

NORTH CAROLINA
GUILFORD COUNTY

UTILITY CONSTRUCTION AGREEMENT (UCA)

DATE: 9/12/2019

NORTH CAROLINA DEPARTMENT OF
TRANSPORTATION

AND

Project WBS 17BP.7.R.116

CITY OF GREENSBORO

THIS AGREEMENT is made and entered into on the last date executed below, by and between the North Carolina Department of Transportation, an agency of the State of North Carolina, hereinafter referred to as the "Department" and the City of Greensboro, hereinafter referred to as the "Municipality."

WITNESSETH:

WHEREAS, the Department has prepared and adopted plans to make certain street and highway improvements under Project 17BP.7.R.116 in Guilford County, said plans consists of replacing Bridge No. 224 over South Buffalo Creek on SR 3000 (McConnell Road). The bridge replacement will require utility construction within the construction limits per project plans; said project having a right-of-way width as shown on the project plans on file with the Department's office in Raleigh, North Carolina; and,

WHEREAS, the parties hereto wish to enter into an agreement for certain utility work to be performed by the Department's construction contractor with full reimbursement by the Municipality for the costs thereof as hereinafter set out.

NOW, THEREFORE, it is agreed as follows:

CONSTRUCTION

1. The Department shall place provisions in the construction contract for the Project for the contractor to adjust and relocate water lines. Said work shall be accomplished in accordance with plan sheets attached as Exhibit "A", cost estimate attached as Exhibit "B", and project specific provisions, if applicable, attached hereto as Exhibit "C".

2. The Municipality shall be responsible for the cost of water lines as shown on Exhibit "A". The estimated cost to the Municipality is \$629,208 as shown on Exhibit "B". It is understood by both parties that this is an estimated cost and is subject to change. The Municipality shall reimburse the Department for said costs as follows:

REIMBURSEMENT TO THE DEPARTMENT

3. The Municipality shall reimburse the Department for said costs as follows:
 - A. Upon completion of the highway work, the Department shall submit an itemized invoice to the Municipality for costs incurred. Billing will be based upon the actual bid prices and actual quantities used.
 - B. Reimbursement shall be made by the Municipality in one final payment within sixty (60) days of said invoice.
 - C. If the Municipality does not pay said invoice within sixty (60) days of the date of the invoice, the Department shall charge interest on any unpaid balance at a variable rate of the prime plus (1%) in accordance with G.S. 136-27.3.
 - D. Said interest rate shall be set upon final execution of the Agreement by the Department. The Municipality will be notified of the set interest rate by the Department's approval letter upon receipt of the fully executed agreement.
 - E. Any cost incurred due to additional utility work requested by the Municipality after award of the construction contract, shall be solely the responsibility of the Municipality. The Municipality shall reimburse the Department 100% of the additional utility cost.
 - F. In the event the Municipality fails for any reason to pay the Department in accordance with the provisions for payment hereinabove provided, North Carolina General Statute 136-41.3 authorizes the Department to withhold so much of the Municipality's share of funds allocated to said Municipality by North Carolina General Statute, Section 136-41.1, until such time as the Department has received payment in full.

John

4. Upon the satisfactory completion of the relocations and adjustments of the utility lines covered under this Agreement, the Municipality shall assume normal maintenance operations to the said utility lines. Upon completion of the construction of the highway project, the Municipality shall release the Department from any and all claims for damages in connection with adjustments made to its utility lines; and, further, the Municipality shall release the Department of any future responsibility for the cost of maintenance to said utility lines. Said releases shall be deemed to be given by the Municipality upon completion of construction of the project and its acceptance by the Department from its contractor unless the Municipality notifies the Department, in writing, to the contrary prior to the Department's acceptance of the project.
5. It is further agreed that the following provisions shall apply regarding the utilities covered in this Agreement.
 - A. The Municipality obligates itself to service and to maintain its facilities to be retained and installed over and along the highway within the Department's right-of-way limits in accordance with the mandate of the North Carolina General Statutes and such other laws, rules, and regulations as have been or may be validly enacted or adopted, now or hereafter.
 - B. If at any time the Department shall require the removal of or changes in the location of the encroaching facilities which are being relocated at the Municipality's expense, the Municipality binds itself, its successors and assigns, to promptly remove or alter said facilities, in order to conform to the said requirement (if applicable per G.S. 136-27.1), without any cost to the Department.
6. This Agreement may be executed in counterparts, each of which shall be deemed an original and together shall constitute a single instrument. A copy or facsimile copy of the fully executed Agreement shall be deemed an original.
7. By Executive Order 24, issued by Governor Perdue, and N.C. G.S. § 133-32, it is unlawful for any vendor or contractor (i.e. architect, bidder, contractor, construction manager, design professional, engineer, landlord, offeror, seller, subcontractor, supplier, or vendor), to make gifts or to give favors to any State employee of the Governor's Cabinet Agencies (i.e., Administration, Commerce, Environmental Quality, Health and Human Services, Information Technology, Military and Veterans Affairs, Natural and Cultural Resources, Public Safety, Revenue, Transportation, and the Office of the Governor).

