



Department of Administration
Purchasing Division
2019 Washington Street East
Post Office Box 50130
Charleston, WV 25305-0130

State of West Virginia Purchase Order

Order Date: 09-16-2022

CORRECT ORDER NUMBER MUST APPEAR
ON ALL PACKAGES, INVOICES, AND
SHIPPING PAPERS. QUESTIONS
CONCERNING THIS ORDER SHOULD BE
DIRECTED TO THE DEPARTMENT
CONTACT.

Order Number:	CPO 0810 0804 DMT2300000001 1	Procurement Folder:	1072251
Document Name:	BR 6.5 - South End	Reason for Modification:	
Document Description:	Construction-BR 6.5 South End Partial Replacement Timber		
Procurement Type:	Central Purchase Order		
Buyer Name:	David H Pauline		
Telephone:	304-558-0067		
Email:	david.h.pauline@wv.gov		
Shipping Method:	Best Way	Effective Start Date:	
Free on Board:	FOB Dest, Freight Prepaid	Effective End Date:	

VENDOR	DEPARTMENT CONTACT																				
Vendor Customer Code: VS0000017686 GREGORI CONSTRUCTION INC 736 EKASTOWN RD SARVER PA 16055 US Vendor Contact Phone: 7243531322 Extension: Discount Details: <table><thead><tr><th></th><th>Discount Allowed</th><th>Discount Percentage</th><th>Discount Days</th></tr></thead><tbody><tr><td>#1</td><td>No</td><td>0.0000</td><td>0</td></tr><tr><td>#2</td><td>Not Entered</td><td></td><td></td></tr><tr><td>#3</td><td>Not Entered</td><td></td><td></td></tr><tr><td>#4</td><td>Not Entered</td><td></td><td></td></tr></tbody></table>		Discount Allowed	Discount Percentage	Discount Days	#1	No	0.0000	0	#2	Not Entered			#3	Not Entered			#4	Not Entered			Requestor Name: Lucinda K Butler Requestor Phone: (304) 538-2305 Requestor Email: cindy.k.butler@wv.gov 23 FILE LOCATION _____
	Discount Allowed	Discount Percentage	Discount Days																		
#1	No	0.0000	0																		
#2	Not Entered																				
#3	Not Entered																				
#4	Not Entered																				

INVOICE TO	SHIP TO
STATE RAIL AUTHORITY 120 WATER PLANT DR MOOREFIELD WV 26836 US	STATE RAIL AUTHORITY (DBA) SOUTH BRANCH VALLEY RAILROAD 120 WATER PLANT DR MOOREFIELD WV 26836 US

9-21-22 Box

Total Order Amount: \$1,779,693.00

Purchasing Division's File Copy

ENTERED

PURCHASING DIVISION AUTHORIZATION DATE: <i>9/16/22</i> ELECTRONIC SIGNATURE ON FILE	ATTORNEY GENERAL APPROVAL AS TO FORM DATE: <i>9/16/22</i> ELECTRONIC SIGNATURE ON FILE	ENCUMBRANCE CERTIFICATION DATE: <i>9/16/22</i> ELECTRONIC SIGNATURE ON FILE
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9/27/2022

Extended Description:

Construction Contract
(South Branch Valley Railroad)

The Vendor, Gregori Construction, Inc., agrees to enter into this one-time construction contract with the Agency WV Division of Multimodal Transportation Facilities, to provide all labor, material, tools, equipment, supplies and supervision necessary to complete the replacement of the south end of BR 6.5 on the South Branch Valley Railroad, per the bid requirements, terms, conditions, specifications, Addendum No. 1 issued 08/02/2022, Addendum No.2 issued 08/09/2022, Addendum No. 3 issued 08/11/2022, Addendum No. 4 issued 08/16/2022, Addendum No. 5 issued 08/22/2022, Addendum No. 6 issued 08/23/2022, and the vendor's bid dated 09/01/2022 all incorporated herein by reference and made apart of hereof. See attached.

Line	Commodity Code	Quantity	Unit	Unit Price	Total Price
1	72141603	1.00000	EA	1779693.000000	1779693.00
Service From	Service To	Manufacturer	Model No		

Commodity Line Description: Replacement of Bridge 6.5 - South End

Extended Description:

Replacement of BR 6.5 - South End

GENERAL TERMS AND CONDITIONS:

1. CONTRACTUAL AGREEMENT: Issuance of an Award Document signed by the Purchasing Division Director, or his designee, and approved as to form by the Attorney General's office constitutes acceptance by the State of this Contract made by and between the State of West Virginia and the Vendor. Vendor's signature on its bid, or on the Contract if the Contract is not the result of a bid solicitation, signifies Vendor's agreement to be bound by and accept the terms and conditions contained in this Contract.

2. DEFINITIONS: As used in this Solicitation/Contract, the following terms shall have the meanings attributed to them below. Additional definitions may be found in the specifications included with this Solicitation/Contract.

2.1. "Agency" or "Agencies" means the agency, board, commission, or other entity of the State of West Virginia that is identified on the first page of the Solicitation or any other public entity seeking to procure goods or services under this Contract.

2.2. "Bid" or "Proposal" means the vendors submitted response to this solicitation.

2.3. "Contract" means the binding agreement that is entered into between the State and the Vendor to provide the goods or services requested in the Solicitation.

2.4. "Director" means the Director of the West Virginia Department of Administration, Purchasing Division.

2.5. "Purchasing Division" means the West Virginia Department of Administration, Purchasing Division.

2.6. "Award Document" means the document signed by the Agency and the Purchasing Division, and approved as to form by the Attorney General, that identifies the Vendor as the contract holder.

2.7. "Solicitation" means the official notice of an opportunity to supply the State with goods or services that is published by the Purchasing Division.

2.8. "State" means the State of West Virginia and/or any of its agencies, commissions, boards, etc. as context requires.

2.9. "Vendor" or "Vendors" means any entity submitting a bid in response to the Solicitation, the entity that has been selected as the lowest responsible bidder, or the entity that has been awarded the Contract as context requires.

3. CONTRACT TERM; RENEWAL; EXTENSION: The term of this Contract shall be determined in accordance with the category that has been identified as applicable to this Contract below:

☐ **Term Contract**

Initial Contract Term: The Initial Contract Term will be for a period of _____. The Initial Contract Term becomes effective on the effective start date listed on the first page of this Contract, identified as the State of West Virginia contract cover page containing the signatures of the Purchasing Division, Attorney General, and Encumbrance clerk (or another page identified as _____), and the Initial Contract Term ends on the effective end date also shown on the first page of this Contract.

Renewal Term: This Contract may be renewed upon the mutual written consent of the Agency, and the Vendor, with approval of the Purchasing Division and the Attorney General's office (Attorney General approval is as to form only). Any request for renewal should be delivered to the Agency and then submitted to the Purchasing Division thirty (30) days prior to the expiration date of the initial contract term or appropriate renewal term. A Contract renewal shall be in accordance with the terms and conditions of the original contract. Unless otherwise specified below, renewal of this Contract is limited to _____ successive one (1) year periods or multiple renewal periods of less than one year, provided that the multiple renewal periods do not exceed the total number of months available in all renewal years combined. Automatic renewal of this Contract is prohibited. Renewals must be approved by the Vendor, Agency, Purchasing Division and Attorney General's office (Attorney General approval is as to form only)

☐ **Alternate Renewal Term** – This contract may be renewed for _____ successive _____ year periods or shorter periods provided that they do not exceed the total number of months contained in all available renewals. Automatic renewal of this Contract is prohibited. Renewals must be approved by the Vendor, Agency, Purchasing Division and Attorney General's office (Attorney General approval is as to form only)

Delivery Order Limitations: In the event that this contract permits delivery orders, a delivery order may only be issued during the time this Contract is in effect. Any delivery order issued within one year of the expiration of this Contract shall be effective for one year from the date the delivery order is issued. No delivery order may be extended beyond one year after this Contract has expired.

☒ **Fixed Period Contract:** This Contract becomes effective upon Vendor's receipt of the notice to proceed and must be completed within three hundred and sixty-five (365) calendar days.

☐ **Fixed Period Contract with Renewals:** This Contract becomes effective upon Vendor's receipt of the notice to proceed and part of the Contract more fully described in the attached specifications must be completed within _____ days. Upon completion of the work covered by the preceding sentence, the vendor agrees that:

☐ the contract will continue for _____ years;

☐ the contract may be renewed for _____ successive _____ year periods or shorter periods provided that they do not exceed the total number of months contained in all available renewals. Automatic renewal of this Contract is prohibited. Renewals must be approved by the Vendor, Agency, Purchasing Division and Attorney General's Office (Attorney General approval is as to form only).

☐ **One-Time Purchase:** The term of this Contract shall run from the issuance of the Award Document until all of the goods contracted for have been delivered, but in no event will this Contract extend for more than one fiscal year.

☐ **Construction/Project Oversight:** This Contract becomes effective on the effective start date listed on the first page of this Contract, identified as the State of West Virginia contract cover page containing the signatures of the Purchasing Division, Attorney General, and Encumbrance clerk (or another page identified as _____), and continues until the project for which the vendor is providing oversight is complete.

