

PROJECT: Town of West Blocton
Water System Improvements: Contracts D, E, & F
DWSRF ARPA Project No. FS010192-02
KG Project No. 22-0026

ADDENDUM NO. One (1)

DATE: February 9, 2026

TO: All Recorded Contract Document Holders

This Addendum is issued to all registered plan holders pursuant to the Conditions of the Contract.

This Addendum serves to clarify, revise, and supersede information in the Project Manual, Drawings, and previously issued Addenda. This addendum and its attachments shall become a part of the plans and specifications and shall apply to the bid proposals for the above-named project.

The bidder(s) shall notify all affected subcontractors, material suppliers, and others to incorporate necessary cost and schedule updates, to the bid proposal and the work changes affected by this Addendum.

The Bidder shall acknowledge receipt of this Addendum in the appropriate space on the Bid Form. Bidders must also acknowledge receipt by email to jessica@kelleynetwork.com.

In the event of conflict between plans and specifications and this addendum, the addendum shall take precedence. Any modifications necessary to incorporate the revisions shall be included in the appropriate bid prices. The bid documents are hereby corrected, modified, and/or amended in the following manner:

General:

1. The minutes and attendance roster from the Pre-Bid Conference held virtually on Thursday, February 5, 2026, at 10:00 a.m. are attached.
2. The following questions were asked during the project's advertisement:

Q: Is it possible to combine the three contracts into one contract for bid to obtain better pricing?

A: The contracts will remain separate as detailed in the Bid Form. This structure is intended to provide the Owner flexibility to award contracts individually based on available funding. Furthermore, separating the contracts allows specialized contractors (e.g., generator suppliers or electrical contractors) to bid on specific scopes of work, such as Contract F, without being required to bid on utility line work. As stated in the Advertisement for Bids

and the Bid Form, bidders have the option to bid on one contract, multiple contracts, or all contracts.

Q: What is the anticipated delivery schedule after the pump submittals are approved?

A: Delivery schedules are dependent upon the specific manufacturer selected by the Contractor. The Booster Pump Station specifications (Section 43 01 00) list multiple acceptable manufacturers. Contractors should verify current lead times with their suppliers prior to bidding and account for these timelines in their project schedule.

Q: What is the anticipated delivery schedule after the generator submittal is approved?

A: Delivery schedules are dependent upon the specific manufacturer selected by the Contractor. The specifications list multiple acceptable manufacturers. Contractors should verify current lead times with their suppliers prior to bidding and account for these timelines in their project schedule.

Q: Has ADEM relayed any deadlines to the Engineer regarding ARPA payments being processed?

A: ADEM's ideal target date for fund expenditure is June 1, 2026, is, but not a mandatory construction completion date, provided that work is progressive and pay requests are submitted on a monthly basis to draw down funds. However, October 1, 2026, is the strict deadline for ADEM to receive final Pay Requests. To ensure this deadline is met, accounting for the required advertisement period and closeout administration, the Contractor must plan to submit the Final Pay Request no later than September 1, 2026.

Q: What is the Engineer's construction cost estimate?

A: The estimate for this project is \$750k - \$900k. With a breakdown by contract of:

- Contract D: \$100k - \$150k
- Contract E: \$500k - \$550k
- Contract F: \$150k - \$200k

This Addendum No. 1 shall be attached to the front of your set of Specifications and made a part of the Specifications and Contract Documents. Acknowledgment of receipt of Addendum No. 1 shall be noted on Page 00 41 43-1 of the Bid Form.

THE KELLEY GROUP, LLC.

By: *Stephen Springfield*
Stephen Springfield, P.E.

Addendum #1 is 25 total pages.
This concludes Addendum #1.

PRE-BID MEETING MINUTES

**TOWN OF WEST BLOCTON
 WATER SYSTEM IMPROVEMENTS: CONTRACTS D, E, & F
 THURSDAY, FEBRUARY 5, 2026, AT 10:00 A.M.
 DWSRF ARPA PROJECT NO. FS010192-02 / KG PROJECT NO. 22-0026**

Note: The following is a combination of the pre-bid meeting agenda and minutes. It does not attempt to, nor does it represent a total recapitulation of Project requirements and does not change or alter same in any respect.

General Review Items

1	Welcoming remarks. Sign in sheet is attached.
2	<p>Introduction of Owner: Town of West Blocton (205) 938-7622 Daniel Sims, Mayor Jonathan Lawley, Water System Manager, (205) 860-0056</p> <p>Introduction of Engineer: The Kelley Group, LLC (256) 248-7030 Bart Taft, P.E., Owner, bart@kelleynetwork.com Kelley Taft, MPA, Owner, kelley@kelleynetwork.com Stephen Springfield, P.E., stephen@kelleynetwork.com Jessica Mandrell, Project Manager, jessica@kelleynetwork.com</p>
3	<p><u>FUNDING BACKGROUND</u></p> <p>The Town of West Blocton seeks to improve the water system and has obtained funding through the Drinking Water State Revolving Fund (DWSRF #FS010192-02) American Rescue Plan Act (ARPA) through the Alabama Department of Environmental Management (ADEM). This Project was originally bid in 2024 encompassing Contracts A through F. Contracts A, B, and C have been awarded and constructed. This is a rebid solely for Contracts D, E, and F. The technical specifications and scope descriptions for Contracts A, B, and C have been retained in this document for reference and context regarding the overall water system improvements; however, text associated with Contracts A, B, and C has been struck through to indicate that this work is not part of the current Contract. The Bid Form and Contract Award will apply only to Contracts D, E, and F.</p> <p>The OWNER seeks to contract with the most qualified CONTRACTOR to mitigate risk and delays to project construction and funding timelines, as all ARPA funded projects must be completed and closed out by December 31, 2026. The CONTRACTOR’s employee workforce, equipment, and availability will be key components of evaluation.</p> <p><u>GENERAL</u></p> <p>1. At the time of the bid, each bidder must:</p> <p style="padding-left: 20px;">a. Submit evidence of an Alabama Licensing Board for General Contractor’s license with a major classification of MU (Municipal & Utility), or another AGC Licensing Board approved classification. If the bidder has a single or multiple specialties of MU, as long as those specialties are 51% or more of the total cost of the project, the GC can bid this</p>

