BEGIN PROJECT

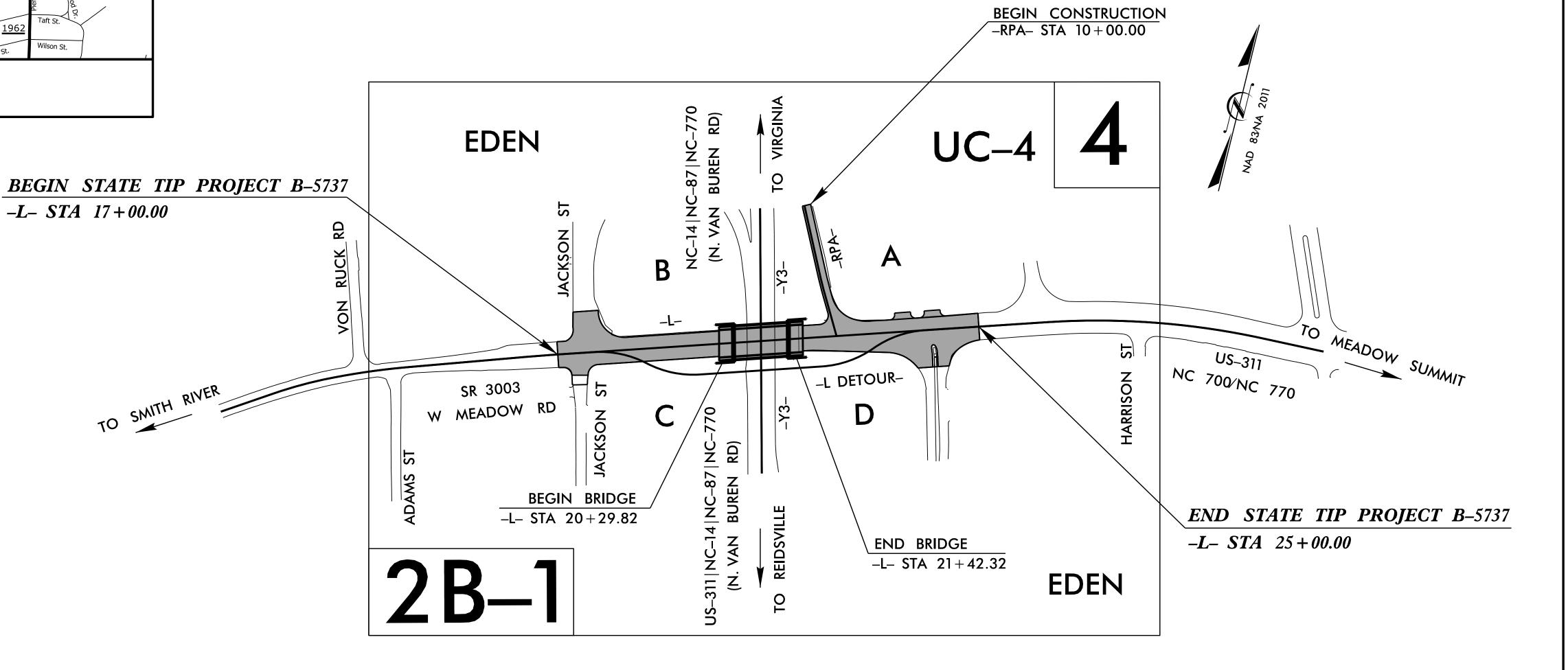
#### STATE OF NORTH CAROLINA DIVISION OF HIGHWAYS

T.I.P. NO. SHEET NO. UC-1 B-5737

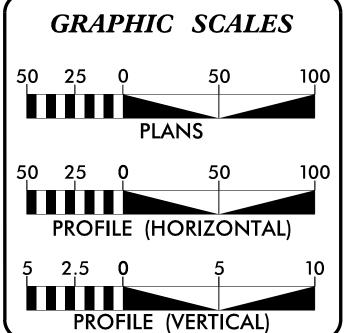
## UTILITY CONSTRUCTION PLANS ROCKINGHAM COUNTY

LOCATION: REPLACE BRIDGE NO. 108 OVER US 311/NC 14/NC 87/NC 770 ON US 311/NC 700/NC 770, SR 3003 (W. MEADOW RD)

TYPE OF WORK: UTILITY CONSTRUCTION



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



#### INDEX OF SHEETS

TO SMITH RIVER

NORTHWES

-L-STA 17 + 00.00

**PROJECT** 

VICINITY MAP (NOT TO SCALE)

> SHEET NO.: **DESCRIPTION:** *UC–1* TITLE SHEET *UC-2* UTILITY SYMBOLOGY *UC-3* **NOTES DETAILS** UC-3A *UC-4* UTILITY CONSTRUCTION SHEET *UC-5* PROFILE SHEET

WATER AND SEWER OWNERS ON PROJECT

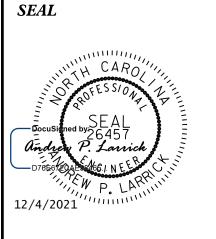
A) WATER – CITY OF EDEN B) SEWER - CITY OF EDEN



Andy Larrick, P.E. Steve McKee, P.E.