☐ **Other:** Contract Term specified in _____

4. AUTHORITY TO PROCEED: Vendor is authorized to begin performance of this contract on the date of encumbrance listed on the front page of the Award Document unless either the box for "Fixed Period Contract" or "Fixed Period Contract with Renewals" has been checked in Section 3 above. If either "Fixed Period Contract" or "Fixed Period Contract with Renewals" has been checked, Vendor must not begin work until it receives a separate notice to proceed from the State. The notice to proceed will then be incorporated into the Contract via change order to memorialize the official date that work commenced.

5. QUANTITIES: The quantities required under this Contract shall be determined in accordance with the category that has been identified as applicable to this Contract below.

☐ **Open End Contract:** Quantities listed in this Solicitation/Award Document are approximations only, based on estimates supplied by the Agency. It is understood and agreed that the Contract shall cover the quantities actually ordered for delivery during the term of the Contract, whether more or less than the quantities shown.

☐ **Service:** The scope of the service to be provided will be more clearly defined in the specifications included herewith.

☒ **Combined Service and Goods:** The scope of the service and deliverable goods to be provided will be more clearly defined in the specifications included herewith.

☐ **One-Time Purchase:** This Contract is for the purchase of a set quantity of goods that are identified in the specifications included herewith. Once those items have been delivered, no additional goods may be procured under this Contract without an appropriate change order approved by the Vendor, Agency, Purchasing Division, and Attorney General's office.

6. EMERGENCY PURCHASES: The Purchasing Division Director may authorize the Agency to purchase goods or services in the open market that Vendor would otherwise provide under this Contract if those goods or services are for immediate or expedited delivery in an emergency. Emergencies shall include, but are not limited to, delays in transportation or an unanticipated increase in the volume of work. An emergency purchase in the open market, approved by the Purchasing Division Director, shall not constitute of breach of this Contract and shall not entitle the Vendor to any form of compensation or damages. This provision does not excuse the State from fulfilling its obligations under a One-Time Purchase contract.

7. REQUIRED DOCUMENTS: All of the items checked in this section must be provided to the Purchasing Division by the Vendor as specified:

☒ **BID BOND (Construction Only):** Pursuant to the requirements contained in W. Va. Code § 5-22-1(c), All Vendors submitting a bid on a construction project shall furnish a valid bid bond in the amount of five percent (5%) of the total amount of the bid protecting the State of West Virginia. The bid bond must be submitted with the bid.

☒ **PERFORMANCE BOND:** The apparent successful Vendor shall provide a performance bond in the amount of 100% of the contract. The performance bond must be received by the Purchasing Division prior to Contract award.

☒ **LABOR/MATERIAL PAYMENT BOND:** The apparent successful Vendor shall provide a labor/material payment bond in the amount of 100% of the Contract value. The labor/material payment bond must be delivered to the Purchasing Division prior to Contract award.

In lieu of the Bid Bond, Performance Bond, and Labor/Material Payment Bond, the Vendor may provide certified checks, cashier's checks, or irrevocable letters of credit. Any certified check, cashier's check, or irrevocable letter of credit provided in lieu of a bond must be of the same amount and delivered on the same schedule as the bond it replaces. A letter of credit submitted in lieu of a performance and labor/material payment bond will only be allowed for projects under \$100,000. Personal or business checks are not acceptable. Notwithstanding the foregoing, West Virginia Code § 5-22-1 (d) mandates that a vendor provide a performance and labor/material payment bond for construction projects. Accordingly, substitutions for the performance and labor/material payment bonds for construction projects is not permitted.

☐ **MAINTENANCE BOND:** The apparent successful Vendor shall provide a two (2) year maintenance bond covering the roofing system. The maintenance bond must be issued and delivered to the Purchasing Division prior to Contract award.

☐ **LICENSE(S) / CERTIFICATIONS / PERMITS:** In addition to anything required under the Section of the General Terms and Conditions entitled Licensing, the apparent successful Vendor shall furnish proof of the following licenses, certifications, and/or permits upon request and in a form acceptable to the State. The request may be prior to or after contract award at the State's sole discretion.

☐☐☐☐

The apparent successful Vendor shall also furnish proof of any additional licenses or certifications contained in the specifications regardless of whether or not that requirement is listed above.

8. INSURANCE: The apparent successful Vendor shall furnish proof of the insurance identified by a checkmark below and must include the State as an additional insured on each policy prior to Contract award. The insurance coverages identified below must be maintained throughout the life of this contract. Thirty (30) days prior to the expiration of the insurance policies, Vendor shall provide the Agency with proof that the insurance mandated herein has been continued. Vendor must also provide Agency with immediate notice of any changes in its insurance policies, including but not limited to, policy cancelation, policy reduction, or change in insurers. The apparent successful Vendor shall also furnish proof of any additional insurance requirements contained in the specifications prior to Contract award regardless of whether that insurance requirement is listed in this section.

Vendor must maintain:

☒ **Commercial General Liability Insurance** in at least an amount of: \$1,000,000 or more per occurrence.

☒ **Automobile Liability Insurance** in at least an amount of: \$1,000,000 or more per occurrence.

☐ **Professional/Malpractice/Errors and Omission Insurance** in at least an amount of: _____ per occurrence. Notwithstanding the forgoing, Vendor's are not required to list the State as an additional insured for this type of policy.

☐ **Commercial Crime and Third Party Fidelity Insurance** in an amount of: _____ per occurrence.

☐ **Cyber Liability Insurance** in an amount of: _____ per occurrence.

☐ **Builders Risk Insurance** in an amount equal to 100% of the amount of the Contract.

☐ **Pollution Insurance** in an amount of: _____ per occurrence.

☐ **Aircraft Liability** in an amount of: _____ per occurrence.

☐ *****Certificate Holder to Read: WV State Rail Authority
120 Water Plant Rd
Moorefield, WV 26836

☐

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☐

Notwithstanding anything contained in this section to the contrary, the Director of the Purchasing Division reserves the right to waive the requirement that the State be named as an additional insured on one or more of the Vendor's insurance policies if the Director finds that doing so is in the State's best interest.

9. WORKERS' COMPENSATION INSURANCE: Vendor shall comply with laws relating to workers compensation, shall maintain workers' compensation insurance when required, and shall furnish proof of workers' compensation insurance upon request.

10. [Reserved]

11. LIQUIDATED DAMAGES: This clause shall in no way be considered exclusive and shall not limit the State or Agency's right to pursue any other available remedy. Vendor shall pay liquidated damages in the amount specified below or as described in the specifications:

☒ one thousand (\$1,000) for every calendar day beyond three-hundred sixty-five (365) days.

☐ Liquidated Damages Contained in the Specifications.

☐ Liquidated Damages Are Not Included in this Contract.

12. ACCEPTANCE: Vendor's signature on its bid, or on the certification and signature page, constitutes an offer to the State that cannot be unilaterally withdrawn, signifies that the product or service proposed by vendor meets the mandatory requirements contained in the Solicitation for that product or service, unless otherwise indicated, and signifies acceptance of the terms and conditions contained in the Solicitation unless otherwise indicated.

13. PRICING: The pricing set forth herein is firm for the life of the Contract, unless specified elsewhere within this Solicitation/Contract by the State. A Vendor's inclusion of price adjustment provisions in its bid, without an express authorization from the State in the Solicitation to do so, may result in bid disqualification. Notwithstanding the foregoing, Vendor must extend any publicly advertised sale price to the State and invoice at the lower of the contract price or the publicly advertised sale price.

14. PAYMENT IN ARREARS: Payments for goods/services will be made in arrears only upon receipt of a proper invoice, detailing the goods/services provided or receipt of the goods/services, whichever is later. Notwithstanding the foregoing, payments for software maintenance, licenses, or subscriptions may be paid annually in advance.

15. PAYMENT METHODS: Vendor must accept payment by electronic funds transfer and P-Card. (The State of West Virginia's Purchasing Card program, administered under contract by a banking institution, processes payment for goods and services through state designated credit cards.)

16. TAXES: The Vendor shall pay any applicable sales, use, personal property or any other taxes arising out of this Contract and the transactions contemplated thereby. The State of West Virginia is exempt from federal and state taxes and will not pay or reimburse such taxes.

17. ADDITIONAL FEES: Vendor is not permitted to charge additional fees or assess additional charges that were not either expressly provided for in the solicitation published by the State of West Virginia, included in the Contract, or included in the unit price or lump sum bid amount that Vendor is required by the solicitation to provide. Including such fees or charges as notes to the solicitation may result in rejection of vendor's bid. Requesting such fees or charges be paid after the contract has been awarded may result in cancellation of the contract.

18. FUNDING: This Contract shall continue for the term stated herein, contingent upon funds being appropriated by the Legislature or otherwise being made available. In the event funds are not appropriated or otherwise made available, this Contract becomes void and of no effect beginning on July 1 of the fiscal year for which funding has not been appropriated or otherwise made available. If that occurs, the State may notify the Vendor that an alternative source of funding has been obtained and thereby avoid the automatic termination. Non-appropriation or non-funding shall not be considered an event of default.

19. CANCELLATION: The Purchasing Division Director reserves the right to cancel this Contract immediately upon written notice to the vendor if the materials or workmanship supplied do not conform to the specifications contained in the Contract. The Purchasing Division Director may also cancel any purchase or Contract upon 30 days written notice to the Vendor in accordance with West Virginia Code of State Rules § 148-1-5.2.b.

