

**RAVENCLIFF-MCGRAWS-SAULSVILLE PUBLIC SERVICE DISTRICT
WYOMING COUNTY, WEST VIRGINIA**

**PROPOSED
CONTRACT #1 – NEW RICHMOND WATER LINE**

**NOVEMBER 1, 2018
ADDENDUM #3**

To whom it may concern:

A. BOILER PLATE

1. The Bid opening will be held November 8th, 2018 at Wyoming County Commission Office located at 155 Park Street, Pineville, Wyoming County, West Virginia, at 10:00 AM.

B. SPECIFICATIONS

1. **DISREGARD** previous versions of the Specification C-410 – Bid Form and **REPLACE** with the attached Specification C-410 – Bid Form.
2. **DISREGARD** previous versions of the Specification 012000 – Price and Payment Procedures and **REPLACE** with the attached Specification 012000 – Price and Payment Procedures.

C. DRAWINGS

1. **DISREGARD** previous versions of the Index Sheet and **REPLACE** with the attached Index Sheet.
2. **DISREGARD** previous versions of the Plan Sheet No. 8 and **REPLACE** with the attached Plan Sheet No. 8.
3. **ADD** the attached Plan Sheet No. 23 to the plan set.

D. QUESTIONS AND CLARIFICATIONS

1. Question:

There's a bid item for 6" Valve Insertions. Is this item for an "Insert-a-Valve" or is it for cutting in a new valve?

Answer:

Bid Item 26 – 6" Valve Insertion is for the installation of "Insert-a-Valves".

2. Question:

Will the PSD provide water for testing, disinfecting, etc. at no cost to the contractor? If not what is the cost for the water for testing, disinfecting, etc. and a meter/tap for the water?

Answer:

The District will provide water for testing, disinfecting, etc. at no cost to the contractor. The contractor will have to coordinate with the District for testing, disinfection, etc.

3. Question:

Are we to price repainting the outside, inside, or both on the McGraws Water Tank #2?

Answer:

This project proposes to repaint the interior and exterior of the McGraws Water Tank #2.

4. Question:

We are pricing fencing at the existing Twin Falls, Glen Fork and Saulsville Booster Stations; are these sites fairly flat?

Answer:

The Twin Falls, Glen Fork, and Saulsville Booster Stations are fairly flat sites.

5. Question:

Do you have a local/regional supplier for the new Radio Modem and Cables?

Answer:

The District has dealt with C.I. Thornburg for their current telemetry system.

6. Question:

Will you provide a detail for the vault, piping, electrical, etc. for the Electrical Valve @ Keyrock?

Answer:

This bid item has been eliminated from the Bid Form.

7. Question:

Will you provide a detail for the vault(s) piping, etc. for the 8" Check Valve on the Keyrock Side of Saulsville, the 8" Master Meter for Keyrock, & Service Pressure Pit?

Answer:

The 8" Check Valve on the Keyrock Side of Saulsville and the 8" Master Meter for Keyrock has been eliminated from the Bid Form. The details of the Service Pressure Pit can be found on Plan Sheet 13A.

8. Question:

Are the valves that we are to bid under Item 33 – Valve Replacement in Glen Fork (6" & 2" Valve, 2" ARV) cut in connection? Is the ARV in a vault and if so are we replacing the vault and/or piping/ARV? Please describe the work that we are to perform under this item?

Answer:

This bid item has been eliminated from the Bid Form.

9. Question:

Are the work areas for item numbers 23, 29, 30, 31, 33, & 35 through 41 easily accessible or will some type of clearing/access work need to be done?

Answer:

The sites for Twin Falls Booster Station, Glen Fork Booster Station, and Saulsville Booster Station, Service Pressure Pit and all of the valve replacements in the Additive Alternates are accessible. The District will clear the areas if necessary. The Electric Valve @ Keyrock Tank (8-inch), 8" Chck Valve on Keyrock Side of Saulsville (Field Loc), 8" Master Meter for Keyrock, and Valve Replacement in Glen Fork (6" and 2" Valve, 2" ARV) has been removed from the Bid Form.

10. Question:

There is no detail or bid item for the Master Meter Vault Shown on Sheet #3. Will you add a bid item for the Master Meter and provide a detail?

Answer:

Bid Item 25 – Master Meter Vault and Assembly has been added to the Bid Form and Section 012000 – Price and Payment Procedures of the Specifications. Plan Sheet 23 has been added to show the details of the mater meter, pressure sustaining valve and valve vault included under this bid item.

11. Question:

There is no bid item for concrete driveway/road/sidewalk replacement shown on the plans. Will you add a bid item for concrete repair?

Answer:

Bid Item 29 – Concrete Sidewalk/Driveway Repair has been added to the Bid Form and Section 012000 – Price and Payment Procedures of the Specifications.

12. Question:

There is no bid item for 6" DIP shown on the plans. Will you add a bid item for 6" DIP?

Answer:

Bid Item 7 – 6" DIP Water Line has been added to the Bid Form and Section 012000 – Price and Payment Procedures of the Specifications.

13. Question:

There is no bid item for 12" Casing Open Cut across Route 10 shown on Sheet #8. Will you add a bid item for the 12" Casing Open Cut and the Type "A" Asphalt that will be required?

Answer:

Bid Item 14 – 12" Steel Casing (Open Cut) and Bid Item 31 – WVDOH Type "A" Trench Repair has been added to the Bid Form and Section 012000 – Price and Payment Procedures of the Specifications.

14. Question:

Will you add a bid item for the cut & cap of existing waterline by size? If not, please give us the size and quantity of each.

Answer:

Bid Item 12 – 6" Cut and Cap Water Line has been added to the Bid Form and Section 012000 – Price and Payment Procedures of the Specifications.

15. Question:

Please clarify where the 8" ends and the 6" begins on Sheet #8. The plans show an 8"x6" reducer where 6" pipe is shown at Swift Street on Sheet #8.

Answer:

The end of the 8" and the beginning of the 6" is at the 8"x6" reducer at Swift Street. Plan Sheet No. 8 has been revised.

16. Question:

Please Clarify where the tie-ins to existing waterline are located. I can only find 3 of the 6 shown on the bid form.

Answer:

There are only three tie-in locations. The bid quantity has been adjusted.

17. Question:

What type of asphalt replacement is required for Bid Item #21?

Answer:

WVDOH Type "B" Trench Repair is required for Bid Item #28 – Asphalt Pavement Repair.

18. Question:

Do the Meter settings include PRV's?

Answer:

Yes, all water meter settings shall be High Pressure Water Settings.

19. Question:

Where are the 6" valve insertions? Bid item #19.

Answer:

The 6" valve insertions are located at the water line tie-ins.

20. Question:

Do you have drawings and/or descriptions of the additive alternate items 28-38? We need to know limits and exactly what is included in these bid items

Answer:

Radio Modem and Cable Upgrade is the replacement of existing radio modems and cable in the system. These replacement parts are detailed in Section 406700 – Controls and Instrumentation.

Electric Valve @ Keyrock Tank (8-inch) - has been removed from the Bid Form

8" Check Valve on Keyrock Side of Saulsville (Field Loc) - has been removed from the Bid Form

8" Master Meter for Keyrock- has been removed from the Bid Form

Gauge Repair @ Tank- has been removed from the Bid Form

Valve Replacement in Glen Fork (6" and 2" Valve, 2" ARV) – has been removed from the Bid Form

Radio-Read Meter – Is to provide 5/8" x 3/4" radio read water meters.

Service Pressure Pit – The details are shown on Drawing 13A

Replace 8" Valve at Park Intersection, Replace 6" Valve above Cabin Creek Upper Pit, Replace 8" Valve at Sabine Bottom, Replace 4" Valve at Old Saulsville Road, Replace

Valve at McGraws, and Replace 6" Valve above Ravencliff Intersection – All of these items shall include, but not limited to, labor, materials, equipment and other cost associated with the excavation, installation of insertion valves, site reclamation, etc.

21. Question:

The plans show 1" PE service line in several locations but there is no bid item for this. Will a bid item be added for this?

Answer:

Bid Item 18 – 1" PE Service Tubing (Open Cut) has been added to the Bid Form and Section 012000 – Price and Payment Procedures of the Specifications.

22. Question:

Is a separate engineer's trailer required for this project?

Answer:

The Contractor can supply one office trailer with a separate office for the Resident Project Representative.

23. Question:

Will the tank for filter 1 have to be re certified after the manway is put in?

