

**BERKELEY COUNTY PUBLIC SERVICE SEWER DISTRICT
BERKELEY COUNTY, WEST VIRGINIA**

**WASTEWATER SYSTEM IMPROVEMENTS
CONTRACT NO. 6 – RIVERSIDE WWTP CONSOLIDATION**

June 7, 2018

ADDENDUM NO. 1

To whom it may concern:

A. BOILER PLATE

1. Bid Form – A revised Bid Form is enclosed with this Addendum and shall be used for your Bid. The following Bid Items were added:
 - a. Item 17a - 6" or 8" (Pressure In Line) Forcemain Cleanout.
 - b. Item 17b - 3" (Pressure In Line) Forcemain Cleanout.
 - c. Item 26 – 8" PVC C909 Class 235 Stream Crossing.

B. SPECIFICATIONS

1. Section 120000 "Price and Payment Procedures". Replace in its entirety with the enclosed revised section. Revised Payment Item 17 and added Item 26.
2. Section 323113 "Chain Link Fences and Gates", Paragraph 2.1.A and B, Page 2. A professional engineer is not required. Fence framework design shall not be required to rate for 100 MPH wind speed but must be designed in accordance with ASCE/SEI 7.
3. Section 330523 "Trenchless Utility Installation", Paragraph 2.1.A, Page 4. Steel pipe for the railroad crossings shall have minimum thickness of 1.40", Grade B, and 40,000 psi minimum yield strength.
4. Section 333400 "Sanitary Utility Sewerage Force Main", Paragraph 2.2.A, Page 4. PVC pipe shall be C909 PVC Pressure Class 235 (235 psi) Ultra Blue with 50-year warranty. Fittings shall be compact, AWWA C153, ductile iron, mechanical joint with mega-style restraints. Marking tape shall be green labeled "CAUTION SEWER LINE BURIED BELOW".

C. DRAWINGS

1. Sheet Nos. 4 thru 16 – The force main pipe shall be C909 PVC Pressure Class 235 (235 psi) Ultra Blue with 50-year warranty.

2. Sheet No. 6 – A revised sheet is included with this Addendum. A Stream Crossing was added to the plan and profile
3. Sheet Nos. 18 thru 20, Note 3 – The Owner does not have the fill material available at their Baker Heights WWTP as indicated. The Contractor must find fill material from another source.
4. Sheet No. PS-11. The pump suction piping in the wet well shall be 4" DIP in lieu of 4" SCH 80 PVC. The exterior of the DIP shall be bituminous coated.
5. Sheet No. DET-3 "Pressure In Line Cleanout" Detail. Replace detail with the enclosed "Pressure In Line Cleanout for 3" and Smaller Forcemain" (Detail 2) and "Pressure In Line Cleanout for 6" and 8" Forcemain" (Detail 3).
6. Sheet No. DET-4. The enclosed Service Lateral Detail 1 shall be used.

D. QUESTIONS AND CLARIFICATIONS

The following are clarifications and responses to questions posed by Contractors and suppliers regarding the above referenced project.

1. **Question:** Blasting allowed on gravity sewer pipe.
Answer: No.
2. **Question:** Insurance required by the Contractor for the RR Crossing?
Answer: No. The Owner will also pay for the cost of required flaggers.
3. **Question:** Is the Owner going to remove the solids from the existing package treatment plant?
Answer: Yes.
4. **Question:** A carport appears to be located in the path of the proposed forcemain. Will the Owner obtain additional Easements to avoid the carport?
Answer: Yes.
5. **Question:** Does the County want to use FERNCO couplings or HARCO double bell repair couplings?
Answer: HARCO couplings.
6. **Question:** Do you desire the splash hood option for the inside drop manhole connection?

- Answer:** Yes, on forcemain pipe only.
7. **Question:** Your specs call for domestic fittings. Does that requirement extend to the restraints and valve boxes?
- Answer:** Yes.
8. **Question:** Would you entertain using HDPE butt fused joint for the forcemain?
- Answer:** No.
9. **Question:** How are you suggesting getting to the last bores and tie-in to existing manhole on the DuPont property? Is there an existing road?
- Answer:** Yes, there is an unpaved road to allow access to both the bores and existing manhole.
10. **Question:** Can we use existing soils for bedding and back fill?
- Answer:** No. #57 limestone shall be used for the "Bedding Zone", "Haunch Zone" and "Initial Backfill Zone" as indicated on Sheet No. DET-3. Suitable material from the excavation can be used in the "Final Backfill Zone".
11. **Question:** What is the structure that the generator is sitting on?
- Answer:** Elevated concrete structure as detailed on Sheet Nos. PS-5, PS-6, PS-7 and PS-9. The structure is 4'-4" x 8'-4" x 13'-8" High with 1'-6" extended base slab on all sides. The interior of the structure shall be completely backfilled with suitable material from the site excavation.
12. **Question:** Is there a spec for the gutter and downspout?
- Answer:** Gutters shall be 5.5" (top width) aluminum, Type K. Downspouts shall be 3"x4" aluminum.
13. **Question:** Is there a gauge for the metal roof and siding?
- Answer:** Roof and siding panels shall be Classic Ribbed Steel, 29 gauge, 3/4" rib height, 36" panel coverage and bell top trapezoidal rib on 9" centers. The Owner/Engineer shall select the color.

14. **Question:** Are the structural steel members on PS-5 and PS-6 for Lift Station No. 1 painted or galvanized?
- Answer:** Hot dipped galvanized.
15. **Question:** At the locations of the Pressure In Line Cleanouts, are we required to install one (1) or two (2) valve markers?
- Answer:** One (1).
16. **Question:** What type of grating is proposed? Straight bar, I-bar, T-bar or Serrated, or Grooved?
- Answer:** The grating shall be 1-1/2" x 3/16" Swaged Aluminum I-Bar SGI Series as manufactured by Ohio Gratings, Inc., or equal.
17. **Question:** Does the Contractor have the option to use directional bores at the stream crossings?
- Answer:** No.
18. **Question:** Are the stair treads – bent floor or bar grate treads with nosing? Are they painted or hot dipped galvanized?
- Answer:** The treads shall be aluminum grating as stated in Question 16.
19. **Question:** The columns say W6x25 but the note near the roof on Sheet PS-6 says W6x21, which is correct?
- Answer:** W6x25.
20. **Question:** Sheet Nos. 16 & 17 show Silt Fence but Sheet ES-2 shows two (2) different types, which one is correct?
- Answer:** Use Figure 17 Standard Filter Fabric Fence (30" High).
21. **Question:** Is there a specific manufacturer for the precast building for Pump Station No. 2?
- Answer:** The building is a fiberglass enclosure as specified in Section 333217, Paragraph 2.11, pages 27-30. The building shall be furnished by the pump manufacturer.

