



**THOMPSON
& LITTON** EST.
1956

ENGINEERS ARCHITECTS SURVEYORS

ADDENDUM NO. 001

TO: All Plan Holders

RE: Dry Fork Water Line Replacement
for Buchanan County Public Service Authority
T&L Project No. 16349

DATE: March 1, 2023

BIDS RECEIVED DATE: March 15, 2023



This Addendum forms a part of the Contract Documents and modifies the original Bidding Documents dated February 10, 2023, as noted below. Acknowledge receipt of this Addendum in the space provided on the Bid Form. Failure to do so may subject Bidder to disqualification.

This Addendum consists of three pages.

CLARIFICATIONS AND ANSWERS TO PRE-BID QUESTIONS:

1. The Pre-Bid Conference Attendance Record is enclosed.

CHANGES TO PROJECT MANUAL:

1. The Project Manual has been revised as follows:
 - A. The Inside cover to the Project Manual has been sealed and is included in this Addendum.

CHANGES TO DRAWINGS:

1. Sheet Index on sheet 2 has been revised and is included with this Addendum.

Enclosures: Pre-Bid Conference Attendance Record
Project Manual Inside Cover
Drawing 2



**PRE-BID CONFERENCE
ATTENDANCE RECORD
WEDNESDAY FEBRUARY 22, 2023**

DRY FORK WATER LINE REPLACEMENT AND PUMP STATION UPGRADES (CONTRACT I)
For The
BUCHANAN COUNTY PUBLIC SERVICE AUTHORITY
T&L Project No. 16349

NAME	COMPANY	WORK NUMBER	MOBILE NUMBER	EMAIL ADDRESS
Pamela Young	T&L	304-425-9555	304-922-8624	pyoung@t-l.com
Tyler Hutcheson	Concrete Foundations	434-656-6592	434-227-7714	Concretefoundationsinc@johnc.com
Brian McGough	T&L	276-378-2161	276-275-9190	bmcgough@t-l.com
Brad Vandylke	BCPSA	276-935-5827	276-312-4047	bradvandylke@bcpsa.gov
Bobby Graham	B&M Construction	276-210-6748	276-259-6358	btgraham55@aol.com
Holly Parish	T&L	304-449-4005		hparish@t-l.com

PROJECT MANUAL

**Dry Fork Water Line and Pump Station Upgrades
Buchanan County, Virginia**

**Prepared For
Buchanan County Public Service Authority**

**With Financial Assistance From
Virginia Department of Health ARPA Grant Funds**



This document and the ideas and designs incorporated herein, as an instrument of professional service, is the property of Thompson & Litton and is not to be used in whole or in part for any other project without the written authorization of Thompson & Litton.



**726 Auburn Avenue
Radford, Virginia 24141**

T&L Project No. 16349

Issued for Bids February 10, 2023

GENERAL NOTES

MAPPING/EXISTING INFORMATION

- AERIAL PHOTOGRAPHY TO PROVIDE PLANIMETRIC MAPPING WAS OBTAINED FROM THE VIRGINIA GEOGRAPHIC INFORMATION NETWORK (VGIN). THE MAPPING WAS PREPARED IN 2019.
- THE EXISTENCE AND LOCATION OF EXISTING UNDERGROUND UTILITIES ARE NOT GUARANTEED AND SHALL BE INVESTIGATED AND FIELD VERIFIED BY THE CONTRACTOR BEFORE STARTING WORK. ANY DAMAGE DONE TO EXISTING UNDERGROUND UTILITIES AND FACILITIES SHALL BE REPAIRED WITH THE UTILITIES AND FACILITIES RESTORED TO AT LEAST THEIR ORIGINAL CONDITION.
- THE CONTRACTOR SHALL CALL "VIRGINIA 811" 72 HOURS BEFORE EXCAVATION WORK HAS BEGUN. "VIRGINIA 811" MAY BE REACHED AT 1-800-552-7001.
- THE CONTRACTOR SHALL NOTIFY THE BCPSA EXECUTIVE DIRECTOR 48 HOURS BEFORE OPENING OR CLOSING ANY VALVE ON THE EXISTING SYSTEM OR TAPPING OF WATER FACILITIES. THE CONTRACTOR SHALL COORDINATE WITH THE BCPSA PRIOR TO ANY SHUTDOWN, CHANGEOVER, FILLING, OR FLUSHING ACTIVITIES.

