00 2 IE PR

1302

STATE OF NORTH CAROLINA DIVISION OF HIGHWAYS

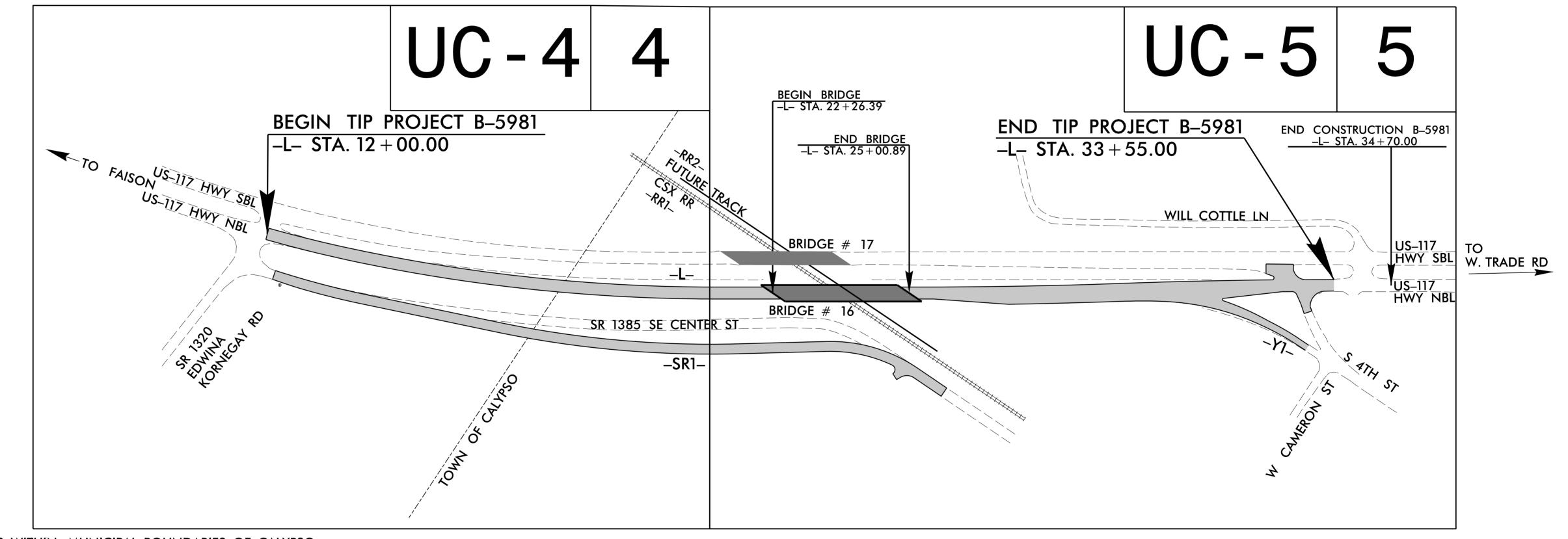
T.I.P. NO. SHEET NO. UC-1 B-5981

# UTILITY CONSTRUCTION PLANS DUPLIN COUNTY

LOCATION: BRIDGE NO. 16 OVER CSX RAILROAD ON US-117 NORTH BOUND LANES AND PRESERVATION OF BRIDGE NO. 17 OVER CSX RAILROAD

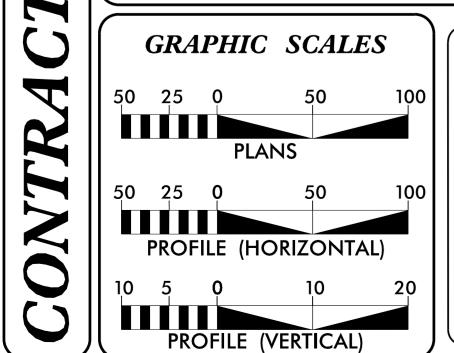
TYPE OF WORK: WATER LINE RELOCATION





THE PROJECT IS WITHIN MUNICIPAL BOUNDARIES OF CALYPSO. THIS IS A CONTROLLED-ACCESS FACILITY WITH ACCESS LIMITED TO INTERCHANGES OR AT GRADE INTERSECTIONS.

**DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETE** 



## INDEX OF SHEETS

1304

NOT TO SCALE

1332

VICINITY MAP

DETOUR ROUTE

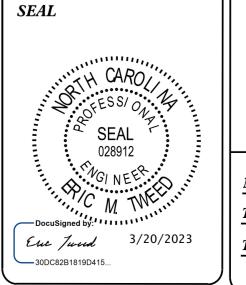
SHEET NO.: **DESCRIPTION:** *UC-1* TITLE SHEET UTILITY SYMBOLOGY *UC-3* **NOTES DETAILS** UC-3AUC-4 THRU UC-5 UTILITY CONSTRUCTION SHEETS *UC-*6 PROFILE SHEETS