IN WITNESS WHEREOF, this Agreement has been executed, in duplicate, the day and year heretofore set out, on the part of the Department and the Municipality by authority duly given.

L.S. ATTEST:

CITY OF GREENSBORO

BY: _____ BY: _____

TITLE: _____ TITLE: _____

DATE: _____

N.C.G.S. § 133-32 and Executive Order 24 prohibit the offer to, or acceptance by, any State Employee of any gift from anyone with a contract with the State, or from any person seeking to do business with the State. By execution of any response in this procurement, you attest, for your entire organization and its employees or agents, that you are not aware that any such gift has been offered, accepted, or promised by any employees of your organization.

Approved by the City of Greensboro as attested to by the signature of _____

on _____ (Date)

This instrument has been pre-audited in the manner required by the Local Government Budget and Fiscal Control Act.

(SEAL)

(FINANCE OFFICER)

Federal Tax Identification Number

Remittance Address:

City of Greensboro

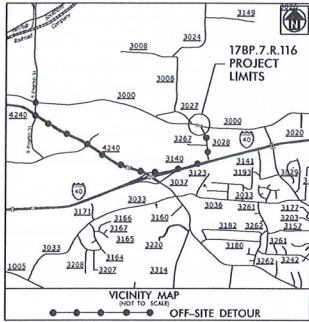
DEPARTMENT OF TRANSPORTATION

BY: _____
(CHIEF ENGINEER)

DATE: _____

APPROVED BY BOARD OF TRANSPORTATION ITEM O: _____ (Date)

TIP PROJECT: 17BP.7.R.116



STATE OF NORTH CAROLINA
DIVISION OF HIGHWAYS

UTILITY CONSTRUCTION PLANS
GUILFORD COUNTY

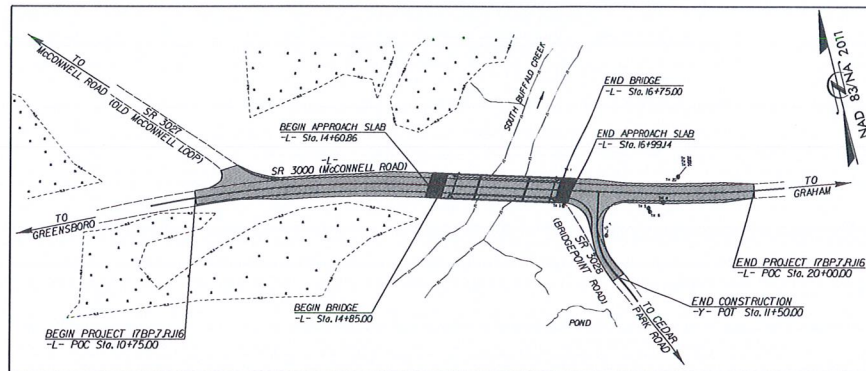
LOCATION: BRIDGE NO. 224 OVER SOUTH BUFFALO CREEK ON SR 3000 (McCONNELL ROAD)
TYPE OF WORK: UTILITY CONSTRUCTION

| | |
|--------------|-----------|
| T.I.P. NO. | SHEET NO. |
| 17BP.7.R.116 | UC-1 |

UTILITY AGREEMENT PLANS

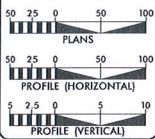
EXHIBIT A
AGREEMENT PLANS

| COST BREAKDOWN LEGEND | |
|-------------------------|--|
| STATE COST | |
| CITY OF GREENSBORO COST | |



DOCUMENT NOT CONSIDERED FINAL
UNLESS ALL SIGNATURES COMPLETED

GRAPHIC SCALES



INDEX OF SHEETS

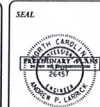
| SHEET NO. | DESCRIPTION: |
|--------------|-----------------------------|
| UC-1 | TITLE SHEET |
| UC-2 | UTILITY SYMBOLOLOGY |
| UC-3 | NOTES |
| UC-3A, UC-3B | DETAILS |
| UC-4, UC-4A | UTILITY CONSTRUCTION SHEETS |
| UC-5 | PROFILE SHEET |

WATER AND SEWER
OWNERS ON PROJECT

- A) WATER - CITY OF GREENSBORO
B) SEWER - CITY OF GREENSBORO

PREPARED IN THE OFFICE OF:
DAVIS • MARTIN • POWELL
ENGINEERS & SURVEYORS

Andy Jarrick, P.E. CONSULTANT CONTACT #1
Steve McKen, P.E. CONSULTANT CONTACT #2
Ralph Lane CONSULTANT CONTACT #3



**DIVISION OF HIGHWAYS
DIVISION 7**
200 HANCOCK STREET
GREENSBORO, NC 27405-4998
PHONE: (336) 344-2000
FAX: (336) 344-3617

Tim Powers, P.E. DIVISION BRIDGE PROGRAM MGR
Don Langley DIVISION UTILITY COORDINATOR

