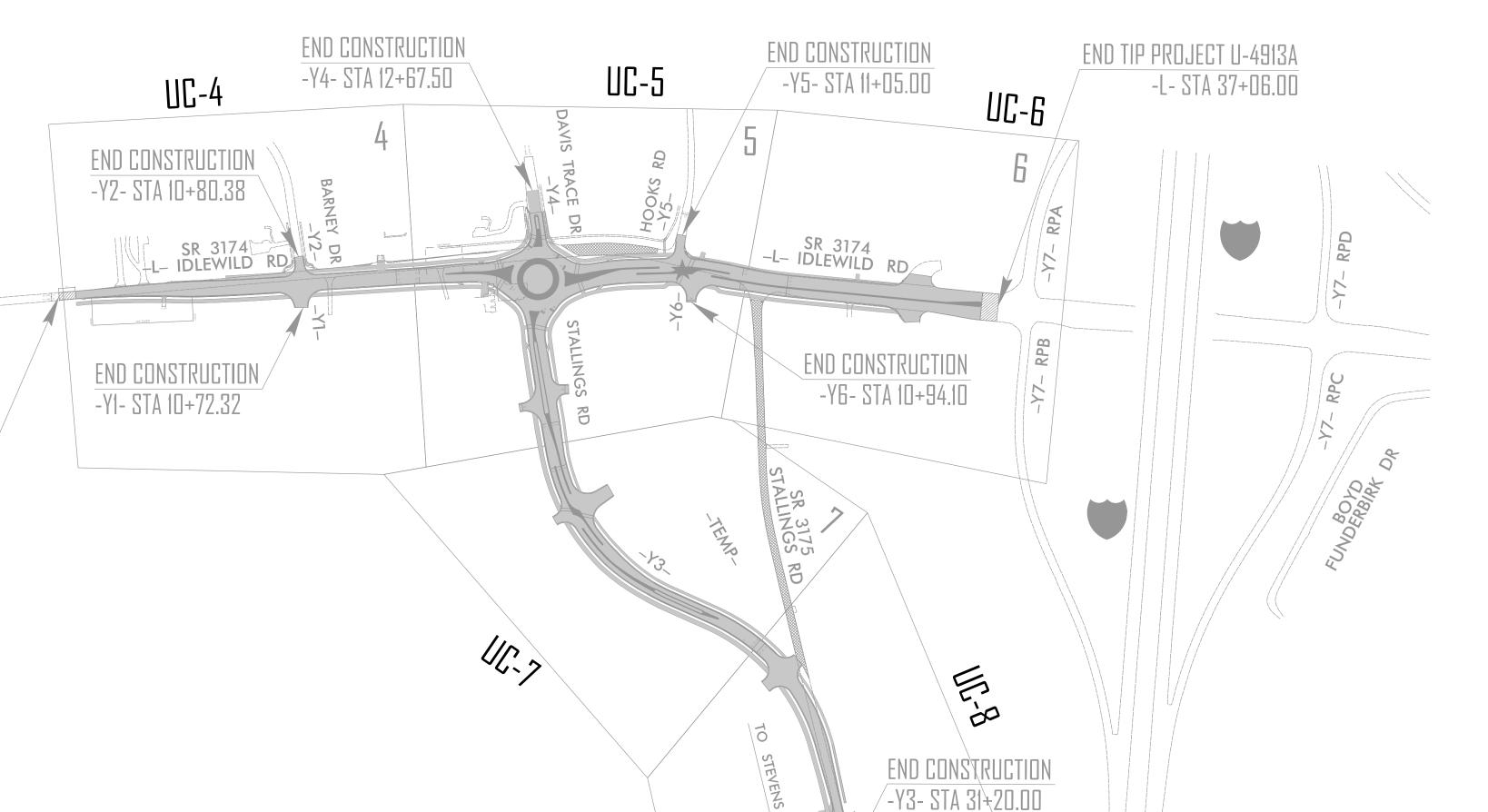
STATE OF NORTH CAROLINA DIVISION OF HIGHWAYS

UTILITY CONSTRUCTION PLANS MECKLENBURG COUNTY

LOCATION: IDLEWILD ROAD FROM BARNEY DRIVE AREA TO GOVERNOR JAMES G. MARTIN FREEWAY (I-485)

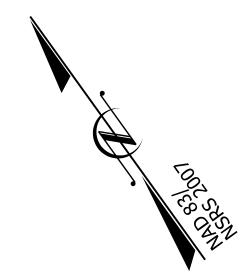
TYPE OF WORK: WATER & SEWER LINE RELOCATIONS



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

U-4913A

DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED

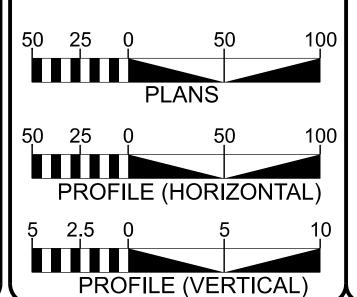


TO HEMBY BRIDGE



CMB

GRAPHIC SCALES



INDEX OF SHEETS

SHEET NO. *UC-2* UC-2A UC-3A THRU UC-3B UC-4 THRU UC-8

VICINITY MAP (NTS)

IDLEWILD RD

HOOKS RD

SITE ACCESS B

TO MATTHEWS / MINT HILL

DESCRIPTION TITLE SHEET UTILITY SYMBOLOGY PERMIT SHEET **NOTES DETAILS**

PROFILE SHEETS

UTILITY CONSTRUCTION SHEETS

BEGIN TIP PROJECT U-4913A

-L- STA 8+87.00

WATER AND SEWER OWNER ON PROJECT

(A) WATER - CHARLOTTE WATER (B) SEWER - CHARLOTTE WATER

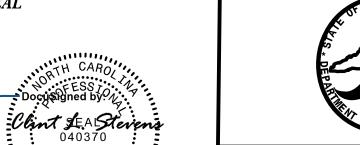


PREPARED IN THE OFFICE OF:

401 Harrison Oaks Blvd., Suite 220 Cary, NC 27513 Ph. (919) 653-0001

Clint L. Stevens, P.E. UTILITIES PROJECT MANAGER James N. Arnold

Jordan K. Chapman, E.I. UTILITIES PROJECT ENGINEER UTILITIES PROJECT DESIGNER



SEAL

9D6F32D777EB42D.

DIVISION OF HIGHWAYS DIVISION 10

716 W MAIN ST. ALBEMARLE, NC 28001 PHONE (704) 983–4400 FAX (704) 982–3146

Barry Carlton

Randy Bowers, P.E. DM-STIP PROJECT MANAGER DIVISION UTILITY ENGINEER ASSISTANT DIVISION UTILITY ENGINEER DIVISION UTILITY COORDINATOR

Docusign Envelope ID: 8BAA60A0-B2E8-48E6-8222-F6FA3A17917A

UTILITY CONSTRUCTION

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 Remove Fire Hydrant Water Meter Relocate Water Meter Remove Water Meter Water Pump Station PRPZ RPZ Backflow Preventer ... DCV Backflow Preventer Relocate RPZ Backflow Preventer... Relocate DCV Backflow Preventer

PROPOSED SEWER SYMBOLS

Gravity Sewer Line(Sized as Shown)	ss
Force Main Sewer Line (Sized as Shown)	FSS
Manhole (Sized per Note)	
Sewer Pump StationPS(SS)	