	<p>project. License number and classification must be written on the outside of the sealed bid envelope.</p> <ol style="list-style-type: none"> b. Supply the OWNER and ENGINEER with a minimum of three (3) references and validation of performing similar type of municipal water system improvements projects. c. Provide proof of enrollment in the Alabama eVerify program and continue to use eVerify to check employees as directed by the eVerify system if awarded the contract. This enrollment proof is a copy of the eVerify Memorandum of Understanding. d. Provide proof of active registration with the System of Award Management (SAM) website. <ol style="list-style-type: none"> 2. The CONTRACTOR that the contract is awarded to must also: <ol style="list-style-type: none"> a. Furnish a Performance Bond for one hundred (100%) percent of the bid amount and a Labor and Material Payment bond for one hundred (100%) percent of the bid amount and must secure bond from a bonding company's agent in the State of Alabama. b. Provide the Beason-Hammon Alabama Taxpayer and Citizen Protection Act certification form. 3. DBE Utilization – It is the policy of the State Revolving Loan Fund (SRF) to promote a “fair share” of sub-agreement awards to small, minority, and/or women-owned businesses for equipment, supplies, construction, and services. Compliance with these contract provisions is required in order for project costs to be eligible for SRF funding. See Section 00 73 01 ADEM Supplemental General Conditions in the project specifications for detailed information regarding this requirement. 4. Davis Bacon Wages and Certified Payroll – Davis Bacon Prevailing Wage Rates for Bibb County are required. Davis Bacon posters shall be posted at a prominent location at the job site (i.e. on back of project sign). WH-347 Certified Payroll forms are required to be submitted to the ENGINEER with each application for payment for every week during the project. 5. Salary Surveys to be conducted by the ENGINEER. Onsite employee interviews will be scheduled with the ENGINEER two (2) weeks from start of construction and again two (2) weeks from completion. 6. American Iron and Steel (AIS) - All iron and steel products used in the project are to be produced in the U.S.A. Certification of Compliance with AIS Requirements is required to be submitted with each pay application. AIS Manufacturer letters are required with material submittals. 7. Build America, Buy America (BABA) – a waiver was obtained for this project. 8. DWSRF Project Sign – Each awarded Contract requires a DWSRF project sign to be placed in a prominent location, easily readable from existing street or roadway. Project signs are to remain for the duration of the projects. 9. Invoicing – Pay Applications are to be submitted to the ENGINEER on or before the 25th of each month. No invoices should ever be submitted to the OWNER. Release of Liens is required to be submitted with each pay application. 10. Change Orders – Change Orders are to be processed by the ENGINEER before any additional labor is performed, or materials are ordered. All change orders for items not listed in the bid form will be processed as outlined in the executed contracts. Only formally executed and approved change orders will be recognized. Bid Line items for work to be performed are only estimated quantities. A summary change order to resolve the actual quantities used is to be expected at the project's end.
--	---

11. If the OWNER allows work on the weekends, the CONTRACTOR may request approval from the ENGINEER to work Saturday and Sunday a minimum of 48 hours prior to the weekend.
12. **Weather Days** - Any weather days to be used by the CONTRACTOR shall be communicated by the CONTRACTOR to the ENGINEER with the Weather Delay Report provided in the contract specifications. CONTRACTOR to provide Weather Delay report with each pay application. Weather days will not be processed at the end of the project.

WORK UNDER THIS CONTRACT

1. The project consists of Contract D: County Road 9 District Water Meter Installation; Contract E: Town Tank and Smith Hill Tank Upgrades; Contract F: Spring Generator Replacement. There is one set of plans and specifications. The bid form is divided into separate contracts based on the type of work to be performed. Bidders have the option to bid on one contract, multiple contracts, or all contracts.
2. The work is to be performed, but not limited to, in accordance with SECTION 01 11 13 Summary of Work (attached for reference).
3. Bidders are advised to visit the sites to become familiar with the size, configuration and working conditions prior to submitting a bid. CONTRACTOR can make arrangements to inspect the sites by contacting Jessica Mandrell, Project Manager, at The Kelley Group, (256) 248-7030, or jessica@kelleynetwork.com.

Contract D – County Road 9 District Meter Installation

4. The work for Contract D consists of replacing the existing 2” district meter on County Road 9 with a 3” SCADA-integrated Master Meter Octave Ultrasonic Flow Meter. The Contractor shall provide all labor, materials, electrical service, SCADA hardware and integration, conduit, and wiring to deliver a fully functional remote-monitored district meter, including field verification of existing water mains and coordination with the power provider.

Contract E – Town Tank and Smith Hill Tank Upgrades

5. The work for Contract E consists of installing remote-operated 6” solenoid valve assemblies at the Town and Smith Hill Tanks and replacing the existing Smith Hill Booster Pump Station. The CONTRACTOR shall provide all labor, materials, electrical service, SCADA integration, piping, valves, and testing to deliver fully operational systems, including demolition of the existing station and turnover of removed equipment to the OWNER.

Contract F – Spring Pump Station Generator Replacement

6. The work consists of removing the existing propane backup generator and tank at the Spring Pump Station and replacing them with a new diesel-powered standby generator system. The CONTRACTOR shall provide all labor, materials, installation, electrical and SCADA connections, transfer switch, testing, and commissioning to deliver a fully functional backup power system, and shall remove and deliver the existing equipment to the OWNER for reuse.

4

Project plans and specifications are available at www.kelleynetworkplans.com for reproduction costs, non-refundable.

5	Bids will be received until Thursday, February 19, 2026, at 10:00 a.m. CST, at West Blocton Municipal Building, located at 62 Walter Owens Drive, West Blocton, AL 35184.
6	<i>ALL</i> addenda shall be included in bid documents. At the time of the Pre-Bid, no addendums have been issued.
7	<i>ALL</i> questions shall be submitted in writing to Stephen Springfield, P.E., at stephen@kelleynetwork.com and Jessica Mandrell, Project Manager, at jessica@kelleynetwork.com .

Contract Items

1	A Bid Bond no less than 5% of the bid amount, but in no event to exceed \$10,000, is required to be submitted with your bid.
2	<p>Time for Completion & Liquidated Damages</p> <ul style="list-style-type: none"> • Contract D: County Road 9 District Meter Installation <ul style="list-style-type: none"> ○ Substantial Completion: 30 Calendar Days ○ Final Completion: 60 Calendar Days • Contract E: Town Tank and Smith Hill Tank Upgrades <ul style="list-style-type: none"> ○ Substantial Completion: 90 Calendar Days ○ Final Completion: 120 Calendar Days • Contract F: Spring Pump Station Generator Replacement <ul style="list-style-type: none"> ○ Substantial Completion: 60 Calendar Days ○ Final Completion: 90 Calendar Days • Liquidated Damages - \$500.00/day

END OF PRE-BID CONFERENCE MINUTES

**ATTENDANCE ROSTER
 VIRTUAL PRE-BID CONFERENCE
 TOWN OF WEST BLOCTON
 WATER SYSTEM IMPROVEMENTS: CONTRACTS D, E, & F
 THURSDAY, FEBRUARY 5, 2026 AT 10:00 A.M.
 DWSRF PROJECT NO. FS010192-02 / KG PROJECT NO. 22-0026**

