

See Sheet 1-A For Index of Sheets  
See Sheet 1-B For CONVENTIONAL SYMBOLS

STATE OF NORTH CAROLINA  
DIVISION OF HIGHWAYS

T.I.P. NO.	SHEET NO.
U-3308	UO-01

**UTILITIES BY OTHERS  
DURHAM COUNTY**

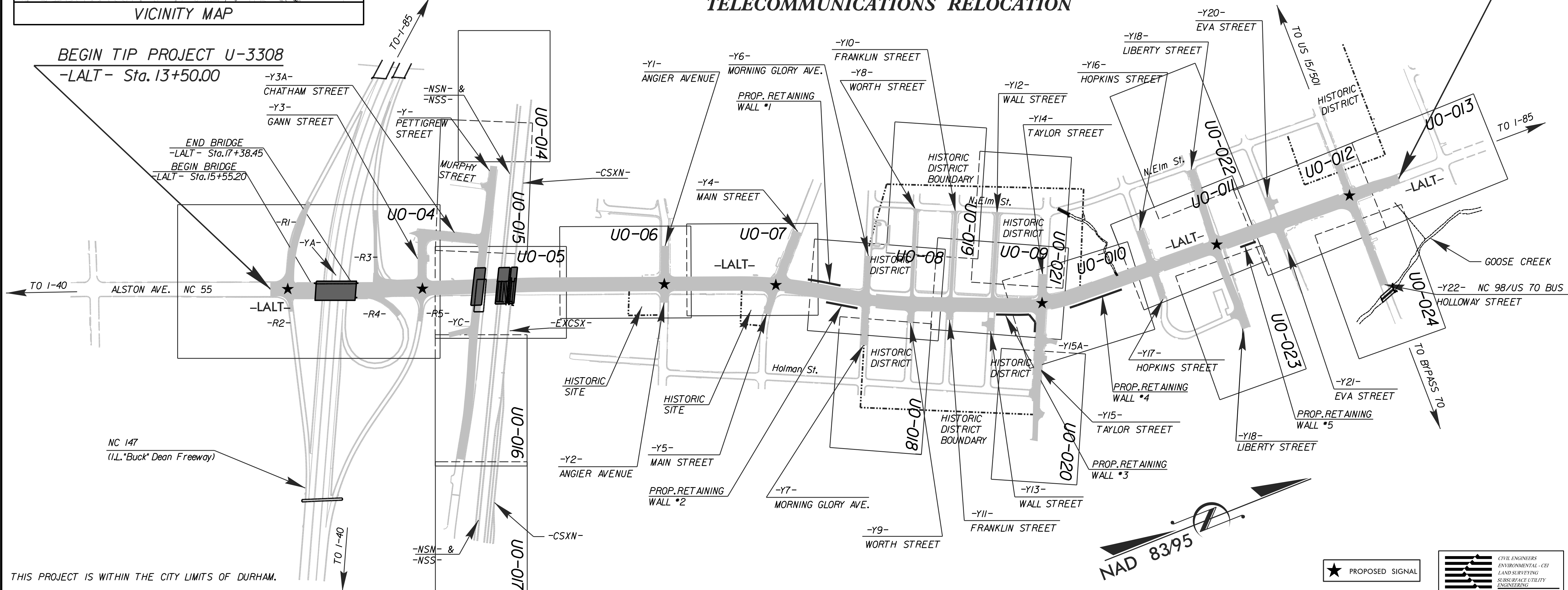
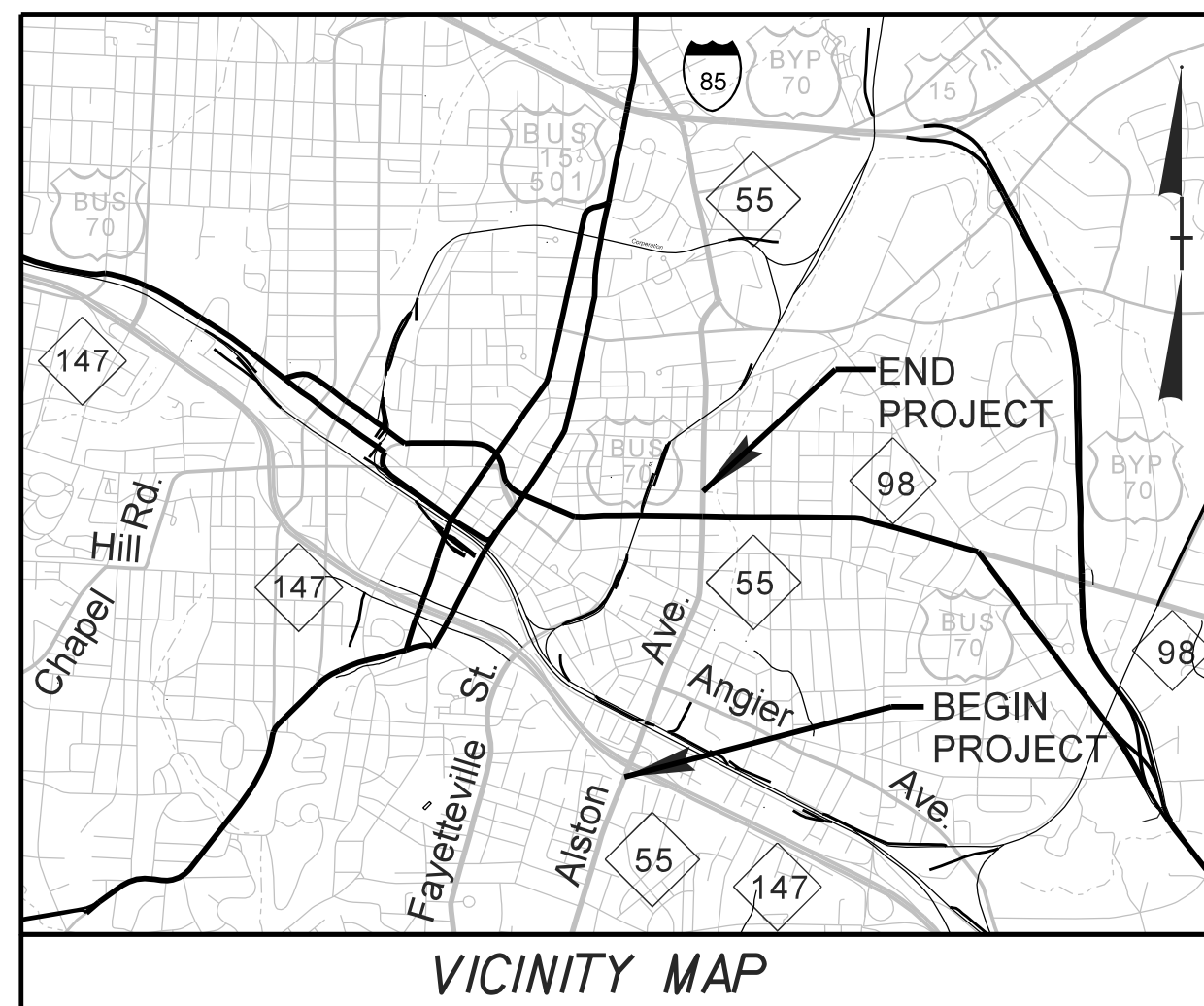
LOCATION: NC 55 (ALSTON AVE.) FROM NC 147 (I.L. "BUCK" DEAN  
FREEWAY) TO NORTH OF US 70 BUS/NC 98 (HOLLOWAY ST.)

TYPE OF WORK: OVERHEAD AND UNDERGROUND POWER, GAS &  
TELECOMMUNICATIONS RELOCATION

END TIP PROJECT U-3308  
-LALT- Sta. 66+10.00

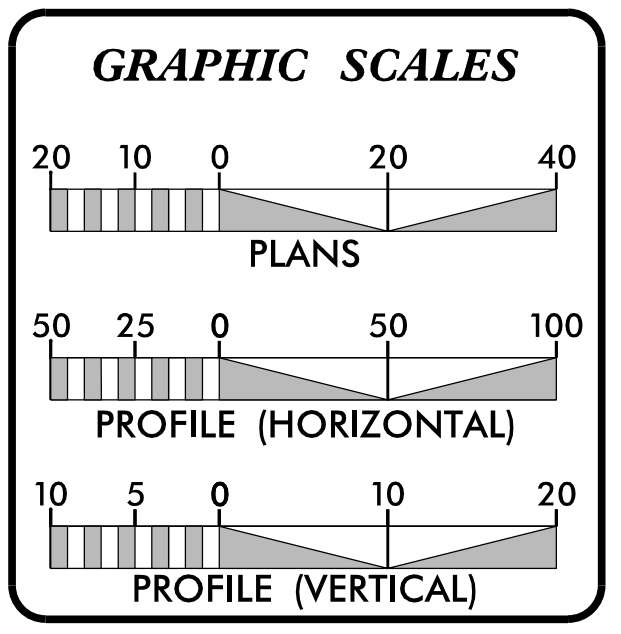
CONTRACT: U-3308

CONTRACT: U-3308



THIS PROJECT IS WITHIN THE CITY LIMITS OF DURHAM.

CLEARING SHALL BE PERFORMED ON THIS PROJECT TO THE LIMITS  
ESTABLISHED BY METHOD III



**INDEX OF SHEETS**

SHEET NO.	DESCRIPTION
UO-01	TITLE SHEET
UO-02	GENERAL NOTES
UO-03	CONVENTIONAL PLAN SHEET SYMBOLS
UO-04 THRU UO-024	UTILITIES BY OTHERS PLAN SHEETS

**UTILITY OWNERS ON PROJECT**

(A)	DUKE ENERGY - POWER (DISTRIBUTION)
(B)	DUKE ENERGY - POWER (TRANSMISSION)
(C)	TIME WARNER CABLE - (CABLE TV)
(D)	FRONTIER COMMUNICATIONS - (COMMUNICATIONS)
(E)	PIEDMONT NATURAL GAS - (NATURAL GAS)

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

1555 MAIL SERVICES CENTER  
RALEIGH, NC 27699-1555  
PHONE (919) 707-6690  
FAX (919) 250-4119

**Roger Worthington, P.E.** UTILITIES SECTION ENGINEER  
**Steve McKee, P.E.** UTILITIES SQUAD LEADER PROJECT ENGINEER  
**Michael Bright** UTILITIES PROJECT DESIGNER

9:51:24 AM U:\3308\_rdy\_sh\_ub0.dgn U-3308\_rdy\_sh\_ub0.dgn Division: P007 Utility Services Emp Joshua Barbour









# INDEX OF SHEETS

SHEET NUMBER	SHEET
U0-01	TITLE SHEET
U0-02	INDEX OF SHEETS, STANDARD DRAWINGS, GENERAL NOTES
U0-03	CONVENTIONAL PLAN SHEET SYMBOLS
U0-04 THRU U0-024	UBO PLAN SHEETS

# UTILITY CONTACTS

UTILITY	CONTACT NAME	CONTACT PHONE NUMBER
DUKE ENERGY (POWER DISTRIBUTION)	STEVE WHITTEMORE	(336)-214-8712
DUKE ENERGY (POWER TRANSMISSION)	MIKE MONTGOMERY	(704)-382-6468
TIME WARNER CABLE	GEORGE STOTLER	(919)-573-7667
FRONTIER COMMUNICATIONS	MARCUS DICKINSON	(919)-560-2917
PIEDMONT NATURAL GAS	REID CRANE	(919)-367-2713

## LEGEND

	PROPOSED OVERHEAD POWER TRANSMISSION LINE
	PROPOSED OVERHEAD CATV & TELEPHONE CABLES
	PROPOSED UNDERGROUND TELEPHONE CABLES
	TEMPORARY UNDERGROUND TELEPHONE CABLES
	PROPOSED GAS LINE
	EXISTING UTILITY TO BE ABANDONED IN PLACE (BY CORRESPONDING UTILITY COMPANY)
	EXISTING UTILITY POLE TO BE REMOVED (BY CORRESPONDING UTILITY COMPANY)
	PROPOSED UTILITY POLE (BY CORRESPONDING UTILITY COMPANY)

STATE OF NORTH CAROLINA  
DIVISION OF HIGHWAYS

# CONVENTIONAL PLAN SHEET SYMBOLS

*Note: Not to Scale*

\*S.U.E. = *Subsurface Utility Engineering*

**BOUNDARIES AND PROPERTY:**

State Line	-----
County Line	-----
Township Line	-----
City Line	-----
Reservation Line	-----
Property Line	-----
Existing Iron Pin	○ EP
Property Corner	-----
Property Monument	□ ECM
Parcel/Sequence Number	⑫③
Existing Fence Line	-x-x-x-
Proposed Woven Wire Fence	○
Proposed Chain Link Fence	□
Proposed Barbed Wire Fence	◇
Existing Wetland Boundary	----- WLB
Proposed Wetland Boundary	----- WLB
Existing Endangered Animal Boundary	----- EAB
Existing Endangered Plant Boundary	----- EPB
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	○ S
Well	○ W
Small Mine	✕
Foundation	□
Area Outline	□
Cemetery	⊕
Building	□
School	□
Church	⊕
Dam	▬

**HYDROLOGY:**

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

**RAILROADS:**

Standard Gauge	-----
RR Signal Milepost	○
Switch	□ 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 RW Marker	○
Proposed Control of Access Line with Concrete CA Marker	○
Existing Control of Access	○
Proposed Control of Access	○
Existing Easement Line	----- E
Proposed Temporary Construction Easement	----- E
Proposed Temporary Drainage Easement	----- TDE
Proposed Permanent Drainage Easement	----- PDE
Proposed Permanent Drainage / Utility Easement	----- DUE
Proposed Permanent Utility Easement	----- PUE
Proposed Temporary Utility Easement	----- TUE
Proposed Aerial Utility Easement	----- AUE
Proposed Permanent Easement with Iron Pin and Cap Marker	◆