22. **Question:** Can we access the DuPont property before the bid date?
- Answer:** The contractor must contact the property manager to find out if they will allow you to access the site. Please contact Brian Dorsey at (304) 283-5785.
23. **Question:** Is there a detail for the stream crossing that is on Sheet 6 or any other streams that we encounter?
- Answer:** No. The pipe shall be installed 3'-6" below the stream bed and the stream bank protection shall consist of 6"-12" diameter rip rap with a minimum depth of 12".
24. **Question:** Is there any salvageable equipment that the District wants at the existing treatment plants?
- Answer:** No, unless indicated on the Drawings.
25. **Question:** Can the work hours be extended in non-residential areas-like on the DuPont property?
- Answer:** No. In order to access the DuPont property, everyone must check in at the guard shack.
26. **Question:** Is any compaction testing required and if so, who is responsible?
- Answer:** Yes, and the Contractor is required as specified in Section 312000, Paragraph 3.17, page 8. The Contractor shall perform compaction testing in all DOH ROW as directed by the DOH inspector, paved areas, road crossings and along pipe trench as directed by the Owner's Resident Project Representative. The RPR will only require initial compaction testing at the beginning of the project but may request additional testing if the materials change or the compaction methods change.
27. **Question:** Can the forcemain be air tested in lieu of hydrostatically testing?
- Answer:** No.
28. **Question:** Is this a wage rated project, and if so can you provide wage scale determination?
- Answer:** No.

29. **Question:** Are the conduits feeding the generator (Lift Station No. 1) to be installed underground, or can they be surface routed?
- Answer:** Surface routed.
30. **Question:** Are all the areas around the wet wells classified as explosion proof?
- Answer:** No.
31. **Question:** Lift Station No. 1 is supposed to have stainless steel, liquid tight, junction boxes. Are these to be explosion proof?
- Answer:** No.

E. GENERAL

1. Pre-Bid Meeting Minutes and Sign-In Sheets from the Pre-Bid Conference are enclosed herewith.
2. A project trailer will be required as stated in the Pre-Bid Meeting Minutes.
3. The Engineer's cost estimate for this project is \$2,900,000.
4. Bidders are hereby notified to acknowledge receipt of addenda in space provided on the Bid Form.

If you have any questions or need any other information please do not hesitate to contact me.

Sincerely,

THE THRASHER GROUP, INC.


JEFFERY D. EKSTROM,
Project Manager



Enclosures

BID FORM

PROPOSED

CONTRACT #6 – RIVERSIDE WWTP CONSOLIDATION

**BERKELEY PUBLIC SERVICE SEWER DISTRICT
BERKELEY COUNTY, WEST VIRGINIA**

ARTICLE 1 – BID RECIPIENT

1.01 This Bid is submitted to:

Berkeley Public Service Sewer District
65 District Way
Martinsburg, WV 25402

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, other related data identified in the Bidding Documents, and the following Addenda, receipt of which is hereby acknowledged:

Addendum No.

Addendum Date

B. Bidder has visited the Site and become familiar with and is satisfied as to the general, local, and Site conditions that may affect cost, progress, and performance of the Work.

C. Bidder is familiar with and is satisfied as to all Laws and Regulations that may affect cost, progress, and performance of the Work.

- D. Bidder has carefully studied all: (1) reports of explorations and tests of subsurface conditions at or contiguous to the Site and all drawings of physical conditions relating to existing surface or subsurface structures at the Site (except Underground Facilities) that have been identified in SC-4.02 as containing reliable "technical data," and (2) reports and drawings of Hazardous Environmental Conditions, if any, at the Site that have been identified in SC-4.06 as containing reliable "technical data."
- E. Bidder has considered the information known to Bidder; 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 the 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, including applying the specific means, methods, techniques, sequences, and procedures of construction expressly required by the Bidding Documents; and (3) Bidder's safety precautions and programs.
- F. Based on the information and observations referred to in Paragraph 3.01.E above, Bidder does not consider that further examinations, investigations, explorations, tests, studies, or data are necessary for the determination of this Bid for performance of the Work at the price(s) 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 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 of the Work for which this Bid is submitted.

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 The Bidder shall take notice of and shall be responsible for any local or state taxes levied and applicable, and the cost for the same shall be included as part of the submitted Bid.
- 5.02 The total Bid cost stated includes a complete operating installation including furnishing and installation of any and all changes or additions in plans, piping, mechanical work, additional electrical work, accessories, controls, etc. necessary to accommodate alternative equipment systems or materials used in construction.
- 5.03 The Bidder agrees to perform all required Work described in the detailed Specifications and as shown on the Plans for the complete construction and placing in satisfactory operation the 0.6 MGD Wastewater Treatment Plant Upgrades. The Project "Sequence of Construction" has been detailed in the Drawings and Specification Division 1, Project Summary, Section 1010, Part-2 Execution. The Bidder agrees to perform all the Work proposed for the total of the following Bid prices.
- 5.04 Bidder will complete the Work in accordance with the Contract Documents for the following price(s):

**PROPOSED
CONTRACT #6 – RIVERSIDE WWTP CONSOLIDATION
FOR THE
BERKELEY COUNTY PUBLIC SERVICE SEWER DISTRICT
BERKELEYCOUNTY, 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	Pre-Construction Video of Project Area		
		_____ Dollars		
		_____ Cents	_____	_____
3	1 LS	Erosion and Sediment Control		
		_____ Dollars		
		_____ Cents	_____	_____
4	3,820 LF	12" PVC SDR-35 Gravity Sewer Line		
		_____ Dollars		
		_____ Cents	_____	_____
5	260 LF	8" PVC SDR-35 Gravity Sewer Line		
		_____ Dollars		
		_____ Cents	_____	_____

Item	Quantity	Description with Unit Price Written	Unit Price	Total Price
6	140 LF	4" PVC SDR-35 Service Lateral Pipe		
		_____ Dollars		
		_____ Cents	_____	_____
7	13,392 LF	8" PVC C909 CL 235 Forcemain		
		_____ Dollars		
		_____ Cents	_____	_____
8	3,450 LF	6" PVC C909 CL 235 Forcemain		
		_____ Dollars		
		_____ Cents	_____	_____
9	2,355 LF	3" PVC SDR-21 CL-200 Forcemain		
		_____ Dollars		
		_____ Cents	_____	_____
10a	70 LF	24" Steel Casing (Bore & Jack)		
		_____ Dollars		
		_____ Cents	_____	_____
10b	450 LF	16" Steel Casing (Bore & Jack)		
		_____ Dollars		
		_____ Cents	_____	_____
11a	90 LF	16" Steel Casing (Open Cut)		
		_____ Dollars		
		_____ Cents	_____	_____

Item	Quantity	Description with Unit Price Written	Unit Price	Total Price
11b	50 LF	12" Steel Casing (Open Cut)		
		_____ Dollars		
		_____ Cents	_____	_____
11c	35 LF	6" Steel Casing (Open Cut)		
		_____ Dollars		
		_____ Cents	_____	_____
12a	18 EA	48" Diameter Manhole Base, Cone Top, Regular Casting With Standard Frame/Cover		
		_____ Dollars		
		_____ Cents	_____	_____
12b	9 EA	48" Diameter Manhole Base, Cone Top, Regular Casting With Watertight Frame/Cover		
		_____ Dollars		
		_____ Cents	_____	_____
13	30 VF	48" Diameter Manhole Riser Pipe		
		_____ Dollars		
		_____ Cents	_____	_____
14	5 EA	Interior Drop Manhole Connection		
		_____ Dollars		
		_____ Cents	_____	_____
15	10 EA	PVC Wye Connection		
		_____ Dollars		
		_____ Cents	_____	_____

