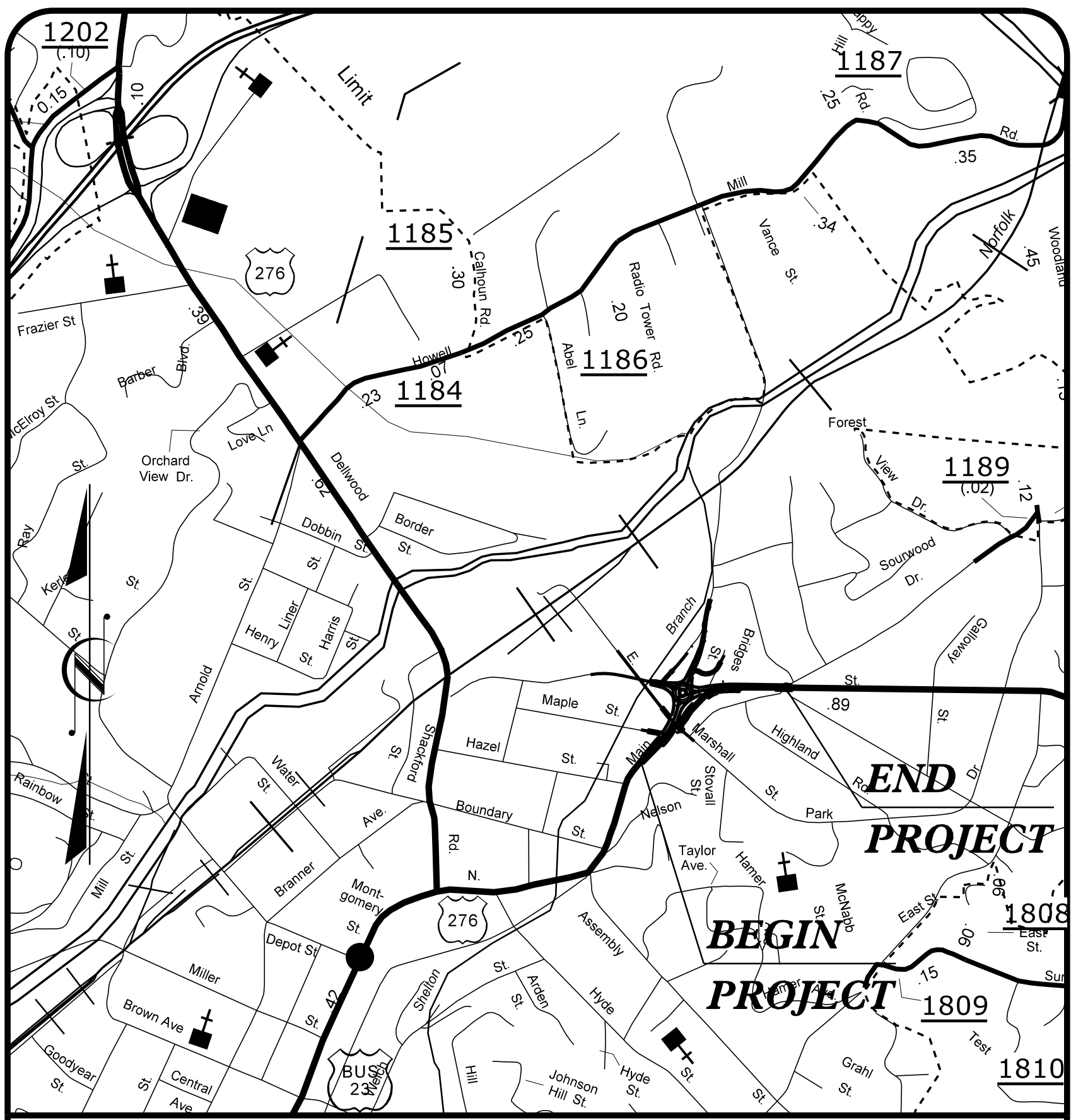


09.08/2019

TIP PROJECT: U-5888



VICINITY MAP

STATE OF NORTH CAROLINA  
DIVISION OF HIGHWAYS

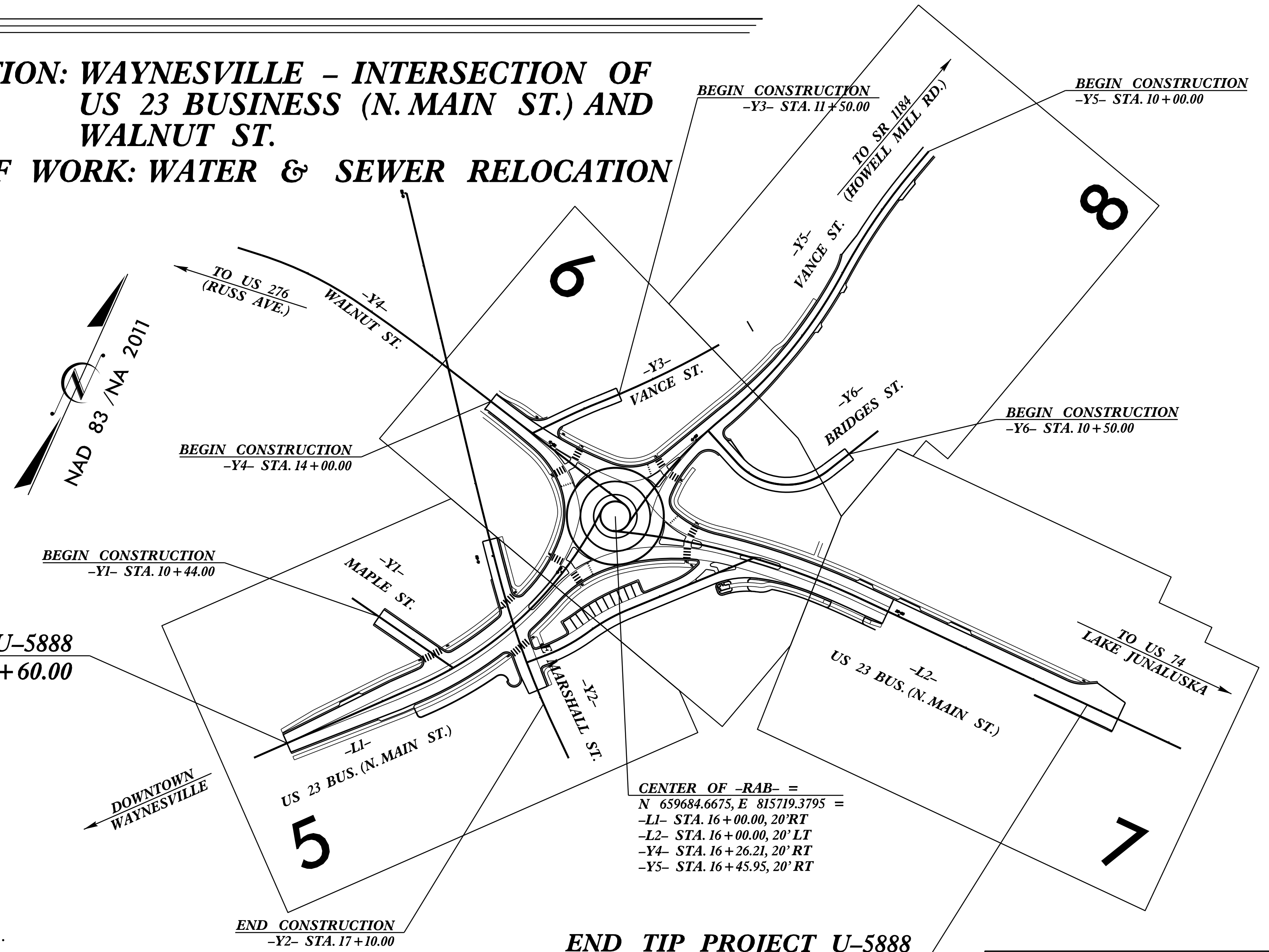
T.I.P. NO.	SHEET NO.
U-5888	UC-1

FINAL DESIGN  
RELEASE  
FOR CONSTRUCTION

UTILITY CONSTRUCTION PLANS  
HAYWOOD COUNTY

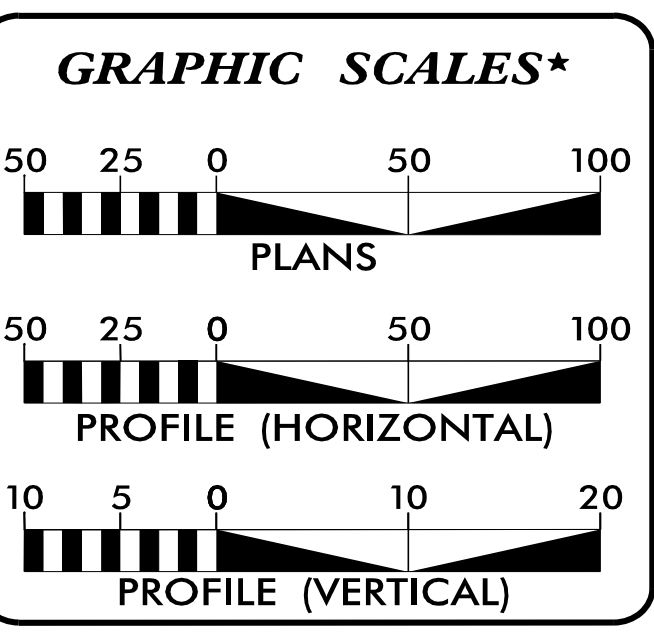
LOCATION: WAYNESVILLE - INTERSECTION OF  
US 23 BUSINESS (N. MAIN ST.) AND  
WALNUT ST.  
TYPE OF WORK: WATER & SEWER RELOCATION

U-5888 - ROUNDABOUT



CLEARING ON THIS PROJECT SHALL BE PERFORMED TO THE LIMITS ESTABLISHED BY METHOD II.  
THIS PROJECT IS WITHIN THE MUNICIPAL BOUNDARIES OF THE TOWN OF WAYNESVILLE.

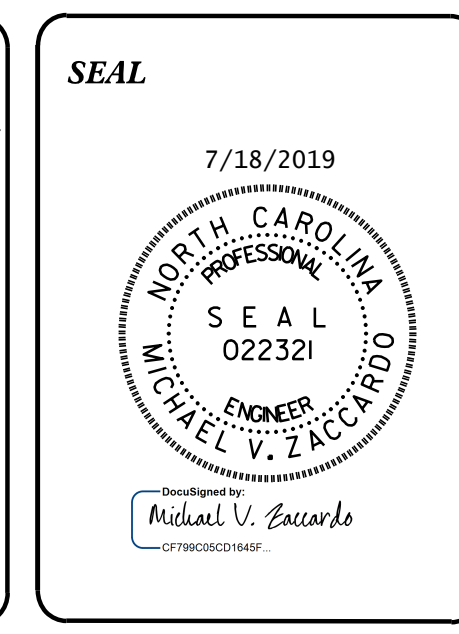
DOCUMENT NOT CONSIDERED FINAL  
UNTIL ALL SIGNATURES ARE COMPLETED



SHEET NO.:	DESCRIPTION:
UC-1	TITLE SHEET
UC-2	LEGEND SHEET
UC-3	GENERAL NOTES SHEET
UC-3A	DETAILS SHEET
UC-4	EXISTING CONDITIONS SHEET
UC-4A	OVERALL PROPOSED UTILITES SHEET
UC-5 THRU UC-8	UC PLAN SHEETS
UC-9 THRU UC-13	UC PLAN & PROFILE SHEETS

**WATER AND SEWER OWNERS ON PROJECT**  
(A) TOWN OF WAYNESVILLE PUBLIC WORKS (WATER & SEWER)

PREPARED IN THE OFFICE OF:  
**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  
MICHAEL V. ZACCARDO, PE UTILITY ENGINEER  
JOHN D. SCHRINER, PLS PROJECT UTILITY COORDINATOR




**DIVISION OF HIGHWAYS UTILITIES UNIT**  
1555 MAIL SERVICES CENTER  
RALEIGH, NC 27699-1555  
PHONE (919) 707-6690  
FAX (919) 250-4151  
BOB GOLDING DIVISION UTILITY ENGINEER  
BILL GREEN UTILITIES COORDINATOR

7/17/2019 11:58:58 AM U:\UCL\Tsh.dgn USER:skennedy

5/14/99

# STATE OF NORTH CAROLINA DIVISION OF HIGHWAYS

## UTILITIES PLAN SHEET SYMBOLS

PROJECT REFERENCE NO. U-5888	SHEET NO. UC-2
DESIGNED BY: SS	
DRAWN BY: SS	
CHECKED BY: MVZ	
APPROVED BY: MVZ	
REVISED:	
NORTH 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

### 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	
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	

### 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	AATUR
End of Information	E.O.I.

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

**FINAL DESIGN**  
RELEASE  
FOR CONSTRUCTION

NOTE  
PAY ITEM

*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)

7/17/2008  
U-5888-ut-r-dwg2-UC2-psh.dgn  
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5/14/19

# 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 THE TOWN OF WAYNESVILLE. CONTACT DIRECTOR OF PUBLIC SERVICES JEFF STINES AT 828-456-3706.