PROPOSED MISCELLANOUS UTILITIES SYMBOLS

Power Pole ······ o		Thrust Block ·····	
Telephone Pole		Air Release Valve ····································	
Joint Use Pole		Utility Vault	
Telephone Pedestal		Concrete Pier	
Utility Line by Others(Type as Shown)		Steel Pier ······	
Trenchless Installation		Plan Note	
Encasement Method	OPEN CUT	Pay Item Note ······	Y ITEM
Encasement			(A TIEM
		TI TTTEO OVADOLO	

	EXISTING UTILIT	TIES SYMBOLS	
Power Pole ····································	*	Underground Power Line	P
Telephone Pole	*	Underground Telephone Cable	Т ———
Joint Use Pole	*	Underground Telephone Conduit	ТС
Utility Pole	*	Underground Fiber Optics Telephone Cable —	Т F0
Utility Pole with Base	*	Underground TV Cable	T V
H-Frame Pole	•	Underground Fiber Optics TV Cable	TV F0
Power Transmission Line Tower	*	Underground Gas Pipeline	
Water Manhole		Aboveground Gas Pipeline	A/G Gas
Power Manhole ·····	*	Underground Water Line ······	
Telephone Manhole ①		Aboveground Water Line	A/G Water
Sanitary Sewer Manhole	*	Underground Gravity Sanitary Sewer Line —	SS
Hand Hole for Cable	5/28/2025	Aboveground Gravity Sanitary Sewer Line.	A/G Sanitary Sewer
Power Transformer		Underground SS Forced Main Line	FSS
Telephone Pedestal		Underground Unknown Utility Line	?UTL
CATV Pedestal		SUE Test Hole	
Gas Valve ······ ◊		Water Meter	
Gas Meter \Diamond		Water Valve ····································	
Located Miscellaneous Utility Object o		Fire Hydrant ····································	
Abandoned According to Utility Records AA	ΓUR	Sanitary Sewer Cleanout ⊕	
End of Information E.C).I. 		174 (MB

or Existing Utilities	
Itility Line Drawn from Record	
Designated Utility Line	

HINDE ENGINEERING

•	0 1010/1	
	UC-2A	
	NORTH CAROLINA DEPARTMENT OF TRANSPORTATION MECKLENBURG COUNTY	
	There s	

UTILITY DESIGN UNIT UTILITY CONSTRUCTION PLANS ONLY

Clint JEAStevens 9D6F32D777EB42D. NGINEER

DESIGNED BY: JK[ANL DRAWN BY: CHECKED BY: JKC APPROVED BY: CLS

> PHONE:(919)707-6690 FAX:(919)250-4151 PREPARED BY

UTILITIES ENGINEERING SEC.



APPLICATION FOR NON-DISCHARGE PERMIT **GRAVITY SEWER MAIN EXTENSION** CHARLOTTE WATER PROPOSED 8" SANITARY GRAVITY SEWER CREEK BASIN ______MCALPINE

TO SERVE NCDOT TIP U-4913A

CLTWater PROJECT NO.: CPM-40-25-304

PROJECT NAME

PROJECT TYPE: NEW CONSTRUCTION RELOCATION MODIFICATION OF PERMIT NO.

VOLUME OF WASTEWATER GENERATED BY THIS PROJECT: N/A GALLONS PER DAY BASED ON 190 GAL/DAY/SINGLE FAMILY HOUSEHOLD X N/A HOUSEHOLDS OR

135 GAL/DAY/MULTI-FAMILY UNIT X _____N/A ___UNITS OR IS BASED ON :

WASTEWATER TREATMENT PLANT RECEIVING WASTEWATER:

McDOWELL CR. (NC0036277) ☐ IRWIN CR. (NC0024945) SUGAR CR. (NC0024937)

NATURE OF WASTEWATER 60 % DOMESTIC % INDUSTRIAL

ORIGIN OF WASTEWATER SUBDIVISION **⊠**COMMERCIAL INDUSTRIAL APARTMENTS/CONDO'S OTHER ___

LIST ANY PARAMETER AND ITS CONCENTRATION THAT WILL BE GREATER THAN NORMAL DOMESTIC LEVELS:

IF WASTEWATER IS NON-DOMESTIC, DESCRIBE LEVEL OF PRETREATMENT:

IF A PRETREATMENT PERMIT IS REQUIRED, HAS ONE BEEN ISSUED? YES NO HAS ENGINEER DETERMINED THAT DOWNSTREAM SEWERS ARE CAPABLE TO HANDLE THIS FLOW? PERMIT NO. FOR SEWERS IMMEDIATELY DOWNSTREAM ____

HAS ENGINEER DETERMINED THAT NC DEM AND CLTWater MINIMUM DESIGN STANDARDS ARE MET BY THIS PROJECT? ⊠YES □ NO

COMPLETE NAME AND ADDRESS OF ENGINEERING DESIGN FIRM: HINDE ENGINEERING, INC. 401 HARRISON OAKS BLVD, SUITE 220

PIPE DIAMETER OF SEWERS IMMEDIATELY DOWNSTREAM ______

CARY, NORTH CAROLINA 27513 TELEPHONE _______ 704 ____ - ______ 814 ____ - _____ 4407____

PROFESSIONAL ENGINEER'S CERTIFICATION: I, __________, ATTEST THAT THIS APPLICATION FOR _______8-INCH SANITARY GRAVITY SEWER TO SERVE NCDOT TIP U-4913A HAS BEEN REVIEWED BY ME AND IS ACCURATE AND COMPLETE TO THE BEST OF MY KNOWLEDGE. I FURTHER ATTEST THAT TO THE BEST OF MY KNOWLEDGE THE PROPOSED DESIGN HAS BEEN PREPARED IN ACCORDANCE WITH THE APPLICABLE REGULATIONS. ALTHOUGH CERTAIN PORTIONS OF THIS SUBMITTAL PACKAGE MAY HAVE BEEN DEVELOPED BY OTHER PROFESSIONALS, INCLUSION OF THESE MATERIALS UNDER MY SIGNATURE AND SEAL SIGNIFIES THAT I HAVE REVIEWED THIS MATERIAL AND HAVE JUDGED IT TO BE CONSISTENT WITH THE PROPOSED DESIGN.

NORTH CAROLINA PROFESSIONAL ENGINEER'S SEAL, SIGNATURE, AND DATE:



CLTWater PERMIT NO. ______ ISSUED _____ PLANT FLOW ALLOCATION RECORDED BY: Signed by: Joseph C Wilson, PE PERMIT APPROVED BY: _____ JOSEPH C WILSON, P.E., CHIEF ENGINEER

Docusign Envelope ID: 12E1023B-1FEF-48F5-824F-10886741383C

UTILITY CONSTRUCTION

U-4913A NORTH CAROLINA

UTILITY DESIGN UNIT

UTILITY CONSTRUCTION PLANS ONLY Clint LEAStevens 9D6F32D777EB42D.

