# **PLANS FOR ROCHELLE WSC ON BEHALF OF McCULLOCH COUNTY** WATER LINE REPLACEMENT FUNDED BY TDA CDV21-0347 **OCTOBER 2023**



PROJECT VICINITY MAP

# McCULLOCH COUNTY

FRANK TRULL, COUNTY JUDGE CAROL ANDERSON, COMMISIONER PCT. 1 **RANDY DEANS, COMMISSIONER PCT, 2** JASON BEHRENS, COMMISIONER PCT. 3 DAN BRATTON, COMMISSIONER PCT. 4











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RECORD DRAWING MARCH, 2025 THE RECORD DRAWINGS ARE A COMPILATION OF A COPY OF THE SEALED ENGINEERING DRAWING FOR THIS PROJECT MODIFIED BY ADDENDA, CHANGE ORDERS AND INFORMATION FURNISHED BY THE CONTRACTOR.

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SHEET INDEX

SHEET 05

SHEET 04 HWY 190

SHEET 06

NORTH

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### TCEQ WATER DISTRIBUTION SYSTEM GENERAL CONSTRUCTION NOTES

- This water distribution system must be constructed in accordance with the current Texas Commission or Environmental Quality (TCEQ) Rules and Regulations for Public Water Systems 30 Texas Administrative Code (TAC) Chapter 290 Subchapter D. When Conflicts are noted with local standards, the more stringent requirement shall applied. At a minimum, construction for public water systems must always meet TCEQ's "Rules and Regulations for Public Water Systems
- 2. All newly installed pipes and related products must conform to American National Standards Institute (ANSI)/NSF International Standard 61 and must be certified by an organization accredited by ANSI [§290.44(a)(1)].
- 3. Plastic pipe for use in public water systems must bear the NSF International Seal of Approval (NSF-pw) and have an ASTM design pressure rating of at least 150 psi or a standard dimension ratio of 26 or less [8290.44(a)(2)]
- 4. No pipe which has been used for any purpose other than the conveyance of drinking water shall be accepted or relocated for use in any public drinking water supply [§290.44(a)(3)].
- 5. All water line crossings of wastewater mains shall be perpendicular [\$290.44(e)(4)(B)].
- 6. Water transmission and distribution lines shall be installed in accordance with the manufacturer's instructions. However, the top of the waterline must be located below the frost line and in no case shall the top of the water line be less than 24 inches below ground surface [\$290.44(a)(4)].
- 7. The maximum allowable lead content of pipes, pipe fittings, plumbing fittings, and fixtures is 0.25 percent [§290.44(b)]
- 8. The contractor shall install appropriate air release devices with vent openings to the atmosphere covered with 16-mesh or finer, corrosion resistant screening material or an acceptable equivalent [§290.44(d)(1)].
- 9. The contractor shall not place the pipe in water or where it can be flooded with water or sewage during its storage or installation [§290.44(f)(1)].

10. When waterlines are laid under any flowing or intermittent stream or semi-permanent body of water the waterline shall be installed in a separate watertight pipe encasement. Valves must be provided on each side of the crossing with facilities to allow the underwater portion of the system to be isolated and tested