**ROADS AND RELATED FEATURES:**

Existing Edge of Pavement	-----
Existing Curb	-----
Proposed Slope Stakes Cut	----- C
Proposed Slope Stakes Fill	----- F
Proposed Curb Ramp	○ CR
Existing Metal Guardrail	-----
Proposed Guardrail	-----
Existing Cable Guiderail	-----
Proposed Cable Guiderail	-----
Equality Symbol	⊕
Pavement Removal	XXXX
VEGETATION:	
Single Tree	☼
Single Shrub	☼
Hedge	-----
Woods Line	-----

Orchard	-----
Vineyard	-----

**EXISTING STRUCTURES:**

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

**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	----- P
Designated U/G Power Line (S.U.E.*)	----- P

**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	----- T
Designated U/G Telephone Cable (S.U.E.*)	----- T
Recorded U/G Telephone Conduit	----- TC
Designated U/G Telephone Conduit (S.U.E.*)	----- TC
Recorded U/G Fiber Optics Cable	----- T FO
Designated U/G Fiber Optics Cable (S.U.E.*)	----- T FO

**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	----- A/G Water

**TV:**

TV Satellite Dish	☼
TV Pedestal	⊕
TV Tower	⊗
U/G TV Cable Hand Hole	□
Recorded U/G TV Cable	----- TV
Designated U/G TV Cable (S.U.E.*)	----- TV
Recorded U/G Fiber Optic Cable	----- TV FO
Designated U/G Fiber Optic Cable (S.U.E.*)	----- TV FO

**GAS:**

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

**SANITARY SEWER:**

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

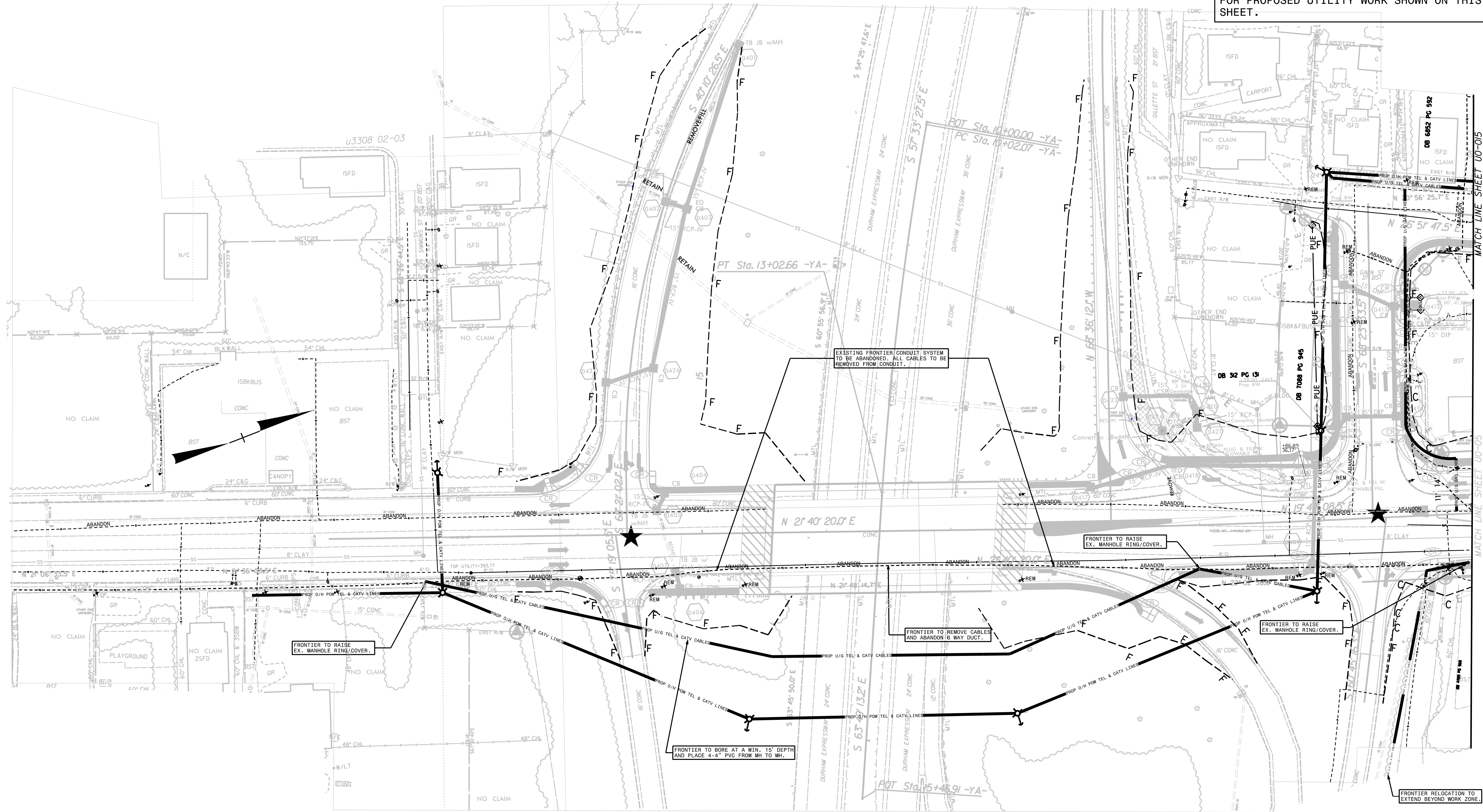
**MISCELLANEOUS:**

Utility Pole	●
Utility Pole with Base	□
Utility Located Object	○
Utility Traffic Signal Box	⊕
Utility Unknown U/G Line	----- U/UL
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	AATUR
End of Information	E.O.I.

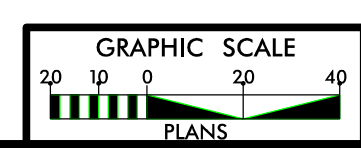
**UTILITY BY OTHERS**

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

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ALL UTILITY COMPANIES WILL CLEAR THEIR CONFLICTS BY THE DATE OF AVAILABILITY.



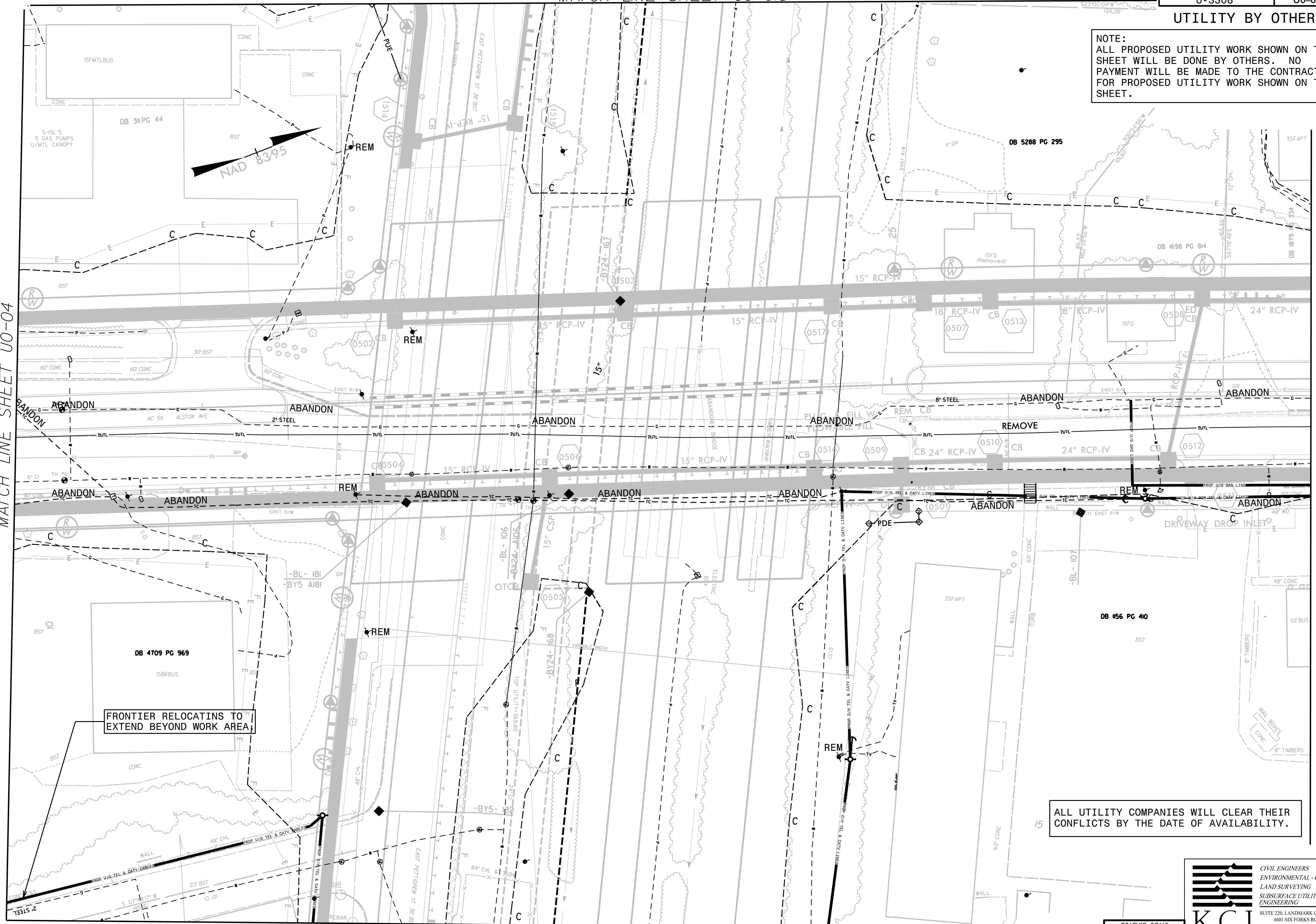
  
**CIVIL ENGINEERS**  
**ENVIRONMENTAL - CEI**  
**LAND SURVEYING**  
**SUBSURFACE UTILITY ENGINEERING**  
**KCI**  
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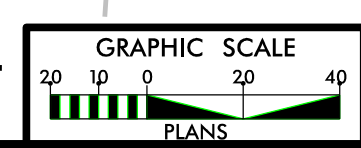
MATCH LINE SHEET U0-04

MATCH LINE SHEET U0-06



FRONTIER RELOCATES TO EXTEND BEYOND WORK AREA

ALL UTILITY COMPANIES WILL CLEAR THEIR CONFLICTS BY THE DATE OF AVAILABILITY.



KCI ASSOCIATES OF N.C. CIVIL ENGINEERS ENVIRONMENTAL - CEI LAND SURVEYING SUBSURFACE UTILITY ENGINEERING SUITE 220, LANDMARK CENTER II, 401 SIX FORKS ROAD RALEIGH, NORTH CAROLINA 27609 (919) 783-9214 WWW.KCI.COM

10:24:32 AM 290\_005\_U3308\_U0-05.dwg 8/17/99

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DUKE RELOCATIONS TO CONTINUE OUTSIDE OF PROJECT LIMITS.

-LALT- POT Sta. 31+51.44  
-Y1- POT Sta. 12+73.92  
-Y2- POT Sta. 10+16.56  
-LALT- POT Sta. 31+50.12

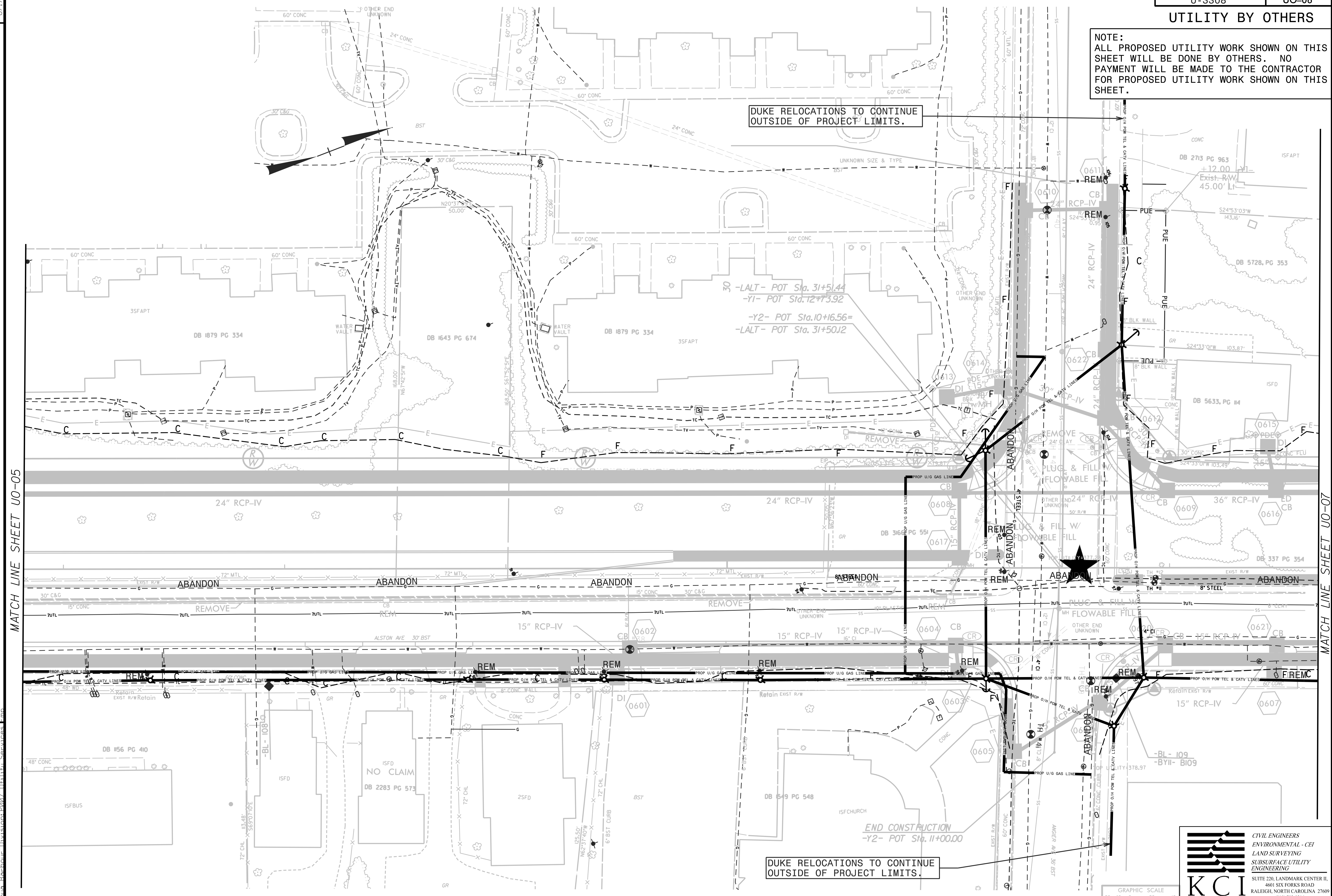
DUKE RELOCATIONS TO CONTINUE OUTSIDE OF PROJECT LIMITS.