20. TIME: Time is of the essence regarding all matters of time and performance in this Contract.

21. APPLICABLE LAW: This Contract is governed by and interpreted under West Virginia law without giving effect to its choice of law principles. Any information provided in specification manuals, or any other source, verbal or written, which contradicts or violates the West Virginia Constitution, West Virginia Code, or West Virginia Code of State Rules is void and of no effect.

22. COMPLIANCE WITH LAWS: Vendor shall comply with all applicable federal, state, and local laws, regulations and ordinances. By submitting a bid, Vendor acknowledges that it has reviewed, understands, and will comply with all applicable laws, regulations, and ordinances.

SUBCONTRACTOR COMPLIANCE: Vendor shall notify all subcontractors providing commodities or services related to this Contract that as subcontractors, they too are required to comply with all applicable laws, regulations, and ordinances. Notification under this provision must occur prior to the performance of any work under the contract by the subcontractor.

23. ARBITRATION: Any references made to arbitration contained in this Contract, Vendor's bid, or in any American Institute of Architects documents pertaining to this Contract are hereby deleted, void, and of no effect.

24. MODIFICATIONS: This writing is the parties' final expression of intent. Notwithstanding anything contained in this Contract to the contrary no modification of this Contract shall be binding without mutual written consent of the Agency, and the Vendor, with approval of the Purchasing Division and the Attorney General's office (Attorney General approval is as to form only). Any change to existing contracts that adds work or changes contract cost, and were not included in the original contract, must be approved by the Purchasing Division and the Attorney General's Office (as to form) prior to the implementation of the change or commencement of work affected by the change.

25. WAIVER: The failure of either party to insist upon a strict performance of any of the terms or provision of this Contract, or to exercise any option, right, or remedy herein contained, shall not be construed as a waiver or a relinquishment for the future of such term, provision, option, right, or remedy, but the same shall continue in full force and effect. Any waiver must be expressly stated in writing and signed by the waiving party.

26. SUBSEQUENT FORMS: The terms and conditions contained in this Contract shall supersede any and all subsequent terms and conditions which may appear on any form documents submitted by Vendor to the Agency or Purchasing Division such as price lists, order forms, invoices, sales agreements, or maintenance agreements, and includes internet websites or other electronic documents. Acceptance or use of Vendor's forms does not constitute acceptance of the terms and conditions contained thereon.

27. ASSIGNMENT: Neither this Contract nor any monies due, or to become due hereunder, may be assigned by the Vendor without the express written consent of the Agency, the Purchasing Division, the Attorney General's office (as to form only), and any other government agency or office that may be required to approve such assignments.

28. WARRANTY: The Vendor expressly warrants that the goods and/or services covered by this Contract will: (a) conform to the specifications, drawings, samples, or other description furnished or specified by the Agency; (b) be merchantable and fit for the purpose intended; and (c) be free from defect in material and workmanship.

29. STATE EMPLOYEES: State employees are not permitted to utilize this Contract for personal use and the Vendor is prohibited from permitting or facilitating the same.

30. PRIVACY, SECURITY, AND CONFIDENTIALITY: The Vendor agrees that it will not disclose to anyone, directly or indirectly, any such personally identifiable information or other confidential information gained from the Agency, unless the individual who is the subject of the information consents to the disclosure in writing or the disclosure is made pursuant to the Agency's policies, procedures, and rules. Vendor further agrees to comply with the Confidentiality Policies and Information Security Accountability Requirements, set forth in <http://www.state.wv.us/admin/purchase/privacy/default.html>.

31. YOUR SUBMISSION IS A PUBLIC DOCUMENT: Vendor's entire response to the Solicitation and the resulting Contract are public documents. As public documents, they will be disclosed to the public following the bid/proposal opening or award of the contract, as required by the competitive bidding laws of West Virginia Code §§ 5A-3-1 et seq., 5-22-1 et seq., and 5G-1-1 et seq. and the Freedom of Information Act West Virginia Code §§ 29B-1-1 et seq.

DO NOT SUBMIT MATERIAL YOU CONSIDER TO BE CONFIDENTIAL, A TRADE SECRET, OR OTHERWISE NOT SUBJECT TO PUBLIC DISCLOSURE.

Submission of any bid, proposal, or other document to the Purchasing Division constitutes your explicit consent to the subsequent public disclosure of the bid, proposal, or document. The Purchasing Division will disclose any document labeled "confidential," "proprietary," "trade secret," "private," or labeled with any other claim against public disclosure of the documents, to include any "trade secrets" as defined by West Virginia Code § 47-22-1 et seq. All submissions are subject to public disclosure without notice.

32. LICENSING: In accordance with West Virginia Code of State Rules § 148-1-6.1.e, Vendor must be licensed and in good standing in accordance with any and all state and local laws and requirements by any state or local agency of West Virginia, including, but not limited to, the West Virginia Secretary of State's Office, the West Virginia Tax Department, West Virginia Insurance Commission, or any other state agency or political subdivision. Obligations related to political subdivisions may include, but are not limited to, business licensing, business and occupation taxes, inspection compliance, permitting, etc. Upon request, the Vendor must provide all necessary releases to obtain information to enable the Purchasing Division Director or the Agency to verify that the Vendor is licensed and in good standing with the above entities.

SUBCONTRACTOR COMPLIANCE: Vendor shall notify all subcontractors providing commodities or services related to this Contract that as subcontractors, they too are required to be licensed, in good standing, and up-to-date on all state and local obligations as described in this section. Obligations related to political subdivisions may include, but are not limited to, business licensing, business and occupation taxes, inspection compliance, permitting, etc. Notification under this provision must occur prior to the performance of any work under the contract by the subcontractor.

33. ANTITRUST: In submitting a bid to, signing a contract with, or accepting a Award Document from any agency of the State of West Virginia, the Vendor agrees to convey, sell, assign, or transfer to the State of West Virginia all rights, title, and interest in and to all causes of action it may now or hereafter acquire under the antitrust laws of the United States and the State of West Virginia for price fixing and/or unreasonable restraints of trade relating to the particular commodities or services purchased or acquired by the State of West Virginia. Such assignment shall be made and become effective at the time the purchasing agency tenders the initial payment to Vendor.

34. VENDOR CERTIFICATIONS: By signing its bid or entering into this Contract, Vendor certifies (1) that its bid or offer was made without prior understanding, agreement, or connection with any corporation, firm, limited liability company, partnership, person or entity submitting a bid or offer for the same material, supplies, equipment or services; (2) that its bid or offer is in all respects fair and without collusion or fraud; (3) that this Contract is accepted or entered into without any prior understanding, agreement, or connection to any other entity that could be considered a violation of law; and (4) that it has reviewed this Solicitation in its entirety; understands the requirements, terms and conditions, and other information contained herein.

Vendor's signature on its bid or offer also affirms that neither it nor its representatives have any interest, nor shall acquire any interest, direct or indirect, which would compromise the performance of its services hereunder. Any such interests shall be promptly presented in detail to the Agency. The individual signing this bid or offer on behalf of Vendor certifies that he or she is authorized by the Vendor to execute this bid or offer or any documents related thereto on Vendor's behalf; that he or she is authorized to bind the Vendor in a contractual relationship; and that, to the best of his or her knowledge, the Vendor has properly registered with any State agency that may require registration.

35. VENDOR RELATIONSHIP: The relationship of the Vendor to the State shall be that of an independent contractor and no principal-agent relationship or employer-employee relationship is contemplated or created by this Contract. The Vendor as an independent contractor is solely liable for the acts and omissions of its employees and agents. Vendor shall be responsible for selecting, supervising, and compensating any and all individuals employed pursuant to the terms of this Solicitation and resulting contract. Neither the Vendor, nor any employees or subcontractors of the Vendor, shall be deemed to be employees of the State for any purpose whatsoever. Vendor shall be exclusively responsible for payment of employees and contractors for all wages and salaries, taxes, withholding payments, penalties, fees, fringe benefits, professional liability insurance premiums, contributions to insurance and pension, or other deferred compensation plans, including but not limited to, Workers' Compensation and Social Security obligations, licensing fees, etc. and the filing of all necessary documents, forms, and returns pertinent to all of the foregoing.

Vendor shall hold harmless the State, and shall provide the State and Agency with a defense against any and all claims including, but not limited to, the foregoing payments, withholdings, contributions, taxes, Social Security taxes, and employer income tax returns.

36. INDEMNIFICATION: The Vendor agrees to indemnify, defend, and hold harmless the State and the Agency, their officers, and employees from and against: (1) Any claims or losses for services rendered by any subcontractor, person, or firm performing or supplying services, materials, or supplies in connection with the performance of the Contract; (2) Any claims or losses resulting to any person or entity injured or damaged by the Vendor, its officers, employees, or subcontractors by the publication, translation, reproduction, delivery, performance, use, or disposition of any data used under the Contract in a manner not authorized by the Contract, or by Federal or State statutes or regulations; and (3) Any failure of the Vendor, its officers, employees, or subcontractors to observe State and Federal laws including, but not limited to, labor and wage and hour laws.

37. NO DEBT CERTIFICATION: In accordance with West Virginia Code §§ 5A-3-10a and 5-22-1(i), the State is prohibited from awarding a contract to any bidder that owes a debt to the State or a political subdivision of the State. By submitting a bid, or entering into a contract with the State, Vendor is affirming that (1) for construction contracts, the Vendor is not in default on any monetary obligation owed to the state or a political subdivision of the state, and (2) for all other contracts, neither the Vendor nor any related party owe a debt as defined above, and neither the Vendor nor any related party are in employer default as defined in the statute cited above unless the debt or employer default is permitted under the statute.