DESIGNED BY: JNA RAWN BY: CHECKED BY: JKC CLS PPROVED BY: JTILITIES ENGINEERING SEC. PHONE:(919)707-6690

FAX:(919)250-4151



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 2024.
- 2. THE EXISTING WATER AND SEWER FACILITIES BELONG TO CHARLOTTE WATER.
- 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 ENVIRONMENT 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. ALL SANITARY GRAVITY SEWER PIPE SHALL BE DUCTILE IRON PRESSURE CLASS 350, UNLESS OTHERWISE NOTED ON THE UTILITY CONSTRUCTION PLANS.
- 2. ALL RECONNECT AND RELOCATE WATER METERS ON AN EXISTING WATER MAIN SHALL HAVE NEW SERVICE LINE INSTALLED TO THE EXISTING CORPORATION STOP.
- 3. ALL BACKFLOW PREVENTORS ARE THE RESPONSIBILITY OF THE PROPERTY OWNER.
- 4. CONTRACTOR IS REQUIRED TO CONTACT LOGAN HEDRICK, CLTWATER ENGINEERING PROJECT MANAGER, AT (980) 253-4390 AT LEAST 2 WEEKS PRIOR TO ANY WATER AND SEWER CONSTRUCTION.
- 5. HINDE ENGINEERING RESPONSIBLE FOR WATER AND SEWER RELOCATIONS ALONG IDLEWILD ROAD FROM BEGINNING OF PROJECT TO DAVIS TRACE DRIVE. ALL OTHER RELOCATONS AND BETTERMENT TO BE DONE BY OTHERS.

Docusign Envelope ID: 8BAA60A0-B2E8-48E6-8222-F6FA3A17917A

UTILITY CONSTRUCTION



UTILITY DESIGN UNIT UTILITY CONSTRUCTION PLANS ONLY

Docustigned by 906F32D777EB42D.

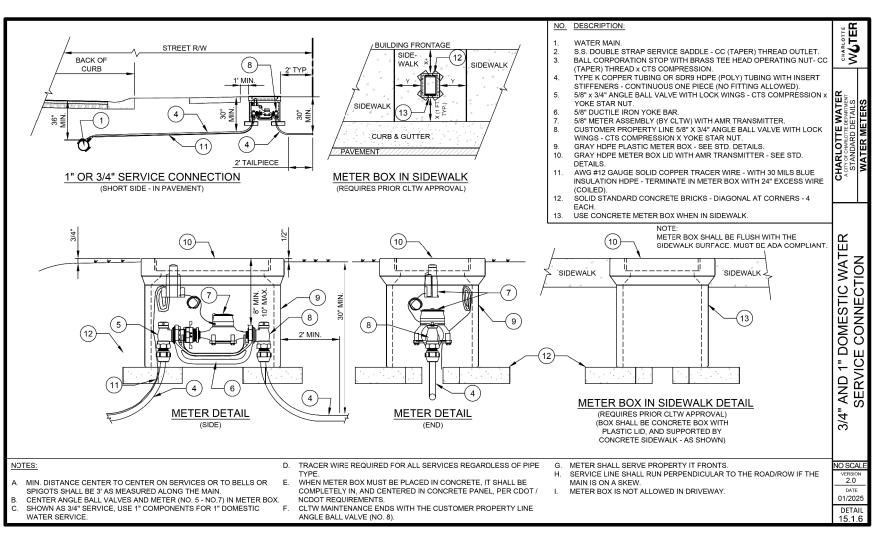
DOCUMENT NOT UNLESS ALL SIGN	CONSIDERED FIN NATURES COMPLE
DESIGNED BY:	JKC
DRAWN BY:	ANL
CHECKED BY:	JKC
APPROVED BY:	CLS

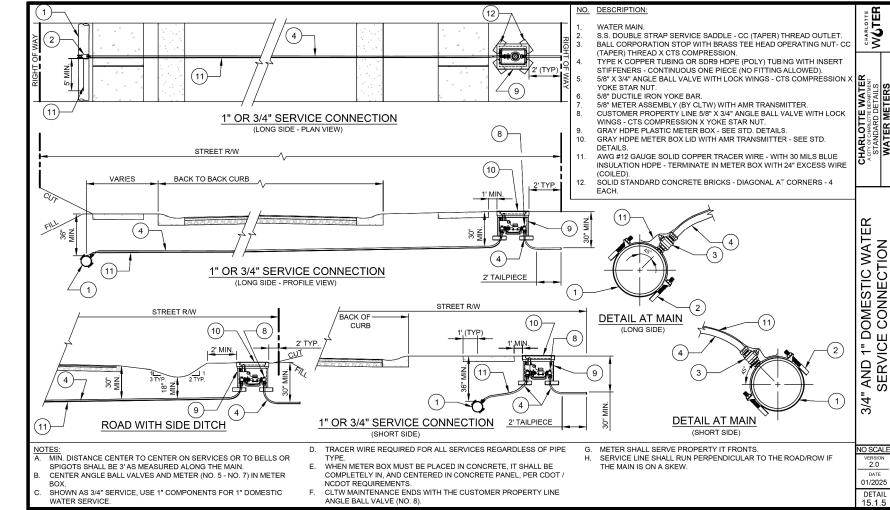
REVISED: UTILITIES ENGINEERING SEC.

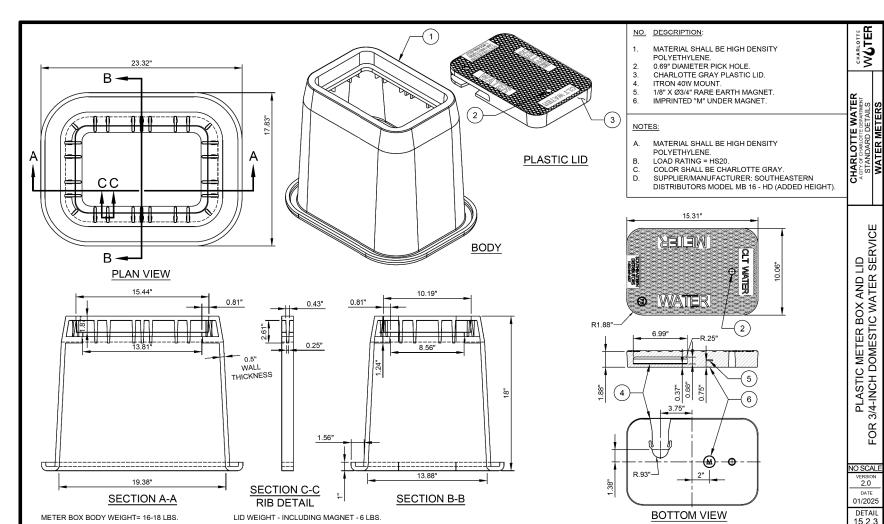
PHONE:(919)707-6690 FAX:(919)250-4151 PREPARED BY