END CONSTRUCTION  
-Y2- POT Sta. 11+00.00

MATCH LINE SHEET UO-05

MATCH LINE SHEET UO-07

8/17/99  
7:57:09 AM  
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Toshio Barbour - Division 2007 Utility Services



 GRAPHIC SCALE 20 10 0 10 20 40 FEET PLANS	 <b>KCI</b> ASSOCIATES OF N.C.	CIVIL ENGINEERS ENVIRONMENTAL - CEI LAND SURVEYING SUBSURFACE UTILITY ENGINEERING SUITE 220, LANDMARK CENTER II, 4601 SIX FORKS ROAD RALEIGH, NORTH CAROLINA 27609 (919) 783-9214 WWW.KCI.COM
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**UTILITY BY OTHERS**

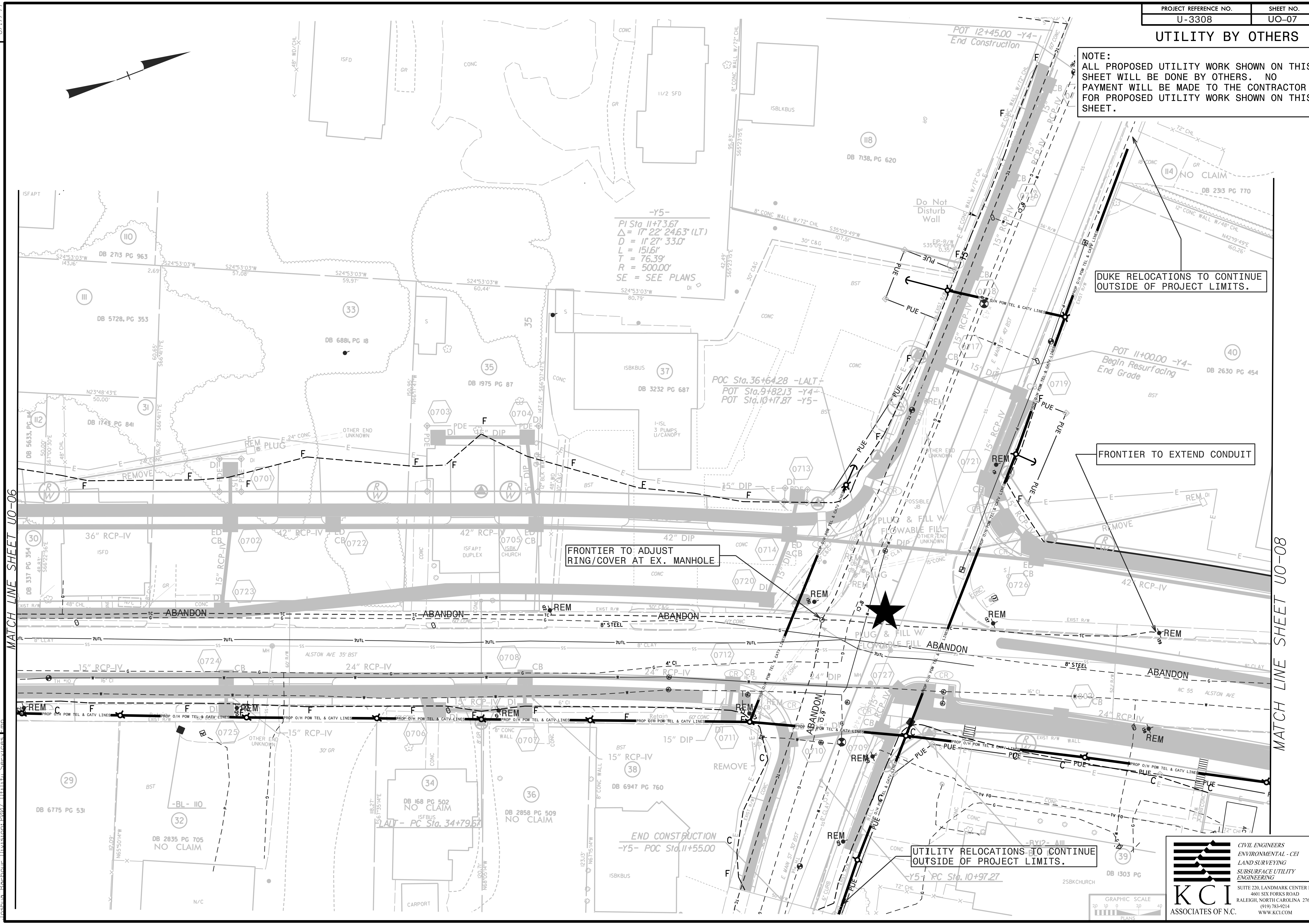
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FRONTIER TO EXTEND CONDUIT

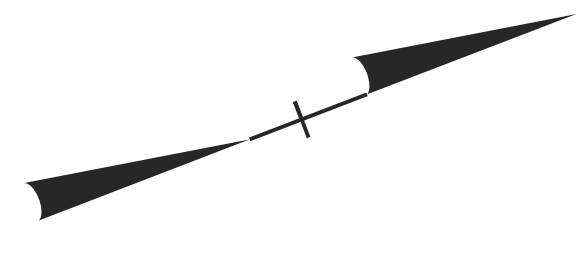
FRONTIER TO ADJUST RING/COVER AT EX. MANHOLE

UTILITY RELOCATIONS TO CONTINUE OUTSIDE OF PROJECT LIMITS.



MATCH LINE SHEET UO-06

MATCH LINE SHEET UO-08

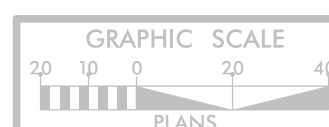


-Y5-  
PI Sta. 11+73.67  
 $\Delta = 17' 22'' 24.63'' (LT)$   
 $D = 11' 27'' 33.0''$   
 $L = 151.6'$   
 $T = 76.39'$   
 $R = 500.00'$   
SE = SEE PLANS

POC Sta. 36+64.28 -LALT-  
POT Sta. 9+82.13 -Y4-  
POT Sta. 10+17.87 -Y5-

END CONSTRUCTION  
-Y5- POC Sta. 11+55.00

UTILITY RELOCATIONS TO CONTINUE OUTSIDE OF PROJECT LIMITS.



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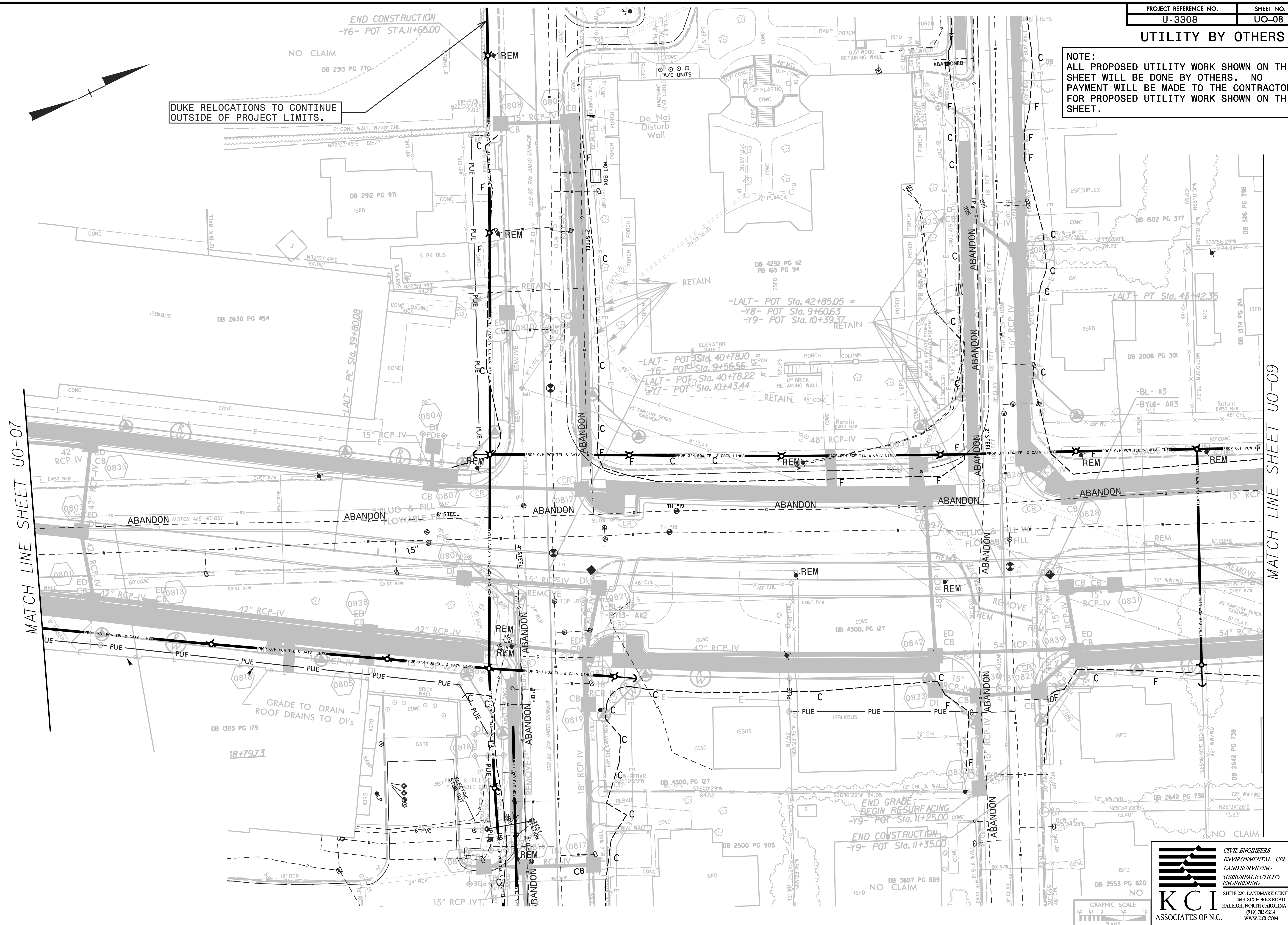
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12:41:24 PM 1/13/2008 ut\_rdy7\_11007\_esh-dgn  
2:58:10 PM 1/13/2008 ut\_rdy7\_11007\_esh-dgn  
Tosha Barber, Division P007, 11/11/11

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DUKE RELOCATIONS TO CONTINUE OUTSIDE OF PROJECT LIMITS.