Ralph Lowe

CONSULTANT CONTACT #1 CONSULTANT CONTACT #2 CONSULTANT CONTACT #3





**DIVISION OF HIGHWAYS** UTILITIES UNIT

1555 MAIL SERVICE CENTER

RALEIGH NC 27699–1555

PHONE (919) 707–6690

FAX (919) 250–4151

Amy York Ali Koucheki, PE Jon Loughry Dayton Martin

CENTRAL UTILITIES MANAGER REGIONAL UTILITIES ENGINEER SENIOR UTILITIES ENGINEER REGIONAL UTILITY COORDINATOR SENIOR UTILITY COORDINATOR

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PROJECT REFERENCE NO.	SHEET NO.
B-5737	110-2

A/G Water

A/G Sanitary Sewer

#### STATE OF NORTH CAROLINA DIVISION OF HIGHWAYS

### UTILITIES PLAN SHEET SYMBOLS

#### PROPOSED WATER SYMBOLS

#### Water Line (Sized as Shown) - — — — — — 11½ Degree Bend -————————— 45 Degree Bend - — — — — — — +× 90 Degree Bend - — — — — — # Gate Valve-————————————————————— Butterfly Valve ———————— $\stackrel{\scriptscriptstyle\mathsf{BV}}{\longleftarrow}$ Tapping Valve — — — — — — TGV Line Stop - — — — — — — — — — — Line Stop with Bypass—————— Blow Off — — — — — — — — — BO Fire Hydrant-——————————— Remove Fire Hydrant—————————————————— Relocate Water Meter — — — — — RWM Remove Water Meter — — — — — — REM. WM Water Pump Station — — — — — — PS(W) RPZ Backflow Preventer - — — — — — PRPZ DCV Backflow Preventer — — — — — PBFP Relocate RPZ Backflow Preventer——— Relocate DCV Backflow Preventer——— PROPOSED SEWER SYMBOLS (Sized as Shown) Force Main Sewer Line \_ \_ \_ \_ \_ \_ \_ \_ \_ \_ \_ \_ \_ \_ \_ \_ \_\_\_ (Sized as Shown) (Sized per Note)

Sewer Pump Station — — — — — — — — PS(SS)

#### PROPOSED MISCELLANOUS UTILITIES SYMBOLS

Power Pole ——————————	- <b>6</b>	Thrust Block -————————	· 1
Telephone Pole -—————————	- <b>-0-</b>	Air Release Valve-————————	- AR - ●
Joint Use Pole -————————	- <b>-&amp;-</b>	Utility Vault — — — — — — — —	- UV
Telephone Pedestal — — — — — — —	- TEL PED	Concrete Pier — — — — — — — —	- CP
Utility Line by Others	PROP 0/H POW LINES	Steel Pier ——————————	- SP
Trenchless Installation $-\!-\!-\!-\!-\!-$	■ 12" TL INSTALL	Plan Note -—————————	NOTE
Encasement by Open Cut ——————	24" FNCAS BY OC	Pay Item Note — — — — — — — — —	NOTE PAY ITEM
Encasement - — — — — — — — — — — —	- 24" ENCASEMENT		PAY ITEM

#### EXISTING UTILITIES SYMBOLS

Power Pole	*Underground Power Line-————————
Telephone Pole	*Underground Telephone Cable ———————
Joint Use Pole−−−−−+	*Underground Telephone Conduit-—————————
Utility Pole-—————— •	*Underground Fiber Optics Telephone Cable ———— T FO
Utility Pole with Base-———— 🗆	*Underground TV Cable·———————————
H-Frame Pole-——————————	*Underground Fiber Optics TV Cable——————TV FO——
Power Transmission Line Tower-——— $\boxtimes$	*Underground Gas Pipeline-————————————————————————————————————
Water Manhole — — — — — — ®	Aboveground Gas Pipeline-————————————————————————————————————
Power Manhole — — — — — ®	*Underground Water Line-—————————
Telephone Manhole - — — — — •	Aboveground Water Line-————————————————————————————————————
Sanitary Sewer Manhole-————— ®	*Underground Gravity Sanitary Sewer Line- ———ss——
Hand Hole for Cable−−−−− ⊞	Aboveground Gravity Sanitary Sewer Line-
Power Transformer-—————— 🗵	*Underground SS Forced Main Line—————FSS—
Telephone Pedestal — — — — — —	Underground Unknown Utility Line — — — — ™—
CATV Pedestal — — — — ©	SUE Test Hole — — — — — — ●
Gas Valve	Water Meter — — — — — — — — — —
Gas Meter	Water Valve — — — — — — ∞
Located Miscellaneous Utility Object — $\circ$	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

