

**This electronic collection of documents is provided
for the convenience of the user
and is Not a Certified Document –**

**The documents contained herein were originally issued
and sealed by the individuals whose names and license
numbers appear on each page, on the dates appearing
with their signature on that page.**

**This file or an individual page
shall not be considered a certified document.**

CONTRACT: W-5206AG
 TIP PROJECT: W-5206AG
 SHEET NO. UO-1
 STATE OF NORTH CAROLINA
 DIVISION OF HIGHWAYS
 UTILITIES BY OTHERS
 HARNETT COUNTY
 LOCATION: CAMPBELL UNIVERSITY PEDESTRIAN TUNNEL UNDER US 421/NC 27 IN BUIES CREEK
 TYPE OF WORK: AERIAL AND BURIED UTILITIES
 UO-3
 -L- POC Sta. 28+32.19 =
 -CULVERT- POT Sta. 14+85.31
 END TIP PROJECT W-5206AG
 POT STA. -L- 34+65.71
 BEGIN TIP PROJECT W-5206AG
 POT STA. -L- 23+12.00
 GRAPHIC SCALES
 40 20 0 40 80
 PLANS
 INDEX OF SHEETS
 SHEET NO. DESCRIPTION
 UO-01 TITLE SHEET
 UO-02 INDEX
 UO-03 UTILITIES BY OTHERS
 UC-04 6" WATERLINE PLAN & PROFILE (CAMPBELL)
 UC-05 GRAVITY SEWER PLAN & PROFILE (CAMPBELL)
 UTILITY OWNERS ON PROJECT
 (1) POWER - DUKE ENERGY, JB JONES (910)-206-1966
 (2) COMMUNICATIONS - CAMPBELL UNIVERSITY, EARL SAVAGE (910)-893-1610
 (3) TELEPHONE - CENTURYLINK, KEVIN GODWIN (910)-366-2142
 (4) 6" WATER & SEWER - CAMPBELL UNIVERSITY, SCOT PHILLIPS (910)-893-1610
 (5) 12" & 20" WATER - HARNETT COUNTY, SHANE CUMMINGS (910)-893-7575 X3275
 (6) CABLE - TIME WARNER CABLE, JACK CRABB (910)-401-5034
 (7) CABLE - CHARTER, DARREN MCCLUNG (910)-813-1618
 (8) GAS - PIEDMONT NATURAL GAS (PNG), JIMMIE WOOD (919)-705-5054
 PLANS PREPARED BY:
 CH ENGINEERING
 3220 GLEN ROYAL RD. RALEIGH, NC 27617
 TELE 919.788.0224 FAX 919.788.0232
 NC LICENSE #P-0189
 UTILITIES PROJECT ENGINEER
 Eric M. Tweed, P.E.
 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