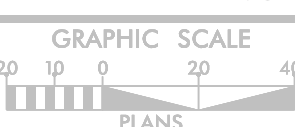
MATCH LINE SHEET UO-07

MATCH LINE SHEET UO-09

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7/27/06 AY 13308 ut.r.d.8.UO08.psh.dgn  
Tosha Barber, Division 2007, Hitt, Services, Inc.  
8/17/99



UTILITY BY OTHERS

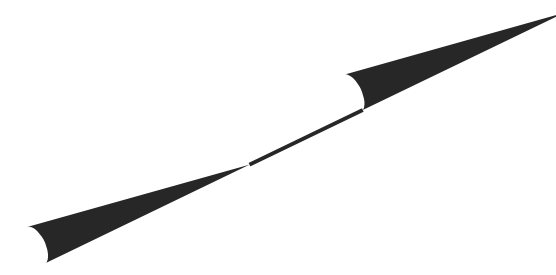
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MATCH LINE SHEET UO-020

MATCH LINE SHEET UO-022

MATCH LINE SHEET UO-08

MATCH LINE SHEET UO-010



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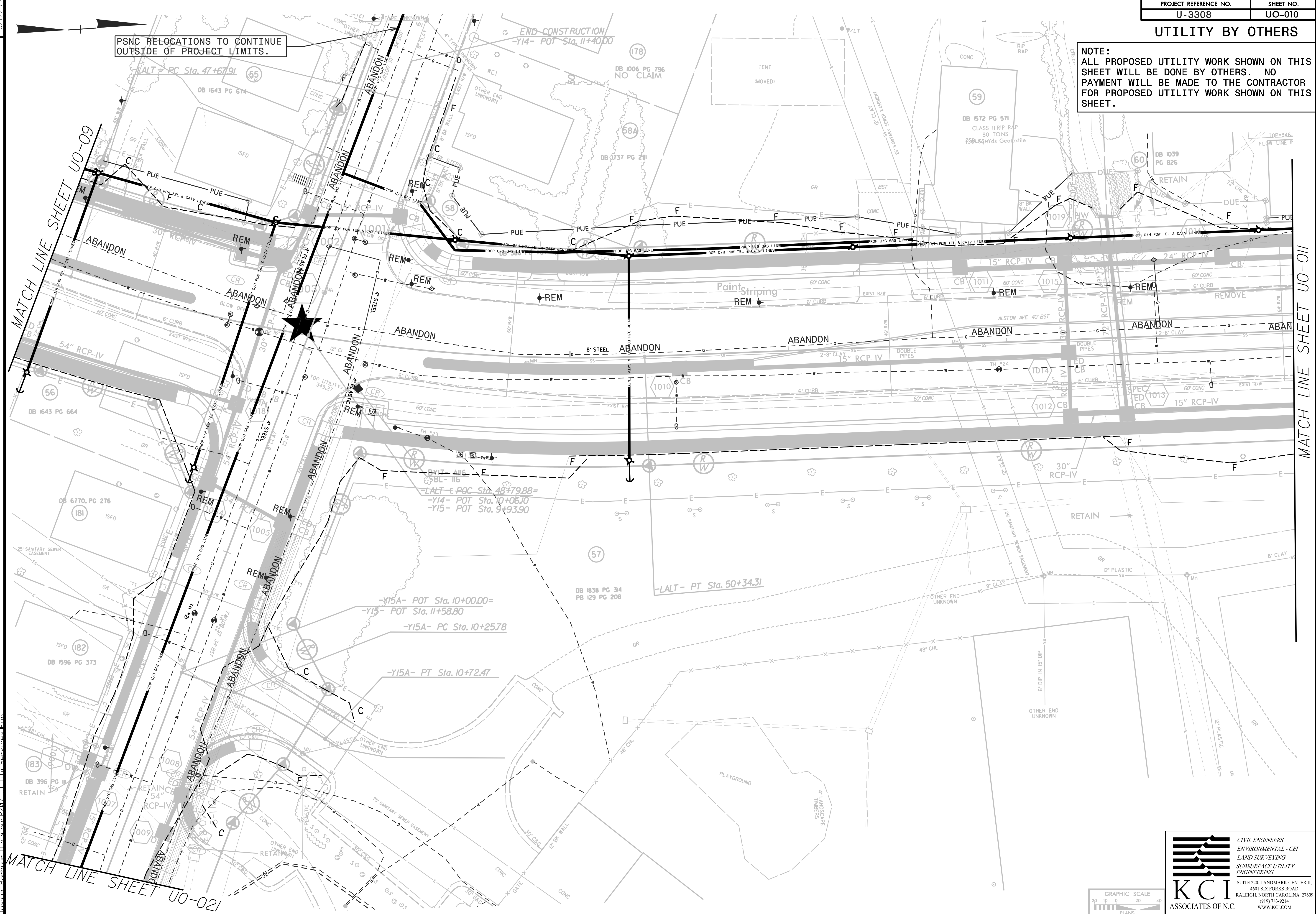
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 8/20/08 AV 13308 ut\_r.dwg U009 psh.dgn  
 Joshua Barber, Division Chief, Utility Services E&P

UTILITY BY OTHERS

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PSNC RELOCATIONS TO CONTINUE OUTSIDE OF PROJECT LIMITS.



MATCH LINE SHEET UO-09

MATCH LINE SHEET UO-021

MATCH LINE SHEET UO-011

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Tosha Borbar-Division 2007-11-11-11 Services Emp

GRAPHIC SCALE  
20 10 0 20 40  
PLANS  
KCI ASSOCIATES OF N.C.  
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DUKE RELOCATIONS TO CONTINUE OUTSIDE OF PROJECT LIMITS.

DUKE RELOCATIONS TO CONTINUE OUTSIDE OF PROJECT LIMITS.

8/17/99



MATCH LINE SHEET UO-010

MATCH LINE SHEET UO-012

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Tosha Barber, Division 2007, Utility Services Emp

GRAPHIC SCALE  
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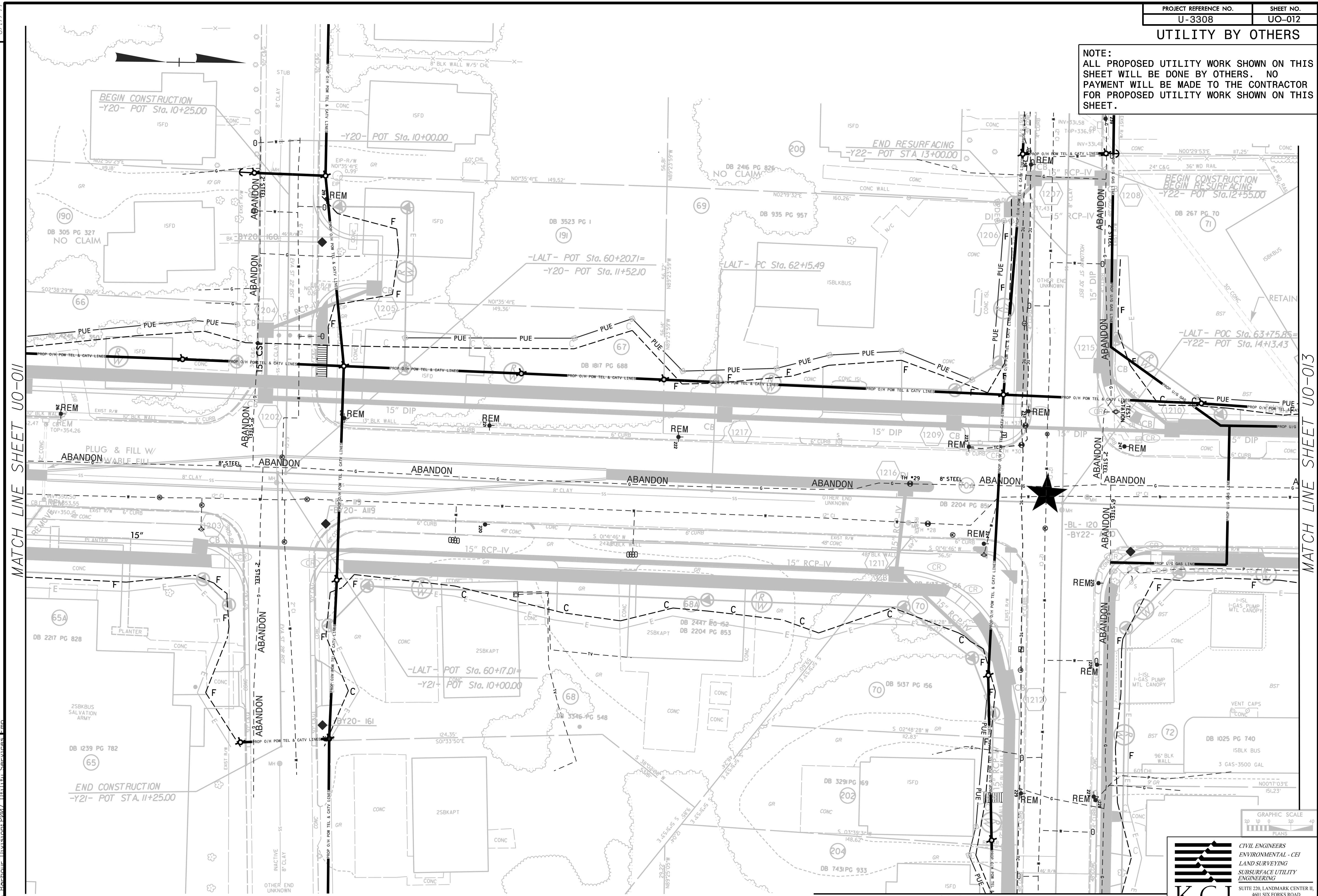
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REGISTERED CIVIL ENGINEERS  
ENVIRONMENTAL - CEI  
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SUBSURFACE UTILITY  
ENGINEERING

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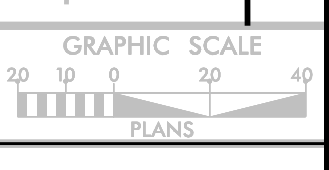


MATCH LINE SHEET UO-011

MATCH LINE SHEET UO-013

MATCH LINE SHEET UO-024

8/17/99  
955-18 AM U-3308 ut\_rdu12\_U0012\_rph-dgn  
955-012 U-3308 ut\_rdu12\_U0012\_rph-dgn  
Tosha Bohar, Division 2007, Utilities Services, Fmp



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BEGIN CONSTRUCTION  
-Y20- POT Sta. 10+25.00

END RESURFACING  
-Y22- POT STA 13+00.00

BEGIN CONSTRUCTION  
BEGIN RESURFACING  
-Y22- POT Sta. 12+55.00

END CONSTRUCTION  
-Y21- POT STA. 11+25.00

-LALT- POT Sta. 60+20.71=  
-Y20- POT Sta. 11+52.10

-LALT- PC Sta. 62+15.49

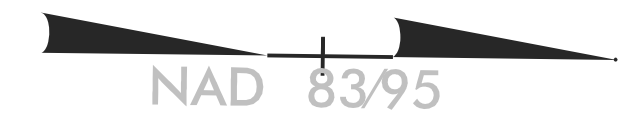
-LALT- POC Sta. 63+75.85=  
-Y22- POT Sta. 14+13.43

-LALT- POT Sta. 60+17.01=  
-Y21- POT Sta. 10+00.00

UTILITY BY OTHERS

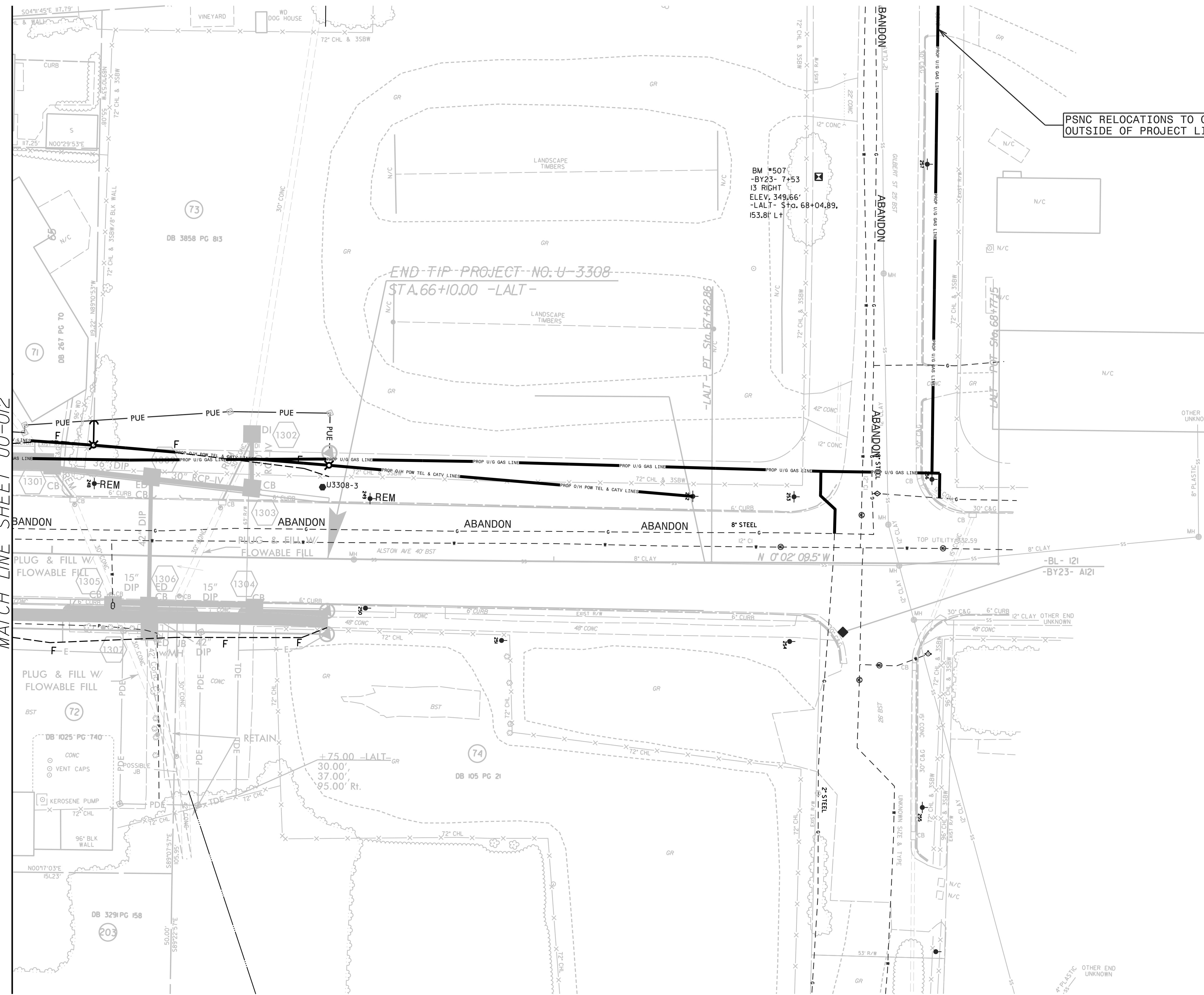
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PSNC RELOCATIONS TO CONTINUE OUTSIDE OF PROJECT LIMITS.