Description

Item	Quantity	with Unit Price Written	Unit Price	Total Price
16	14 EA	Air Release Valve Assembly		
		_____ Dollars		
		_____ Cents	_____	_____
17a	11 EA	6" or 8" Forcemain (Pressure Inline) Cleanout		
		_____ Dollars		
		_____ Cents	_____	_____
17b	2 EA	3" Forcemain (Pressure Inline) Cleanout		
		_____ Dollars		
		_____ Cents	_____	_____
18	5 EA	Connection of New or Existing Sewer to Existing Manhole		
		_____ Dollars		
		_____ Cents	_____	_____
19	3 EA	Connection Existing Sewer to New Sewer Outside New Manhole		
		_____ Dollars		
		_____ Cents	_____	_____
20a	375 LF	WVDOH Type "B" Trench Repair		
		_____ Dollars		
		_____ Cents	_____	_____
20b	3,615 LF	WVDOH Type "C" Trench Repair		
		_____ Dollars		
		_____ Cents	_____	_____

Item	Quantity	Description with Unit Price Written	Unit Price	Total Price
21	19,300 LF	Reclamation of Disturbed Area		
		_____ Dollars		
		_____ Cents	_____	_____
22	1 LS	Marlowe #1 Pump Station		
		_____ Dollars		
		_____ Cents	_____	_____
23	1 LS	Marlowe #2 Pump Station		
		_____ Dollars		
		_____ Cents	_____	_____
24	1 LS	Marlowe #3 Pump Station		
		_____ Dollars		
		_____ Cents	_____	_____
25a	1 LS	Demolition of Existing Riverside Package WWTP		
		_____ Dollars		
		_____ Cents	_____	_____
25b	1 LS	Demolition of Existing Brookfield Package WWTP		
		_____ Dollars		
		_____ Cents	_____	_____
25c	1 LS	Demolition of Existing Broad Lane Package WWTP		
		_____ Dollars		
		_____ Cents	_____	_____

Item	Quantity	Description with Unit Price Written	Unit Price	Total Price
26	58 LF	8" PVC C909 CL 235 Stream Crossing		
		_____ Dollars		
		_____ Cents	_____	_____

TOTAL BID: _____

_____ (\$ _____)

(Amounts are to be shown in both words and figures. In case of discrepancy, the amount shown in words will govern.)

NOTE: The Contractor's Unit Prices shall include purchase and installation, complete in place, per Bid item in accordance with the detailed Specifications. Bids shall include all applicable taxes and fees.

Unit Prices have been computed in accordance with Paragraph 11.03.B of the General Conditions.

Bidder acknowledges that 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 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 construction contract will be awarded. If such bids exceed such amount, the Owner may reject all bids. The Owner may award the contract on the total bid submitted by a qualified responsible Bidder.

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 14.07 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

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

9.01 This Bid is submitted by:

If Bidder is:

An Individual

Name (typed or printed): _____

By: _____
(Individual's signature)

Doing business as: _____

A Partnership

Partnership Name: _____

By: _____
(Signature of general partner -- attach evidence of authority to sign)

Name (typed or printed): _____

A Corporation

Corporation Name: _____ (SEAL)

State of Incorporation: _____

Type (General Business, Professional, Service, Limited Liability): _____

By: _____
(Signature -- attach evidence of authority to sign)

Name (typed or printed): _____

Title: _____
(CORPORATE SEAL)

Attest _____

Date of Qualification to do business in [State where Project is located] is
____/____/____.

A Joint Venture

Name of Joint Venture: _____

First Joint Venturer Name: _____ (SEAL)

By: _____
(Signature of first joint venture partner -- attach evidence of authority to sign)

Name (typed or printed): _____

Title: _____

Second Joint Venturer Name: _____ (SEAL)

By: _____
(Signature of second joint venture partner -- attach evidence of authority to sign)

Name (typed or printed): _____

Title: _____

(Each joint venturer must sign. The manner of signing for each individual, partnership, and corporation that is a party to the joint venture should be in the manner indicated above.)

Bidder's Business Address _____

Phone No. _____ Fax No. _____

E-mail _____

SUBMITTED on _____, 20____.

State Contractor License No. _____. *[If applicable]*

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. Unit prices.
- G. 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 with each Application for Payment.
- D. Payment Period: Submit at intervals stipulated in the Agreement.
- E. Submit Application for Payment 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. Current construction photographs.
 2. Partial release of liens from major Subcontractors and vendors.
 3. Record Documents as specified in Section 017000 - Execution and Closeout Requirements, for review by Owner, which will be returned to Contractor.
 4. Affidavits attesting to off-Site stored products.
 5. 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 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. Stipulated Sum/Price Change Order: Based on Proposal Request or Work Change Directive and Contractor's maximum price quotation or Contractor's request for Change Order as approved by Engineer.
- H. 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 Change Directive. Changes in Contract Sum/Price or Contract Time will be computed as specified for Time and Material Change Order.

- I. Work Directive Change: 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.
- J. 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.
- K. 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.
- L. Document each quotation for change in Project Cost or Time with sufficient data to allow evaluation of quotation.
- M. Change Order Forms: EJCDC C-941 - Change Order.
- N. Execution of Change Orders: Engineer will issue Change Orders for signatures of parties as provided in Conditions of the Contract.
- O. 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.
6. Loading, hauling, and disposing of rejected products.