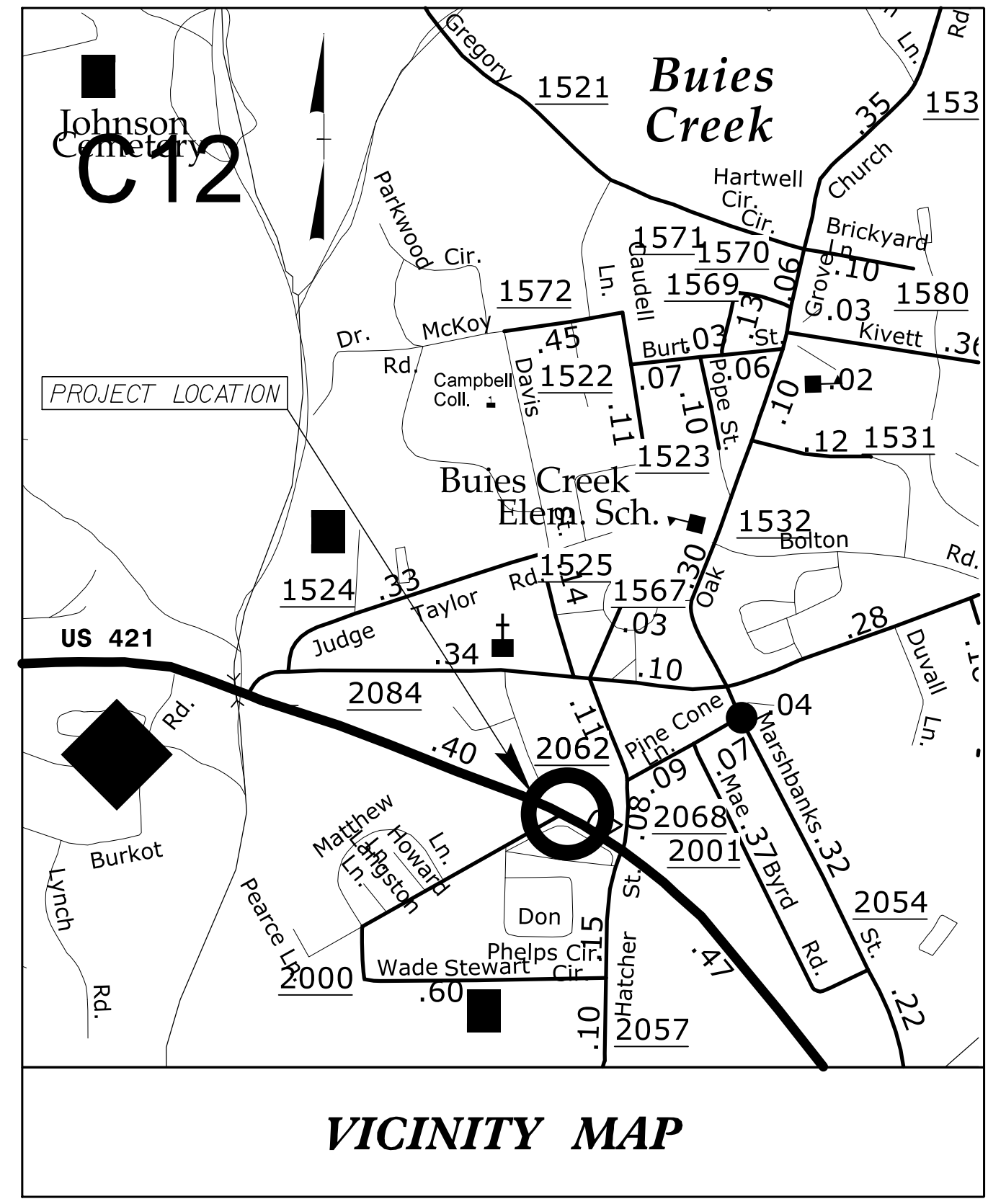
STATE OF NORTH CAROLINA
DIVISION OF HIGHWAYS

T.I.P. NO.	SHEET NO.
W-5206AG	UO-1

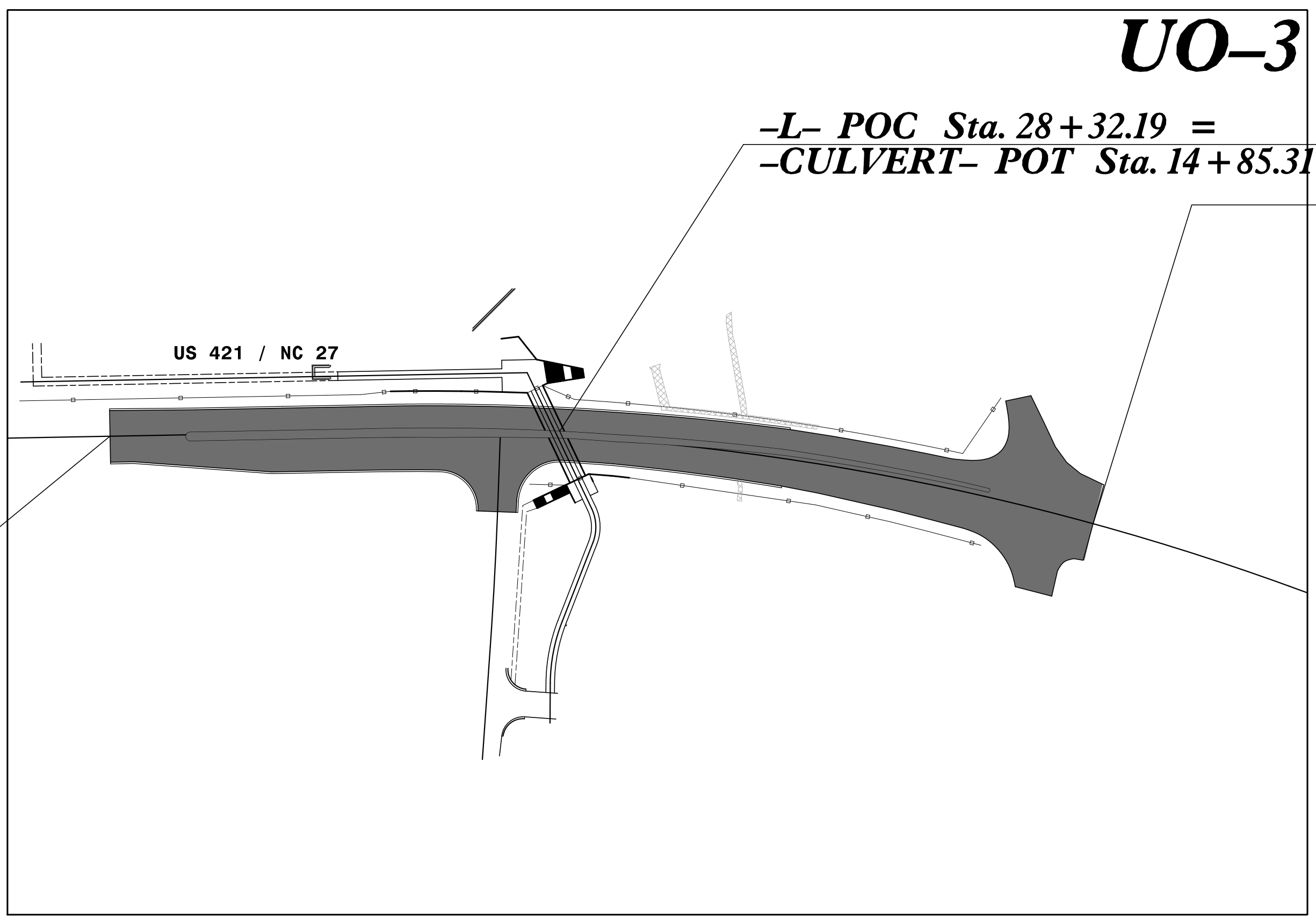
UTILITIES BY OTHERS
HARNETT COUNTY

LOCATION: CAMPBELL UNIVERSITY PEDESTRIAN TUNNEL
UNDER US 421/NC 27 IN BUIES CREEK

TYPE OF WORK: AERIAL AND BURIED UTILITIES

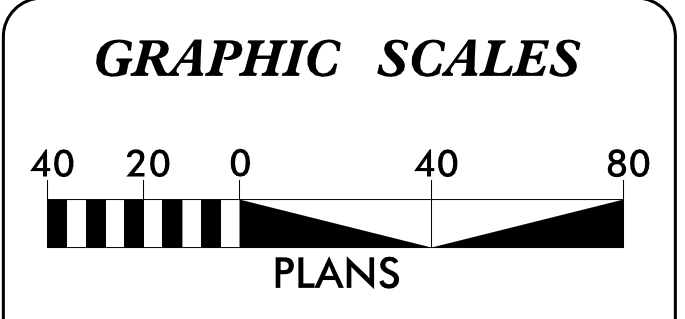


VICINITY MAP



END TIP PROJECT W-5206AG
POT STA. -L- 34+65.71

BEGIN TIP PROJECT W-5206AG
POT STA. -L- 23+12.00



SHEET NO.	DESCRIPTION
UO-01	TITLE SHEET
UO-02	INDEX
UO-03	UTILITIES BY OTHERS
UC-04	6" WATERLINE PLAN & PROFILE (CAMPBELL)
UC-05	GRAVITY SEWER PLAN & PROFILE (CAMPBELL)

