



ENGINEERING
ARCHITECTURE
FIELD SERVICES

**CITY OF BRIDGEPORT
HARRISON COUNTY, WEST VIRGINIA**

**CONTRACT #1
PROPOSED EMERGENCY PUMP CONNECTIONS AND WATER LINE UPGRADE**

ADDENDUM #1

SEPTEMBER 2, 2022

THRASHER PROJECT #010-10073

TO WHOM IT MAY CONCERN:

A Pre-Bid Conference was held on Thursday, August 24, 2022, on the above-referenced project, a copy of the sign in sheet is included in this Addendum. The following are clarifications and responses to questions posed by contractors for the above reference project.

A. GENERAL

1. **THE BID FORM HAS BEEN REVISED. YOU MUST USE THE REVISED BID FORM WHEN PREPARING YOUR BID PACKAGE FOR THIS PROJECT.**

B. SPECIFICATIONS

Specification Section – 024010 Video Recording

C. DRAWINGS

Sheet 1 has been updated as part of this Addendum.
Sheet DET-7 has been updated as part of this Addendum.

D. QUESTIONS AND RESPONSES

QUESTION

1. Are B&O taxes required?

RESPONSE

Yes, a 2% B&O tax will be required. All sub-contractors are required to pay the tax as well.

QUESTION

2. Are prevailing wage rates required?

RESPONSE

No, federal wage rates do not apply.

QUESTION

3. Jack & Bore shows 130 LF on bid schedule, but 70 LF on the plans. Which is correct?

RESPONSE

70 LF is correct. The bid schedule has been revised as part of this addendum.

QUESTION

4. Regarding the bedding details, can the engineer please clarify what is considered rigid and non-rigid pipe on the project?

RESPONSE

PVC pipes which meet or exceed ASTM D1784 are considered to be rigid pipes. PVC C-900 is considered a rigid pipe. Ductile iron is required on this project as well and it is considered rigid pipe.

QUESTION

5. Detail provided for silt fence, but see none on the plans?

RESPONSE

Silt fence will not be required. Compost filter sock will be required for curb inlet protection. Plan Sheets 1 and DET-7 have been revised to reflect this.

QUESTION

6. What is the projected contract start date for the project?

RESPONSE

The contract start date will commence 10 days after the Notice to Proceed. The Notice to Proceed is expected to be issued on or about September 27, 2022. The contract start date will commence approximately 10 days later.

E. CLARIFICATIONS

1. **THE BID FORM HAS BEEN REVISED. YOU MUST USE THE REVISED BID FORM WHEN PREPARING YOUR BID PACKAGE FOR THIS PROJECT.**
2. The bidding process is a two (2) envelope system. Envelope No. 1 must have the following information presented on the front:

Name and address of Bidder
Bid on Contract #2 – Proposed Water Storage Tank
Received by the City of Bridgeport

Envelope No. 2 labeled “Bid Proposal” shall be placed inside of Envelope #1

Envelope No. 1 will be opened first and the Bid Opening Requirement items will be checked for compliance as outlined on the Bid Opening Checklist (BOR-1). If such documents are found to be in order, Envelope No. 2 “Bid Proposal”, will be opened and will be publicly read aloud. If the documents required to be contained in Envelope No. 1 **are not in order**, Envelope No. 2 “Bid Proposal”, **will not be opened** and the Bid will be considered non-responsive.

3. The work along Chester Drive is recommended to be completed with a trencher in order to limit disturbance. Regardless of equipment used, the contractor needs to take extra care along curbs and existing landscaping. The Pre-Construction Video should document the existing conditions thoroughly.

If you have any questions or comments, please feel free to contact me at your earliest convenience. As a reminder, bids will be received until 2:00 p.m. on Thursday, September 8, 2022 by the City of Bridgeport located at 515 West Main Street, Bridgeport, Harrison County, West Virginia 26330.

Sincerely,

THE THRASHER GROUP, INC.

DANIEL E. FERRELL, P.E.
Project Manager

Enclosures: Pre Bid Meeting Sign In Sheet
C-410 Bid Form
Specification Section – 024010 Video Recording
Plan Sheet 1
Plan Sheet DET-7



**CITY OF BRIDGEPORT
HARRISON COUNTY, WEST VIRGINIA
CONTRACT #1 -- PROPOSED EMERGENCY PUMP CONNECTIONS AND WATER LINE UPGRADE**

PRE-BID CONFERENCE
Thursday, August 24, 2022, 10:00AM

Thrasher Project # 010-10073

Name	Representing	Phone #	Email Address
Dan Fennel	Thrasher		
Anthony Ugoi	Thrasher		
Bill Saunders	CORE MAN	304-612-3440	william - Saunders @ CORE MAN . com
Trent Shepherd	Walfes Excavating	304-771-7906	tshpherd@walfesexcavating.com
Alex Lear	Enviroclean	304-641-1592	alex@envirocleanwv.com
Janey Lowther	Blue Ridge Contracting Group Construction Group	304-613-9664	Hallscom@yahoo.com
Christopher Hall	POSS Enterprises	304-884-2325	craig.howard@dossentersprises.com
COREY RAAP	BEAR CONTRACTING	304-476-3717	dwilson@bear-contracting.com craap@bear-contracting.com
Serena Williams	Brisson Vandevender Contracting	304-413-3109	SerenaW@BRAllanCA.com