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. Weigh Scales: Inspected, tested, and certified by applicable West Virginia weights and measures department within past year.
2. Platform Scales: Of sufficient size and capacity to accommodate conveying vehicle.
3. Metering Devices: Inspected, tested, and certified by applicable West Virginia department within past year.
4. Measurement by Weight: Concrete reinforcing steel, rolled or formed steel, or other metal shapes will be measured by handbook weights. Welded assemblies will be measured by handbook or scale weight.
5. Measurement by Volume: Measured by cubic dimension using mean length, width, and height or thickness.
6. Measurement by Area: Measured by square dimension using mean length and width or radius.
7. Linear Measurement: Measured by linear dimension, at item centerline or mean chord.
8. Stipulated Sum/Price Measurement: Items measured by weight, volume, area, or linear means or combination, as appropriate, as completed item or unit 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 any and all costs associated with the following Specification Sections:
 - 1) Section 013000 – Contract Modification Procedures
 - 2) Section 013100 – 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
- c. 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 percent of the total Bid.
- d. Partial Payments of the lump sum Bid amount for mobilization/demobilization shall be as follows:
 - 1) One-fourth of the amount Bid for Mobilization/Demobilization can be paid to the Contractor at the first estimate payable.
 - 2) The second one-fourth of the amount Bid for Mobilization/Demobilization can be paid with the second estimate payable.
 - 3) The third one-fourth of the amount Bid for Mobilization/Demobilization can be paid with the third estimate payable.
 - 4) The final one-fourth of the amount Bid for Mobilization/Demobilization shall be paid with the final payment.
 - 5) No reduction will be made, nor any increase, 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 – Pre-Construction Video 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 cost associated to provide a complete installation of erosion and sediment control measures.
 - b. 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 – 12” PVC SDR-35 Gravity Sewer Line
 - a. This Bid Item shall include all required labor, materials, equipment and all other costs associated with the complete installation of 12-inch PVC SDR-35 Gravity Sewer Line including, but not limited to, excavation, bedding, backfill, materials, fittings, pipe joints, pipe, tools, supplies, testing, and incidentals. All fittings used shall be included in the linear foot price of the pipe.
 - b. The sewers installed under this item shall be measured and paid for at the unit price Bid per linear foot of pipe of each type and size as specified on Drawings or as directed by the Engineer, and installed complete in place. The measurement under this item shall be the length 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 from the face of manhole to face of manhole.
5. Bid Item 5 – 8” PVC SDR-35 Gravity Sewer Line
 - a. This Bid Item shall include all required labor, materials, equipment and all other costs associated with the complete installation of 8-inch PVC SDR-35 Gravity Sewer Line including, but not limited to, excavation, bedding, backfill, materials, fittings, pipe joints, pipe, tools, supplies, testing, and incidentals. All fittings used shall be included in the linear foot price of the pipe.
 - b. The sewers installed under this item shall be measured and paid for at the unit price Bid per linear foot of pipe of each type and size as specified on Drawings or as directed by the Engineer, and installed complete in place. The measurement under this item shall be the length 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 from the face of manhole to face of manhole.
6. Bid Item 6 – 4” PVC SDR-35 Service Lateral Pipe
 - a. The pipe installed under this item shall be measured and paid for by the linear feet of pipe installed complete in place. The measurements under this item shall be the length of pipe and fittings 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.
 - b. The quantities determined as provided above will be paid for at the unit price Bid, which shall be full compensation for excavation, bedding, backfilling, and furnishing all materials and doing all the work herein prescribed in a workmanlike and acceptable manner, including all labor, tools, equipment, supplies, testing and incidentals necessary to complete the work.
 - c. Fitting, weather used in ductile iron, PVC or HDPE, will be paid for as part of linear foot of pipe.

7. Bid Item 7 – 8” PVC C909 CL 235 Forcemain

- a. The forcemain installed under this Bid Item shall be measured and paid for by the linear feet of pipe installed complete in place. The measurement under this item shall be the length pipe and fittings 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.
- b. The quantities determined as provided above will be paid for at the unit price Bid, which shall be full compensation for excavation, bedding, and backfilling and furnishing all materials and doing all the work herein prescribed in a workmanlike and acceptable manner, including all labor, tools, equipment, supplies, testing, and incidentals necessary to complete the work.
- c. Fittings will be paid for as part of linear foot of pipe.
- d. **Marking tape, tracer wire and post dome markers (wire termination) will be paid for as part of linear foot of pipe.**
- e. **Replacement of the existing 15” RCP culvert with 12” PVC SDR 35 pipe (28 LF) as shown on Sheet No. 12 will be paid as part of linear foot of pipe).**
- f. Specific appurtenances, **including stone rip rap protection**, for force main construction have been detailed on the Drawings and will be paid for as part of linear feet of pipe.

8. Bid Item 8 – 6” PVC C909 CL 235 Forcemain

- a. The forcemain installed under this Bid Item shall be measured and paid for by the linear feet of pipe installed complete in place. The measurement under this item shall be the length pipe and fittings 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.
- b. The quantities determined as provided above will be paid for at the unit price Bid, which shall be full compensation for excavation, bedding, and backfilling and furnishing all materials and doing all the work herein prescribed in a workmanlike and acceptable manner, including all labor, tools, equipment, supplies, testing, and incidentals necessary to complete the work.
- c. Fittings will be paid for as part of linear foot of pipe.
- d. **Marking tape, tracer wire and post dome markers (wire termination) will be paid for as part of linear foot of pipe.**
- e. Specific appurtenances, **including stone rip rap protection**, for force main construction have been detailed on the Drawings and will be paid for as part of linear feet of pipe.

9. Bid Item 9 – 3” PVC SDR-21 CL-200 Forcemain

- a. The forcemain installed under this Bid Item shall be measured and paid for by the linear feet of pipe installed complete in place. The measurement under this item shall be the length pipe and fittings 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.
- b. The quantities determined as provided above will be paid for at the unit price Bid, which shall be full compensation for excavation, bedding, and backfilling and furnishing all materials and doing all the work herein prescribed in a workmanlike and acceptable manner, including all labor, tools, equipment, supplies, testing, and incidentals necessary to complete the work.

- c. Fittings, whether used in ductile, PVC or polyethylene, will be paid for as part of linear foot of pipe.
 - d. **Marking tape, tracer wire and post dome markers (wire termination) will be paid for as part of linear foot of pipe.**
 - e. Specific appurtenances, **including stone rip rap protection**, for force main construction have been detailed on the Drawings and will be paid for as part of linear feet of pipe.
10. Bid Item 10 – Steel Casing (Bore & Jack)
- a. Bid items are broken out according to the size of the casing required as shown on the Bid form and as follows: 10a – 24-inch, 10b – 16”.
 - b. 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.
 - c. 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.
 - d. Payment shall be for casing pipe only; carrier pipe shall be paid by the unit Bid price per foot.
 - e. Compensation for unauthorized casing footage beyond that which is called for in the Drawings and Specifications will not be made.
11. Bid Item 11 – Steel Casing (Open Cut)
- a. Bid items are broken out according to the size of the casing required as shown on the Bid form and as follows: 11a – 26-inch, 11b – 12”, 11c – 6”.
 - b. 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.
 - c. 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.
 - d. Payment shall be for casing pipe only; carrier pipe shall be paid by the unit Bid price per foot.
 - e. Compensation for unauthorized casing footage beyond that which is called for in the Drawings and Specifications will not be made.
12. Bid Item 12 - 48” Diameter Manhole Base, Cone Top, Regular Casting
- a. Bid items are broken out according to the type of manhole frame and cover as shown on the Bid form and as follows: 12a - Standard; and 12b - Watertight.
 - b. This Bid item shall include all required labor, materials, equipment and all other costs associated with excavation and backfill, installation of 48-inch pre-cast manhole, and other appurtenances.
 - c. Payment for manholes shall be as follows:
 - 1) Gravel sub-base, manhole base, steps, cone top, frame, and cover (water tight where indicated), up to 6-foot depth measured from invert out elevation to top of cover elevation, shall be paid at the Contract unit Bid price per each.