### GENERAL CONSTRUCTION NOTES:

- CONTRACTOR TO FIELD VERIFY SIZE AND LOCATION OF ALL UTILITIES PRIOR TO CONSTRUCTION. (TEXAS ONE CALL SYSTEM (1-800-545-6005). CONTRACTOR SHALL PROTECT ALL EXISTING UTILITIES WHICH ARE TO REMAIN. BURIED UTILITIES SHOWN ON THE PLANS HAVE BEEN ESTABLISHED BY ON GROUND INFORMATION AS WELL AS COORDINATION WITH UTILITY COMPANIES. LOCATIONS MAY NOT BE EXACT AND OTHER UTILITIES MAY EXIST.
- PRIOR TO COMMENCEMENT OF CONSTRUCTION ALL PARTIES THAT MEET THE DEFINITION OF OPERATOR AS DEFINED BY THE TEXAS COMMISSION ON ENVIRONMENTAL OLIALITY (TCEQ) TPDES CONSTRUCTION GENERAL PERMIT TXR150000 SHALL SUBMIT REQUIRED NOTIFICATION WHICH MAY INCLUDE A COPY OF THE NOTICE OF INTENT (NOI) FILED WITH THE TCEQ AND/OR A CONSTRUCTION SITE NOTICE (CSN). A COPY OF THE NOI OR THE CSN SHALL BE PROVIDED TO THE CITY. THE NOI/CSN FORMS AND PERMIT REQUIREMENTS MAY BE OBTAINED FROM TCEQ AT www.TCEQ.state.tx.us/nov/permits/wg\_construction.html. A STORM WATE POLLUTION PREVENTION PLAN (SWP3) SHALL BE DEVELOPED AND IMPLEMENTED PRIOR TO COMMENCEMENT OF CONSTRUCTION. QUESTIONS CONCERNING THESE REQUIREMENTS MAY BE ADDRESSED TO TCEQ SMALL BUSINESS LOCAL GOVERNMENT ASSISTANCE PROGRAM AT 800-447-2827.
- 3. ALL EXCAVATION GREATER THAN 5 FEET DEEP SHALL COMPLY WITH O.S.H.A. TRENCH SAFETY STANDARDS
- 4. ALL MATERIAL FOR THIS PROJECT SHALL BE FURNISHED AND INSTALLED BY THE CONTRACTOR.
- 5. CONTRACTOR SHALL CONTACT A REPRESENTATIVE FROM THE GAS COMPANY A MINIMUM OF 48 HOURS REFORE COMPLETING GAS LINE CROSSINGS
- 6. NO CHANGE IN THE WORK PERFORMED SHALL BE AUTHORIZED WITHOUT APPROVAL OF THE ENGINEER.
- 7. THE CONTRACTOR SHALL CONTROL EROSION AND SEDIMENTATION PER THE APPLICABLE PERMITS, LAWS, AND REGULATIONS.
- 8. CONTRACTOR SHALL MINIMIZE DAMAGE TO EXISTING LANDSCAPING ON PRIVATE PROPERTY. EXISTING LANDSCAPING SHALL BE REPAIRED TO ITS ORIGINAL CONDITION INCLUDING THE REPLACEMENT OF EXISTING LAWN AREAS WITH THE SAME TYPE OF LAWN AS WAS REMOVED.
- ALL ABOVE GROUND STRUCTURES SHALL BE PROTECTED BY THE CONTRACTOR FROM DAMAGE DURING THE CONSTRUCTION PROCESS. ANY DAMAGE DONE ON PRIVATE PROPERTY SHALL BE REPLACED OR REPAIRED TO ORIGINAL OR BETTER CONDITIONS.
- 10. CONTRACTOR SHALL KEEP THE JOB SITE CLEAN AND FREE OF DEBRIS DURING CONSTRUCTION.
- 11. THE CITY RESERVES THE RIGHT TO WITHHOLD PAYMENT IF THE CONTRACTOR FAILS TO FOLLOW THE ABOVE GENERAL CONSTRUCTION GUIDELINES.