[Handwritten signature/initials]

Name	Representing	Phone #	Email Address
Tim Carr	JF Aiken	304 472 - 8890	tcarr@jfallenco.com
Tiny Gomes	City of Bridgeport		
Jake Griffith	City of Bridgeport		
Jared Cummons	City of Bridgeport		
Bart Fox	City of Bridgeport		
Dylan Bowers	Laurita Inc.	304-296-7531	dbowers@Laurita.com
Jack Skidmore	Mountain Hans Properties	304-380-5595	jackskidmore@mountainhans.net

BID FORM FOR CONSTRUCTION CONTRACT

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 1—OWNER AND BIDDER

1.01 This Bid is submitted to:

*City of Bridgeport
515 West Main Street
Bridgeport, WV 26330*

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—ATTACHMENTS TO THIS BID

2.01 The following documents are submitted with and made a condition of this Bid:

A. Bid Opening Requirements

ARTICLE 3—BASIS OF BID—LUMP SUM BID AND UNIT PRICES

GENERAL

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.

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.

BID PROPOSAL

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 Contract #1 – Proposed Emergency Pump Connections and Water Line Upgrade. The Project "Sequence of Construction" has been detailed in the Drawings and Specification Division 1, Project Summary, Section 011000. The Bidder agrees to perform all the Work proposed for the total of the following Bid prices.

3.01 *Lump Sum Bids*

A. Bidder will complete the Work in accordance with the Contract Documents for the lump sum (stipulated) price(s), together with any Unit Prices indicated in Paragraph 3.02 and shown in the bid schedule.

- B. Lump Sum Bids may be one of the following:
 - 1. Lump Sum Price (Single Lump Sum)
 - 2. Lump Sum Price (Base Bid and Alternates)
 - 3. Lump Sum Price (Sectional Lump Sum Bids)
- C. All specified cash allowance(s) are included in the price(s) set forth in the bid schedule, and have been computed in accordance with Paragraph 13.02 of the General Conditions.
- D. All specified contingency allowances are included in the price(s) set forth in the bid schedule, and have been computed in accordance with Paragraph 13.02 of the General Conditions.

3.02 *Unit Price Bids*

- A. Bidder will perform the following Work at the indicated unit prices as shown in the Bid Schedule.
- B. 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 Work will be based on actual quantities, determined as provided in the Contract Documents.

3.03 Total Bid Price (Lump Sum and Unit Prices)

BID SCHEDULE

**PROPOSED
CONTRACT #1 – PROPOSED EMERGENCY PUMP CONNECTIONS AND WATER LINE UPGRADE
FOR THE
CITY OF BRIDGEPORT
HARRISON COUNTY, WEST VIRGINIA**

NOTE: Bid PRICE amounts are to be shown in both words and figures. In case of discrepancy, the amount shown in words will govern. Bids shall include sales tax and all other applicable taxes and fees.

Item #	Qty.	UNIT	DESCRIPTION	UNIT PRICE	UNIT PRICE WRITTEN IN WORDS	TOTAL PRICE
1	1	LS	Mobilization/Demobilization			
2	1	LS	Erosion and Sediment Controls			
3	1,525	LF	10" PVC C-900 Water Line			

Item #	Qty.	UNIT	DESCRIPTION	UNIT PRICE	UNIT PRICE WRITTEN IN WORDS	TOTAL PRICE
4	70	LF	20" Steel Casing (Bore & Jack)			
5	2	EA	2" Air Release Valve			
6	2	EA	Tie-in to Existing Water Line			
7	1	LS	Tie-ins at Existing PRV			
8	1	LS	Charles Pointe Backup Connection, Complete			
9	1	LS	East Pointe Backup Connection, Complete			
10	1	LS	Construction Stakeout			

Item #	Qty.	UNIT	DESCRIPTION	UNIT PRICE	UNIT PRICE WRITTEN IN WORDS	TOTAL PRICE
11	1,395	LF	Reclamation of Disturbed Areas			
12	1	LS	Videotaping of Project Area			

TOTAL BID: _____ (Words) _____ (\$ _____) (Figures)

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

3.04 *Method of Award*

If at the time this contract is to be awarded, the lowest total bid submitted by a qualified, responsive, 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 exceeds such amount, the owner may reject all bids.

- A. Unit prices have been computed in accordance with paragraph 13.03.A of the General Conditions.
- B. 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.

ARTICLE 4 — BASIS OF BID — COST PLUS FEE

4.01 ~~The Contract Price will be the Cost of the Work, determined as provided in Paragraph 13.01 of the General Conditions, together with the following fee, and subject to the Guaranteed Maximum Price.~~

4.02 *Contractor's Fee*

~~A. Contractor's fee will be [number] percent of the Cost of the Work. No fee will be payable on the basis of costs itemized as excluded in Paragraph 13.01.C of the General Conditions.~~

- ~~1. The maximum amount payable by Owner as a percentage fee (Guaranteed Maximum Fee) will not exceed \$[insert cap amount], subject to increases or decreases for changes in the Work.~~

~~B. Contractor's fee will be determined by applying the following percentages to the various portions of the Cost of the Work as defined in Article 13 of the General Conditions. No fee will be payable on the basis of costs itemized as excluded in Paragraph 13.01.C of the General Conditions:~~