MATCH LINE SHEET UO-012

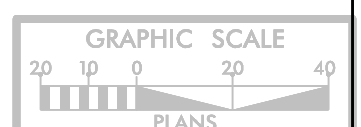
8/17/99  
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Tosha Bohar, Division 2007, Title: Civil Services Emp



END-TIP-PROJECT-NO: U-3308  
STA. 66+10.00 -LALT-

BM #507  
-BY23- 7+53  
13 RIGHT  
ELEV. 349.66'  
-LALT- Sta. 68+04.89,  
153.8' Lt

-BL- 121  
-BY23- A121



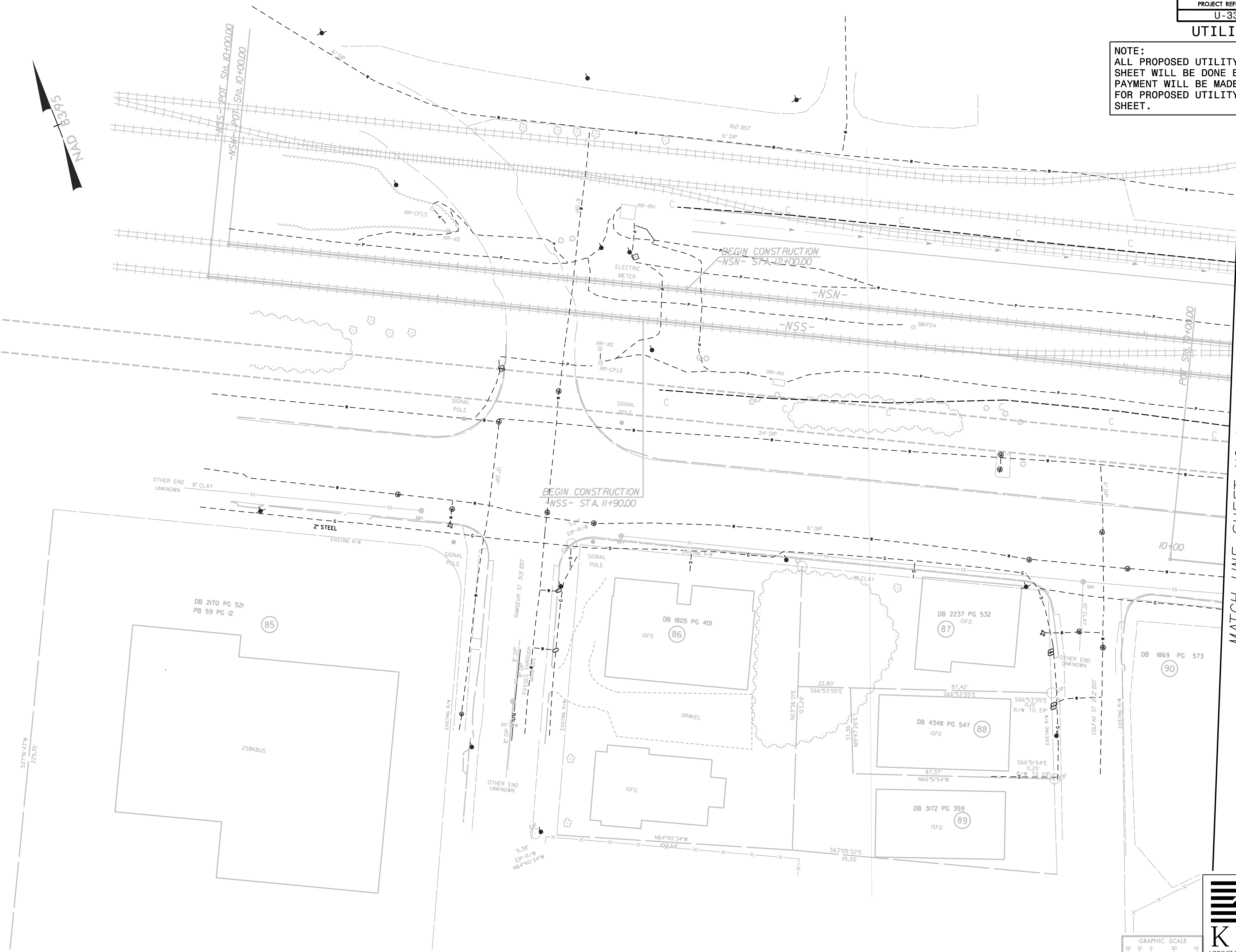
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ENGINEERING

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UTILITY BY OTHERS

NOTE:  
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MATCH LINE SHEET UO-015

8/17/99  
 9:45:53 AM  
 2006/01/14 U3308\_ut\_rdu14\_UD014\_psh-dgn  
 Tashae Bohour, David Boer, 2007, Utility Services, Inc.

GRAPHIC SCALE  
 20 10 0 20 40  
 FEET  
 PLANS

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 ASSOCIATES OF N.C.

CIVIL ENGINEERS  
 ENVIRONMENTAL - CEI  
 LAND SURVEYING  
 SUBSURFACE UTILITY  
 ENGINEERING

SUITE 220, LANDMARK CENTER II,  
 401 SIX FORKS ROAD  
 RALEIGH, NORTH CAROLINA 27609  
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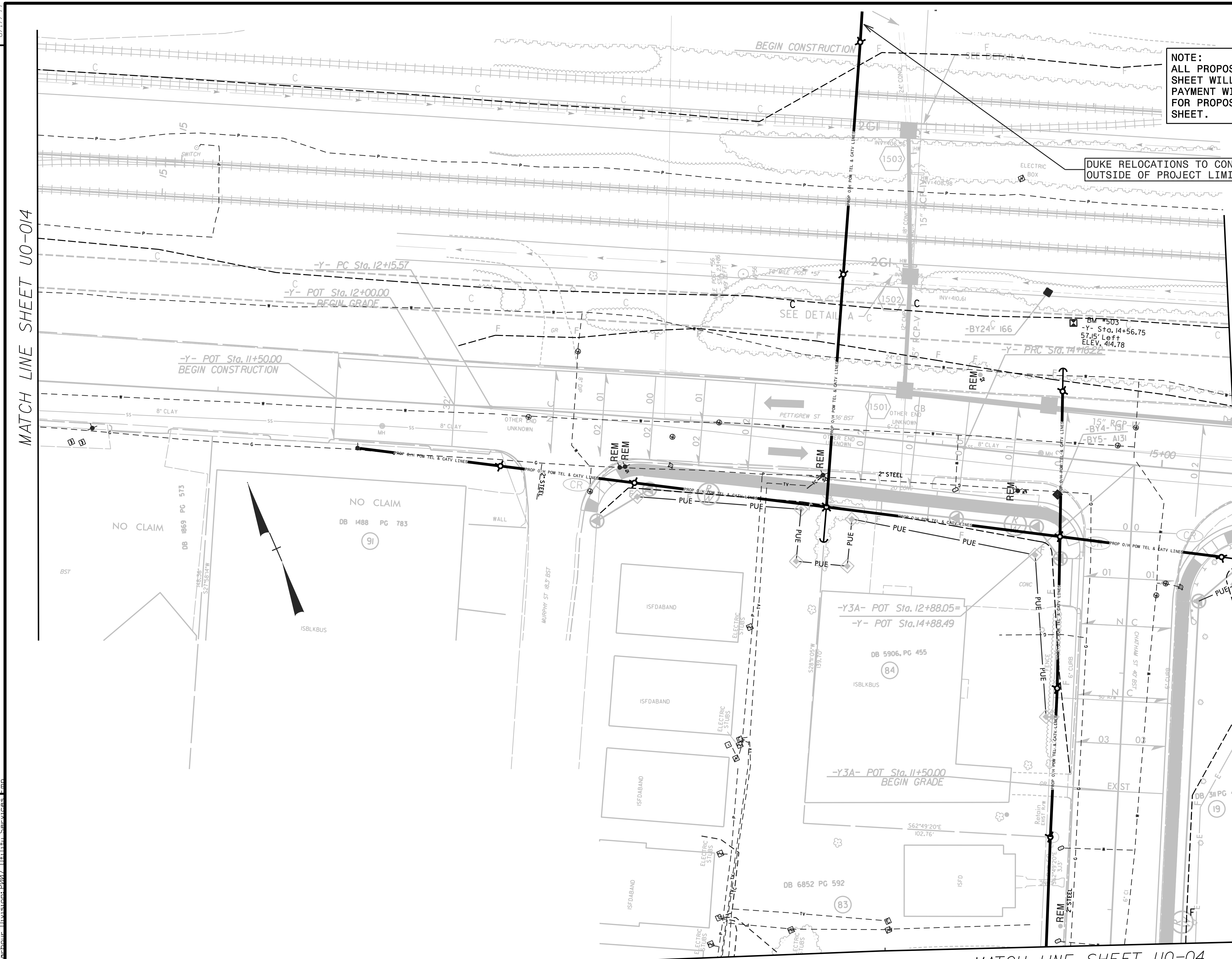
UTILITY BY OTHERS

NOTE:  
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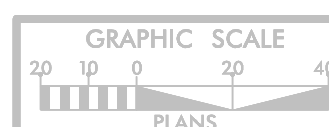
DUKE RELOCATIONS TO CONTINUE OUTSIDE OF PROJECT LIMITS.

MATCH LINE SHEET UO-014

MATCH LINE SHEET UO-05



MATCH LINE SHEET UO-04



CIVIL ENGINEERS  
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8/17/99  
2/4/16 AM U-3308 ut\_rduj15\_U0015\_rsh-dgn  
Tosha Bohar, Division Chief, Utility Services, E&P

UTILITY BY OTHERS

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

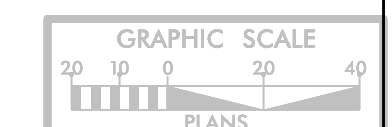
8/17/99

MATCH LINE SHEET UO-05

MATCH LINE SHEET UO-07



10/4/03 AM 11:33:08 ut\_rdu16\_U0016\_rsh-dgn  
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 Joshua Bohrer, Division 2007, Utilities Services Emp




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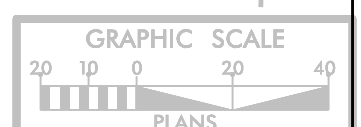
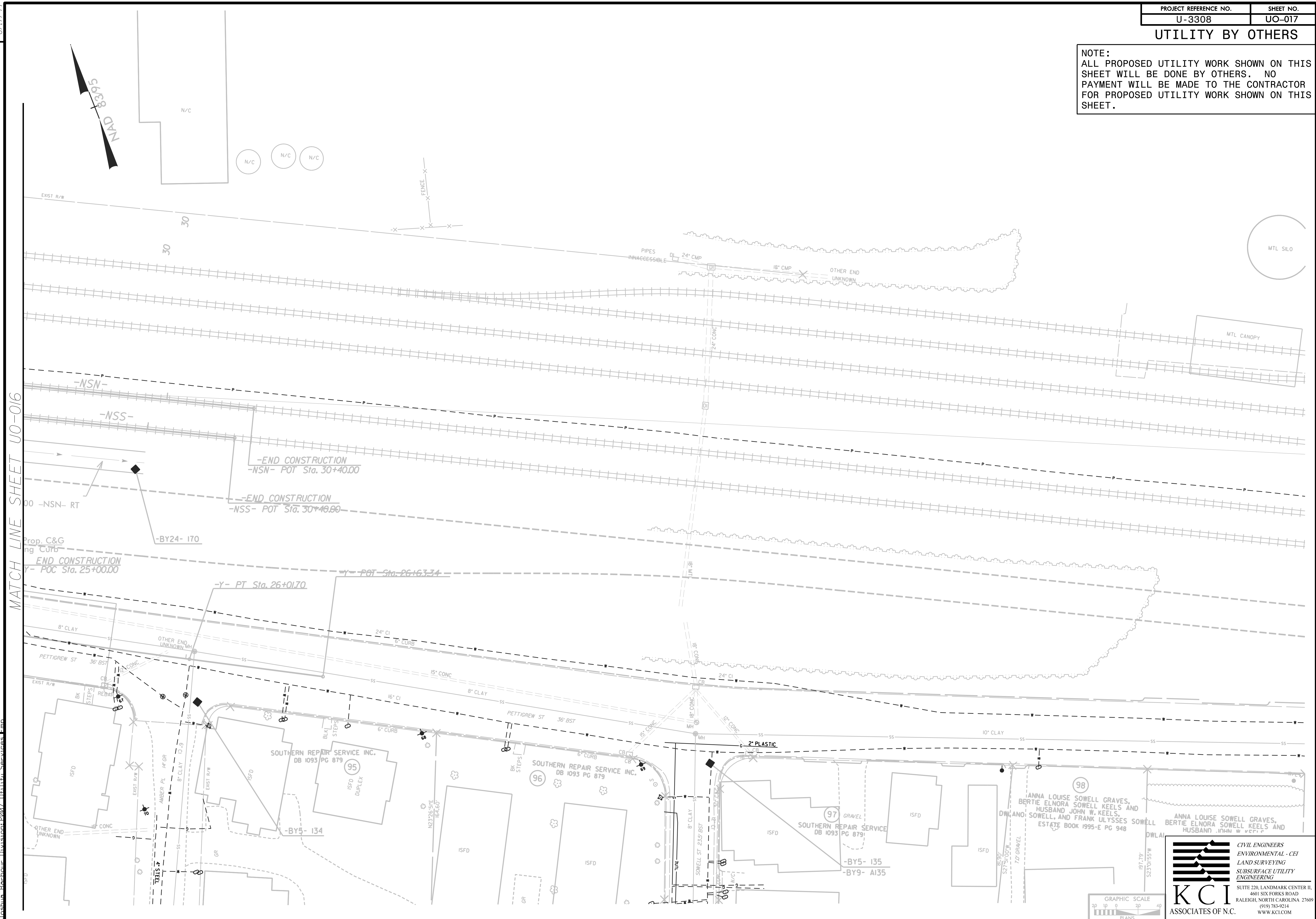
UTILITY BY OTHERS

