BEGIN PROJECT

EXD PROJECT

VICINITY MAP <sub>NTS</sub>



U-6018

T.I.P. NO.

UC-01

# UTILITY CONSTRUCTION PLANS GUILFORD COUNTY

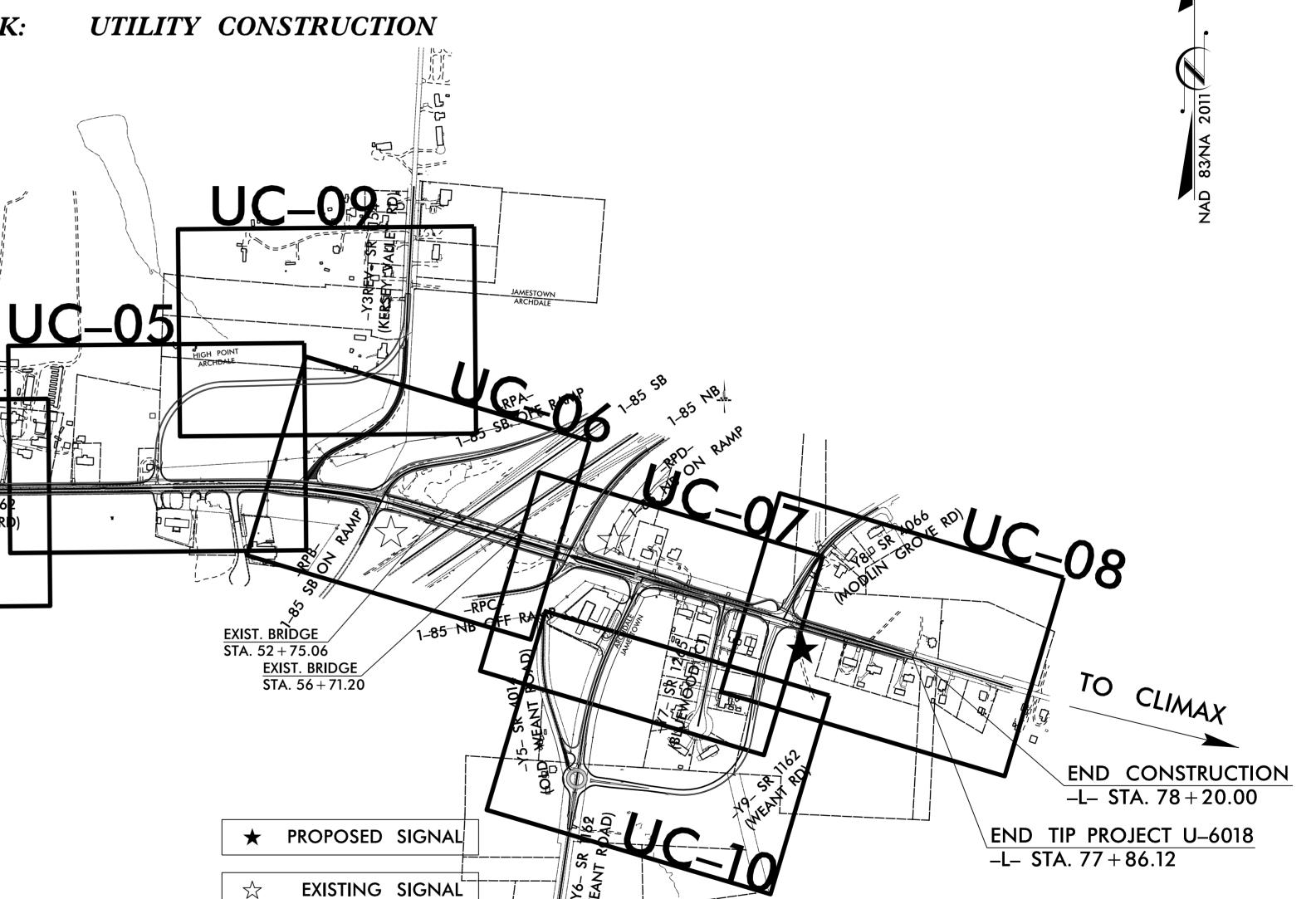
**DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED** 

LOCATION: WIDENING OF NC 62 (LIBERTY RD) FROM EAST OF

NC 610 (E. FAIRFIELD RD) TO EAST OF SR 4066 (MODLIN GROVE RD) AND THE REALIGNMENT OF

SR 1154 (KERSEY VALLEY RD) AND SR 1162 (WEANT RD)