WATER AND SEWER OWNERS ON PROJECT

(A) WATER: DUPLIN COUNTY



ERIC TWEED, PE PROJECT ENGINEER MARY JO LEE, PE PROJECT MANAGER





**DIVISION OF HIGHWAYS** UTILITIES UNIT 1555 MAIL SERVICES CENTER RALEIGH NC 27699–1555 PHONE (919) 707–6690 FAX (919) 250–4151

NABIL HAMDAN TANGA SAMPSON

UTILITIES REGIONAL ENGINEER REGIONAL UTILITY COORDINATOR TYRON STALLINGS UTILITIES COORDINATOR

# STATE OF NORTH CAROLINA

# UTILITIES PLAN SHEET SYMBOLS

#### PROPOSED WATER SYMBOLS

# Water Line (Sized as Shown) 11½ Degree Bend 22½ Degree Bend 45 Degree Bend 90 Degree Bend 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 REM WM 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)	12" SS
Force Main Sewer Line (Sized as Shown)	12" FSS
Manhole (Sized per Note)	
Sewer Pump Station	

#### PROPOSED MISCELLANOUS UTILITIES SYMBOLS

Telephone Pole  Joint Use Pole  Concrete Pier  Utility Line by Others (Type as Shown)  Trenchless Installation  Encasement by Open Cut  Air Release Valve  Utility Vault  Steel Pier  Plan Note  Pay Item Note  PAY ITEM  PAY ITEM	Power Pole ····································	Thrust Block
Telephone Pedestal  Utility Line by Others (Type as Shown)  Trenchless Installation  Encasement by Open Cut  Telephone Pedestal  Concrete Pier  Steel Pier  Plan Note  Plan Note  Pay Item Note  PAY ITEM  PAY ITEM	Telephone Pole	Air Release Valve
Utility Line by Others (Type as Shown)  Trenchless Installation  Encasement by Open Cut  PROP O/H POW LINES  Steel Pier  Plan Note  Plan Note  Pay Item Note  PAY ITEM	Joint Use Pole ····································	Utility Vault
Trenchless Installation ————————————————————————————————————	Telephone Pedestal Č	Concrete Pier
Encasement by Open Cut Pay Item Note Pay Item Note Pay Item Note	Utility Line by Others(Type as Shown)	Steel Pier
Encasement by Open Cut Pay Item Note Pay Item Note	Trenchless Installation	
Encasement	Encasement by Open Cut	
	Encasement	PAY ITEM

#### EVICTING LITTLITTES SYMBOLS

	EXISTING UTIL	LITES SYMBOLS
Power Pole	•	*Underground Power Line
Telephone Pole	···· - <del>•</del> -	*Underground Telephone Cable
Joint Use Pole	···· - <del> </del>	*Underground Telephone Conduit
Utility Pole		*Underground Fiber Optics Telephone Cable
Utility Pole with Base		*Underground TV Cable
H-Frame Pole	····· • • • • • • • • • • • • • • • • •	*Underground Fiber Optics TV Cable
Power Transmission Line Tower	🖂	*Underground Gas Pipeline
Water Manhole	···· W	Aboveground Gas Pipeline
Power Manhole	···· • •	*Underground Water Line
Telephone Manhole	···· ①	Aboveground Water Line
Sanitary Sewer Manhole	⊕	*Underground Gravity Sanitary Sewer Line ————ss———
Hand Hole for Cable	Нн	Aboveground Gravity Sanitary Sewer Line A/G Sanitary Sewer
Power Transformer	···· 🖊	*Underground SS Forced Main Line
Telephone Pedestal	Т	Underground Unknown Utility Line
CATV Pedestal		SUE Test Hole
Gas Valve	····	Water Meter
Gas Meter	•	Water Valve ····································
Located Miscellaneous Utility Object	···· ⊙	Fire Hydrant ····································
Abandoned According to Utility Records	AATUR	Sanitary Sewer Cleanout ⊕
End of Information	E.O.I.	

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

DocuSign Envelope ID: C333C7FE-E099-405E-AD70-D694052C54DB

## **UTILITY CONSTRUCTION**

ENGINEERING
DIVISION OF PENNONI

5430 WADE PARK BLVD., SUITE 106,
RALEIGH, NC 27607 PHONE: 919.929.1173
FAX: 919.493.6548 NC LICENSE #P-0189

PROJECT REFERENCE	NU•	SHEET NO.
B-5981		UC-3
DESIGNED BY: EMT		
DRAWN BY: EMT	] ,	CARO/
CHECKED BY: BAW	چنج	SESSION AS
APPROVED BY:		: OLAL : :
REVISED:		028912 OI NEE
NORTH CAROLINA DEPARTMENT OF TRANSPORTATION	Docus	Signed by: M White Turned 3/20/2023
UTILITIES ENGINEERING SEC. PHONE: (919)707-6690		7世紀 372072023 <sup>32</sup> <sup>8</sup>