NAME	REPRESENTING	PHONE NO.	EMAIL ADDRESS
Stephen Springfield	The Kelley Group	(256) 248-7030	stephen@kelleynetwork.com
Bart Taft	The Kelley Group	(256) 248-7030	bart@kelleynetwork.com
Kelley Taft	The Kelley Group	(256) 248-7030	kelley@kelleynetwork.com
Luke Wade	The Kelley Group	(256) 248-7030	luke@kelleynetwork.com
Jonathan Lawley	Town of West Blocton	(205) 860-0056	watersuper@townofwestblocton.org
Alyssa Frantz	Maguire Iron	(605) 334-9749	frantza@maguirewater.com
Tom Hale	REV Construction	(205) 349-1860	thale@revconstructioninc.com
Matt Causey	Causey Underground Construction	(334) 371-6991	office@cuc-llc.com
Daniel Price	Price Civil Services	(205) 764-6800	daniel@pricecivil.com
AJ Coffey	Jet Pep	(256) 796-2237	ajcoffey@jetpep.com

SECTION 01 11 13
SUMMARY OF WORK

PART 1 – GENERAL

1.01 CONTRACT DESCRIPTION

- A. Contract Type: Unit Price as described in Agreement – EJCDC
- B. The contract award, if made, will be made to the low responsive bidder. A “responsive” bid shall be evidenced by: (1) A Bid form complete in accordance with the Instructions to Bidders and with instruction and/or requests contained in any other sections of the Contract Documents; (2) A Bid Form not evidencing any apparent unbalanced pricing for performance of the Items of Work; (3) a Bid Form without excisions, special conditions or qualifications made by the Bidder; and (4) a Bid Form containing no alternative bids or offerings for any items unless such alternative bids or offerings are requested in the Technical Specifications or Contract Documents.
- C. The successful bidder must furnish a Performance Bond for one hundred (100%) percent of the bid amount and a Labor and Material Payment bond for one hundred (100%) percent of the bid amount and must secure his bond from a bonding company’s representative or agent in the State of Alabama.
- D. The attention of bidders is called to provisions of State Law Governing General Conditions, as set forth in Chapter 4 (Section 65 to 82, inclusive) of Title 46 of the Code of Alabama of 1940, as amended; and bidders shall be governed by law insofar as it is applicable. The above-mentioned provisions of the Code make it illegal for the OWNER to consider a Bid from anyone who is not properly licensed under such code provisions. The OWNER, therefore, will not consider any bid unless the bidder produces evidence that he is so licensed. **The bidder must submit evidence of the bidder’s Alabama Licensing Board for General Contractor’s license with a major classification of MU (Municipal & Utility).**
- E. Neither will the OWNER enter into a Contract with a foreign corporation which is not qualified under State Law to do business in the State of Alabama. **The CONTRACTOR must include his General CONTRACTOR’s license number and classification on the outside of the sealed bid envelope.**
- F. Unit Price
 - 1. Bidders shall submit a Bid on a unit price basis for each item of Work listed in the Bid schedule.
 - 2. The total of all estimated prices will be determined as the sum of the products of the estimated quantity of each item and the unit price Bid for the item. The final quantities and Contract Price will be determined in accordance with paragraph 11.03 of the General Conditions.

3. Discrepancies between the multiplication of units of Work and unit prices will be resolved in favor of the unit prices. Discrepancies between the indicated sum of any column of figures and the correct sum thereof will be resolved in favor of the correct sum. Discrepancies between words and figures will be resolved in favor of the words.
4. Bidders acknowledge that the OWNER may award all, some, or none of the bid items listed in the Bid Form. OWNER will choose which bid items, if any, to award at their sole discretion, or at the recommendation of the ENGINEER. Successful bidder shall reserve the right to accept award of contract at their sole discretion.

1.02 PROJECT DESCRIPTION

- A. The OWNER obtained funding through the Alabama Department of Environmental Management (ADEM) Drinking Water State Revolving Fund (DWSRF) and American Rescue Plan Act (ARPA) programs to make improvements to the water distribution infrastructure including water main upgrades, valve replacements, and mechanical equipment upgrades.
- B. The Contracts provide all labor and ancillary materials to furnish and install water mains, flushing assemblies, various system valves, a standby generator, an integrated district meter, integrated flow shutoff actuators, and an integrated booster pump station replacement.
- C. A location map is included in the Contract Documents for West Blocton's water production spring, Smith Hill Tank, Town Tank, and various other locations. Bidder is advised to visit the sites to become familiar with the size, configuration and working conditions prior to submitting a bid. CONTRACTOR can make arrangements to inspect the sites by contacting Jessica Mandrell, Project Manager, at The Kelley Group, (256) 248-7030, or jessica@kelleynetwork.com.

1.03 WORK UNDER THIS CONTRACT

- A. Work to be performed, including work listed and unlisted in the contract documents, shall be in accordance with specifications and plans prepared by The Kelley Group, LLC.
- B. The CONTRACTOR will notify the ENGINEER by 8 a.m. Friday of the next week's operations and promptly notify the ENGINEER of any work stoppages due to weather or other conditions preventing work, partial or complete days. The CONTRACTOR will provide the OWNER and ENGINEER with the facilities where work will occur each week and the estimated time that the facilities will be out of service, should that be required.
- C. This Project was originally bid in 2024 encompassing Contracts A through F. Contracts A, B, and C have been awarded and constructed. This solicitation is a rebid solely for Contracts D, E, and F. The technical specifications and scope descriptions for Contracts A, B, and C have been retained in this document for reference and context regarding the overall water system improvements; however, text associated with Contracts A, B, and C

has been struck through to indicate that this work is not part of the current Contract. The Bid Form and Contract Award will apply only to Contracts D, E, and F.