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8/17/99

MATCH LINE SHEET UO-016

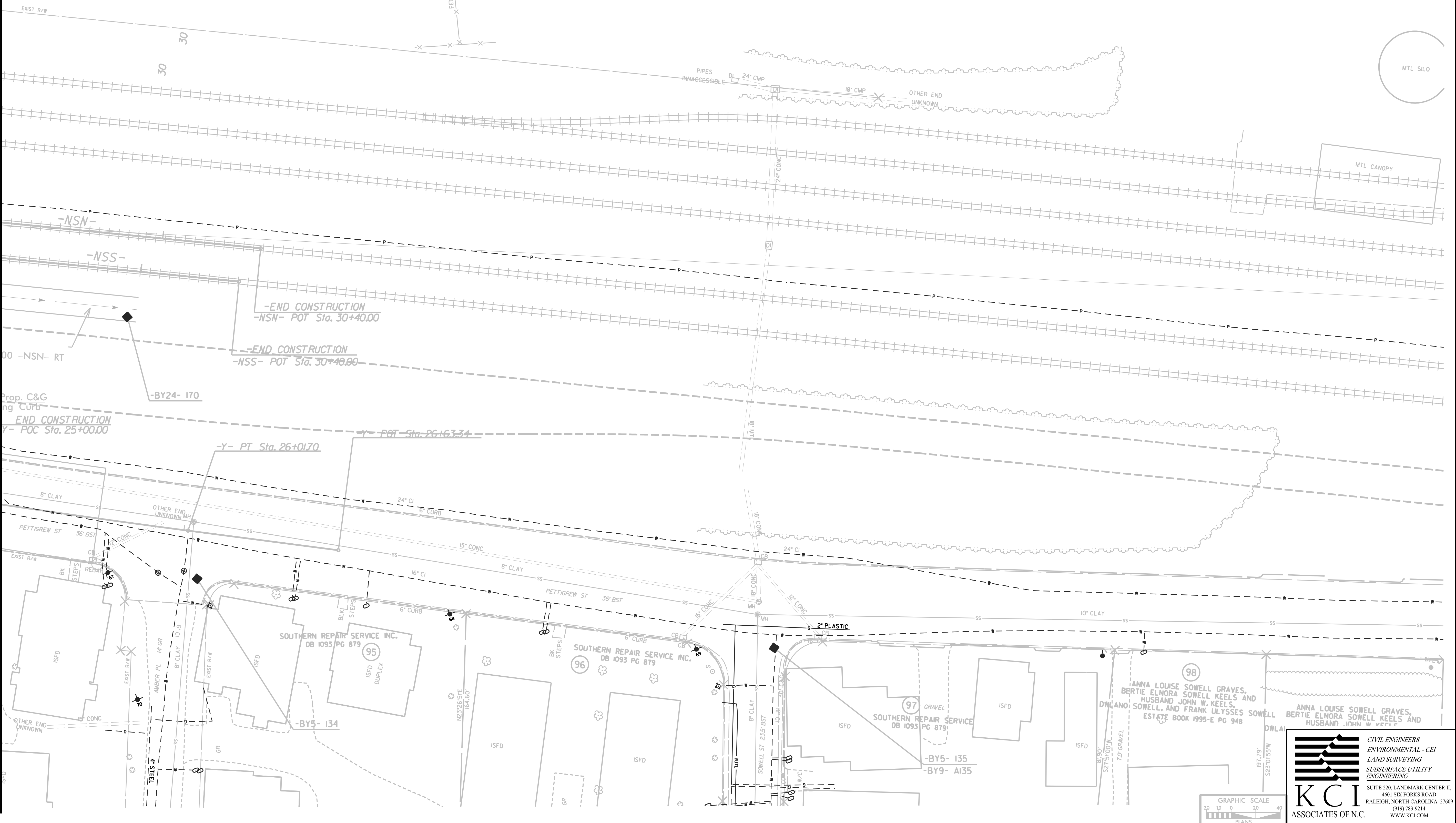
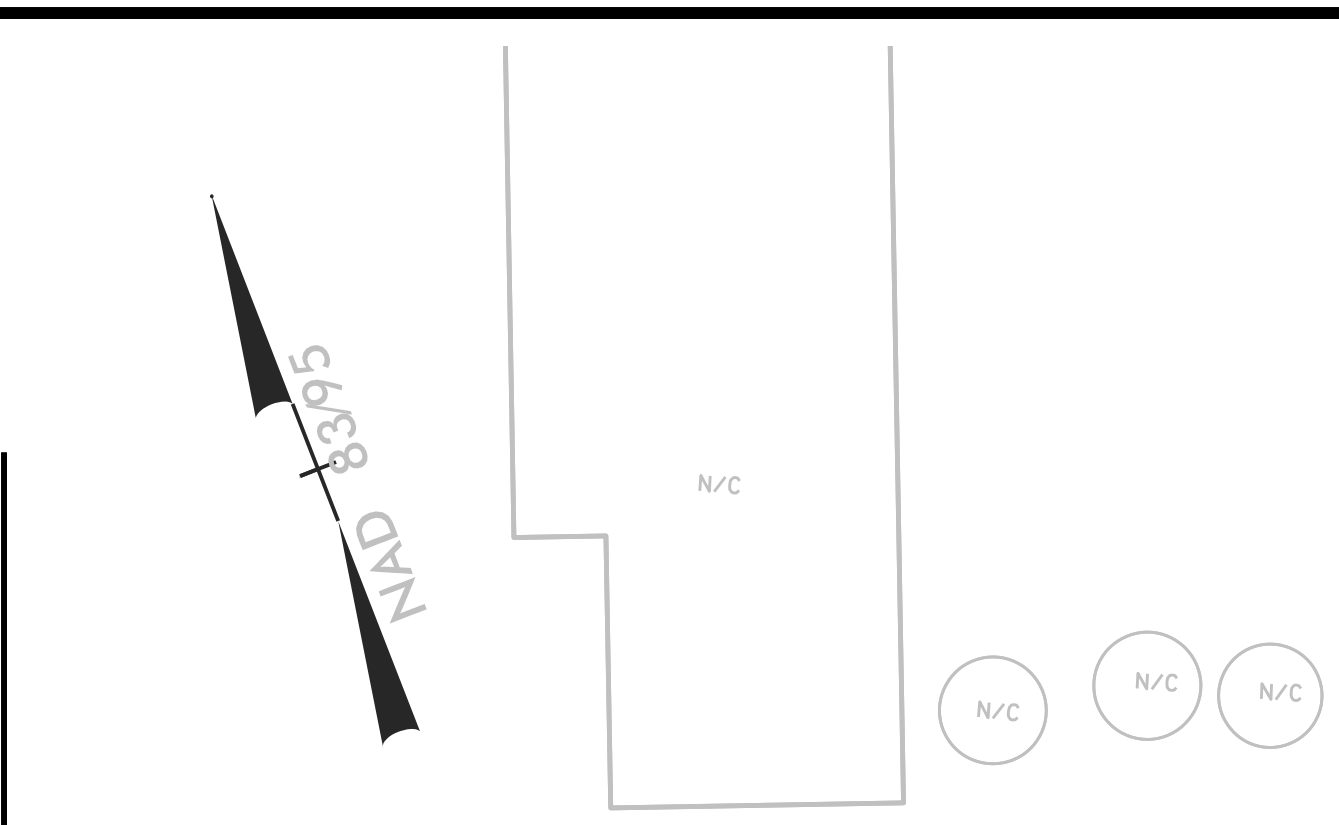
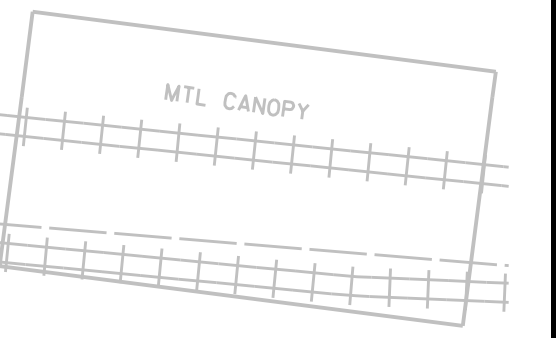
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 Joshua Barber, Division Chief, Utility Services Dept



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 ENGINEERING

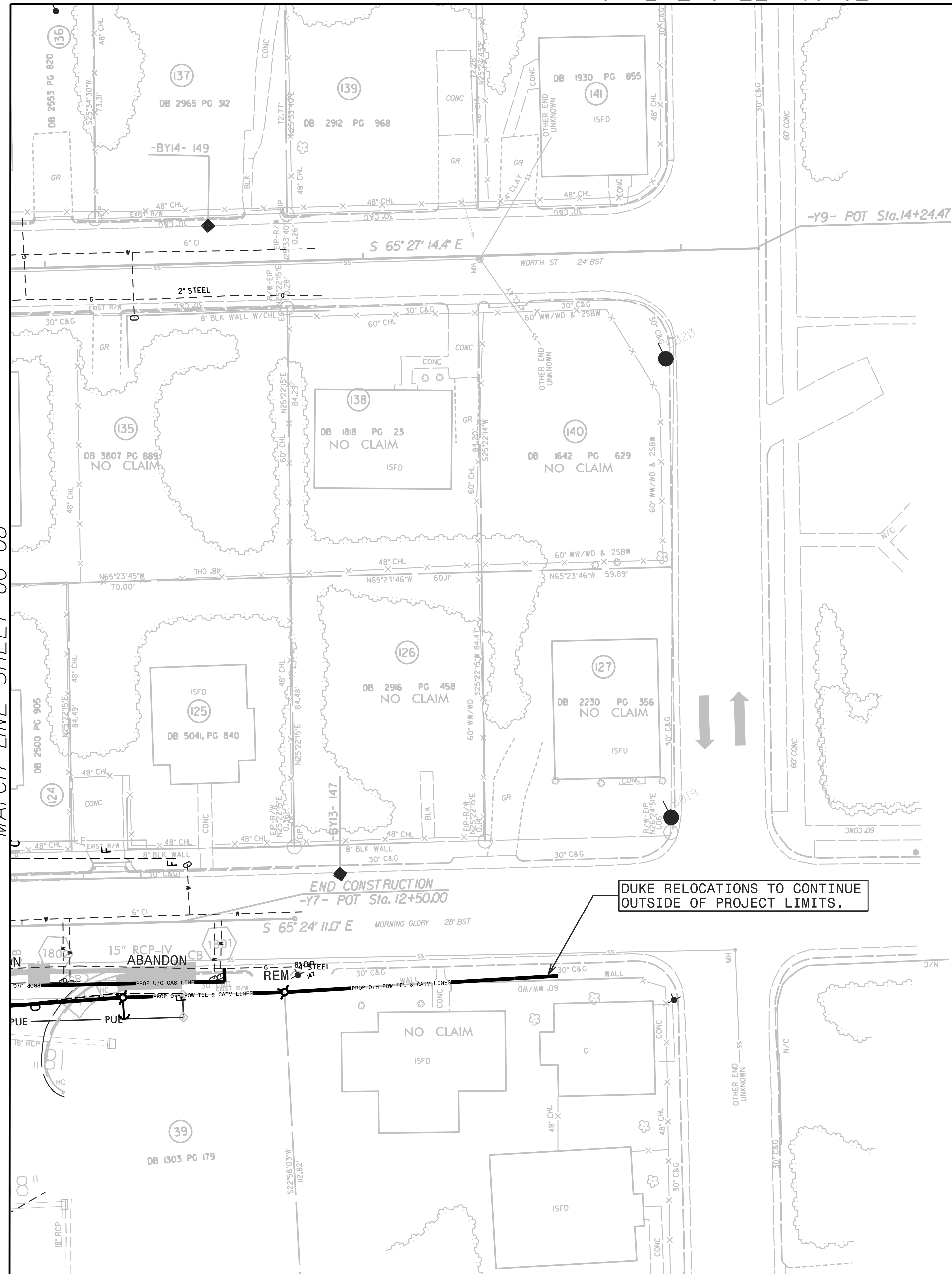
SUITE 220, LANDMARK CENTER II,  
 4601 SIX FORKS ROAD  
 RALEIGH, NORTH CAROLINA 27609  
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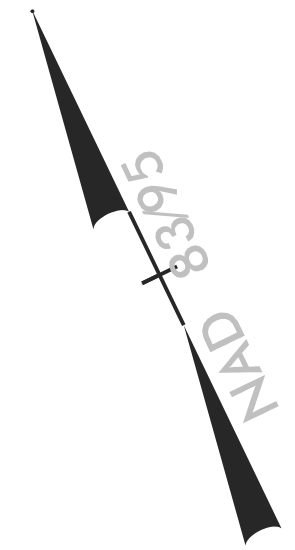
UTILITY BY OTHERS

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MATCH LINE SHEET UO-08



DUKE RELOCATIONS TO CONTINUE OUTSIDE OF PROJECT LIMITS.