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 SECTION. ALL SANITARY SEWER LINES TO BE INSTALLED WITHIN COMPLIANCE OF THE RULES AND REGULATIONS OF THE NORTH CAROLINA DEPARTMENT OF ENVIRONMENTAL QUALITY, DIVISION OF WATER RESOURCES, WQ PERMITTING SECTION, 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.

PROPOSED GRAVITY SANITARY SEWER LINE LENGTHS			
SANITARY SEWER	LENGTH (LF)	PIPE TYPE	MANHOLES
SS-1	81.6	8" CLASS 51 RJ DIP	3 Manholes &
	561.8	8" SDR 35 PVC	2 Doghouse
	146.4	8" CLASS 51 DIP	Manholes
SS-2	161.7	8" CLASS 51 RJ DIP	3 Manholes &
	223.8	8" SDR 35 PVC	2 Doghouse
SS-3	204.5	8" CLASS RJ 51 DIP	2 Manholes &
	154	8" SDR 35 PVC	1 Doghouse
SS-4	39	18" SDR 35 PVC	Manhole
SS-5	33.8	18" CLASS 51 RJ DIP	1 Doghouse
			Manhole

PROPOSED WATER LINE LENGTHS		
WATER LINE	LENGTH (LF)	PIPE TYPE
WL-1	935	10" CLASS 51 RJ DIP
WL-2	357	2" CLASS 200 POLYETHYLENE
WL-3	142	10" CLASS 51 RJ DIP
WL-4	176	6" CLASS 51 RJ DIP
WL-5	89	10" CLASS 51 RJ DIP
WL-6	28	6" CLASS 51 RJ DIP
WL-7	38	6" CLASS 51 RJ DIP

**\*** ALL CLASS 51 R.J. DIP AND STANDARD DIP SHALL BE CERAMIC EPOXY LINED. **\***

PROJECT REFERENCE NO. <b>U-5888</b>	SHEET NO. <b>UC-3</b>
DESIGNED BY: <b>SS</b>	
DRAWN BY: <b>SS</b>	
CHECKED BY: <b>MVZ</b>	
APPROVED BY: <b>MVZ</b>	
REVISED:	
NORTH 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

**FINAL DESIGN**  
RELEASE FOR CONSTRUCTION

1/10/2019 11:51:58 AM U:\Projects\1903\UC3\psh.dgn



PROJECT REFERENCE NO.	SHEET NO.
U-5888	UC-4
DESIGNED BY: SS	7/18/2019
DRAWN BY: SS	
CHECKED BY: MVZ	
APPROVED BY: MVZ	
REVISED:	
NORTH CAROLINA DEPARTMENT OF TRANSPORTATION	
UTILITIES ENGINEERING SECTION PHONE: (919) 707-6690 FAX: (919) 250-4151	

UTILITY CONSTRUCTION

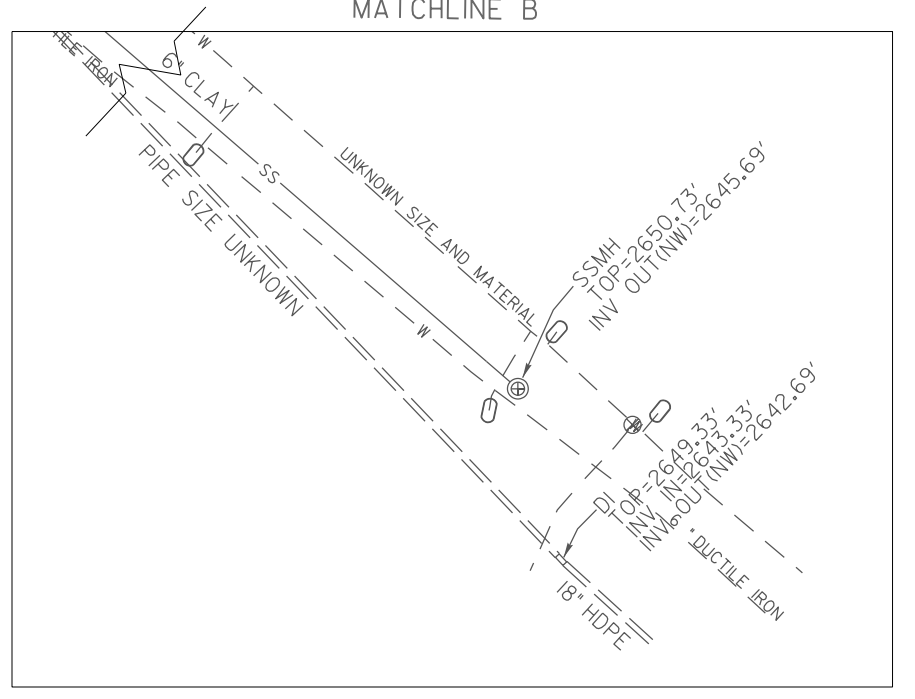
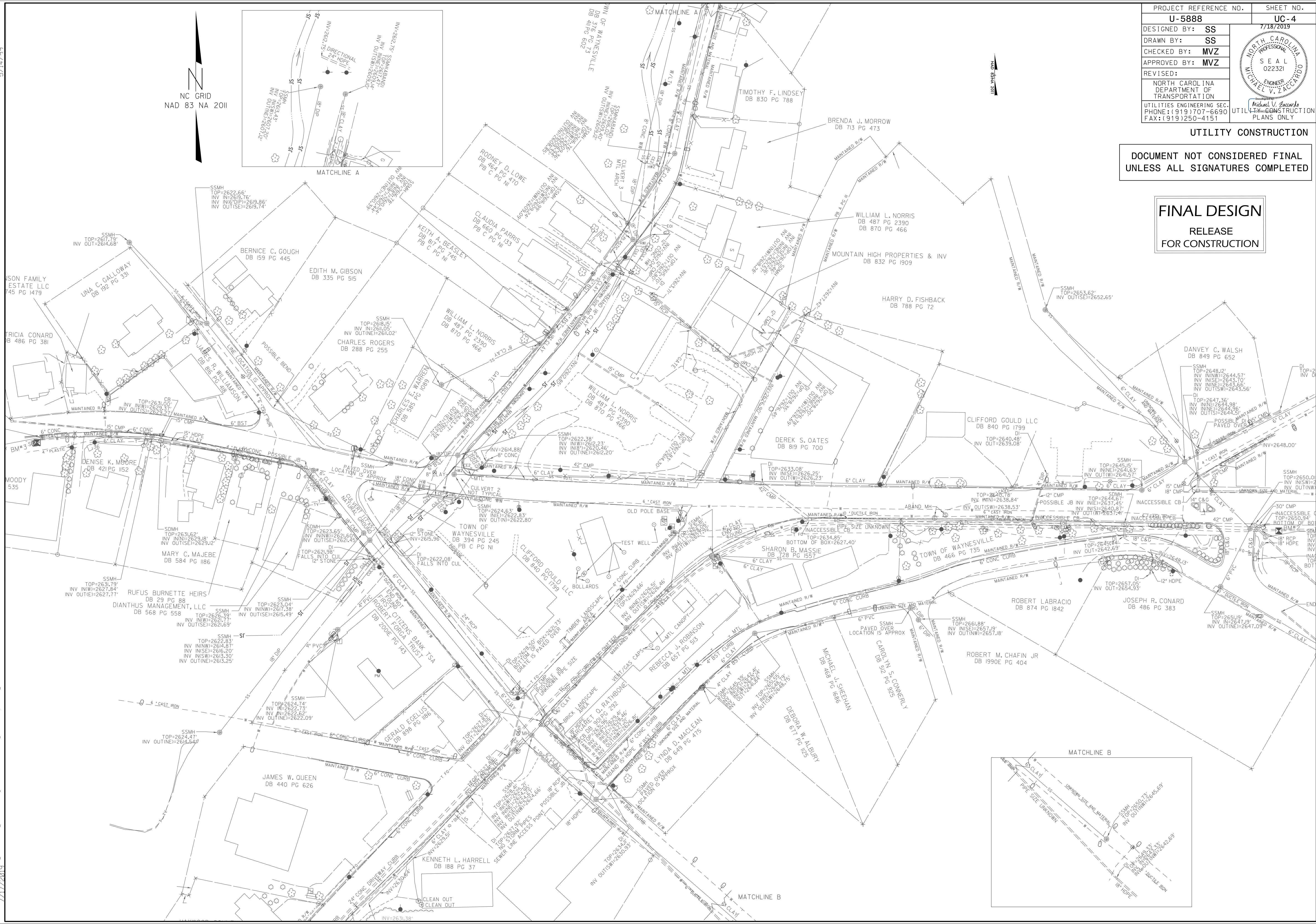
DOCUMENT NOT CONSIDERED FINAL  
UNLESS ALL SIGNATURES COMPLETED

**FINAL DESIGN**  
RELEASE  
FOR CONSTRUCTION

5/14/1999

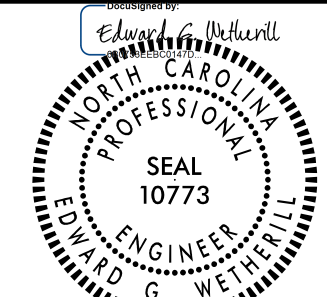
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NAD 83 NA 2011

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5/14/2021

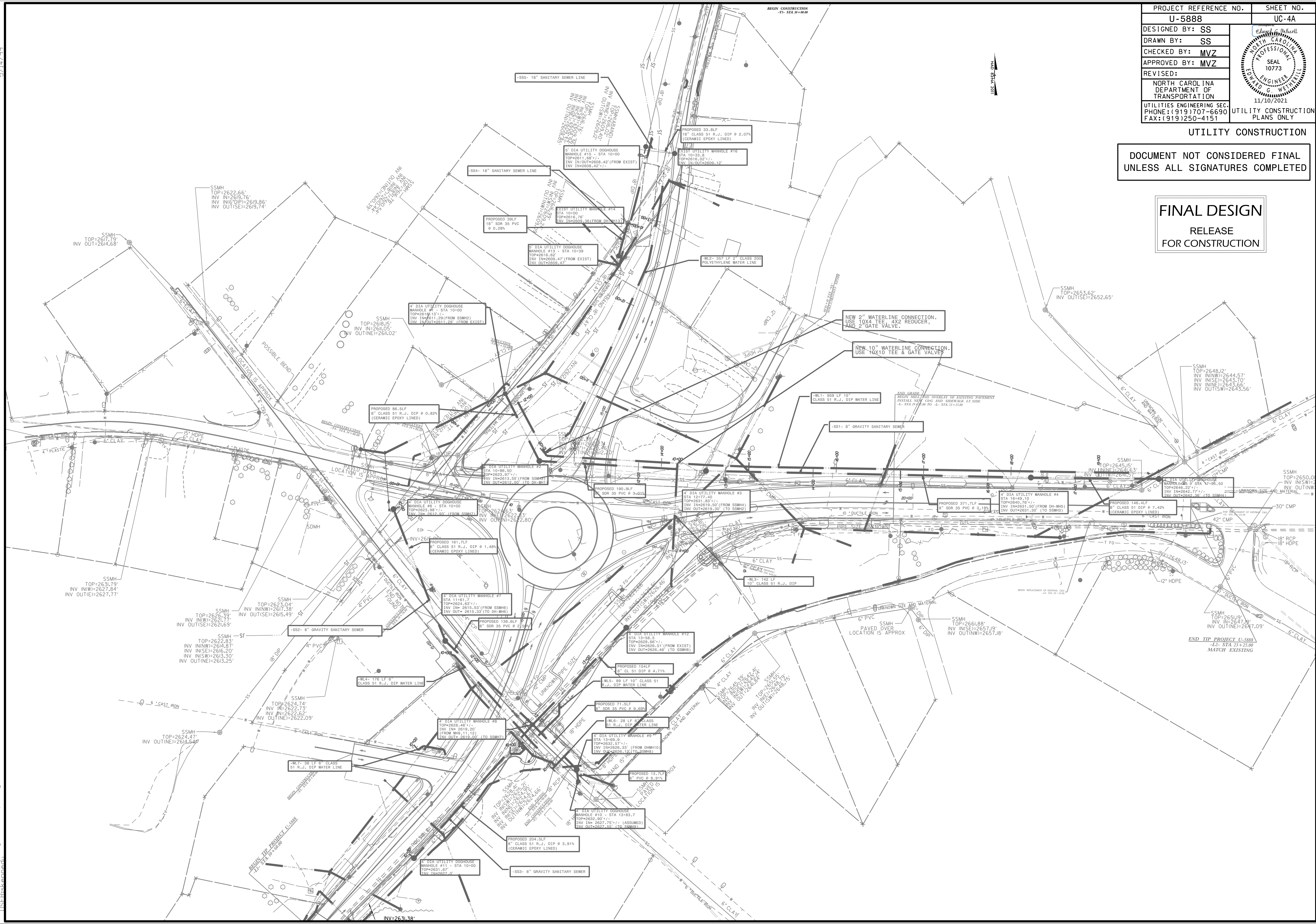
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PROJECT REFERENCE NO.	SHEET NO.
U-5888	UC-4A
DESIGNED BY: SS	
DRAWN BY: SS	
CHECKED BY: MVZ	
APPROVED BY: MVZ	
REVISED:	
NORTH CAROLINA DEPARTMENT OF TRANSPORTATION	
UTILITIES ENGINEERING SEC. PHONE: (919) 707-6690 FAX: (919) 250-4151	
UTILITY CONSTRUCTION PLANS ONLY	