- D. Previous Addenda Nos. 1, 2, 3, and 4, issued during the initial bidding phase (2024), are attached to this Project Manual as Appendix C. These Addenda are hereby incorporated and made a part of the Contract Documents. The Contractor shall be bound by and shall perform the Work in strict accordance with all applicable technical, administrative, and material requirements contained within these Addenda, except where superseded by this current solicitation.
- E. The project consists of: ~~Contract A—Bishop Ridge Road Water Main; Contract B—Vernon Town Road Water Main; Contract C—Frog Level Road and Spring Valve Replacement, Flushing Assembly Installation;~~ Contract D – County Road 9 District Meter; Contract E – Town Tank Upgrades and Smith Hill Tank Upgrades; Contract F - Spring Generator Replacement. There is one set of plans and specifications. The bid form is divided into separate contracts based on the type of work to be performed. **Bidding contractors have the option to bid on one contract, multiple contracts, or all contracts. The Owner reserves the right to award all, any, or none of the Contracts and/or bid items.**

~~F. Contract A—Bishop Ridge Road Water Main Replacement~~

- ~~1. West Blocton seeks to replace the existing 6" PVC water main along Bishop Ridge Road with a new 6" PVC water main to alleviate broken and leaking pipe issues contributing to high water loss. Due to the high water loss, the Bishop Ridge Rd waterline is a priority over the Vernontown Rd waterline.~~
- ~~2. CONTRACTOR shall furnish and install 6" PVC Water Main, 6" Restrained Joint Ductile Iron Water Main (as required in areas of high pressure), 12" Casing Pipe (Open Cut and Jack and Bore), valves, appurtenances, erosion control, traffic control, testing, disinfection, driveway repair, seeding, cleanup, etc. as required to provide a fully functional water distribution main. Proposed water main shall commence with a connection to a proposed booster pump station (separate contract) at STA 0+00 and shall extend approximately 24,550 linear feet to a connection with an existing water main at STA 245+66.~~
- ~~3. Per the owner's experience with line breaks and repairs along Bishop Ridge Rd, Sta. 178+00 to Sta. 196+00 is mostly rock. Contractor shall make provisions for rock removal within this area, and other areas along Bishop Ridge Rd as needed.
 - ~~a. Required trench depth and width are outlined in Section 1.13 below. All trenches within rock shall be 2'-0" wide plus the outside diameter of the pipe barrel. The required depth of the trench shall be a minimum of 3'-0".~~
 - ~~b. All hammered rock shall be hauled and disposed of off-site and shall not be used as backfill for the water line. Cost for rock hammering, hauling, disposal,~~~~

~~trenching, over excavation for pipe bells, stone backfill, etc. shall be considered subsidiary to the rock excavation line item.~~

- ~~4. Bibb County Commission has plans for road improvements to Bishop Ridge Road. The contractor is required to coordinate with the Bibb County Commission and Bibb County Engineer, Jeff McKinney, during all construction along Bishop Ridge Road.~~

~~Jeff McKinney – Bibb County Engineer
E: JeffMcKinney@bibbal.com
P: (205) 926-3111~~

- ~~a. In areas of conflict with existing utilities or limited shoulder along Bishop Ridge Road, the Contractor may be required to excavate existing paving for the water line installation. The Contractor will be required to replace all existing pavement disturbed for the water line installation. All paving replacement shall meet the County's specifications for county road paving replacement. Refer to detail 14 sht. 26 of the plans for typical asphalt patching. Contractor is responsible for confirming Bibb Counties paving/patching requirements. If Bibb County paving requirements differ from the detail shown, Bibb Counties requirements shall take precedence.~~
- ~~b. A bid line item for paving replacement is included in the bid form. The quantities specified are not indicated in the plan set, but have been assigned to determine a price for paving replacement, if necessary.~~
- ~~c. The contractor shall request permission to open cut roads from Bibb County Engineer if open cut installation is preferred at road crossings. No open cut road crossings will be allowed until written permission is obtained, by the contractor, from the Bibb County Engineer.~~
- ~~d. The contractor shall coordinate with adjacent property owners to acquire any necessary written easement for boring and/or receiving pits.~~
- ~~5. CONTRACTOR shall furnish and install a pressure reducing valve assembly at approximately STA 178+00 as shown on the plans. Assembly shall include valve, valve vault, bypass system, locking hatch, drain line, etc. to provide a fully functional pressure reduction system.~~
- ~~a. Pressure reducing valve shall be set to an effluent pressure of 30 psi, unless otherwise field directed by ENGINEER.~~
- ~~b. Contractor shall provide spare low flow pressure reducing valve with PRV assembly.~~
- ~~c. Pressure reducing valve shall be manufactured by Bermad, Flomatic, or Engineer approved equal.~~

- ~~6. CONTRACTOR shall furnish and install 6" Pipe Cleansing Blowoff Assemblies approximately at locations where fire hydrants exist. Pipe Cleansing Blowoff Assemblies shall be installed per the details in the Contract Documents.~~
- ~~7. CONTRACTOR shall furnish and install combination air/vacuum valve assemblies at locations shown on plans. CONTRACTOR shall field locate valve assemblies to high point of proposed water main if high point differs from location shown on plans. Assemblies shall include combination valve, shutoff ball valve, precast doghouse manhole, ductile iron manhole cover, drain, etc. to provide a fully functional air/vacuum release assembly.~~
- ~~8. After the water mains, fittings, and appurtenances have been installed, they shall be subjected to a hydrostatic pressure test. The CONTRACTOR shall pressure test the proposed water mains according to the requirements of the contract documents.
 - ~~a. The CONTRACTOR shall furnish all required equipment and labor to perform the hydrostatic pressure test.~~
 - ~~b. Testing shall be conducted in accordance with AWWA C600. The method and procedures for performing the hydrostatic pressure test shall be approved by the Engineer. Submit the plan for testing to the Engineer at least 10 days before starting the test.~~
 - ~~c. The ENGINEER or ENGINEER's Authorized Representative shall document each test.~~~~
- ~~9. After the water mains, fittings, and appurtenances have been installed and pressure tested, the water main shall be flushed to remove any contamination, dirt, or debris left in the main after installation.
 - ~~a. The CONTRACTOR shall provide a flushing velocity of at least 3.0 ft/s to 5.0 ft/s.~~
 - ~~b. The CONTRACTOR is responsible for installing the required number of hydrants capable of achieving the required minimum flow rate, whether called for on the plans or not. There will be no additional payment made for installation of the necessary hydrants or their removal and capping of the hydrant location after proper flushing has been achieved should the hydrants not be a permanent fixture of the water main.~~
 - ~~c. If adequate water cannot be provided to yield the proper velocity through the pipe, mechanical cleaning will be required.~~~~
- ~~10. After the pipelines, valves, fittings and appurtenances have been installed, tested, and flushed, they shall be disinfected in accordance with the method set forth in the latest edition of AWWA C651-23, and all applicable ADEM regulations.~~

- a. ~~AWWA C651-23 is included in addendum #2.~~
 - b. ~~The cost of disinfecting the mains shall be included in the price bid, and the CONTRACTOR shall provide all required equipment and the chlorinating agent.~~
 - c. ~~The responsibility of ensuring satisfactory bacteriological samples shall be the CONTRACTOR's and he shall, if necessary, repeat the disinfection procedure until satisfactory results are obtained. The CONTRACTOR shall submit these samples to the applicable regulatory agency for bacteriological analysis. Collection and submittal of the samples shall meet the requirements of the applicable regulatory agency.~~
 - d. ~~Water for flushing and disinfecting are the responsibility of the CONTRACTOR.~~
11. ~~CONTRACTOR shall furnish and install all materials required to reconnect existing short side and long side services to the proposed water main. CONTRACTOR shall ensure that water service to each meter is active prior to leaving the site upon completion of construction.~~