Answer:

Delete reference to manway addition. It is hereby withdrawn from the project.

24. Question:

Will any transducer, radio, and electrical panel work at the Flow Control Building on Cabin Creek Road be included in Bid Item 25 or is Bid Item 28 – Radio and modem Upgrade? Please specify exactly what work will be required.

Answer:

Any transducer, radio, and electrical panel work at the Flow Control Building on Cabin Creek will be included in the lump sum Bid Item 36 – Rehabilitations of Flow Control Building on Cabin Creek Road.

25. Question:

Please provide specifications and drawings for providing the Manway to be constructed in Filter #1 under Bid Item #26. Will Filter 1 have to be repainted? Inside? Outside? Will painting be required in any of the other filters?

Answer:

Delete reference to manway addition. It is hereby withdrawn from the project. No painting will be required.

26. Question:

Please provide specifications and drawings for the valve vaults and hatches included in Bid Items 29, 30, & 31?

Answer:

The Electric Valve @ Keyrock Tank (8-inch), 8" Check Valve on Keyrock Side of Saulsville (Field Loc), and 8" Master Meter for Keyrock have been removed from the Bid Form.

27. Question:

Please provide specifications and drawings for the power drop and electrical work required for Bid Item 29. Will the owner be responsible for providing and paying for power, and Power Company charges, to provide power to the site? If not please specify what these charges will be

Answer:

The Electric Valve @ Keyrock Tank (8-inch) has been removed from the Bid Form.

28. Question:

The specifications on the painting of the tank call out welded repairs as necessary. We have no way to determine how much welding would be required, if any, until the tank has been sandblasted. Can an item be added for Welding per hour?

Answer:

Bid Item 33 - Man-hours for Welding of Pits after Sandblasting 161,000 Gallon McGraws Water Tank #2 (31' x 29') has been added to the Bid Form.

29. Question:

Can the meter sizes of the replacement of Radio Read Meters item on the Additive Alternate be provided?

Answer:

5/8" x 3/4" radio read water meters are to be provided for Bid Item 39 – Radio-Read Meters (Additive Alternate)

30. Question:

Has any tank painting contractors picked up plans for this project?

Answer:

No tank painting contractors are plan holders at the time of this addendum.

31. Question:

What brand are the existing tanks at McGraws, Sabine, & Saulsville and are they all welded steel or are they different type of tank?

Answer:

The tanks at McGraws and Sabine are welded steel water tanks. The Saulsville tank is an Aquastore glass-lined bolted steel tanks.

32. Question:

Do you know of a supplier/installer for the tank gauges?

Answer:

Tank Products, Inc., or equal are acceptable tank gauges.

33. Question:

What is the depth of the filters?

Answer:

The depth of the water filters from sub fill concrete to top of filter is seven feet.

34. Question:

What is the approximate distance to the nearest fire hydrant from the filters?

Answer:

Depending on which filter is in question, the nearest fire hydrant is 50 to 100 linear feet from the filters.

35. Question:

What are the dimensions of the existing McGraws Water Tank #2, the Bid Form states (31'x29') and the Measurement and Payment section states (31'x19')?

Answer:

The dimensions of the existing McGraws Water Tank #2 are 31'x29'.

36. Question:

Can you change the bid opening time to either later in the morning or to early afternoon?

Answer:

The Bid Opening time will **not** be changed.

37. Question:

The bid item for Mobilization/Demobilization cannot exceed 5% of the total bid. Is that total bid amount the base bid total or the base bid plus additive alternate's total?

Answer:

The Mobilization/Demobilization shall not exceed 5% of the total base bid amount.

38. Question:

Will you verify your quantities for you for 8", 6" and 2" pipe, there seems to be quite a bit of difference between bid quantity and what is shown on the plans?

Answer:

The quantities for 8", 6", and 2" pipe have been verified and adjusted on the Bid Form.

39. Question:

For bid item #23 Fence at Twin Falls, Glen Fork, & Saulsville Booster Stations the Drawings show fence at those 3 stations and a drawing of fence for the Cabin Creek Flow Transfer Station. Does this item only include the fence for the stations listed or does it also include fencing for the Cabin Creek Flow Transfer Stations? Also please check your quantity for the item because unless the scale that is shown is wrong I believe you item quantity is much larger than the quantity shown.

Answer:

The quantity of fence for Bid Item 34 – Fence at Twin Falls, Glen Fork, and Saulsville Booster Stations has been verified and adjusted on the Bid Form. The Fence at the Cabin Creek Flow Transfer station will be included in the lump sum Bid Item 33 – Rehabilitation of Flow Control Building on Cabin Creek Road.

40. Question:

For bid item #26 Replace Filter Media in Three Filters at the Water Treatment Plant, The plans state that we need to install a manway in Filter #1. Who is the manufacturer/supplier of the existing filters? If we need to install a manway we will need to contact them to purchase the manway.

Answer:

Tonka Equipment Company is the manufacturer of the existing filter. Delete reference to manway addition, It is hereby withdrawn from the project.

41. Question:

For bid item #26 Replace Filter Media in Three Filters at the Water Treatment Plant, will you provide a depth dimension for the concrete subfill that goes in the tanks?

Answer:

No dimension will be shown. The sub fill concrete is existing.

42. Question:

For bid item #26 Replace Filter Media in Three Filters at the Water Treatment Plant, will you provide a spec for gravel media, the Greensand Plus and the Anthracite?

Answer:

Gravel media gradation shown on Plan Sheet No. 12 of the drawing set.

Greensand Plus is a trade name and is manufactured by The Inversand Company, 226 Atlantic Avenue, PO Box 650, Clayton, NJ 08312, telephone number: 856-881-2345

#4 Anthrafilter – 0.60 to 0.80 mm

43. Question:

For bid item #26 Replace Filter Media in Three Filters at the Water Treatment Plant, can all three (3) filters be off line at the same time or do they need to be staggered to keep the plant in service?

Answer:

Only one filter can be taken off line at a time. The plant must to stay in service.

44. Question:

Is the work for Bid Item #24 the same as Bid Item #32? If not will you provide price and payment procedures for item #32?

Answer:

Gauge Repair @ Tanks has been removed from the Additive Alternates.

E. GENERAL

1. A current State of West Virginia Contractor's License is required to bid the project.
2. The West Virginia Division of Highways (WVDOH) has notified the District that there is a road widening and paving project scheduled for April 2019 along Route 10. The WVDOH has agreed to work with the District to get the waterline installed prior to commencing work on the road widening and paving project. However, if the water line is not installed prior to the commencement of the WVDOH project, the Contractor will be responsible for any roadway restoration necessary.
3. The Engineer's Estimate is approximately \$1,500,000.

If you have any questions or need any other information, please contact Davis Altizer, P.E. via email (baltizer@thethrashergroup.com) or by phone at 304-431-7800.

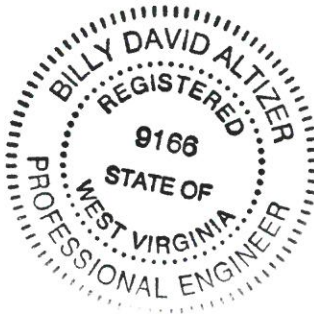
Sincerely,

THE THRASHER GROUP, INC.



David Altizer, P.E.
Project Manager

Enclosures



**RAVENCLIFF-MCGRAWS-SAULSVILLE PUBLIC SERVICE DISTRICT
WYOMING COUNTY, WEST VIRGINIA
RMS-CONTRACT # 1-NEW RICHMOND WATER LINE
BID FORM**

ARTICLE 1 – BID RECIPIENT

1.01 This Bid is submitted to:

*Ravencliff-McGraws-Saulsville Public Service District
4200 Poplar Gap Road
Glen Fork, WV 25845*

1.02 The undersigned Bidder proposes and agrees, if this Bid is accepted, to enter into an Agreement with Owner in the form included in the Bidding Documents to perform all Work as specified or indicated in the Bidding Documents for the prices and within the times indicated in this Bid and in accordance with the other terms and conditions of the Bidding Documents.

ARTICLE 2 – BIDDER’S ACKNOWLEDGEMENTS

2.01 Bidder accepts all of the terms and conditions of the Instructions to Bidders, including without limitation those dealing with the disposition of Bid security. This Bid will remain subject to acceptance for 90 days after the Bid opening, or for such longer period of time that Bidder may agree to in writing upon request of Owner.