## WATER LINE CONSTRUCTION NOTES:

- ALL MATERIAL INSTALLATION SHALL FULLY COMPLY WITH TAC TCEQ CHAPTER 290 FOR NO EXTRA PAYMENT. CHAPTER 290 REQUIREMENTS SHALL TAKE PRIORITY OVER ALL OTHER SPECIFICATIONS, PLANS AND CONTRACT DOCUMENTS.
- 2. THE CONTRACTOR SHALL FULLY COMPLY WITH ALL TCEQ REGULATIONS PERTAINING TO SEPARATION DISTANCES AS DESCRIBED IN SECTION 290.44 OF THE TAC.
- 3. NO EXTRA PAYMENT WILL BE MADE FOR SPECIAL PROVISIONS REQUIRED TO MEET TCEQ REGULATIONS WHEN WATER & SEWER LINES CROSS OR WHEN THEY ARE LAID PARALLEL PER DETAILS & PER TCEQ REGS.
- 4. ALL PIPE AND ACCESSORIES SHALL BE LAID, JOINTED TESTED FOR DEFECTS AND LEAKAGE WITH PRESSURE AND DISINFECTED ACCORDING TO AWWA CM651-05. CONTRACTOR SHALL MAINTAIN APPROPRIATE BACK FLOW PREVENTION ACCORDING TO AWWA C651-05 SECTION 4.3.9.
- 10. ALL ABANDONED FIRE HYDRANTS SHALL BE REMOVED & DISPOSED OF BY THE CONTRACTOR
- 11. FOR ALL ABANDONED VALVES REMOVE VALVE BOXES. FILL VALVE BOX WITH BEDDING MATERIAL AND REPAIR PAVEMENT.
- 12. WATER SERVICE WATER LINES SHALL BE SDR 9 HDPE UNLESS NOTED OTHERWISE,
- 13. CONTRACTOR SHALL SPRAY ALL FITTINGS. SADDLES. CORP STOP. ETC WITH BLEACH SOLUTION AS FOLLOWS: 1 GAL BLEACH / 4 GALLON POTABLE WATER.
- 14. TO BE ELIGIBLE TO BID. THE BIDDER MUST HAVE BEEN A UTILITY CONTRACTOR FOR AT LEAST 5 YEARS AND BE A TEXAS LICENSED UTILITY CONTRACTOR
- 15. A TEXAS LICENSED WATER OPERATOR (WITH A MINIMUM OF A "C" LICENSE) HAS TO BE IN CHARGE OF FLUSHING AND SERVICE CONNECTIONS.
- 16. PROPOSED WATER LINE SHALL BE INSTALLED BELOW EXISTING WATER LINES AT ALL WATER LINE CROSSINGS WITH A MINIMUM OF 1' CLEARANCE.
- 17. DEPTH OF EXISTING BURIED UTILITIES IS UNKNOWN. CONTRACTOR SHALL VERIFY ALL EXISTING BURIED UTILITY DEPTHS.

# [§290.44(f)(2)]

11. Pursuant to 30 TAC 290.44(a)(5), the hydrostatic leakage rate shall not exceed the amount allowed or recommended by the most current AWWA formulas for PVC pipe, cast iron and ductile iron pipe. Include the formulas in the notes on the plans.

The hydrostatic leakage rate for polyvinyl chloride (PVC) pipe and appurtenances shall not the amount allowed or recommended by formulas in America Water Works Association (AWWA) C-605 as required 30 TAC §290.44(a)(5). Please ensure that the formula for this calculation is correct and most current formula is in use: Q = LD√F

148.000

Where:

•Q = the quantity of makeup water in gallons per hour,

- = the length of the pipe section being tested, in feet,  $\phi$  = the nominal diameter of the pipe in inches, and
- the average test pressure during the hydrostatic test in pounds per square inch (psi)

The hydrostatic leakage rate for ductile iron (DI) pipe and appurtenances shall not exceed the amoun allowed or recommended by formulas in America Water Works Association (AWWA) C-600 as required in 30 TAC 290.44(a)(5). Please ensure that the formula for this calculation is correct and most current formula is use:

L = <u>SD√P</u> 148,000

Where.

- = the quantity of makeup water in gallons per hour
- S = the length of the pipe section being tested, in feet, •D = the nominal diameter of the pipe in inches, and
- •P = the average test pressure during the hydrostatic test in pounds per square inch (psi)

12. The contractor shall maintain a minimum separation distance in all directions of nine feet between the proposed waterline and wastewater collection facilities including manholes. If this distance cannot be maintained, the contractor must immediately notify the project engineer for further direction. Separation distances, installation methods, and materials utilized must meet 2290.44(e)(1)-(4).

13. The separation distance from a potable waterline to a wastewater main or lateral manhole or cleanout shall be a minimum of nine feet. Where the nine-foot separation distance cannot be achieved, the potable waterline shall be encased in a joint of at least 150 psi pressure class pipe at least 18 feet long and two nominal sizes larger than the new conveyance. The space around the carrier pipe shall be supported at five-foot intervals with spacers or be filled to the springline with washed sand. The encasement pipe shall be centered on shall be centered on the crossing and both ends sealed with cement grout or manufactured sealant [\$290.44(e)(5)].

- lateral, or wastewater service line regardless of construction [\$290.44(e)(6)]
- main, wastewater lateral, or wastewater service line [§290.44(e)(7)].

- recent.
- with water or sewage during its storage or installation.
- §290.44(f)(3).