STATE OF NORTH CAROLINA
DIVISION OF HIGHWAYS

PROJECT REFERENCE NO. SHEET NO.
TYP. 1A110 - GURAND 314 UC-2

UTILITIES PLAN SHEET SYMBOLS

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 | ----- |
| Tea | ----- |
| Cross | ----- |
| 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 | ----- |
| 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) | ----- |
| Force Main Sewer Line (Sized as Shown) | ----- |
| Manhole (Sized per Note) | ----- |
| Sewer Pump Station | ----- |

PROPOSED MISCELLANEOUS UTILITIES SYMBOLS

| | |
|-------------------------------------------|-------|
| Power Pole | ----- |
| Telephone Pole | ----- |
| Joint Use Pole | ----- |
| Telephone Pedestal | ----- |
| Utility Line by Others (Type as Shown) | ----- |
| Trenchless Installation | ----- |
| Encasement by Open Cut | ----- |
| Encasement | ----- |

| | |
|-------------------|-------|
| Thrust Block | ----- |
| Air Release Valve | ----- |
| Utility Vault | ----- |
| Concrete Pier | ----- |
| Steel Pier | ----- |
| Plan Note | ----- |
| Pay Item Note | ----- |

NOTE
PAY ITEM

EXISTING UTILITIES SYMBOLS

| | |
|----------------------------------------|-------|
| Power Pole | ----- |
| Telephone Pole | ----- |
| Joint Use Pole | ----- |
| Utility Pole | ----- |
| Utility Pole with Base | ----- |
| H-Frame Pole | ----- |
| Power Transmission Line Tower | ----- |
| Water Manhole | ----- |
| Power Manhole | ----- |
| Telephone Manhole | ----- |
| Sanitary Sewer Manhole | ----- |
| Hand Hole for Cable | ----- |
| Power Transformer | ----- |
| Telephone Pedestal | ----- |
| CATV Pedestal | ----- |
| Gas Valve | ----- |
| Gas Meter | ----- |
| Located Miscellaneous Utility Object | ----- |
| Abandoned According to Utility Records | ----- |
| End of Information | ----- |

| | |
|-------------------------------------------|-------|
| *Underground Power Line | ----- |
| *Underground Telephone Cable | ----- |
| *Underground Telephone Conduit | ----- |
| *Underground Fiber Optics Telephone Cable | ----- |
| *Underground TV Cable | ----- |
| *Underground Fiber Optics TV Cable | ----- |
| *Underground Gas Pipeline | ----- |
| Aboveground Gas Pipeline | ----- |
| *Underground Water Line | ----- |
| Aboveground Water Line | ----- |
| *Underground Gravity Sanitary Sewer Line | ----- |
| Aboveground Gravity Sanitary Sewer Line | ----- |
| *Underground SS Forced Main Line | ----- |
| Underground Unknown Utility Line | ----- |
| SUE Test Hole | ----- |
| Water Meter | ----- |
| Water Valve | ----- |
| Fire Hydrant | ----- |
| Sanitary Sewer Cleanout | ----- |

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

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 GREENSBORO.
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 ENVIRONMENTAL 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:

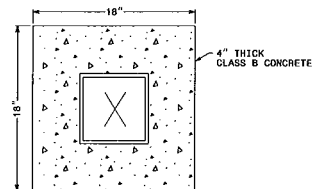
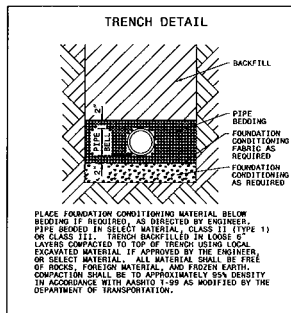
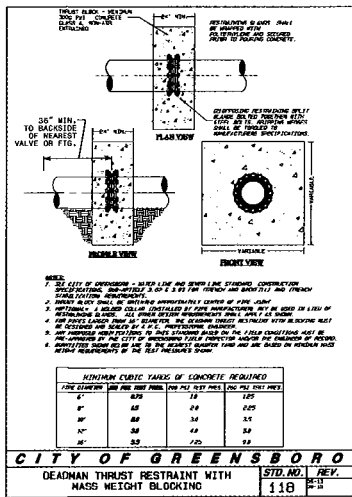
1. UNLESS OTHERWISE NOTED, PIPE AND FITTINGS FOR PROPOSED WATER MAINS 12" DIAMETER AND SMALLER SHALL BE DUCTILE IRON, PC 350.
2. UNLESS OTHERWISE NOTED, PIPE AND FITTINGS FOR PROPOSED WATER MAINS 16" DIAMETER AND LARGER SHALL BE DUCTILE IRON, PC 250.
3. WATER LINE VALVES SHALL BE RESILIENT-SEAT GATE VALVES CONFORMING TO ANSI/AWWA C509, RATED FOR 200 PSI MINIMUM WORKING PRESSURE.
4. 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.
5. THE CONTRACTOR SHALL CONTACT THE CITY OF GREENSBORO WATER RESOURCES DEPARTMENT AT LEAST TWO (2) WEEKS IN ADVANCE OF ANY WORK INVOLVING SHUT-DOWNS OF EXISTING WATER MAINS. THE CONTRACTOR SHALL PROVIDE TEMPORARY WATER SERVICE TO CUSTOMERS WHEN EXISTING WATER MAINS HAVE TO BE SHUT DOWN FOR MORE THAN 8 HOURS.