ARTICLE 3 – BIDDER’S REPRESENTATIONS

3.01 In submitting this Bid, Bidder represents that:

A. Bidder has examined and carefully studied the Bidding Documents, and any data and reference items identified in the Bidding Documents, and hereby acknowledges receipt of the following Addenda:

Addendum No.

Addendum, Date

B. Bidder has visited the Site, conducted a thorough, alert visual examination of the Site and adjacent areas, and become familiar with and satisfied itself as to the general, local, and Site conditions that may affect cost, progress, and performance of the Work.

C. Bidder is familiar with and has satisfied itself as to all Laws and Regulations that may affect cost, progress, and performance of the Work and including all American Iron and Steel requirements and including all American Iron and Steel requirements.

D. Bidder has carefully studied all: (1) reports of explorations and tests of subsurface conditions at or adjacent to the Site and all drawings of physical conditions relating to existing surface or subsurface structures at the Site that have been identified in the Supplementary Conditions, especially with respect to Technical Data in such reports and drawings, and (2) reports and drawings relating to Hazardous Environmental Conditions, if

any, at or adjacent to the Site that have been identified in the Supplementary Conditions, especially with respect to Technical Data in such reports and drawings.

- E. Bidder has considered the information known to Bidder itself; information commonly known to contractors doing business in the locality of the Site; information and observations obtained from visits to the Site; the Bidding Documents; and any Site-related reports and drawings identified in the Bidding Documents, with respect to the effect of such information, observations, and documents on (1) the cost, progress, and performance of the Work; (2) the means, methods, techniques, sequences, and procedures of construction to be employed by Bidder; and (3) Bidder's safety precautions and programs.
- F. Bidder agrees, based on the information and observations referred to in the preceding paragraph, that no further examinations, investigations, explorations, tests, studies, or data are necessary for the determination of this Bid for performance of the Work at the price bid and within the times required, and in accordance with the other terms and conditions of the Bidding Documents.
- G. Bidder is aware of the general nature of work to be performed by Owner and others at the Site that relates to the Work as indicated in the Bidding Documents.
- H. Bidder has given Engineer written notice of all conflicts, errors, ambiguities, or discrepancies that Bidder has discovered in the Bidding Documents, and confirms that the written resolution thereof by Engineer is acceptable to Bidder.
- I. The Bidding Documents are generally sufficient to indicate and convey understanding of all terms and conditions for the performance and furnishing of the Work.
- J. The submission of this Bid constitutes an incontrovertible representation by Bidder that Bidder has complied with every requirement of this Article, and that without exception the Bid and all prices in the Bid are premised upon performing and furnishing the Work required by the Bidding Documents.

ARTICLE 4 – BIDDER'S CERTIFICATION

4.01 Bidder certifies that:

- A. This Bid is genuine and not made in the interest of or on behalf of any undisclosed individual or entity and is not submitted in conformity with any collusive agreement or rules of any group, association, organization, or corporation;
- B. Bidder has not directly or indirectly induced or solicited any other Bidder to submit a false or sham Bid;
- C. Bidder has not solicited or induced any individual or entity to refrain from bidding; and
- D. Bidder has not engaged in corrupt, fraudulent, collusive, or coercive practices in competing for the Contract. For the purposes of this Paragraph 4.01.D:
 - 1. "corrupt practice" means the offering, giving, receiving, or soliciting of any thing of value likely to influence the action of a public official in the bidding process;
 - 2. "fraudulent practice" means an intentional misrepresentation of facts made (a) to influence the bidding process to the detriment of Owner, (b) to establish bid prices at artificial non-competitive levels, or (c) to deprive Owner of the benefits of free and open competition;

3. "collusive practice" means a scheme or arrangement between two or more Bidders, with or without the knowledge of Owner, a purpose of which is to establish bid prices at artificial, non-competitive levels; and
4. "coercive practice" means harming or threatening to harm, directly or indirectly, persons or their property to influence their participation in the bidding process or affect the execution of the Contract.

ARTICLE 5 – BASIS OF BID

5.01 Bidder will complete the Work in accordance with the Contract Documents for the following price(s):

**RMS – CONTRACT # 1-NEW RICHMOND WATER LINE
FOR THE
RAVENCLIFF-MCGRAWS-SAULSVILLE PUBLIC SERVICE DISTRICT
WYOMING COUNTY, WEST VIRGINIA
BID SCHEDULE**

NOTE: BIDS shall include sales tax and all other applicable taxes and fees.

Item	Quantity	Description with Unit Price Written	Unit Price	Total Price
1	1 LS	Mobilization/Demobilization		
		_____ Dollars		
		_____ Cents	_____	_____
2	1 LS	Video Taping of Project Area		
		_____ Dollars		
		_____ Cents	_____	_____
3	1 LS	Erosion and Sediment Control		
		_____ Dollars		
		_____ Cents	_____	_____
4	6,400 LF	8" PVC Water Line		
		_____ Dollars		
		_____ Cents	_____	_____

5	80 LF	8" DIP Water Line	_____ Dollars	_____ Cents	_____
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6	8,600 LF	6" PVC Water Line	_____ Dollars	_____ Cents	_____
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7	40 LF	6" DIP Water Line	_____ Dollars	_____ Cents	_____
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8	5,000 LF	2" PVC Water Line	_____ Dollars	_____ Cents	_____
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9	4 EA	8" M.J. Gate Valves	_____ Dollars	_____ Cents	_____
<hr/>					
10	8 EA	6" M.J. Gate Valves	_____ Dollars	_____ Cents	_____
<hr/>					
11	10 EA	2" M.J. Gate Valves	_____ Dollars	_____ Cents	_____
<hr/>					
12	3 EA	6" Cut and Cap Water Line	_____ Dollars	_____ Cents	_____
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13	180 LF	12" Steel Casing (Bore and Jack)	_____ Dollars	_____ Cents	_____	_____
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14	40 LF	12" Steel Casing (Open Cut)	_____ Dollars	_____ Cents	_____	_____
<hr/>						
15	70 LF	4" Steel Casing (Bore and Jack)	_____ Dollars	_____ Cents	_____	_____
<hr/>						
16	770 LF	2" PVC Casing (Bore and Jack)	_____ Dollars	_____ Cents	_____	_____
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17	1 EA	1" Air Release Valve	_____ Dollars	_____ Cents	_____	_____
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18	820 LF	1" PE Service Tubing (Open Cut)	_____ Dollars	_____ Cents	_____	_____
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19	3,000 LF	3/4" PE Service Tubing (Open Cut)	_____ Dollars	_____ Cents	_____	_____
<hr/>						
20	800 LF	3/4" PE Service Tubing (Bore and Jack)	_____ Dollars	_____ Cents	_____	_____
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21	101 EA	Water Meter Assembly	_____ Dollars	_____ Cents	_____
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22	101 EA	Reconnection of Existing Services	_____ Dollars	_____ Cents	_____
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23	5 EA	Fire Hydrant Assembly, Complete	_____ Dollars	_____ Cents	_____
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24	12 EA	2" Blow-Off Assembly, Complete	_____ Dollars	_____ Cents	_____
<hr/>					
25	1 LS	Master Meter Vault and Assembly, Complete	_____ Dollars	_____ Cents	_____
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26	3 EA	6" Valve Insertion	_____ Dollars	_____ Cents	_____
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27	3 EA	Tie-Into Existing Water Line	_____ Dollars	_____ Cents	_____
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28	1,500 LF	Asphalt Pavement Repair	_____ Dollars	_____ Cents	_____
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29	60 LF	Concrete Sidewalk/Driveway Repair	_____ Dollars	_____ Cents	_____
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30	750 LF	Gravel Driveway/Roadway Repair	_____ Dollars	_____ Cents	_____
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31	750 LF	WVDOH Type "A" Trench Repair	_____ Dollars	_____ Cents	_____
<hr/>					
32	1 LS	Repaint Existing 161,000 Gallon McGraws Water Tank #2 (31' x 29')	_____ Dollars	_____ Cents	_____
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33	100 HR	Man-hours for Welding of Pits after Sandblasting 161,000 Gallon McGraws Water Tank #2 (31' x 29')	_____ Dollars	_____ Cents	_____
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34	300 LF	Fence at Twin Falls, Glen Fork, and Saulsville Booster Stations	_____ Dollars	_____ Cents	_____
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35	1 LS	Repair Tank Gauges at McGraws, Sabine, and Saulsville Water Tanks	_____ Dollars	_____ Cents	_____
<hr/>					
36	1 LS	Rehabilitation of Flow Control Building on Cabin Creek Road	_____ Dollars	_____ Cents	_____
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37	1 LS	Replace Filter Media in Three Filters at the Water Treatment Plant			
			_____ Dollars		
			_____ Cents	_____	_____
38	18,500 LF	WVDOH Inspection Fee Allowance			
			<u>Zero</u> Dollars		
			<u>Eighty-Seven</u> Cents	<u>\$0.87</u>	<u>\$16,095</u>

TOTAL BASE BID:

 _____ (\$ _____)

(AMOUNTS ARE TO BE SHOWN IN BOTH WORDS AND FIGURES. IN CASE OF DISCREPANCY, THE AMOUNT SHOWN IN WORDS WILL GOVERN.)