G. ~~Contract B - Vernon Town Road Water Main Replacement~~

- 1. ~~West Blocton seeks to replace the existing 3" PVC water main along Vernon Town Road with a new 3" PVC water main to alleviate broken and leaking pipe issues contributing to high water loss.~~
- 2. ~~CONTRACTOR shall furnish and install 3" PVC Water Main, 6" Casing Pipe (Open Cut and Jack-and-Bore), valves, appurtenances, erosion control, traffic control, testing, disinfection, driveway repair, seeding, cleanup, etc. as required to provide a fully functional water distribution main. Proposed water main shall commence with an end of line valve assembly at STA 0+00 and shall extend approximately 3,700 linear feet to a connection with an existing 3" water main at STA 36+93.~~
- 3. ~~CONTRACTOR shall furnish and install combination air/vacuum valve assemblies at locations shown on plans. CONTRACTOR shall field locate valve assemblies to high point of proposed water main if high point differs from location shown on plans. Assemblies shall include combination valve, shutoff ball valve, precast doghouse manhole, ductile iron manhole cover, drain, etc. to provide a fully functional air/vacuum release assembly.~~
- 4. ~~In areas of conflict with existing utilities or limited shoulder along Vernon Town Road, the Contractor may be required to excavate the existing road for the water line installation. The Contractor will be required to replace all existing pavement disturbed for the water line installation, if present. All paving replacement shall meet the County's specifications for county road paving replacement. Refer to detail 14 sht. 26 of the plans for typical asphalt patching. Contractor is responsible for confirming Bibb Counties~~

~~paving/patching requirements. If Bibb County paving requirements differ from the detail shown, Bibb Counties requirements shall take precedence.~~

- ~~a. A bid line item for paving replacement is included in the bid form. The quantities specified are not indicated in the plan set, but have been assigned to determine a price for paving replacement, if necessary.~~
 - ~~b. The contractor shall request permission to open cut roads from Bibb County Engineer if open cut installation is preferred. No open cut road crossings will be allowed until written permission is obtained, by the contractor, from the Bibb County Engineer.~~
 - ~~c. The contractor shall coordinate with adjacent property owners to acquire any necessary written easement for boring and/or receiving pits.~~
- ~~5. CONTRACTOR shall test and disinfect proposed water main to ensure the requirements of the Contract Documents and of the AWWA standards are met, at a minimum, prior to beginning providing customer re-connections.~~
- ~~6. CONTRACTOR shall furnish and install all materials required to reconnect existing short side and long side services to the proposed water main. CONTRACTOR shall ensure that water service to each meter is active prior to leaving the site upon completion of construction.~~
- ~~7. After the water mains, fittings, and appurtenances have been installed, they shall be subjected to a hydrostatic pressure test. The CONTRACTOR shall pressure test the proposed water mains according to the requirements of the contract documents.~~
- ~~a. The CONTRACTOR shall furnish all required equipment and labor to perform the hydrostatic pressure test.~~
 - ~~b. Testing shall be conducted in accordance with AWWA C600. The method and procedures for performing the hydrostatic pressure test shall be approved by the Engineer. Submit the plan for testing to the Engineer at least 10 days before starting the test.~~
 - ~~c. The ENGINEER or ENGINEER's Authorized Representative shall document each test.~~
- ~~8. After the water mains, fittings, and appurtenances have been installed and pressure tested, the water main shall be flushed to remove any contamination, dirt, or debris left in the main after installation.~~
- ~~a. The CONTRACTOR shall provide a flushing velocity of at least 3.0 ft/s to 5.0 ft/s.~~

- ~~b. The CONTRACTOR is responsible for installing the required number of hydrants capable of achieving the required minimum flow rate, whether called for on the plans or not. There will be no additional payment made for installation of the necessary hydrants or their removal and capping of the hydrant location after proper flushing has been achieved should the hydrants not be a permanent fixture of the water main.~~
- ~~c. If adequate water cannot be provided to yield the proper velocity through the pipe, mechanical cleaning will be required.~~
- ~~9. After the pipelines, valves, fittings and appurtenances have been installed, tested, and flushed, they shall be disinfected in accordance with the method set forth in the latest edition of AWWA C651-23, and all applicable ADEM regulations.~~
 - ~~a. AWWA C651-23 is included in addendum #2.~~
 - ~~b. The cost of disinfecting the mains shall be included in the price bid, and the CONTRACTOR shall provide all required equipment and the chlorinating agent.~~
 - ~~c. The responsibility of ensuring satisfactory bacteriological samples shall be the CONTRACTOR's and he shall, if necessary, repeat the disinfection procedure until satisfactory results are obtained. The CONTRACTOR shall submit these samples to the applicable regulatory agency for bacteriological analysis. Collection and submittal of the samples shall meet the requirements of the applicable regulatory agency.~~
 - ~~d. Water for flushing and disinfecting are the responsibility of the CONTRACTOR.~~

~~H. Contract C — Frog Level Road and Spring Valve Replacement, Pipe Cleansing Assemblies~~

- ~~1. West Blocton seeks to replace one isolation gate valve along Frog Level Road at Evergreen Drive due to failures of the isolation valve. Additionally, West Blocton seeks to replace two (2) 8" gate valves at the Spring water source facility due to the valves leaking. West Blocton seeks to remove existing fire hydrant assemblies at four (4) locations due to leaking and replace them with 6" pipe cleansing blowoff (flushing) assemblies.~~
- ~~2. CONTRACTOR shall remove and replace one (1) 6" gate valve at the intersection of Frog Level Road and Evergreen Drive. CONTRACTOR shall furnish and install valve, valve stem, valve box, cover, valve marker, etc. as required to provide a fully functional shutoff valve.~~
 - ~~a. Work required to install new valves shall be completed at times of minimum water demand. If this occurs at night and night work is necessary, the~~

~~CONTRACTOR shall request permission to work at night at least 48 hours prior to the work from the ENGINEER and OWNER.~~

~~b. CONTRACTOR shall field-locate valve and associated water mains along Frog Level Road and Evergreen Drive. CONTRACTOR shall record diameters and materials of existing water mains, as well as general configuration of water mains at intersection. CONTRACTOR shall report these findings to the ENGINEER in writing prior to replacement of valve.~~