TYPE OF WORK:



GRAPHIC SCALES **PLANS** PROFILE (HORIZONTAL) PROFILE (VERTICAL)

### INDEX OF SHEETS

BEGIN TIP PROJECT U-6018

\_L\_ STA. 26±70.00

SHEET NO.: **DESCRIPTION:** 

TITLE SHEET UC-01 UTILITY SYMBOLOGY *UC-02* 

**NOTES** *UC-03* **DETAILS** UC-03A

UC-04 THRU UC-10 UTILITY CONSTRUCTION SHEETS UC-11 THRU UC-16 PROFILE SHEETS

WATER AND SEWER OWNERS ON PROJECT

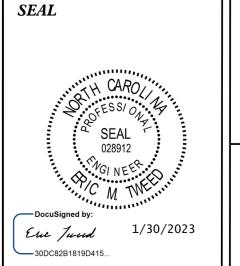
(A) WATER: CITY OF ARCHDALE (B) SANITARY SEWER: CITY OF ARCHDALE



RALEIGH, NC 27607 PHONE: 919.929.1173 FAX: 919.493.6548 NC LICENSE #P-0189

ERIC TWEED, PE UTILITY ENGINEER

MARY JO LEE, PE UTILITY PROJECT MANAGER





DIVISION OF HIGHWAYS DIVISION 7

PO BOX 14996 1584 YANCEYVILLE STREET GREENSBORO, NC 27415

DIV UTILITY COORDINATOR BRIAN KETNER, PE DIV PROJECT ENGINEER PATTY EASON, PE DIV CONSTRUCTION ENGINEER

BOBBY NORRIS, PE DISTRICT 2 ENGINEER

SHEET NO. PROJECT REFERENCE NO. U-6018 UC-02

# UTILITIES PLAN SHEET SYMBOLS

## PROPOSED WATER SYMBOLS

## Water Line (Sized as Shown) 11½ 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 REM WM Remove Water Meter Water Pump Station · PS(W) RPZ Backflow Preventer DCV Backflow Preventer Relocate RPZ Backflow Preventer RBFP Relocate DCV Backflow Preventer PROPOSED SEWER SYMBOLS Gravity Sewer Line (Sized as Shown) Force Main Sewer Line

## PROPOSED MISCELLANOUS UTILITIES SYMBOLS

ower Pole	Thrust Block
elephone Pole	Air Release Valve
oint Use Pole	Utility Vault
elephone Pedestal ····································	Concrete Pier
tility Line by Others Type as Shown)	Steel Pier
renchless Installation	Plan Note
ncasement by Open Cut	Pay Item Note
ncasement	PAY ITEM

	EXISTING UTILI	TIES SYMBOLS	
Power Pole ·····	•	*Underground Power Line	
Telephone Pole	•-	*Underground Telephone Cable	T
Joint Use Pole	<b>→</b> -	*Underground Telephone Conduit	— — тс— — — — —
Utility Pole	•	*Underground Fiber Optics Telephone Cable ——	—————————————————————————————————————
Utility Pole with Base		*Underground TV Cable	
H-Frame Pole	•—•	*Underground Fiber Optics TV Cable	— — — TV FO— — — —
Power Transmission Line Tower		*Underground Gas Pipeline	c
Water Manhole	₩	Aboveground Gas Pipeline	A/G Gas
Power Manhole	®	*Underground Water Line	w
Telephone Manhole	$\odot$	Aboveground Water Line	A/G Water
Sanitary Sewer Manhole		*Underground Gravity Sanitary Sewer Line	ss
Hand Hole for Cable	H <sub>H</sub>	Aboveground Gravity Sanitary Sewer Line	A/G Sanitary Sewer
Power Transformer		*Underground SS Forced Main Line	FSS
Telephone Pedestal	T	Underground Unknown Utility Line	- — ?UTL— — — — —
CATV Pedestal		SUE Test Hole	
Gas Valve	$\Diamond$	Water Meter $ exttt{$ o$}$	
Gas Meter	<b>♦</b>	Water Valve ····································	
Located Miscellaneous Utility Object	$\odot$	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**