- 2) Manhole riser piping of specified inside diameter required for additional depth over 6 feet shall be paid for at the unit Bid price per vertical foot for Precast Manhole Riser Pipe.
 - 3) Payment for internal drop connectors, as required, for manhole construction shall be included in the unit Bid price for each new manhole installed.
13. Bid Item 13 – 48” Diameter Manhole Riser Pipe
 - a. Riser section required for depths over 6 feet will be measured and paid for by the unit Bid price per vertical foot.
 - b. Manhole base, cone top, frame and cover, complete in place to a depth of 6 feet, shall be paid for by the unit Bid price per each for Manholes.
14. Bid Item 14 – Interior Drop Manhole Connection
 - a. Payment for this work shall be per Each basis.
 - b. This Bid item shall include all required labor, materials, equipment and all other costs associated with installation of drop bowl assembly, pipe, fitting, stainless steel pipe straps and all necessary appurtenances as detailed on Sheet No. DET-2. The drop manhole assembly shall be installed on either existing or new manhole.
15. Bid Item 15 – PVC Wye Connection
 - a. Payment for this work shall be per Each basis.
 - b. Payment for this Bid Item shall include the purchase and installation of all required material in order to perform the installation as shown. This Unit Bid Price shall include the location and excavation of utilities, all required piping, concrete, cast iron cleanout frame and cover, fittings, caps, bedding, backfilling, etc.
16. Bid Item 16 – Air Release Valve Assembly
 - a. Payment for this work shall be per Each basis.
 - b. The Contractor’s Unit Bid Price for new Air Release Valve shall include all required labor, materials, equipment and all other costs associated of the air release valve, the manhole riser, frame and cover, the service saddle, the corporation stop, brass ball valve, service connection tubing, all brass shown in the detail, and crushed stone.
17. Bid Item 17 – Forcemain Cleanout
 - a. Payment for this work this work shall be per Each basis as shown on the Bid form and as follows: 17a – 6” or 8” Pressure In-Line Cleanout, 17b – 3” Pressure In-Line Cleanout.
 - b. Bid item shall include all labor, materials equipment and all other costs associated in the installation of Pressure In-Line Cleanout including excavation, bedding, backfill, materials, fittings, plug valves, concrete, pipe, tools, supplies, cleaning, testing, seeding and mulching, traffic control, and all other incidentals.
18. Bid Item 18 – Connection of New or Existing Sewer to Existing Manhole
 - a. Payment for connection of new or existing force main or sewer main to existing manholes shall be made by the unit Bid price per each connection.

- b. Bid prices shall include all labor and materials required, including but not limited to, excavation, backfill, cutting hole in existing manhole, concrete, grout seal, modification of flow channel as necessary, fittings, and incidental pipe to make the proper connection.
- 19. Bid Item 19 – Connection of Existing Sewer to New Sewer Outside New Manhole
 - a. Payment for connection of new or existing sanitary sewer pipe to new sewer pipe outside new manhole as shown on detail on Sheet No. DET-1 shall be made by the unit Bid price per each connection.
 - b. Bid prices shall include all labor and materials required, including but not limited to, excavation, backfill, cutting existing pipe, installation of flexible coupling (Fernco or equal), concrete, , and incidental material to make the proper connection.
- 20. Bid Item 20 – WVDOT Trench Repair
 - a. Bid items are broken out according to the type of Trench Repair as shown on the Bid form and as follows: 20a – Type “B”, 20b – Type “C”.
 - b. This Bid item shall include all required labor, materials, equipment and all other costs associated with the type of trench repair within the WV Division of Highways Right-of-Way as shown on the Drawings or as directed by the Engineer, and installed complete in place. All costs associated with traffic control shall be included in the unit price. Trench repairs shall be paid for by the linear foot, without regard to width, times the Bid price. No payment shall be made for trench repair outside the limits shown on the Contract Documents.
 - c. Payment shall be based on horizontal linear footage of trench repair as determined by the Contractor and confirmed by the Engineer. The Engineer has final authority for measured quantity.
- 21. Bid Item 21 – Reclamation of Disturbed Area
 - a. Measurement and Payment for this item shall include the purchase, delivery, and placement of lime, fertilizer, seed, and mulch and its application to all disturbed areas.
- 22. Bid Item 22 – Marlowe #1 Pump Station
 - a. Measurement for this bid item shall be lump sum and based on the breakdown by the Contractor in the approved Schedule of Values.
 - b. This Bid item shall include all cost associated with the installation of a new pump station including: all labor, materials and equipment for installation of new precast concrete wet well; prefabricated building enclosure with piping, pumps, valves, and controls; electrical; site work; and fencing as shown on the Drawings.
 - c. This Bid Item shall also include all costs associated with the following Specification Sections relating to Work of this Bid Item:
 - 1) Section 017823 – Operation and Maintenance Data
 - 2) Section 019100 – Commissioning
 - 3) Section 333218 – Submersible Non-Clog Pump Station

23. Bid Item 23 – Marlowe #2 Pump Station

- a. Measurement for this bid item shall be lump sum and based on the breakdown by the Contractor in the approved Schedule of Values.
- b. This Bid item shall include all cost associated with the installation of a new pump station including: all labor, materials and equipment for installation of new precast concrete wet well; prefabricated building enclosure with piping, pumps, valves, and controls; electrical; site work; and fencing as shown on the Drawings.
- c. This Bid Item shall also include all costs associated with the following Specification Sections relating to Work of this Bid Item:
 - 1) Section 017823 – Operation and Maintenance Data
 - 2) Section 019100 – Commissioning
 - 3) Section 333217 – Factory Built 10x18 Above Ground Pump Station with Duplex Self-Priming Pumps

24. Bid Item 24 – Marlowe #3 Pump Station

- a. Measurement for this bid item shall be lump sum and based on the breakdown by the Contractor in the approved Schedule of Values.
- b. This Bid item shall include all cost associated with the installation of a new pump station including: all labor, materials and equipment for installation of new precast concrete wet well; prefabricated building enclosure with piping, pumps, valves, and controls; electrical; site work; and fencing as shown on the Drawings.
- c. This Bid Item shall also include all costs associated with the following Specification Sections relating to Work of this Bid Item:
 - 1) Section 017823 – Operation and Maintenance Data
 - 2) Section 019100 – Commissioning
 - 3) Section 333216 – Above- Ground Valve Package Pump Station with Submersible Pumps

25. Bid Item 25 – Demolition of Existing Package Treatment Plants

- a. Bid items are broken out according to the location of the existing package wastewater treatment plant as shown on the Bid form and as follows: 25a – Riverside WWTP, 25b – Brookfield WWTP, 25c – Broad Lane WWTP.
- b. This Bid item shall include all cost associated with the demolition of the existing package treatment plants consisting of: cleaning of the tanks; removal of blowers and pumps; removal of the existing steel tanks; exposed piping; and conduit; electrical components; abandon-in-place manholes by removing the frame/cover and top section, fracturing bottom and backfill with stone; placement of backfill material to within 6” of grade; placement of 6” crushed stone base with filter fabric; disconnecting power and removal all conductors; and all other associated work. The existing perimeter fence shall remain. **The Owner will pump out the contents of the tanks and the Contractor shall provide assistance as needed. It is the intent to transfer the contents into the new the pump station.**
- c. **The following are the approximate dimensions of the existing steel treatment tanks at each treatment plant site.**
 - 1) **Item 25a:**
 - a) **Tank 1 – 47.6’ L x 12’ W x 12’ Deep**
 - b) **Tank 2 - 47.6’ L x 12’ W x 12’ Deep**