ADDITIVE ALTERNATES – VARIOUS SYSTEM COMPONENTS

NOTE: BIDS shall include sales tax and all other applicable taxes and fees.

Item	Quantity	Description with Unit Price Written	Unit Price	Total Price
39	15 EA	Radio Modem and Cables Upgrade		
		_____ Dollars		
		_____ Cents	_____	_____
40	15 EA	Radio-Read Meters		
		_____ Dollars		
		_____ Cents	_____	_____
41	1 LS	Service Pressure Pit		
		_____ Dollars		
		_____ Cents	_____	_____

42	1 LS	Replace 8" Valve at Park Intersection	_____ Dollars	_____ Cents	_____
43	1 LS	Replace 6" Valve above Cabin Creek Upper Pit	_____ Dollars	_____ Cents	_____
44	1 LS	Replace 8" Valve at Sabine Bottom	_____ Dollars	_____ Cents	_____
45	1 LS	Replace 4" Valve at Old Saulsville Road	_____ Dollars	_____ Cents	_____
46	1 LS	Replace 6" Valve above Ravencliff Intersection	_____ Dollars	_____ Cents	_____

TOTAL ADDITIVE ALTERNATE BID:

_____ (\$ _____)

(AMOUNTS ARE TO BE SHOWN IN BOTH WORDS AND FIGURES. IN CASE OF DISCREPANCY, THE AMOUNT SHOWN IN WORDS WILL GOVERN.)

DEDUCTIVE ALTERNATES – VARIOUS SYSTEM COMPONENTS

NOTE: BIDS shall include sales tax and all other applicable taxes and fees.

Item	Quantity	Description with Unit Price Written	Unit Price	Total Price
33	300 LF	Fence at Twin Falls, Glen Fork, and Saulsville Booster Stations	_____ Dollars	_____ Cents _____

34	1 LS	Repair Tank Gauges @ McGraws, Sabine, and Saulsville Tanks	_____ Dollars	_____ Cents
32	1 LS	Repaint Existing 161,000 Gallon McGraws Water Tank #2 (31'x29')	_____ Dollars	_____ Cents
33	100 HR	Man-hours for Welding of Pits after Sandblasting 161,000 Gallon McGraws Water Tank #2 (31' x 29')	_____ Dollars	_____ Cents

TOTAL DEDUCTIVE ALTERNATE BID:

_____ (\$ _____)

(AMOUNTS ARE TO BE SHOWN IN BOTH WORDS AND FIGURES. IN CASE OF DISCREPANCY, THE AMOUNT SHOWN IN WORDS WILL GOVERN.)

NOTE: THE CONTRACTORS UNIT PRICES SHALL INCLUDE PURCHASE AND INSTALLATION, COMPLETE IN PLACE, PER BID ITEM IN ACCORDANCE WITH THE DETAILED SPECIFICATIONS.

Bidder acknowledges that (1) each Bid Unit Price includes an amount considered by Bidder to be adequate to cover Contractor's overhead and profit for each separately identified item, and (2) estimated quantities are not guaranteed, and are solely for the purpose of comparison of Bids, and final payment for all unit price Bid items will be based on actual quantities, determined as provided in the Contract Documents.

METHOD OF AWARD

If at the time this contract is to be awarded, the lowest Total Base Bid submitted by a qualified, responsible Bidder does not exceed the amount of funds then estimated by the Owner, as available to finance the contract; the Additive Alternates will be added to the Base Bid to increase the construction contract cost to within the funds available. If such bids exceed such amount, the Owner may reject all bids.

If at the time this contract is to be awarded, the lowest Total Base Bid submitted by a qualified, responsible Bidder exceeds the amount of funds then estimated by the Owner, as available to finance the contract; the Deductive Alternates will be removed from the Base Bid to keep the construction contract cost within the funds available to be awarded. If such bids exceed such amount, the Owner may reject all bids.

ARTICLE 6 – TIME OF COMPLETION

- 6.01 Bidder agrees that the Work will be substantially complete and will be completed and ready for final payment in accordance with Paragraph 15.06 of the General Conditions on or before the dates or within the number of calendar days indicated in the Agreement.
- 6.02 Bidder accepts the provisions of the Agreement as to liquidated damages.

ARTICLE 7 – ATTACHMENTS TO THIS BID

- 7.01 The following documents are submitted with and made a condition of this Bid:
- A. Bid Opening Requirements
 - B. K. Manufacturers' Certification letter of compliance with Section 746 of Title VII of the Consolidated Appropriations Act of 2017 (Division A - Agriculture, Rural Development, Food and Drug Administration, and Related Agencies Appropriations Act, 2017) and subsequent statutes mandating domestic preference for all equals or substitutes approved by Addenda for American Iron and Steel products as provided in these Contract Documents.

ARTICLE 8 – DEFINED TERMS

- 8.01 The terms used in this Bid with initial capital letters have the meanings stated in the Instructions to Bidders, the General Conditions, and the Supplementary Conditions.

ARTICLE 9 – BID SUBMITTAL

BIDDER: *[Indicate correct name of bidding entity]*

By:

[Signature]

[Printed name]

(If Bidder is a corporation, a limited liability company, a partnership, or a joint venture, attach evidence of authority to sign.)

Attest:

[Signature]

[Printed name]

Title:

Submittal Date:

Address for giving notices:

Telephone Number:

Fax Number:

Contact Name and e-mail address:

Bidder's License No.:

(where applicable)

NOTE TO USER: Use in those states or other jurisdictions where applicable or required.

SECTION 012000 - PRICE AND PAYMENT PROCEDURES

PART 1 - GENERAL

1.1 SECTION INCLUDES

- A. Schedule of Values.
- B. Application for Payment.
- C. Change procedures.
- D. Defect assessment.
- E. Measurement and Payment.
- F. Alternates.

1.2 SCHEDULE OF VALUES

- A. Submit printed schedule on Progress Estimate schedule on EJCDC C-620 or contractor's standard form or electronic media printout will be considered for this use.
- B. Submit Schedule of Values in duplicate within twenty (20) days after date established in Notice to Proceed.
- C. Format: Use Table of Contents of this Project Manual. Identify each line item with number and title of major Specification Section. Also identify Site mobilization, bonds and insurance, and demobilization.
- D. Include within each line item, direct proportional amount of Contractor's overhead and profit.
- E. Revise schedule to list approved Change Orders with each Application for Payment.

1.3 APPLICATION FOR PAYMENT

- A. Submit five (5) copies of each Application for Payment on EJCDC C-620 – Contractor's Application for Payment.
- B. Content and Format: Use Schedule of Values for listing items in Application for Payment.
- C. Submit updated construction schedule and each Application for Payment.
- D. Payment Period: Submit at intervals stipulated in the Agreement.
- E. Submit submittals with transmittal letter as specified in Section 013300 - Submittal Procedures.

- F. Substantiating Data: When Engineer requires substantiating information, submit data justifying dollar amounts in question. Include the following with Application for Payment:
1. Partial release of Liens from major Subcontractors and vendors.
 2. Record Documents as specified in Section 017000 - Execution and Closeout Requirements, for review by Owner, which will be returned to Contractor.
 3. Affidavits attesting to off-Site stored products.
 4. Construction Progress Schedule, revised and current as specified in Section 013300 - Submittal Procedures.

