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STATE OF NORTH CAROLINA DIVISION OF HIGHWAYS T.I.P. NO. SHEET NO. See Sheet 1-A For Index of Sheets U-5818 UC-1 1223 Jones Franklin Rd. Raleigh, N.C. 27606 License No. F-0377 UTILITY CONSTRUCTION PLANS West Marion (Uninc.) Bus: 919 851 8077 ∞ McDOWELL COUNTY END TIP PROJECT U-5818 SR 1001 (SUGAR HILL RD.) FROM I-40 LOCATION: -L-STA.38+00.00WB RAMPS TO 0.3MI. WEST OF I-40 EB RAMPS. WATER LINE CONSTRUCTION TYPE OF WORK: VICINTY MAP *END CONSTRUCTION* −*Y3*− *STA*. *10* + 75.00 FINAL DESIGN NOT RELEASED BEG. CONSTRUCTION FOR CONSTRUCTION -Y2-STA. 10+00.00**BEG. CONSTRUCTION** -Y- RT. STA. 459 + 11.61 **BEG. CONSTRUCTION** -RPB-STA.10+00.00-Y2- SR 1190 WORLEY RI END BRIDGE -L- STA. 28 + 82.83 +/--RPC-TO GOOSE CREEK RD. BEGIN BRIDGE -L- STA. 26+58.87+/-(SR 1001 SUGAR HILL RD.) TOWN OF MARION END CONSTRUCTION
-Y- POT STA. 493 + 62.76 **BEGIN TIP PROJECT U-5818** / **-L- STA. 10 + 00.00** THIS IS A CONTROLLED-ACCESS PROJECT WITH ACCESS BEING LIMITED TO INTERCHANGES. CLEARING ON THIS PROJECT SHALL BE PERFORMED TO THE LIMITS ESTABLISHED BY METHOD II. A PORTION OF THIS PROJECT IS WITHIN THE MUNICIPAL BOUNDARIES OF MARION. Ⅎⅆℸⅈ℄⅏⅀ℸℾℴ℣ℾ_ՠ CONSTRUCTION PLANS ONLY DOCUMENT NOT CONSIDERED FINAL **UNLESS ALL SIGNATURES COMPLETED** Prepared for: DIVISION OF HIGHWAYS
DIVISION THIRTEEN

LL in the Office of: WATER AND SEWER OWNERS ON PROJECT GRAPHIC SCALES INDEX OF SHEETS SHEET NO. **DESCRIPTION** (1) CITY OF MARION PUBLIC WORKS (WATER & SEWER) 2018 STANDARD SPECIFICATIONS TITLE SHEET GREG PURVIS, PE RIGHT OF WAY DATE: *UC-2* SYMBOLOGY SHEET PROJECT ENGINEER JUNE 15, 2018 GENERAL NOTES SHEET ROBERT O'DELL PROJECT DESIGN ENGINEER DETAIL SHEET UC-3APROFILE (HORIZONTAL) LETTING DATE: MICHAEL V. ZACCARDO, PE *UC–4* WATER PLAN & PROFILE SHEET JUNE 18, 2019 UTILITY DESIGN ENGINEER

COLE HOOD, PE

DIVISION 13 CONSTRUCTION ENGINEER

NCDOT CONTACT:

SEWER PLAN & PROFILE SHEET

PLAN SHEET

PROFILE (VERTICAL)

UC-6

STATE OF NORTH CAROLINA DIVISION OF HIGHWAYS

UTILITIES PLAN SHEET SYMBOLS

PROPOSED WATER SYMBOLS

Water Line (Sized as Shown) 11¹⁄₄ Degree Bend 22½ Degree Bend 45 Degree Bend 90 Degree Bend Plug Tee · Cross. Reducer Gate Valve Butterfly Valve Tapping Valve Line Stop Line Stop with Bypass Blow Off Fire Hydrant ··· Relocate Fire Hydrant REM FH 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

PROPOSED MISCELLANOUS UTILITIES SYMBOLS

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

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 F0
Power Transmission Line Tower 🖂	*Underground Gas Pipeline ····································
Water Manhole	Aboveground Gas Pipeline
Power Manhole ·····	*Underground Water Line ····································
Telephone Manhole ⑦	Aboveground Water Line
Sanitary Sewer Manhole	*Underground Gravity Sanitary Sewer Liness
Hand Hole for Cable	Aboveground Gravity Sanitary Sewer Line. — A/G Sanitary Sewer
Power Transformer	*Underground SS Forced Main Line
Telephone Pedestal ······	Underground Unknown Utility Line
CATV Pedestal	SUE Test Hole
Gas Valve ····································	Water Meter \Box
Gas Meter	
	Water Valve
Located Miscellaneous Utility Object o	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
Designated Utility Line

(Sized as Shown)

(Sized per Note)

Sewer Pump Station

Manhole

UTILITY CONSTRUCTION

DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED

UC-3 U-5818 DESIGNED BY: SLK Michael V. Lawards SLK OSESSIONAL TO RAWN BY: CHECKED BY: MVZ APPROVED BY: MVZ S E A L 022321 REVISED:

NORTH CAROLINA DEPARTMENT OF TRANSPORTATION S. ENGINEER .: CA

PROJECT REFERENCE NO. | SHEET NO.

