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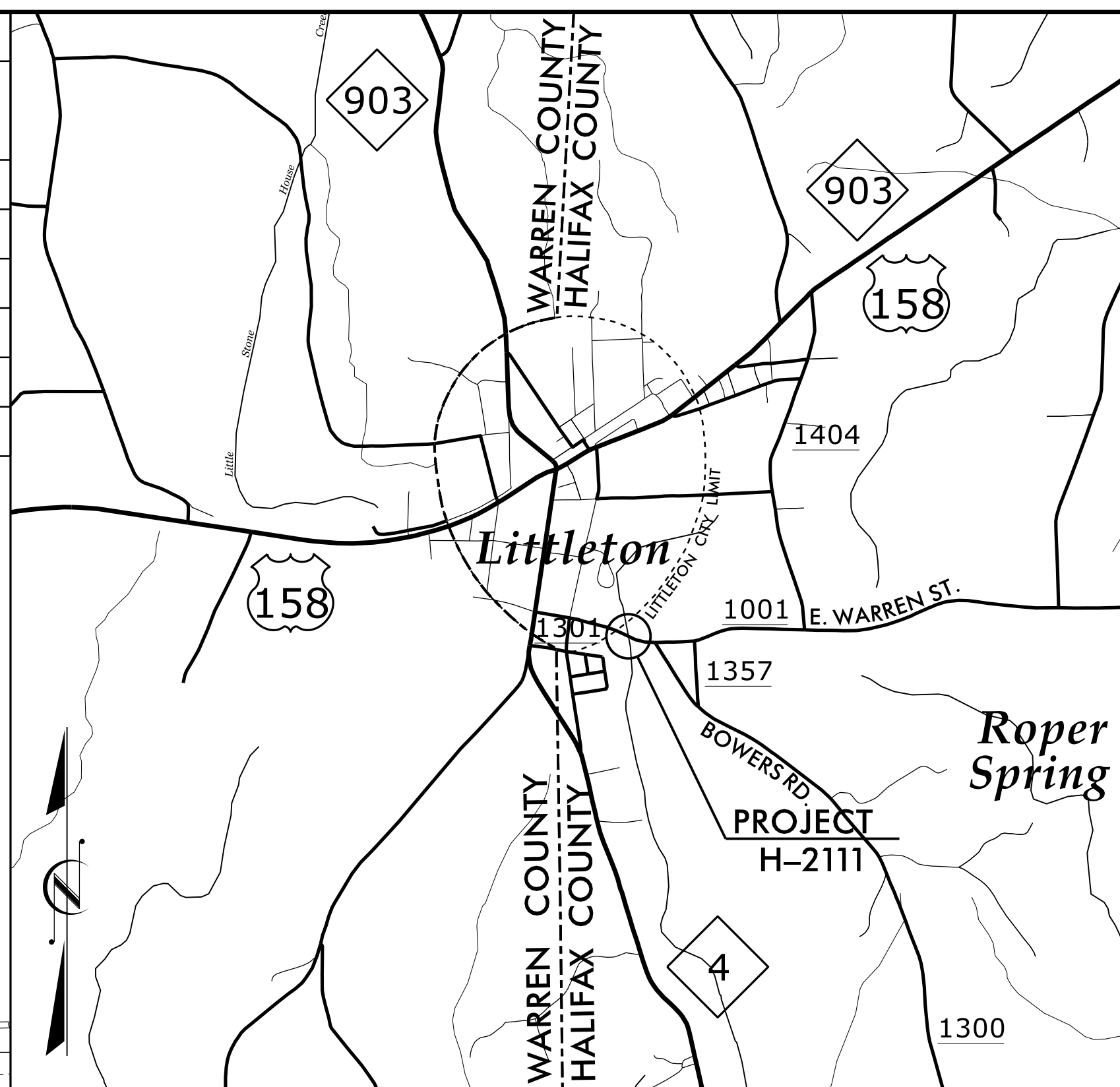
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and sealed by the individuals whose names and license
numbers appear on each page, on the dates appearing
with their signature on that page.**

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

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GUARDRAIL DATA						
STATION		LOC	LENGTH	DIST FROM CL	GREU TL-3	NOTES
BEGIN	END					
11+66.5	14+29	LT	262.5	13.5	2	
11+92	14+29.5	RT	237.5	13.5	2	
SUBTOTAL			500.0		4	
GREU TL-3 4*50			-200.0			
TOTAL			300.0		4	
10 ADDITIONAL GUARDRAIL POSTS						

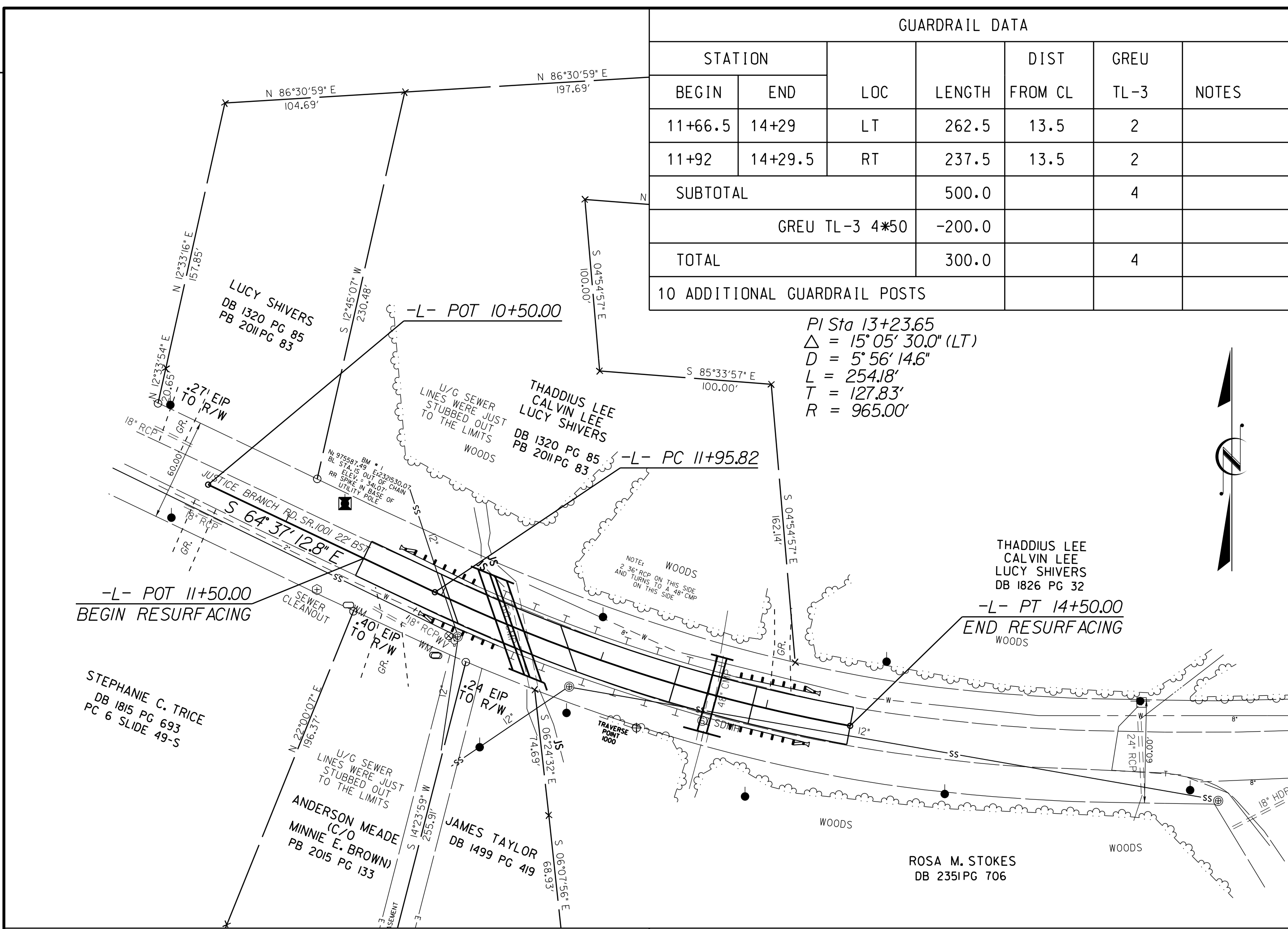
$PI Sta 13+23.65$
 $\Delta = 15^{\circ}05'30.0'' (LT)$
 $D = 5^{\circ}56'14.6''$
 $L = 254.18'$
 $T = 127.83'$
 $R = 965.00'$



STATE OF NORTH CAROLINA
DIVISION OF HIGHWAYS
HALIFAX COUNTY
 LOCATION: SR 1001 OVER BUTTERWOOD CREEK
 TYPE OF WORK: REMOVE AND REPLACE PIPES

STATE	STATE PROJ. NO.	SHEET NO.
N.C.	17BP.4.C.2	1
STATE PROJ. NO.	F. A. PROJ. NO.	DESCRIPTION
17BP.4.C.2		PE.CONST.