INSTALLATION

- ALL EXISTING WATER LINES LOCATED WHERE NEW WATER LINES ARE PROPOSED SHALL BE REMOVED OR ABANDONED IN ACCORDANCE WITH THE SPECIFICATIONS.
- ALL DUCTILE IRON PIPE (DIP) INSTALLED SHALL BE DOUBLE POLYETHYLENE ENCASED.
- AIR RELEASE VALVES (ARV) SHALL BE LOCATED AT HIGH POINTS IN THE WATER LINE. ARV LOCATIONS SHALL BE FIELD VERIFIED BY THE CONTRACTOR AND APPROVED BY THE ENGINEER PRIOR TO INSTALLATION.
- BLOW-OFF VALVES (BOV) SHALL BE LOCATED AT LOW POINTS IN THE WATER LINE. BOV LOCATIONS SHALL BE FIELD VERIFIED BY THE CONTRACTOR AND APPROVED BY THE ENGINEER PRIOR TO INSTALLATION.
- ANY DEVIATIONS TO THE FIRE HYDRANT LOCATIONS AS SHOWN ON THE DRAWINGS SHALL REQUIRE THE PRIOR APPROVAL OF THE ENGINEER.
- MINIMUM PIPE COVER FOR WATER LINES SHALL BE 3' - 0" UNLESS NOTED OTHERWISE.
- ALL UNPAVED AND UNGRAVELED AREAS DISTURBED BY EXCAVATION SHALL BE SEEDED.
- THE LOCATIONS OF ALL NEW SERVICE CONNECTIONS AND METER SETTINGS SHALL BE FIELD VERIFIED BY A MUTUAL AGREEMENT BETWEEN THE BCPSA, CONTRACTOR, AND ENGINEER.
- UNLESS NOTED OTHERWISE, ALL SERVICE LINES SHALL BE 3/4" WATER LINE TO SINGLE METER SETTINGS AND 1" WATER LINE TO MULTIPLE METER SETTINGS. ALL SERVICE LINES TAPPED TO MAINS WHICH HAVE WORKING PRESSURES RATED ABOVE 250 PSI SHALL BE SODR 9.
- CONTRACTOR SHALL PROVIDE UTILITY MARKERS AT ALL GATE VALVES, BOVS AND ARVS. UTILITY MARKERS (BLUE) SHALL BE EQUAL TO FLEXPOST FLEXIBLE UTILITY MARKER BY WILLIAM FRICK & COMPANY.
- RIGHT-OF-WAY REQUIREMENTS, PRIVATE PROPERTY: A 20' WIDE PERMANENT EASEMENT 10' LEFT AND RIGHT OF WATER LINES, AND A 40' WIDE TEMPORARY EASEMENT 20' LEFT AND RIGHT OF WATER LINES, UNLESS OTHERWISE INDICATED. RIGHT-OF-WAY REQUIREMENTS, PUBLIC PROPERTY: CONSTRUCTION LIMITS ARE DEFINED BY THE PUBLIC RIGHT-OF-WAY.