38. CONFLICT OF INTEREST: Vendor, its officers or members or employees, shall not presently have or acquire an interest, direct or indirect, which would conflict with or compromise the performance of its obligations hereunder. Vendor shall periodically inquire of its officers, members and employees to ensure that a conflict of interest does not arise. Any conflict of interest discovered shall be promptly presented in detail to the Agency.

39. REPORTS: Vendor shall provide the Agency and/or the Purchasing Division with the following reports identified by a checked box below:

☐ Such reports as the Agency and/or the Purchasing Division may request. Requested reports may include, but are not limited to, quantities purchased, agencies utilizing the contract, total contract expenditures by agency, etc.

☐ Quarterly reports detailing the total quantity of purchases in units and dollars, along with a listing of purchases by agency. Quarterly reports should be delivered to the Purchasing Division via email at purchasing.division@wv.gov.

40. BACKGROUND CHECK: In accordance with W. Va. Code § 15-2D-3, the State reserves the right to prohibit a service provider's employees from accessing sensitive or critical information or to be present at the Capitol complex based upon results addressed from a criminal background check. Service providers should contact the West Virginia Division of Protective Services by phone at (304) 558-9911 for more information.

41. PREFERENCE FOR USE OF DOMESTIC STEEL PRODUCTS: Except when authorized by the Director of the Purchasing Division pursuant to W. Va. Code § 5A-3-56, no contractor may use or supply steel products for a State Contract Project other than those steel products made in the United States. A contractor who uses steel products in violation of this section may be subject to civil penalties pursuant to W. Va. Code § 5A-3-56. As used in this section:

- a. "State Contract Project" means any erection or construction of, or any addition to, alteration of or other improvement to any building or structure, including, but not limited to, roads or highways, or the installation of any heating or cooling or ventilating plants or other equipment, or the supply of and materials for such projects, pursuant to a contract with the State of West Virginia for which bids were solicited on or after June 6, 2001.
- b. "Steel Products" means products rolled, formed, shaped, drawn, extruded, forged, cast, fabricated or otherwise similarly processed, or processed by a combination of two or more or such operations, from steel made by the open hearth, basic oxygen, electric furnace, Bessemer or other steel making process.
- c. The Purchasing Division Director may, in writing, authorize the use of foreign steel products if:
 1. The cost for each contract item used does not exceed one tenth of one percent (.1%) of the total contract cost or two thousand five hundred dollars (\$2,500.00), whichever is greater. For the purposes of this section, the cost is the value of the steel product as delivered to the project; or
 2. The Director of the Purchasing Division determines that specified steel materials are not produced in the United States in sufficient quantity or otherwise are not reasonably available to meet contract requirements.

42. PREFERENCE FOR USE OF DOMESTIC ALUMINUM, GLASS, AND STEEL: In Accordance with W. Va. Code § 5-19-1 et seq., and W. Va. CSR § 148-10-1 et seq., for every contract or subcontract, subject to the limitations contained herein, for the construction, reconstruction, alteration, repair, improvement or maintenance of public works or for the purchase of any item of machinery or equipment to be used at sites of public works, only domestic aluminum, glass or steel products shall be supplied unless the spending officer determines, in writing, after the receipt of offers or bids, (1) that the cost of domestic aluminum, glass or steel products is unreasonable or inconsistent with the public interest of the State of West Virginia, (2) that domestic aluminum, glass or steel products are not produced in sufficient quantities to meet the contract requirements, or (3) the available domestic aluminum, glass, or steel do not meet the contract specifications. This provision only applies to public works contracts awarded in an amount more than fifty thousand dollars (\$50,000) or public works contracts that require more than ten thousand pounds of steel products.

The cost of domestic aluminum, glass, or steel products may be unreasonable if the cost is more than twenty percent (20%) of the bid or offered price for foreign made aluminum, glass, or steel products. If the domestic aluminum, glass or steel products to be supplied or produced in a "substantial labor surplus area", as defined by the United States Department of Labor, the cost of domestic aluminum, glass, or steel products may be unreasonable if the cost is more than thirty percent (30%) of the bid or offered price for foreign made aluminum, glass, or steel

Revised 07/01/2022

products. This preference shall be applied to an item of machinery or equipment, as indicated above, when the item is a single unit of equipment or machinery manufactured primarily of aluminum, glass or steel, is part of a public works contract and has the sole purpose or of being a permanent part of a single public works project. This provision does not apply to equipment or machinery purchased by a spending unit for use by that spending unit and not as part of a single public works project.

All bids and offers including domestic aluminum, glass or steel products that exceed bid or offer prices including foreign aluminum, glass or steel products after application of the preferences provided in this provision may be reduced to a price equal to or lower than the lowest bid or offer price for foreign aluminum, glass or steel products plus the applicable preference. If the reduced bid or offer prices are made in writing and supersede the prior bid or offer prices, all bids or offers, including the reduced bid or offer prices, will be reevaluated in accordance with this rule.

43. INTERESTED PARTY SUPPLEMENTAL DISCLOSURE: W. Va. Code § 6D-1-2 requires that for contracts with an actual or estimated value of at least \$1 million, the Vendor must submit to the Agency a disclosure of interested parties prior to beginning work under this Contract. Additionally, the Vendor must submit a supplemental disclosure of interested parties reflecting any new or differing interested parties to the contract, which were not included in the original pre-work interested party disclosure, within 30 days following the completion or termination of the contract. A copy of that form is included with this solicitation or can be obtained from the WV Ethics Commission. This requirement does not apply to publicly traded companies listed on a national or international stock exchange. A more detailed definition of interested parties can be obtained from the form referenced above.

44. PROHIBITION AGAINST USED OR REFURBISHED: Unless expressly permitted in the solicitation published by the State, Vendor must provide new, unused commodities, and is prohibited from supplying used or refurbished commodities, in fulfilling its responsibilities under this Contract.

45. VOID CONTRACT CLAUSES – This Contract is subject to the provisions of West Virginia Code § 5A-3-62, which automatically voids certain contract clauses that violate State law.

46. ISRAEL BOYCOTT: Bidder understands and agrees that, pursuant to W. Va. Code § 5A-3-63, it is prohibited from engaging in a boycott of Israel during the term of this contract.

ADDITIONAL TERMS AND CONDITIONS (Construction Contracts Only)

1. CONTRACTOR'S LICENSE: Until June 15, 2021, West Virginia Code § 21-11-2, and after that date, § 30-42-2, requires that all persons desiring to perform contracting work in this state be licensed. The West Virginia Contractors Licensing Board is empowered to issue the contractor's license. Applications for a contractor's license may be made by contacting the West Virginia Contractor Licensing Board.

The apparent successful Vendor must furnish a copy of its contractor's license prior to the issuance of a contract award document.

2. DRUG-FREE WORKPLACE AFFIDAVIT: W. Va. Code § 21-1D-5 provides that any solicitation for a public improvement contract requires each Vendor that submits a bid for the work to submit an affidavit that the Vendor has a written plan for a drug-free workplace policy. If the affidavit is not submitted with the bid submission, the Purchasing Division shall promptly request by telephone and electronic mail that the low bidder and second low bidder provide the affidavit within one business day of the request. Failure to submit the affidavit within one business day of receiving the request shall result in disqualification of the bid. To comply with this law, Vendor should complete the enclosed drug-free workplace affidavit and submit the same with its bid. Failure to submit the signed and notarized drugfree workplace affidavit or a similar affidavit that fully complies with the requirements of the applicable code, within one business day of being requested to do so shall result in disqualification of Vendor's bid. Pursuant to W. Va. Code 21-1D-2(b) and (k), this provision does not apply to public improvement contracts the value of which is \$100,000 or less or temporary or emergency repairs.

2.1. DRUG-FREE WORKPLACE POLICY: Pursuant to W. Va. Code § 21-1D-4, Vendor and its subcontractors must implement and maintain a written drug-free workplace policy that complies with said article. The awarding public authority shall cancel this contract if: (1) Vendor fails to implement and maintain a written drug-free workplace policy described in the preceding paragraph, (2) Vendor fails to provide information regarding implementation of its drug-free workplace policy at the request of the public authority; or (3) Vendor provides to the public authority false information regarding the contractor's drug-free workplace policy.

Pursuant to W. Va. Code 21-1D-2(b) and (k), this provision does not apply to public improvement contracts the value of which is \$100,000 or less or temporary or emergency repairs.

3. DRUG FREE WORKPLACE REPORT: Pursuant to W. Va. Code § 21-1D-7b, no less than once per year, or upon completion of the project, every contractor shall provide a certified report to the public authority which let the contract. For contracts over \$25,000, the public authority shall be the West Virginia Purchasing Division. For contracts of \$25,000 or less, the public authority shall be the agency issuing the contract. The report shall include:

(1) Information to show that the education and training service to the requirements of West Virginia Code § 21-1D-5 was provided;

(2) The name of the laboratory certified by the United States Department of Health and Human Services or its successor that performs the drug tests;

(3) The average number of employees in connection with the construction on the public improvement;

(4) Drug test results for the following categories including the number of positive tests and the number of negative tests: (A) Pre-employment and new hires; (B) Reasonable suspicion; (C) Post-accident; and (D) Random.