#### **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 WATER AND SEWER UTILITIES BELONG TO THE CITY OF EDEN.
- 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. 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 OWNER'S 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. LINE STOPS AND INSERT VAVLES WILL BE REQUIRED WHERE INDICATED ON THE PLANS, WHERE THE UTILITY OWNER CANNOT ISOLATE THE EXISTING LINES WITHOUT MAJOR DISRUPTION OF SERVICE TO MANY USERS.
- 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. UNLESS OTHERWISE NOTED, FOR PROPOSED WATER MAINS AND SEWER MAINS 3" THRU 12" DIAMETER, PIPE SHALL BE DUCTILE IRON, PC 350. PROVIDE RESTRAINED-JOINT DIP WHERE INDICATED ON PROFILES.
- 2. WATER LINE VALVES SHALL BE RESILIENT-SEAT GATE VALVES CONFORMING TO ANSI/AWWA C509, RATED FOR 200 PSI MINIMUM WORKING PRESSURE.
- 3. CONTRACTOR SHALL COORDINATE WITH THE UTILITY OWNER CONCERNING THE TIMING AND SCHEDULE OF REQUIRED SHUT-DOWNS OF ANY EXISTING WATER OR SEWER MAINS.

#### PROJECT SPECIFIC NOTES

# DESIGNED BY: DMP DRAWN BY: DMP CHECKED BY: DMP APPROVED BY: REVISED: NORTH CAROLINA DEPARTMENT OF TRANSPORTATION UTILITIES ENGINEERING SEC. PHONE: (919)707-6690 FAX: (919)250-4151 CAROLINA DOCUMENT CAROLINA DEPARTMENT OF TRANSPORTATION UTILITIES ENGINEERING SEC. PHONE: (919)707-6690 FAX: (919)250-4151

B-5737

PROJECT REFERENCE NO. | SHEET NO.

UC-3

UTILITY CONSTRUCTION

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#### LIST OF STANDARD DRAWINGS

1515.01 WATER METER

1515.02 FIRE HYDRANT

1520.01 SEWER CLEAN OUT

DE

5\$\$\$YSTIME\$\$\$\$\$ 5\$\$\$\$\$\$\$\$\$\$\$\$\$\$\]GN\$\$\$\$\$\$\$\$\$\$\$\$\$ kiicednameaaa DocuSign Envelope ID: CB342EA1-2C5C-4FCE-B5E6-F3F6E803C3B5

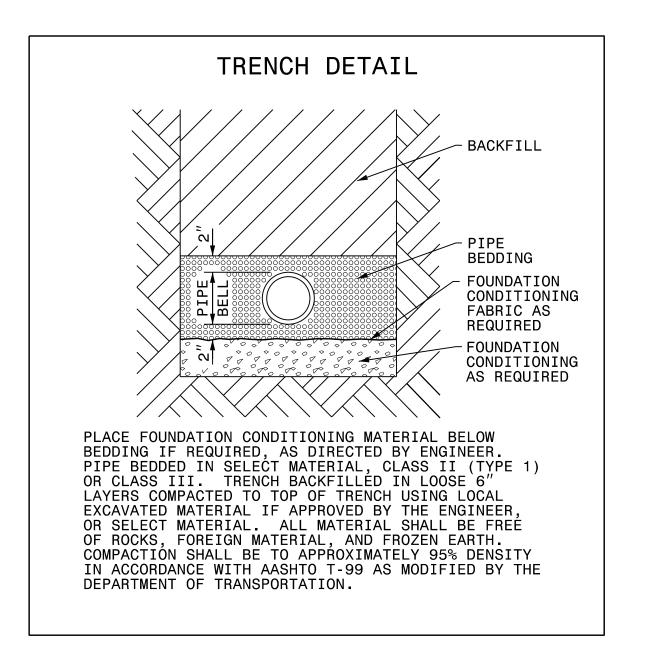
# PROJECT TYPICAL DETAILS

PROJECT REFERENCE	NO.	SHEET NO.
B-5737		UC-3A
DESIGNED BY: DMP		Minnin.
DRAWN BY: DMP		TH CARO
CHECKED BY: DMP	; \ ; \ ; \	SEAL SEAL
APPROVED BY:	I – 1	SEAL = 1
REVISED:	And	bigned 216457
NORTH CAROLINA DEPARTMENT OF TRANSPORTATION	12/4/20	Bigned 26 457  Bew P. Larrid  Back & Bosn EFR  CARRELLE STREET
UTILITIES ENGINEERING SEC. PHONE: (919)707-6690 FAX: (919)250-4151	, ,	TY CONSTRUCTION PLANS ONLY

#### UTILITY CONSTRUCTION

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# | NOMINAL PIPE SIZE (INCHES) | TRENCH WIDTH (INCHES) |



\$\$\$\$YSTIME\$\$\$\$\$

UTILITY CONSTRUCTION PLANS PREPARED BY:

DAVIS • MARTIN • POWELL

ENGINEERS & SURVEYORS

6415 OLD PLANK RD, HIGH POINT, NC 27265
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