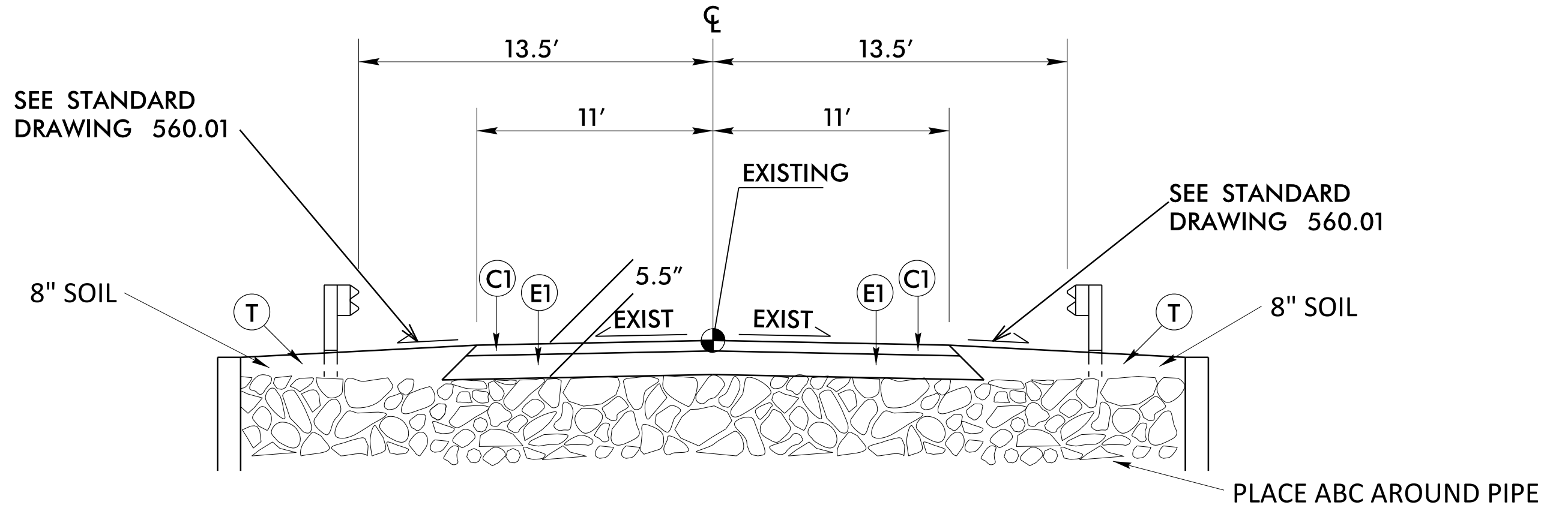
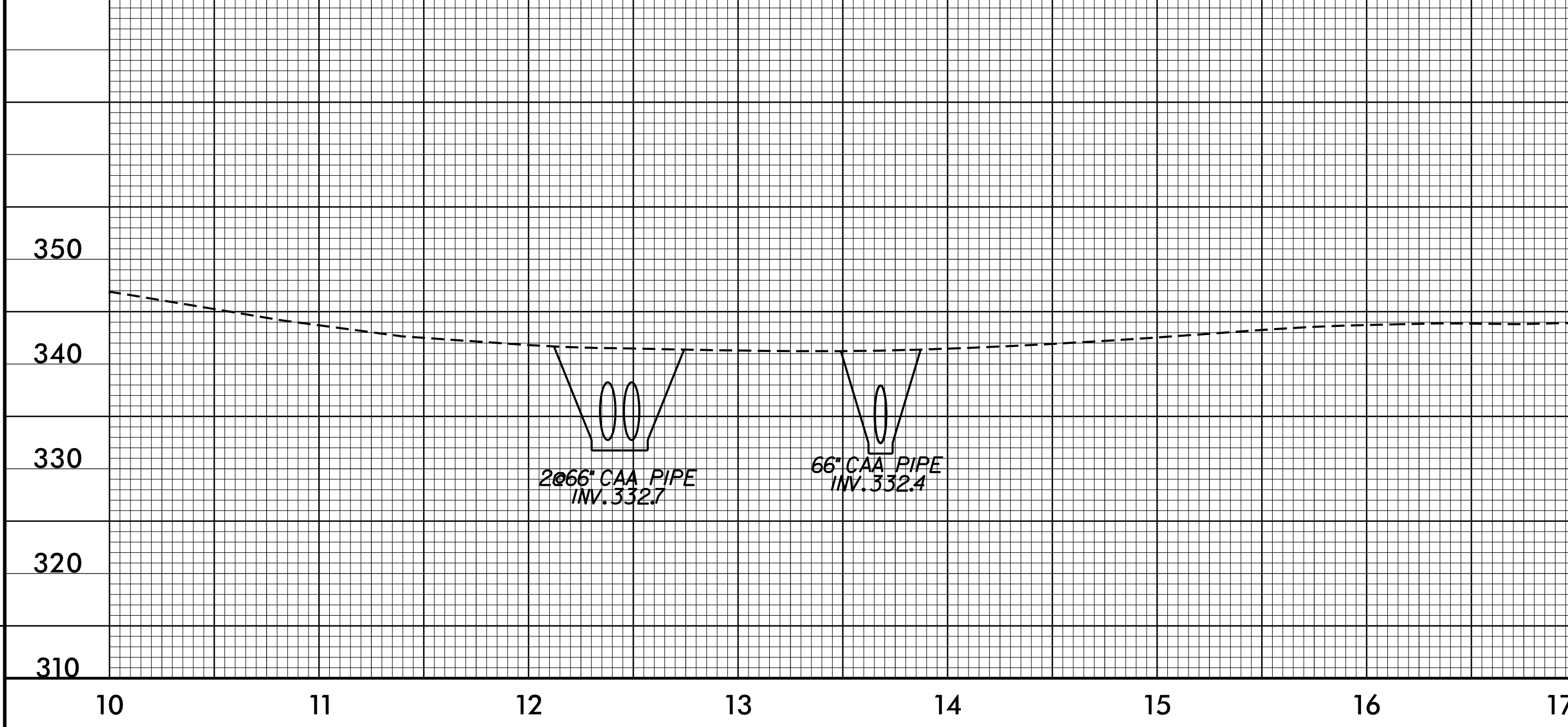
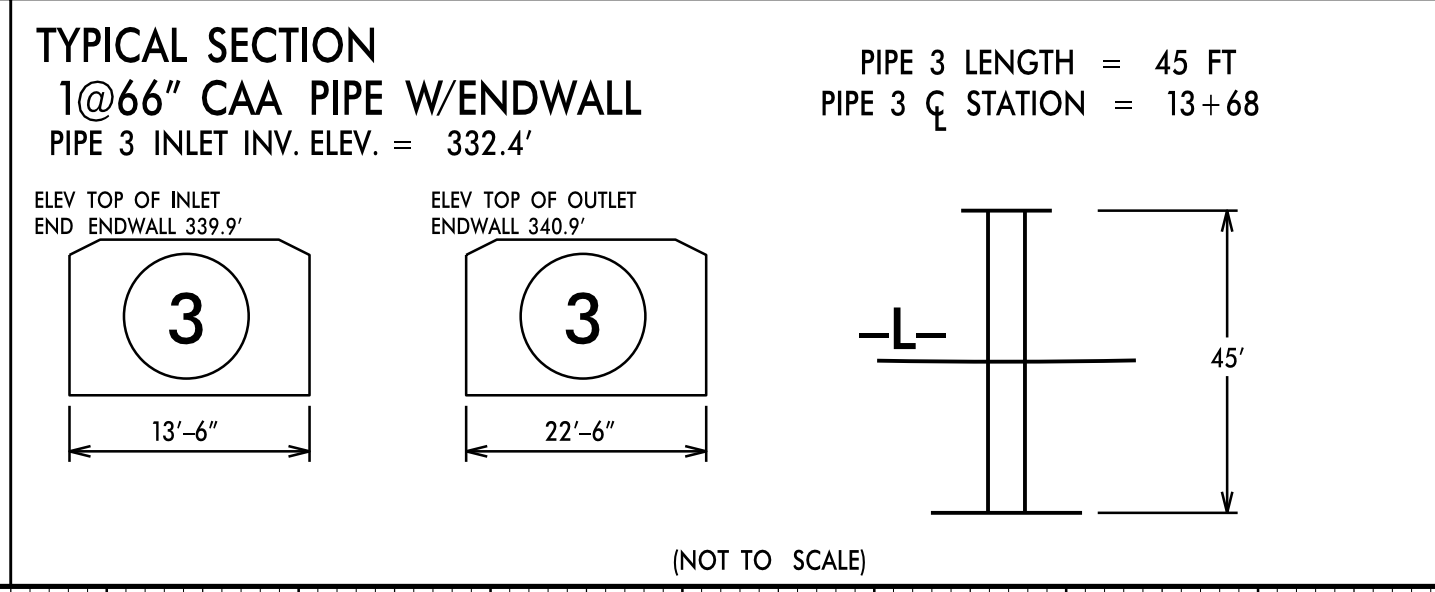
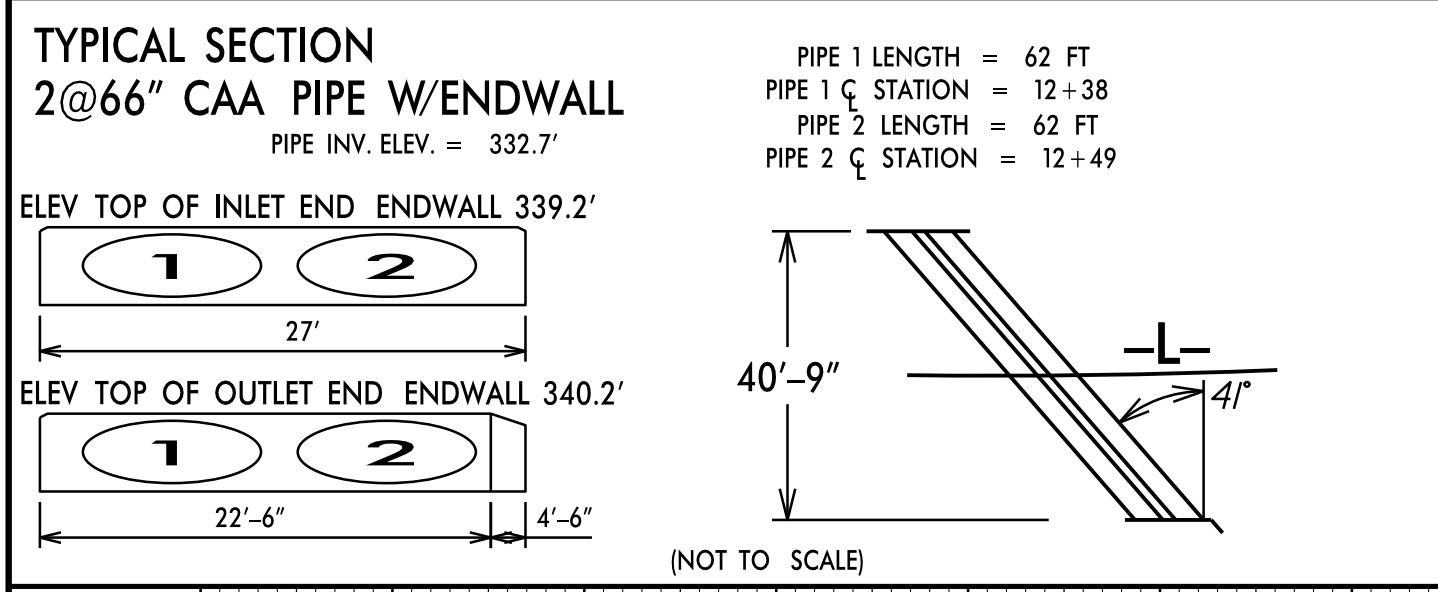
ROADWAY DESIGN ENGINEER: *North Carolina Professional Seal 040774*
 HYDRAULICS ENGINEER (PIPE SIZE): *North Carolina Professional Seal 34349*
 DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED



VICINITY MAP

PAVEMENT SCHEDULE	
C1	PROP. APPROX. 1.5" ASPHALT CONCRETE SURFACE COURSE, TYPE S9.5B, AT AN AVERAGE RATE OF 165 LBS. PER SQ. YARD.
E1	PROP. APPROX. 4" ASPHALT CONCRETE BASE COURSE, TYPE B25.0C, AT AN AVERAGE RATE OF 456 LBS. PER SQ. YARD.
T	EARTH MATERIAL

NOTE: PAVEMENT EDGE SLOPES ARE 1:1 UNLESS SHOWN OTHERWISE.