### RURAL AND CROSS-COUNTRY PIPELINE CONTRUCTION NOTES

- ALL GATES SHALL BE KEPT CLOSED OR A GUARD SHALL BE POSTED TO PREVENT ACCESS TO THE PRO SHALL BE MADE FOR LIVESTOCK TO CROSS THE PIPELINE DITCH OR CROSS BETWEEN JOINTS OF PIPE THEN 800 FOOT INTERVALS ALONG THE PIPELINE DITCH AND 50 FEET WIDE AT SUCH POINTS. GATES SI
- 2. MAXIMUM SPEED LIMIT ON THE PROJECT SHALL BE 20 M.P.H
- 3. NO FIREARMS SHALL BE PERMITTED ON THE PROJECT SITE.
- 4. NO FIRES WILL BE ALLOWED UNLESS WRITTEN PERMISSION FROM THE LANDOWNER AND FIRE MARSHALL ARE OBTAINED. DIRT AND ROCK SHALL BE SEPARATED FROM BRUSH. NO FIRES WILL BE ALLOWED IN R.O.W. DURING CONSTRUCTION. ROCK AND DEBRIS SHALL BE REMOVED FROM THE PROJECT UNLESS WRITTEN PERMISSION IS PROVIDED FROM THE LAND OWNER. COPIES OF ALL PERMISSIONS GRANTED SHALL BE PROVIDED TO THE ENGINEER, OWNER, AND INSPECTOR.
- 5. THE CONTRACTOR SHALL EXCAVATE THE TOP 12 INCHES OF TOPSOIL AND STOCKPILE IT SEPARATELY FROM THE GENERAL EXCAVATION. A SUITABLE VOLUME OF TOPSOIL SHALL BE EXCAVATED TO PLACE A MINIMUM OF 12 INCHES OF TOPSOIL OVER ALL EXCAVATED OR BACKFILLED AREAS. TOPSOIL IS NOT REQUIRED WHERE PAVEMENT, CONCRETE CAP, RIPRAP, OR OTHER FACILITIES ARE REQUIRED AT THE SURFACE. WHEN CROSSING CULTIVATED AREAS, DISC PLOW TOPSOIL; REMOVE ROCKS AND STOCKPILE FOR REPLACEMENT BEFORE PIPELINE EXCAVATION. EXCEPT WHERE NOTED, THE GROUND SHALL BE RETURNED TO THE ORGINAL CONTOURS AFTER CONSTRUCTION. EXISTING TERRACES SHALL BE REPLACED AFTER CONSTRUCTION. DIVERSION DIVERSION OF AN BE ADDED AS REQUIRED AFTER CONSTRUCTION TO PREVENT EROSION OF THE SURFACE. DIKES SHALL BE INSTALLED WHERE DESIGNATED BY THE ENGINEER, OWNER, OR INSPECTOR.
- 6. NO TREES MAY BE REMOVED OUTSIDE THE PERMANENT EASEMENT RIGHT-OF-WAY. TREES WITHIN THE PERMANENT EASEMENT MAY BE REMOVED ONLY IF THEY SHALL PREVENT THE CONTRACTOR FROM LAYING PIPELINE IN A SMOOTH WORK FLOW.
- 7. CLEARING AND ROOT GRUBBING SHALL BEGIN NO SOONER THAN ONE MONTH PRIOR TO PIPE TRENCHING, STRINGING, AND LAYING OPERATIONS. BACKFILL, SURFACE RESTORATION, AND CLEAN-UP SHALL BE COMPLETED NO MORE THAN ONE MONTH AFTER PIPE LAYING HAS BEEN COMPLETED FOR THAT SECTION OF PIPELINE. THE CHIPPING OR STOCKPILING OF TREES MAY BE ALLOWED IF WRITTEN PERMISSION IS OBTAINED FROM THE LANDOWNER. PILES MAY BE OFF THE R.O.W. AT CONVENIENLY SPACED INTERVALS. COPIES OF ALL WRITTEN PERMISSION SHALL BE GIVEN TO THE ENGINEER, OWNER, AND INSPECTOR. THE PROJECT SHALL BE KEPT FREE FROM CONSTRUCTION TRASH AND LITTER AT ALL TIMES. FAILURE TO DO SO SHALL RESULT IN FINES OF \$500.00 PER INCIDENT. THE CONTRACT SHALL BE REDUCED BY THE AMOUNT OF ALL FINES.
- 8. THE CONTRACTOR SHALL REMOVE ROCK FROM THE DISTURBED AREAS SUCH THAT IT IS LEFT WITH NO MORE QUANTITY OR SIZE OF ROCK THAN THE LAND ADJACENT TO
- THE CONTRACTOR IS NOT REQUIRED TO RE-SEED DISTURBED AREAS, EXCEPT AS REQUIRED BY TXDOT; HOWEVER, THE CONTRACTOR WILL BE RESPONSIBLE FOR ALL
  DAMAGES TO PROPERTY OUTSIDE OF THE EASEMENT LIMITS, INCLUDING REVEGETATION COST.
- 10 CONTRACTOR MAY MOUND EXCESS TRENCH EXCAVATED MATERIAL OVER PIPE UP TO 1 FOOT IN HEIGHT ABOVE NATURAL GRADE MOUND SHALL BE FREE OF BRUSH AND ROCK LARGER THAN TWO INCHES. MOUNDING IS NOT PERMITTED IN DEVELOPED PROPERTIES, ROADS, PAVED AREAS, OR OTHER AREAS AS DIRECTED BY THE OWNER'S REPRESENTATIVE
- 11. THE CONTRACTOR MAY NOT USE PRIVATELY OWNED ROADS, UNLESS HE OBTAINS PERMISSION FROM THE LANDOWNERS. CONTRACTOR SHALL REPAIR ANY AND ALL DAMAGE TO PRIVATE AND PUBLIC ROADS
- 12. THE TEMPORARY ACCESS ROAD ADJACENT TO THE PIPELINE SHALL BE LEFT CLEAR AND GRADED IN CASE THE OWNER DECIDES TO INSTALL A PERMANENT ACCESS ROAD ALONG PORTIONS OF THE RIGHT OF WAY.