- UTILITY OWNERS ON PROJECT**
- (1) POWER - DUKE ENERGY, JB JONES (910)-206-1966
 - (2) COMMUNICATIONS - CAMPBELL UNIVERSITY, EARL SAVAGE (910)-893-1610
 - (3) TELEPHONE - CENTURYLINK, KEVIN GODWIN (910)-366-2142
 - (4) 6" WATER & SEWER - CAMPBELL UNIVERSITY, SCOT PHILLIPS (910)-893-1610
 - (5) 12" & 20" WATER - HARNETT COUNTY, SHANE CUMMINGS (910)-893-7575 X3275
 - (6) CABLE - TIME WARNER CABLE, JACK CRABB (910)-401-5034
 - (7) CABLE - CHARTER, DARREN MCCLUNG (910)-813-1618
 - (8) GAS - PIEDMONT NATURAL GAS (PNG), JIMMIE WOOD (919)-705-5054

PLANS PREPARED BY:

CH ENGINEERING

3220 GLEN ROYAL RD. RALEIGH, NC 27617
 TELE 919.788.0224 FAX 919.788.0232
 NC LICENSE #P-0189

UTILITIES PROJECT ENGINEER

Eric M. Tweed, P.E.

DIVISION OF HIGHWAYS
UTILITIES UNIT
UTILITIES ENGINEERING

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

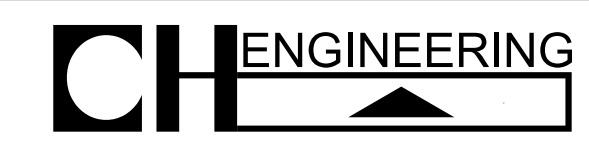
Roger Worthington, P.E. UTILITIES SECTION ENGINEER

12/05/11

Note: Not to Scale

*S.U.E. = Subsurface Utility Engineering

STATE OF NORTH CAROLINA
DIVISION OF HIGHWAYS



3220 GLEN ROYAL RD. RALEIGH, NC 27617
TELE 919.788.0224 FAX 919.788.0232
NC LICENSE #P-0189

PROJECT REFERENCE NO.
W-5206AG SHEET NO.
UO-02

CONVENTIONAL PLAN SHEET SYMBOLS

BOUNDARIES AND PROPERTY:

State Line	-----
County Line	-----
Township Line	-----
City Line	-----
Reservation Line	-----
Property Line	-----
Existing Iron Pin	⊙ EIP
Property Corner	-----
Property Monument	⊠ ECM
Parcel/Sequence Number	Ⓜ 123
Existing Fence Line	-----
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	Ⓢ
Well	Ⓦ
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	-----
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	-----
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	-----
U/G 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	-----