1.4 CHANGE PROCEDURES

- A. Submittals: Submit name of individual who is authorized to receive change documents and is responsible for informing others in Contractor's employ or Subcontractors of changes to the Work.
- B. Carefully study and compare Contract Documents before proceeding with fabrication and installation of Work. Promptly advise Engineer of any error, inconsistency, omission, or apparent discrepancy.
- C. Requests for Interpretation (RFI) and Clarifications: Allot time in construction scheduling for liaison with Engineer; establish procedures for handling queries and clarifications.
1. Use Request for Information Form for requesting interpretations (provided by Engineer upon request).
 2. Engineer may respond with a direct answer on the Request for Information form, separate Engineer Response, EJCDC C-942 - Field Order, or EJCDC C-940 - Work Change Directive Form.
- D. Engineer will advise of minor changes in the Work not involving adjustment to Contract Sum/Price or Contract Time by issuing supplemental instructions on EJCDC C-942.
- E. Engineer may issue Notice of Change including a detailed description of proposed change with supplementary or revised Drawings and Specifications, a change in Contract Time for executing the change with stipulation of overtime Work required and with the period of time during which the requested price will be considered valid. Contractor will prepare and submit estimate within ten (10) days.
- F. Contractor may propose changes by submitting a request for change to Engineer, describing proposed change and its full effect on the Work. Include a statement describing reason for the change and the effect on Contract Sum/Price and Contract Time with full documentation and a statement describing effect on the Work by separate or other Contractors.
- G. Unit Price Change Order: For Contract unit prices and quantities, the Change Order will be executed on a fixed unit price basis. For unit costs or quantities of units of that which are not predetermined, execute Work under Work Directive Change. Changes in Contract Sum/Price or Contract Time will be computed as specified for Time and Material Change Order.

- H. Work Change Directive: Engineer may issue directive, on EJCDC C-940 - Work Change Directive, instructing Contractor to proceed with change in the Work, for subsequent inclusion in a Change Order. Document will describe changes in the Work and designate method of determining any change in Contract Sum/Price or Contract Time. Promptly execute change.
- I. Time and Material Change Order: Submit itemized account and supporting data after completion of change, within time limits indicated in Conditions of the Contract. Engineer will determine change allowable in Contract Sum/Price and Contract Time as provided in Contract Documents.
- J. Maintain detailed records of Work done on time and material basis. Provide full information required for evaluation of proposed changes and to substantiate costs for changes in the Work.
- K. Document each quotation for change in Project Cost or Time with sufficient data to allow evaluation of quotation.
- L. Change Order Forms: EJCDC C-941 - Change Order.
- M. Execution of Change Orders: Engineer will issue Change Orders for signatures of parties as provided in Conditions of the Contract.
- N. Correlation of Contractor Submittals:
 - 1. Promptly revise Schedule of Values and Application for Payment forms to record each authorized Change Order as separate line item and adjust Contract Sum/Price.
 - 2. Promptly revise Progress Schedules to reflect change in Contract Time, revise sub-schedules to adjust times for other items of Work affected by the change, and resubmit.
 - 3. Promptly enter changes in Record Documents.

1.5 DEFECT ASSESSMENT

- A. Replace the Work, or portions of the Work, not conforming to specified requirements.
- B. If, in the opinion of Engineer or Owner, it is not practical to remove and replace the Work, Engineer or Owner will direct appropriate remedy or adjust payment.
- C. The defective Work may remain, but unit sum/price will be adjusted to new sum/price at discretion of Owner.
- D. Defective Work will be partially repaired according to instructions of Engineer, and unit sum/price will be adjusted to new sum/price at discretion of Owner.
- E. Individual Specification Sections may modify these options or may identify specific formula or percentage sum/price reduction.
- F. Authority of Owner to assess defects and identify payment adjustments is final.
- G. Nonpayment for Rejected Products: Payment will not be made for rejected products for any of the following reasons:

1. Products wasted or disposed of in a manner that is not acceptable.
2. Products determined as unacceptable before or after placement.
3. Products not completely unloaded from transporting vehicle.
4. Products placed beyond lines and levels of the required Work.
5. Products remaining on hand after completion of the Work.

1.6 MEASUREMENT AND PAYMENT

A. General Requirements:

1. Contractor shall take measurements and compute quantities. Engineer will verify measurements and quantities.
2. Unit Quantities: Quantities and measurements indicated on Bid Form are for Contract purposes only. Actual quantities provided shall determine payment.
 - a. When actual Work requires more or fewer quantities than those quantities indicated, provide required quantities at contracted unit sum/prices.
 - b. When actual Work requires 25 percent or greater change in quantity than those quantities indicated, Owner or Contractor may claim a Contract Price adjustment.
3. Payment Includes: Full compensation for required labor, products, tools, equipment, plant and facilities, transportation, services and incidentals; erection, application, or installation of item of the Work; overhead and profit.
4. Final payment for Work governed by unit prices will be made on basis of actual measurements and quantities accepted by Engineer multiplied by unit sum/price for Work incorporated in or made necessary by the Work.

B. Measurement of Quantities:

1. Measurement by Area: Measured by square dimension using mean length and width or radius.
2. Linear Measurement: Measured by linear dimension, at item centerline or mean chord.
3. Lump Sum Measurement: Items measured by weight, volume, area, linear means, or a combination thereof, as appropriate, for completed item of the Work.

C. Unit Price Schedule:

1. Bid Item 1 – Mobilization/Demobilization
 - a. This Bid item shall include all costs associated with the performance of construction preparatory operations including, but not limited to, the movement of equipment and personnel to and from the Project Site; establishing and decommissioning the Field Office, storage buildings, and other facilities necessary to conduct Work under this Contract; payment of all bonding costs incurred by the Contractor; all materials and equipment required for unloading and reloading; and all costs associated with demobilization.
 - b. This Bid Item shall also include all costs associated with installing, maintaining, and removing the Project Sign.
 - c. This Bid Item shall also include any and all costs associated with the following Specification Sections:

- 1) Section 012600 – Contract Modification Procedures
 - 2) Section 013000 – Administrative Requirements
 - 3) Section 013216 – Construction Progress Schedule
 - 4) Section 013300 – Submittal Procedures
 - 5) Section 015000 – Temporary Facilities and Controls
 - 6) Section 017000 – Execution and Closeout Requirements
 - 7) Section 017839 – Project Record Documents
- d. Payment shall be made at the lump sum (LS) price Bid for Mobilization/Demobilization, but in no case shall the total lump sum Bid Price exceed 5% of the total Bid.
- e. Partial Payments of the lump sum Bid amount for mobilization/demobilization shall be as follows:
 - 1) One-fourth (1/4) of the amount Bid for Mobilization/Demobilization can be paid to the Contractor at the first estimate payable.
 - 2) The second one-fourth (1/4) of the amount Bid for Mobilization/Demobilization can be paid with the second estimate payable.
 - 3) The third one-fourth (1/4) of the amount Bid for Mobilization/Demobilization can be paid with the third estimate payable.
 - 4) The final one-fourth (1/4) of the amount Bid for Mobilization/Demobilization shall be paid with the final payment.
 - 5) No reduction, nor increase, will be made in the lump sum amount regardless of decreases or increases in the final total Contract amount or for any other cause.
2. Bid Item 2 –Video Taping of Project Area
 - a. This Bid Item shall include any and all costs associated with following Specification Section 020100 – Video Recording
 - b. The cost of this work shall be included in a lump sum bid item. Such payment shall constitute full compensation for labor, materials, equipment and other cost associated to provide a complete documentation.
 - c. Videotaping shall include the entire construction area affected, including any Contractor secured waste site and material storage or staging areas. The measurement for this bid items shall be based on a complete video recording on a DVD of the entire project area.
3. Bid Item 3 – Erosion and Sediment Control
 - a. The cost of this work shall be included in a lump sum bid item. Such payment shall constitute full compensation for labor, materials, equipment and other associated costs to provide a complete installation and maintenance of erosion and sediment control measures.
 - b. This Bid Item shall also include any and all costs associated with the following Specification Sections:
 - 1) Section 312500 – Erosion and Sedimentation Controls
 - 2) Section 329119 – Landscaping