MARCH, 2025 HE RECORD DRAWINGS ARE A COMPILATION OF A COPY OF THE SEALED ENGINEERING THE RECORD DRAN DRAWING FOR THIS PROJECT MODIFIED BY ADDENDA, CHANGE ORDERS AND INFORMATIC FURNISHED BY THE CONTRACTOR.

14. Fire hydrants shall not be installed within nine feet vertically or horizontally of any wastewater line, wastewater

15. Suction mains to pumping equipment shall not cross wastewater mains, wastewater laterals, or wastewater service lines. Raw water supply lines shall not be installed within five feet of any tile or concrete wastewater

16. Waterlines shall not be installed closer than ten feet to septic tank drainfields [\$290.44(e)(8)].

17. The contractor shall disinfect the new waterlines in accordance with AWWA Standard C-651-14 or most recent. then flush and sample the lines before being placed into service. Samples shall be collected for microbiological analysis to check the effectiveness of the disinfection procedure which shall be repeated if contamination persists. A minimum of one sample for each 1,000 feet of completed waterline will be required or at the next available sampling point beyond 1,000 feet as designated by the design engineer [ $\frac{290.44(f)(3)}{1}$ ].

18. Dechlorination of disinfecting water shall be in strict accordance with current AWWA Standard C655-09 or most

19. Pursuant to 30 TAC 220.44(f)(1), the contractor shall not place the pipe in water or where it can be flooded

20. Pursuant to 30 TAC \$290.44(f)(2), when waterlines are laid under any flowing or intermittent stream or semi-permanent body of water the water main shall be installed in a separate watertight pipe encasement Valves must be provided on each side of the crossing with facilities to allow the underwater portion of the

21. The contractor shall disinfect the new water mains in accordance with AWWA Standard C-651 and then flush and sample the lines before being placed into service. Samples shall be collected for microbiological analysis to check the effectiveness of the disinfection procedure which shall be repeated if contamination persists. A minimum of one sample for each 1,000 feet of completed water line will be required or at the next available sampling point beyond 1,000 feet as designated by the design engineer, in accordance with 30 TAC

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ROCHELLE, TEXAS WATER LINF REPLACEMENT		PRO JECT NOTES	
DATE			BAR IS ONE INCH IN LENGTH ON ORIGINAL DRAWING. CHECK SCALE AND ADJUST AC CORDINGLY.
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