Costs	Percent
Payroll costs (See Paragraph 13.01.B.1, General Conditions)	
Materials and Installed Equipment cost (GC 13.01.B.2)	
Amounts to be paid to Subcontractors (GC 13.01.B.3)	
Amount to be paid to special consultants (GC 13.01.B.4)	
Other costs (GC 13.01.B.5)	

- ~~1. The maximum amount payable by Owner as a percentage fee (Guaranteed Maximum Fee) will not exceed \$[insert cap amount], subject to increases or decreases for changes in the Work.~~

~~C. Contractor's fee will be the fixed sum of \$[number].~~

4.03 *Guaranteed Maximum Price*

~~A. The Guaranteed Maximum Price to Owner of the Cost of the Work including Contractor's Fee will not exceed \$[Bidder fill in GMP].~~

Deleted

ARTICLE 5—PRICE PLUS TIME BID

5.01 *Price Plus Time Contract Award (Stipulated Price Contract)*

A. ~~The Bidder to which an award of the Contract will be made will be determined in part on the basis of the Total Bid Price and the total number of calendar days to substantially complete the Work, in accordance with the following:~~

	Description		Amount
A	1. Total Bid Price		#{number}
	2. Total number of calendar days to substantially complete the Work	{number} days	
	3. Liquidated Damages Rate (from Agreement)	#{number}/day	
B	4. Adjustment Amount (2 x 3)		#{number}
A+B	5. Amount for Comparison of Bids		#{number}

B. ~~The purpose of the process in the table above is only to calculate the lowest price plus time (A+B) bid amount for bid comparison purposes. The price for completion of the Work (the Contract Price) is the Total Bid Price.~~

C. ~~Bonds required under Paragraph 6.01 of the General Conditions will be based on the Contract Price.~~

5.02 *Price Plus Time Contract Award (Cost Plus Fee with Guaranteed Maximum Price Contract)*

A. ~~The Bidder to which an award of Contract will be made will be determined in part on the basis of the Guaranteed Maximum Price and the total number of calendar days to substantially complete the Work, in accordance with the following:~~

	Description		Amount
A	1. Guaranteed Maximum Price		#{number}
	2. Total number of calendar days to substantially complete the Work	{number} days	
	3. Liquidated Damages Rate (from Agreement)	#{number}/day	
B	4. Adjustment Amount (2 x 3)		#{number}
A+B	5. Amount for Comparison of Bids		#{number}

B. ~~The purpose of the process in the table above is only to calculate the lowest price plus time (A+B) bid amount for bid comparison purposes. The price for completion of the Work (the Contract Price) is based on the cost of the Work, plus a fee, subject to a guaranteed maximum price, as set forth in the Agreement.~~

C. ~~Bonds required under Paragraph 6.01 of the General Conditions will be based on the Contract Price.~~

Deleted

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 agrees that the Work will be substantially complete on or before ~~[Bidder inserts date]~~, and will be completed and ready for final payment in accordance with Paragraph 15.06 of the General Conditions on or before ~~[Bidder inserts date]~~.

~~Deleted~~

6.03 Bidder agrees that the Work will be substantially complete within ~~[Bidder inserts number]~~ calendar days after the date when the Contract Times commence to run as provided in Paragraph 4.01 of the General Conditions, and will be completed and ready for final payment in accordance with Paragraph 15.06 of the General Conditions within ~~[Bidder inserts number]~~ calendar days after the date when the Contract Times commence to run.

~~Deleted~~

6.04 Bidder accepts the provisions of the Agreement as to liquidated damages.

ARTICLE 7—BIDDER’S ACKNOWLEDGEMENTS: ACCEPTANCE PERIOD, INSTRUCTIONS, AND RECEIPT OF ADDENDA

7.01 *Bid Acceptance Period*

A. 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.

7.02 *Instructions to Bidders*

A. Bidder accepts all of the terms and conditions of the Instructions to Bidders, including without limitation those dealing with the disposition of Bid security.

7.03 *Receipt of Addenda*

A. Bidder hereby acknowledges receipt of the following Addenda:

Addendum Number	Addendum Date

ARTICLE 8—BIDDER’S REPRESENTATIONS AND CERTIFICATIONS

8.01 *Bidder’s Representations*

A. In submitting this Bid, Bidder represents the following:

1. Bidder has examined and carefully studied the Bidding Documents, including Addenda.
2. Bidder has visited the Site, conducted a thorough visual examination of the Site and adjacent areas, and become familiar with the general, local, and Site conditions that may affect cost, progress, and performance of the Work.
3. Bidder is familiar with all Laws and Regulations that may affect cost, progress, and performance of the Work.
4. Bidder has carefully studied the reports of explorations and tests of subsurface conditions at or adjacent to the Site and the drawings of physical conditions relating to existing surface or subsurface structures at the Site that have been identified in the Supplementary Conditions, with respect to the Technical Data in such reports and drawings.