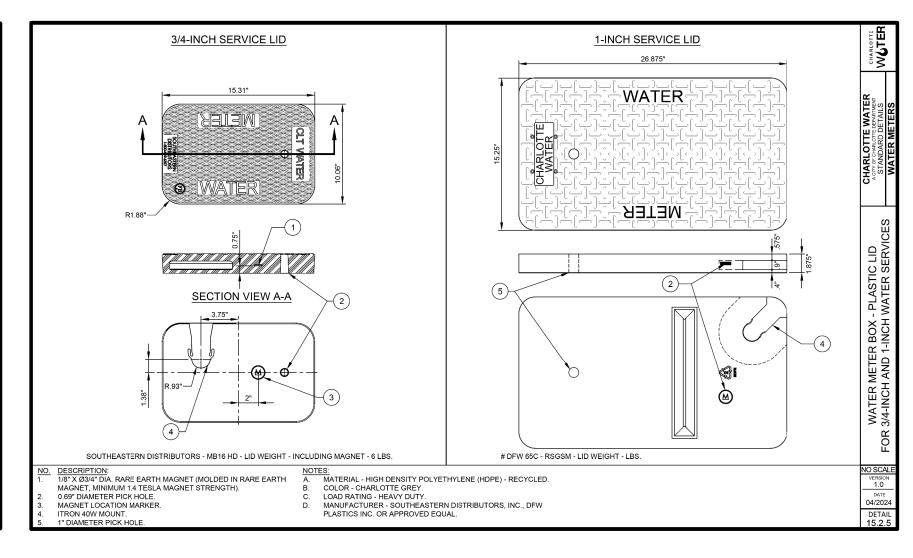


PROJECT DETAILS

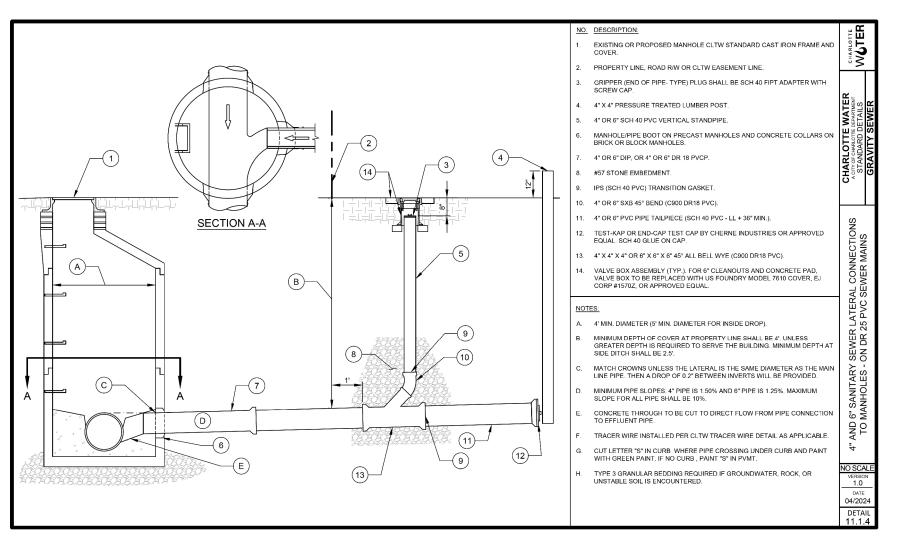


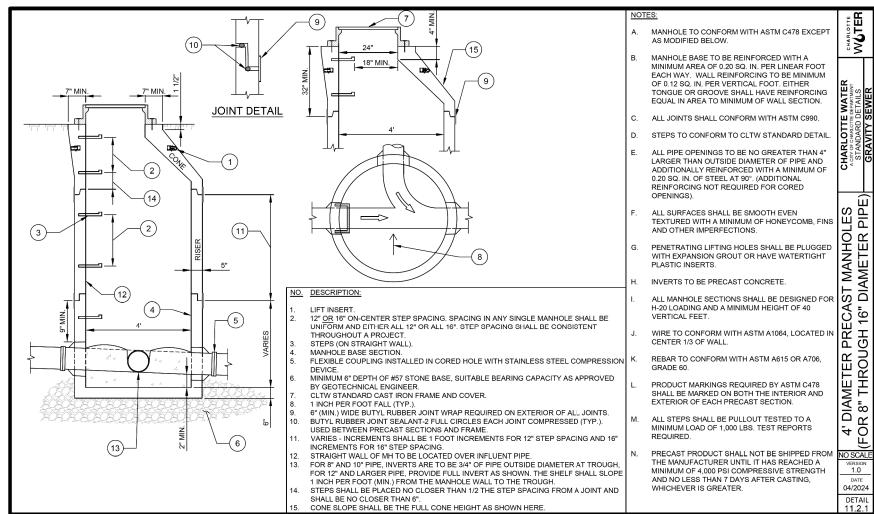


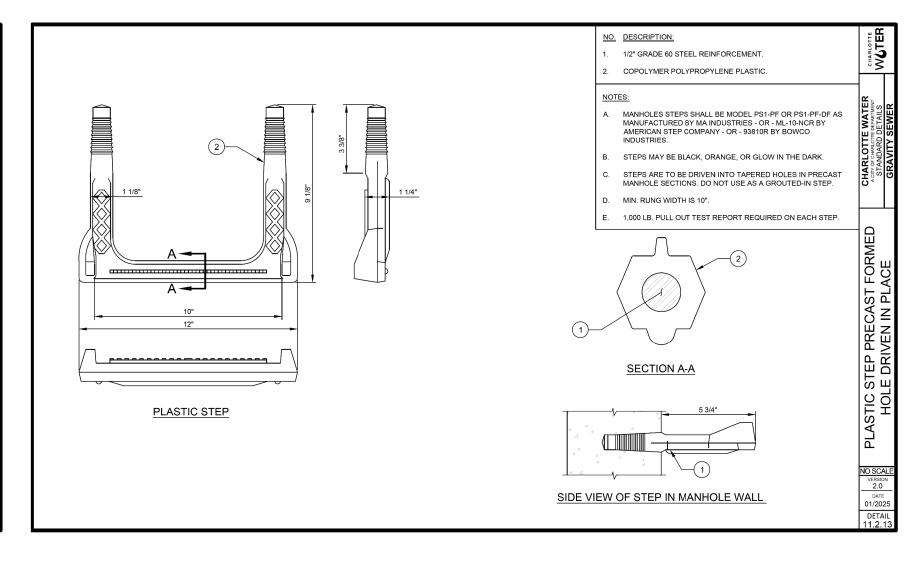