LIST OF STANDARD DRAWINGS

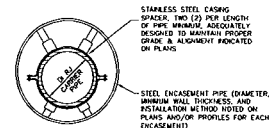
- 1515.01 WATER METER
- 1515.02 FIRE HYDRANT
- 1520.01 SEWER CLEAN OUT
- 1525.06 PRECAST CONCRETE SANITARY SEWER MANHOLE WITH CAST-IN-PLACE BOTTOM

| | |
|-----------------------------------------------------------------------------------------|-----------|
| PROJECT REFERENCE NO. | SHEET NO. |
| 17W-74116 - GUMFORD ST. | UC-3 |
| DESIGNED BY: DMP | |
| DRAWN BY: DMP | |
| CHECKED BY: DMP | |
| APPROVED BY: | |
| REVIEWED: | |
| NORTH CAROLINA DEPARTMENT OF TRANSPORTATION UTILITY CONSTRUCTION PLANS ONLY | |
| DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED | |
| PRELIMINARY PLANS DO NOT USE FOR CONSTRUCTION | |
| UTILITY AGREEMENT PLANS | |

8/7/74

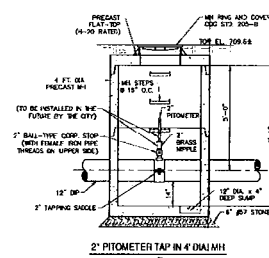
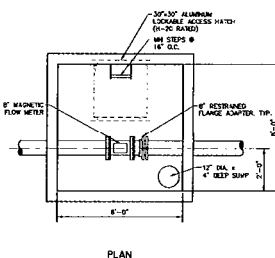
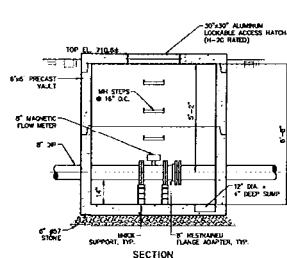
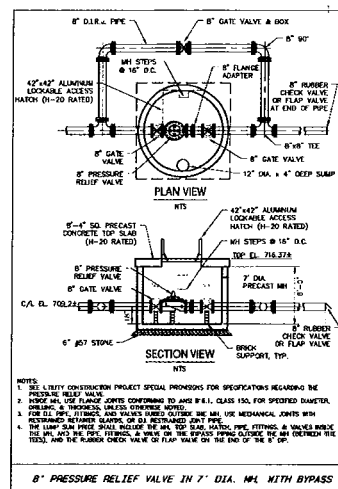
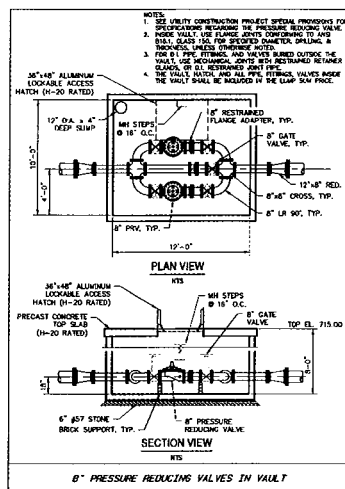



CONCRETE COLLAR FOR VALVE BOX



TYPICAL ENCASEMENT PIPE SECTION
N.T.S.

DAVIS + MARTIN + POWELL
ENGINEERS & SURVEYORS
1101 N. W. 10th Ave., Suite 100
Fort Lauderdale, FL 33311
(305) 555-1111



| | |
|--------------------------------------------------------------------------------------------------------------------------------------------------|-----------|
| PROJECT REFERENCE NO. | SHEET NO. |
| 173P-72116 - GUMFORD 724 | UC-38 |
| DESIGNED BY: DMP | |
| DRAWN BY: DMP | |
| CHECKED BY: DMP | |
| APPROVED BY: | |
| REVISED: | |
|  | |
| NORTH CAROLINA DEPARTMENT OF TRANSPORTATION UTILITIES ENGINEERING SECTION 1910-70-0000 PHONE 1-919-250-4151 FAX 1-919-250-4151 | |
| UTILITY CONSTRUCTION PLAN ONLY | |
| I L I T Y C O N S T R U C T I O N | |
| DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED | |
| PRELIMINARY PLANS DO NOT USE FOR CONSTRUCTION | |
| UTILITY AGREEMENT PLANS | |