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8/17/99  
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 U:\3308 ut\_rdu18\_UO018\_rsh-dgn  
 9/30/08  
 Joshua Rotherham Division 2007 Utility Services E.m.p

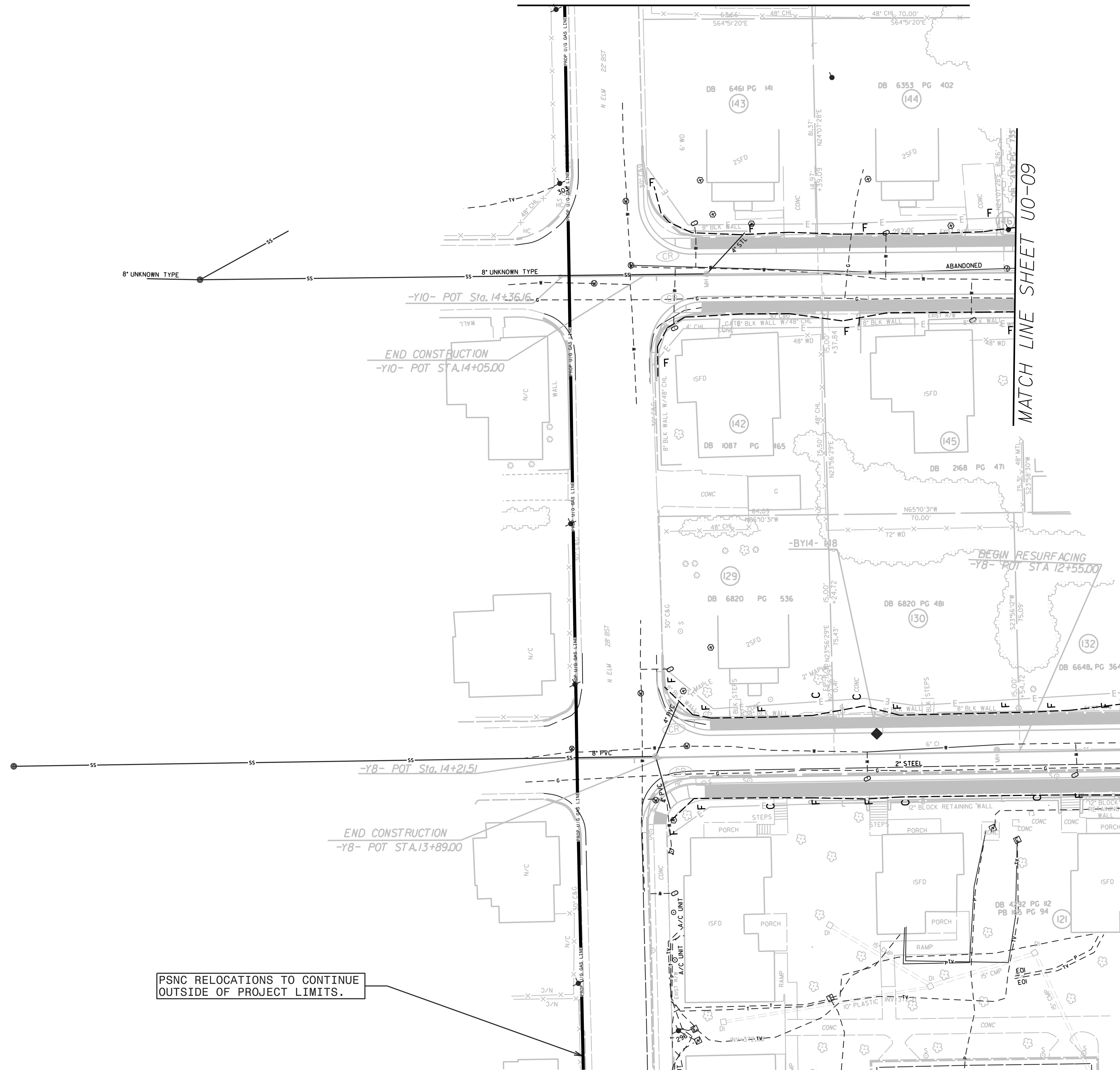
UTILITY BY OTHERS

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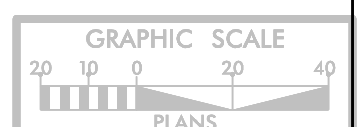
MATCH LINE SHEET U0-022

MATCH LINE SHEET U0-09

MATCH LINE SHEET U0-08



PSNC RELOCATIONS TO CONTINUE OUTSIDE OF PROJECT LIMITS.

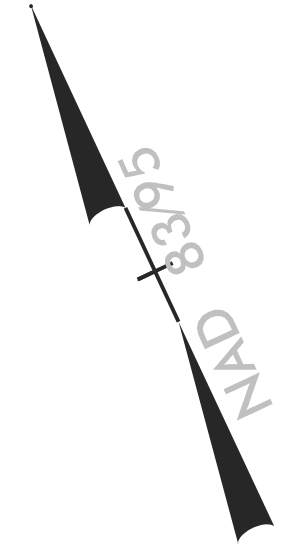


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 ENVIRONMENTAL - CEI  
 LAND SURVEYING  
 SUBSURFACE UTILITY ENGINEERING

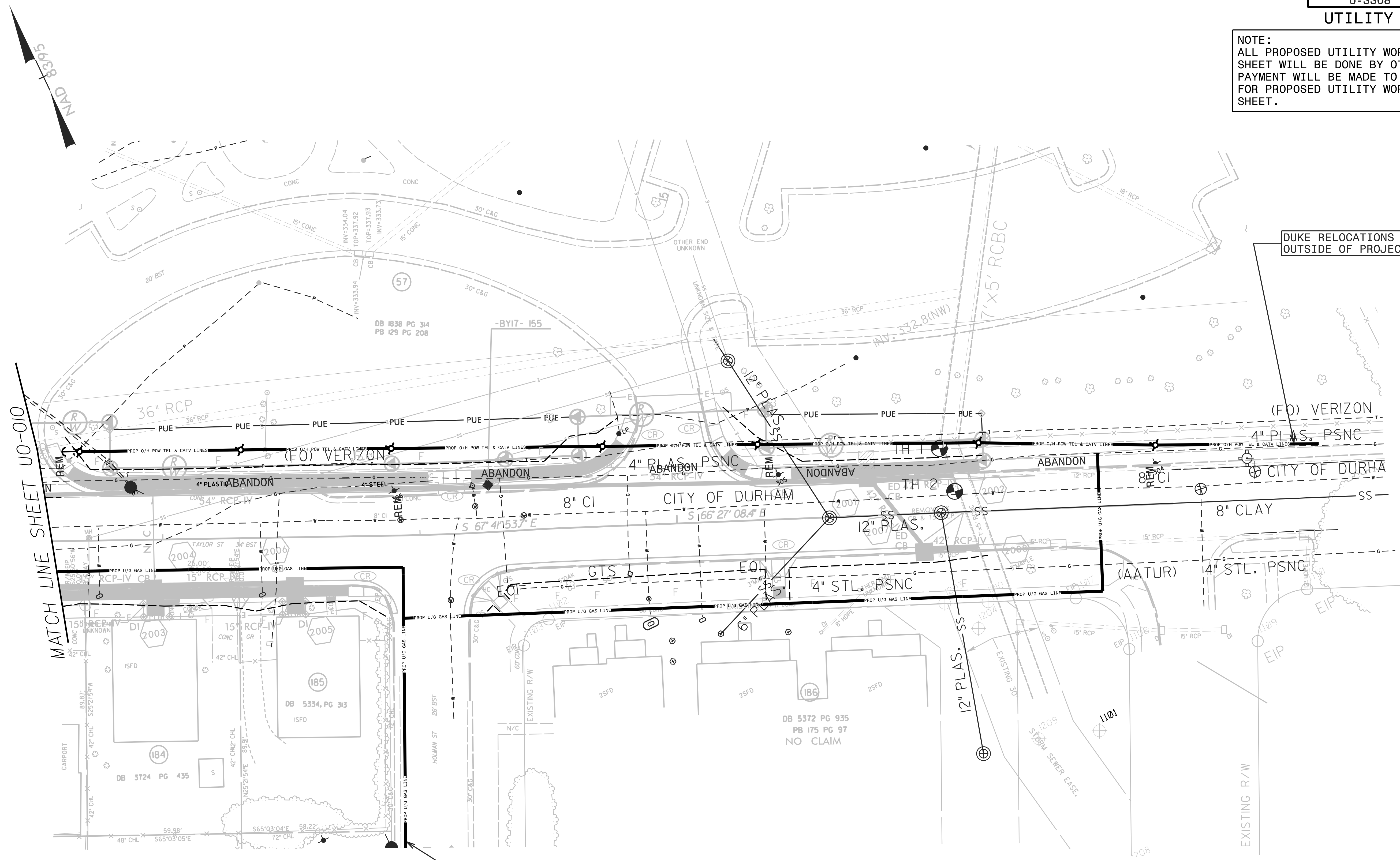
SUITE 220, LANDMARK CENTER II,  
 4601 SIX FORKS ROAD  
 RALEIGH, NORTH CAROLINA 27609  
 (919) 783-9214  
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8/17/99  
 10:53:08 AM  
 9:00:00 AM  
 U:\3308\_ut\_rcd\19\_U0019\_rsh.dgn  
 Joshua R. Bohrer, Division Chief, Utility Services, EPM



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MATCH LINE SHEET UO-010

PSNC RELOCATIONS TO CONTINUE OUTSIDE OF PROJECT LIMITS.

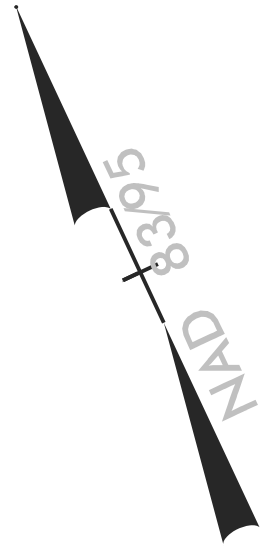
DUKE RELOCATIONS TO CONTINUE OUTSIDE OF PROJECT LIMITS.

8/17/99  
 UO-020-AM  
 1/3/08 ut\_r.dwg  
 10/20/07  
 Tashir, Barbara  
 Division  
 10/20/07  
 Tashir, Barbara  
 Division  
 10/20/07  
 Tashir, Barbara  
 Division

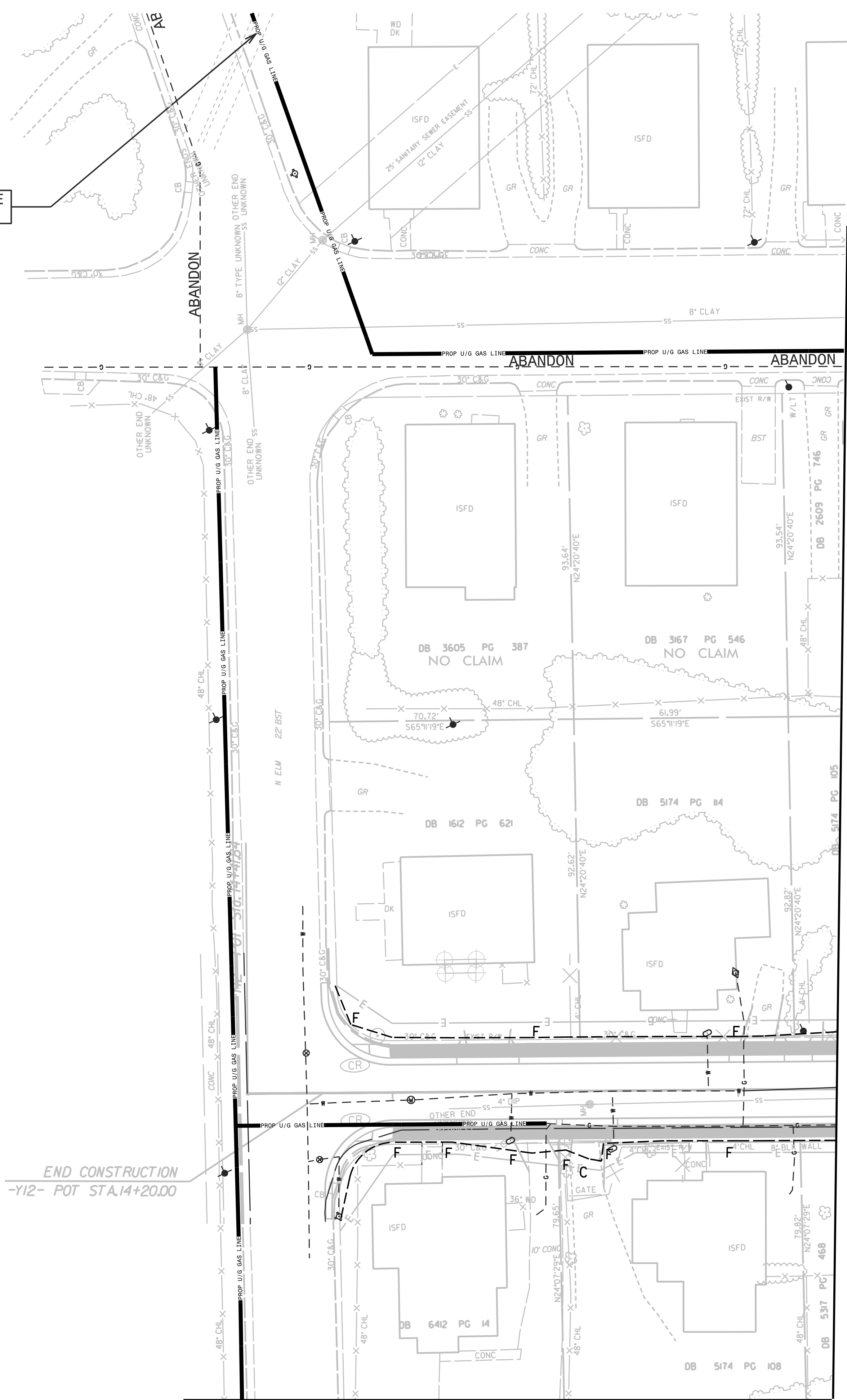
UTILITY BY OTHERS

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8/17/99



PSNC RELOCATIONS TO CONTINUE OUTSIDE OF PROJECT LIMITS.