~~3. CONTRACTOR shall remove and replace two (2) 8" gate valves at the discharge of the spring pump station. CONTRACTOR shall furnish and install valve, valve stem, valve box, cover, valve marker, etc. as required to provide a fully functional shutoff valve.~~

~~a. Work required to install new valves shall be completed at times of minimum water demand. If this occurs at night and night work is necessary, the CONTRACTOR shall request permission to work at night at least 48 hours prior to the work from the ENGINEER and OWNER.~~

~~b. Due to the existing steep slopes adjacent to the valves to be replaced and to minimize erosion, the CONTRACTOR shall install 12" rip-rap and geotextile fabric at a slope of no less than 1.5:1.~~

~~4. CONTRACTOR shall remove existing hydrants, hydrant valves, hydrant lead pipes, etc. and replace with new valves, pipe spools, blind flanges, valve boxes, valve markers, covers, etc. per details in the Contract Documents, to provide fully functional 6" pipe cleansing blowoff (flushing) assemblies.~~

~~a. CONTRACTOR shall remove existing hydrants and turn over to the OWNER at the OWNER's direction. CONTRACTOR shall load, haul, and unload hydrants at OWNER's facility as directed by OWNER. Costs associated with this work shall be considered incidental to this bid item.~~

I. Contract D - County Road 9 District Meter Installation

1. The OWNER seeks to replace an existing 2" district meter with a 3" SCADA-integrated district meter along County Road 9 in order to remotely monitor flows in the area to monitor water loss in real time.

2. The district meter shall be a 3" Master Meter Octave Ultrasonic Flow Meter capable of remote operation.

3. CONTRACTOR shall remove the existing 2" meter and vault and replace with a new 3" meter, SCADA hardware, SCADA integration, conduit, wire, etc. as required to provide a fully functional remote-monitored district water meter.

a. CONTRACTOR shall coordinate with local power provider to ensure that 120 V/1 Ph power service (minimum) is provided to the site. CONTRACTOR

shall ensure that service pole, meter, etc. is provided so that any required SCADA hardware is provided an accessible power source.

- 1) Any costs associated with coordination with power provider, connection fees, installation fees, etc. shall be considered incidental to this bid item and is the responsibility of the CONTRACTOR.
 - b. CONTRACTOR shall field-locate the meter and associated appurtenances in the area of the existing meter. CONTRACTOR shall record diameters and materials of existing water mains, as well as the general configuration of water mains at the site. CONTRACTOR shall report these findings to the ENGINEER in writing prior to replacement of the meter.
4. A proposal from West Blocton's existing SCADA integrator, Dexter-Fortson Associates, Inc., is included as Appendix B of the Contract Documents for reference. ENGINEER anticipates bid price for SCADA and associated equipment to be inclusive of integration cost plus typical CONTRACTOR markup of 10-20%. Bid price for SCADA shall be included in the bid line item for the proposed equipment, as listed in the bid form. Dexter-Fortson Associates, Inc. is the preferred System Integrator for this project to maintain continuity with the Town of West Blocton's existing SCADA system.

J. Contract E – Town Tank and Smith Hill Tank Upgrades

1. The OWNER seeks to install a remote operated two-way solenoid valve at the Town Tank within their distribution system to better be able to control flow from the tank during emergency line breaks in order that the tank does not drain completely. The scope of work for Town Tank is as follows:
 - a. CONTRACTOR shall furnish and install 6" two-way solenoid controlled electric powered valve, concrete vault, lockable hatch, bypass line and gate valve, conduit, wiring, SCADA hardware & integration, etc. to provide a fully functional remote-operated isolation valve. Per Addendum #3, this remote operated 2-way solenoid valve is required in lieu of a gate valve with electric actuator.
 - b. System integrator shall integrate valve into OWNER's SCADA system in order that the valve can be opened/closed remotely from the water system operator's office computer, smartphone, or tablet.
 - c. CONTRACTOR shall coordinate with local power provider in order to ensure that 120 V/1 Ph power service (minimum) is provided to the site. CONTRACTOR shall ensure that service pole, meter, etc. is provided in order that electric operated valve and any required SCADA hardware is provided an accessible power source.

- 1) Any costs associated with coordination with power provider, connection fees, installation fees, etc. shall be considered incidental to this bid item.
2. The OWNER seeks to replace the existing Smith Hill Booster Pump Station with a station constructed using current-day technology as the existing station has exceeded its useful service life. Additionally, the OWNER seeks to install a 6" two-way solenoid controlled electric powered valve at the Smith Hill Tank within their distribution system to better be able to control flow from the tank during emergency line breaks in order that the tank does not drain completely. The Smith Hill Tank upgrades are as follows:
 - a. CONTRACTOR shall furnish and install package booster pump station with FRP enclosure, pump skid, pumps, discharge piping, hydropneumatics tank, variable frequency drives, flow meter, pump control panel, concrete pad, mechanical anchors, conduit, wiring, SCADA hardware, disinfection, testing, start-up, etc. as required to provide a fully functional booster pump station system.
 - b. CONTRACTOR shall furnish and install yard piping, valves, valve boxes, covers, markers, etc. as required to connect the proposed booster pump station to suction piping and discharge piping along Bishop Ridge Road.
 - c. CONTRACTOR shall furnish and install any required electrical wiring, conduit, etc. to connect proposed booster pump station to existing power service per pump station manufacturer's recommendations.
 - 1) CONTRACTOR shall ensure that 230 V/3 Ph power service (minimum) is provided to the Smith Hill Booster Pump Station.
 - 2) Any costs associated with coordination with power provider, connection fees, installation fees, etc. shall be considered incidental to this bid item.
 - d. CONTRACTOR shall demolish existing booster pump station building, pump equipment, hydropneumatic equipment, discharge pipe, electrical equipment, etc. once proposed booster pump station is started-up and accepted by OWNER and ENGINEER.
 - 1) CONTRACTOR shall turn over any equipment to OWNER as desired by the OWNER and at the OWNER's discretion.
 - 2) CONTRACTOR shall load, haul, and unload equipment at a facility of the OWNER's choosing, and the cost for this work shall be considered incidental to this bid item.
 - e. CONTRACTOR shall furnish and install 6" two-way solenoid controlled electric powered valve, concrete vault, lockable hatch, bypass line and gate valve, conduit, wiring, SCADA hardware, etc. to provide a fully functional

remote-operated isolation valve. Per Addendum #3, this remote operated 2-way solenoid valve is required in lieu of a gate valve with electric actuator.