VDOT NOTES (NON-PAVING)

- ALL WORK WITHIN VIRGINIA DEPARTMENT OF TRANSPORTATION (VDOT) RIGHT-OF-WAY SHALL BE PERFORMED IN ACCORDANCE WITH THE LATEST EDITIONS OF THE VDOT "ROAD AND BRIDGE SPECIFICATIONS" AND "ROAD AND BRIDGE STANDARDS", AS APPLICABLE.
- WATER LINES AND APPURTENANCES ON VDOT RIGHT-OF-WAY SHALL BE INSTALLED IN ACCORDANCE WITH THE LATEST EDITIONS OF THE VDOT ROAD AND BRIDGE SPECIFICATIONS AND STANDARDS, SPECIAL PROVISIONS-MP-63 AND SUBSEQUENT SPECIAL PROVISIONS-MP-71, AS APPLICABLE.
- ALL TRAFFIC CONTROL SHALL BE PERFORMED IN ACCORDANCE WITH THE VDOT "WORK AREA PROTECTION MANUAL".
- A SEPARATE PRE-CONSTRUCTION MEETING MUST BE HELD BETWEEN THE CONTRACTOR AND VDOT BEFORE ANY WORK BEGINS TO DISCUSS SAFETY, SCHEDULING OF RESTORATION WORK, ETC. THE CONTRACTOR SHALL CONTACT THE VDOT RESIDENCY ADMINISTRATOR OR HIS REPRESENTATIVE 48 HOURS PRIOR TO CONSTRUCTION.
- WASTE DISPOSAL AREAS MUST BE PRE-APPROVED BY VDOT AND AML/DMM. THE CONTRACTOR MUST FURNISH VDOT TWO (2) COPIES OF ALL PROPERTY OWNER AGREEMENTS FOR WASTE DISPOSAL AREAS.
- WATER LINES SHALL BE INSTALLED UNDER ALL VDOT DRAINAGE STRUCTURES WITH A MINIMUM CLEARANCE OF 18 INCHES OR A MINIMUM OF 10 FEET OFFSET AROUND THE END OF THE STRUCTURE WHERE CONDITIONS PROHIBIT INSTALLATION UNDER THE STRUCTURE.
- THE EDGE OF WATER LINE TRENCH SHALL BE A MINIMUM OF 5 FEET FROM ADJACENT RETAINING WALLS.
- ONCE THE CONTRACT HAS BEEN AWARDED, THE CONTRACTOR SHALL FILE A LAND USE PERMIT APPLICATION WITH VDOT, TO INCLUDE THE APPROPRIATE PERMIT FEE OF \$2,256 AND LAND USE SURETY BOND IN THE AMOUNT OF \$300,000.
- A SET OF "AS-BUILT PLANS" FOR FACILITIES CONSTRUCTED IN THE VDOT RIGHT-OF-WAY SHALL BE SUBMITTED TO VDOT BEFORE THE SURETY BOND WILL BE RELEASED.

- THE CONTRACTOR IS RESPONSIBLE FOR WORKMANSHIP WITHIN THE VDOT RIGHT-OF-WAY FOR A PERIOD OF THREE YEARS AFTER THE DATE OF COMPLETION.
- PRIVATE ENTRANCE DRAINAGE CULVERTS DAMAGED DURING CONSTRUCTION SHALL BE REPLACED WITH A MINIMUM 18" CULVERT OR A CULVERT EQUAL TO THE DIAMETER OF THE DAMAGED CULVERT, WHICHEVER IS GREATER.
- GUARDRAIL DAMAGED DURING CONSTRUCTION SHALL BE REPLACED TO MEET CURRENT VDOT STANDARDS AND SPECIFICATIONS.
- ABANDONED WATER LINES AND ANY CUT SECTION THEREOF SHALL BE CAPPED WITH CLASS A-3 CONCRETE ON BOTH ENDS.
- WATER LINES AND APPURTENANCES SHALL BE INSTALLED OFF THE EDGE OF PAVEMENT ON PRIMARY AND SECONDARY ROADWAYS IN ACCORDANCE WITH THE FOLLOWING REQUIREMENTS:
 - ON PRIMARY ROADWAYS, WATER LINES AND APPURTENANCES SHALL BE INSTALLED A MINIMUM OF 5 FEET OFF THE EDGE OF PAVEMENT IN FILL SECTIONS AND A MINIMUM OF 18 INCHES BACK OF DITCH LINES IN CUT SECTIONS, WHERE FEASIBLE.
 - ON SECONDARY ROADWAYS, WATER LINES AND APPURTENANCES SHALL BE INSTALLED A MINIMUM OF 3 TO 5 FEET OFF THE EDGE OF PAVEMENT IN FILL SECTIONS AND A MINIMUM OF 18 INCHES BACK OF DITCH LINES IN CUT SECTIONS.