UTILITY CONSTRUCTION

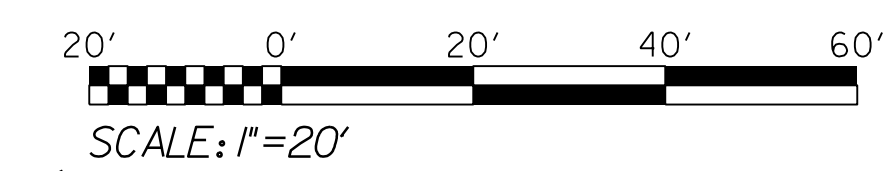
DOCUMENT NOT CONSIDERED FINAL  
UNLESS ALL SIGNATURES COMPLETED

FINAL DESIGN  
RELEASE  
FOR CONSTRUCTION



END TIP PROJECT U-5888  
MATCH EXISTING

5/14/99  
12/16/2002  
U-5888.ut\_rdy5\_UC5\_psh.dgn



PROJECT REFERENCE NO. U-5888	SHEET NO. UC-5
DESIGNED BY: SS	12/16/2001
DRAWN BY: SS	
CHECKED BY: MVZ	
APPROVED BY: MVZ	NORTH CAROLINA DEPARTMENT OF TRANSPORTATION
REVISED:	UTILITIES ENGINEERING SEC. PHONE: (919) 707-6690 FAX: (919) 250-4151

**FINAL DESIGN**  
RELEASE  
FOR CONSTRUCTION

**UTILITY CONSTRUCTION**

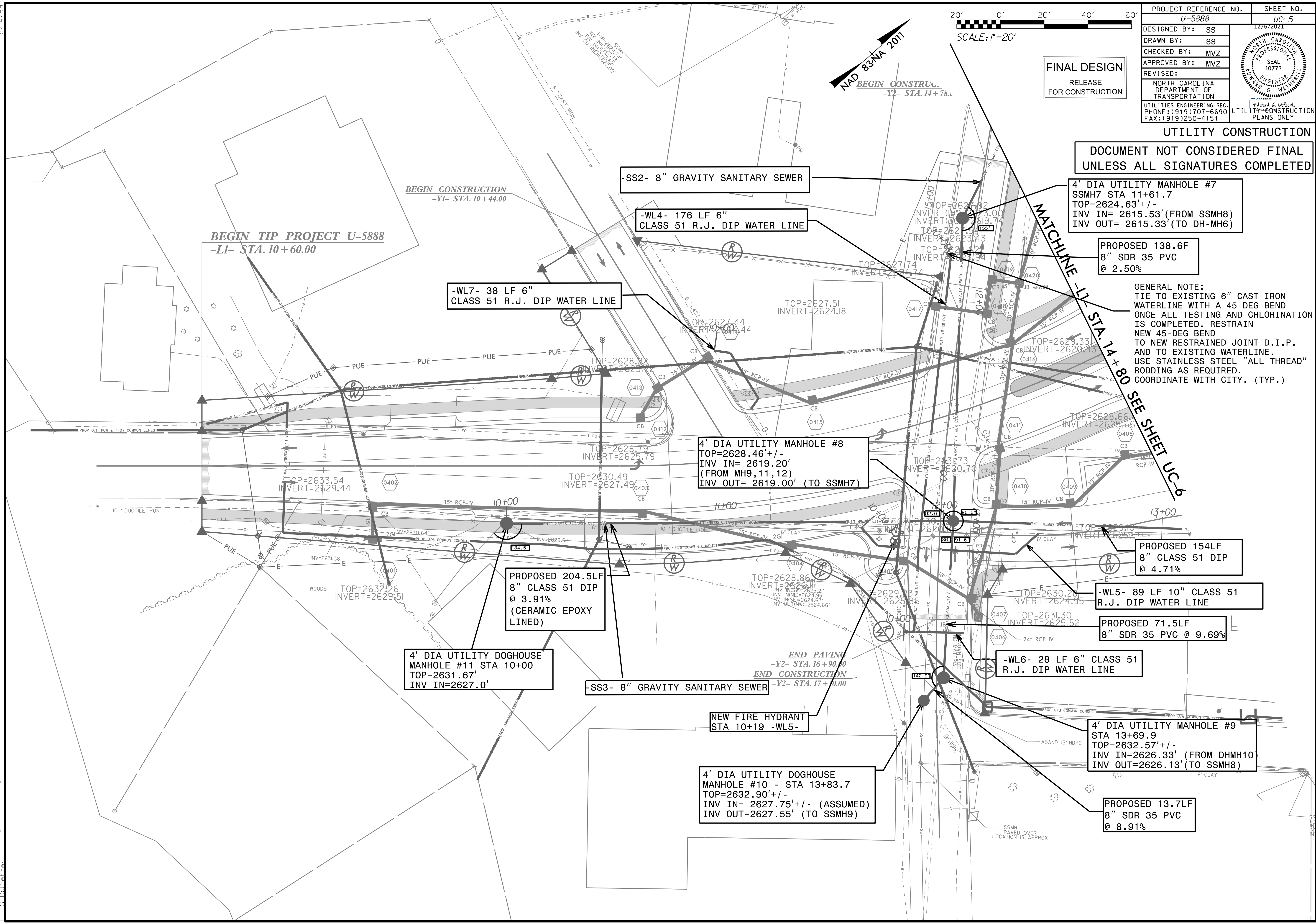
**DOCUMENT NOT CONSIDERED FINAL  
UNLESS ALL SIGNATURES COMPLETED**

**4' DIA UTILITY MANHOLE #7**  
SSMH7 STA 11+61.7  
TOP=2624.63' +/-  
INV IN= 2615.53' (FROM SSMH8)  
INV OUT= 2615.33' (TO DH-MH6)

**PROPOSED 138.6F**  
8" SDR 35 PVC  
@ 2.50%

**GENERAL NOTE:**  
TIE TO EXISTING 6" CAST IRON  
WATERLINE WITH A 45-DEG BEND  
ONCE ALL TESTING AND CHLORINATION  
IS COMPLETED. RESTRAIN  
NEW 45-DEG BEND  
TO NEW RESTRAINED JOINT D.I.P.  
AND TO EXISTING WATERLINE.  
USE STAINLESS STEEL "ALL THREAD"  
RODDING AS REQUIRED.  
COORDINATE WITH CITY. (TYP.)

**MATCHLINE -L1- STA. 14+80**  
**SEE SHEET UC-6**



**-SS2- 8" GRAVITY SANITARY SEWER**

**-WL4- 176 LF 6" CLASS 51 R.J. DIP WATER LINE**

**-WL7- 38 LF 6" CLASS 51 R.J. DIP WATER LINE**

**4' DIA UTILITY MANHOLE #8**  
TOP=2628.46' +/-  
INV IN= 2619.20'  
(FROM MH9, 11, 12)  
INV OUT= 2619.00' (TO SSMH7)

**PROPOSED 204.5LF**  
8" CLASS 51 DIP  
@ 3.91%  
(CERAMIC EPOXY  
LINED)

**4' DIA UTILITY DOGHOUSE  
MANHOLE #11 STA 10+00**  
TOP=2631.67'  
INV IN=2627.0'

**-SS3- 8" GRAVITY SANITARY SEWER**

**NEW FIRE HYDRANT  
STA 10+19 -WL5-**

**4' DIA UTILITY DOGHOUSE  
MANHOLE #10 - STA 13+83.7**  
TOP=2632.90' +/-  
INV IN= 2627.75' +/- (ASSUMED)  
INV OUT=2627.55' (TO SSMH9)

**PROPOSED 154LF**  
8" CLASS 51 DIP  
@ 4.71%

**-WL5- 89 LF 10" CLASS 51  
R.J. DIP WATER LINE**

**PROPOSED 71.5LF**  
8" SDR 35 PVC @ 9.69%

**-WL6- 28 LF 6" CLASS 51  
R.J. DIP WATER LINE**

**4' DIA UTILITY MANHOLE #9**  
STA 13+69.9  
TOP=2632.57' +/-  
INV IN=2626.33' (FROM DHMH10)  
INV OUT=2626.13' (TO SSMH8)

**PROPOSED 13.7LF**  
8" SDR 35 PVC  
@ 8.91%

**BEGIN TIP PROJECT U-5888**  
-L1- STA. 10+60.00

**BEGIN CONSTRUCTION**  
-Y1- STA. 10+44.00

**BEGIN CONSTRUCTION**  
-Y2- STA. 14+78.00

**END PAVING**  
-Y2- STA. 16+90.00

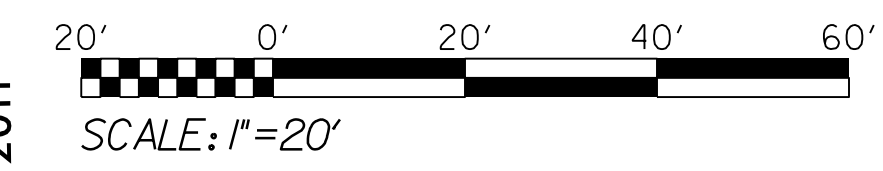
**END CONSTRUCTION**  
-Y2- STA. 17+00.00

SSMH PAVED OVER  
LOCATION IS APPROX





5/14/2021

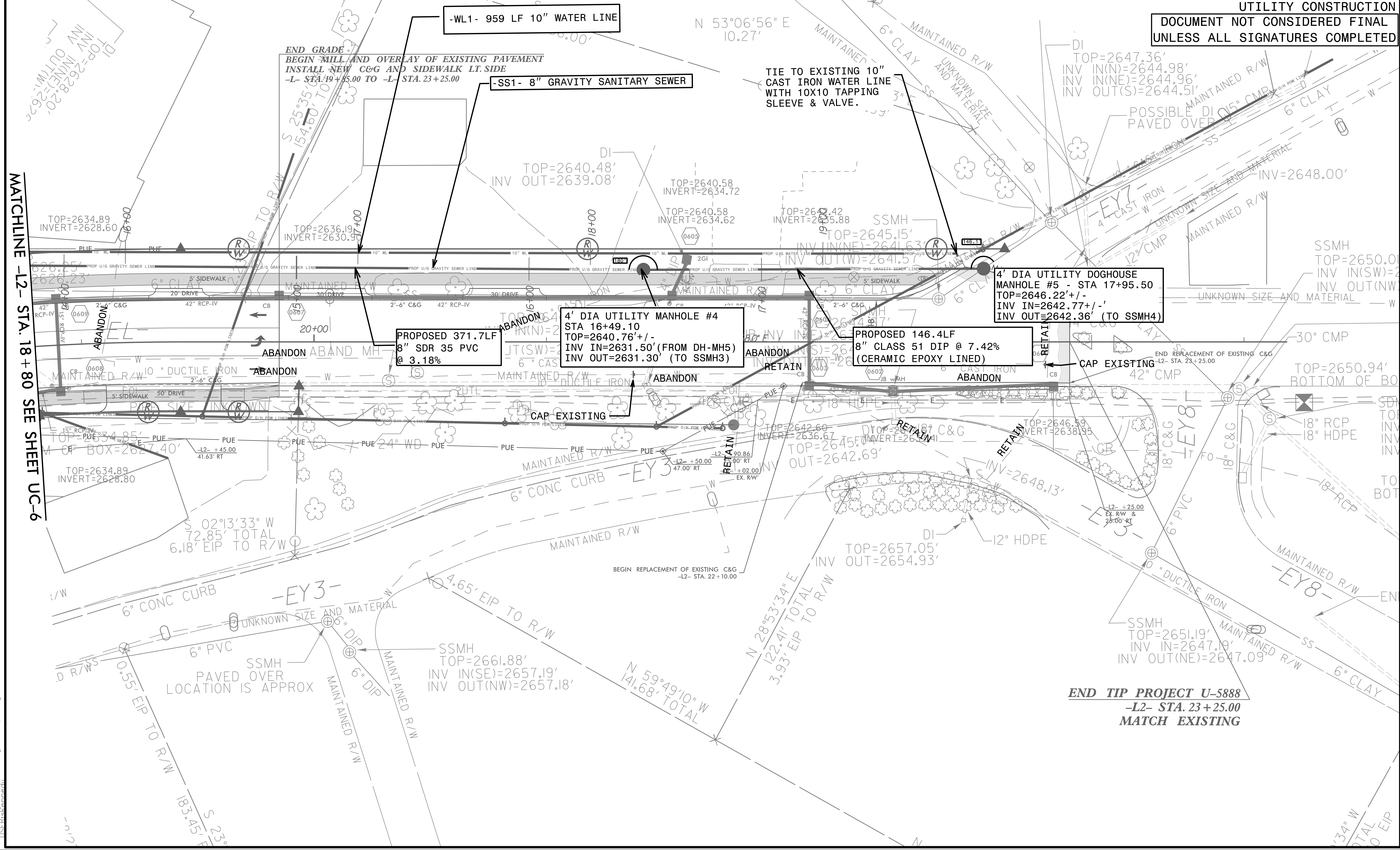


NAD 83/NA 2011

PROJECT REFERENCE NO. U-5888	SHEET NO. UC-7
DESIGNED BY: SS	
DRAWN BY: SS	
CHECKED BY: MVZ	
APPROVED BY: MVZ	
REVISED:	
NORTH CAROLINA DEPARTMENT OF TRANSPORTATION UTILITIES ENGINEERING SEC. PHONE: (919) 707-6690 FAX: (919) 250-4151 UTILITY CONSTRUCTION PLANS ONLY	