### **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 UTILITIES BELONG TO THE CITY OF ARCHDALE.
- 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. PROPOSED WATER LINE FOR WL-F AND WL-H SHALL BE D.I.R.J. (DUCTILE IRON RESTRAINED JOINT) PIPE.
- 2. 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.
- 3. PER THE SPECIAL CONDITIONS REGARDING AIR RELEASE VALVES: The air release valve shall have stainless steel body and components and shall be from ARI, Val-Matic, DeZurik or equal. Inlet size shall be 1"diameter. A stainless steel quick-disconnect device shall be installed between the Air Release Valve and the isolation valve. Isolation valve shall be 1"stainless steel ball valve mounted to the tapping sleeve. Tapping sleeve shall be Romac 202NS saddle, Mueller, Ford or approved equal with 1"outlet size, NBR gasket, and stainless steel bolts, washers and stainless steel double straps...

ENGINEERING
DIVISION OF PENNONI

5430 WADE PARK BLVD., SUITE 106,
RALEIGH, NC 27607 PHONE: 919.929.1173
FAX: 919.493.6548 NC LICENSE #P-0189

PROJECT REFERENCE NO. SHEET NO.

U-6018

DESIGNED BY: EMT

DRAWN BY: EMT

CHECKED BY: BAW

APPROVED BY:

REVISED:

NORTH CAROL INA
DEPARTMENT OF
TRANSPORTATION

UTILITIES ENGINEERING SEC.
PHONE: (919)707-6690
FAX: (919)250-4151

NORTH CAROL INA
DEPARTMENT OF
TRANSPORTATION

UTILITIES ENGINEERING SEC.
PHONE: (919)707-6690
FAX: (919)250-4151

#### UTILITY CONSTRUCTION

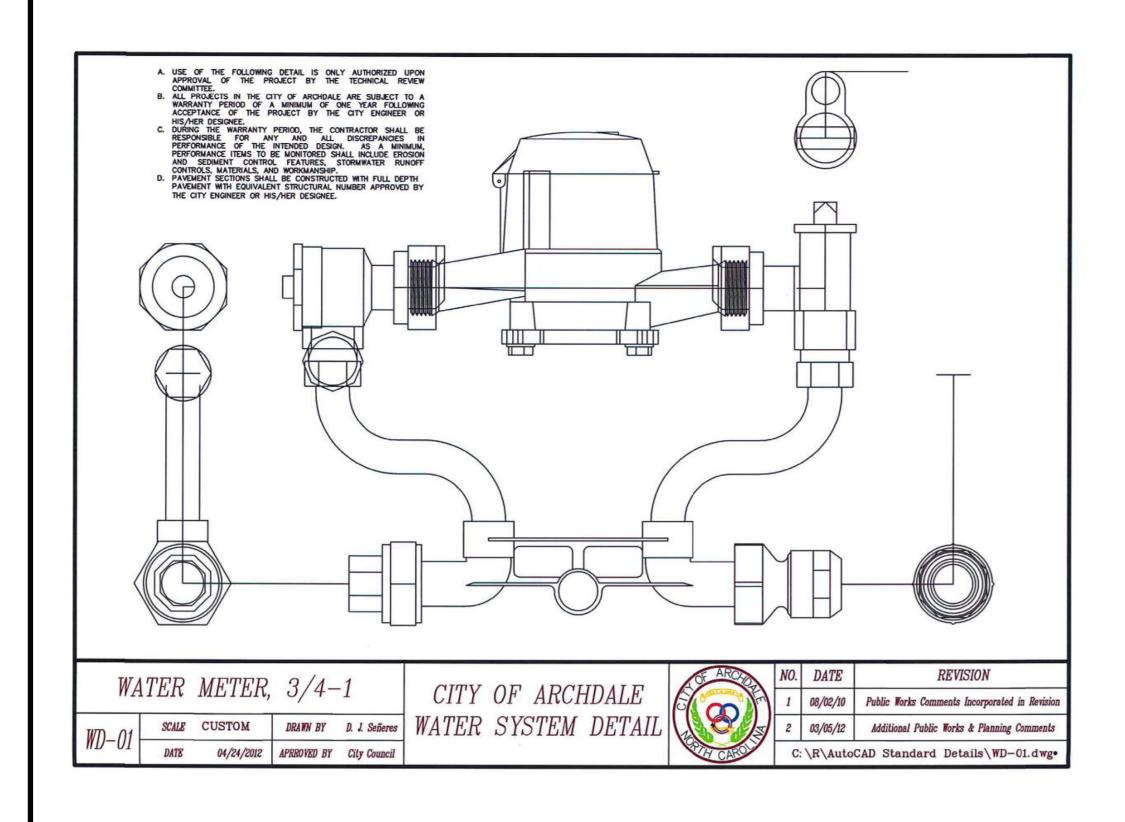
DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED

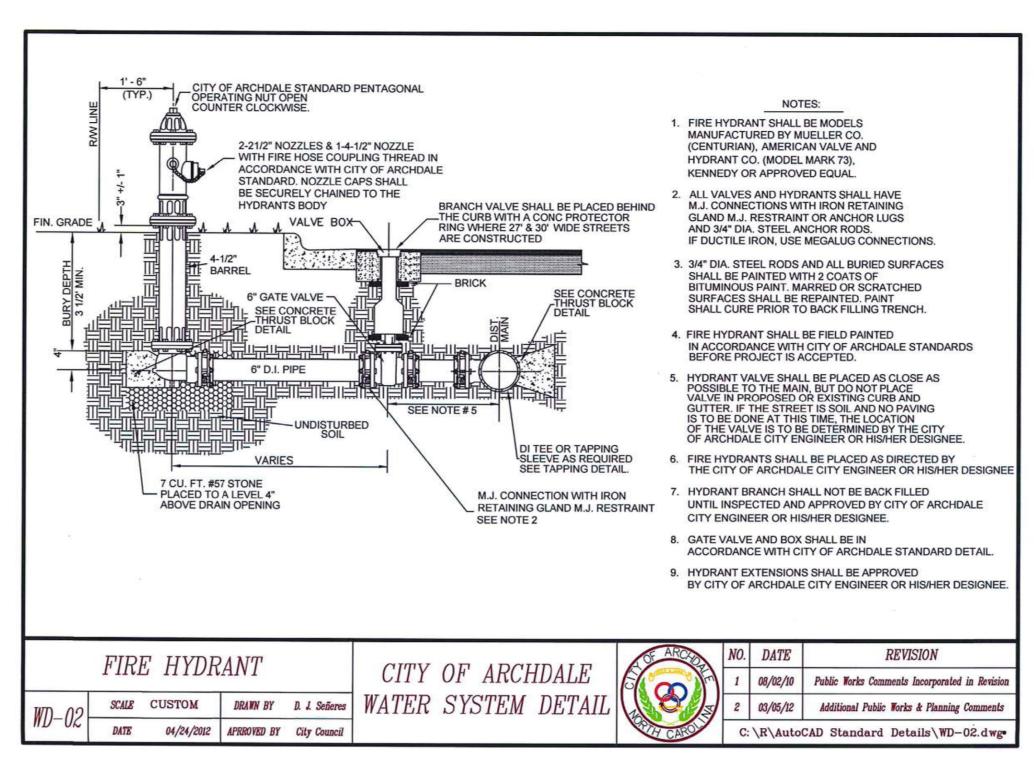
igineering voo voogio-u t-a ti-utoo-psn.agn FRNAMF

4/16/2025

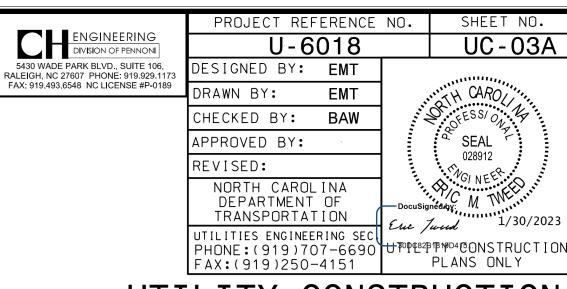
DocuSign Envelope ID: 654078E4-7CC0-406B-9D0B-6CEC4F16AFD3