- c) **Tank 3 – 24 L x 12' W x 12' Deep**
 - d) **Chlorine Contact Tank (Concrete) – 13' L x 6' W x 7' Deep**
 - 2) **Item 25b:**
 - a) **Pre-EQ Basin – 12' L x 12' W x 12' Deep**
 - b) **Treatment Tank – 87.5' L x 12' W x 12' Deep**
 - 3) **Item 25c:**
 - a) **Tank 1 – 48' L x 16' W x 12' Deep**
 - b) **Tank 2 – 12' L x 6.7' W x 12' Deep**
 - c) **Sand Filters – 42' L x 28.4' W. Contractor shall remove and dispose of sand; and remove concrete/masonry walls.**
 - d) **UV Unit – 10.6' L x 4' W.**
 - d. **Item 25b – The work will include removing the existing steel package treatment plants that are stored at the plant site. There are a total of eight (8) tanks consisting of the following:**
 - 1) **Six (6) Tanks – 26' L x 12' W x 12' D.**
 - 2) **One (1) Tank – 15' L x 12' W x 12' D.**
 - 3) **One (1) Tank – 8' L x 8' W x 10' D.**
 - e. All materials will be disposed of in accordance with all local, state and federal regulations.
 - f. Measurement for this bid item shall be on a lump sum basis for each treatment plant site.
26. Bid Item 26 – 8" PVC C909 CL 235 Stream Crossing
- a. The forcemain installed under this Bid Item shall be measured and paid for by the linear feet of pipe installed complete in place. The measurement under this item shall be the length pipe and fittings 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.
 - b. The quantities determined as provided above will be paid for at the unit price Bid, which shall be full compensation for excavation, bedding, and backfilling and furnishing all materials and doing all the work herein prescribed in a workmanlike and acceptable manner, including all labor, tools, equipment, supplies, testing, and incidentals necessary to complete the work.
 - c. Fittings will be paid for as part of linear foot of pipe.
 - d. **Marking tape, tracer wire and post dome markers (wire termination) will be paid for as part of linear foot of pipe.**
 - e. Specific appurtenances, **including stone rip rap protection**, for force main construction have been detailed on the Drawings and will be paid for as part of linear feet of pipe.

PART 2 – PRODUCTS – Note Used

PART 3 – EXECUTION – Not Used

END OF SECTION 012000

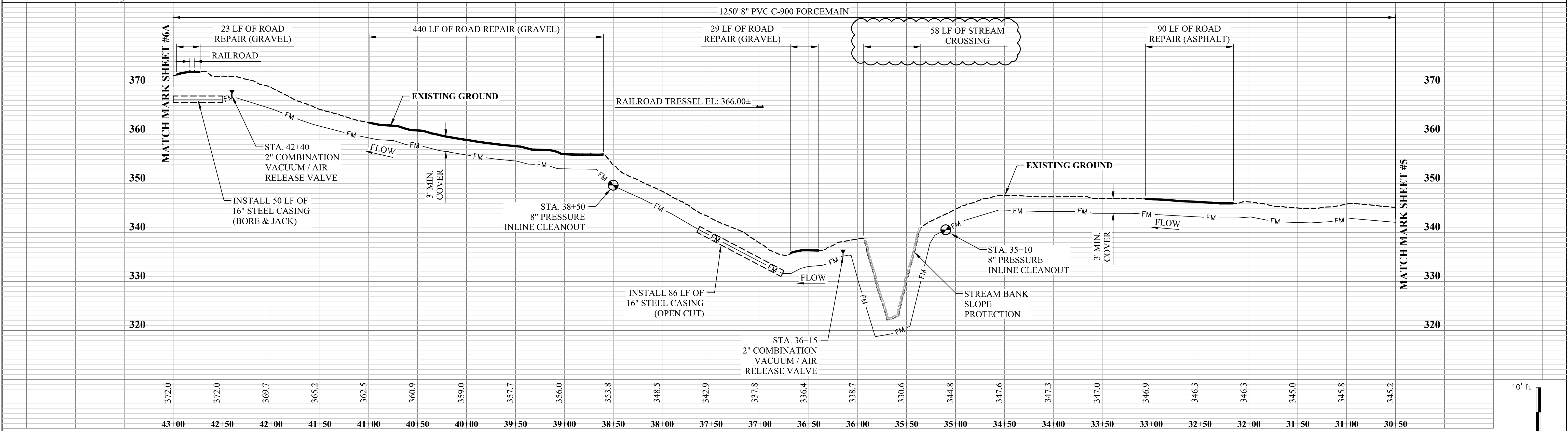
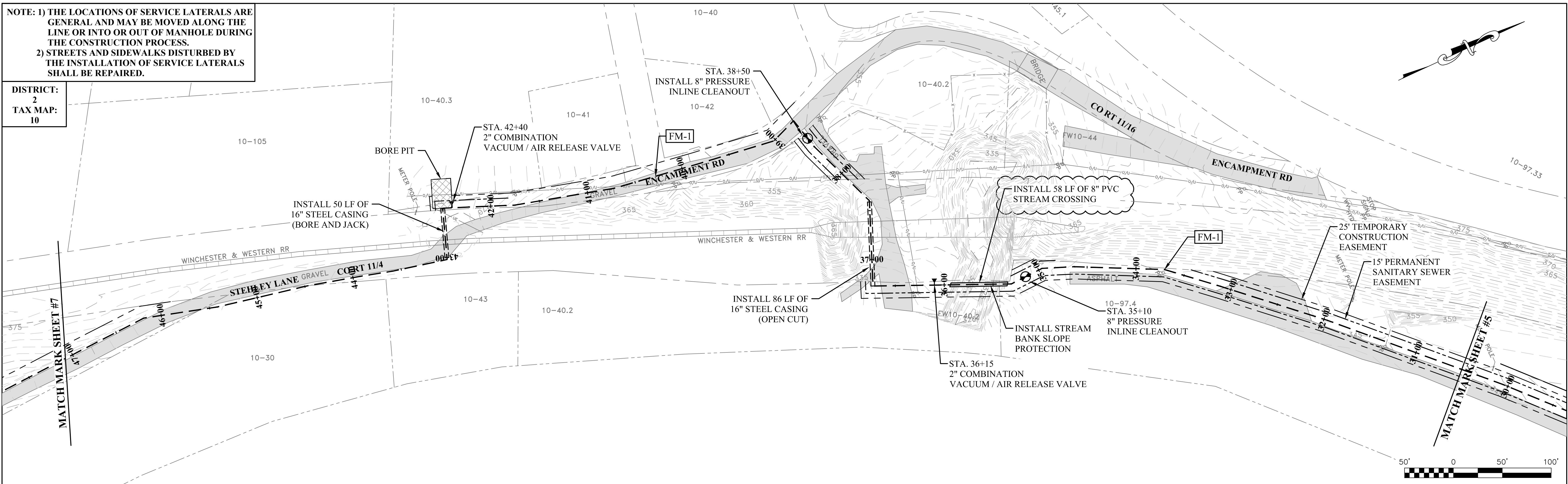
NOTE: 1) THE LOCATIONS OF SERVICE LATERALS ARE GENERAL AND MAY BE MOVED ALONG THE LINE OR INTO OR OUT OF MANHOLE DURING THE CONSTRUCTION PROCESS.
2) STREETS AND SIDEWALKS DISTURBED BY THE INSTALLATION OF SERVICE LATERALS SHALL BE REPAIRED.