**FINAL DESIGN**  
RELEASE FOR CONSTRUCTION

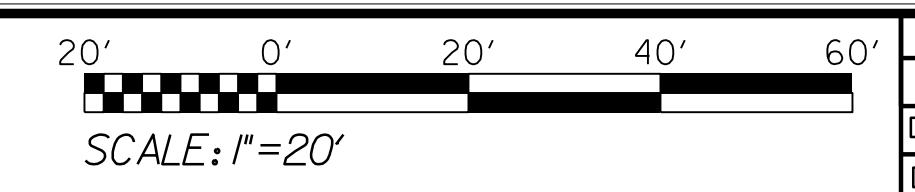
**UTILITY CONSTRUCTION**  
DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED



MATCHLINE -L2- STA. 18+80 SEE SHEET UC-6

**END TIP PROJECT U-5888**  
-L2- STA. 23+25.00  
MATCH EXISTING

1/10/2021 10:58:88 ut\_rdy7\_UC7\_psh.dgn

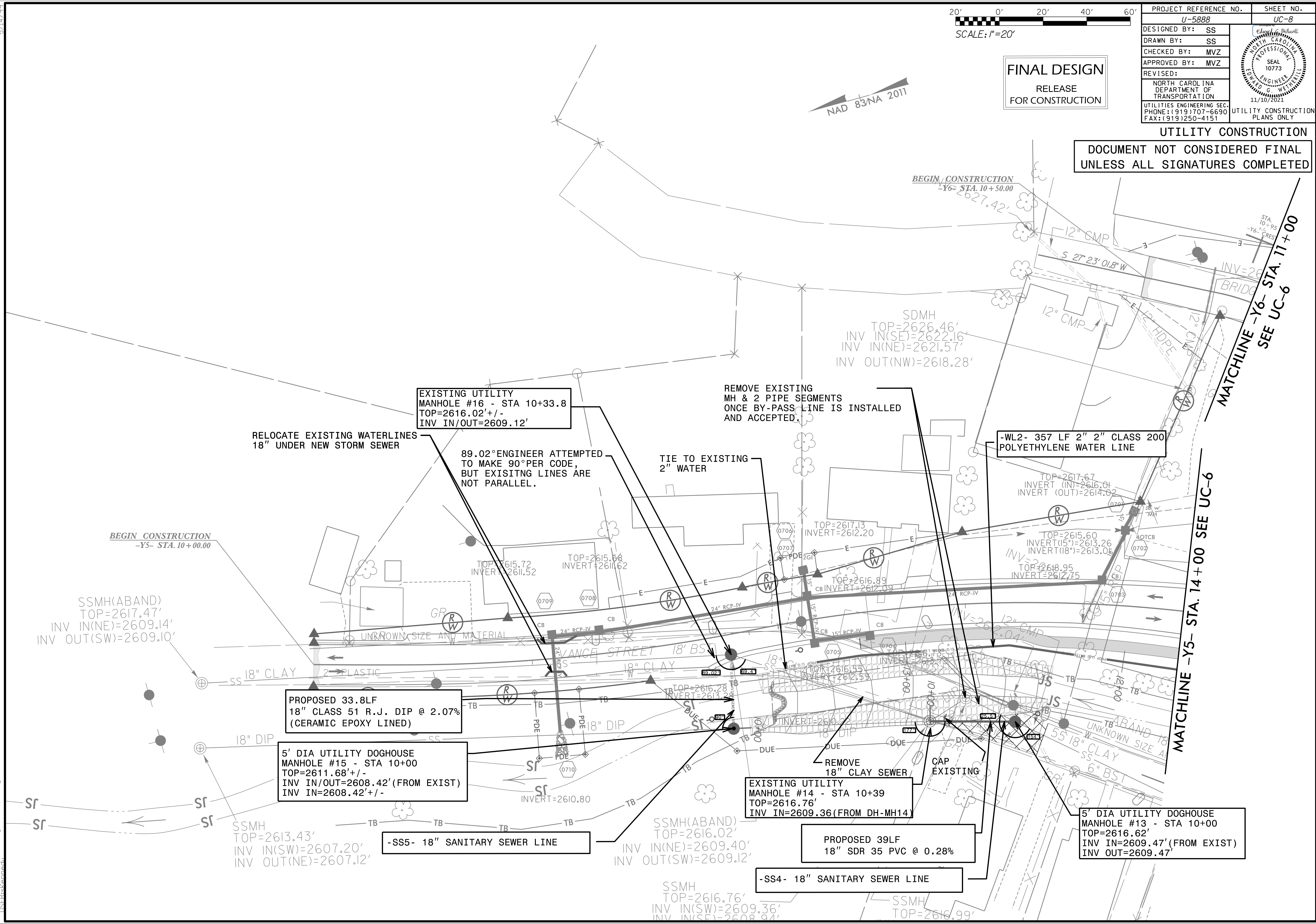
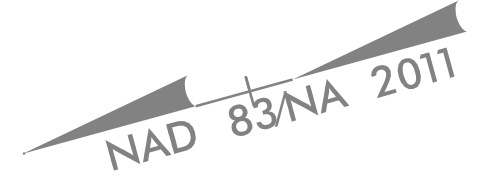


PROJECT REFERENCE NO. <i>U-5888</i>	SHEET NO. <i>UC-8</i>
DESIGNED BY: <i>SS</i>	
DRAWN BY: <i>SS</i>	
CHECKED BY: <i>MVZ</i>	
APPROVED BY: <i>MVZ</i>	
REVISED:	
NORTH CAROLINA DEPARTMENT OF TRANSPORTATION 11/10/2021 UTILITIES ENGINEERING SEC. PHONE: (919) 707-6690 FAX: (919) 250-4151	

**FINAL DESIGN**  
RELEASE  
FOR CONSTRUCTION

UTILITY CONSTRUCTION

DOCUMENT NOT CONSIDERED FINAL  
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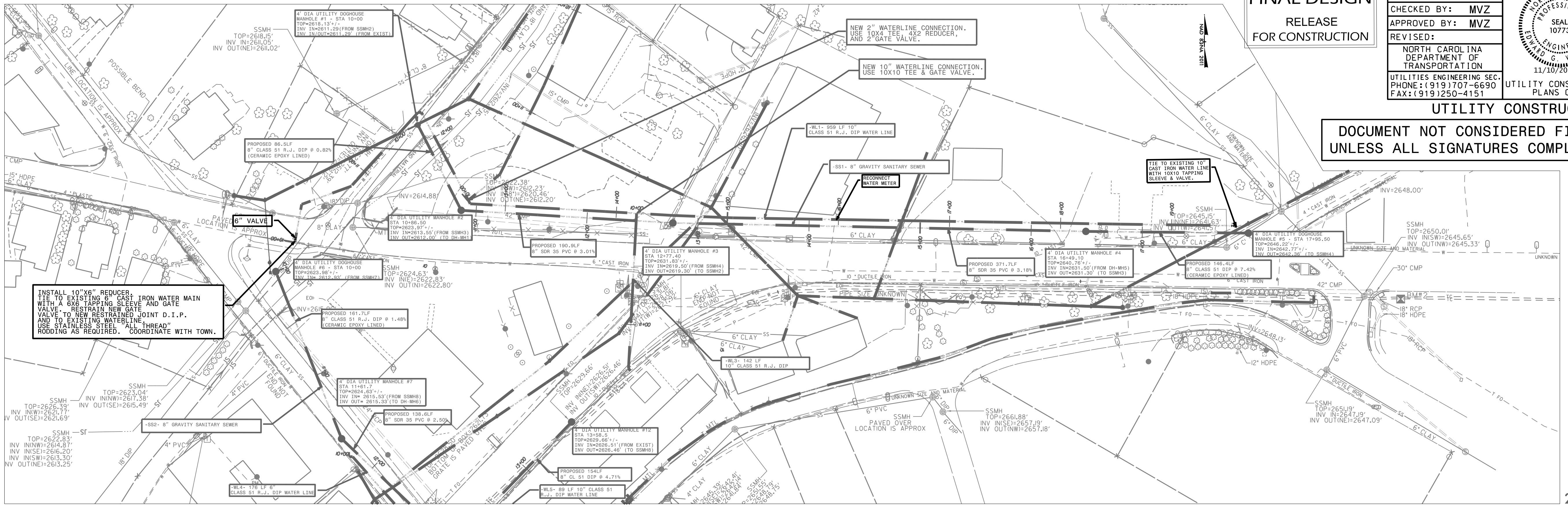
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8.17/99

PROJECT REFERENCE NO. <b>U-5888</b>	SHEET NO. <b>UC-9</b>
DESIGNED BY: <b>SS</b>	
DRAWN BY: <b>SS</b>	
CHECKED BY: <b>MVZ</b>	
APPROVED BY: <b>MVZ</b>	
REVISED:	NORTH CAROLINA DEPARTMENT OF TRANSPORTATION UTILITIES ENGINEERING SEC. PHONE: (919) 707-6690 FAX: (919) 250-4151
<b>UTILITY CONSTRUCTION</b>	

**FINAL DESIGN**  
RELEASE  
FOR CONSTRUCTION

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

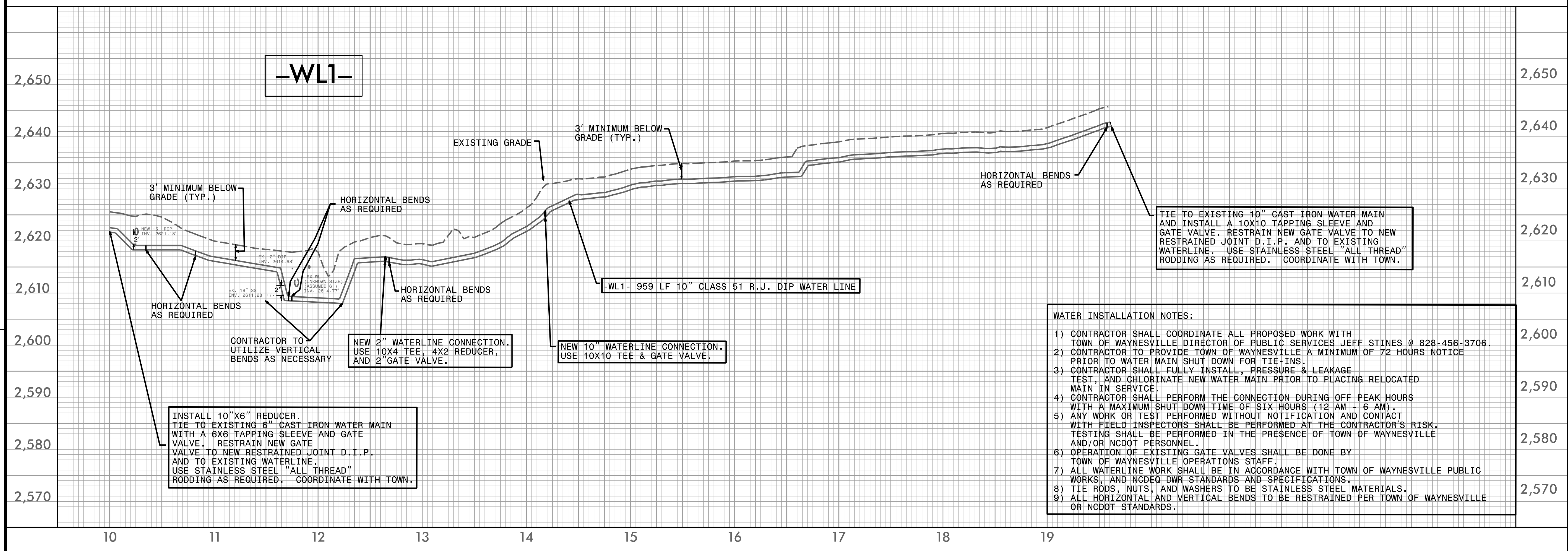


INSTALL 10"x6" REDUCER. TIE TO EXISTING 6" CAST IRON WATER MAIN WITH A 6x6 TAPPING SLEEVE AND GATE VALVE. RESTRAIN NEW GATE VALVE TO NEW RESTRAINED JOINT D.I.P. AND TO EXISTING WATERLINE. USE STAINLESS STEEL "ALL THREAD" RODDING AS REQUIRED. COORDINATE WITH TOWN.