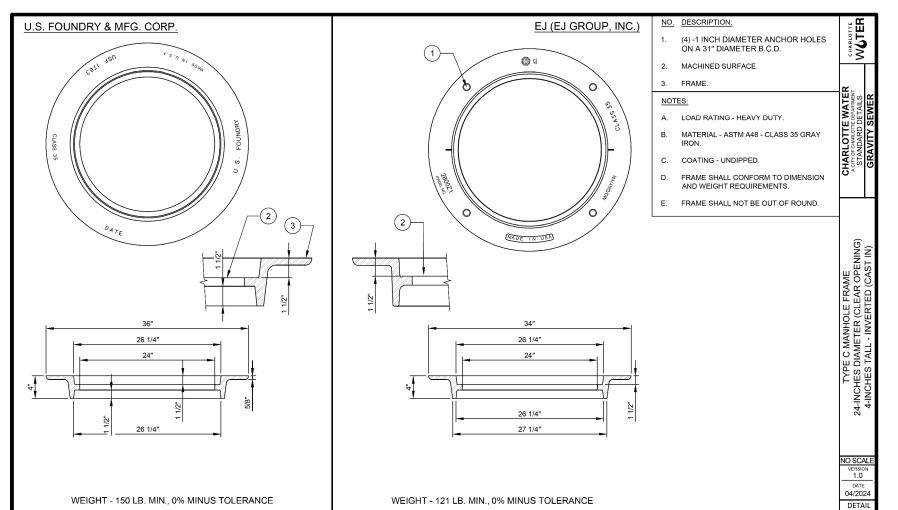


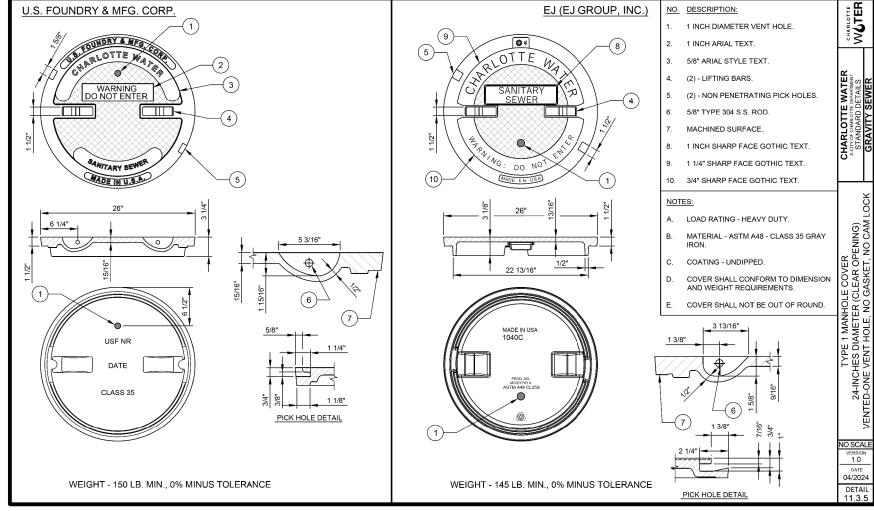
PROJECT DETAILS

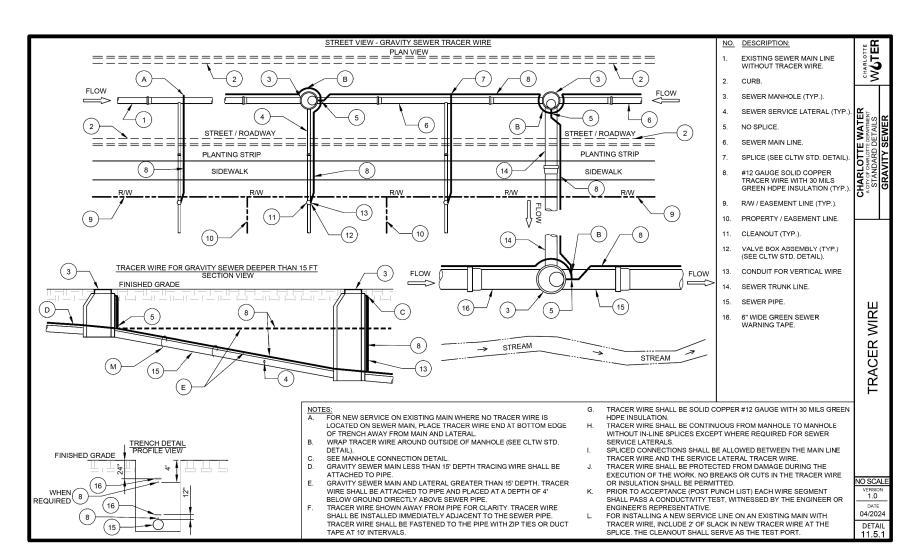


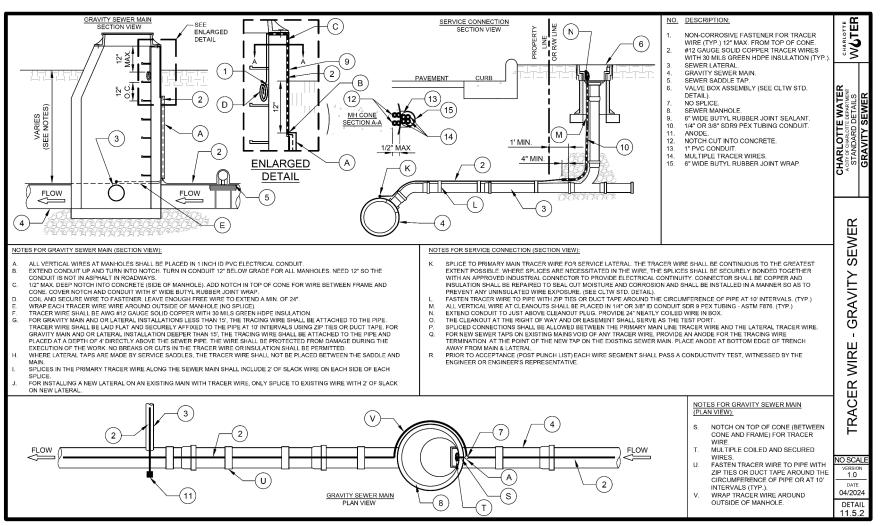


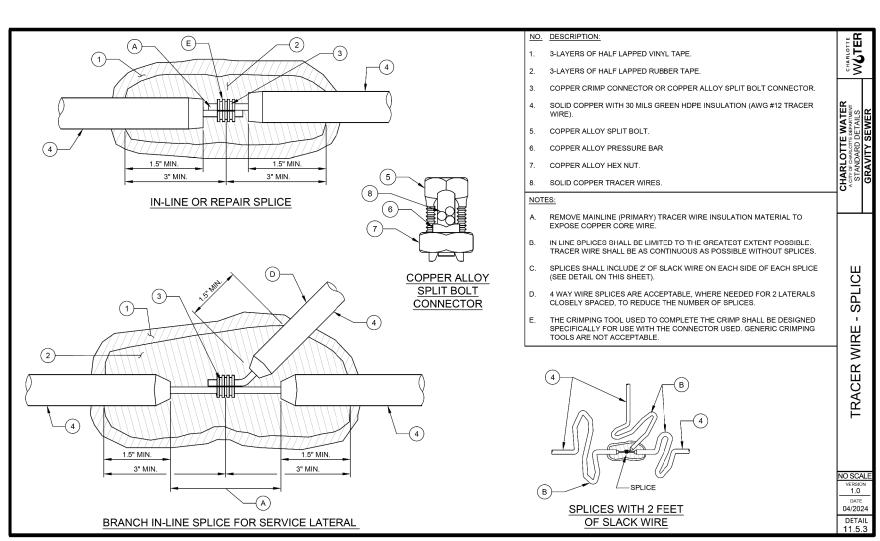