CONTACT INFORMATION FOR UTILITIES

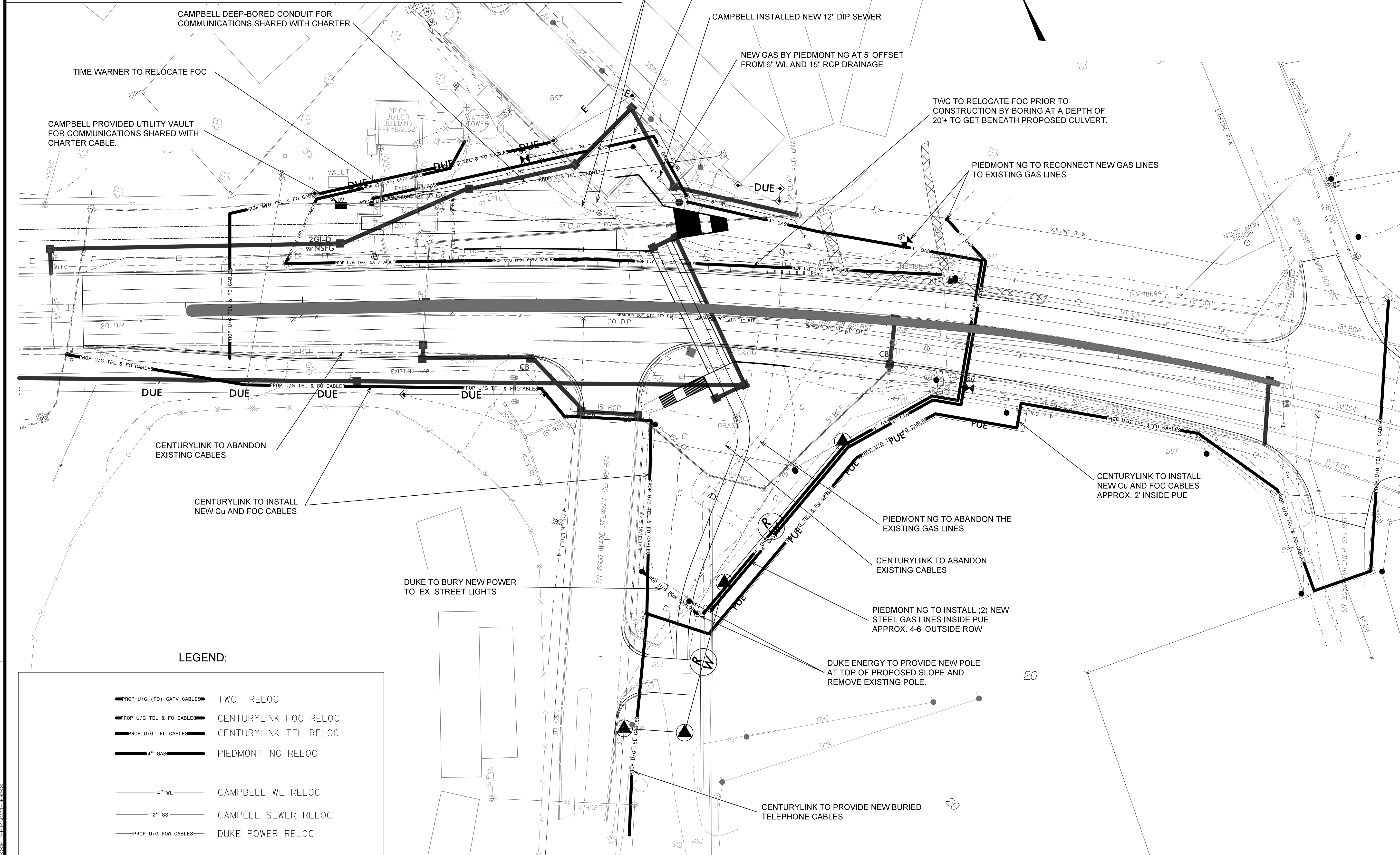
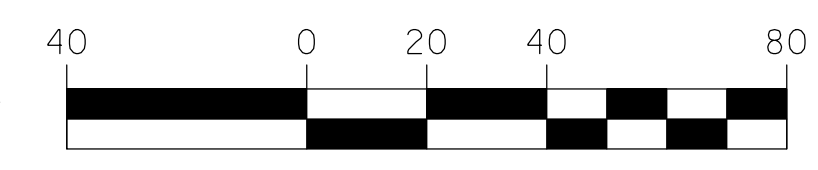
POWER: DUKE POWER- JB JONES, 910-206-1966, JB.JONES@DUKE-ENERGY.COM
 6" WATER & SEWER: CAMPBELL UNIVERSITY- SCOT PHILLIPS, 910-893-1610, PHILLIPSS@CAMPBELL.EDU
 12" & 20" WATER: HARNETT COUNTY- SHANE CUMMINGS, 910-893-7575X3275, SCUMMINGS@HARNETT.ORG
 COMMUNICATIONS: CAMPBELL UNIVERSITY- EARL SAVAGE, 910-893-1610, SAVAGE@CAMPBELL.EDU
 CABLE: TIME WARNER CABLE (TWC)- JACK CRABB, 910-401-5034, JACK.CRABB@TWCABLE.COM
 CABLE: CHARTER- DARREN MCCLUNG, 910-813-1618, DARREN.MCCLUNG@CHARTER.COM
 TELEPHONE: CENTURYLINK- KEVIN GODWIN, 910-336-2142, KEVIN.GODWIN@CENTURYLINK.COM
 GAS: PIEDMONT NG, JIMMIE WOOD, 919-705-5054, JIMMIE.WOOD@PIEDMONTNG.COM