# PROJECT TYPICAL DETAILS



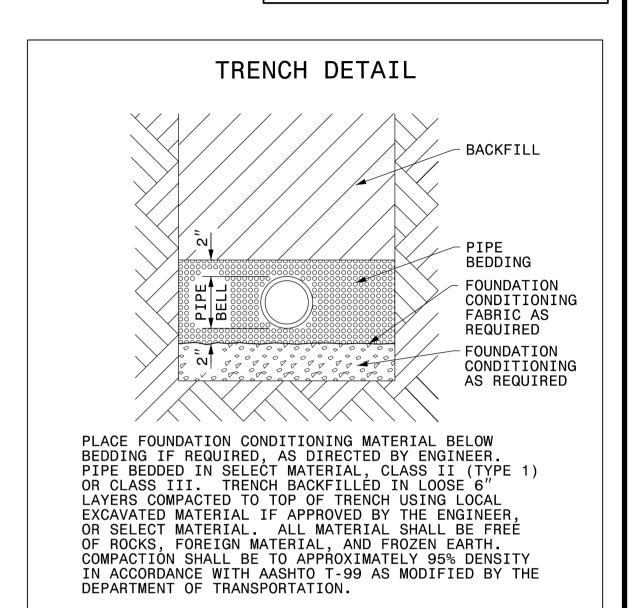


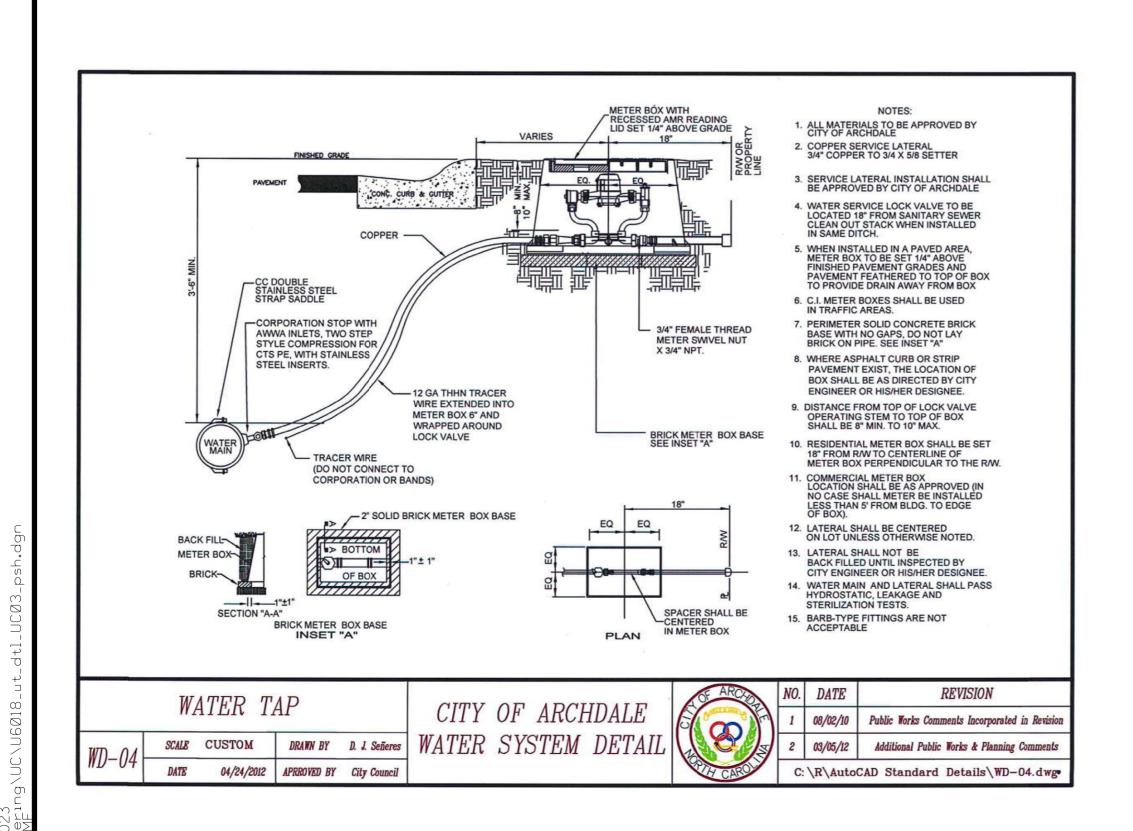
NOTE: FIRE HYDRANTS SHALL HAVE 5" STORZ NOZZLE

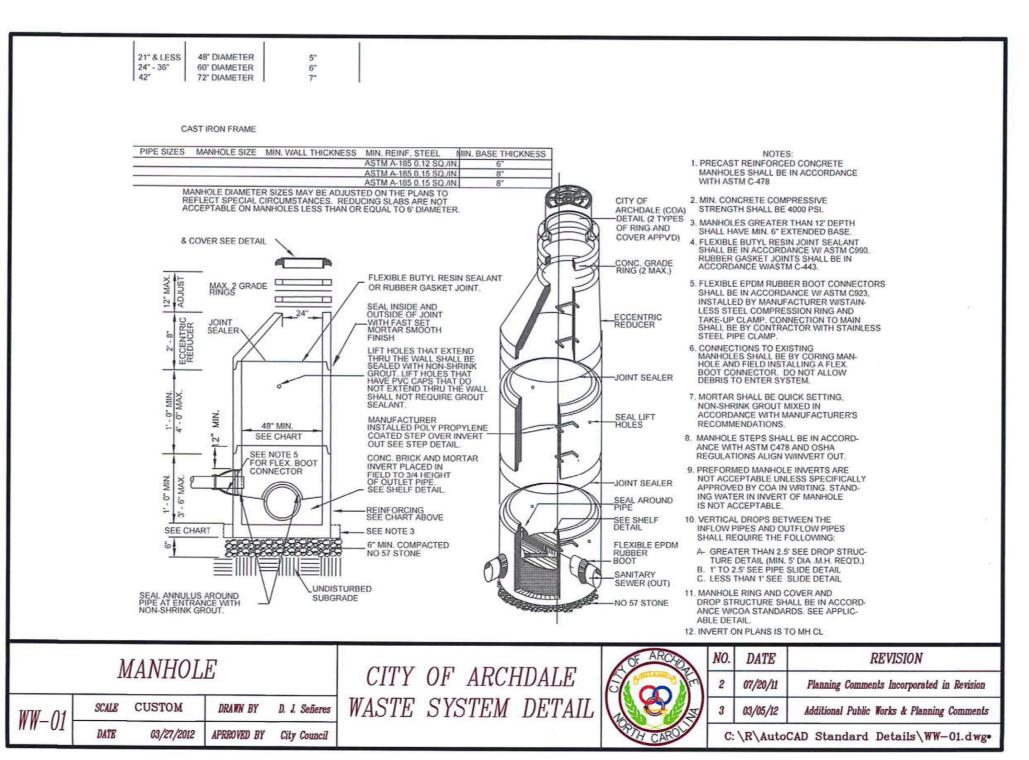


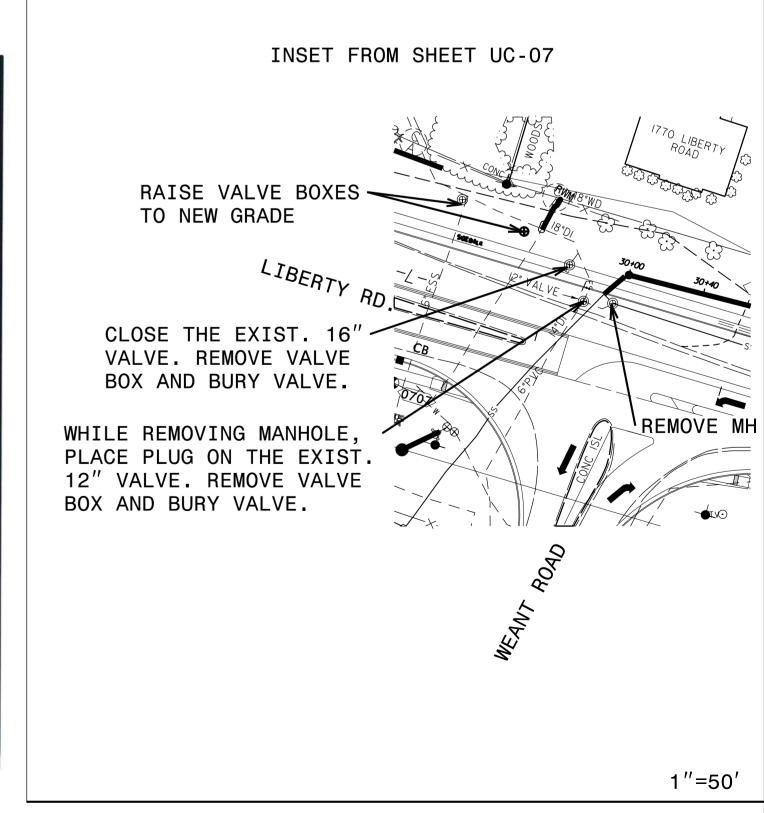