VDOT NOTES (GRADING & PAVING)

- ALL FINAL PAVEMENT PATCHES AND OVERLAYS WITHIN VDOT RIGHT-OF-WAY SHALL BE INSTALLED WITH A PAVING MACHINE AND SHALL MEET VDOT SPECIFICATIONS FOR PAVEMENT REPLACEMENT.
- WHERE POSSIBLE, WATER LINE ROAD CROSSINGS OF STATE ROUTES THAT ARE PAVED SHALL BE BORED. OPEN-CUTS REQUESTS SHALL BE SENT TO VDOT. RESTORATION OF OPEN-CUTS SHALL BE MADE IN ACCORDANCE WITH VDOT'S SUBSEQUENT SPECIAL PROVISIONS-MP-71, EXCEPT THAT THE PATCH SHALL BE TWICE AS THICK AS THE EXISTING ADJACENT ASPHALT.
- THE CONTRACTOR SHALL HAVE AVAILABLE A MOTOR GRADER (OR SIMILAR TYPE EQUIPMENT), AND A DUMP TRUCK FOR RE-GRADING OF THE SHOULDERS OR DITCHES. ROTARY BROOM EQUIPMENT SHALL BE ON THE PROJECT SITE AND THE ROADWAY SHALL BE SWEEPED DAILY.
- WHEN "CLEATED (TRACK MOUNTED) EQUIPMENT" IS USED DURING CONSTRUCTION, THE PAVEMENT MUST BE PROTECTED BY EITHER VDOT NO. 9 OR NO. 10 AGGREGATE OR OTHER VDOT APPROVED MEANS. ALL EQUIPMENT OUTRIGGERS SHALL HAVE RUBBER PADS FOR USE ON PAVED SURFACES.
- SHOULDER RE-GRADING AND REPAIRS SHALL BE PERFORMED DAILY. ALL SHOULDERS DISTURBED BY INSTALLATION OF WATERLINE MUST BE RE-GRADED TO SLOPE AWAY FROM THE PAVED SURFACE AT A SLOPE OF 3/4" PER FOOT AND STABILIZED WITH VDOT TYPE 1, NO. 21A OR 21B AGGREGATE AT 2" MINIMUM DEPTH.
- BACKFILL MATERIAL UTILIZED WITHIN THE TRAVEL WAY OF THE VDOT RIGHT-OF-WAY SHALL BE VDOT TYPE 1, NO.21A OR 21B AGGREGATE, COMPACTED IN 6-INCH LIFTS.
- PATCHING OF ASPHALT ON SECONDARY ROUTES SHALL BE PERFORMED WEEKLY. PATCHING OF ASPHALT ON PRIMARY ROUTES SHALL BE PERFORMED THE SAME DAY AS THE PAVEMENT IS DISTURBED. AS SETTLEMENT OCCURS, THE CONTRACTOR SHALL REPAIR THESE AREAS; VDOT AT ITS DISCRETION, MAY REQUIRE THESE REPAIRS. PATCH ASPHALT WHEN WATER LINE IS INSTALLED IN THE ROAD AS ILLUSTRATED ON THE PLANS.
- PRIOR TO THE COMPLETION OF ALL LINE WORK A VDOT INSPECTOR WILL MARK ALL OVERLAYS TO BE PERFORMED.
- PAVEMENT REMOVAL SHALL BE ACCOMPLISHED BY SAW-CUTTING.