Vendor should utilize the attached Certified Drug Free Workplace Report Coversheet when submitting the report required hereunder. Pursuant to W. Va. Code 21-1D-2(b) and (k), this provision does not apply to public improvement contracts the value of which is \$100,000 or less or temporary or emergency repairs.

4. AIA DOCUMENTS: All construction contracts that will be completed in conjunction with architectural services procured under Chapter 5G of the West Virginia Code will be governed by the attached AIA documents, as amended by the Supplementary Conditions for the State of West Virginia, in addition to the terms and conditions contained herein.

4A. PROHIBITION AGAINST GENERAL CONDITIONS: Notwithstanding anything contained in the AIA Documents or the Supplementary Conditions, the State of West Virginia will not pay for general conditions, or winter conditions, or any other condition representing a delay in the contracts. The Vendor is expected to mitigate delay costs to the greatest extent possible and any costs associated with Delays must be specifically and concretely identified. The state will not consider an average daily rate multiplied by the number of days extended to be an acceptable charge.

5. GREEN BUILDINGS MINIMUM ENERGY STANDARDS: In accordance with § 22-29-4, all new building construction projects of public agencies that have not entered the schematic design phase prior to July 1, 2012, or any building construction project receiving state grant funds and appropriations, including public schools, that have not entered the schematic design phase prior to July 1, 2012, shall be designed and constructed complying with the ICC International Energy Conservation Code, adopted by the State Fire Commission, and the ANSI/ASHRAE/IESNA Standard 90.1-2007: Provided, That if any construction project has a commitment of federal funds to pay for a portion of such project, this provision shall only apply to the extent such standards are consistent with the federal standards.

6. LOCAL LABOR MARKET HIRING REQUIREMENT: Pursuant to West Virginia Code §21-1C-1 et seq., Employers shall hire at least seventy-five percent of employees for public improvement construction projects from the local labor market, to be rounded off, with at least two employees from outside the local labor market permissible for each employer per project.

Any employer unable to employ the minimum number of employees from the local labor market shall inform the nearest office of Workforce West Virginia of the number of qualified employees needed and provide a job description of the positions to be filled.

If, within three business days following the placing of a job order, Workforce West Virginia is unable to refer any qualified job applicants to the employer or refers less qualified job applicants than the number requested, then Workforce West Virginia shall issue a waiver to the employer

stating the unavailability of applicant and shall permit the employer to fill any positions covered by the waiver from outside the local labor market. The waiver shall be in writing and shall be issued within the prescribed three days. A waiver certificate shall be sent to both the employer for its permanent project records and to the public authority.

Any employer who violates this requirement is subject to a civil penalty of \$250 per each employee less than the required threshold of seventy-five percent per day of violation after receipt of a notice of violation.

Any employer that continues to violate any provision of this article more than fourteen calendar days after receipt of a notice of violation is subject to a civil penalty of \$500 per each employee less than the required threshold of seventy-five percent per day of violation.

The following terms used in this section have the meaning shown below.

(1) The term "construction project" means any construction, reconstruction, improvement, enlargement, painting, decorating or repair of any public improvement let to contract in an amount equal to or greater than \$500,000. The term "construction project" does not include temporary or emergency repairs;

(2) The term "employee" means any person hired or permitted to perform hourly work for wages by a person, firm or corporation in the construction industry; The term "employee" does not include:(i) Bona fide employees of a public authority or individuals engaged in making temporary or emergency repairs;(ii) Bona fide independent contractors; or(iii) Salaried supervisory personnel necessary to assure efficient execution of the employee's work;

(3) The term "employer" means any person, firm or corporation employing one or more employees on any public improvement and includes all contractors and subcontractors;

(4) The term "local labor market" means every county in West Virginia and any county outside of West Virginia if any portion of that county is within fifty miles of the border of West Virginia;

(5) The term "public improvement" includes the construction of all buildings, roads, highways, bridges, streets, alleys, sewers, ditches, sewage disposal plants, waterworks, airports and all other structures that may be let to contract by a public authority, excluding improvements funded, in whole or in part, by federal funds.

7. DAVIS-BACON AND RELATED ACT WAGE RATES:

☐ The work performed under this contract is federally funded in whole, or in part. Pursuant to _____, Vendors are required to pay applicable Davis-Bacon wage rates.

☒ The work performed under this contract is not subject to Davis-Bacon wage rates.

8. SUBCONTRACTOR LIST SUBMISSION: In accordance with W. Va. Code § 5-22-1, the apparent low bidder on a contract valued at more than \$250,000.00 for the construction, alteration, decoration, painting or improvement of a new or existing building or structure shall submit a list of all subcontractors who will perform more than \$25,000.00 of work on the project including labor and materials. (This section does not apply to any other construction projects, such as highway, mine reclamation, water or sewer projects.) The subcontractor list shall be provided to the Purchasing Division within one business day of the opening of bids for review.

If the apparent low bidder fails to submit the subcontractor list, the Purchasing Division shall promptly request by telephone and electronic mail that the low bidder and second low bidder provide the subcontractor list within one business day of the request. Failure to submit the subcontractor list within one business day of receiving the request shall result in disqualification of the bid.

If no subcontractors who will perform more than \$25,000.00 of work are to be used to complete the project, the apparent low bidder must make this clear on the subcontractor list, in the bid itself, or in response to the Purchasing Division's request for the subcontractor list.

a. Required Information. The subcontractor list must contain the following information:

i. Bidder's name

ii. Name of each subcontractor performing more than \$25,000 of work on the project.

iii. The license number of each subcontractor, as required by W. Va. Code § 21-11-1 et. seq.

iv. If applicable, a notation that no subcontractor will be used to perform more than \$25,000.00 of work. (This item iv. is not required if the vendor makes this clear in the bid itself or in documentation following the request for the subcontractor list.)

b. Subcontractor List Submission Form: The subcontractor list may be submitted in any form, including the attached form, as long as the required information noted above is included. If any information is missing from the bidder's subcontractor list submission, it may be obtained from other documents such as bids, emails, letters, etc. that accompany the subcontractor list submission.

c. Substitution of Subcontractor. Written approval must be obtained from the State Spending Unit before any subcontractor substitution is permitted. Substitutions are not permitted unless:

i. The subcontractor listed in the original bid has filed for bankruptcy;

ii. The subcontractor in the original bid has been debarred or suspended; or

iii. The contractor certifies in writing that the subcontractor listed in the original bid fails, is unable, or refuses to perform his subcontract.

Subcontractor List Submission (Construction Contracts Only)

Bidder's Name:

[illegible]

Attach additional pages if necessary

DESIGNATED CONTACT: Vendor appoints the individual identified in this Section as the Contract Administrator and the initial point of contact for matters relating to this Contract.

(Name, Title) Brian L. Curry Vice President
(Printed Name and Title) Brian L. Curry, Vice President
(Address) P.O. Box 121, 736 Ekastown Road, Sarver, Pa 16055
(Phone Number) / (Fax Number) 724-353-1322 / 724-353-2486
(email address) bcurry@gregori-inc.com

CERTIFICATION AND SIGNATURE: By signing below, or submitting documentation through wvOASIS, I certify that: I have reviewed this Solicitation/Contract in its entirety; that I understand the requirements, terms and conditions, and other information contained herein; that this bid, offer or proposal constitutes an offer to the State that cannot be unilaterally withdrawn; that the product or service proposed meets the mandatory requirements contained in the Solicitation/Contract for that product or service, unless otherwise stated herein; that the Vendor accepts the terms and conditions contained in the Solicitation, unless otherwise stated herein; that I am submitting this bid, offer or proposal for review and consideration; that I am authorized by the vendor to execute and submit this bid, offer, or proposal, or any documents related thereto on vendor's behalf; that I am authorized to bind the vendor in a contractual relationship; and that to the best of my knowledge, the vendor has properly registered with any State agency that may require registration.

By signing below, I further certify that I understand this Contract is subject to the provisions of West Virginia Code § 5A-3-62, which automatically voids certain contract clauses that violate State law; and that pursuant to W. Va. Code 5A-3-63, the entity entering into this contract is prohibited from engaging in a boycott against Israel.

Gregori Construction Inc.
(Company) [Signature] President
(Authorized Signature) (Representative Name, Title)
Lance Shreffler, President, 8/24/2022
(Printed Name and Title of Authorized Representative) (Date)
724-353-1322 724-353-2486
(Phone Number) (Fax Number)
Lances@gregori-inc.com
(Email Address)

REQUEST FOR QUOTATION
CRFQ DMT23*01
Partial Replacement of South End of BR 6.5 on SBVR

GENERAL CONSTRUCTION SPECIFICATIONS (No AIA Documents)

1. **PURPOSE AND SCOPE:** The West Virginia Purchasing Division is soliciting bids on behalf of the WV Division of Multimodal Transportation Facilities to establish a contract for the following:

Partial replacement of timber members on south end of BR 6.5.

The Vendor shall furnish all materials, labor, and equipment necessary to complete all Construction Services. The Vendor shall furnish any incidental work, materials, labor, and equipment that are necessary to complete the Construction Services, even if such incidental work is not explicitly included in the Project Plans.