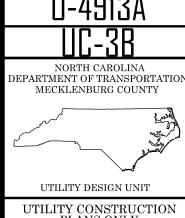










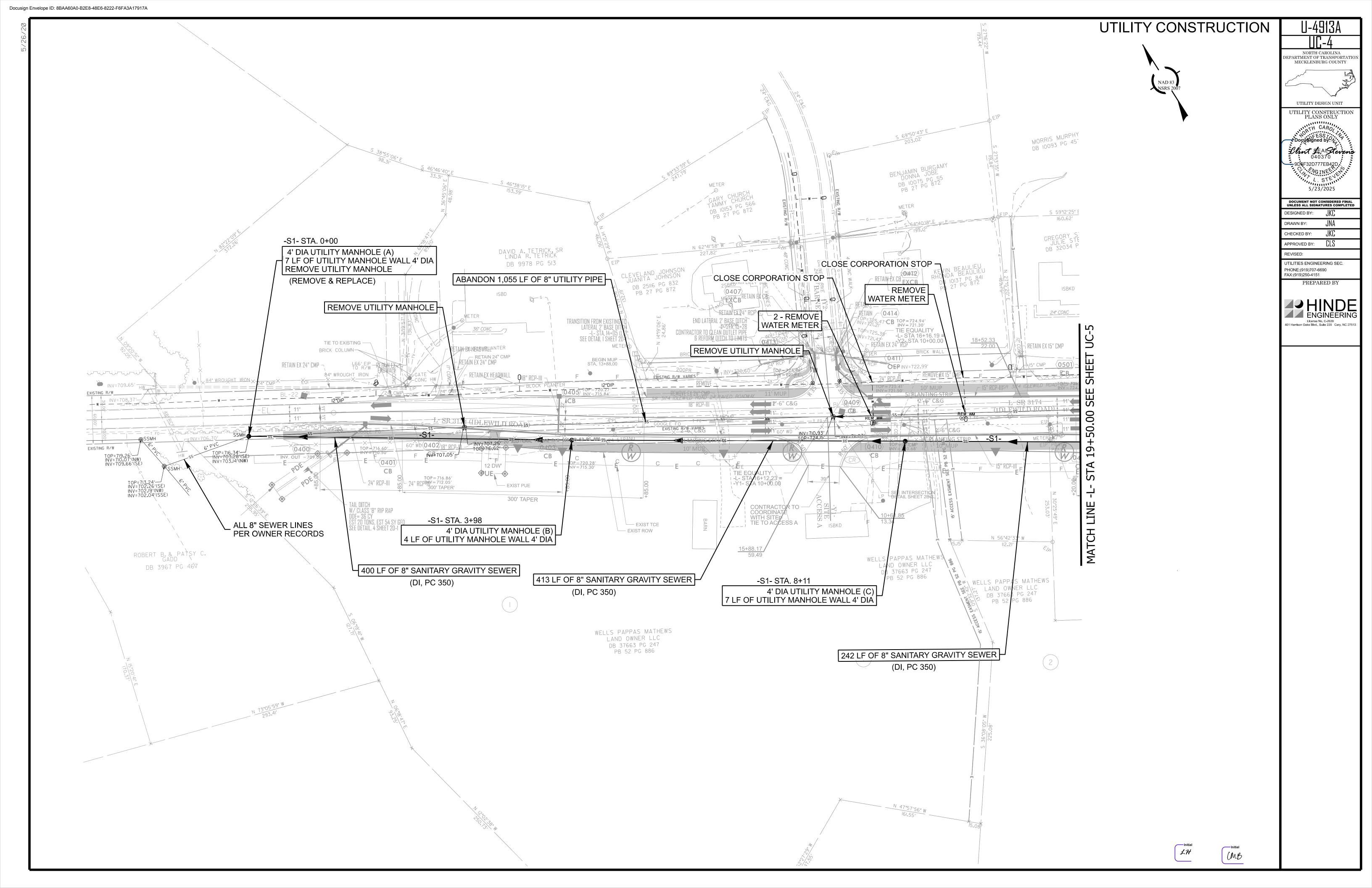


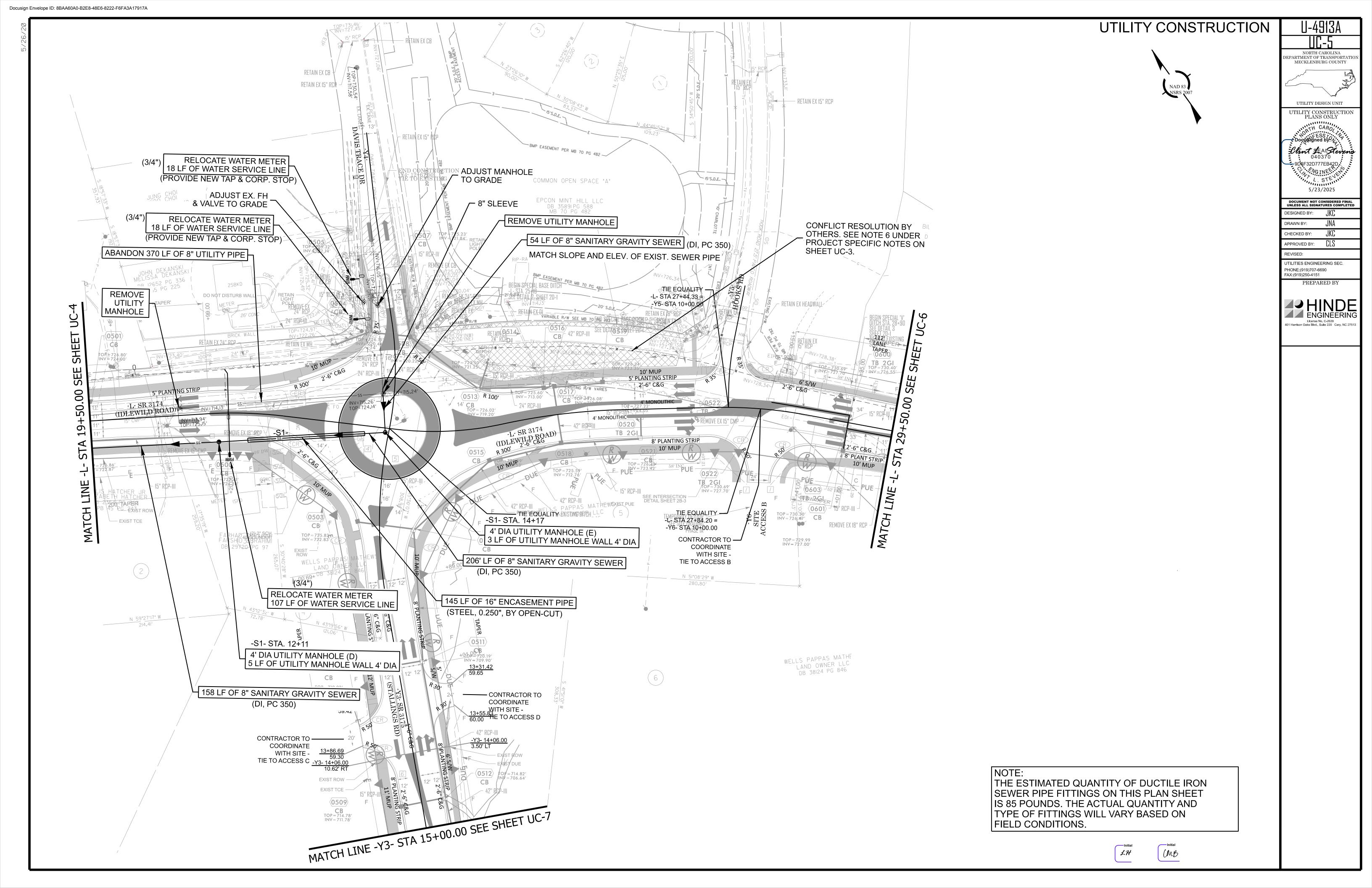
UTILITY CONSTRUCTION PLANS ONLY NGINEE

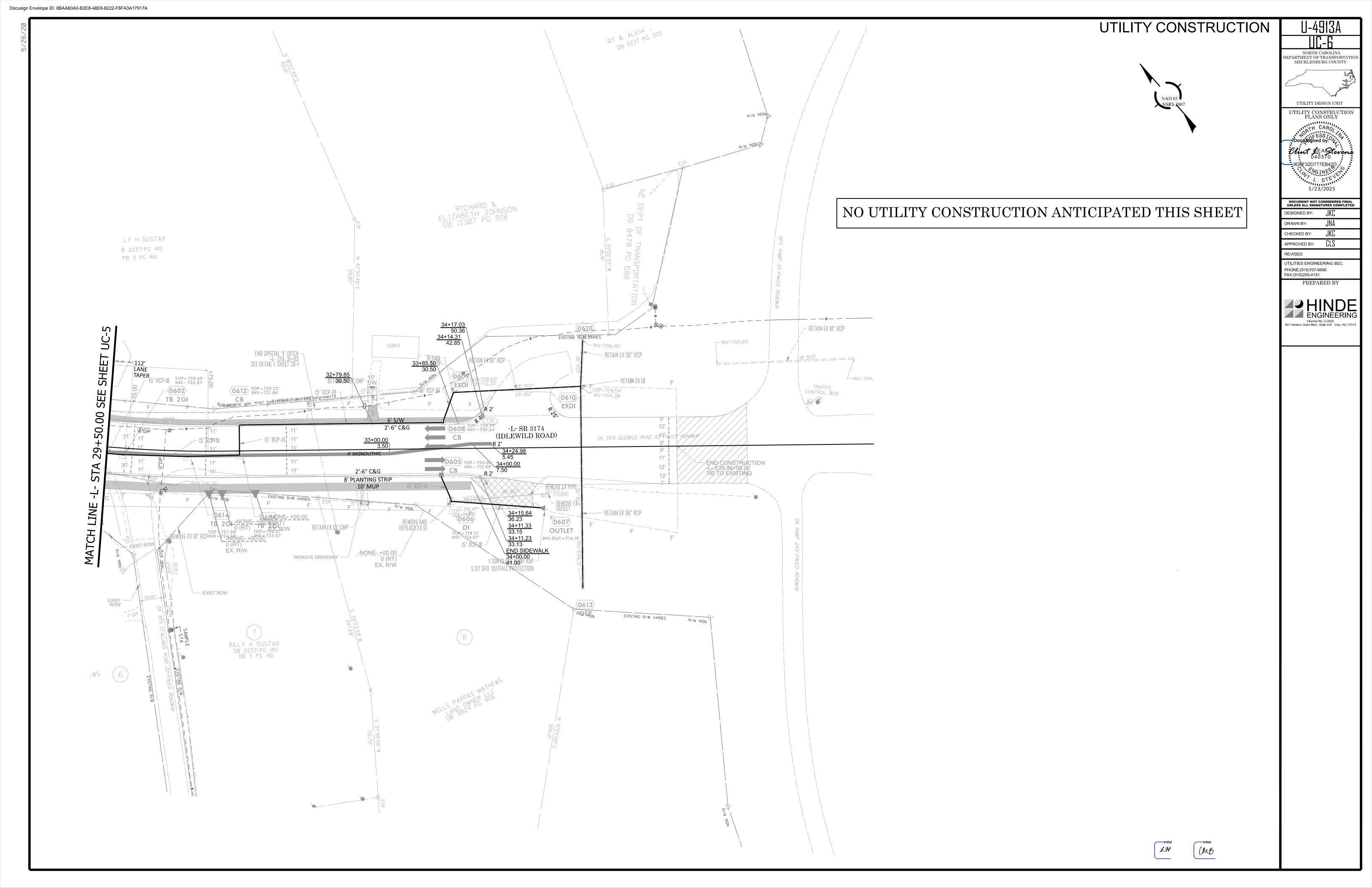