OWNERSHIP OF DOCUMENTS

- OWNERSHIP OF DOCUMENTS: THIS DOCUMENT, INCLUDING THE IDEAS AND DESIGNS INCORPORATED HEREIN, AS AN INSTRUMENT OF PROFESSIONAL SERVICE, IS THE PROPERTY OF THOMPSON & LITTON AND IS NOT TO BE USED IN WHOLE OR IN PART FOR ANY OTHER PROJECT WITHOUT THE WRITTEN AUTHORIZATION OF THOMPSON & LITTON.

SHEET INDEX

SHEET NO.	DESCRIPTION
1.	COVER SHEET
2.	SHEET INDEX, GENERAL NOTES, EROSION AND SEDIMENT CONTROL NOTES & LEGENDS
2A.	INDEX MAP
3.	PLAN - LINE 100W
4.	PLAN - LINE 100W
5.	PLAN - LINE 100W
6.	PLAN - LINE 100W
7.	PLAN - LINE 100W
8.	PLAN - LINE 100W
9.	PLAN - LINE 100W
10.	TYPICAL WATER LINE DETAILS
11.	TYPICAL WATER LINE DETAILS
12.	TYPICAL WATER LINE DETAILS
13.	MECHANICAL PLAN - DRY FORK PRV VAULT AND DRY FORK PUMP STATION NO. 2
14.	SITE PLAN - LINE 100W PRV VAULT
15.	VAULT ACCESS ROAD - PROFILE AND SECTION
16.	MECHANICAL PLAN - LINE 100W PRV VAULT