TIE TO EXISTING 10" CAST IRON WATER MAIN AND INSTALL A 10x10 TAPPING SLEEVE AND GATE VALVE. RESTRAIN NEW GATE VALVE TO NEW RESTRAINED JOINT D.I.P. AND TO EXISTING WATERLINE. USE STAINLESS STEEL "ALL THREAD" RODDING AS REQUIRED. COORDINATE WITH TOWN.

**WATER INSTALLATION NOTES:**

- 1) CONTRACTOR SHALL COORDINATE ALL PROPOSED WORK WITH TOWN OF WAYNESVILLE DIRECTOR OF PUBLIC SERVICES JEFF STINES @ 828-456-3706.
- 2) CONTRACTOR TO PROVIDE TOWN OF WAYNESVILLE A MINIMUM OF 72 HOURS NOTICE PRIOR TO WATER MAIN SHUT DOWN FOR TIE-INS.
- 3) CONTRACTOR SHALL FULLY INSTALL, PRESSURE & LEAKAGE TEST, AND CHLORINATE NEW WATER MAIN PRIOR TO PLACING RELOCATED MAIN IN SERVICE.
- 4) CONTRACTOR SHALL PERFORM THE CONNECTION DURING OFF PEAK HOURS WITH A MAXIMUM SHUT DOWN TIME OF SIX HOURS (12 AM - 6 AM).
- 5) ANY WORK OR TEST PERFORMED WITHOUT NOTIFICATION AND CONTACT WITH FIELD INSPECTORS SHALL BE PERFORMED AT THE CONTRACTOR'S RISK. TESTING SHALL BE PERFORMED IN THE PRESENCE OF TOWN OF WAYNESVILLE AND/OR NCDOT PERSONNEL.
- 6) OPERATION OF EXISTING GATE VALVES SHALL BE DONE BY TOWN OF WAYNESVILLE OPERATIONS STAFF.
- 7) ALL WATERLINE WORK SHALL BE IN ACCORDANCE WITH TOWN OF WAYNESVILLE PUBLIC WORKS, AND NCDOT DWR STANDARDS AND SPECIFICATIONS.
- 8) TIE RODS, NUTS, AND WASHERS TO BE STAINLESS STEEL MATERIALS.
- 9) ALL HORIZONTAL AND VERTICAL BENDS TO BE RESTRAINED PER TOWN OF WAYNESVILLE OR NCDOT STANDARDS.



REVISIONS

2,640

2,650

2,640

2,630

2,620

2,610

2,600

2,590

2,580

2,570

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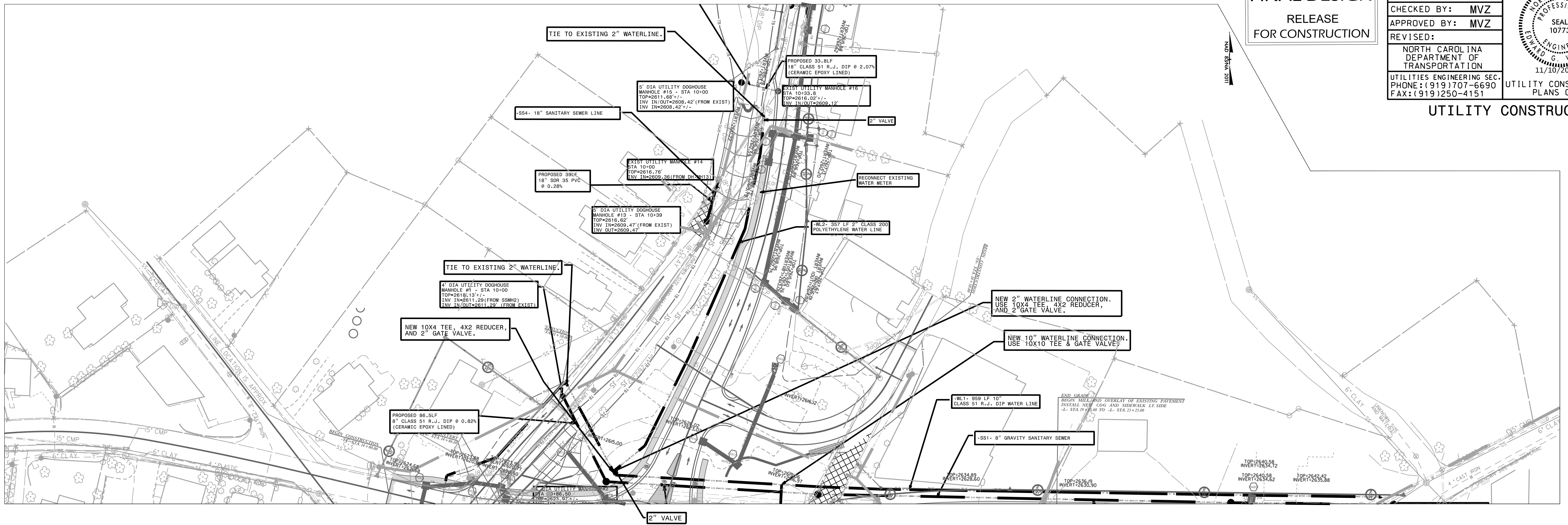
18

19

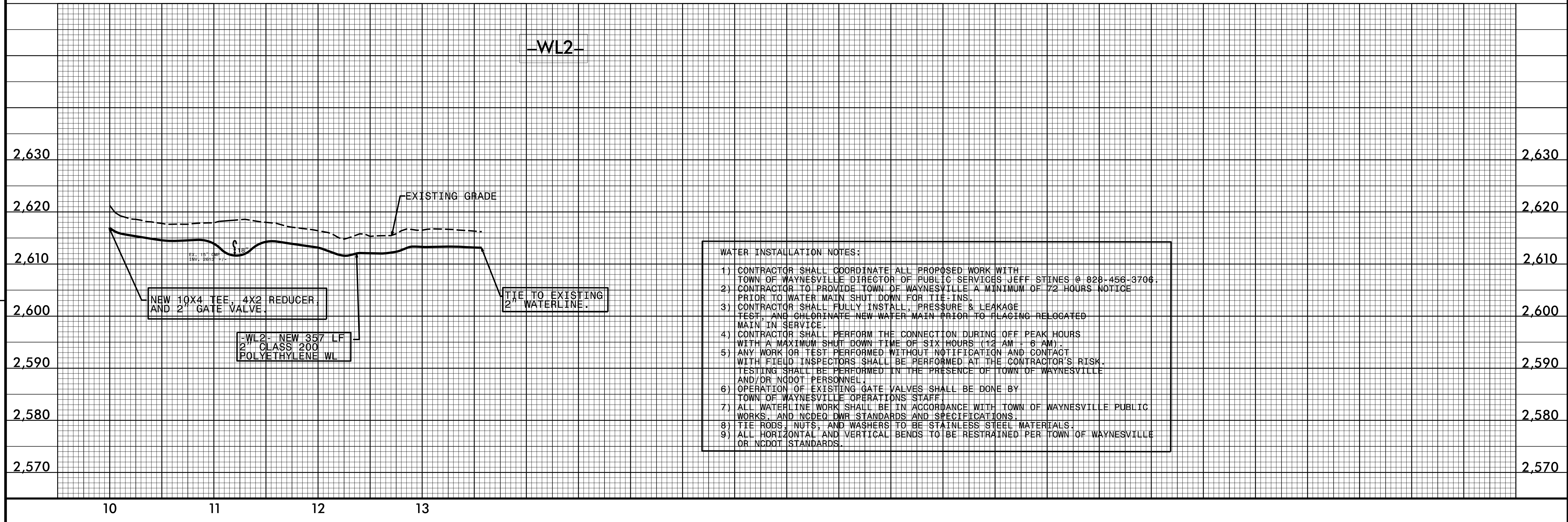
8/17/99

PROJECT REFERENCE NO. U-5888	SHEET NO. UC-10
DESIGNED BY: SS	
DRAWN BY: SS	
CHECKED BY: MVZ	
APPROVED BY: MVZ	
REVISED:	
NORTH CAROLINA DEPARTMENT OF TRANSPORTATION UTILITIES ENGINEERING SEC. PHONE: (919) 707-6690 FAX: (919) 250-4151	
UTILITY CONSTRUCTION PLANS ONLY	

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RELEASE  
FOR CONSTRUCTION



REVISIONS



- WATER INSTALLATION NOTES:
- 1) CONTRACTOR SHALL COORDINATE ALL PROPOSED WORK WITH TOWN OF WAYNESVILLE DIRECTOR OF PUBLIC SERVICES JEFF STINES @ 828-456-3706.
  - 2) CONTRACTOR TO PROVIDE TOWN OF WAYNESVILLE A MINIMUM OF 72 HOURS NOTICE PRIOR TO WATER MAIN SHUT DOWN FOR TIE-INS.
  - 3) CONTRACTOR SHALL FULLY INSTALL, PRESSURE & LEAKAGE TEST, AND CHLORINATE NEW WATER MAIN PRIOR TO FLAGGING RELOCATED MAIN IN SERVICE.
  - 4) CONTRACTOR SHALL PERFORM THE CONNECTION DURING OFF PEAK HOURS WITH A MAXIMUM SHUT DOWN TIME OF SIX HOURS (12 AM - 6 AM).
  - 5) ANY WORK OR TEST PERFORMED WITHOUT NOTIFICATION AND CONTACT WITH FIELD INSPECTORS SHALL BE PERFORMED AT THE CONTRACTOR'S RISK. TESTING SHALL BE PERFORMED IN THE PRESENCE OF TOWN OF WAYNESVILLE AND/OR NCDOT PERSONNEL.
  - 6) OPERATION OF EXISTING GATE VALVES SHALL BE DONE BY TOWN OF WAYNESVILLE OPERATIONS STAFF.
  - 7) ALL WATERLINE WORK SHALL BE IN ACCORDANCE WITH TOWN OF WAYNESVILLE PUBLIC WORKS, AND NCDEQ DWR STANDARDS AND SPECIFICATIONS.
  - 8) TIE RODS, NUTS, AND WASHERS TO BE STAINLESS STEEL MATERIALS.
  - 9) ALL HORIZONTAL AND VERTICAL BENDS TO BE RESTRAINED PER TOWN OF WAYNESVILLE OR NCDOT STANDARDS.