#### UTILITY CONSTRUCTION

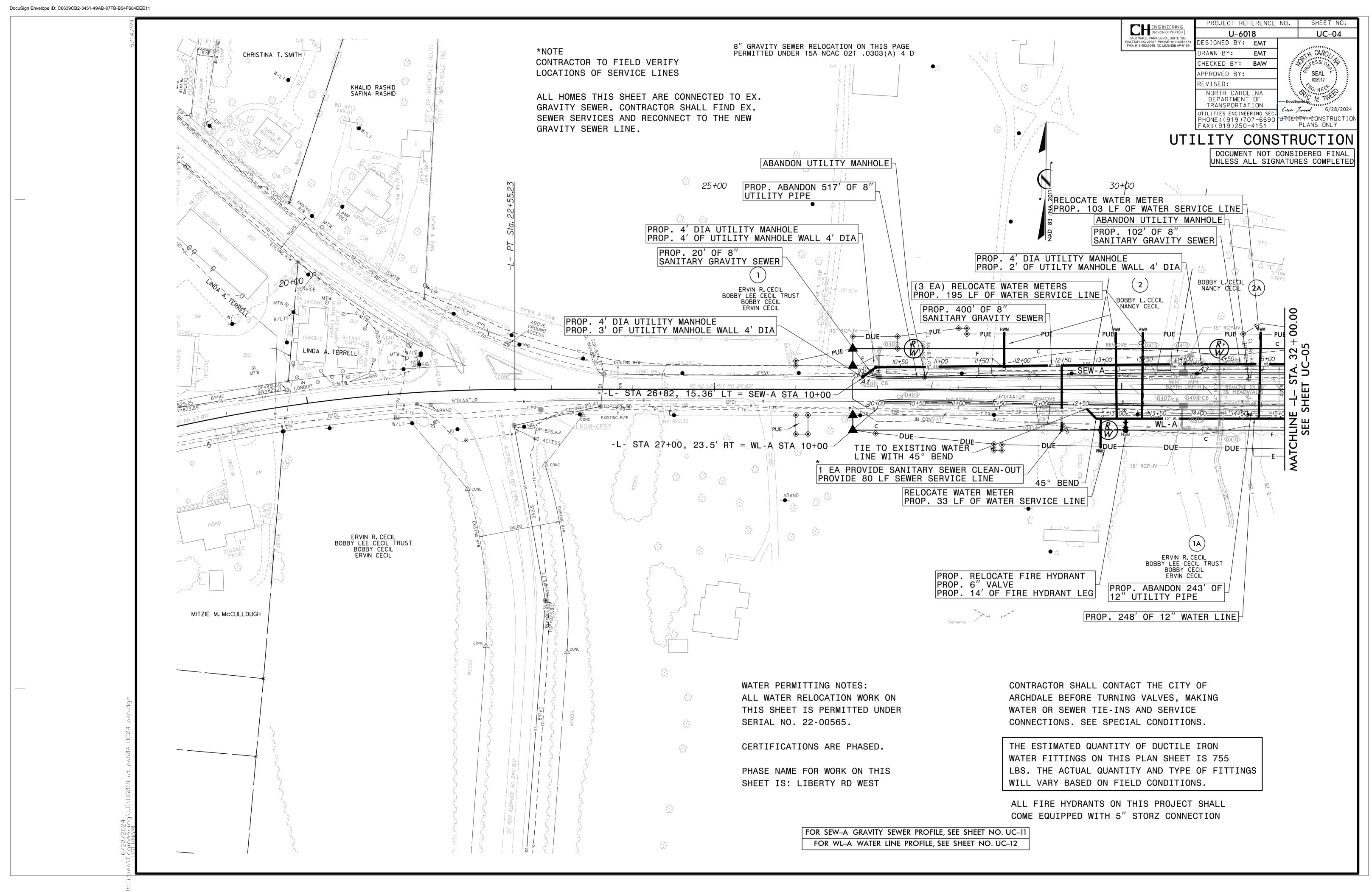
DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED











1		
5/14/99	PAGE 1	PROJECT REFERENCE NO. SHEET NO.  U-6018  DESIGNED BY: EMT DRAWN BY: EMT CHECKED BY: BAW APPROVED BY: REVISED:  NORTH CAROLINA DEPARTMENT OF TRANSPORTATION UTILITIES ENGINEERING SEC. PHONE: (919)707-6690 FAX: (919)250-4151  DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED
	THIS PAGE INTENTIONALLY LEFT BLANK	
-ut-psh09_UC09_psh.dgn		
6/28/2024 :ngineering\UC\U6Ø1E USFRNAMF		