DESIGNED BY: JNA DRAWN BY: JKC CHECKED BY: PPROVED BY: REVISED: UTILITIES ENGINEERING SEC.

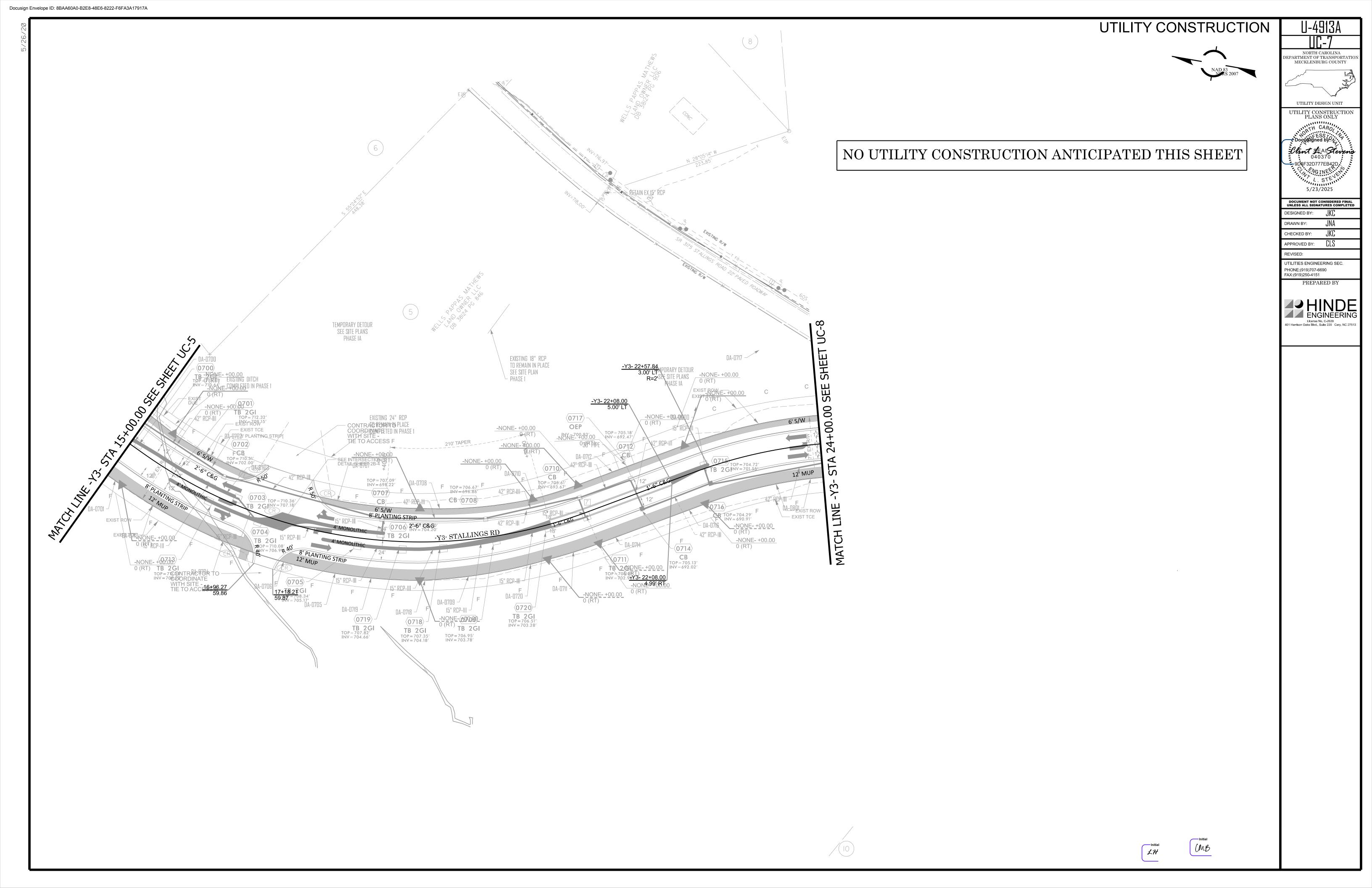
PHONE:(919)707-6690 FAX:(919)250-4151 PREPARED BY