5. Bidder has carefully studied the reports and drawings relating to Hazardous Environmental Conditions, if any, at or adjacent to the Site that have been identified in the Supplementary Conditions, with respect to Technical Data in such reports and drawings.
6. 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 the Technical Data identified in the Supplementary Conditions or by definition, with respect to the effect of such information, observations, and Technical Data on (a) the cost, progress, and performance of the Work; (b) the means, methods, techniques, sequences, and procedures of construction to be employed by Bidder, if selected as Contractor; and (c) Bidder's (Contractor's) safety precautions and programs.
7. Based on the information and observations referred to in the preceding paragraph, Bidder agrees that no further examinations, investigations, explorations, tests, studies, or data are necessary for the performance of the Work at the Contract Price, within the Contract Times, and in accordance with the other terms and conditions of the Contract.
8. 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.
9. Bidder has given Engineer written notice of all conflicts, errors, ambiguities, or discrepancies that Bidder has discovered in the Bidding Documents, and of discrepancies between Site conditions and the Contract Documents, and the written resolution thereof by Engineer is acceptable to Contractor.
10. The Bidding Documents are generally sufficient to indicate and convey understanding of all terms and conditions for performance and furnishing of the Work.
11. The submission of this Bid constitutes an incontrovertible representation by Bidder that without exception the Bid and all prices in the Bid are premised upon performing and furnishing the Work required by the Bidding Documents.

8.02 *Bidder's Certifications*

A. The Bidder certifies the following:

1. 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.
2. Bidder has not directly or indirectly induced or solicited any other Bidder to submit a false or sham Bid.
3. Bidder has not solicited or induced any individual or entity to refrain from bidding.
4. Bidder has not engaged in corrupt, fraudulent, collusive, or coercive practices in competing for the Contract. For the purposes of this Paragraph 8.02.A:
 - a. Corrupt practice means the offering, giving, receiving, or soliciting of anything of value likely to influence the action of a public official in the bidding process.
 - b. 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.

- c. 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.
- d. 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.

BIDDER hereby submits this Bid as set forth above:

Bidder:

(typed or printed name of organization)

By:

(individual's signature)

Name:

(typed or printed)

Title:

(typed or printed)

Date:

(typed or printed)

If Bidder is a corporation, a partnership, or a joint venture, attach evidence of authority to sign.

Attest:

(individual's signature)

Name:

(typed or printed)

Title:

(typed or printed)

Date:

(typed or printed)

Address for giving notices:

Bidder's Contact:

Name:

(typed or printed)

Title:

(typed or printed)

Phone:

Email:

Address:

Bidder's Contractor License No.: (if applicable)

SECTION 024010 - VIDEO RECORDING

PART 1 - General

1.1 SUMMARY

- A. Contractor shall furnish labor, materials, and equipment to provide a complete audio-video record of existing surface features within the zone influenced by construction of the Project.
- B. This files shall be included on a USB Flash Drive (or SSD), recording logs, indexing, and other specified equipment.

PART 2 - PRODUCTS

2.1 EQUIPMENT

A. Recording System

- 1. General: The audio-video recording system and procedures used shall be capable of producing an accurate visual record of existing conditions. The video portion of the recording shall reproduce bright, sharp, clear pictures with accurate colors and shall be free from distortion, tearing, rolls, skips or any other form of picture imperfection. The audio portion of the recording shall reproduce the commentary of the camera operator with proper volume, clarity, and be free from distortion.
- 2. Cameras
 - a. Recording: The recording device used shall have a minimum resolution of 720p.
- 3. Recorder
 - a. The files shall be made to a drive formatted to Windows OS.
- 4. Media
 - a. The recordings shall be saved to a drive. The drive shall have sufficient storage for all pre-construction recordings of the project.

2.2 COMPOSITIONAL REQUIREMENTS

A. Video Content

- 1. Scope of Coverage
 - a. General: The recordings shall contain coverage of all surface features located within the construction's zone of influence. The construction's zone of influence

shall be defined (1) as the area within the permanent and temporary easements which may be affected by routine construction operations; (2) buildings with 100 feet of the proposed right-of-way; and (3) adjacent areas requested at the direction of the Owner. The surface features within the construction's zone of influence shall include, but not be limited to, all roadways, pavements, curbs, driveways, sidewalks, culverts, headwalls, retaining walls, buildings, landscaping, trees, shrubbery, and fences. Of particular concern shall be the existence or nonexistence of any faults, fractures, or defects.

- b. Streets: Where construction will extend in or adjacent to a street, the full width of the construction's zone of influence including the street right-of-way and the areas adjacent to both sides of that right-of-way shall be recorded, unless otherwise authorized by the Owner. The term street shall be understood to mean a highway, road, street, avenue, boulevard, lane, circle, alley, etc.
- c. Easements: Where construction will extend through easement areas, the permanent and temporary easements and all other adjacent areas lying within the construction's zone of influence shall be recorded. The term easement shall be understood to mean all areas not defined as streets.
- d. One of the primary purposes of the video recording of the entire Project is to determine the legitimacy of Claims of damages by property owners. Damages to existing structures existing prior to construction must be recorded on the video before the Contractor can claim the damage existed prior to the time of construction.