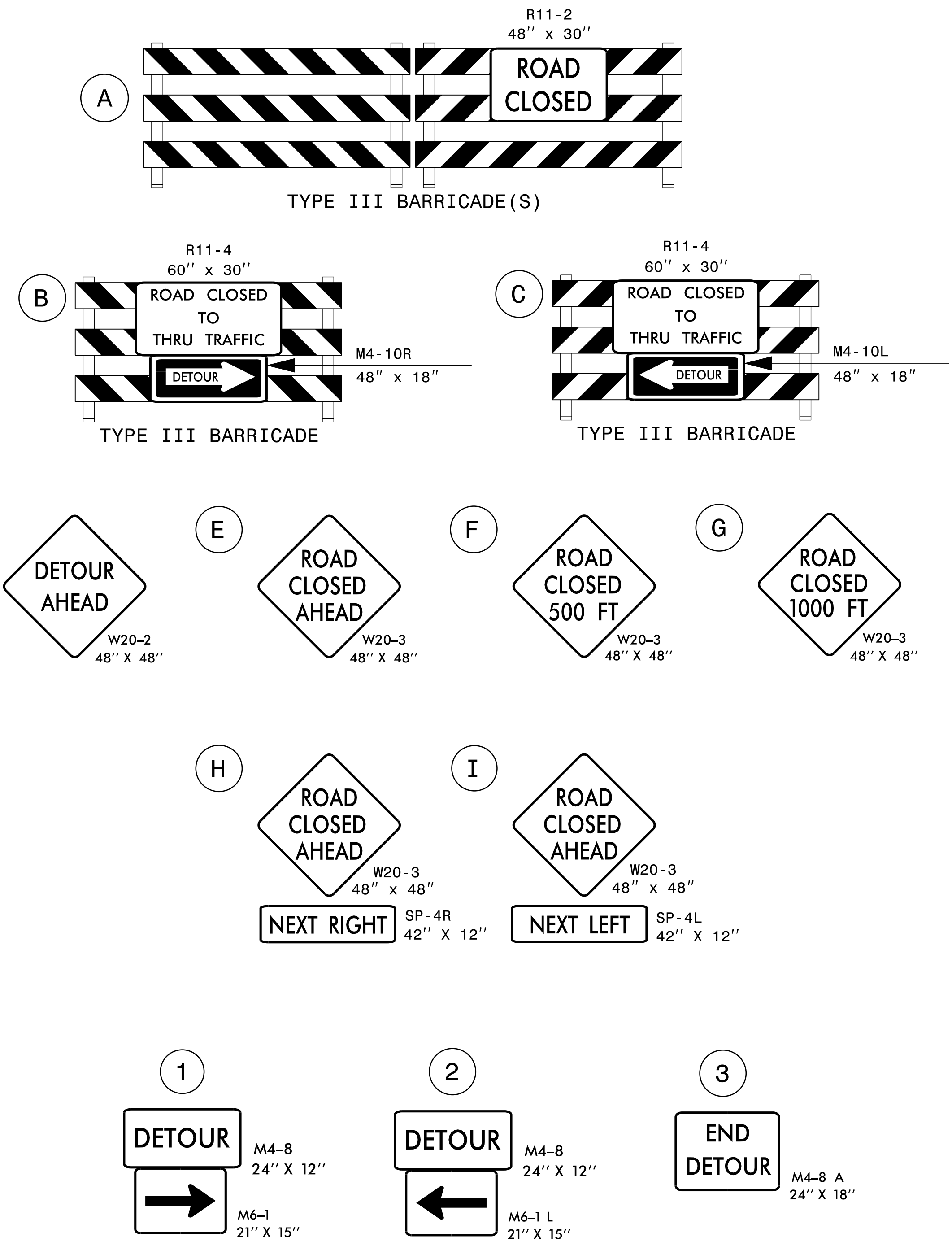
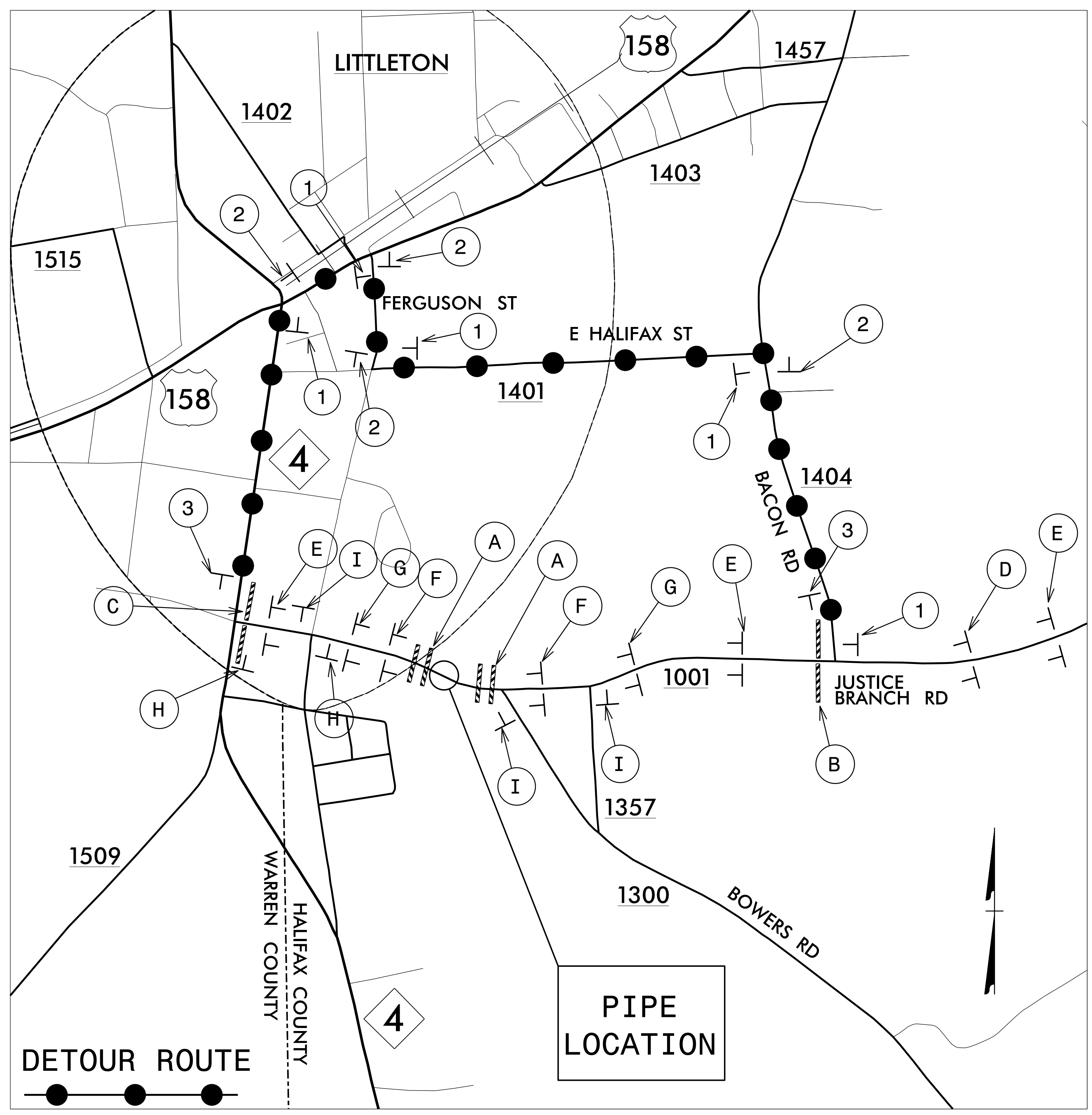
TYPICAL SECTION NO. 1

USE TYPICAL SECTION NO. 1
 -L- 12+05 TO 12+80
 -L- 13+45 TO 13+92

NOTE: RESURFACE WITH 1.5" S9.5B FROM -L- 11+50 TO 14+50

REVISIONS

17-SEP-2018 15:44
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LEGEND

TRAFFIC CONTROL DEVICES

BARRICADE (TYPE III)

TEMPORARY SIGNING

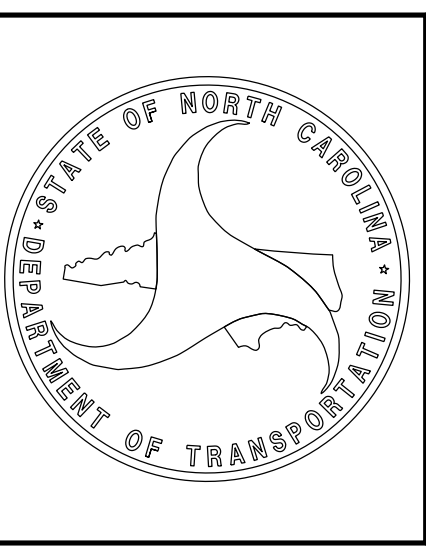
STATIONARY SIGN

NOTES:
 TRAFFIC CONTROL DEVICES (A) THROUGH (I) SHALL BE INSTALLED ACCORDING TO RSD 1101.03, SHEET 1 OF 9.
 TRAFFIC CONTROL DEVICES (1) THROUGH (3) SHALL BE INSTALLED AS SHOWN ON PLAN OR AS DIRECTED BY THE ENGINEER.

APPROVED: *Herwood H. Gainey III*
 DATE: 9/17/2018

Seal of Herwood H. Gainey III, Professional Engineer, No. 040774, State of North Carolina.

DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED

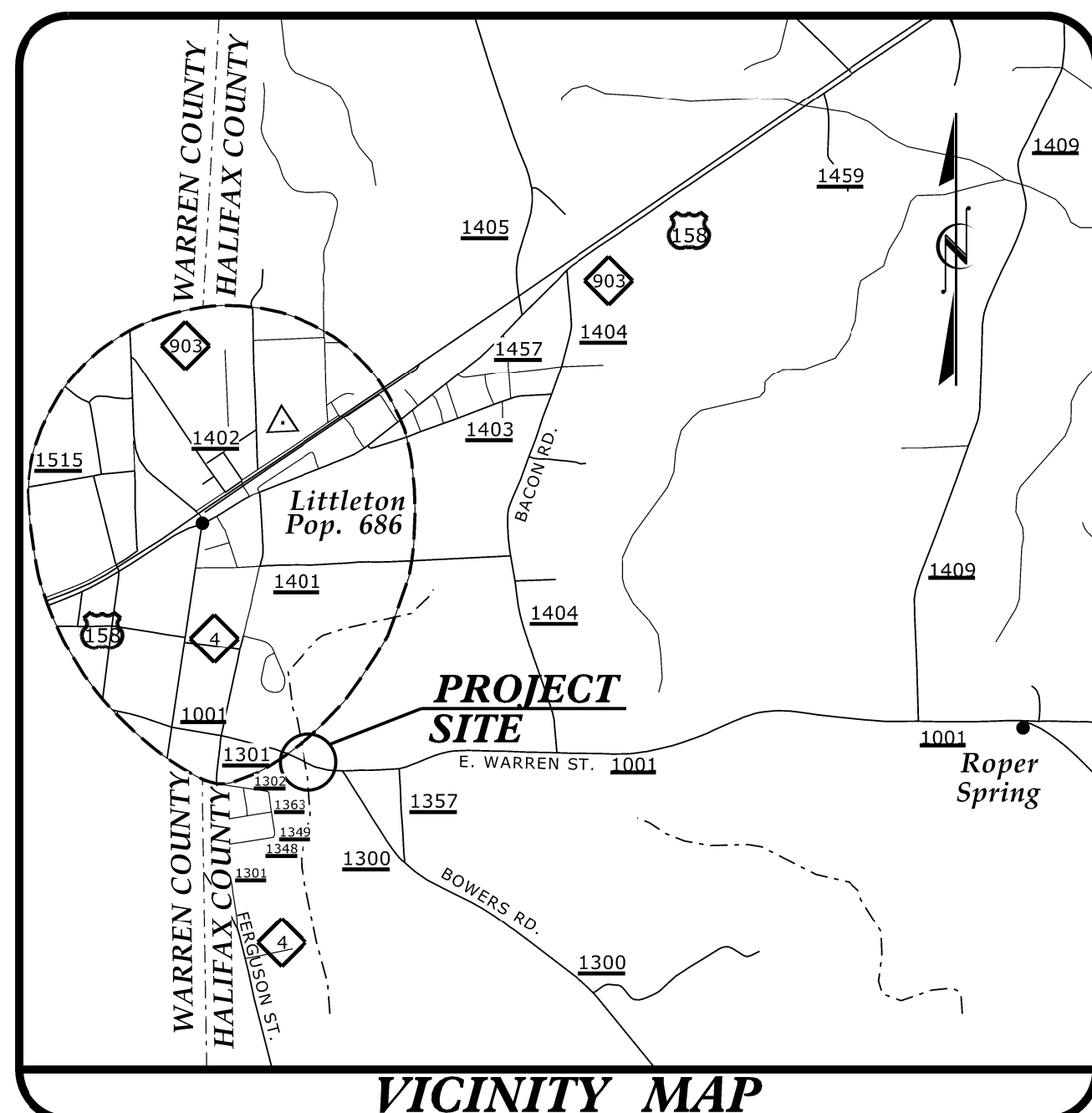


OFF-SITE DETOUR ROUTE AND BARRICADE PLACEMENT

06-SEP-2018 10:52
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 \$\$\$USERNAME\$\$\$

PROJECT: 17BP.4.C.2

CONTRACT:



VICINITY MAP

STATE OF NORTH CAROLINA
DIVISION OF HIGHWAYS

**UTILITY CONSTRUCTION PLANS
HALIFAX COUNTY**

**LOCATION: SR 1001 (JUSTICE BRANCH ROAD)
OVER BUTTERWOOD CREEK**

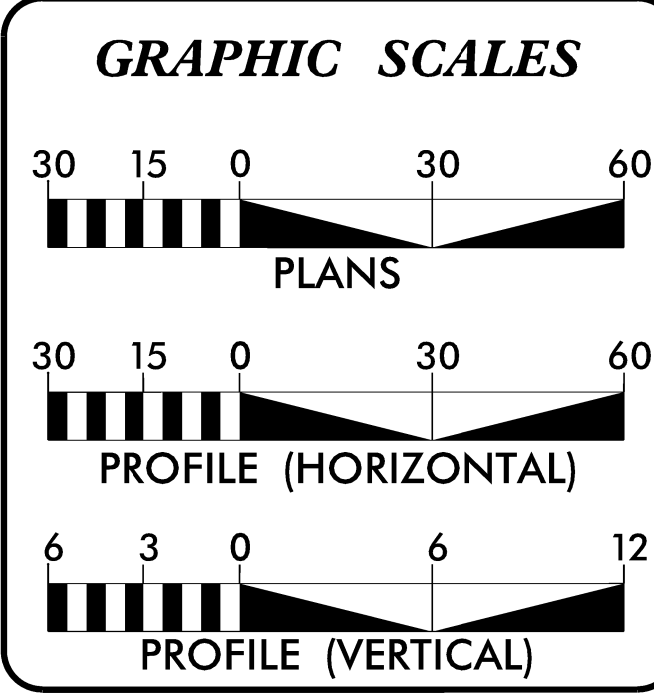
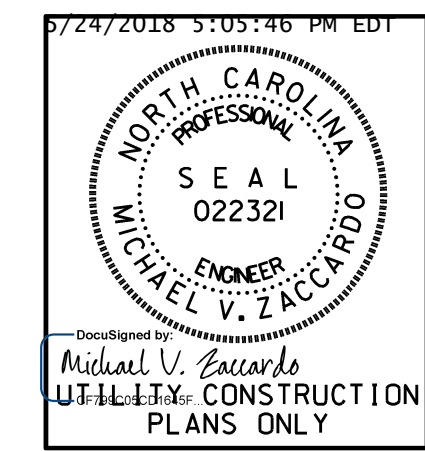
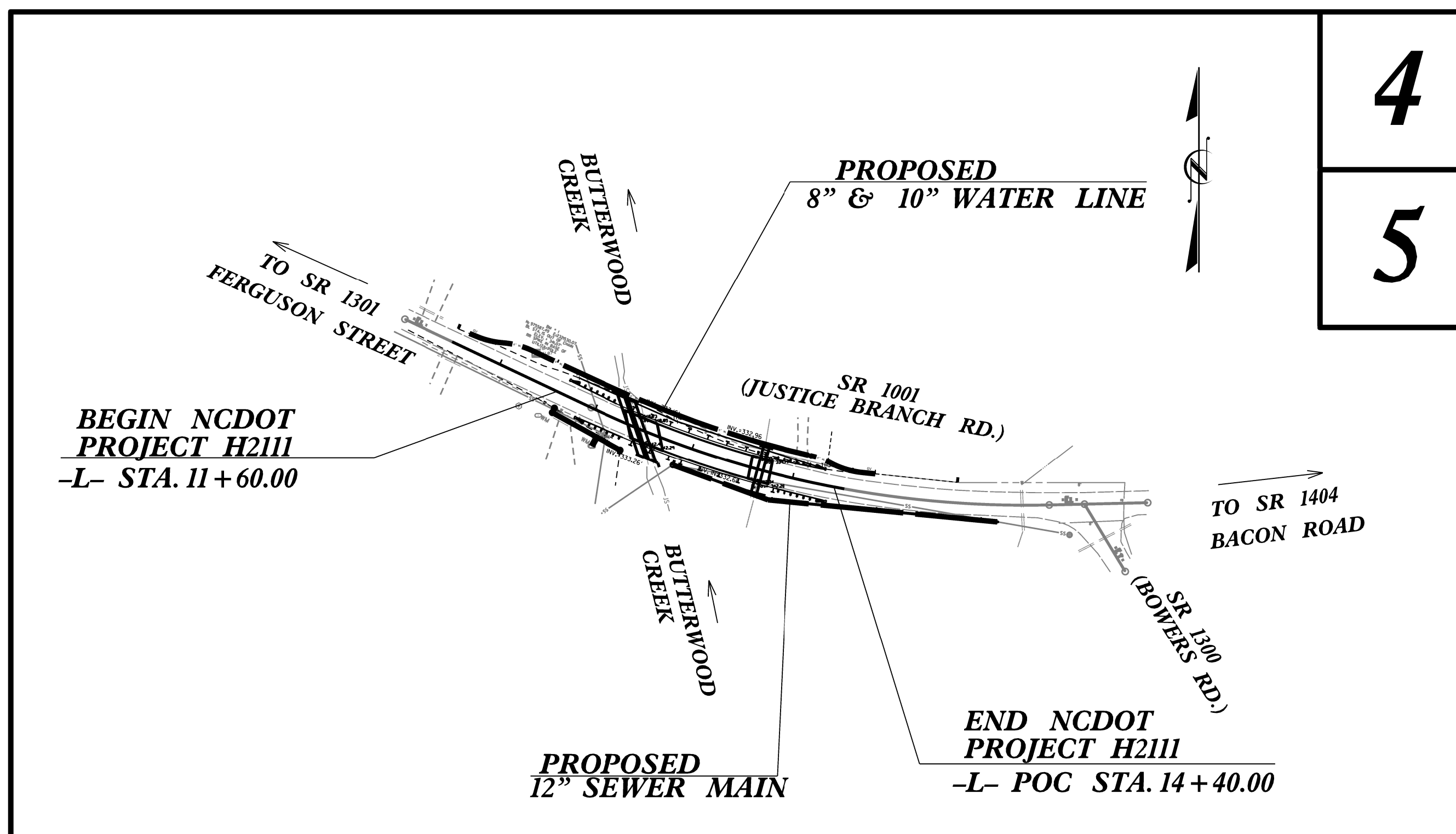
TYPE OF WORK: WATER LINE AND GRAVITY SEWER MAIN CONSTRUCTION

