UTILITY CONSTRUCTION NOTES

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 TOWN OF YADKINVILLE. THE CONTACT PERSON IS JACOB SWAIM, PUBLIC SERVICES DIRECTOR. HIS EMAIL IS jswaim@yadkinville.org AND HIS PHONE IS (336) 679-2990.

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 ENVIRONMENTAL 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.

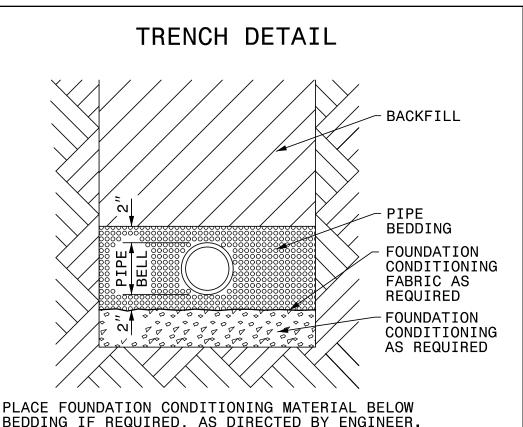
5. PROVIDE ACCESS FOR THE DEPARTMENT PERSONNEL AND THE OWNER'S **REPRESENTATIVES TO ALL PHASES OF** CONSTRUCTION. NOTIFY DEPARTMENT PERSONNEL AND THE UTILITY OWNER TWO WEEKS PRIOR TO COMMENCEMENT OF ANY WORK AND ONE WEEK PRIOR TO SERVICE **INTERRUPTION. KEEP UTILITY OWNERS'** REPRESENTATIVES INFORMED 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.



BEDDING IF REQUIRED, AS DIRECTED BY ENGINEER. PIPE BEDDED IN SELECT MATERIAL, CLASS II (TYPE 1) OR CLASS III. TRENCH BACKFILLED IN LOOSE 6" LAYERS COMPACTED TO TOP OF TRENCH USING LOCAL EXCAVATED MATERIAL IF APPROVED BY THE ENGINEER OR SELECT MATERIAL. ALL MATERIAL SHALL BE FREÉ OF ROCKS, FOREIGN MATERIAL, AND FROZEN EARTH. COMPACTIÓN SHALL BE TO APPROXIMATELY 95% DENSITY IN ACCORDANCE WITH AASHTO T-99 AS MODIFIED BY THE DEPARTMENT OF TRANSPORTATION.

PROJECT SPECIFIC NOT

1. ALL PROPOSED WATER LINE 4 TO 16 I IN DIAMETER, SHALL BE DUCTILE IRON F - PRESSURE CLASS 350 AND UTILIZE FLEXIBLE PUSH-ON RESTRAINED JOINT

2. ALL PROPOSED STEEL ENCASEMENTS BE SMOOTH WALL WITH A MINIMUM THIC OF 0.25 INCHES.

3. ALL WATER LINE FITTINGS 4 TO 16 INC IN DIAMETER, SHALL BE PRESSURE CLA 350 DUCTILE IRON RESTRAINED JOINT II ACCORDANCE WITH ANSI A21.10 / AWWA AND ANSI A21.4 / AWWA C104.

4. WATER LINE UTILIZING RESTRAINED JOINTS SHALL BE TYTON JOINT, HP LOK AMERICAN "FAST GRIP". US PIPE "FIELD-LOK" OR APPROVED EQUAL.

5. ALL WATERLINE SHALL HAVE COATE TRACER WIRE NO SMALLER THAN 12 AV SOLID COPPER.

6. ALL VALVES - 2" THROUGH 16" SHALL **RESILIENT WEDGE GATE, CAST IRON BO** CONFORMING TO AWWA C509. LATEST VERSION. SEALING MECHANISM SHALL PROVIDE ZERO LEAKAGE AT THE WATE WORKING PRESSURE AGAINST THE LIN FROM EITHER DIRECTION AND BE DESI SUCH THAT NO EXPOSED METAL SEAM EDGES, SCREWS, ETC. ARE WITHIN THE WATERWAY IN THE CLOSED POSITION. GATE SHALL NOT BE WEDGED INTO A P NOR SLIDE ACROSS THE SEATING SURF **OBTAIN TIGHT CLOSURE. ALL INTERNAL** EXTERNAL FERROUS SURFACES OF TH INCUDING THE INTERIOR OF THE GATE. SHALL BE COATED WITH A PROTECTIVE COATING CONFORMING TO AWWA C550 VERSION. COATING SHALL BE APPLIED CASTINGS PRIOR TO ASSEMBLY TO ASS ALL EXPOSED AREAS WILL BE COVEREI VALVES SHALL BE RATED AT 200 PSI WORKING PRESSURE. UNLESS OTHERW NOTED, UNDERGROUND VALVES SHALL OPERATING NUT AND EXPOSED VALVES HAVE A HAND WHEEL OPERATOR. OPER NUT SHALL BE 2"X2". OPEN LEFT.