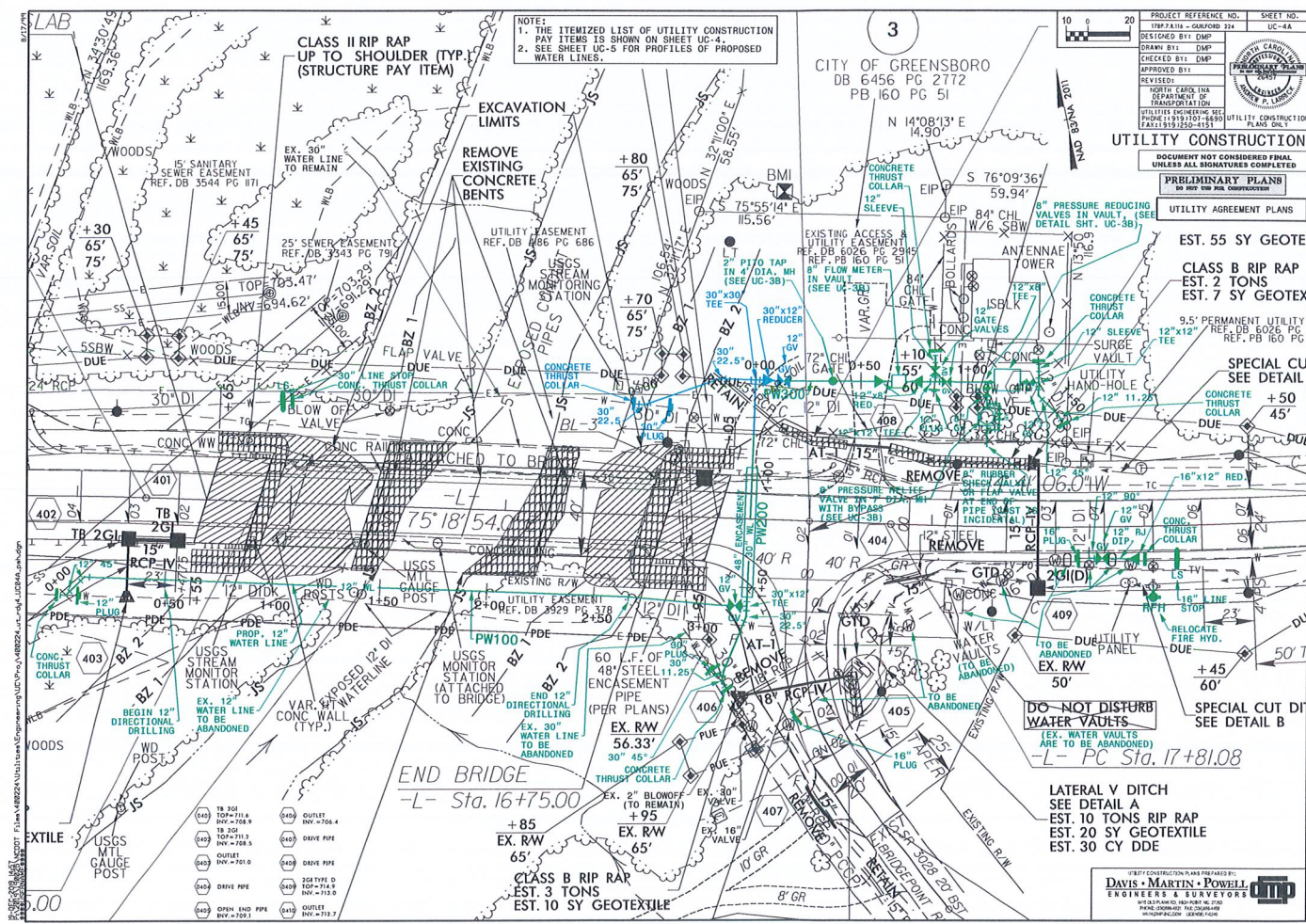
UTILITY CONSTRUCTION

DOCUMENT NOT CONSIDERED FINAL
UNLESS ALL SIGNATURES COMPLETED

PRELIMINARY PLANS

UTILITY AGREEMENT PLANS

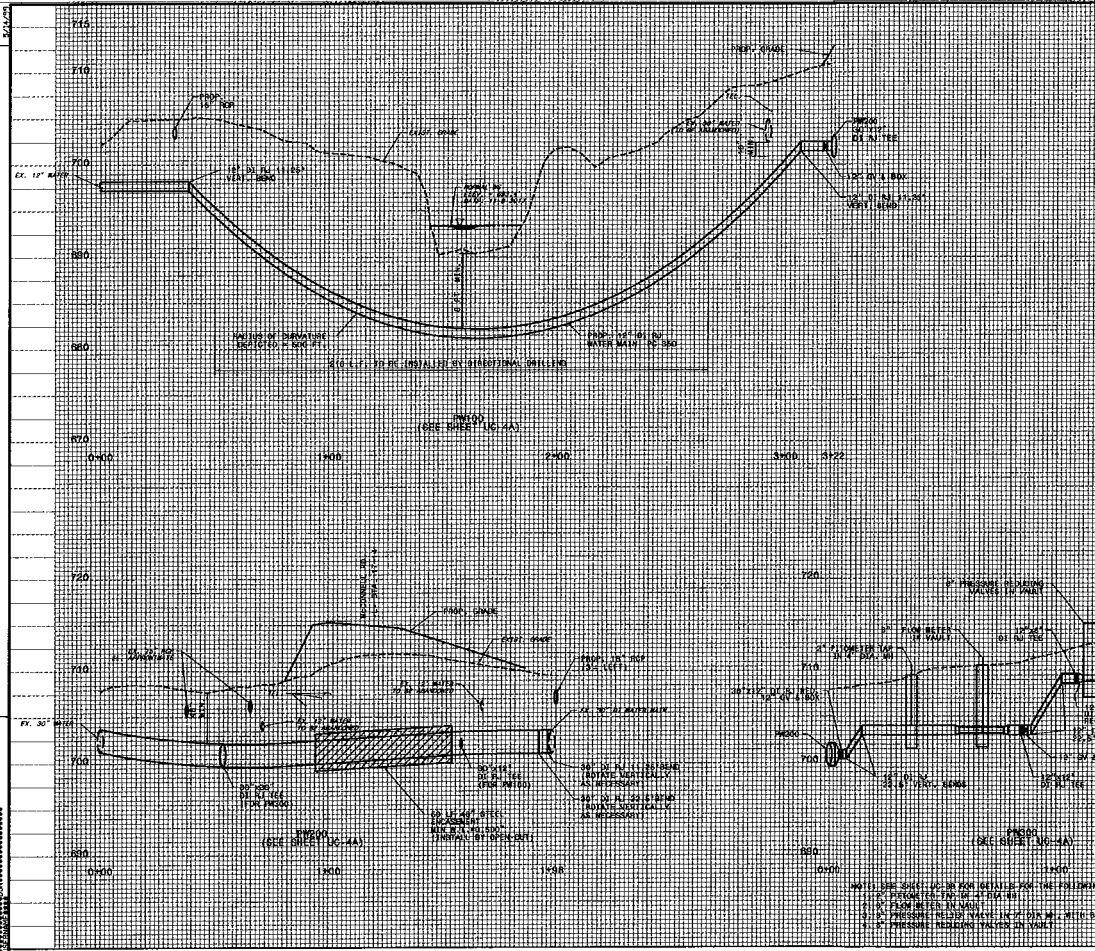
[illegible]





PROJECT REFERENCE NO. SHEET NO.
TWP 2412 - CONCORD 24 UC-5
DESIGNED BY: DMP
DRAWN BY: DMP
CHECKED BY: DMP
APPROVED BY:
REVISIONS:
NORTH CAROLINA
DEPARTMENT OF
TRANSPORTATION
UTILITY ENGINEERING SECTION
PHONE (919) 701-6600 FAX (919) 701-6601
CART 03/12/2015-115

UTILITY CONSTRUCTION
DOCUMENT NOT CONSIDERED FINAL
UNLESS ALL SIGNATURES COMPLETED
PRELIMINARY PLANS
UTILITY CONSTRUCTION
UTILITY ALIGNMENT PLANS



NOTES: SEE SHEET 11-24 FOR DETAILS FOR THE FOLLOWING:
1. 24" WATER MAIN, 10' DEPTH AT 10' SPACING
2. 24" WATER MAIN, 10' DEPTH AT 10' SPACING
3. 24" WATER MAIN, 10' DEPTH AT 10' SPACING
4. 24" WATER MAIN, 10' DEPTH AT 10' SPACING
5. 24" WATER MAIN, 10' DEPTH AT 10' SPACING
6. 24" WATER MAIN, 10' DEPTH AT 10' SPACING
7. 24" WATER MAIN, 10' DEPTH AT 10' SPACING
8. 24" WATER MAIN, 10' DEPTH AT 10' SPACING
9. 24" WATER MAIN, 10' DEPTH AT 10' SPACING
10. 24" WATER MAIN, 10' DEPTH AT 10' SPACING

UTILITY CONSTRUCTION PLANS PREPARED BY:
DAVIS - MARTIN - POWELL
ENGINEERS & SURVEYORS
11111 FARM ROAD, SUITE 100, NC 27617
PHONE (919) 701-6600 FAX (919) 701-6601
WWW.DMP-NC.COM

N.C. Department of Transportation
 Bridge No. 224 over South Buffalo Creek
 on SR 3000 (McConnell Rd.)
 Guilford County
 NCDOT Project 17BP.7.R.116

EXHIBIT B

Preliminary Pay Item List for Utility Construction
 Based on Utility Agreement Plans - 12/19/2019