- f. System integrator shall integrate valve into West Blocton's SCADA system in order that the valve can be opened/closed remotely from the water system operator's office computer, smartphone, or tablet.
 - g. CONTRACTOR shall ensure that 120 V/1 Ph power service (minimum) is provided to the valve and SCADA hardware. CONTRACTOR shall ensure that service pole, meter, etc. are provided in order that electric operated valve and any required SCADA hardware is provided an accessible power source.
 - 1) Any costs associated with coordination with power provider, connection fees, installation fees, etc. shall be considered incidental to this bid item.
3. Prior to commencing any work on active water mains, the CONTRACTOR shall coordinate with the OWNER to identify and field-locate existing isolation valves necessary to isolate the specific sections of the water line. The CONTRACTOR shall schedule a time to verify the operability of these valves in the presence of the OWNER to ensure a dry work area. If existing valves are identified by the OWNER but found to be inoperable or insufficient to achieve isolation, the CONTRACTOR shall provide alternative means of isolation (such as insertion valves or line stops) as subsidiary to the Contract.
 4. A proposal from West Blocton's existing SCADA integrator, Dexter-Fortson Associates, Inc., is included as Appendix B of the Contract Documents for reference. ENGINEER anticipates bid price for SCADA and associated equipment to be inclusive of integration cost plus typical CONTRACTOR markup of 10-20%. Bid price for SCADA shall be included in the bid line item for the proposed equipment, as listed in the bid form. This item is not intended to prevent other SCADA integrators from bidding on the project, and alternative integrators will be considered pursuant to the Contract Documents.

K. Contract F - Spring Pump Station Generator Replacement

1. The OWNER seeks to remove the existing propane backup generator at the Spring Pump Station and replace with a diesel-powered backup generator.
2. Provide all labor, equipment, and materials and perform all operations necessary to remove the existing generator set and replace with new. The new generator set shall be manufactured by Taylor Power Systems, Model TD175, 277/480 V, 3 phase, 60 Hz stand by rating, or approved equal. Given their strict adherence to the Contract Specifications, Kohler and Generac shall be considered acceptable manufacturers of the proposed standby generator.

3. Installation shall include, but not limited to, placement of the generator on the existing slab, verifying electrical conduit stub up location in existing slab, pulling of new wires for SCADA/power, connecting switchgear and mains power, testing, initial fill of diesel fuel, oil, and all other fluids, and all work to provide an operating generator set, switchgear, service entrance rated automatic transfer switch (ATS) including a main disconnect, and controller connected to SCADA. The ATS shall be sized to match the generator. Should a generator by an approved alternate manufacturer be selected, the CONTRACTOR will be responsible for pairing the generator with the appropriate switchgear.
4. CONTRACTOR shall remove existing backup generator and propane tank and turn it over to OWNER for reuse at a different facility. CONTRACTOR shall furnish and install any additional conduit, wiring, mechanical anchors, concrete, rebar, replacement electrical equipment, new generator, etc. as required to provide a fully functional backup power system.
 - a. CONTRACTOR shall be responsible for loading, hauling, and unloading existing generator and propane tank at the direction of the OWNER. All costs associated with this work shall be considered incidental to the generator bid item.
5. CONTRACTOR to coordinate with existing SCADA Integrator (Dexter Fortson and Associates) to ensure proposed generator and controls are integrated such that run status and any alarms will be notified to the system operator. All prices for SCADA shall be incidental to the proposed generator bid line item.
6. A proposal from West Blocton's existing SCADA integrator, Dexter-Fortson Associates, Inc., is included as Appendix B of the Contract Documents for reference. ENGINEER anticipates bid price for SCADA and associated equipment to be inclusive of integration cost plus typical CONTRACTOR markup of 10-20%. Bid price for SCADA shall be included in the bid line item for the proposed equipment, as listed in the bid form. Dexter-Fortson Associates, Inc. is the preferred System Integrator for this project to maintain continuity with the Town of West Blocton's existing SCADA system.

1.04 PROJECT OBJECTIVES

~~A. Contract A: Bishop Ridge Water Main Replacement~~

- ~~1. Install replacement 6" water main along Bishop Ridge Road.~~

~~B. Contract B: Vernon Town Road Water Main Replacement~~

- ~~1. Install replacement 3" water main along Vernon Town Road.~~

~~C. Contract C: Frog Level Road and Spring Valve Replacement, Pipe Cleansing Assemblies~~

- ~~1. Replace isolation valve along Frog Level Road at Evergreen Drive.~~
- ~~2. Replace two (2) isolation valves at spring pump station discharge.~~
- ~~3. Remove existing hydrant assemblies (4) and replace with pipe cleansing blowoff assemblies.~~

D. Contract D: County Road 9 District Meter Installation

1. Install new district meter along County Road 9 at Vernon Town Road.

E. Contract E: Town Tank and Smith Hill Tank Upgrades

1. Install remote-controlled electrically operated solenoid isolation valve at Town Tank.
2. Install remote-controlled electrically operated solenoid isolation valve at Smith Hill Tank.
3. Install new booster pump station with flow meter at Smith Hill Tank.

F. Contract F: Spring Pump Station Generator Replacement

1. Install a new backup generator at West Blocton Spring Pump Station.

1.05 SERVICES AND PRODUCTS

A. OWNER's Responsibilities

1. Review shop drawings and submittal data following approval by CONTRACTOR within ten (10) days following receipt.
2. Arrange for and deliver OWNER reviewed Shop Drawings, Product Data, and Samples to CONTRACTOR.
3. **American Iron and Steel (AIS)** requirements are listed in Section 00 73 01 SRF Supplemental General Conditions, page 35. All steel, iron, and manufactured products used in this project are required to be produced in the United States.
4. ADEM has approved a **BABA Waiver** request for this project.
5. Make payments on properly submitted and approved payment requests within 30 days of ENGINEER's review of the submitted invoice.

B. CONTRACTOR's Responsibilities

1. Provide detailed instructions for the construction process/timetable. Supply the OWNER and ENGINEER by 8:00 a.m. each Friday with the planned location of work for the following week. Work will not be performed on weekends, only Monday through Friday unless previously authorized by the OWNER.
2. Schedule for delivery with Supplier; Receive and unload products at site; inspect for completeness or damage.
3. Handle, store, and install finished products in accordance with manufacturer instructions. Provide ENGINEER with written planned execution of the work including plan for the handling, storage, and installation of the supplied products.
4. Provide ENGINEER with CONTRACTOR's invoice by the Friday nearest the 25th of each month. Invoices may be submitted after the 25th of each month however, only one invoice per month will be processed by the OWNER.
5. Attend progress meetings that will be held monthly as close to the 25th of the month as possible, or as needed, to review installations prior to submitting invoice. Approximately one week prior to invoice submittal, contact the ENGINEER's representative for review of quantities. Invoices will not be processed by the ENGINEER until quantities have been reviewed.
6. Require ALL employees associated with the project to be available for salary surveys performed on site. Interviews will be conducted approximately 10 working days after CONTRACTOR notifies OWNER and ENGINEER of the date crews will begin to work. If additional employees are brought to the site after the salary surveys have been performed, the CONTRACTOR is responsible for making arrangements to have late arriving employees interviewed by the ENGINEER at the OWNER's office. Interviews will occur again approximately two (2) weeks prior to substantial completion of work. Substantial Completion payment will not be made to the CONTRACTOR until all interviews are performed.