2. Alpha-Numeric Displays

- a. Recordings shall display continuously and simultaneously generated, transparent, alpha-numeric information to include the following:
 - 1) Index Number, Project Title, and General Project Location: Each recording shall begin with a single, multi-line, alpha-numeric display indicating the video index number, Project title, and general location of the Project.
 - 2) Time and Date: During the entire duration of the recordings, the time (hours, minutes, and seconds - separated by colons) and date (consisting of month, day, and year - separated by slashes) of recording must appear in the corner of the picture.
 - 3) Name and Side of Street of Easement: During the entire duration of the recordings, the name and side of the street or easement being recorded must appear across the bottom of the picture.
 - 4) Camera Position: During the entire duration of the recordings, the position of the camera, accurately referenced and displayed in terms of the construction's engineering stationing, shall be displayed (in standard stationing format) in the lower left-hand corner of the picture. Where no stationing appears on the engineering Drawings, and appropriate stationing system, acceptable to the Owner, shall be established and utilized.

B. Audio Content

1. Accompanying the audio recording shall be a simultaneously recorded. This audio shall assist in the maintenance of viewer orientation and in any needed identification, differentiation, clarification, or objective description of the structures being shown in the

video portion of the recording. The audio recording also shall be free from any conversations between the camera operator and the other production technicians.

C. Indexing

1. Identification: Storage cases shall be properly identified by index number, Project, title, and general Project location.
2. Logs: Logs may be included on the drive as a text file. The log shall describe the various segments of coverage contained on that videotape in terms of the names and sides of the streets or easements, coverage beginning and endpoints, and directions of coverage.
3. Index: An alphabetical index correlating the various segments of coverage to their corresponding vid shall be included on the drive.

PART 3 - EXECUTION

3.1 SCHEDULE

- A. The recording shall be performed prior to the placement of any construction materials or equipment on the proposed construction Site.
- B. All recording shall be performed during times of good visibility. No recording shall be done during periods of significant precipitation, mist, or fog. The recording shall only be done when sufficient sunlight is present to properly illuminate the subjects of recording, and to produce bright, sharp video recordings of those subjects.
- C. No recording shall be performed when more than 10 percent of the ground area is covered with snow, unless otherwise authorized by the Owner.

3.2 COVERAGE RATES

- A. The average rate of travel during a particular segment of coverage (e.g., coverage of one side of a street) shall be indirectly proportional to the number, size, and value of the surface features within that construction area. The following table shall be used to establish rates of travel:

AREA	TYPICALLY CHARACTERIZED BY	MAX. RATE
1. High Density (e.g., drives, developed sub-lots; division)	hard surface streets, curbs & sidewalks; 50 ft. lots, very few empty lots	30 ft./min.
2. Med. Density (e.g., partially developed subdivision)	gravel roads, hard & soft surface drives, no sidewalks, culverts & headwalls, 100 ft. lots, few empty lots	60 ft./min.

3. Low Density (e.g., sub-urban fringe)	gravel roads, small fields or woods, occasional houses	90 ft./min.
4. Extra Low Density	gravel roads, large fields sparse number of houses	90 ft./min.