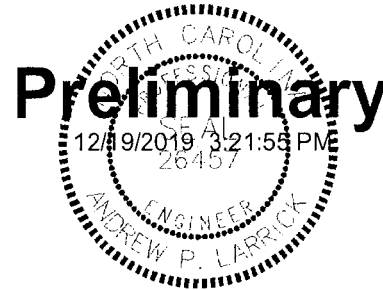
| Type | Item Number | Section | Pay Item Description | TOTALS | | | Unit of Meas. |
|------|--------------|---------|-----------------------------------------------------|--------|------------|--------|---------------|
| | | | | State | Greensboro | TOTAL | |
| D | 0318000000-E | 300 | FOUNDATION CONDITIONING MATERIAL, MINOR STRUCTURES | 5 | 36 | 41 | TON |
| D | 0320000000-E | 300 | FOUNDATION CONDITIONING GEOTEXTILE | 31 | 225 | 256 | SY |
| P | 1693000000-E | 654 | ASPHALT PLANT MIX, PAVEMENT REPAIR | 0 | 20 | 20 | TON |
| U | 5325800000-E | 1510 | 8" WATER LINE | 0 | 35 | 35 | LF |
| U | 5326200000-E | 1510 | 12" WATER LINE | 8 | 465 | 473 | LF |
| U | 5328000000-E | 1510 | 30" WATER LINE | 84 | 116 | 200 | LF |
| U | 5329000000-E | 1510 | DUCTILE IRON WATER PIPE FITTINGS | 7,468 | 12,298 | 19,766 | LBS |
| U | 5546000000-E | 1515 | 8" VALVE | 0 | 1 | 1 | EA |
| U | 5558000000-E | 1515 | 12" VALVE | 1 | 5 | 6 | EA |
| U | 5672000000-N | 1515 | RELOCATE FIRE HYDRANT | 0 | 1 | 1 | EA |
| U | 5673000000-E | 1515 | FIRE HYDRANT LEG | 0 | 5 | 5 | LF |
| U | 5679200000-E | 1515 | 16" LINE STOP | 0 | 1 | 1 | EA |
| U | 5679800000-E | 1515 | 30" LINE STOP | 0 | 1 | 1 | EA |
| U | 5801000000-E | 1530 | ABANDON 8" UTILITY PIPE | 0 | 58 | 58 | LF |
| U | 5804000000-E | 1530 | ABANDON 12" UTILITY PIPE | 0 | 498 | 498 | LF |
| U | 5810000000-E | 1530 | ABANDON 16" UTILITY PIPE | 0 | 150 | 150 | LF |
| U | 5814000000-E | 1530 | ABANDON 30" UTILITY PIPE | 0 | 145 | 145 | LF |
| U | 5816000000-N | 1530 | ABANDON UTILITY MANHOLE | 0 | 4 | 4 | EA |
| U | 5835000000-E | 1540 | 48" ENCASEMENT PIPE | 0 | 60 | 60 | LF |
| U | 5872600000-E | 1550 | DIRECTIONAL DRILLING OF 12" | 0 | 216 | 216 | LF |
| U | 5882000000-N | SP | ABANDON UTILITY VAULT | 0 | 2 | 2 | EA |
| U | 5912000000-N | SP | 2" PITOMETER TAP IN 4' DIA. MH | 0 | 1 | 1 | LS |
| U | 5912000000-N | SP | 8" FLOW METER IN VAULT | 0 | 1 | 1 | LS |
| U | 5912000000-N | SP | 8" PRESSURE REDUCING VALVES IN VAULT | 0 | 1 | 1 | LS |
| U | 5912000000-N | SP | 8" PRESSURE RELIEF VALVE IN 7' DIA. MH, WITH BYPASS | 0 | 1 | 1 | LS |

| | | | |
|-----------------------------------------------|--------------|-------------------|--------------|
| | <u>State</u> | <u>Greensboro</u> | <u>TOTAL</u> |
| Estimated Construction Cost Responsibility \$ | 100,975 | \$ 629,208 | \$ 730,183 |
| | 13.8% | 86.2% | |

PROJECT SPECIAL PROVISIONS
Utility Construction

EXHIBIT C

DAVIS • MARTIN • POWELL
ENGINEERS & SURVEYORS
T: 336-886-4821 | F: 336-886-4458 | License: F-0245
6415 Old Plank Road, High Point, NC 27265 | www.dmp-inc.com



DOCUMENT NOT CONSIDERED FINAL
UNLESS ALL SIGNATURES COMPLETED

Revise the 2018 Standard Specifications as follows:

Page 15-1, Sub-article 1500-2 Cooperation with the Utility Owner, paragraph 2:
add the following sentences:

The utility owner is the City of Greensboro. For work involving Greensboro's facilities, the Contractor shall contact the City of Greensboro Service Center at (336) 373-2033, the City of Greensboro Water Resources Department Administration at (336) 373-2055, and the City of Greensboro Water and Sewer Inspections Department at (336) 373-2377.

A representative from the City of Greensboro shall witness all tests performed on their water facilities. Test results shall be provided to the City of Greensboro for any tests involving their facilities.

Page 15-15, Sub-article 1530-3 Construction Methods: Add the following paragraph:

(E) Abandoning Utility Vaults

Abandon utility vaults in the construction limits by removing the top and walls of the vault down to the spring line or to an elevation of 2 feet below the roadway subgrade, whichever is greater, and filling the vault with approved material.

Plug connecting utility pipes before filling or removing the vault.

Removed frames and covers, hatches, internal piping, valves, etc. shall become the property of the Contractor for proper disposal.

Plan Sheet UC-3B; 8" Pressure Reducing Valves in Vault. The Contractor's attention is directed to this detail:

8" Pressure Reducing Valves in Vault:

8" Pressure Reducing Valves in Vault shall be installed in accordance with the applicable Special Provisions herein, as shown on the Utility Plans, and/or as directed by the Engineer.

Two (2) 8" pressure reducing valves shall be provided, with one being the primary valve and the other one being the secondary valve. The primary valve shall be set to maintain a downstream pressure of 81 psi, and the secondary valve shall be set to maintain a downstream pressure of 77 psi. The pressure reducing valves shall be designed to handle an incoming working pressure between 125 psi and 100 psi.