T.I.P. NO.	SHEET NO.
17BP.4.C.2	UC-1

WETHERILL ENGINEERING
1223 Jones Franklin Rd.
Raleigh, N.C. 27606
License No. F-0377
Bus: 919 851 8077
Fax: 919 851 8107

TRANSPORTATION PLANNING/DESIGN - BRIDGE/STRUCTURE DESIGN
CIVIL/SITE DESIGN - GIS/GPS - CONSTRUCTION OBSERVATION

FINAL DESIGN
RELEASE
FOR CONSTRUCTION



INDEX OF SHEETS

SHEET NO.	DESCRIPTION
UC-1	TITLE SHEET
UC-2	SYMBOLGY SHEET
UC-3	GENERAL NOTES SHEET
UC-3A	DETAIL SHEET
UC-4	PLAN & PROFILE SHEET
UC-5	PLAN & PROFILE SHEET

WATER AND SEWER OWNERS ON PROJECT

(1) HALIFAX COUNTY PUBLIC UTILITIES (WATER)
(2) TOWN OF LITTLETON (SEWER)

Prepared for: **DIVISION OF HIGHWAYS
DIVISION FOUR**
in the Office of:

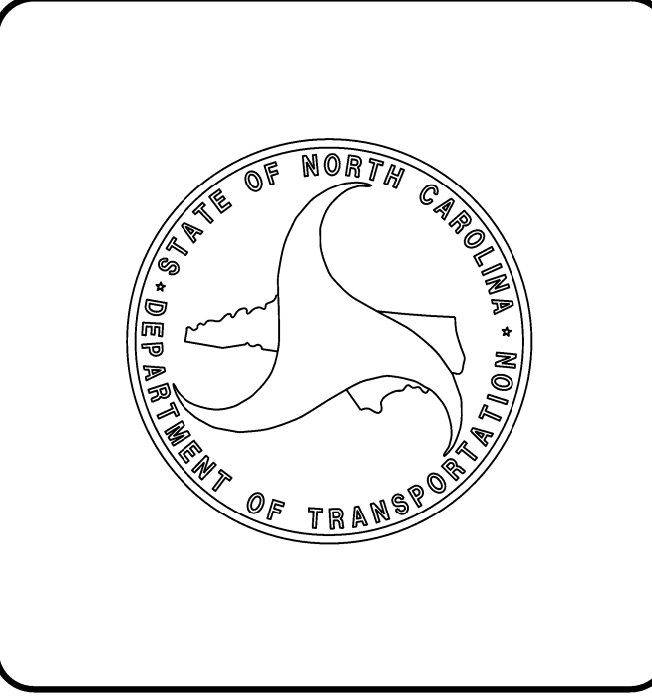
WETHERILL ENGINEERING
2018 STANDARD SPECIFICATIONS

RIGHT OF WAY DATE: EDWARD G. WETHERILL, PE
PROJECT ENGINEER

LETTING DATE: GREG S. PURVIS, PE
PROJECT DESIGN ENGINEER

NCDOT CONTACT: MICHAEL V. ZACCARDO, PE
UTILITY DESIGN ENGINEER

COREY MCLAMB, PE
DIVISION 4 CONSTRUCTION ENGINEER



STATE OF NORTH CAROLINA
DIVISION OF HIGHWAYS

UTILITIES PLAN SHEET SYMBOLS

PROPOSED WATER SYMBOLS

Water Line (Sized as Shown)	
11¼ 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	
Remove Fire Hydrant	REM FH
Water Meter	
Relocate Water Meter	
Remove Water Meter	REM WM
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		*Underground Power Line	
Telephone Pole		*Underground Telephone Cable	
Joint Use Pole		*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		Aboveground Gas Pipeline	
Power Manhole		*Underground Water Line	
Telephone Manhole		Aboveground Water Line	
Sanitary Sewer Manhole		*Underground Gravity Sanitary Sewer Line	
Hand Hole for Cable		Aboveground Gravity Sanitary Sewer Line	
Power Transformer		*Underground SS Forced Main Line	
Telephone Pedestal		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)

5/14/99

3/15/2012
UC2-17BP.4.C.2-ut_rdy4_UC2_psh.dgn
UC2-17BP.4.C.2-ut_rdy4_UC2_psh.dgn

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 HALIFAX 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. 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.



PROJECT SPECIFIC NOTES:

1. PROPOSED WATER LINE FROM -WL- LINE STATION 10+12 +/- TO 10+75 +/- SHALL BE 8" CL51 R.J. DIP, INSTALLED BY OPEN CUT METHOD, AND FROM -WL- LINE STATION 10+75 +/- TO 13+75 +/- SHALL BE 10" DR9 (DIPS)HDPE, INSTALLED BY DIRECTIONAL DRILL METHOD, AND FROM -WL- LINE STATION 13+75 +/- TO 14+22 +/- SHALL BE 8" CL51 R.J. DIP, INSTALLED BY OPEN CUT METHOD.

2. PROPOSED SEWER LINE FROM (EXISTING MH1) -SL- LINE STATION 10+00 +/- TO 10+96 +/- SHALL BE 12" CL51DIP (PROTECTO 401 CERAMIC LINED),INSTALLED BY OPEN CUT METHOD, AND FROM (PROPOSED MH2) -SL- LINE STATION 10+96 +/- TO 13+16 +/- SHALL BE 12" SDR 35 PVC, INSTALLED BY OPEN CUT METHOD (PROPOSED MH3).

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.

	PROJECT REFERENCE NO. 17BP.4.C.2	SHEET NO. UC-3
DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED	DESIGNED BY: SLK	5/24/2018 5:05:46 PM EDT
	DRAWN BY: SLK	
	CHECKED BY: MVZ	
	APPROVED BY: MVZ	
	REVISED:	
	NORTH CAROLINA DEPARTMENT OF TRANSPORTATION UTILITIES ENGINEERING SECTION PHONE: (919) 707-6690 FAX: (919) 250-4151	
		1223 Jones Franklin Rd. Raleigh, N.C. 27606 License No. F-0377 Bus: 919 851 8077 Fax: 919 851 8107
TRANSPORTATION PLANNING/DESIGN - BRIDGE/STRUCTURE DESIGN CIVIL/SITE DESIGN - GIS/GPS - CONSTRUCTION OBSERVATION		

UTILITY CONSTRUCTION

FINAL DESIGN

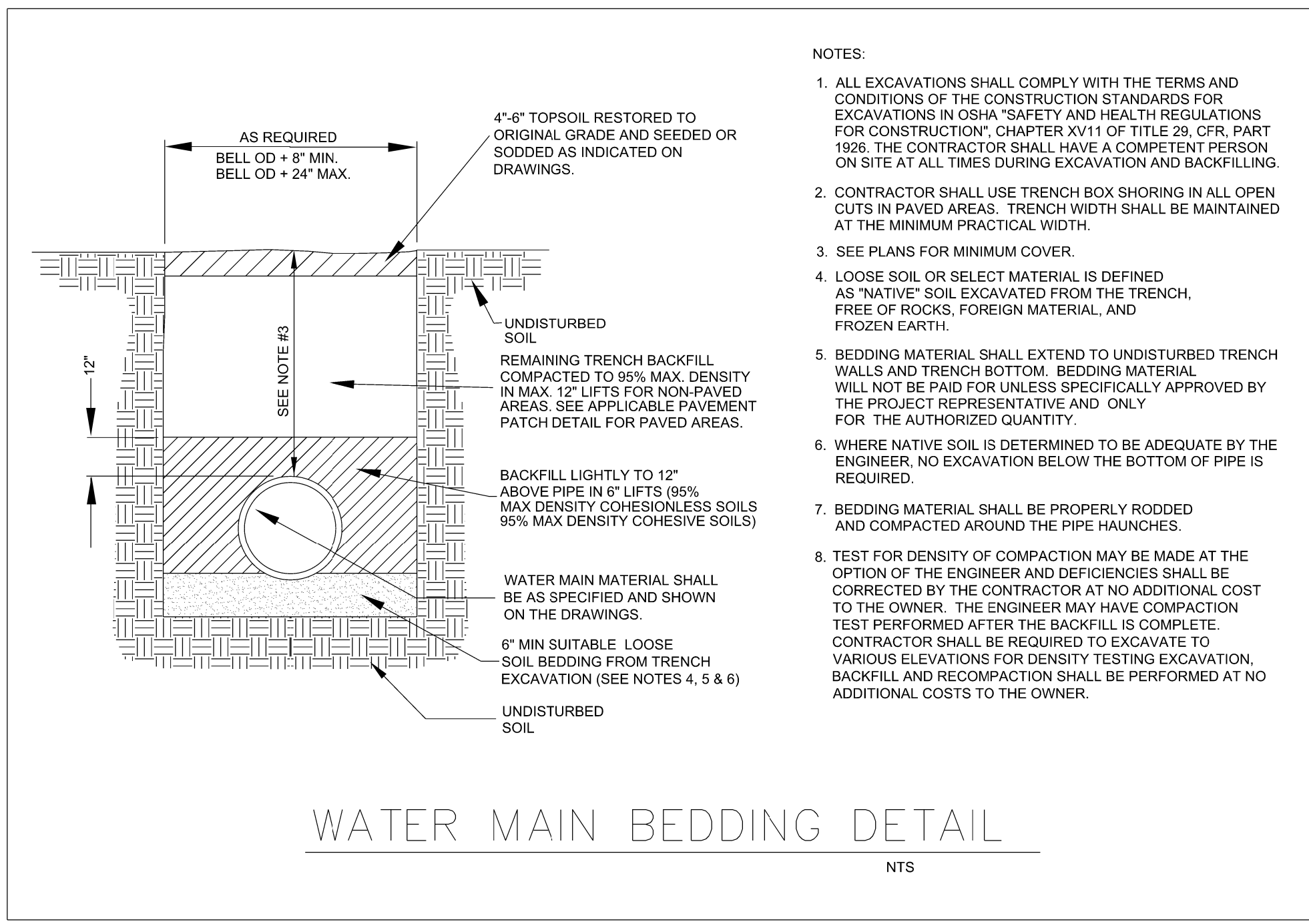
RELEASE
FOR CONSTRUCTION

UTILITY CONSTRUCTION PLANS  1223 Jones Franklin Rd. Raleigh, N.C. 27606 License No. F-0377 Bus: 919 851 8077 Fax: 919 851 8107 TRANSPORTATION PLANNING/DESIGN - BRIDGE/STRUCTURE DESIGN CIVIL/SITE DESIGN - GIS/GPS - CONSTRUCTION OBSERVATION	PROJECT REFERENCE NO. 17BP.4.C.2	SHEET NO. UC-3A
	DESIGNED BY: SLK DRAWN BY: SLK CHECKED BY: MVZ APPROVED BY: MVZ REVISED:	5/24/2018 5:05:46 PM EDT 