DISTRICT:
2
TAX MAP:
10

USER: robert r. stowers
LAYOUT: Sheet 6

PLOT DATE/TIME: 6/6/2018 12:59 PM

CAD FILE: R:\020-1525 RIVERSIDE SEWER EXT-BERKELEY COUNTY PSSD-Drawing\06-2008-Sheet 06.dwg



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NO.	BY	DATE	DESCRIPTION
1	JDE	6/6/18	ADDED STREAM CROSSING NOTE

SCALE: AS NOTED
DRAWN: R. STOWERS DATE: 9/2017
CHECKED: J. EKSTROM DATE: 9/2017
APPROVED: J. EKSTROM DATE: 10/2017
SURVEY DATE:
SURVEY BY:
FIELD BOOK No.:

THRASHER
300 ASSOCIATION DRIVE
CHARLESTON, WV 25311
www.thrashereng.com

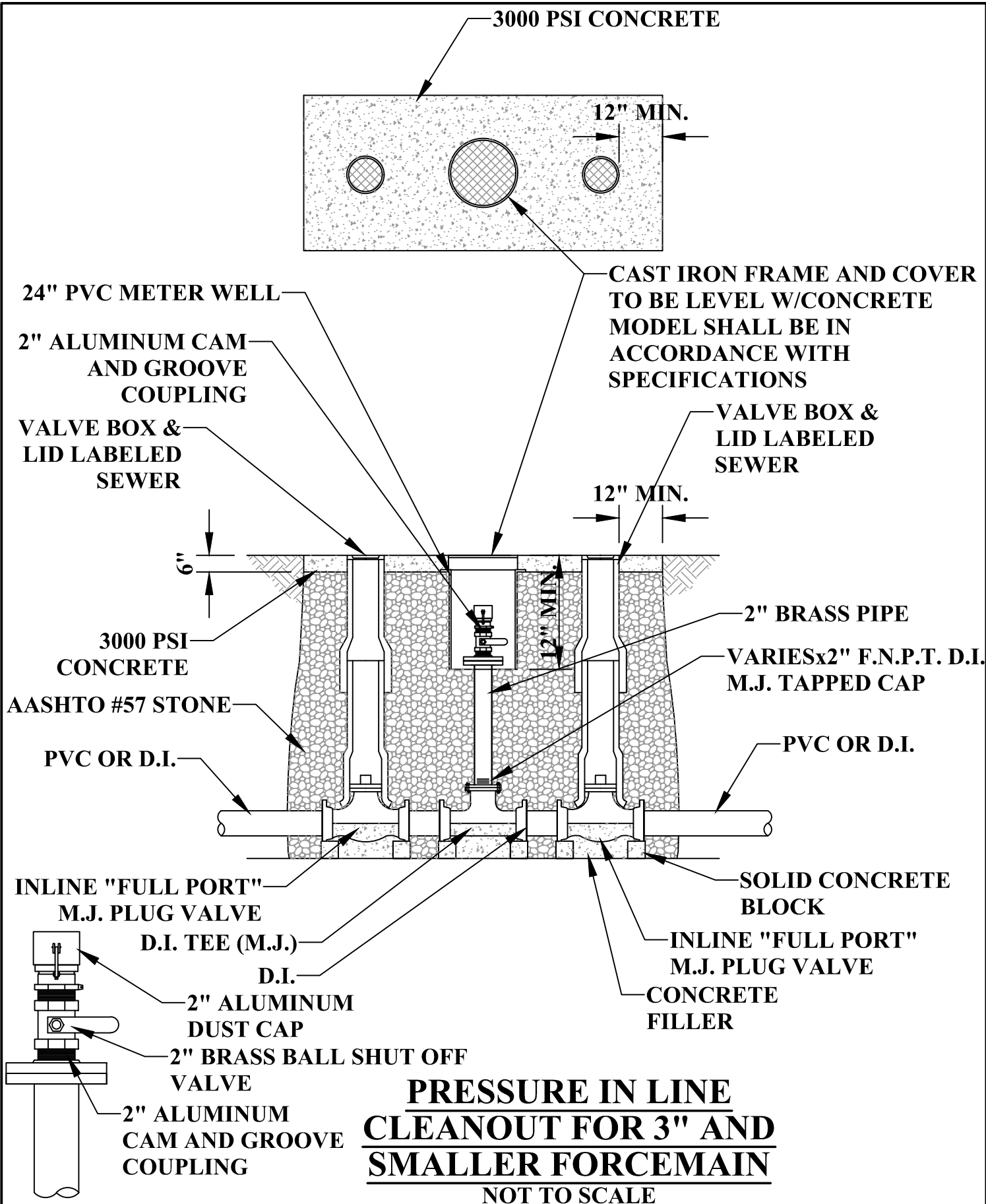
PHONE (304)-343-7601
FAX (304)-343-7604

PHASE No.
CONTRACT No.
6
PROJECT No.
202-020-1525

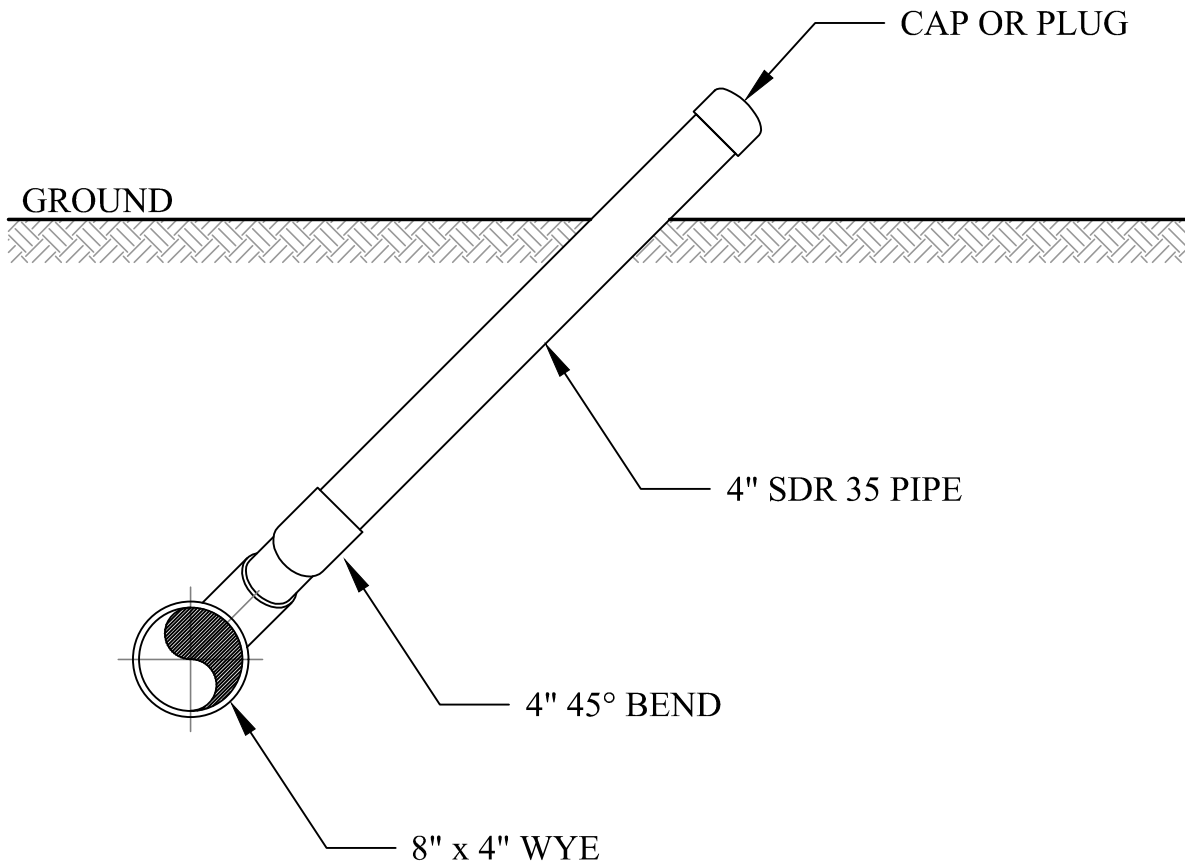
ADDENDUM No.1

BERKELEY COUNTY PSSD
BERKELEY COUNTY, WEST VIRINGIA
RIVERSIDE WWTP CONSOLIDATION
FORCEMAIN #1
PLAN AND PROFILE

SHEET No.
6



THRASHER



SERVICE LATERAL
NOT TO SCALE

Berkeley County Public Service Sewer District
Contract No. 6 – Riverside WWTP Consolidation

Pre-Bid Meeting

May 30, 2018

Introductions:

Owner – Curtis Keller, General Manager
Rodney Hanes, Assistant General Manager

Engineers - The Thrasher Group 304-343-7601
Jeff Ekstrom – Project Manager
Ryan Boustany – Project Engineer

Sign-In Sheet: Please sign.

Funding for Project: Berkeley County PSSD.

Bid Date: June 13, 2018, PSSD Office; Contract No. 6 – 2:00 PM.

Project Location: Marlowe/Falling Waters area to Spring Mills High School.

Project Description:

The project consists of the abandoning three (3) packaged treatment plants (Riverside, Brookfield and Broad Lane) and construction of three (3) lift stations to transfer flow to Berkeley County PSSD's existing collection system located behind Spring Mills High School.

The work includes the installation of 1 LS for Mobilization/Demobilization; 1 LS for Pre-Construction Video of Project Area; 1 LS for Erosion and Sediment Erosion Control; 3,820 LF of 12" PVC SDR-35 Gravity Sewer Line; 260 LF of 8" PVC SDR-35 Gravity Sewer Line; 140 LF of 4" PVC SDR-35 Service Lateral Pipe; 13,450 LF of 8" PVC C900 CL 166 Force Main; 3,450 LF of 6" PVC C900 CL 166 Force Main; 2,355 LF of 3" PVC SDR-21 Class-200 Force Main; 70 LF of 24" Steel Casing (Bore & Jack); 450 LF of 16" Steel Casing (Bore & Jack); 90 LF of 16" Steel Casing (Open Cut); 50 LF of 12" Steel Casing (Open Cut); 35 LF of 6" Steel Casing (Open Cut); 18 EA of 48" Diameter Manholes w/Standard Frame and Covers; 9 EA of 48" Diameter Manholes w/Watertight Frame and Covers; 30 VF of 48" Diameter Manhole Riser Sections; 5 EA of Interior Drop Manhole Connections; 10 EA of PVC Wye Connections; 14 EA of Air Release Valve Assemblies; 13 EA of Force Main Cleanouts; 5 EA of Connections of New/Existing Sewer to Existing Manholes; 3 EA of Connection of Existing Sewer to New Sewer Outside New Manhole; 375 LF of WVDOH Type "B" Trench; 3,615 LF of WVDOH Type "C" Trench; 19,300 LF of Reclamation of