The pressure reducing valves shall automatically throttle to reduce a higher incoming pressure and maintain an accurate and constant lower downstream pressure regardless of changing flow rate and/or inlet pressure. If downstream pressure increases above the pilot spring setting, the valve shall close.

The pressure reducing valve body and cover shall be ductile-iron body in accordance with ASTM A536, and shall have a fusion-bonded epoxy-coating (interior and exterior) with ANSI/NSF 61 approval. The end-joint connections shall be flanged per ASME/ANSI B16.42, Class 150. The seal disc shall be Buna-N rubber, and the diaphragm shall be nylon reinforced Buna-N rubber. The main valve trim, seat, stem, nut, and spring shall be stainless steel. Internal trim parts shall be stainless steel, bronze, and brass.

The pressure reducing valves shall be installed inside an approved precast concrete vault conforming to ASTM C-913. The top slab of the vault shall have an aluminum, lockable, traffic-rated access hatch, with the frame cast into the top slab, as shown on the Utility Plans.

Measurement and Payment:

The quantity of 8" Pressure Reducing Valves in Vault, installed in accordance with the plans and Special Provisions herein and accepted, will be measured and paid for at the contract unit price each for "8" Pressure Reducing Valves in Vault". Such price and payment will be full compensation for all materials, labor, installation, excavation, equipment, backfilling, and incidentals necessary to complete the work as required.

Pay Item:

8" Pressure Reducing Valves in Vault

Pay Unit

Lump Sum

Plan Sheet UC-3B; 8" Pressure Relief Valve in 7' Diameter Manhole. The Contractor's attention is directed to this detail:

8" Pressure Relief Valve in 7' Diameter Manhole:

8" Pressure Relief Valve in 7' Diameter Manhole shall be installed in accordance with the applicable Special Provisions herein, as shown on the Utility Plans, and/or as directed by the Engineer. The pressure relief valves shall be designed to handle an incoming working pressure between 125 psi and 100 psi. The valve shall be pre-set at the factory to open and relieve pressure when system pressure on the inlet side of the valve is 120 psi or higher.

The pressure relief valve shall... (need input from COG for performance spec).

The pressure relief valve shall be installed inside an approved precast concrete manhole conforming to ASTM C-478. The top of the vault shall be flush with the ground. The manhole top slab shall have an aluminum, lockable, traffic-rated access hatch, with the frame cast into the top slab, as shown on the Utility Plans.

Measurement and Payment:

The quantity of 8" Pressure Relief Valve in 7' Dia. MH With Bypass, installed in accordance with the plans and Special Provisions herein and accepted, will be measured and paid for at the contract unit price each for "8" Pressure Relief Valve in 7' Dia. MH With Bypass". Such price and payment will be full compensation for all materials, labor, installation, excavation, equipment, backfilling, and incidentals necessary to complete the work as required.

Pay Item:

8" Pressure Relief Valve in 7' Dia. MH With Bypass

Pay Unit

Lump Sum

Plan Sheet UC-3B; 2" Pitometer Tap in 4' Diameter Manhole. The Contractor's attention is directed to this detail:

2" Pitometer Tap in 4' Diameter Manhole:

2" Pitometer Tap in 4' Diameter Manhole shall be installed in accordance with the applicable Special Provisions herein, as shown on the Utility Plans, and/or as directed by the Engineer.

The pitometer tap shall be installed inside an approved precast concrete manhole conforming to ASTM C-478. The vault shall be flush with the ground. All castings shall conform to ASTM A48 Class 25 and shall be coated in conformance with ASTM A74.

Measurement and Payment:

The quantity of 2" Pitometer Tap in 4' Dia. MH, installed in accordance with the plans and Special Provisions herein and accepted, will be measured and paid for at the contract unit price each for "2" Pitometer Tap in 4' Dia. MH". Such price and payment will be full compensation for all materials, labor, installation, excavation, equipment, backfilling, and incidentals necessary to complete the work as required.

Pay Item:

2" Pitometer Tap in 4' Dia. MH

Pay Unit

Lump Sum

Plan Sheet UC-3B; 8" Flow Meter in Vault. The Contractor's attention is directed to this detail:

8" Flow Meter in Vault:

8" Flow Meter in Vault shall be installed in accordance with the applicable Special Provisions herein, as shown on the Utility Plans, and/or as directed by the Engineer.

The Flow Meter shall... (need input from COG for performance spec).

The Flow Meter shall be installed inside an approved precast concrete vault conforming to ASTM C-913. The top slab of the vault shall have an aluminum, lockable, traffic-rated access hatch, with the frame cast into the top slab, as shown on the Utility Plans.

Measurement and Payment:

The quantity of 8" Flow Meter in Vault, installed in accordance with the plans and Special Provisions herein and accepted, will be measured and paid for at the contract unit price each for "8" Flow Meter in Vault". Such price and payment will be full compensation for all

materials, labor, installation, excavation, equipment, backfilling, and incidentals necessary to complete the work as required.

Pay Item:

8" Flow Meter in Vault

Pay Unit

Lump Sum