TILITIES ENGINEERING SEC UTILITY CONSTRUCTION
PLANS ONLY 1223 Jones Franklin Rd

Raleigh, N.C. 2760 License No. F-037 Bus: 919 851 807 TRANSPORTATION PLANNING/DESIGN - BRIDGE/STRUCTURE DESIGN

UTILITY CONSTRUCTION

FINAL DESIGN NOT RELEASED FOR CONSTRUCTION

GENERAL NOTES:

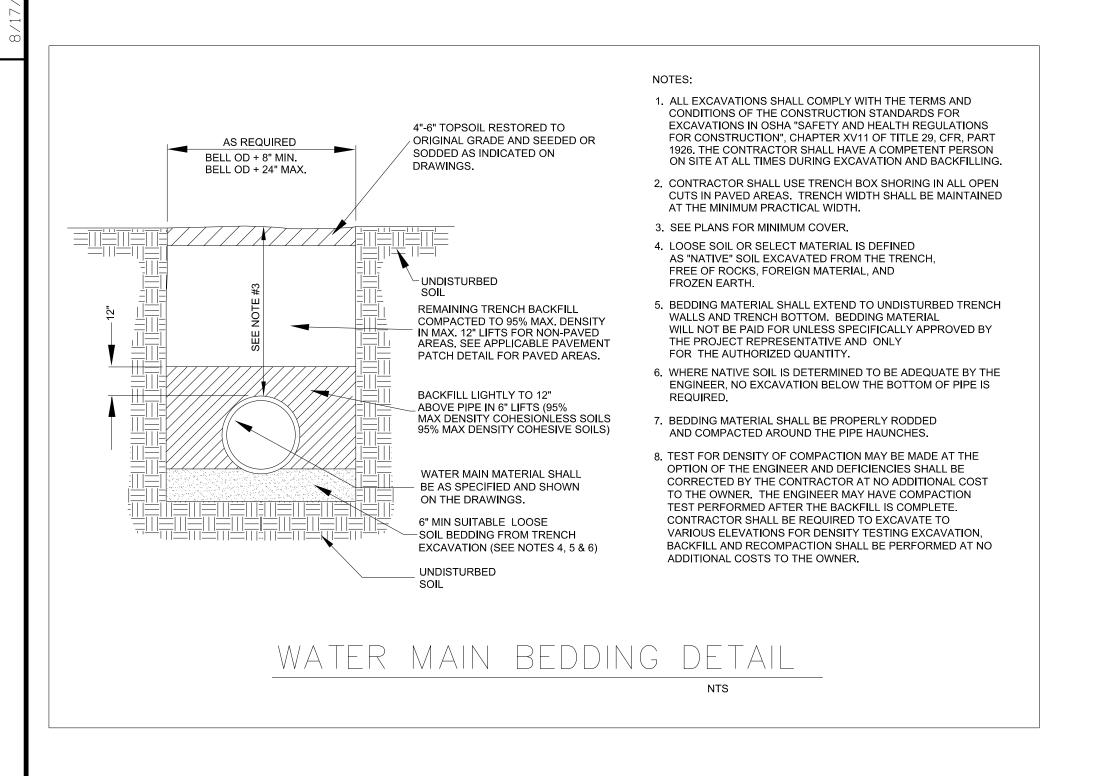
- 1. THE PROPOSED UTILITY CONSTRUCTION SHALL MEET THE APPLICABLE REQUIREMENTS OF THE NC DEPARTMENT OF TRANSPORTATION'S "STANDARD SPECIFICATIONS FOR ROADS AND STRUCTURES" DATED JANUARY 2018.
- 2. THE EXISTING UTILITIES BELONG TO CITY OF MARION
- 3. ALL WATER LINES TO BE INSTALLED WITHIN COMPLIANCE OF THE RULES AND REGULATIONS OF THE NORTH CAROLINA DEPARTMENT OF ENVIRONMENTAL QUALITY, DIVISION OF WATER RESOURCES. 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, WQ PERMITTING, PERCS UNIT. 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.