- c. Erosion and Sediment Control shall include the entire construction area affected, as required, including any Contractor secured waste site and material storage or staging areas.
- 4. Bid Item 4 – 8” PVC Waterline
 - a. This Bid item shall include all required labor, materials, equipment and all other costs associated with the installation of the 8-inch PVC C900 DR18 waterline including excavation, bedding, backfill, materials, ductile iron fittings, pipe joints, concrete thrust blocks, pipe, tools, supplies, cleaning and disinfection, testing, seeding and mulching, pipe identification markers, and all other incidentals. All fittings used shall be included in the linear foot price of the pipe. All temporary fittings (i.e. plugs) required for sequencing the work shall be included in the linear foot price of the pipe.
 - b. The water line installed under this item shall be based on Schedule of Values, measured and paid for by the linear feet of pipe for each of the types and sizes as specified on Plans or as directed by the Engineer, and installed complete in place. The measurement under this item shall be the length of the various sizes and classes of pipe and fittings as installed in place and accepted and shall be measured in the horizontal plane along the centerline of each pipe installed, measured centerline of tie-in to centerline of tie-in.
- 5. Bid Item 5 – 8” DIP Waterline
 - a. This Bid item shall include all required labor, materials, equipment and all other costs associated with the installation of the 8-inch DIP CL250 waterline including excavation, bedding, backfill, materials, ductile iron fittings, pipe joints, concrete thrust blocks, pipe, tools, supplies, cleaning and disinfection, testing, seeding and mulching, pipe identification markers, and all other incidentals. All fittings used shall be included in the linear foot price of the pipe. All temporary fittings (i.e. plugs) required for sequencing the work shall be included in the linear foot price of the pipe.
 - b. The water line installed under this item shall be based on Schedule of Values, measured and paid for by the linear feet of pipe for each of the types and sizes as specified on Plans or as directed by the Engineer, and installed complete in place. The measurement under this item shall be the length of the various sizes and classes of pipe and fittings as installed in place and accepted and shall be measured in the horizontal plane along the centerline of each pipe installed, measured centerline of tie-in to centerline of tie-in.
- 6. Bid Item 6 – 6” PVC Waterline
 - a. This Bid item shall include all required labor, materials, equipment and all other costs associated with the installation of the 6-inch PVC C900 DR18 waterline including excavation, bedding, backfill, materials, ductile iron fittings, pipe joints, concrete thrust blocks, pipe, tools, supplies, cleaning and disinfection, testing, seeding and mulching, pipe identification markers, and all other incidentals. All fittings used shall be included in the linear foot price of the pipe. All temporary fittings (i.e. plugs) required for sequencing the work shall be included in the linear foot price of the pipe.

- b. The water line installed under this item shall be based on Schedule of Values, measured and paid for by the linear feet of pipe for each of the types and sizes as specified on Plans or as directed by the Engineer, and installed complete in place. The measurement under this item shall be the length of the various sizes and classes of pipe and fittings as installed in place and accepted and shall be measured in the horizontal plane along the centerline of each pipe installed, measured centerline of tie-in to centerline of tie-in.
- 7. Bid Item 7 – 6” DIP Waterline
 - a. This Bid item shall include all required labor, materials, equipment and all other costs associated with the installation of the 6-inch DIP CL250 waterline including excavation, bedding, backfill, materials, ductile iron fittings, pipe joints, concrete thrust blocks, pipe, tools, supplies, cleaning and disinfection, testing, seeding and mulching, pipe identification markers, and all other incidentals. All fittings used shall be included in the linear foot price of the pipe. All temporary fittings (i.e. plugs) required for sequencing the work shall be included in the linear foot price of the pipe.
 - b. The water line installed under this item shall be based on Schedule of Values, measured and paid for by the linear feet of pipe for each of the types and sizes as specified on Plans or as directed by the Engineer, and installed complete in place. The measurement under this item shall be the length of the various sizes and classes of pipe and fittings as installed in place and accepted and shall be measured in the horizontal plane along the centerline of each pipe installed, measured centerline of tie-in to centerline of tie-in.
- 8. Bid Item 8 – 2” PVC Waterline
 - a. This Bid item shall include all required labor, materials, equipment and all other costs associated with the installation of the 2-inch C-900 DR 17 waterline including excavation, bedding, backfill, materials, ductile iron fittings, pipe joints, concrete thrust blocks, pipe, tools, supplies, cleaning and disinfection, testing, seeding and mulching, pipe identification markers, and all other incidentals. All fittings used shall be included in the linear foot price of the pipe. All temporary fittings (i.e. plugs) required for sequencing the work shall be included in the linear foot price of the pipe.
 - b. The water line installed under this item shall be based on Schedule of Values, measured and paid for by the linear feet of pipe for each of the types and sizes as specified on Plans or as directed by the Engineer, and installed complete in place. The measurement under this item shall be the length of the various sizes and classes of pipe and fittings as installed in place and accepted and shall be measured in the horizontal plane along the centerline of each pipe installed, measured centerline of tie-in to centerline of tie-in.
- 9. Bid Item 9 – 8” M.J. Gate Valve
 - a. This Bid item shall include all required labor, materials, equipment and all other costs associated with the installation of the 8-inch gate valve including excavation, bedding, backfill, valve box, and testing.
 - b. Payment shall be based on per each Bid Price and shall be paid based on the reviewed Schedule of Values.

10. Bid Item 10 – 6” M.J. Gate Valve

- a. This Bid item shall include all required labor, materials, equipment and all other costs associated with the installation of the 6-inch gate valve including excavation, bedding, backfill, valve box, and testing.
- b. Payment shall be based on per each Bid Price and shall be paid based on the reviewed Schedule of Values.

11. Bid Item 11 – 2” M.J. Gate Valve

- a. This Bid item shall include all required labor, materials, equipment and all other costs associated with the installation of the 2-inch gate valve including excavation, bedding, backfill, valve box, and testing.
- b. Payment shall be based on per each Bid Price and shall be paid based on the reviewed Schedule of Values.

12. Bid Item 12 – 6” Cut and Cap Water Line

- a. This Bid item shall include all required labor, materials, equipment and all other costs associated with the installation of the 6” M.J. Cap including excavation, cutting of existing pipe, bedding, backfill, valve box, and testing.
- b. Payment shall be based on per each Bid Price and shall be paid based on the reviewed Schedule of Values.

13. Bid Item 13 – 12” Steel Casing (Bore & Jack)

- a. This Bid item shall include all labor and material necessary for, and incidental to, the construction of the crossing, complete in place, including, but not limited to, excavation, sheeting, bracing, backfilling, grouting, casing seal, blocking, etc.
- b. Measurement and payment under this item shall be measured and paid for at the unit price Bid per linear foot of the overall length of the casing pipe satisfactorily installed.
- c. Payment shall be for casing pipe only; carrier pipe shall be paid by the unit Bid price per foot.
- d. Compensation for unauthorized casing footage beyond that which is called for in the Drawings and Specifications will not be made.

14. Bid Item 14 – 12” Steel Casing (Open Cut)

- a. This Bid item shall include all labor and material necessary for, and incidental to, the construction of the crossing, complete in place, including, but not limited to, excavation, sheeting, bracing, backfilling, grouting, casing seal, blocking, etc.
- b. Measurement and payment under this item shall be measured and paid for at the unit price Bid per linear foot of the overall length of the casing pipe satisfactorily installed.
- c. Payment shall be for casing pipe only; carrier pipe shall be paid by the unit Bid price per foot.
- d. Compensation for unauthorized casing footage beyond that which is called for in the Drawings and Specifications will not be made.

15. Bid Item 15 – 4” Steel Casing (Bore & Jack)

- a. This Bid item shall include all labor and material necessary for, and incidental to, the construction of the crossing, complete in place, including, but not limited to, excavation, sheeting, bracing, backfilling, grouting, casing seal, blocking, etc.
- b. Measurement and payment under this item shall be measured and paid for at the unit price Bid per linear foot of the overall length of the casing pipe satisfactorily installed.
- c. Payment shall be for casing pipe only; carrier pipe shall be paid by the unit Bid price per foot.
- d. Compensation for unauthorized casing footage beyond that which is called for in the Drawings and Specifications will not be made.

16. Bid Item 16 – 2” PVC Casing (Bore & Jack)

- a. This Bid item shall include all labor and material necessary for, and incidental to, the construction of the crossing, complete in place, including, but not limited to, excavation, sheeting, bracing, backfilling, grouting, casing seal, blocking, etc.
- b. Measurement and payment under this item shall be measured and paid for at the unit price Bid per linear foot of the overall length of the casing pipe satisfactorily installed.
- c. Payment shall be for casing pipe only; carrier pipe shall be paid by the unit Bid price per foot.
- d. Compensation for unauthorized casing footage beyond that which is called for in the Drawings and Specifications will not be made.