2. **DEFINITIONS:** The terms listed below shall have the meanings assigned to them below. Additional definitions can be found in section 2 of the General Terms and Conditions and in the Project Plans as defined below.

2.1 **“Construction Services”** means partial replacement of south end of BR 6.5 as more fully described in the Project Plans.

2.2 **“Pricing Page”** means the pages contained in wvOASIS, attached hereto as Exhibit A, or included in the Project Plans upon which Vendor should list its proposed price for the Construction Services.

2.3 **“Solicitation”** means the official notice of an opportunity to supply the State with Construction Services that is published by the Purchasing Division.

2.4 **“Project Plans”** means documents developed by an architect, an engineer, the Agency, or another design professional, which are attached hereto as Exhibit B, that provide detailed instructions on how the Construction Services are to be performed. In the event that Project Plans contain drawings or other documents too large to attach in Exhibit B, Vendors can obtain copies in accordance with Section 9 of these Specifications.

3. **ORDER OF PRECEDENCE:** This General Construction Specifications document will have priority over, and supersede, anything contained in the Project Plans.
4. **QUALIFICATIONS:** Vendor, or Vendor’s staff if requirements are inherently limited to individuals rather than corporate entities, shall have the following minimum qualifications:

REQUEST FOR QUOTATION
CRFQ DMT23*01
Partial Replacement of South End of BR 6.5 on SBVR

- 4.1. Experience:** Vendor, or Vendor's supervisory staff assigned to this project, must have successfully completed at least five (5) projects that involved work similar to that described in these specifications or the Project Plans. Compliance with this experience requirement will be determined prior to contract award by the State through references provided by the Vendor upon request, through knowledge or documentation of the Vendor's past projects, through confirmation of experience requirements from the architect assisting the State in this project, or some other method that the State determines to be acceptable. Vendor must provide any documentation requested by the State to assist in confirmation of compliance with this provision. References, documentation, or other information to confirm compliance with this experience requirement may be requested after bid opening and prior to contract award.
- 4.2.** Contractor must have had experience with replacing bridge timbers.
- 4.3.** Contractor must have had experience in installing bridge concrete footers and backwalls.
- 5. CONTRACT AWARD:** The Contract is intended to provide Agency with a purchase price for the Construction Services. The Contract will be awarded to the lowest qualified responsible bidder meeting the required specifications. If the Pricing Pages contain alternates/add-ons, the Contract will be awarded based on the grand total of the base bid and any alternates/add-ons selected.
- 6. SELECTION OF ALTERNATES:** Pursuant to W. Va. Code § 5-22-1(f), any solicitation of bids shall include no more than five alternates. Alternates, if accepted, shall be accepted in the order in which they are listed on the bid form. Any unaccepted alternate contained within a bid shall expire 90 days after the date of the opening of bids for review. Determination of the lowest qualified responsible bidder shall be based on the sum of the base bid and any alternates accepted.
- 7. PERFORMANCE:** Vendor shall perform the Construction Services in accordance with this document and the Project Plans.
- 8. SUBSTITUTIONS:** Any substitution requests must be submitted in accordance with the official question and answer period described in the INSTRUCTIONS TO VENDORS SUBMITTING BIDS, Paragraph 4. Vendor Question Deadline. Vendors submitting substitution requests should submit product brochures and product specifications during the official question and answer period.
- 9. PROJECT PLANS:** The checked box will apply to Project Plans for this solicitation.

REQUEST FOR QUOTATION
CRFQ DMT23*01
Partial Replacement of South End of BR 6.5 on SBVR

- X **No Additional Project Plan Documents:** There are no additional Project Plans other than those attached hereto as Exhibit B and B1 or any subsequent addenda modifying Exhibit B and B1.

Larger copies of Engineering plans can be view at The WV State Rail Authority 120 Water Plant Drive, Moorefield, WV 26836.

- ☐ **Additional Project Plan Documents:** There are additional Project Plan documents other than those attached as Exhibit B. Copies of the additional Project Plan documents not attached as Exhibit B can be obtained by contacting the entity identified below.

10. CONDITIONS OF THE WORK

- 10.1. Permits:** The Vendor shall procure all necessary permits and licenses to comply with all applicable Federal, State, or Local laws, regulations and ordinances of any regulating body.

- 10.2. Existing Conditions:** If discrepancies are discovered between the existing conditions and those noted in the specifications, Vendor must immediately notify the Agency's representative. Vendor must also immediately notify the Agency if suspected hazardous materials are encountered.

- 10.3. Standard Work Hours:** The standard hours of work for this Contract will be 6:30 a.m. – 6:30 pm 7 days of the week (or longer as needed) holidays recognized by the State of West Virginia can also be planned for work. Any work outside of the standard hours of work must be approved in advance at the Agency's sole discretion. Authorization of work outside of the standard hours of work will not entitle Vendor to additional compensation. Contractor cannot plan to work the last weekend of every month because of a scheduled Potomac Eagle excursion to Green Spring.

- 10.4. Project Closeout:** Project Closeout shall include the following:

- 10.4.1. Final Cleanup:** Vendor shall perform the final cleanup activities listed below, along with any other final cleanup activities normally associated with the work performed under this Contract, prior to final inspection:

- 10.4.1.1.** Vendor will remove all old timbers and dispose of properly.
- 10.4.1.2.** Vendor will remove all trash and debris from work site.

REQUEST FOR QUOTATION
CRFQ DMT23*01
Partial Replacement of South End of BR 6.5 on SBVR

10.4.2. Final Inspection: Vendor shall participate in a final inspection with the Agency's project manager. The purpose of the final inspection will be to identify deficiencies that need to be remedied prior to Agency's final acceptance of the work. Vendor shall at all times be obligated to perform in accordance with the Contract and must take all actions necessary to ensure that work complies with requirements of Contract prior to final acceptance. Final acceptance does not waive or release Vendor from its obligation to ensure that work complies with the Contract requirements. Vendor shall submit any warranty documents to the Agency project manager at final inspection.

11. FACILITIES ACCESS: Performance of Contract Services does not require access cards and/or keys to gain entrance to Agency's facilities.

12. MISCELLANEOUS:

12.1. Contract Manager: During its performance of this Contract, Vendor must designate and maintain a primary contract manager responsible for overseeing Vendor's responsibilities under this Contract. The Contract manager must be available during normal business hours to address any customer service or other issues related to this Contract. Vendor should list its Contract manager and his or her contact information below.

Contract Manager: Brian Curry

Telephone Number: 724-353-1322

Fax Number: 724-353-2486

Email Address: bcurry@gregori-inc.com

REQUEST FOR QUOTATION
South End Replacement BR 6.5 on the South Branch Valley Railroad

EXHIBIT B – PROJECT PLANS

1. GENERAL REQUIREMENTS:

13.1 Mandatory Contract Item Requirements: Contract Item must meet or exceed the mandatory requirements listed below.

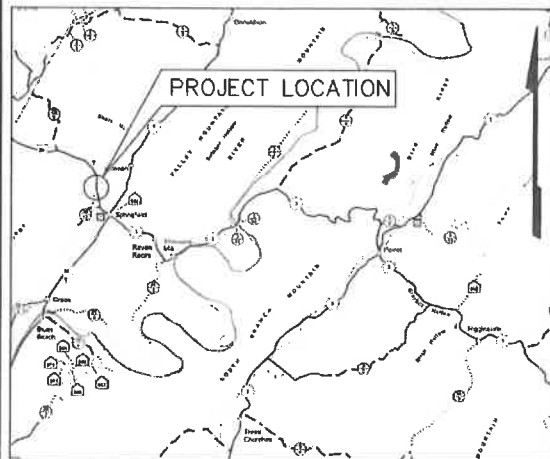
13.1.1 Bridge 6.5 (Located at Milepost 6.5 over County Route 28 in Hampshire County)

13.1.1.1 Vendor will perform work on BR 6.5 as outlined in the attached engineering plans. Exhibit B (1)

13.1.1.2 Vendor will be responsible for all rail work on bridge as outlined in the attached engineering plans. Exhibit B (1)

13.2 Material Specifications

13.2.1.1 Material specifications are listed on the attached engineering plans.
Exhibit B (1)



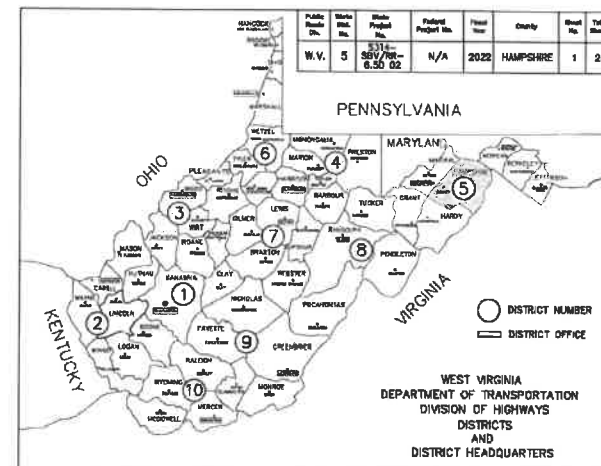
UTILITIES

FIRST ENERGY CORPORATION
FRONTIER COMMUNICATIONS
GREEN SPRING VALLEY P.S.D.