7. EACH VALVE BURIED IN THE GROUND SHALL BE PROVIDED WITH AN APPROVE OF VALVE BOX AND COVER. THE BOXES **BE ADJUSTABLE SCREW TYPE 24-INCH** 36-INCH.

8. ALL VALVE BOXES SHALL BE CONSTR OF CAST IRON THAT COMPLIES WITH T **REQUIREMENTS OF ASTM A48. VALVE** SHALL BE THE APPROPRIATE RANGE O ADJUSTMENT FOR THE SITE AND CONT SHOULD MINIMIZE THE USE OF EXTENS

9. PROVIDE THRUST RESTRAINT ON TH EXISTING WATER LINE WHERE TIE-INS / MADE AS NECESSARY.

	PROJECT REFERENCE NO. SHEET NO. UC-3
TES:	DESIGNED BY: BCH
	DRAWN BY: ADC CHECKED BY:
INCHES PIPE	APPROVED BY: REVISED: Babby (und Houser
FIFE	NORTH CAROLINA DEPARTMENT OF TRANSPORTATION
S.	UTILITIES ENGINEERING SEC.
	PHONE:(919)707-6690 UTILITY CONSTRUCTION FAX:(919)250-4151 PLANS ONLY
S SHALL	UTILITY CONSTRUCTION DOCUMENT NOT CONSIDERED FINAL
ICKNESS	UNLESS ALL SIGNATURES COMPLETED
CHES	10. CONTRACTOR SHALL NOT OPERATE ANY
ASS	VALVES ON THE EXISTING UTILITY SYSTEMS.
IN /A C110	CONTRACTOR SHALL CONTACT THE UTILITY OWNER TO CONDUCT STRATEGIC OPERATION
ACTIU	OF VALVES FOR SERVICE INTERRUPTION IN
	ORDER TO PERFORM SPECIFIC WORK.
K,	11. ANY BENDS OF PVC WATER PIPE NOT
,	SPECIFICALLY CALLED OUT WITH A 90, 45, 22.5, OR 11.25 DEGREE BEND FITTING,
	SHALL BE CONSTRUCTED BY A RADIAL BEND
ED	OF THE PIPE AS NOTED ON THE PLANS OR IN
WG	ACCORDANCE WITH PIPE MANUFACTURER'S SPECIFICATIONS (WHICHEVER IS MORE
	STRINGENT) - OR A COMBINATION OF BEND
L BE BODY,	FITTINGS AND A RADIAL BEND OF THE PIPE. DEFLECTION OF THE PIPE JOINTS ON PVC
SODY, -	PIPE MATERIAL IS NOT AN ACCEPTABLE
	METHOD OF PIPE BENDING.
ER NE FLOW	12. ALL MATERIALS, EQUIPMENT, LABOR,
GNED	AND WORKSMANSHIP SHALL BE IN ACCORDANCE WITH NCDOT STANDARD SPECIFICATIONS FOR
/IS,	ROADS AND STRUCTURES.
IE . THE	13. UTILITY OWNER MUST BE PRESENT FOR
POCKET	ANY TESTING OR CONNECTIONS TO THE
RFACE TO	EXISTING SYSTEM INCLUDING BUT NOT LIMITED TO ALL TAPS AND TEMPORARY
HE VALVE,	CONSTRUCTION CONNECTIONS. A NOTICE OF
<u>=,</u> ′E	72 HOURS MUST BE PROVIDED.
E 50, LATEST	14. ALL PROPOSED GRAVITY SEWER SHALL BE
ΤΟ	DUCTILE IRON PIPE - THICKNESS CLASS 50
SSURE ED.	OR PRESSURE CLASS 350.
	15. ALL PROPOSED FORCE SEWER LINE SHALL
	BE I.P.S SDR 21 PVC.
L HAVE AN ES SHALL	
RATING	16. IF IT IS DETERMINED THAT TYING TO
	AN EXISTING MANHOLE SHALL CAUSE
D	SIGNIFICANT DAMAGE OR THAT THE
/ED TYPE S SHALL	STRUCTURAL INTEGRITY OF A GIVEN MANHOLE IS IN QUESTION, THE CONTRACTOR SHALL
HOR	NOTIFY THE OWNER AND ENGINEER
	IMMEDIATELY.
RUCTED	17. CONTRACTOR'S ATTENTION IS DIRECTED
HE	TO SECTIONS 102, 107, AND 1550 OF THE
BOXES DF	STANDARD SPECIFICATIONS CONCERNING TRENCHLESS INSTALLATION. IT IS
TRACTOR	CONTRACTOR'S RESPONSIBILITY TO HAVE
SIONS.	BORE DESIGNED AND SEALED BY A LICENSED
ΙE	NORTH CAROLINA PROFESSIONAL ENGINEER. NO DAMAGE IS ALLOWED TO RIVER,
ARE	WETLANDS, OR BUFFER ZONES.