UTILITY CONSTRUCTION

#### **GENERAL NOTES:**

- 1. THE PROPOSED UTILITY CONSTRUCTION SHALL MEET THE APPLICABLE REQUIREMENTS OF THE NC DEPARTMENT OF TRANSPORTATION'S "STANDARD SPECIFICATIONS FOR ROADS AND STRUCTURES" DATED JANUARY 2018.
- 2. THE EXISTING UTILITIES BELONG TO DUPLIN COUNTY.
- 3. ALL WATER LINES TO BE INSTALLED
  WITHIN COMPLIANCE OF THE RULES AND
  REGULATIONS OF THE NORTH CAROLINA
  DEPARTMENT OF ENVIRONMENTAL QUALITY,
  DIVISION OF WATER RESOURCES,
  PUBLIC WATER SUPPLY SECTION. ALL SEWER
  LINES TO BE INSTALLED WITHIN COMPLIANCE
  OF THE RULES AND REGULATIONS OF THE
  NORTH CAROLINA DEPARTMENT OF
  ENVIRONMENT QUALITY, DIVISION OF WATER
  RESOURCES, WATER QUALITY SECTION.
  PERFORM ALL WORK IN ACCORDANCE WITH THE
  APPLICABLE PLUMBING CODES.
- 4. THE UTILITY OWNER OWNS THE EXISTING UTILITY FACILITIES AND WILL OWN THE NEW UTILITY FACILITIES AFTER ACCEPTANCE BY THE DEPARTMENT. THE DEPARTMENT OWNS THE CONSTRUCTION CONTRACT AND HAS ADMINISTRATIVE AUTHORITY. COMMUNICATIONS AND DECISIONS BETWEEN THE CONTRACTOR AND UTILITY OWNER ARE NOT BINDING UPON THE DEPARTMENT OR THIS CONTRACT UNLESS AUTHORIZED BY THE ENGINEER. AGREEMENTS BETWEEN THE UTILITY OWNER AND CONTRACTOR FOR THE WORK THAT IS NOT PART OF THIS CONTRACT OR IS SECONDARY TO THIS CONTRACT ARE ALLOWED, BUT ARE NOT BINDING UPON THE DEPARTMENT.
- 5. PROVIDE ACCESS FOR THE DEPARTMENT PERSONNEL AND THE OWNER'S REPRESENTATIVES TO ALL PHASES OF CONSTRUCTION. NOTIFY DEPARTMENT PERSONNEL AND THE UTILITY OWNER TWO WEEKS PRIOR TO COMMENCEMENT OF ANY WORK AND ONE WEEK PRIOR TO SERVICE INTERRUPTION. KEEP UTILITY OWNERS' REPRESENTATIVES INFORMED OF WORK PROGRESS AND PROVIDE OPPORTUNITY FOR INSPECTION OF CONSTRUCTION AND TESTING.

- 6. THE PLANS DEPICT THE BEST AVAILABLE INFORMATION FOR THE LOCATION, SIZE, AND TYPE OF MATERIAL FOR ALL EXISTING UTILITIES. MAKE INVESTIGATIONS FOR DETERMINING THE EXACT LOCATION, SIZE, AND TYPE MATERIAL OF THE EXISTING FACILITIES AS NECESSARY FOR THE CONSTRUCTION OF THE PROPOSED UTILITIES AND 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.
- 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.

#### PROJECT SPECIFIC NOTES:

- 1. PROPOSED WATER LINE FROM -WL- LINE STATION 18+25 TO -WL- LINE STATION 19+10 SHALL BE R.J. (RESTRAINED JOINT) PIPE. OWNER PREFERS GRIP-RING STYLE TO BE USED FOR RESTRAINING.
- 2. CONTRACTOR'S ATTENTION IS DIRECTED TO SECTIONS 102, 107, AND 1550 OF THE STANDARD SPECIFICATIONS CONCERNING TRENCHLESS INSTALLATION. IT IS CONTRACTOR'S RESPONSIBILITY TO HAVE BORE DESIGNED AND SEALED BY A LICENSED NORTH CAROLINA PROFESSIONAL ENGINEER. NO DAMAGE IS ALLOWED TO RIVER, WETLANDS, OR BUFFER ZONES.

DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED

LIST OF STANDARD DRAWINGS

1515.01 WATER METER

DocuSign Envelope ID: C333C7FE-E099-405E-AD70-D694052C54DB

PROJECT TYPICAL DETAILS

ENGINEERING
DIVISION OF PENNONI

5430 WADE PARK BLVD., SUITE 106,
RALEIGH, NC 27607 PHONE: 919.929.1173
FAX: 919.493.6548 NC LICENSE #P-0189

PROJECT REFERENCE NO. SHEET NO.

B-5981

DESIGNED BY: EMT

DRAWN BY: EMT

CHECKED BY: BAW

APPROVED BY:

REVISED:

NORTH CAROLINA
DEPARTMENT OF
TRANSPORTATION

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

DOCUMENTO SHEET NO.

SHEET NO.

CAROLINA
DEPARTMENT OF
TRANSPORTATION

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

#### UTILITY CONSTRUCTION

DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED