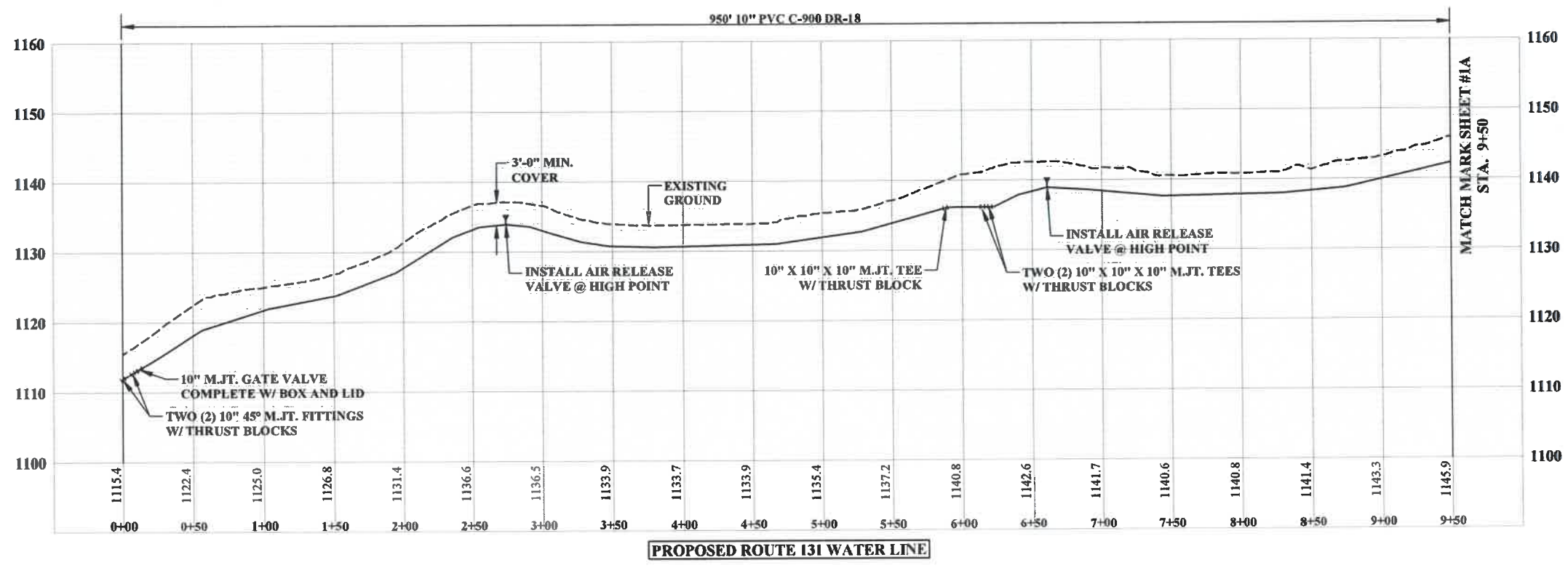
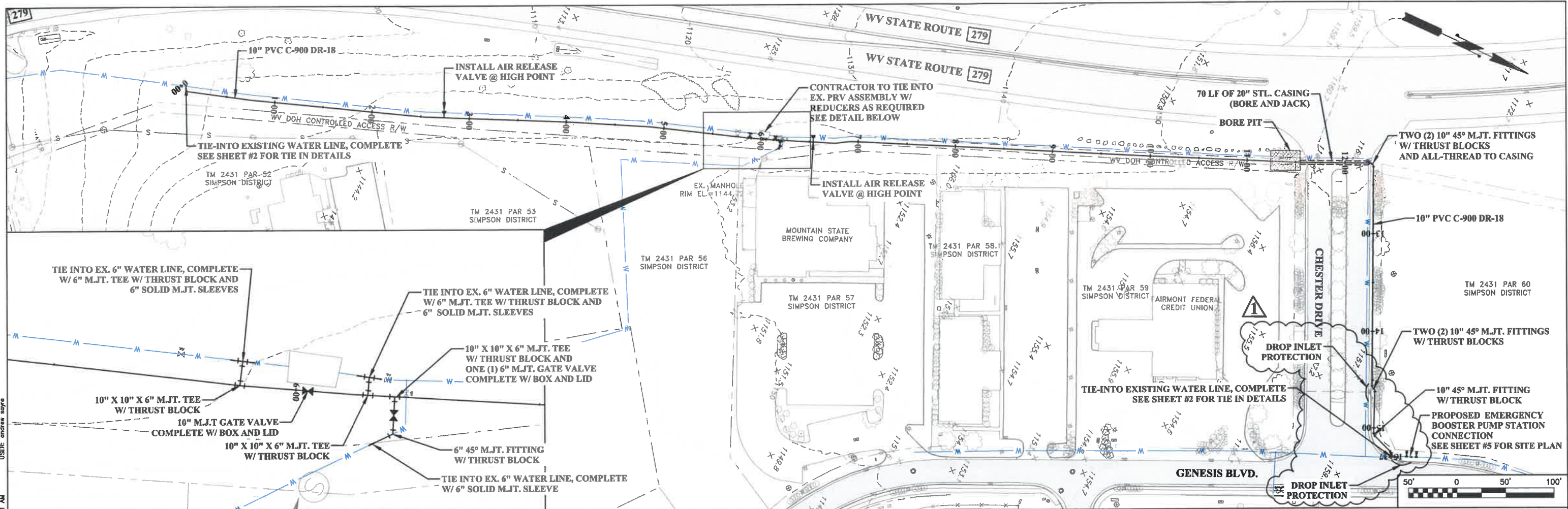
3.3 FIELD QUALITY CONTROL

- A. Coverage shall not consist of a group of recordings at various positions along a proposed construction area but shall consist of a single, continuous, unedited recording which begins at one end of a particular construction area and continues to the other end of that construction area. However, where coverage is required in area not accessible by conventional wheeled vehicles and smooth transport of the recording system is not possible, such coverage shall consist of an organized, interrelated sequence of recordings at various positions along that proposed construction area (e.g., wooded easement area).
 - 1. When conventional wheeled vehicles are used for the recording system, the distance between the camera lens and the ground shall not be less than 12 feet. The camera shall be firmly mounted, so that movement of the camera during the recording process will not cause and unsteady picture.

3.4 DELIVERY OF DRIVES

- A. Two (2) copies of the drives are to be delivered to the Engineer or Owner prior to the start of any construction within the applicable zones of influence

END OF SECTION 024010



LAYOUT TAB SHEET 01
 CAD FILE: R:\VDC\100-10073-Additional Water Tank-City of Bridgeport-Drawing\DWG\Design\1001-sheet-01.dwg
 PLOT DATE/TIME: 9/1/2022 10:21 AM
 USER: andrew sayo

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NO.	BY	DATE	DESCRIPTION
1	AS	9/1/2022	ADDENDUM #1