BEGIN PROJECT
MATCH EXISTING
STA. 50+31.45

WEST VIRGINIA DEPARTMENT OF TRANSPORTATION STATE RAIL AUTHORITY PLANS FOR CONSTRUCTION OF STATE HIGHWAY FEDERAL PROJECT NO. N/A STATE PROJECT NO. S314-SBV/RR-6.50 02 COUNTY ROUTE NO. 28 SPRINGFIELD DISTRICT HAMPSHIRE COUNTY SOUTH BRANCH VALLEY RAILROAD BRIDGE 6.50 (PHASE 2)

Station	Station	ft.	mile(s)
Railway 50+31.45	to 51+58.02	= 126.57	= 0.024
Total Project Length		= 126.57	= 0.024



TYPE OF CONSTRUCTION BRIDGE NO. 6.50 MODIFICATION & RETAINING WALL



J.B. TURMAN ENGINEERING, PLLC
P.O. BOX 100
1000 UNIVERSITY AVE., SUITE 100
www.jbturmaneng.com



JAMES B. TURMAN P.E. NO. 15695

7/11/22
DATE

SCALES
PLAN HOR. 0 10 ft.
VERT. 0 10 ft.

PROFILE
HOR. 0 10 ft.

DESIGN DESIGNATION	
A. D. T.	= N/A
A. D. T.	= N/A
D. H. V.	= N/A
D.	= N/A
T.	= N/A
V.	= N/A
DESIGN EXCEPTIONS:	

CONVENTIONAL SIGNS

STATE LINE	—
COUNTY LINE	—
CORPORATION LINE	—
PROPOSED R/W & EASEMENT LINE	—
EXISTING R/W LINE	—
PROPERTY LINE	—
EXISTING FENCE	—
PROPOSED FENCE	—
EDGE OF STREAM	—
PROPOSED GUARD RAIL	—
EXISTING GUARD RAIL	—
RAILROAD	—
GAS LINE	—
WATER LINE	—
TELEPHONE LINE	—
ELECTRIC LINE	—
TELEPHONE POLE	—
POWER POLE	—
COMBINED POWER AND TELEPHONE POLE	—
TREE	—
SHRUB	—
RIGHT OF WAY MARKER	—

LAYOUT SCALE

0 30 ft.

INDEX TO SHEETS

NO.	DESCRIPTION
1	TITLE SHEET
2	TYPICAL SECTIONS
3	SUMMARY OF QUANTITIES
4-5	GENERAL NOTES
6-7	SPECIAL DETAILS
8-10	BACKWALL DETAILS
11	PER BACKFILL DETAIL
12-13	TEMPORARY TRAFFIC CONTROL PLANS
14	CONSTRUCTION SEQUENCE
15	PLAN SHEET
16	PROFILE SHEET
17-19	BORING LOGS
20-24	CROSS SECTIONS

NO.	REVISIONS	DATE	BY
1			
2			
3			
4			
5			
6			
7			
8			
9			
10			

I HEREBY CERTIFY THAT THIS IS A CORRECT COPY OF THE PLANS
OF PROJECT S314-SBV/RR-6.50 02

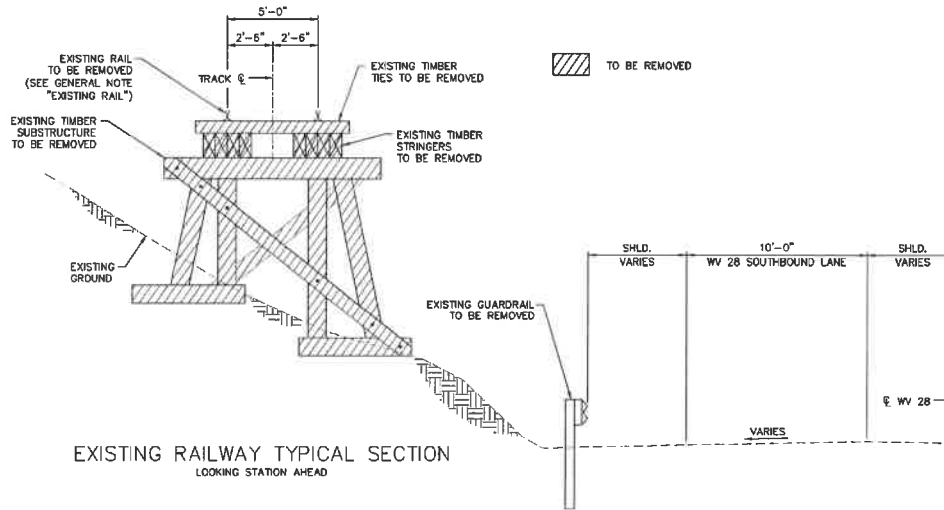
EXECUTIVE SECRETARY

20

RECOMMENDED:	PROJECT ENGINEER
RECOMMENDED FOR APPROVAL:	STATE HIGHWAY ENGINEER
APPROVED:	COMMISSIONER OF HIGHWAYS

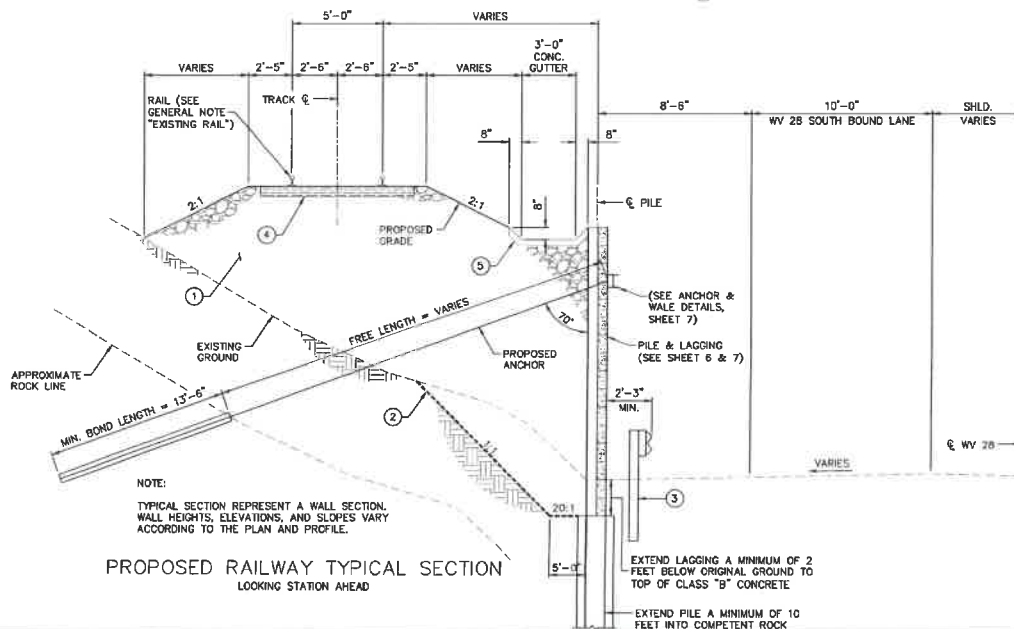
PROJECT NO. S314-SBV/RR-6.50 02

PUBLIC ROADS DIV.	STATE NO.	STATE PROJECT NO.	FEDERAL PROJECT NO.	FISCAL YEAR	COUNTY	SHEET NO.	TOTAL SHEETS
WV	5	S314-SB/RR-6.50 D	N/A	2022	HAMPSHIRE	2	24



STA. TO STA.	PILE SECTION	PILE SPACING	NO. OF PILES	EST. LIN. FT.	DESIGN SECT. MODULUS
300+03.10	300+81.03	HP14X73	4'	20	712
301+09.23	301+22.46	HP14X73	4'	3	125
301+28.85	301+38.95	HP14X117	4'	5	185
TOTAL				28	1022

ESTIMATED PILE LENGTHS				
PILE NO.	PILE TYPE	TOP ELEV (FT)	BOTTOM ELEV (FT)	PILE LENGTH (FT)
1	HP14X73	769	742	27
2	HP14X73	769	742	27
3	HP14X73	769	740	29
4	HP14X73	769	740	29
5	HP14X73	769	738	31
6	HP14X73	769	738	31
7	HP14X73	769	736	33
8	HP14X73	771	736	35
9	HP14X73	771	736	35
10	HP14X73	771	736	35
11	HP14X73	773	736	37
12	HP14X73	773	736	37
13	HP14X73	775	736	39
14	HP14X73	775	736	39
15	HP14X73	775	736	39
16	HP14X73	777	736	41
17	HP14X73	777	736	41
18	HP14X73	777	736	41
19	HP14X73	778	736	43
20	HP14X73	778	736	43
21	HP14X73	779	736	43
22	HP14X73	777	736	41
23	HP14X73	777	736	41
24	HP14X117	777	736	41
25	HP14X117	775	736	39
26	HP14X117	773	736	37
27	HP14X117	773	738	35
28	HP14X117	771	738	33



ITEM	DESCRIPTION	UNITS
① 212005-000	SELECT MATERIAL FOR BACKFILLING	CY
② 207034-000	FABRIC FOR SEPARATION	SY
③ 607001-001	TYPE 1 GUARDRAIL, CLASS V	LF
④ 622017-001	TIMBER RAILROAD CROSSTIE	EA
⑤ 633001-001	CONCRETE GUTTER	SY

NOTE:

THE CONTRACTOR IS RESPONSIBLE FOR REPAIRING DAMAGE TO THE EXISTING ROADWAY AS A RESULT OF CONSTRUCTING THE WALL. ALL COSTS ASSOCIATED WITH ROADWAY REPAIRS WILL BE PAID FOR BY THE CONTRACTOR.