Disturbed Area; 1 LS for Marlowe #1 Pump Station; 1 LS for Marlowe #2 Pump Station; 1 LS for Marlowe #3 Pump Station; 1 LS for Demolition of Existing Riverside Package WWTP; 1 LS for Demolition of Existing Brookfield Package WWTP; 1 LS for Demolition of Existing Broad Lane Package WWTP; and all necessary appurtenances to complete the Work.

Bid Packet: Refer to Bid Packet for all documents required to be submitted with the Bid.

Envelope 1: Bid Opening Requirement Items (BOR): Bid Bond, Certification of Receipt of all Addendums, Drug Free Work Place Affidavit, Copy of West Virginia Contractor's License

Envelope 2: Bid Form. Shall be placed in Envelope 1.

Note: no informalities will be waived during bidding. Any non-responsive bids will be rejected.

Bid Hold: 90 Days, Bid Bond Required (5% of Bid)

Retainage: Shall be 10% until Substantial Completion.

Contract Times: Substantial Completion – 270 days; Ready for Final Payment – 300 days.

B&O Tax: Does not apply to this project.

Contractor's Business License: A Business License to perform work in Berkeley County is not required.

Prevailing Wages: State or Federal Wage Rates do not apply.

EJCDC Documents: Are used on this project, version 2013.

Refer to SGC for additional items to be included in the General Conditions of the Contract:

Permits: All permits have been obtained by the Owner. Contractor's responsible for any and all fines.

Working Hours: Contractor's work schedule limited to 40 hours per week. Contractor may only work in excess of 40 hours with prior arrangements with the owner to cover Owner and Engineer's expenses.

Subcontracting: Please refer to Page SGC-4, Item 8. The General Contractor shall be required to perform a minimum of fifty (50%) percent of the work on this contract with his own work force.

Project Sign: Project sign will not be required.

Project Trailer: A project trailer will be required for the Engineer.

Addendum No. 1: Today's meeting notes and sign-in sheet will be issued in an addendum.

Last Day for Questions: June 6, 2018. All questions must be faxed to 304-343-7604.

Questions?

BERKELEY COUNTY PUBLIC SERVICE SEWER DISTRICT
BERKELEY COUNTY, WEST VIRGINIA

CONTRACT NO. 6 - RIVERSIDE WWTP CONSOLIDATION

PRE-BID MEETING
2:00 P.M.
May 30, 2018

NAME	REPRESENTING	E-MAIL ADDRESS/PHONE
Tim Carl	J.F. ALLEN	tfarr@jfallenco.com 304 614 3179
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