MATCH LINE SHEET UO-09

MATCH LINE SHEET UO-020

8/30/02 AM 11:33:08 ut\_rdu21\_u0021\_rsh-dgn  
 Tosha Bohar, Division 2007, Utility Services Emp

GRAPHIC SCALE  
 20 10 0 20 40  
 FEET  
 PLANS

CIVIL ENGINEERS  
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8/17/99  
10:32:05 AM U:\3308 ut.rd\22 U0022 psh.dgn  
Joshua Barber, Division 2007, Planning Services, Inc.

PSNC RELOCATIONS TO CONTINUE  
OUTSIDE OF PROJECT LIMITS.

DUKE RELOCATIONS TO CONTINUE  
OUTSIDE OF PROJECT LIMITS.

PSNC RELOCATIONS TO CONTINUE  
OUTSIDE OF PROJECT LIMITS.

NAD 83/95

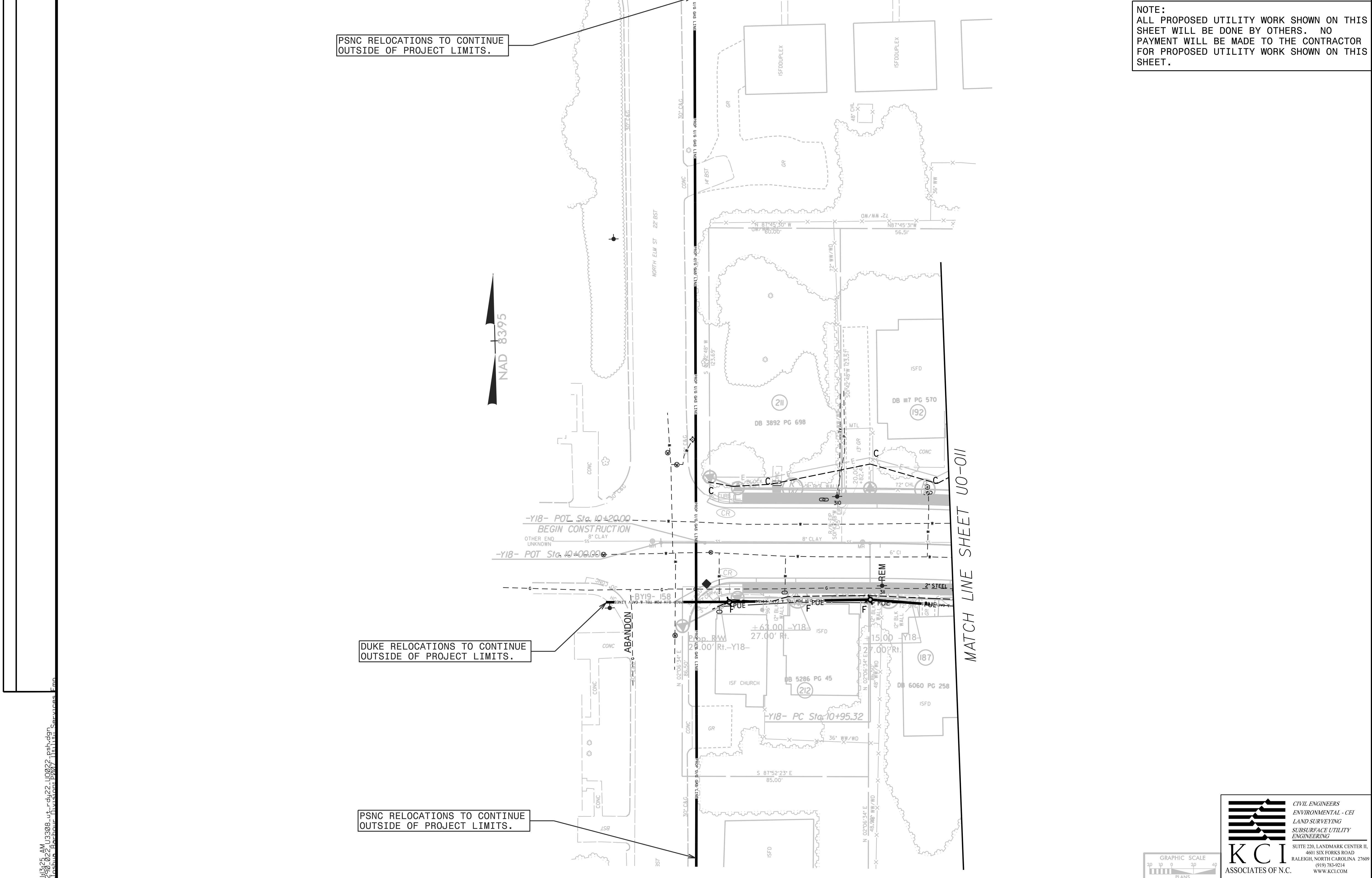
-Y18- POT Sta. 10+20.00  
BEGIN CONSTRUCTION  
OTHER END UNKNOWN  
8" CLAY

-Y18- POT Sta. 10+09.00

MATCH LINE SHEET UO-011



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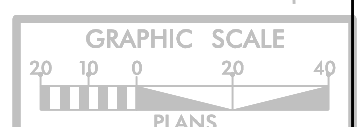
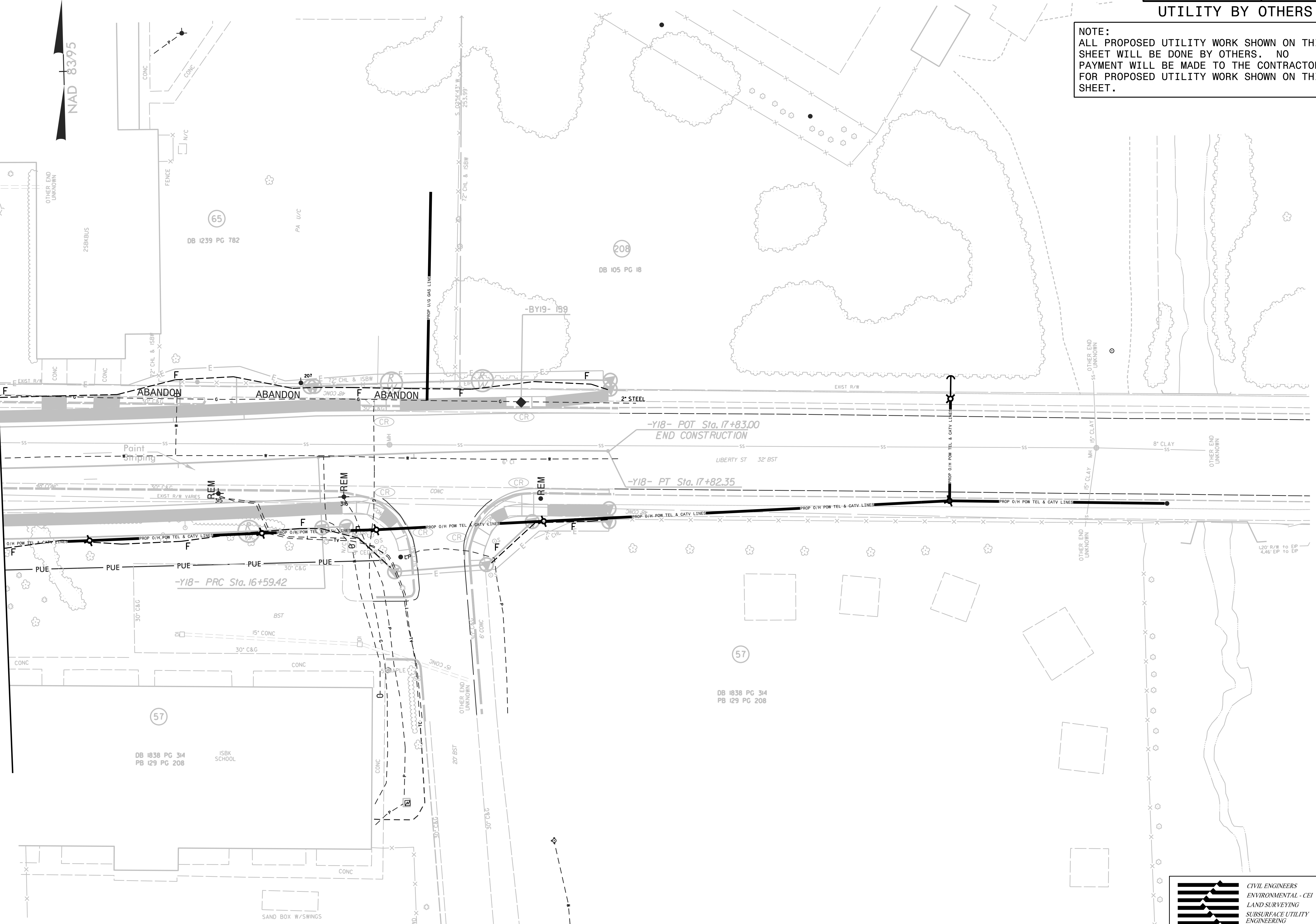
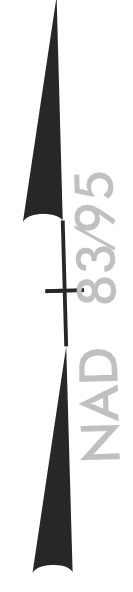


**UTILITY BY OTHERS**

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8/17/99

MATCH LINE SHEET UO-011



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 ENVIRONMENTAL - CEI  
 LAND SURVEYING  
 SUBSURFACE UTILITY  
 ENGINEERING

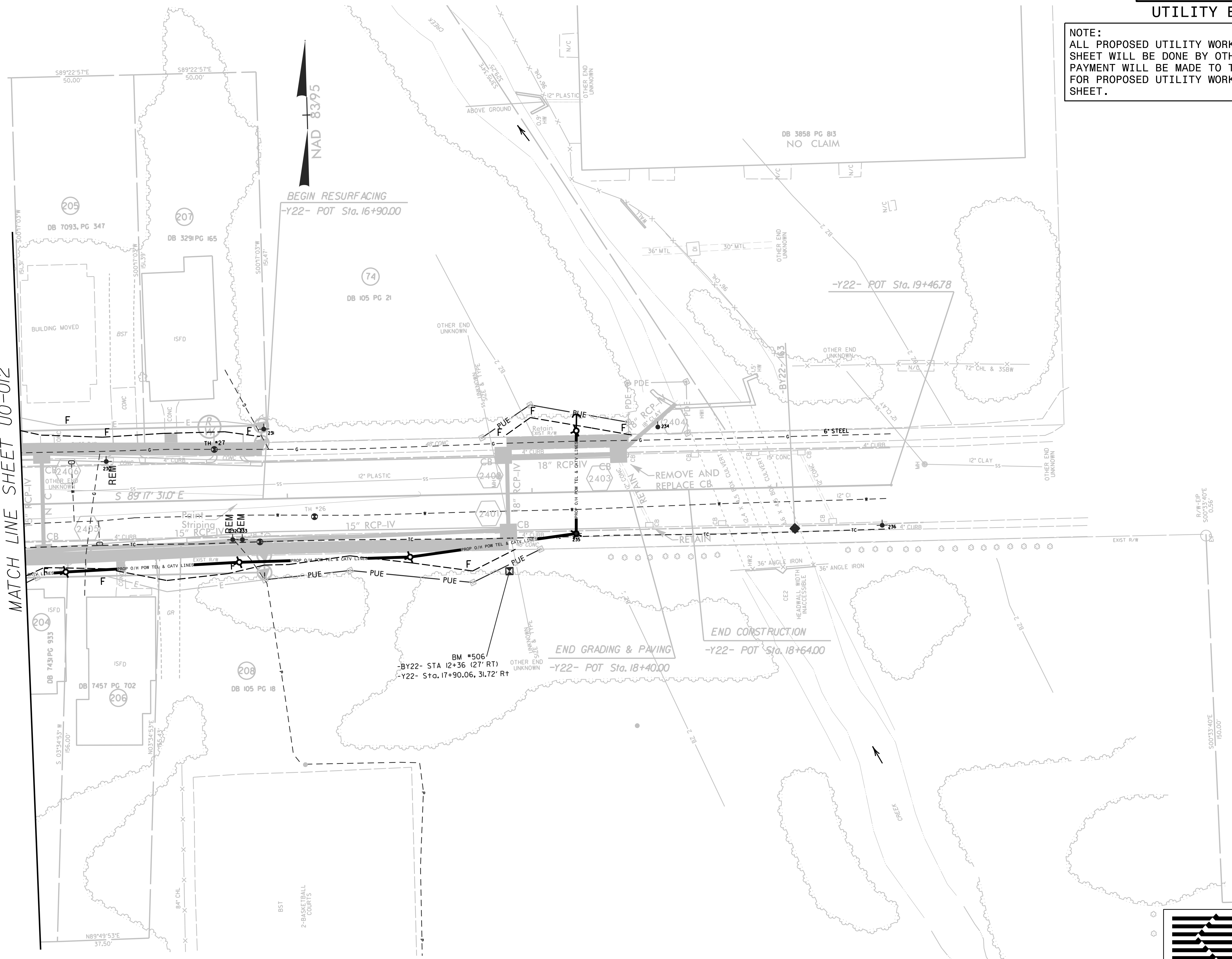
SUITE 220, LANDMARK CENTER II,  
 4601 SIX FORKS ROAD  
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11:58:52 AM  
 1/3/08 ut\_r.dwg 11/02/23 psh.dgn  
 Joshua Barber, Division 2007, Planning Services, Emp

**UTILITY BY OTHERS**

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MATCH LINE SHEET UO-012



8/17/99  
 U-3308 ut\_r.dwg 24\_U0024\_psh.dwg  
 10/10/02  
 Tosha Barber, Division 2007, Planning Services, Inc.