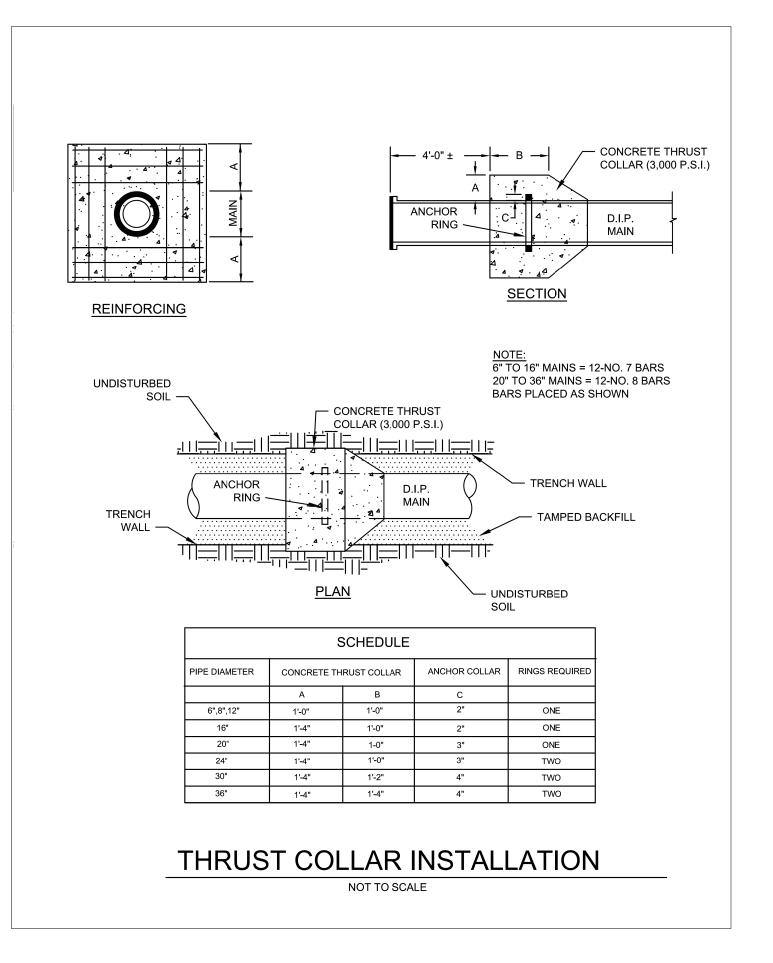
- 6. THE PLANS DEPICT THE BEST AVAILABLE INFORMATION FOR THE LOCATION, SIZE, AND TYPE OF MATERIAL FOR ALL EXISTING UTILITIES. MAKE INVESTIGATIONS FOR DETERMINING THE EXACT LOCATION, SIZE, AND TYPE MATERIAL OF THE EXISTING FACILITIES AS NECESSARY FOR THE CONSTRUCTION OF THE PROPOSED UTILITIES AND FOR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

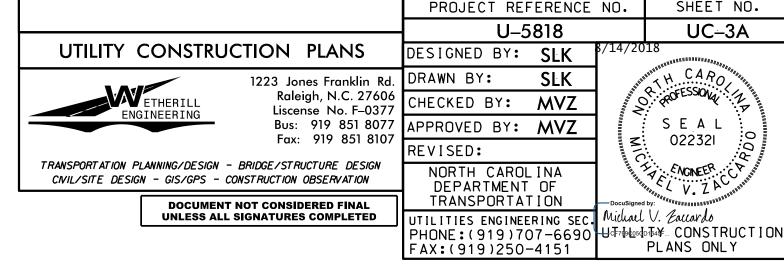
1. PROPOSED WATER LINE FROM -WL- LINE STATION 11+30 +/- TO 11+53 +/- SHALL BE 12" CL51 R.J. DIP, INSTALLED BY OPEN CUT METHOD. AND FROM -WL- LINE STATION 11+53 +/- TO 13+12 +/- SHALL BE 16" DR9 (DIPS)HDPE, INSTALLED BY DIRECTIONAL DRILL METHOD, AND FROM -WL-LINE STATION 13+12 +/- TO 17+30 +/-SHALL BE 12" CL51 R.J. DIP, INSTALLED BY OPEN CUT METHOD.

PROJECT SPECIFIC NOTES:

- 2. PROPOSED SEWER LINE FROM -SL- LINE STATION 11+21 +/- TO 11+48 +/- SHALL BE 8" CL51 R.J. DIP, INSTALLED BY OPEN CUT METHOD. AND FROM -SL- LINE STATION 11+48 +/- TO 13+13 +/- SHALL BE 10" DR9 (DIPS)HDPE, INSTALLED BY DIRECTIONAL DRILL METHOD, AND FROM -SL-LINE STATION 13+13 +/- TO 14+17 +/-SHALL BE 8" CL51 R.J. DIP, INSTALLED BY OPEN CUT METHOD.
- 3. 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.
- 4. IF HDPE PIPE IS INSTALLED BY DIRECTIONAL DRILL. IT SHALL BE FILLED WITH WATER AND NOT BE CONNECTED TO ANY OTHER PIPE OR FITTINGS FOR ONE WEEK FROM THE TIME OF INSTALLATION.







UTILITY CONSTRUCTION

FINAL DESIGN

NOT RELEASED

FOR CONSTRUCTION