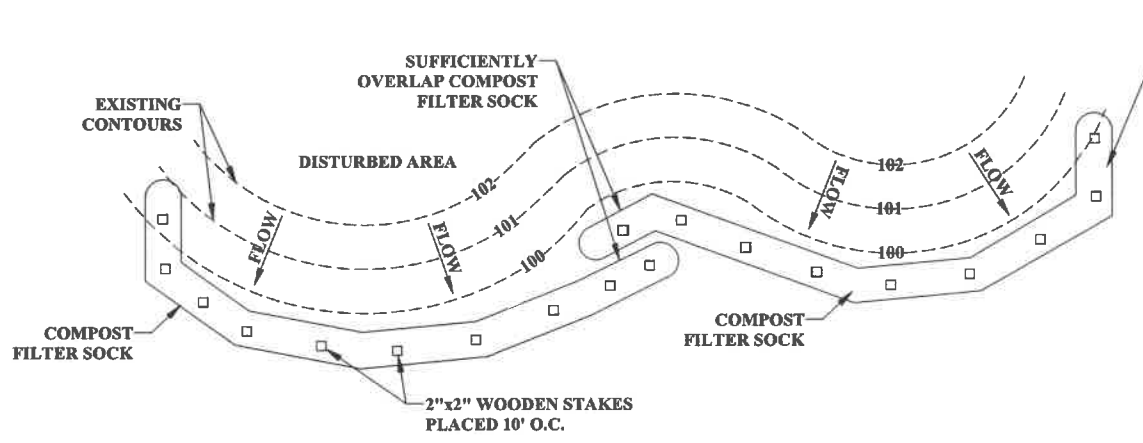
SCALE: AS NOTED
 DRAWN: P. LANTZ DATE: 9/2021
 CHECKED: DATE:
 APPROVED: DATE:
 SURVEY DATE:
 SURVEY BY:
 FIELD BOOK No.:

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 BRIDGEPORT WV 26330
 www.thrashereng.com
 PHONE (304) 624-4108 FAX (304) 624-7831

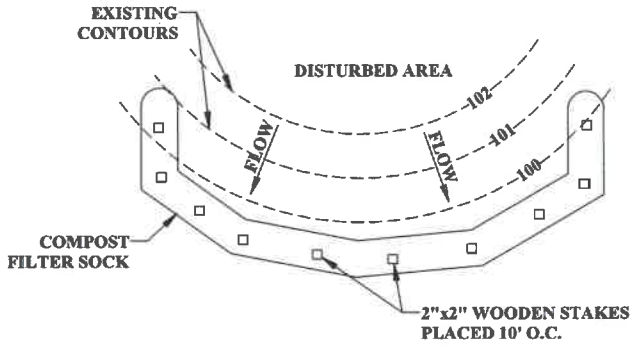
PHASE No.
CONTRACT No.
PROJECT No.
010-10073

CITY OF BRIDGEPORT
 PROPOSED EMERGENCY PUMP CONNECTIONS
 AND WATER LINE UPGRADES PROJECT
 HARRISON COUNTY, WEST VIRGINIA
 PLAN AND PROFILE SHEET

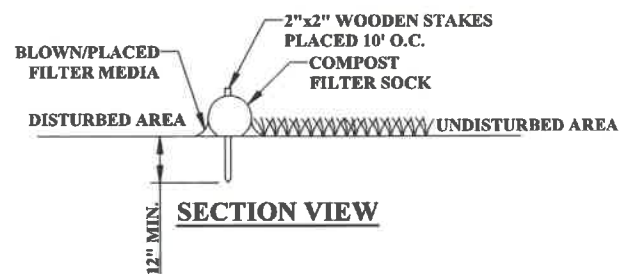
SHEET No.
1



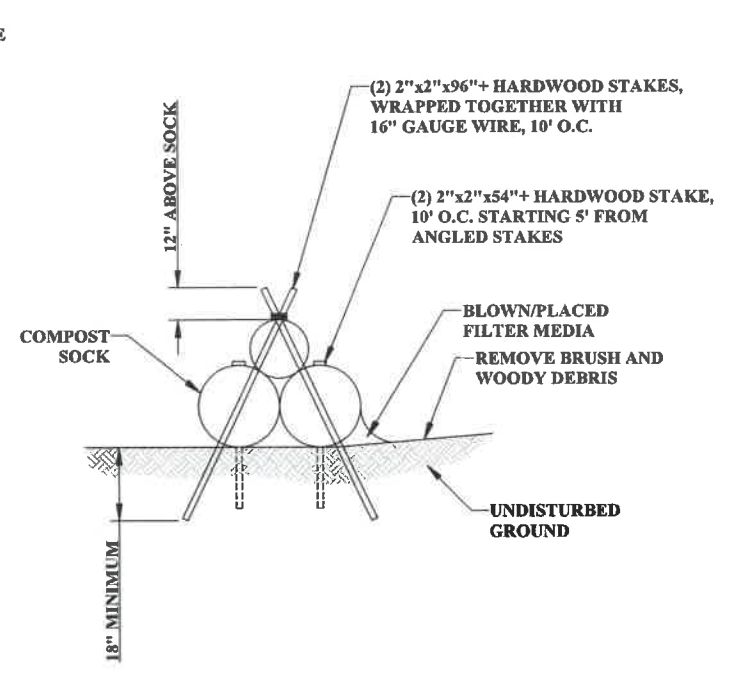
CONNECTION DETAIL



PLAN VIEW



SECTION VIEW



TRIPLE STACKED COMPOST FILTER SOCK DETAIL

COMPOST FILTER SOCK TO BE INSTALLED IN ACCORDANCE WITH FILTREXX MANUFACTURER SPECIFICATIONS, OR AN APPROVED EQUAL AS SHOWN IN THE E&SC PLANS.

COMPOST FILTER SOCK SHALL BE PLACED AT EXISTING LEVEL GRADE. BOTH ENDS OF THE SOCK SHALL BE EXTENDED AT LEAST 8' UP SLOPE AT 45° TO THE MAIN SOCK ALIGNMENT. MAXIMUM SLOPE LENGTH ABOVE ANY DIAMETER SOCK SHALL NOT EXCEED THAT SHOWN ON BELOW TABLE.