EROSION AND SEDIMENT CONTROL NOTES

- EROSION AND SEDIMENT CONTROL SHALL BE IMPLEMENTED IN ACCORDANCE WITH ALL LOCAL REQUIREMENTS, THE EROSION AND SEDIMENT CONTROL PLAN FOR THIS PROJECT AND THE LATEST EDITION OF THE "VIRGINIA EROSION AND SEDIMENT CONTROL HANDBOOK," BY THE DEPARTMENT OF ENVIRONMENTAL QUALITY, AS APPLICABLE.
- THE CONTRACTOR SHALL KEEP AT THE PROJECT SITE COPIES OF THE "VIRGINIA EROSION AND SEDIMENT CONTROL HANDBOOK" AND THE EROSION AND SEDIMENT CONTROL PLAN FOR THIS PROJECT.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE INSTALLATION OF ANY ADDITIONAL EROSION AND SEDIMENT CONTROL FACILITIES NECESSARY TO PREVENT EROSION AND SEDIMENTATION AS DETERMINED BY THE PLAN-APPROVING AUTHORITY.
- ALL DISTURBED AREAS SHALL DRAIN TO APPROVED EROSION AND SEDIMENT CONTROL FACILITIES AT ALL TIMES DURING LAND DISTURBING ACTIVITIES UNTIL FINAL STABILIZATION IS ACHIEVED.
- MATERIAL STOCKPILES SHALL BE CONTAINED WITHIN SEDIMENT BARRIERS. STOCKPILES THAT ARE TO REMAIN UNWORKED FOR MORE THAN 30 DAYS SHALL BE STABILIZED WITH TEMPORARY SEEDING WITHIN 7 DAYS AFTER THE COMPLETION OF STOCKPILING.
- TEMPORARY STABILIZATION SHALL BE INSTALLED WITHIN 7 DAYS ON DENUDED AREAS THAT ARE TO REMAIN DORMANT FOR GREATER THAN 30 DAYS. PERMANENT STABILIZATION SHALL BE APPLIED TO AREAS THAT ARE TO BE LEFT DORMANT FOR MORE THAN ONE YEAR. PERMANENT STABILIZATION SHALL BE INSTALLED WITHIN 7 DAYS OF FINAL STABILIZATION.
- ALL AREAS WHICH REQUIRE SEEDING SHALL BE "TOPSOILED" AND STABILIZED WITH MULCH IN ACCORDANCE WITH THE EROSION AND SEDIMENT CONTROL PLAN AND SPECIFICATIONS FOR THIS PROJECT.
- THE CONTRACTOR SHALL INSPECT ALL EROSION AND SEDIMENT CONTROL FACILITIES PERIODICALLY AND AFTER EACH RUNOFF-PRODUCING RAINFALL EVENT. ANY NECESSARY REPAIRS OR CLEANUP TO MAINTAIN THE EFFECTIVENESS OF THE EROSION AND SEDIMENT CONTROL FACILITIES SHALL BE MADE IMMEDIATELY. RECORDS OF ALL INSPECTIONS AND REPAIRS MADE TO EROSION AND SEDIMENT CONTROL FACILITIES SHALL BE MAINTAINED BY THE CONTRACTOR.
- NO MORE THAN 500 LINEAR FEET OF TRENCH MAY BE OPEN AT ONE TIME.
- EXCAVATED MATERIAL SHALL BE PLACED ON THE UPHILL SIDE OF TRENCHES.
- PAVED OR PUBLIC ROAD SURFACES SHALL BE CLEANED THOROUGHLY AT THE END OF EACH DAY.
- EFFLUENT FROM DEWATERING OPERATIONS SHALL BE FILTERED OR PASSED THROUGH A DEWATERING STRUCTURE, AND DISCHARGED IN A MANNER THAT DOES NOT ADVERSELY AFFECT FLOWING STREAMS OR OFF-SITE PROPERTY.
- WHEN WORK IN A LIVE WATERCOURSE IS PERFORMED, PRECAUTIONS SHALL BE TAKEN TO MINIMIZE ENCROACHMENT, CONTROL SEDIMENT TRANSPORT AND STABILIZE THE WORK AREA TO THE GREATEST EXTENT POSSIBLE DURING CONSTRUCTION.
- THE BED AND BANKS OF A WATERCOURSE SHALL BE STABILIZED IMMEDIATELY AFTER WORK IS COMPLETED IN THE WATERCOURSE.
- THE PERMITEE OR HIS/HER CONTRACTOR SHALL ENSURE THAT DUST IS HELD TO AN ABSOLUTE MINIMUM ALONG ALL PORTIONS OF THE WORK THROUGH THE APPLICATION OF MOISTURE.

EROSION AND SEDIMENT CONTROL LEGEND

SYMBOL	DESCRIPTION
-x-x-x-x-x-x-	(SF) SILT FENCE
(CIP)	CULVERT INLET PROTECTION
(USC)	UTILITY STREAM CROSSING
(TO)	TOPSOILING
(TS)	TEMPORARY SEEDING
(PS)	PERMANENT SEEDING
(MU)	MULCHING

GENERAL LEGEND

EXISTING	NEW	DESCRIPTION
— W —	—	WATER LINE
⊗	⊗	BLOW OFF VALVE
⊗	⊗	GATE/BALL VALVE
⊗	⊗	AIR RELEASE VALVE
⊗	⊗	FIRE HYDRANT
⊗	⊗	WATER METER
- - - - -	- - - - -	PROPERTY BOUNDARY



**DRY FORK WATER LINE REPLACEMENT
AND PUMP STATION UPGRADES**
BUCHANAN COUNTY PUBLIC SERVICE AUTHORITY
**SHEET INDEX, GENERAL NOTES, EROSION AND
SEDIMENT CONTROL NOTES & LEGENDS**

No.	Date	Purpose of Document Issue
	02/12/23	ISSUED FOR BIDS

Designed	
Drawn	
Checked	
Date	SEPTEMBER 2022

Project No. **16349**



THOMPSON & LITTON

Sheet No. **2**