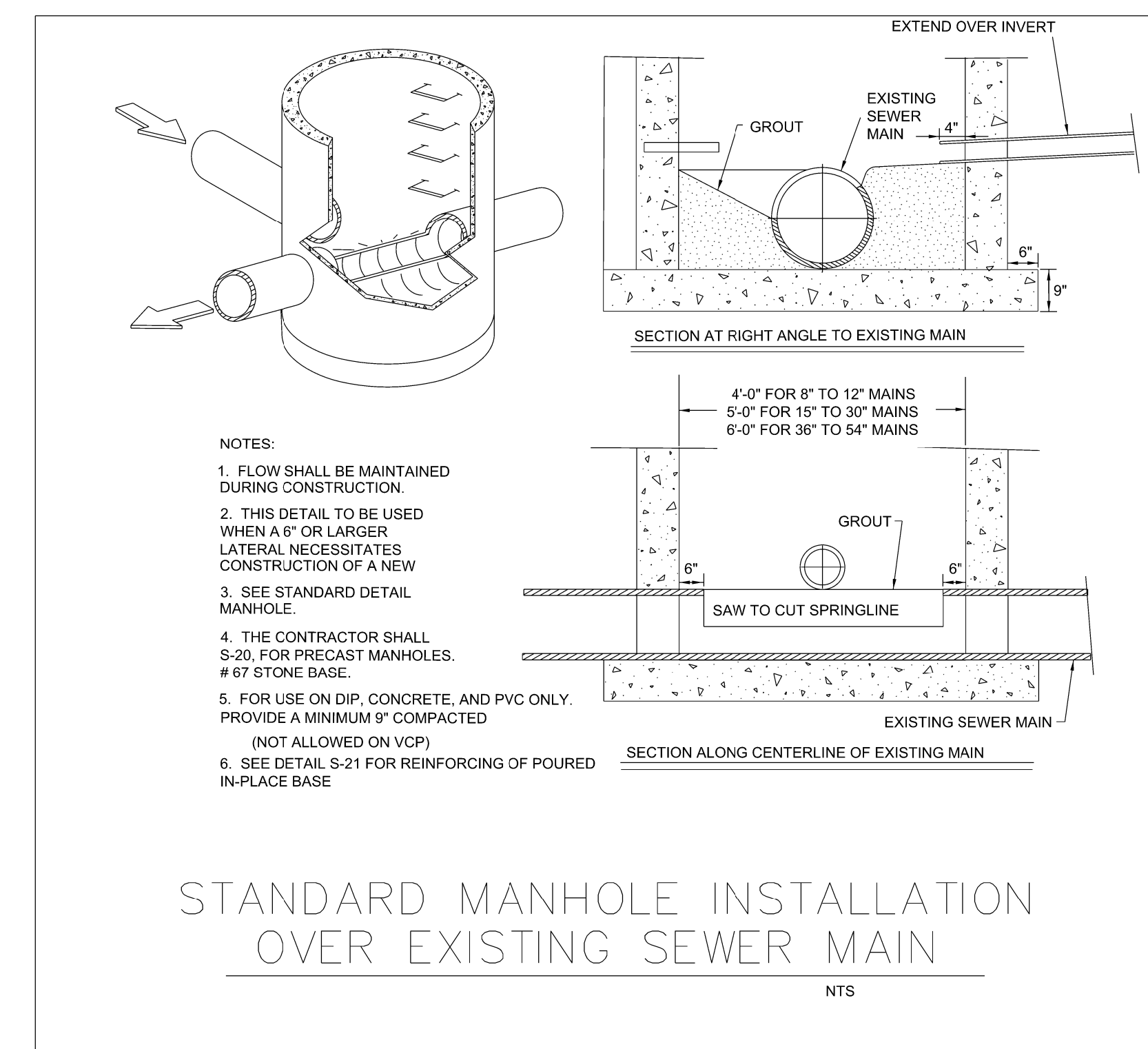
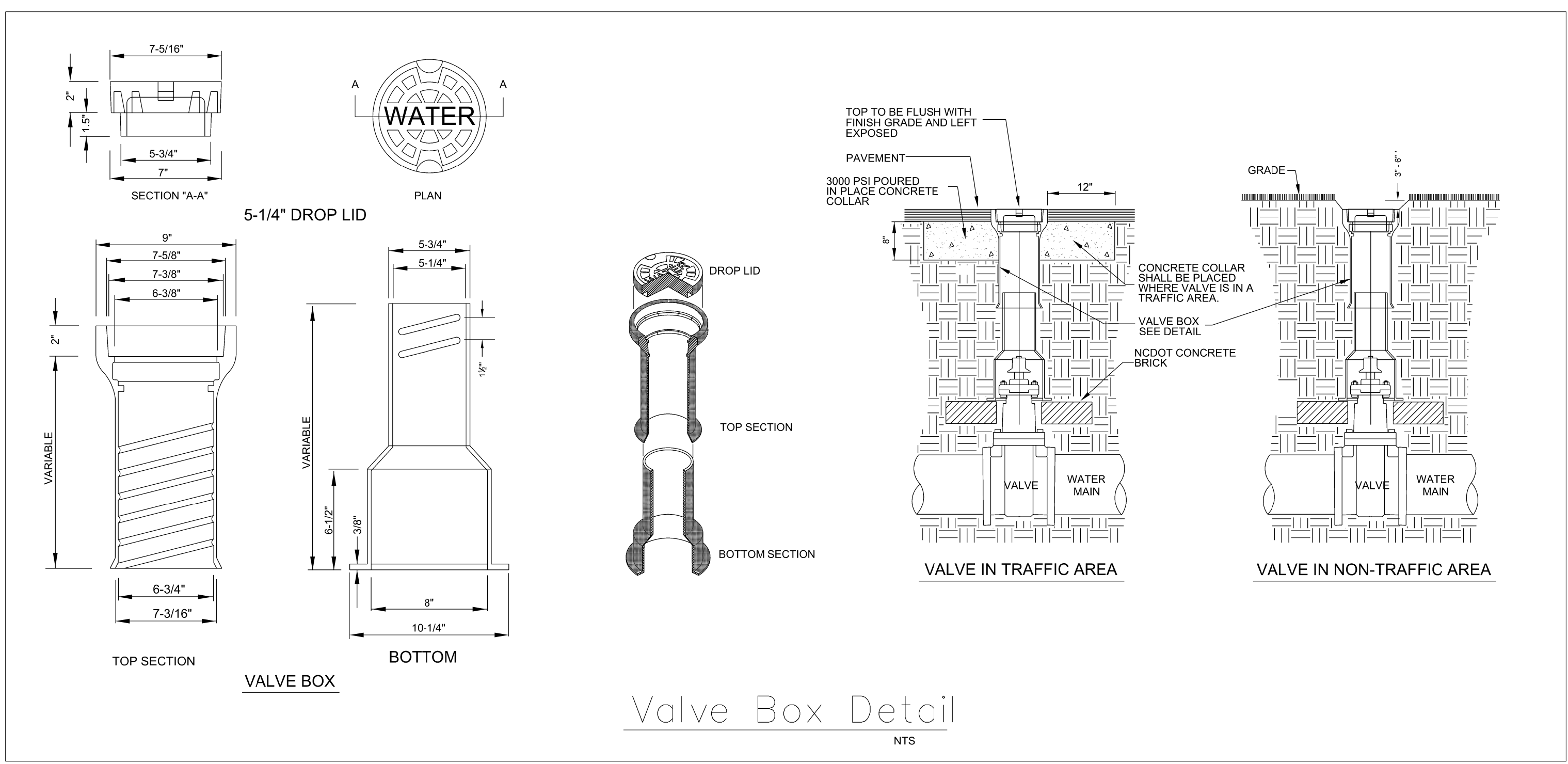
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UTILITY CONSTRUCTION

FINAL DESIGN
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 FOR CONSTRUCTION



- NOTES:
1. ALL EXCAVATIONS SHALL COMPLY WITH THE TERMS AND CONDITIONS OF THE CONSTRUCTION STANDARDS FOR EXCAVATIONS IN OSHA "SAFETY AND HEALTH REGULATIONS FOR CONSTRUCTION", CHAPTER XV11 OF TITLE 29, CFR, PART 1926. THE CONTRACTOR SHALL HAVE A COMPETENT PERSON ON SITE AT ALL TIMES DURING EXCAVATION AND BACKFILLING.
 2. CONTRACTOR SHALL USE TRENCH BOX SHORING IN ALL OPEN CUTS IN PAVED AREAS. TRENCH WIDTH SHALL BE MAINTAINED AT THE MINIMUM PRACTICAL WIDTH.
 3. SEE PLANS FOR MINIMUM COVER.
 4. LOOSE SOIL OR SELECT MATERIAL IS DEFINED AS "NATIVE" SOIL EXCAVATED FROM THE TRENCH, FREE OF ROCKS, FOREIGN MATERIAL, AND FROZEN EARTH.
 5. BEDDING MATERIAL SHALL EXTEND TO UNDISTURBED TRENCH WALLS AND TRENCH BOTTOM. BEDDING MATERIAL WILL NOT BE PAID FOR UNLESS SPECIFICALLY APPROVED BY THE PROJECT REPRESENTATIVE AND ONLY FOR THE AUTHORIZED QUANTITY.
 6. WHERE NATIVE SOIL IS DETERMINED TO BE ADEQUATE BY THE ENGINEER, NO EXCAVATION BELOW THE BOTTOM OF PIPE IS REQUIRED.
 7. BEDDING MATERIAL SHALL BE PROPERLY RODDED AND COMPACTED AROUND THE PIPE HAUNCHES.
 8. TEST FOR DENSITY OF COMPACTION MAY BE MADE AT THE OPTION OF THE ENGINEER AND DEFICIENCIES SHALL BE CORRECTED BY THE CONTRACTOR AT NO ADDITIONAL COST TO THE OWNER. THE ENGINEER MAY HAVE COMPACTION TEST PERFORMED AFTER THE BACKFILL IS COMPLETE. CONTRACTOR SHALL BE REQUIRED TO EXCAVATE TO VARIOUS ELEVATIONS FOR DENSITY TESTING EXCAVATION, BACKFILL AND RECOMPACTION SHALL BE PERFORMED AT NO ADDITIONAL COSTS TO THE OWNER.



