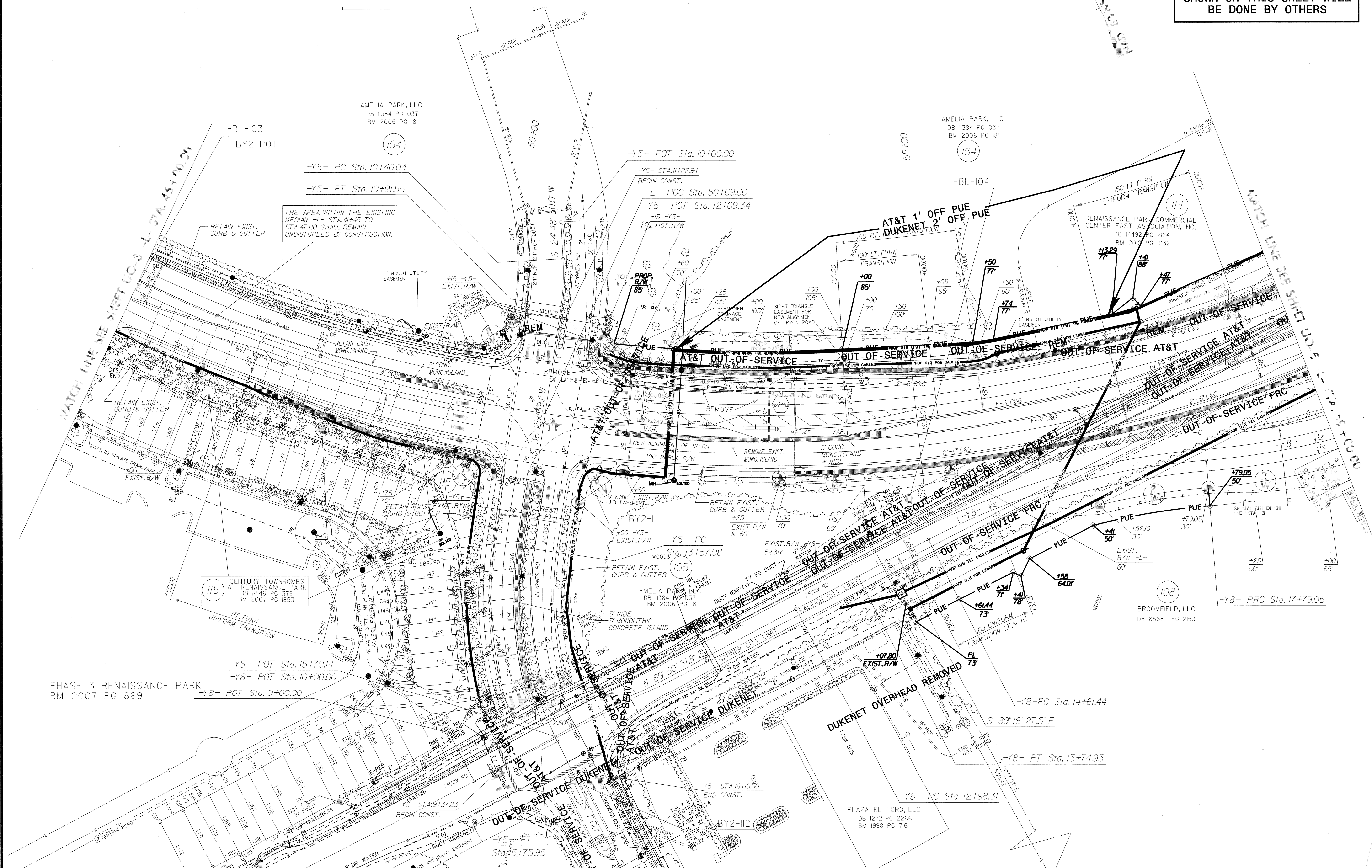
MATCH LINE SEE SHEET UO-4 -L- STA. 46+00.00

PHASE 3 RENAISSANCE PARK
BM 2007 PG 869

5/14/99
29-OCT-2013 15:59
alites\Engineering\UGO\Proj\U4432-Ut_5_U03.psh.dgn
***** UNREVIEWED *****

UTILITIES BY OTHERS

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



5/14/99
 29-OCT-2013 15:58
 I:\t\ees\Engineering\U0\U04432_U0-4_U04_psh.dgn
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