TRAFFIC SHALL NOT BE PERMITTED TO CROSS FILTER SOCKS. ACCUMULATED SEDIMENT SHALL BE REMOVED WHEN IT REACHES 1/2 THE ABOVE GROUND HEIGHT OF THE SOCK AND DISPOSED IN THE MANNER DESCRIBED ELSEWHERE IN THE PLAN.

SOCKS SHALL BE INSPECTED PER THE TIME FRAMES FOR ALL E&S DEVICES. DAMAGED SOCKS SHALL BE REPAIRED ACCORDING TO MFR. SPECIFICATIONS OR REPLACED ACCORDING TO MFR. RECOMMENDATIONS.

BIODEGRADABLE FILTER SOCK SHALL BE REPLACED AFTER 6 MONTHS; PHOTODEGRADABLE SOCKS AFTER 1YR. POLYPROPYLENE SOCKS SHALL BE REPLACED ACCORDING TO MFR. RECOMMENDATIONS.

UPON STABILIZATION OF THE AREA TRIBUTARY TO THE SOCK, STAKES SHALL BE REMOVED. THE SOCK MAY BE LEFT IN PLACE AND VEGETATED OR REMOVED. IN THE LATTER CASE THE MESH SHALL BE CUT OPEN AND THE MESH SPREAD AS A SOIL SUPPLEMENT.

REPRODUCED FROM FILTREXX LOW IMPACT DESIGN MANUAL PAGE 324
MAXIMUM SLOPE LENGTH ABOVE SEDIMENT CONTROL IN FEET (METERS)*

SLOPE PERCENT	8" (200mm)	12" (300mm)	18" (450mm)	24" (600mm)	32" (800mm)
	SEDIMENT CONTROL	SEDIMENT CONTROL	SEDIMENT CONTROL	SEDIMENT CONTROL	SEDIMENT CONTROL
2 (OR LESS)	600 (180)	750 (250)	1000 (300)	1300 (400)	1650 (500)
5	400 (120)	500 (150)	550 (165)	650 (200)	750 (225)
10	200 (60)	250 (75)	300 (90)	400 (120)	500 (150)
15	140 (40)	170 (50)	200 (60)	325 (100)	450 (140)
20	100 (30)	125 (38)	140 (42)	260 (80)	400 (120)
25	80 (24)	100 (30)	110 (33)	200 (60)	275 (85)
30	60 (18)	75 (23)	90 (27)	130 (40)	200 (60)
35	60 (18)	75 (23)	80 (24)	115 (35)	150 (45)
40	60 (18)	75 (23)	80 (24)	100 (30)	125 (38)
45	40 (12)	50 (15)	60 (18)	80 (24)	100 (30)
50	40 (12)	50 (15)	55 (17)	65 (20)	75 (23)

**BASED ON A FAILURE POINT OF 36 INCH (0.9 METER) SUPER SILT FENCE (WIRE REINFORCED) AT 1,000 FEET (300 METERS) OF SLOPE, WATERSHED WIDTH EQUIVALENT TO RECEIVING LENGTH OF SEDIMENT CONTROL DEVICE, 1 INCH/24 HOUR (25 MM/24 HR) RAIN EVENT.
**EFFECTIVE HEIGHT OF SEDIMENT CONTROL AFTER INSTALLATION AND WITH CONSTANT HEAD FROM RUNOFF AS DETERMINED BY OHIO STATE UNIVERSITY.

COMPOST SHALL MEET THE FOLLOWING STANDARDS

ORGANIC MATTER CONTENT	80%-100% (DRY WEIGHT BASIS)
ORGANIC PORTION	FIBROUS AND ELONGATED
pH	5.5-8.0
MOISTURE CONTENT	35%-55%
PARTICLE SIZE	98% PASS THROUGH 1" SCREEN
SOLUBLE SALT CONCENTRATION	5.0 ds MAXIMUM

COMPOST FILTER SOCK DETAIL
NOT TO SCALE

ADDENDUM #1

USER: andrew.soyrs
 PLOT DATE/TIME: 9/1/2022 10:35 AM
 LAYOUT Tab: Detail-07
 CAD FILE: R:\010\010-10073 -Additional Water Tank-City of Bridgeport-Drawing\DWG\Design\002-typical-water-details - Revised.dwg

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NO.	BY	DATE	DESCRIPTION
1	AS	9/1/2022	ADDENDUM #1



SCALE: AS NOTED	DATE: 9/2021
DRAWN: P. LANTZ	DATE:
CHECKED:	DATE:
APPROVED:	DATE:
SURVEY DATE:	
SURVEY BY:	
FIELD BOOK No.:	



PHONE (304) 624-4108 FAX (304) 624-7831

PHASE No.	
CONTRACT No.	
PROJECT No.	1
	010-10073

CITY OF BRIDGEPORT
 PROPOSED EMERGENCY PUMP CONNECTIONS
 AND WATER LINE UPGRADES PROJECT
 HARRISON COUNTY, WEST VIRGINIA
 SEDIMENT & EROSION CONTROL DETAILS

SHEET No.
DET-7