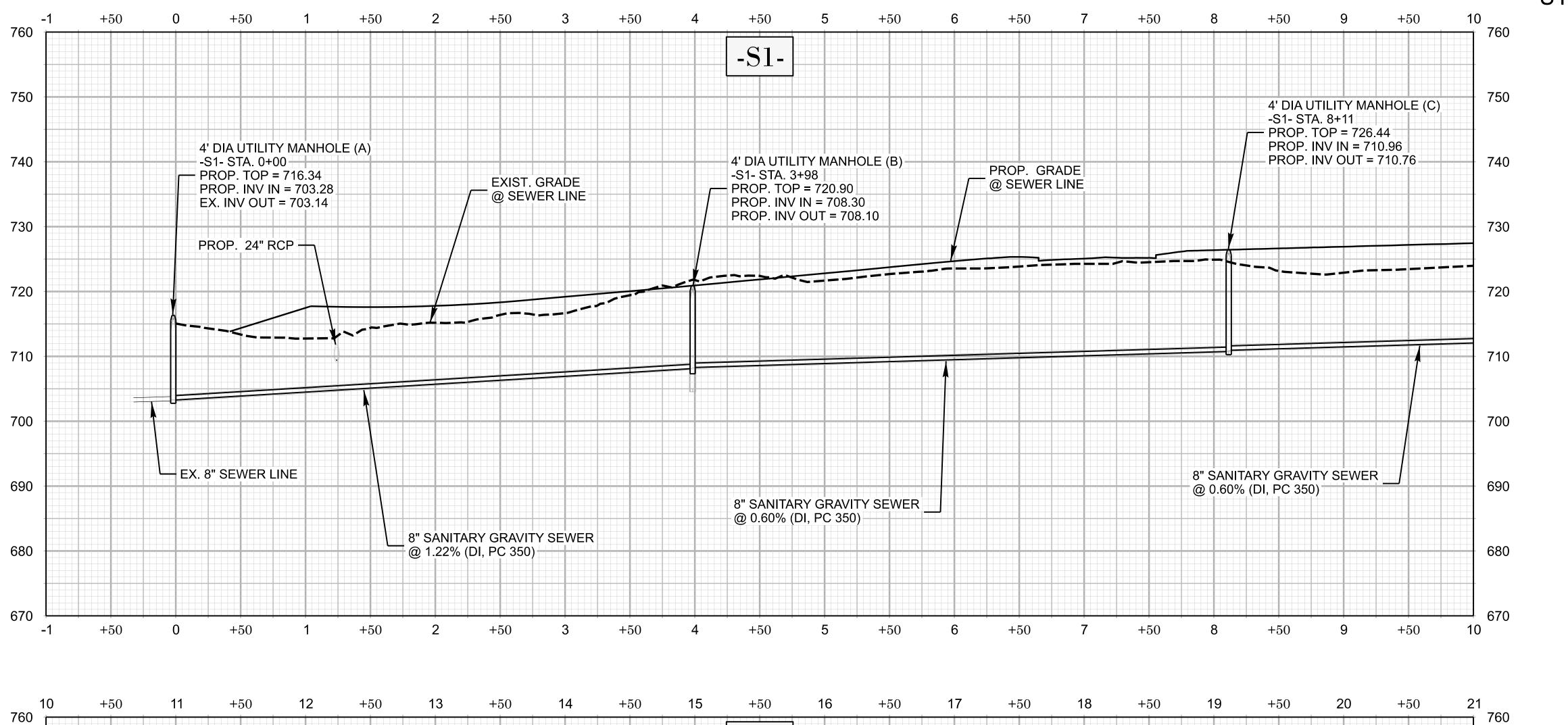


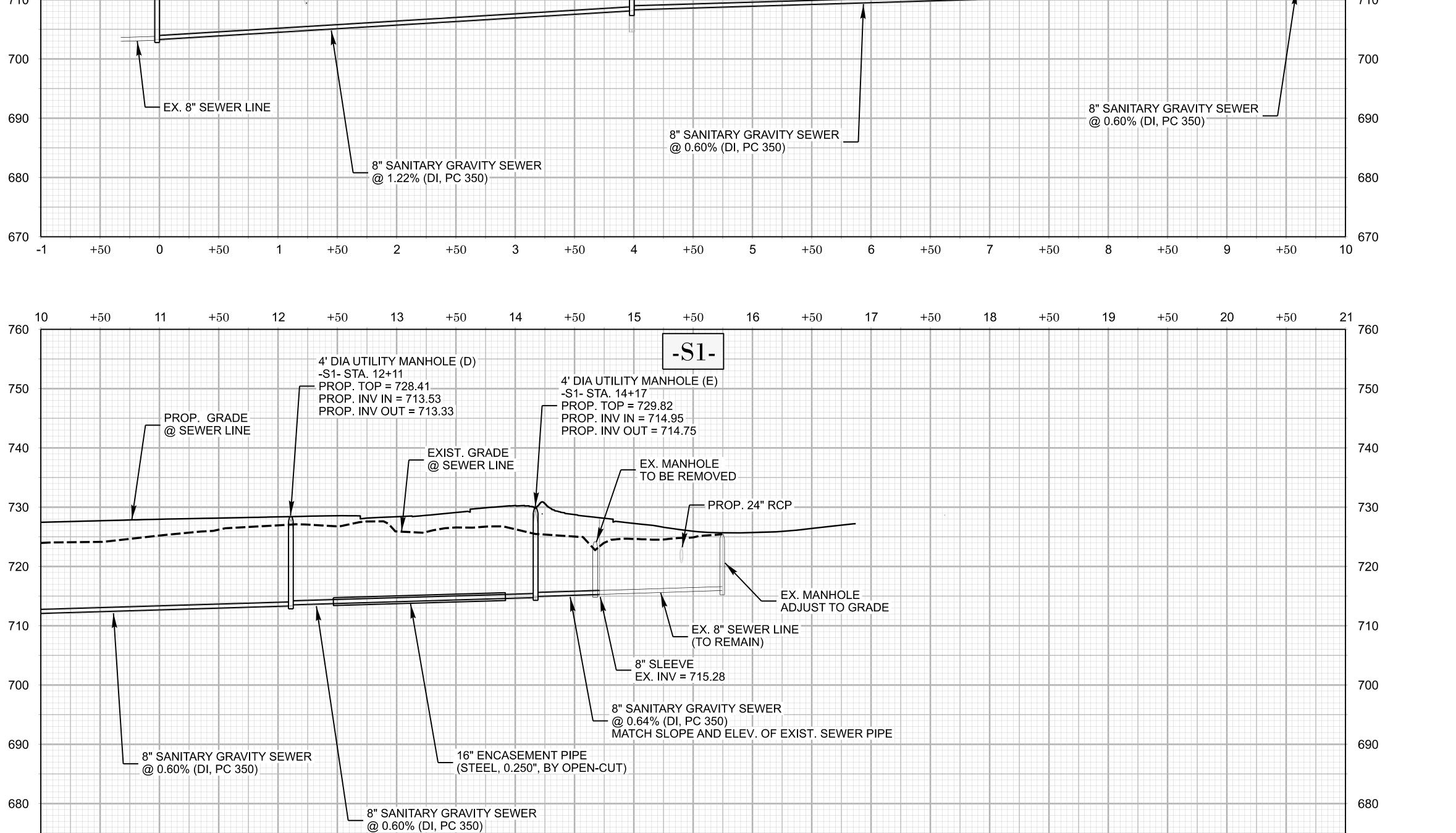












+50

+50

16

+50

17

+50

18

670

+50

+50

12

NORTH CAROLINA

PARTMENT OF TRANSPORTATION MECKLENBURG COUNTY

UTILITY DESIGN UNIT



	CONSIDERED FINAL ATURES COMPLETED
DESIGNED BY:	JKC
DRAWN BY:	JNA
CHECKED BY:	JKC
APPROVED BY:	CLS
REVISED:	
UTILITIES ENGINE	ERING SEC.
PHONE:(919)707-6690 FAX:(919)250-4151	





21

+50