17. Bid Item 17 – 1” Air Release Valve

- a. Payment for this Bid Item shall include the purchase and installation of all required material to construct an air release valve as detailed on the Drawings.
- b. This Unit Bid Price shall include all required piping, valves, fittings, bedding, backfilling, restoration, cleanup, etc.

18. Bid Item 18 – 1” PE Service Tubing (Open Cut)

- a. This Bid item shall include all required labor, materials, equipment and all other costs associated with the installation of the 1” PE service tubing via open cut including excavation, bedding, backfill, materials, fittings, tools, supplies, cleaning and disinfection, testing, and all other incidentals. All fittings used shall be included in the linear foot price of the pipe.
- b. The waterline installed under this item shall be based on Schedule of Values, measured and paid for by the linear feet of pipe for each of the types and sizes as specified on Plans or as directed by the Engineer, and installed complete in place. The measurement under this item shall be the length of the various sizes and classes of pipe and fittings as installed in place and accepted and shall be measured in the horizontal plane along the centerline of each pipe installed, measured centerline of tie in-to centerline of tie-in.

19. Bid Item 19 – 3/4” PE Service Tubing (Open Cut)

- a. This Bid item shall include all required labor, materials, equipment and all other costs associated with the installation of the 3/4” PE service tubing via open cut including excavation, bedding, backfill, materials, fittings, tools, supplies, cleaning and disinfection, testing, and all other incidentals. All fittings used shall be included in the linear foot price of the pipe.
- b. The waterline installed under this item shall be based on Schedule of Values, measured and paid for by the linear feet of pipe for each of the types and sizes as specified on Plans or as directed by the Engineer, and installed complete in place. The measurement under this item shall be the length of the various sizes and classes of pipe and fittings as installed in place and accepted and shall be measured in the horizontal plane along the centerline of each pipe installed, measured centerline of tie in-to centerline of tie-in.

20. Bid Item 20 – 3/4” PE Service Tubing (Bore and Jack)

- a. This Bid item shall include all required labor, materials, equipment and all other costs associated with the installation of the 3/4” PE service tubing via bore and jack including excavation, bedding, backfill, materials, fittings, tools, supplies, cleaning and disinfection, testing, and all other incidentals. All fittings used shall be included in the linear foot price of the pipe.
- b. The waterline installed under this item shall be based on Schedule of Values, measured and paid for by the linear feet of pipe for each of the types and sizes as specified on Plans or as directed by the Engineer, and installed complete in place. The measurement under this item shall be the length of the various sizes and classes of pipe and fittings as installed in place and accepted and shall be measured in the horizontal plane along the centerline of each pipe installed, measured centerline of tie-in to centerline of tie-in.

21. Bid Item 21 –Water Meter Assembly

- a. The cost of this work shall be based on each Bid Price.
- b. Such payment shall constitute full compensation for the 5/8” x 3/4” high pressure radio read water meter and labor and installation of meter assembly.
- c. Water meter setting shall include the purchase and installation of the meter, well, lid, copper setter, corporation stop and saddle. Meter settings shall include one (1) cubic foot of clean crusher run stone in bottom of meter wells and one (1) cubic foot of crusher run around the corporation stop and saddle area.

22. Bid Item 22 – Reconnect Existing Customers

- a. The Contractor’s Unit Bid Price for reconnecting existing customers shall include the purchase and installation of all required materials to perform the reconnection as shown. This Unit Bid Price shall include all necessary equipment and materials to complete the reconnection of existing customers, removal of the existing water meter and pit, delivery of the removed existing equipment to the owner, and reclamation of the disturbed areas.

23. Bid Item 23 – Fire Hydrant Assembly, Complete

- a. The Contractor's Unit Bid Price for fire hydrant assembly shall include the purchase and installation of the fire hydrant, 6" gate valve, 6" hydrant tee, all thread rods, valve riser box, and all appurtenances as shown on the details of the plans.

24. Bid Item 24 – 2" Blow-Off Assembly, Complete

- a. The Contractor's Unit Bid Price shall include the purchase and installation of the 2" hidden flushing hydrant, 2" gate valve, mechanical joint reducer (if needed), and up to a 10' length of 2" waterline between the 2" gate valve and flushing hydrant as shown in the details of the plans.

25. Bid Item 25 – Master Meter Vault and Assembly, Complete

- a. The Contractor's Unit Bid Price shall include the purchase and installation of the 2" radio read master meter, 4" pressure sustaining valve, two (2) 2-inch flanged gate valves, two (2) 6-in M.J. gate valves, various sizes of ductile iron pipe, various fittings, and concrete valve vault as shown in the details of the plans.

26. Bid Item 26 – 6" Valve Insertion

- a. The Contractor's Unit Bid Price for a 6" Valve Insertion, complete shall include the purchase and installation of all required material in order to perform the valve insertion as shown. This Unit Bid Price shall include a 6" gate valve, the required ductile iron mechanical joint fittings, and the necessary ductile iron solid sleeve(s) or dresser couplings(s).
- b. Payment shall be based on per each Bid Price.

27. Bid Item 27 – Tie-Into Existing Waterline

- a. The Contractor's Unit Bid Price for water line tie-in, complete shall include the purchase and installation of all required materials to perform the tie-in as shown. This Unit Bid Price shall include a gate valve sized the same as the new waterline, the required ductile iron mechanical joint fittings, and the necessary ductile iron solid sleeve(s) or dresser couplings(s).
- b. Payment shall be based on per each Bid Price.

28. Bid Item 28 – Asphalt Pavement Repair

- a. This Bid item shall include all required labor, materials, equipment and all other costs associated with asphalt restoration. All costs required for traffic control shall be included in the unit price. Repair shall be paid for by the linear foot, without regard to width, times the Bid price. No payment shall be made for repair outside the limits shown on the Contract Documents. No payment will be made for temporary paving required during construction. All restoration repair Work shall be included in this linear foot Bid Price.
- b. Payment shall be based on horizontal linear footage of restoration as determined by the Contractor and confirmed by the Engineer. The Engineer has final authority for measured quantity.

29. Bid Item 29 – Concrete Sidewalk/Driveway Repair

- a. This Bid item shall include all required labor, materials, equipment and all other costs associated with concrete restoration. All costs required for traffic control shall be included in the unit price. Repair shall be paid for by the linear foot, without regard to width, times the Bid price. No payment shall be made for repair outside the limits shown on the Contract Documents. No payment will be made for temporary paving required during construction. All restoration repair Work shall be included in this linear foot Bid Price.
- b. Payment shall be based on horizontal linear footage of restoration as determined by the Contractor and confirmed by the Engineer. The Engineer has final authority for measured quantity.

30. Bid Item 30 – Gravel Driveway/Roadway Repair

- a. This Bid item shall include all required labor, materials, equipment and all other costs associated with gravel restoration. All costs required for traffic control shall be included in the unit price. Repair shall be paid for by the linear foot, without regard to width, times the Bid price. No payment shall be made for repair outside the limits shown on the Contract Documents. No payment will be made for temporary paving required during construction. All restoration repair Work shall be included in this linear foot Bid Price.
- b. Payment shall be based on horizontal linear footage of restoration as determined by the Contractor and confirmed by the Engineer. The Engineer has final authority for measured quantity.

31. Bid Item 31 – WVDOT Type “A” Trench Repair

- a. This Bid item shall include all required labor, materials, equipment and all other costs associated with asphalt restoration. All costs required for traffic control shall be included in the unit price. Repair shall be paid for by the linear foot, without regard to width, times the Bid price. No payment shall be made for repair outside the limits shown on the Contract Documents. No payment will be made for temporary paving required during construction. All restoration repair Work shall be included in this linear foot Bid Price.
- b. Payment shall be based on horizontal linear footage of restoration as determined by the Contractor and confirmed by the Engineer. The Engineer has final authority for measured quantity.

32. Bid Item 32 – Repaint Existing 161,000 Gallon McGraws Water Tank #2 (31’x29’)

- a. This Bid item shall include all labor, equipment, and material necessary for, and incidental to, the repainting of the interior and exterior of the McGraws Water Tank #2, complete in place, including, but not limited to, sand blasting, welding, painting, blasting containment and ventilation, disposal of blasting materials, etc.
- b. The cost of this work shall be included in a lump sum bid item. Such payment shall constitute full compensation for labor, materials, equipment and other cost associated with repainting the McGraws Water Tank #2.
- c. Payment shall be based on lump sum and shall be paid based on the reviewed Schedule of Values.