CH ENGINEERING
 3220 GLEN ROYAL RD. RALEIGH, NC 27617
 TELE 919.788.0224 FAX 919.788.0232
 NC LICENSE #P-0189

PROJECT REFERENCE NO.	SHEET NO.
W5206AG	UO-3

UTILITIES BY OTHERS

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

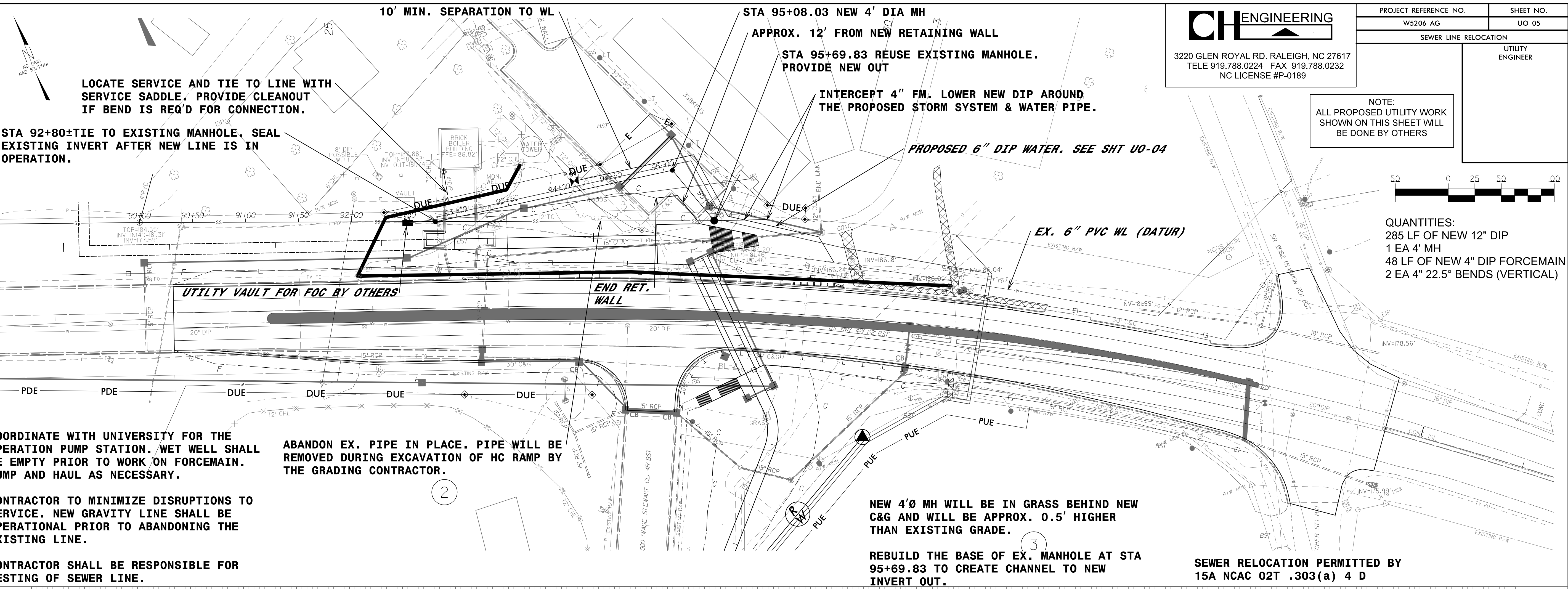


REVISIONS

LEGEND:

	TWC RELOC
	CENTURYLINK FOC RELOC
	CENTURYLINK TEL RELOC
	PIEDMONT NG RELOC
	CAMPBELL WL RELOC
	CAMPBELL SEWER RELOC
	DUKE POWER RELOC

8/17/99



COORDINATE WITH UNIVERSITY FOR THE
OPERATION PUMP STATION. WET WELL SHALL
BE EMPTY PRIOR TO WORK ON FORCEMAIN.
PUMP AND HAUL AS NECESSARY.

ABANDON EX. PIPE IN PLACE. PIPE WILL BE
REMOVED DURING EXCAVATION OF HC RAMP BY
THE GRADING CONTRACTOR.

CONTRACTOR TO MINIMIZE DISRUPTIONS TO
SERVICE. NEW GRAVITY LINE SHALL BE
OPERATIONAL PRIOR TO ABANDONING THE
EXISTING LINE.

NEW 4'Ø MH WILL BE IN GRASS BEHIND NEW
C&G AND WILL BE APPROX. 0.5' HIGHER
THAN EXISTING GRADE.

REBUILD THE BASE OF EX. MANHOLE AT STA
95+69.83 TO CREATE CHANNEL TO NEW
INVERT OUT.

SEWER RELOCATION PERMITTED BY
15A NCAC 02T .303(a) 4 D

REVISIONS