5/28/99

**FINAL DESIGN**  
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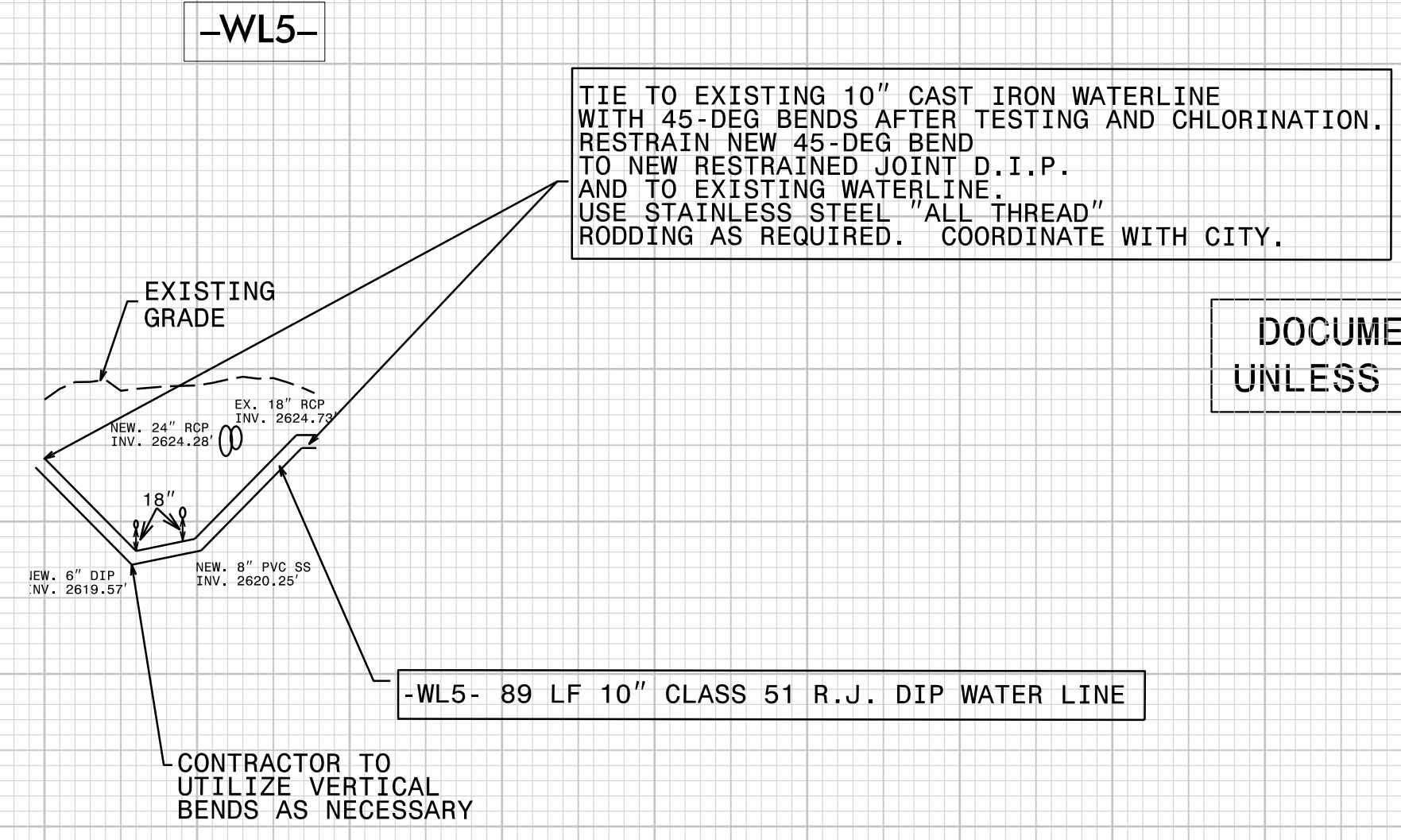
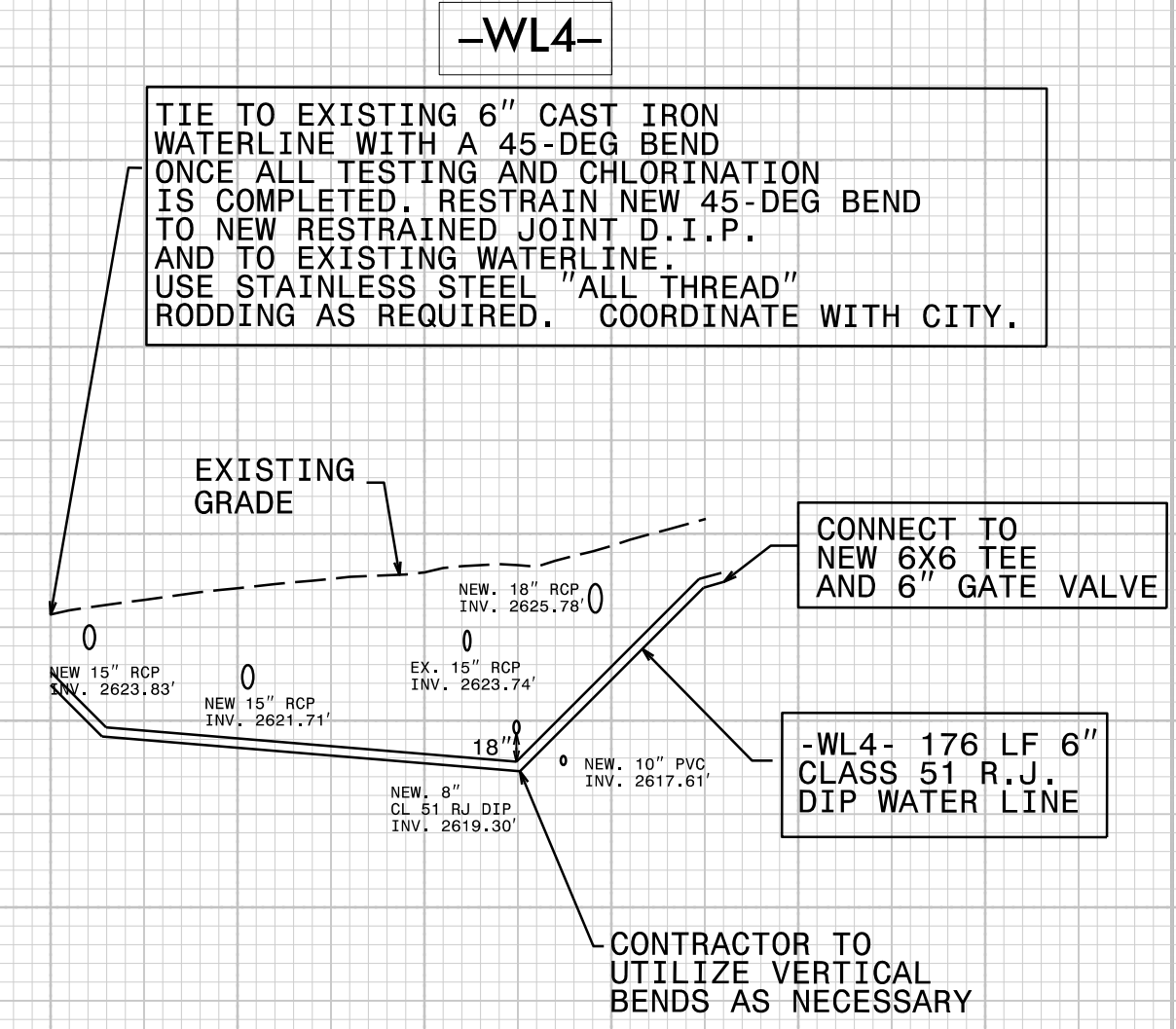
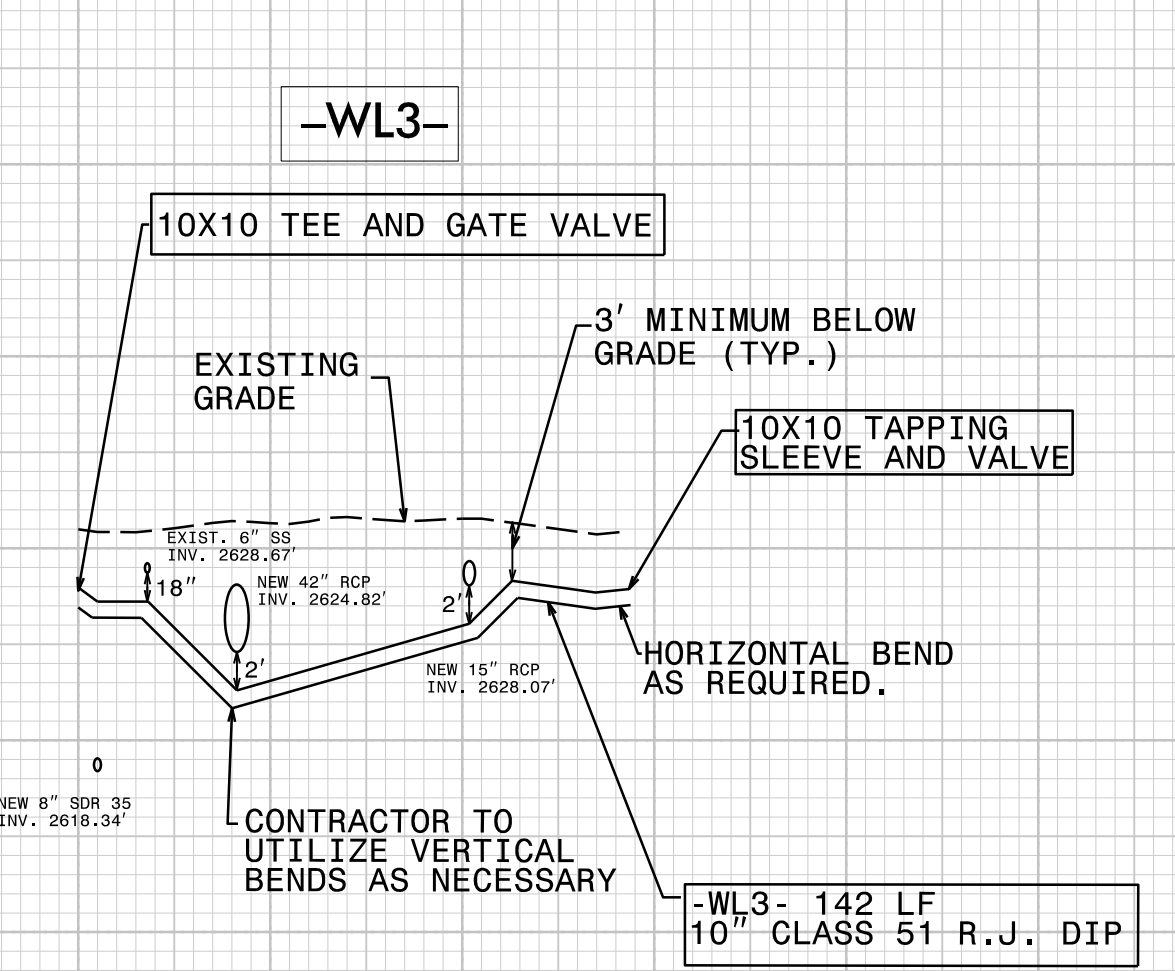
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DRAWN BY: <b>SS</b>	7/18/2019
CHECKED BY: <b>MVZ</b>	
APPROVED BY: <b>MVZ</b>	
REVISED:	NORTH CAROLINA DEPARTMENT OF TRANSPORTATION
UTILITIES ENGINEERING SEC. PHONE: (919) 707-6690 FAX: (919) 250-4151	