PROJECT REFERENCE NO.	SHEET NO.
17BP.4.C.2	UC-4
DESIGNED BY: SLK	9/12/2018
DRAWN BY: SLK	
CHECKED BY: MVZ	
APPROVED BY: MVZ	
REVISED:	
UTILITIES ENGINEERING SEC.	UTILITY CONSTRUCTION
PHONE: (919) 707-6690	PLANS ONLY
FAX: (919) 250-4151	

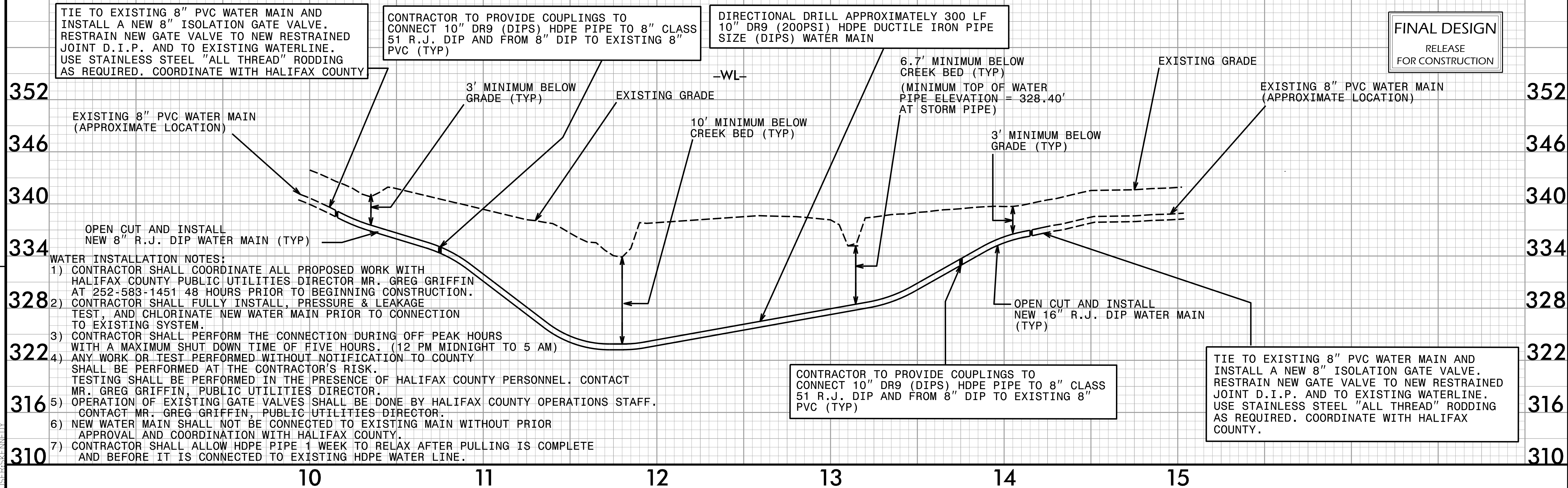
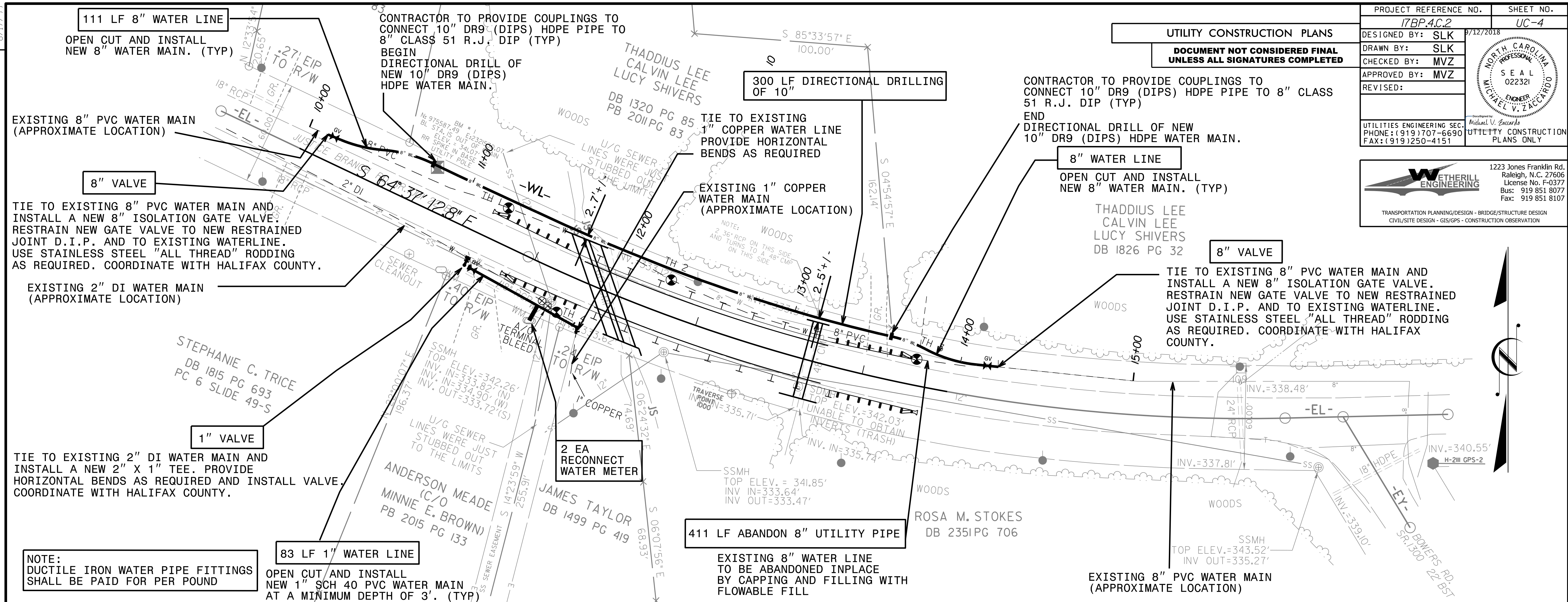
WETHERILL ENGINEERING

1233 Jones Franklin Rd.
Raleigh, N.C. 27606
License No. F-0377
Bus: 919 851 8077
Fax: 919 851 8107

TRANSPORTATION PLANNING/DESIGN - BRIDGE/STRUCTURE DESIGN
CIVIL/SITE DESIGN - GIS/GPS - CONSTRUCTION OBSERVATION

UTILITY CONSTRUCTION PLANS

DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED



- WATER INSTALLATION NOTES:**
- 1) CONTRACTOR SHALL COORDINATE ALL PROPOSED WORK WITH HALIFAX COUNTY PUBLIC UTILITIES DIRECTOR MR. GREG GRIFFIN AT 252-583-1451 48 HOURS PRIOR TO BEGINNING CONSTRUCTION.
 - 2) CONTRACTOR SHALL FULLY INSTALL, PRESSURE & LEAKAGE TEST, AND CHLORINATE NEW WATER MAIN PRIOR TO CONNECTION TO EXISTING SYSTEM.
 - 3) CONTRACTOR SHALL PERFORM THE CONNECTION DURING OFF PEAK HOURS WITH A MAXIMUM SHUT DOWN TIME OF FIVE HOURS. (12 PM MIDNIGHT TO 5 AM)
 - 4) ANY WORK OR TEST PERFORMED WITHOUT NOTIFICATION TO COUNTY SHALL BE PERFORMED AT THE CONTRACTOR'S RISK. TESTING SHALL BE PERFORMED IN THE PRESENCE OF HALIFAX COUNTY PERSONNEL. CONTACT MR. GREG GRIFFIN, PUBLIC UTILITIES DIRECTOR.
 - 5) OPERATION OF EXISTING GATE VALVES SHALL BE DONE BY HALIFAX COUNTY OPERATIONS STAFF. CONTACT MR. GREG GRIFFIN, PUBLIC UTILITIES DIRECTOR.
 - 6) NEW WATER MAIN SHALL NOT BE CONNECTED TO EXISTING MAIN WITHOUT PRIOR APPROVAL AND COORDINATION WITH HALIFAX COUNTY.
 - 7) CONTRACTOR SHALL ALLOW HDPE PIPE 1 WEEK TO RELAX AFTER PULLING IS COMPLETE AND BEFORE IT IS CONNECTED TO EXISTING HDPE WATER LINE.