33. Bid Item 33 – Man-hours for Welding of Pits after Sandblasting 161,000 Gallon McGraws Water Tank #2 (31' x 29')
- a. This Bid item shall include all required labor, materials, equipment and all other costs associated with Welding of Pits after Sandblasting 161,000 Gallon McGraws Water Tank #2.
 - b. Payment shall be based on hourly basis as determined by the Contractor and confirmed by the Engineer. The Engineer has final authority for measured quantity.
34. Bid Item 34 – Fence at Twin Falls, Glen Fork, and Saulsville Booster Stations
- a. This Bid item shall include all labor, equipment, and material necessary for, and incidental to, the installation of fence and gates at Twin Falls, Glen Fork, and Saulsville Water Tanks, complete in place, including, but not limited to, excavation, post, concrete, chain-link fence, tools, supplies, etc.
 - b. Measurement and payment under this item shall be measured and paid for at the unit price Bid per linear foot of the overall length of the fence and gate satisfactorily installed.
 - c. Compensation for unauthorized fencing footage beyond that which is called for in the Drawings and Specifications will not be allowed.
35. Bid Item 35 – Repair Tank Gauges at McGraws, Sabine, and Saulsville Water Tanks
- a. This Bid item shall include all labor, equipment, and material necessary for, and incidental to, the repairing the tank gauges at McGraws, Sabine, and Saulsville Water Tanks, complete in place, including, but not limited to, replacement of tank gauge, replacement of any appurtenances necessary for the gauges to operate properly, etc.
 - b. The cost of this work shall be included in a lump sum bid item. Such payment shall constitute full compensation for labor, materials, equipment and other cost associated with repairing the tank gauges at the McGraws Water Tank, Sabine Water Tanks, and Saulsville Water Tanks.
 - c. Payment shall be based on lump sum and shall be paid based on the reviewed Schedule of Values.
36. Bid Item 36 – Rehabilitation of Flow Control Building on Cabin Creek Road
- a. This Bid item shall include all labor, equipment, and material necessary for, and incidental to, the rehabilitation of the Flow Control Building on Cabin Creek Road, complete in place, including, but not limited to, replacement of valve, replacement of entry door and locks, replacement of ductile iron spool pieces, replacement of pressure gauges, electrical, etc.
 - b. The cost of this work shall be included in a lump sum bid item. Such payment shall constitute full compensation for labor, materials, equipment and other cost associated with the rehabilitation of the Flow Control Building on Cabin Creek Road.
 - c. Payment shall be based on lump sum and shall be paid based on the reviewed Schedule of Values.

37. Bid Item 37 – Replace Filter Media in Three Filters at the Water Treatment Plant

- a. This Bid item shall include all labor, equipment, and material necessary for, and incidental to, the replacing the filter media of three filters at the Water Treatment Plant, complete in place, including, but not limited to, removal of old media, cleaning of filters, installation of new media at proper depths, etc.
- b. The cost of this work shall be included in a lump sum bid item. Such payment shall constitute full compensation for labor, materials, equipment and other cost associated with the replacement of the filter media in three filters at the Water Plant.
- c. Payment shall be based on lump sum and shall be paid based on the reviewed Schedule of Values.

38. Bid Item 38 – WVDOH Permit Fee Allowance

- a. This bid item is to include all cost associated with the inspection and permit fee required by the West Virginia Division of Highways for the project. The allowance amount is Sixteen Thousand Ninety-Five Dollars (\$16,095.00).
- b. The costs associated with this allowance shall be in accordance with General Conditions Article 13. The Sixteen Thousand Ninety-Five Dollars (\$16,095.00) allowance shall be based on the per linear foot cost of the water line installed in the WVDOH right-of-way to cover all WVDOH inspection costs and WVDOH permit cost. This bid item specifically excludes any work shown on the contract documents. All work within the Contract Documents shall be included in previous bid items.

39. Bid Item 39 – Radio Modem and Cables Upgrade - (Additive Alternate)

- a. This Bid item shall include all labor, equipment, and material necessary for, and incidental to, the replacement of radio modem and cable upgrades at various locations throughout the water system, complete in place, including, but not limited to, the radio modems, antenna cables, and all necessary appurtenances.
- b. Payment shall be based on per each Bid Price.

40. Bid Item 40 – Radio-Read Meters - (Additive Alternate)

- a. This Bid item shall include all equipment, and material, including, but not limited to, the radio-read water meters, antenna replacement, and all necessary appurtenances.
- b. Payment shall be based on per each Bid Price.

41. Bid Item 41 – Service Pressure Pit - (Additive Alternate)

- a. This Bid item shall include all labor, equipment, and material necessary for, and incidental to, the replacement of a 6” pressure reducing & pressure sustaining valve and the replacement of a 2” pressure reducing valve in the existing Cabin Creek PRV Station #1, complete in place, including, but not limited to, pressure reducing valves, fittings, spool pieces, and all necessary appurtenances.
- b. The cost of this work shall be included in a lump sum bid item. Such payment shall constitute full compensation for labor, materials, equipment and other cost associated with the installation of the valves in the Cabin Creek PRV Station #1.

Payment shall be based on lump sum and shall be paid based on the reviewed Schedule of Values

42. Bid Item 42 – Replace 8” Valve at Park Intersection - (Additive Alternate)
- a. This Bid item shall include all labor, equipment, and material necessary for, and incidental to, the installation of an 8” insertion gate valve at the Park Intersection, complete in place, including, but not limited to, gate valve, excavation, site reclamation, etc.
 - b. The cost of this work shall be included in a lump sum bid item. Such payment shall constitute full compensation for labor, materials, equipment and other cost associated with the installation of an 8” insertion gate valve at the Park Intersection.
 - c. Payment shall be based on lump sum and shall be paid based on the reviewed Schedule of Values
43. Bid Item 43 – Replace 6” Valve above Cabin Creek Upper Pit - (Additive Alternate)
- a. This Bid item shall include all labor, equipment, and material necessary for, and incidental to, the installation of a 6” insertion gate valve above Cabin Creek PRV Station #1, complete in place, including, but not limited to, gate valve, excavation, site reclamation, etc.
 - b. The cost of this work shall be included in a lump sum bid item. Such payment shall constitute full compensation for labor, materials, equipment and other cost associated with the installation of a 6” insertion gate valve above Cabin Creek PRV Station #1.
 - c. Payment shall be based on lump sum and shall be paid based on the reviewed Schedule of Values
44. Bid Item 44 – Replace 8” Valve at Sabine Bottom - (Additive Alternate)
- a. This Bid item shall include all labor, equipment, and material necessary for, and incidental to, the installation of an 8” insertion gate valve at Sabine Bottom, complete in place, including, but not limited to, gate valve, excavation, site reclamation, etc.
 - b. The cost of this work shall be included in a lump sum bid item. Such payment shall constitute full compensation for labor, materials, equipment and other cost associated with the installation of an 8” insertion gate valve at Sabine Bottom.
 - c. Payment shall be based on lump sum and shall be paid based on the reviewed Schedule of Values
45. Bid Item 45 – Replace 4” Valve at Old Saulsville Road - (Additive Alternate)
- a. This Bid item shall include all labor, equipment, and material necessary for, and incidental to, the installation of a 4” insertion gate valve at Old Saulsville Road, complete in place, including, but not limited to, gate valve, excavation, site reclamation, etc.
 - b. The cost of this work shall be included in a lump sum bid item. Such payment shall constitute full compensation for labor, materials, equipment and other cost associated with the installation of a 4” insertion gate valve at Old Saulsville Road.

- c. Payment shall be based on lump sum and shall be paid based on the reviewed Schedule of Values
- 46. Bid Item 46 – Replace 6” Valve above Ravencliff Intersection - (Additive Alternate)
 - a. This Bid item shall include all labor, equipment, and material necessary for, and incidental to, the installation of a 6” insertion gate valve above Ravencliff Intersection, complete in place, including, but not limited to, gate valve, excavation, site reclamation, etc.
 - b. The cost of this work shall be included in a lump sum bid item. Such payment shall constitute full compensation for labor, materials, equipment and other cost associated with the installation of a 6” insertion gate valve above Ravencliff Intersection.
 - c. Payment shall be based on lump sum and shall be paid based on the reviewed Schedule of Values

PART 2 - PRODUCTS - Not Used

PART 3 - EXECUTION - Not Used

END OF SECTION 012000