**UTILITY CONSTRUCTION**

DOCUMENT NOT CONSIDERED FINAL  
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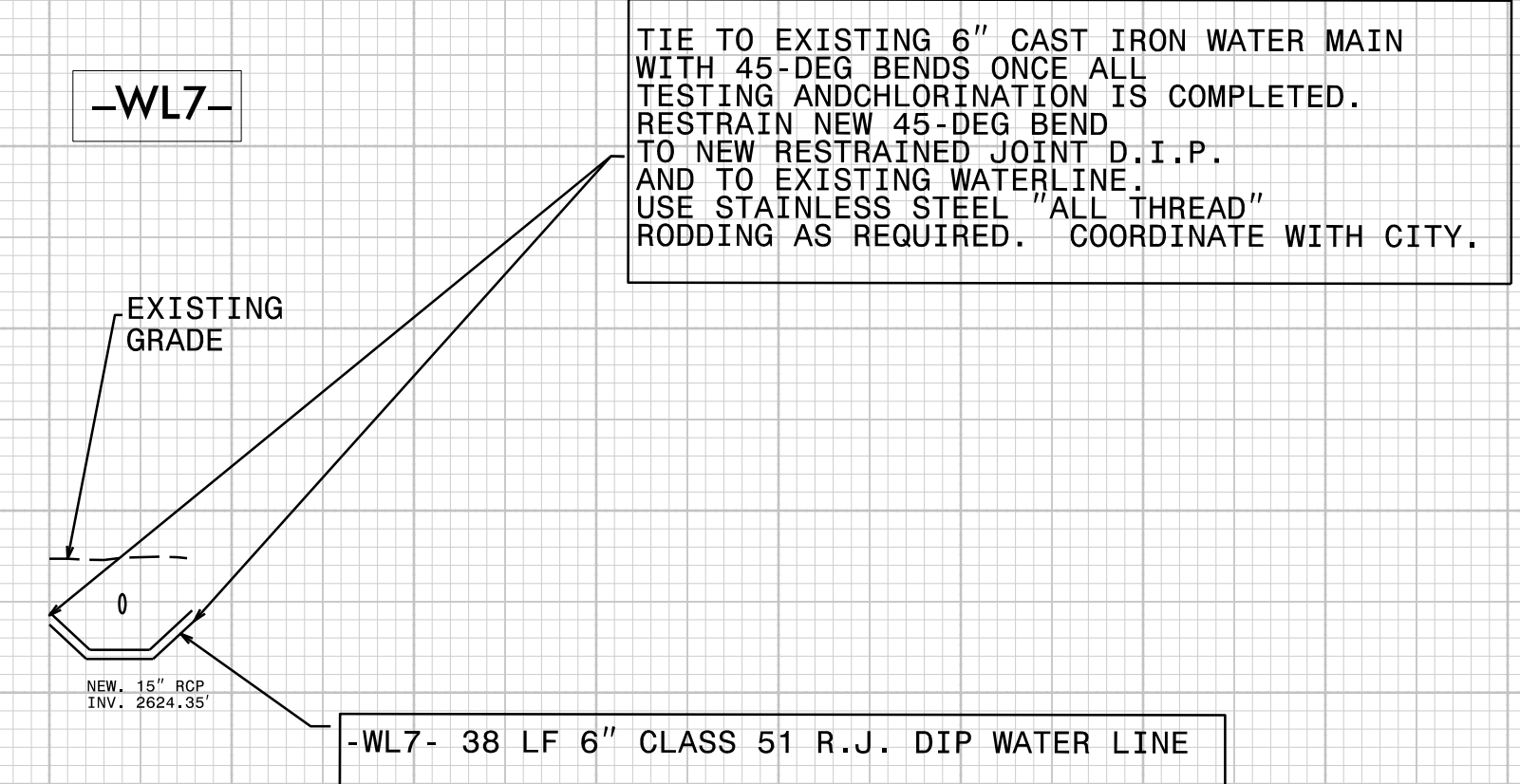
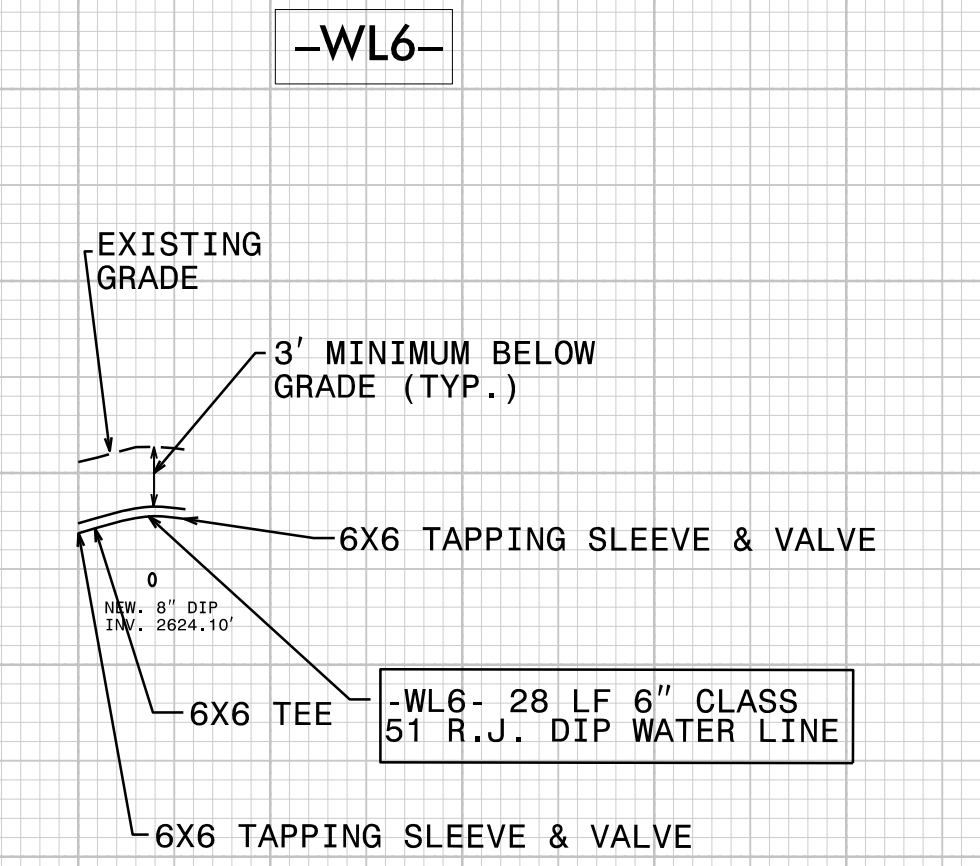
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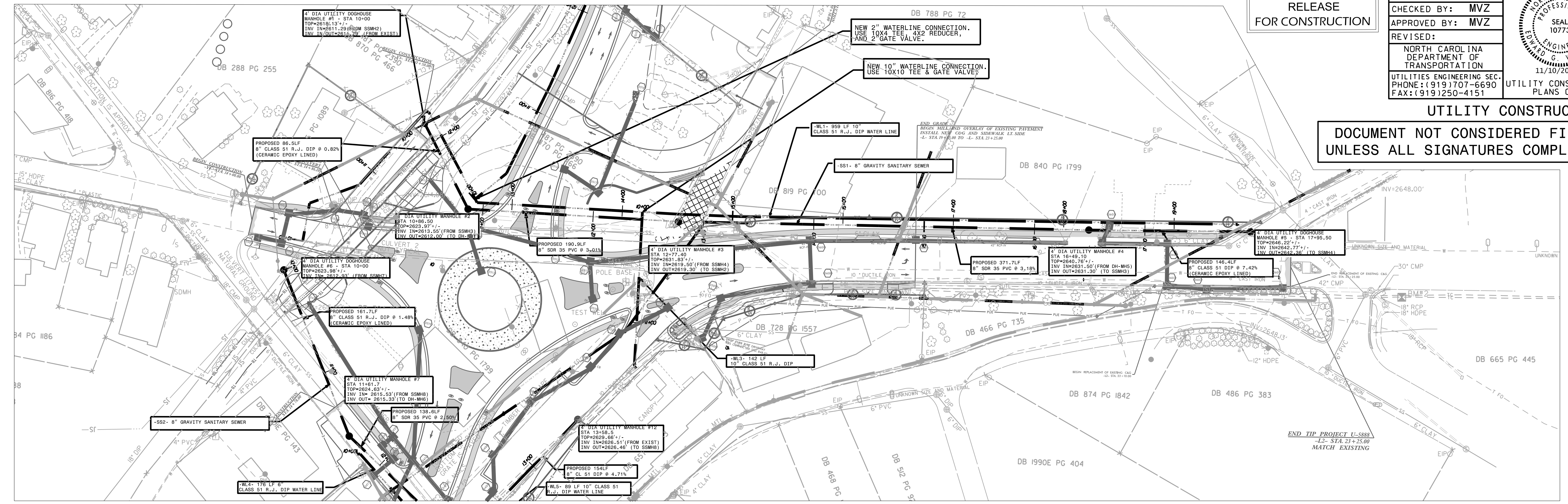
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8/17/99

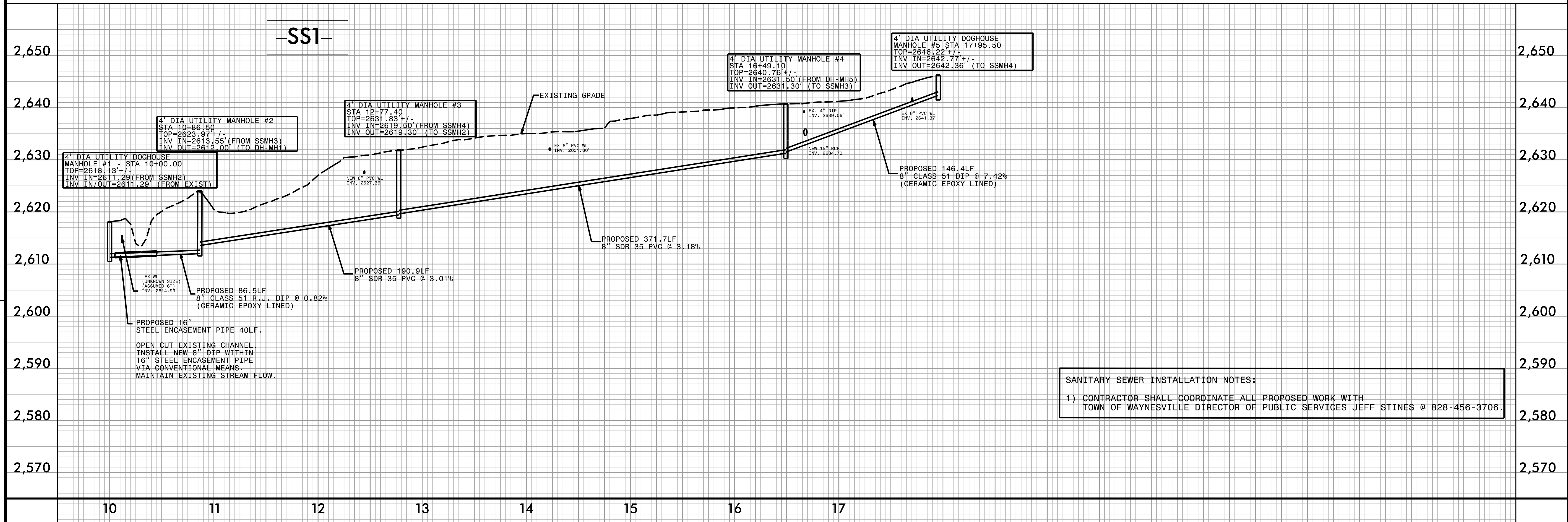
**FINAL DESIGN**  
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PROJECT REFERENCE NO. U-5888	SHEET NO. UC-12
DESIGNED BY: SS	
DRAWN BY: SS	
CHECKED BY: MVZ	
APPROVED BY: MVZ	
REVISED:	
NORTH CAROLINA DEPARTMENT OF TRANSPORTATION UTILITIES ENGINEERING SECTION PHONE: (919) 707-6690 FAX: (919) 250-4151	
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REVISIONS