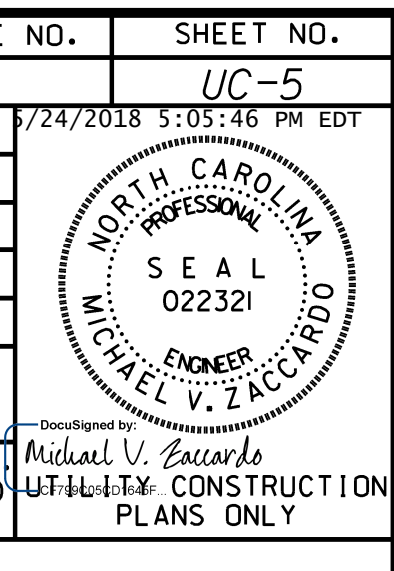
FINAL DESIGN

RELEASE FOR CONSTRUCTION

REVISIONS

8/17/99
9/12/2018
17BP.4.C.2 ut-rdy-UC4_PSH.dgn

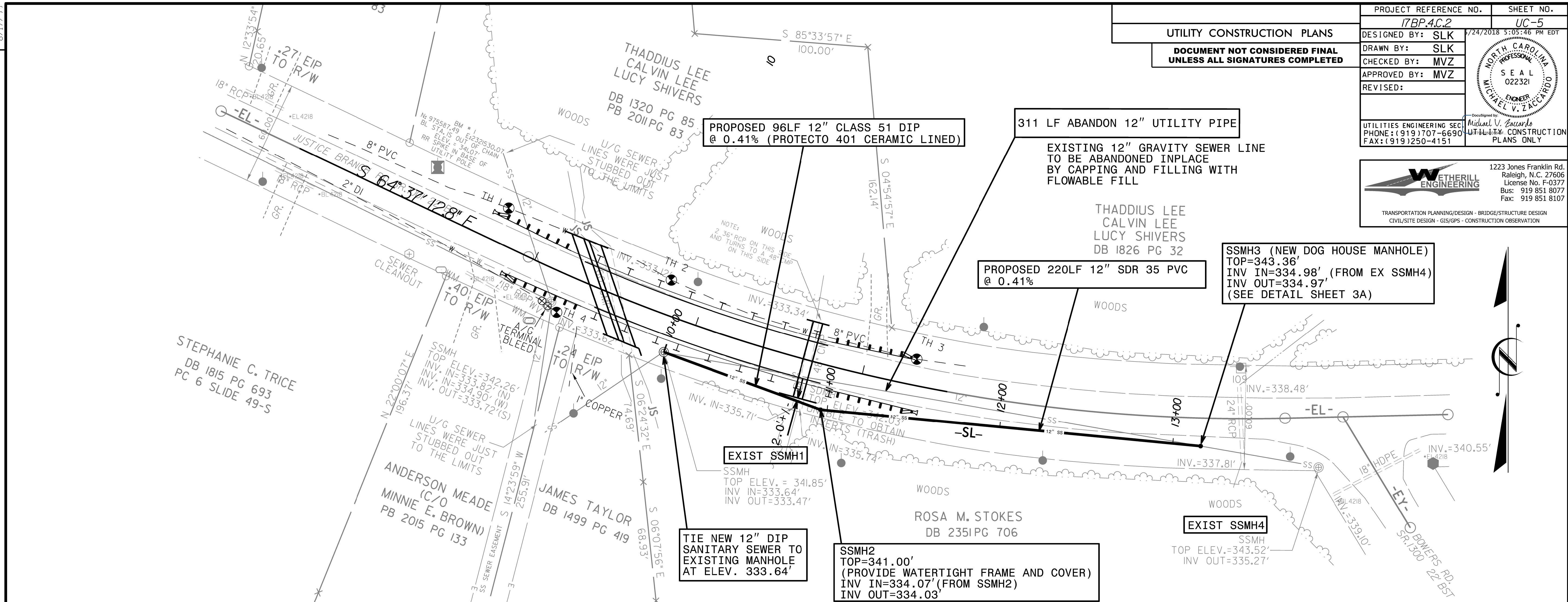
PROJECT REFERENCE NO.		SHEET NO.
17BP.4.C.2		UC-5
DESIGNED BY: SLK		
DRAWN BY: SLK		
CHECKED BY: MVZ		
APPROVED BY: MVZ		
REVISED:		
UTILITIES ENGINEERING SEC.		Michael V. Zaccaro
PHONE: (919) 707-6690		REGISTERED PROFESSIONAL ENGINEER
FAX: (919) 250-4151		022321



WETHERILL ENGINEERING

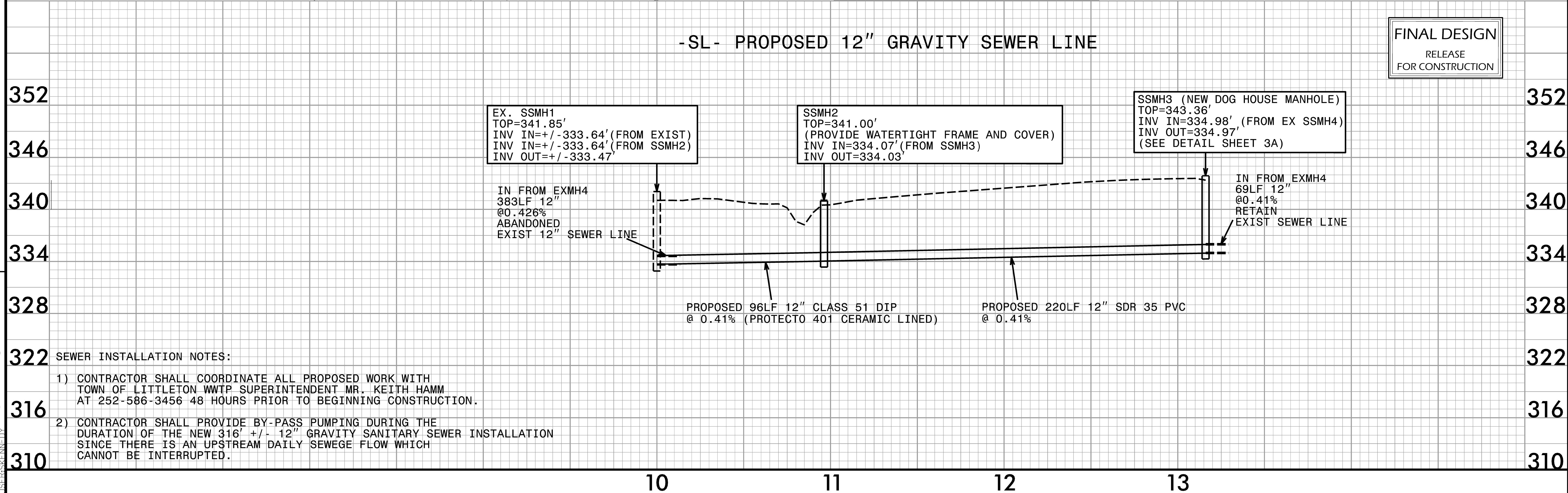
1223 Jones Franklin Rd.
Raleigh, N.C. 27606
License No. F-0377
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TRANSPORTATION PLANNING/DESIGN - BRIDGE/STRUCTURE DESIGN
CIVIL/SITE DESIGN - GIS/GPS - CONSTRUCTION OBSERVATION



-SL- PROPOSED 12" GRAVITY SEWER LINE

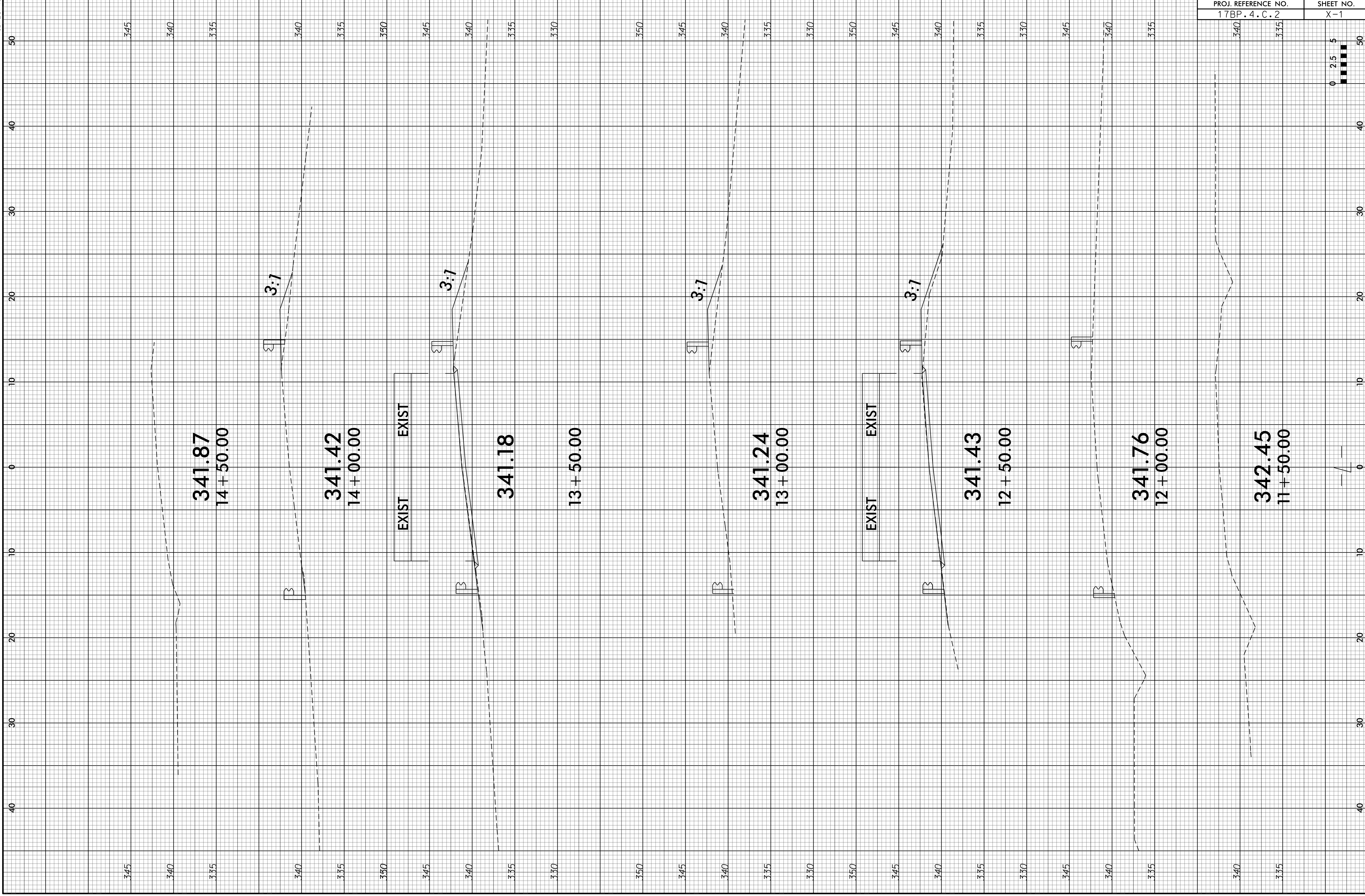
FINAL DESIGN
RELEASE FOR CONSTRUCTION



- SEWER INSTALLATION NOTES:**
- 1) CONTRACTOR SHALL COORDINATE ALL PROPOSED WORK WITH TOWN OF LITTLETON WWTP SUPERINTENDENT MR. KEITH HAMM AT 252-586-3456 48 HOURS PRIOR TO BEGINNING CONSTRUCTION.
 - 2) CONTRACTOR SHALL PROVIDE BY-PASS PUMPING DURING THE DURATION OF THE NEW 316' +/- 12" GRAVITY SANITARY SEWER INSTALLATION SINCE THERE IS AN UPSTREAM DAILY SEWAGE FLOW WHICH CANNOT BE INTERRUPTED.

REVISIONS

5/21/2018 10:24:00 AM 17BP.4.C.2 ut_rdy_UC5_PSH.dgn



PROJ. REFERENCE NO. 17BP.4.C.2	SHEET NO. X-1
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