1.06 STORED MATERIALS

- A. The quantities contained in the Proposal are approximate, and actual installed work may differ from the quantities shown. The CONTRACTOR shall be responsible for inventory control and shall take special care not to order any excess materials.
- B. The OWNER will not be responsible for any stored or leftover materials ordered by the CONTRACTOR. CONTRACTOR shall submit a final invoice for materials that is identical to the quantities installed.
- C. Stored materials may be listed on invoices once confirmed by the ENGINEER's representative. The CONTRACTOR will maintain insurance on any materials listed as stored materials.

1.07 CONTRACTOR'S USE OF SITE

- A. Cooperate with property owners and adjacent property owners to minimize conflict.
- B. Assist OWNER with any site security issues because of construction.

1.08 WORK SEQUENCE

- A. Coordinate construction schedule and operations with the OWNER and ENGINEER.
- B. Provide weekly schedule updates, including changes as they occur.

1.09 LICENSES AND PERMITS

- A. The CONTRACTOR shall be responsible for securing from the Local Municipalities all permits, licenses and for paying all taxes required to perform the Contract Work, if required by the Local Municipality.
- B. The CONTRACTOR shall be responsible for compliance with all Federal, State and local laws and ordinances regarding licenses and permits.
- C. The ENGINEER is obtaining the NPDES permit for the waterline replacement along Bishop Ridge Road. The CONTRACTOR shall assume all responsibility for administering the NPDES permit obtained by the ENGINEER. The CONTRACTOR will be responsible for closing out the NPDES permit at the end of the project and ensuring all requirements have been met.
 - 1. The CONTRACTOR will be responsible for all maintenance of the erosion control devices installed throughout the duration of the project or until permanent erosion control measures have been put into place. The CONTRACTOR will be responsible for removing the erosion control devices after project completion and shall become the property of the CONTRACTOR.

1.10 PROTECTION OF THE OWNER, WORKMEN, AND THE PUBLIC

- A. The CONTRACTOR is responsible for the safe execution and precaution of the work.
- B. The ENGINEER and the OWNER shall not be required to act as Safety Engineers or Safety Supervisors.
- C. The CONTRACTOR is solely responsible for the safe prosecution of the work.
- D. It is the CONTRACTOR's responsibility to secure advice from the Safety officer from his insurance company.

1.11 LOCATION OF UNDERGROUND OBSTRUCTIONS.

- A. The CONTRACTOR shall be responsible for carefully protecting utilities and storm drains during the execution of the work.
- B. Utilities that are damaged due to activities of the CONTRACTOR shall be repaired at no expense to the property OWNER.

1.12 REGULATORY REQUIREMENTS

- A. Secure from the office of the Inspection Services, Division of the Public Works Department of the Local Municipalities, Information for regulatory licenses, and permits required.
- B. Obtain permits and licenses from each Municipality, if required.
- C. Requirements contained in each individual authority's permit shall become the provisions and requirement for completion of the work.

1.13 ROCK EXCAVATION AND DISPOSAL

- A. See Geotechnical Report in the contract documents for boring information, if provided.
- B. The CONTRACTOR shall have sole responsibility for his own subsurface investigations and shall include the cost of any investigations required in the cost for the work to be performed.
- C. Excavate rock within the boundary lines and grades as shown, specified or required. Use of explosives will not be permitted unless written approval is obtained from the ENGINEER.
 - 1. Rock removed from the excavation becomes the property of the CONTRACTOR. Transport and dispose of excavated rock at an off-site disposal location.
 - 2. Remove all shattered rock and loose pieces.
 - 3. Rock removed during excavation shall not be allowed as backfill material for pipe trenches.
- D. Structure Depths: For Cast-in-place structures, excavate the rock only to the bottom of the structure, foundation slab, or drainage blanket.
- E. Trench Width: Maintain a minimum clear width of the trench at the level of the top of the pipe of the outside diameter of the pipe barrel plus 2 feet, unless otherwise approved.
- F. Trench Depth: For trench excavation in which pipelines are to be placed, excavate the rock to a minimum depth of 6 inches below the bottom of the pipe or duct encasement. Provide a cushion of sand or suitable crushed rock. Refill the excavated space with acceptable pipe bedding material. Include placing, compacting and shaping pipe bedding

material in the appropriate Contract Items. Excavated rock shall not be used as pipe bedding or backfill material.

- G. Manhole Depths: For manhole excavation, excavate the rock to a minimum depth of 8 inches below the bottom of the manhole base for pipelines 24 inches in diameter and larger and 6 inches below the bottom manhole base for pipelines less than 24 inches in diameter. Refill the excavated space with acceptable pipe bedding material. Include placing, compacting and shaping pipe bedding material for manhole bases in the appropriate Contract Items.
- H. Over-excavated Space: Refill the excavated space in rock below structures, pipelines, conduits and manholes, which exceeds the specified depths with 2,500 psi concrete, crushed stone, washed shell, or other material as directed. Include refilling of over-excavated space in rock as part of the rock excavation.
- I. Payment for rock excavation will be made at the Contract unit price per cubic yard as defined in the Technical Specifications, measured in place within the limits outlined below, or as ordered by the ENGINEER. The limits for rock excavation for pipes in open cut will be a horizontal plane 6 inches below the lower outside surface of the pipe barrel and the surface of the rock and vertical planes passing 2 feet outside the horizontal diameter of the pipe barrel. Notify the ENGINEER in writing a sufficient time in advance of the beginning of any rock excavation, so that sufficient elevations and measurements may be obtained. No payment will be made for any rock material excavated or removed before these measurements have been taken. Rock excavation shall only be completed as required and will only be paid for the quantity removed and hauled away. If no rock excavation is required, no payment will be made for rock excavation.
- J. "Rock" includes all materials which, in the opinion of the ENGINEER, require blasting, barring, wedging and/or special impact tools such as jack hammers, sledges, chisels, or similar devices specifically designed for use in cutting or breaking rock for removal from their original beds and which have compressive strengths in their natural undisturbed state in excess of 300 psi. Boulders or masonry larger than one cubic yard in volume are classed as rock excavation

PART 2 – PRODUCTS (NOT USED)

PART 3 – EXECUTION (NOT USED)

END OF SECTION