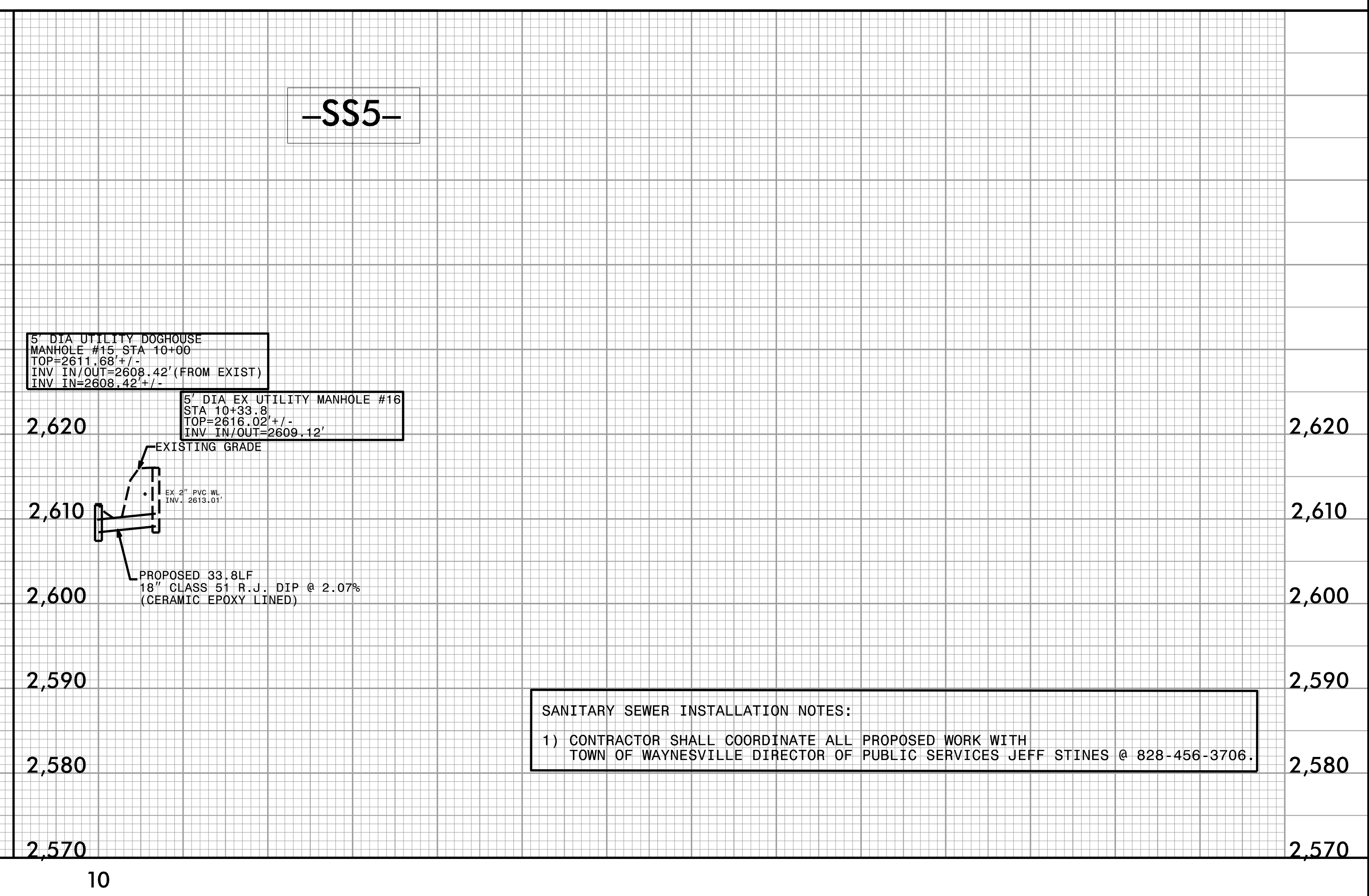
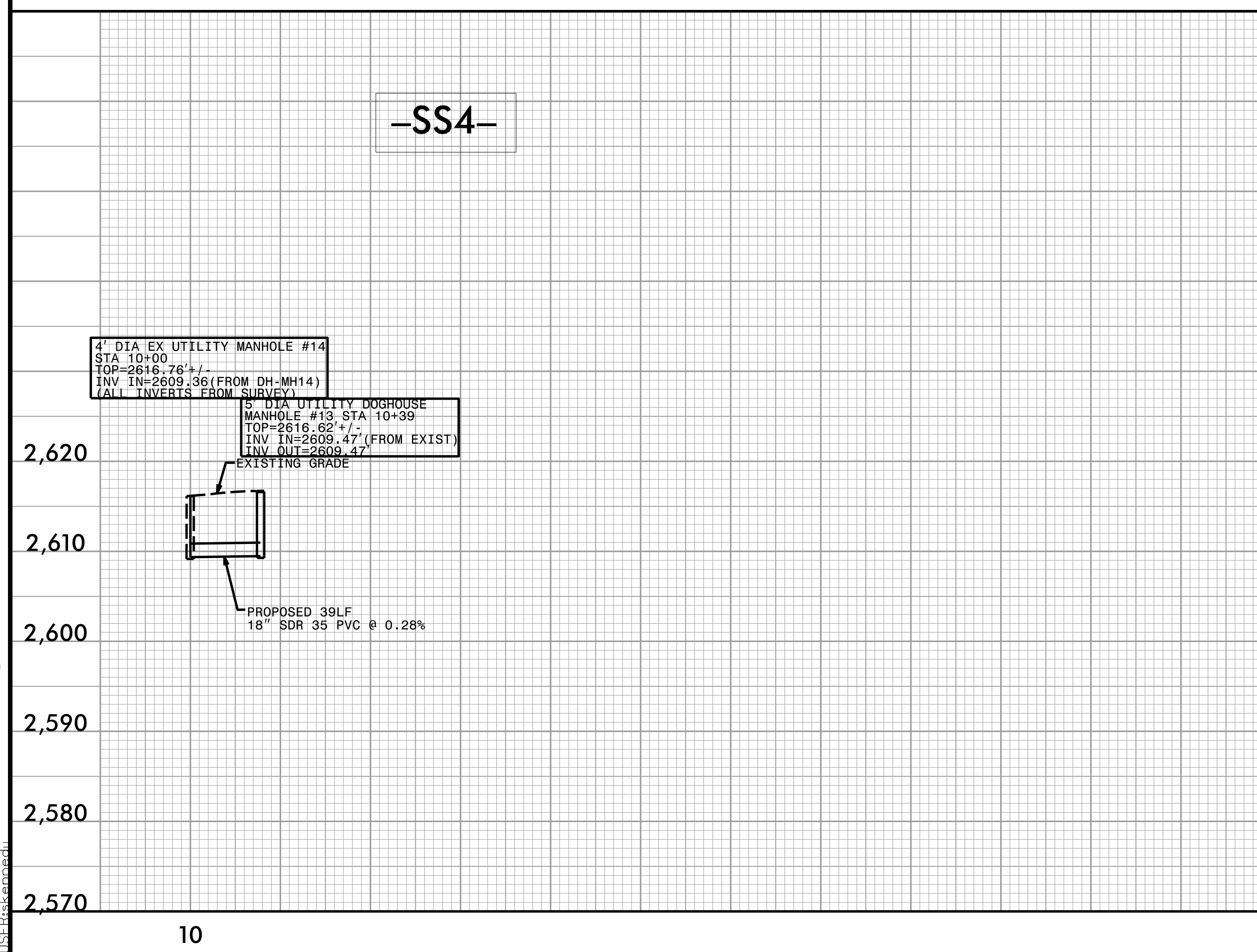
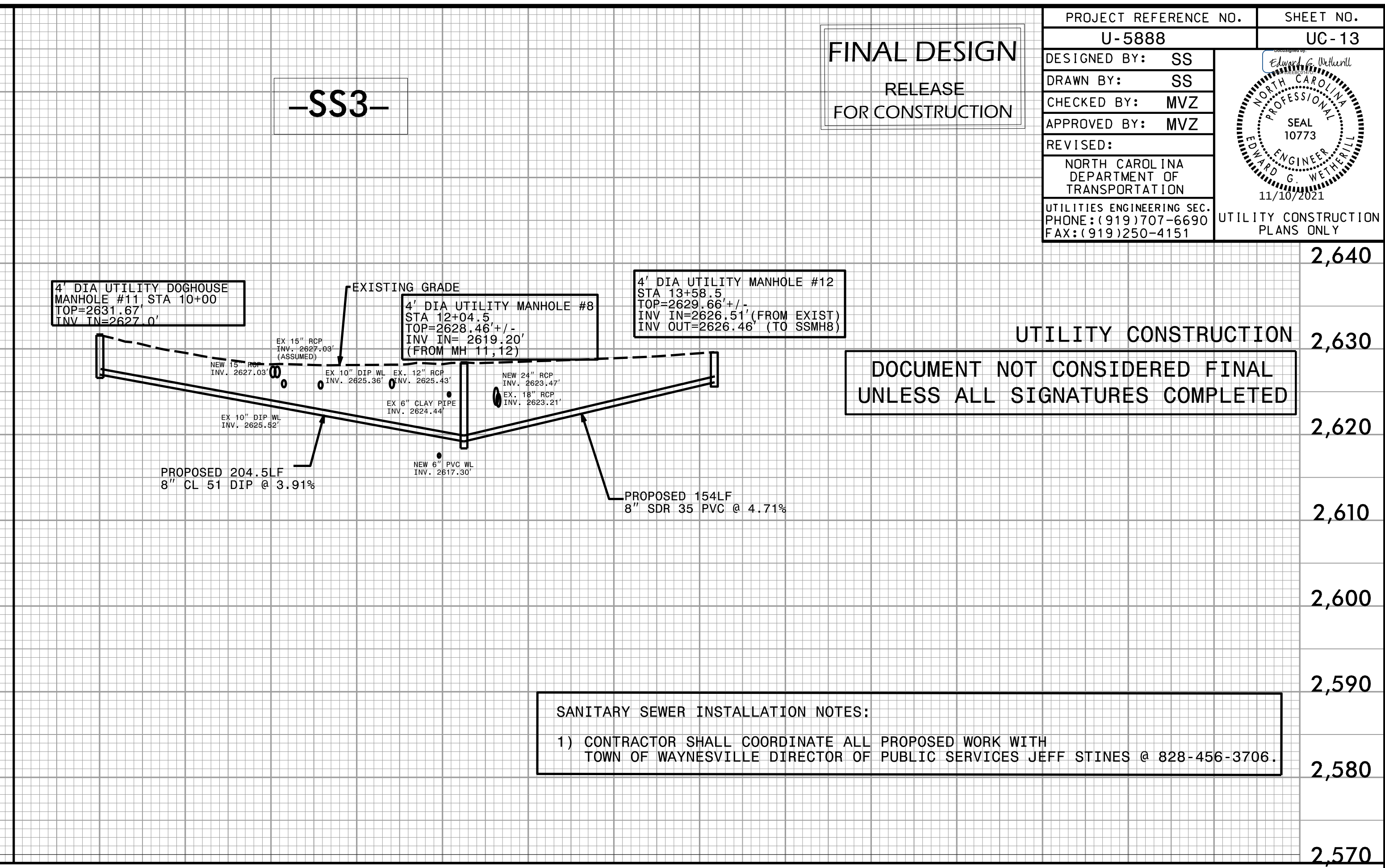
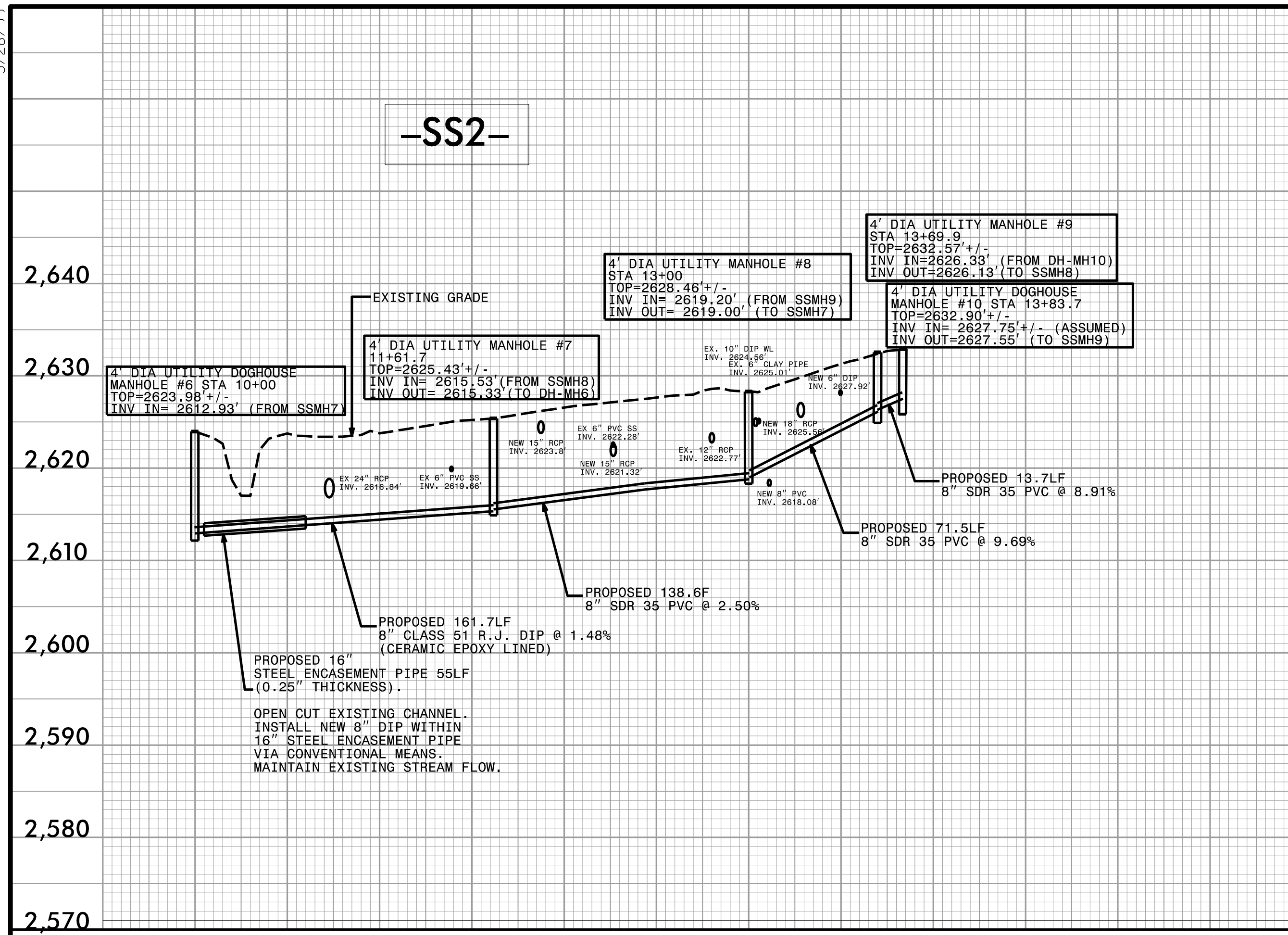
**SANITARY SEWER INSTALLATION NOTES:**

1) CONTRACTOR SHALL COORDINATE ALL PROPOSED WORK WITH TOWN OF WAYNESVILLE DIRECTOR OF PUBLIC SERVICES JEFF STINES @ 828-456-3706.

5/28/99

**FINAL DESIGN**  
RELEASE  
FOR CONSTRUCTION

PROJECT REFERENCE NO. U-5888	SHEET NO. UC-13
DESIGNED BY: SS	
DRAWN BY: SS	
CHECKED BY: MVZ	
APPROVED BY: MVZ	
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