SEE WDDH STANDARD DETAILS BOOK VOLUME 1 FOR CONCRETE GUTTER DETAILS.

REVISION NUMBER	SHEET NUMBER	REVISION	DATE	BY	J.B. TURMAN ENGINEERING, PLLC P.O. Box 483 Barboursville, WV 25504 www.jbtengineering.com	DESIGNED DH 27 JAN 22	CHECKED BY 27 JAN 22	DATE 28 JAN 22	SOUTH BRANCH VALLEY RAILROAD BRIDGE 6.50 OVER WEST VIRGINIA ROUTE 28	THE WEST VIRGINIA DEPARTMENT OF TRANSPORTATION STATE RAIL AUTHORITY	TYPICAL SECTIONS	6.50
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PUBLIC ROADS DIV.	STATE DIST. NO.	STATE PROJECT NO.	FEDERAL PROJECT NO.	FISCAL YEAR	COUNTY	SHEET NO.	TOTAL SHEETS
WV	5	S314-SBV/RR-6.50 02	N/A	2022	HAMPSHIRE	3	24


ABBREVIATIONS:

AASHTO	= AMERICAN ASSOCIATION OF STATE HIGHWAY TRANSPORTATION OFFICIALS
ABUT	= ABUTMENT
AREMA	= AMERICAN RAILWAY ENGINEERING AND MAINTENANCE-OF-WAY ASSOCIATION
B OR BOT	= BOTTOM
BRG	= BEARING
CLR	= CLEAR
CY	= CUBIC YARD
DIA	= DIAMETER
EA	= EACH
EF	= EACH FACE
EL	= ELEVATION
EOW	= EDGE OF WATER
EO	= EQUAL
FTG	= FOOTING
IN	= INCH
KSI	= KIPS PER SQUARE INCH
LB	= POUND
LF	= LINEAR FOOT
LRFD	= LOAD RESISTANCE FACTOR DESIGN
LS	= LUMP SUM
MAX	= MAXIMUM
MIN	= MINIMUM
OD	= OUTSIDE DIAMETER
OHW	= ORDINARY HIGH WATER
PSI	= POUND PER SQUARE INCH
R	= RADIUS
REQ'D	= REQUIRED
SF	= SQUARE FOOT
SPA	= SPACES
SQ	= SQUARE
STA	= STATION
T	= TOP
T&B	= TOP & BOTTOM
TEMP	= TEMPORARY
TTCP	= TEMPORARY TRAFFIC CONTROL PLAN
TYP	= TYPICAL

NOTE: ITEM 607006-001, "THREE BEAM GUARDRAIL BRIDGE TRANSITION" IS USED FOR QUANTIFYING THE GUARDRAIL - PIER TRANSITION ON EITHER SIDE OF THE EXISTING BRIDGE PIER.

SUMMARY OF ESTIMATED QUANTITIES

ITEM	ALT	DESCRIPTION	UNIT	QUANTITY
ROADWAY ITEMS				
201001-000		CLEARING AND GRUBBING	LS	1
204001-000		MOBILIZATION	LS	1
207001-001		UNCLASSIFIED EXCAVATION	CY	223
207034-000		FABRIC FOR SEPERATION	SY	225
601037-001		DOWEL HOLE, 1'-9" MINIMUM DEPTH WITH EPOXY ADHESIVE	EA	86
607001-001		TYPE 1 GUARDRAIL, CLASS V	LF	137.5
607006-001		THREE BEAM GUARDRAIL BRIDGE TRANSITION	EA	2
614001-016		HP14X73 STEEL PILE	LF	837
614001-019		HP14X117 STEEL PILE	LF	185
614003-001		CONCRETE LAGGING, 8" THICKNESS	SF	1720
633001-001		CONCRETE GUTTER	SY	29
636007-001		ERADICATION OF PAYEMENT MARKING	LF	24
636011-001		TRAFFIC CONTROL DEVICE	UN	4,240
636012-010		PROJECT TRAFFIC CONTROL DEVICE CLEANING	EA	1
636013-001		INDIVIDUAL TRAFFIC CONTROL DEVICE CLEANING	EA	40
636014-001		FLAGGER	HR	200
636017-005		TEMPORARY BARRIER, TL-3, I	LF	360
636022-001		CHANGEABLE MESSAGE SIGN	DAY	254
636023-001		TEMPORARY TRAFFIC SIGNAL, 01	MO	8
636023-002		TEMPORARY TRAFFIC SIGNAL, 02	MO	8
636025-001		WARNING LIGHTS, TYPE B	DAY	1,620
639001-001		CONSTRUCTION LAYOUT STAKE	LS	1
640003-001		BUILDING EQUIPMENT	LS	1
640006-001		SMALL FIELD OFFICE	MO	8
642012-001		SILT FENCE	LF	300
645001-001		PRIMARY REINFORCEMENT, 2400 LB/FT	SY	1170
652001-001		AGRICULTURAL LIMESTONE	TN	1.50
652002-001		FERTILIZER, 10-20-10	TN	0.50
652002-002		FERTILIZER, UREA FORMALDEHYDE	TN	0.15
652003-001		SEED MIXTURE B, C-1, OR C-2	LB	67
652004-001		STRAW OR HAY MULCH	TN	2.00
663005-011		STOP LINE, TYPE V - 24 IN	LF	24
STRUCTURAL ITEMS				
203001-000		DISMANTLING STRUCTURE	LS	1
212005-000		SELECT MATERIAL FOR BACKFILLING	CY	860
212010-003		SHORING	LS	1
601002-001		CLASS B CONCRETE	CY	15
602002-001		EPOXY COATED REINFORCING STEEL BAR	LB	2,595
622017-001		TIMBER RAILROAD CROSSTIE	EA	82
628001-001		DRILLED HOLE, 4.5" DIAMETER	LF	22
628002-001		PRESSURE INJECTED GROUT	CF	32
628007-001		ROCK ANCHORS, INSTALLED	EA	16
628007-002		ROCK ANCHOR PERFORMANCE TEST	EA	2

					J.B. TURMAN ENGINEERING, PLLC P.O. Box 483 Barboursville, WV 25504 www.jbtengineering.com		DESIGNED EH	DATE 27 JAN 22	CHECKED BT	DATE 28 JAN 22	SOUTH BRANCH VALLEY RAILROAD BRIDGE 6.50 OVER WEST VIRGINIA ROUTE 28	THE WEST VIRGINIA DEPARTMENT OF TRANSPORTATION STATE RAIL AUTHORITY SUMMARY OF QUANTITIES	6.50
					DRAWN EH	DATE 27 JAN 22	REVIEWED BT	DATE 28 JAN 22					
REVISION	DATE	BY											

GENERAL NOTES

PUBLIC ROADS NO.	STATE DIST. NO.	STATE PROJECT NO.	FEDERAL PROJECT NO.	FISCAL YEAR	COUNTY	SHEET NO.	TOTAL SHEETS
WV	5	5314-SBV/RR-6.50 02	N/A	2022	WV	4	24

GOVERNING SPECIFICATIONS:

THE AMERICAN RAILWAY ENGINEERING AND MAINTENANCE-OF-WAY ASSOCIATION (AREMA) 2019 EDITION "MANUAL FOR RAILWAY ENGINEERING, VOLUME 2, "STRUCTURES", AND THE WEST VIRGINIA DEPARTMENT OF TRANSPORTATION DIVISION OF HIGHWAYS STANDARD SPECIFICATIONS, ROADS AND BRIDGES ADOPTED YEAR 2017, AS AMENDED BY THE WEST VIRGINIA DEPARTMENT OF TRANSPORTATION, DIVISION OF HIGHWAYS, SUPPLEMENTAL SPECIFICATIONS, DATED JANUARY 1, 2022, THE CONTRACT DOCUMENTS, AND THE CONTRACT PLANS ARE THE GOVERNING PROVISIONS APPLICABLE TO THIS PROJECT.

THE RETAINING WALL DESIGN IS IN ACCORDANCE WITH AASHTO LRFD BRIDGE DESIGN SPECIFICATIONS 9TH EDITION, 2020.

STANDARD DETAILS:

THE WEST VIRGINIA DEPARTMENT OF TRANSPORTATION, DIVISION OF HIGHWAYS, STANDARD DETAILS BOOK, VOLUME I, DATED MAY, 2016 & VOLUME II, DATED JANUARY 1, 2019 AND VOLUME III, DATED JULY 1, 2019 SHALL APPLY TO THIS PROJECT. REVISED STANDARD DRAWINGS LISTED IN THE TABLE ON THIS SHEET WITH THEIR CORRESPONDING DATE SUPERSEDE THE AFOREMENTIONED STANDARD DETAILS. STANDARD DETAILS CAN BE FOUND AT: <http://www.transportation.wv.gov/highways/engineering/Pages/publications.aspx>

DRAINAGE:

ALL CULVERTS, INLETS AND OTHER DRAINAGE ITEMS ON THIS PROJECT HAVE BEEN LOCATED AS AVAILABLE INFORMATION. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ESTABLISHING THE EXACT LOCATION AND ELEVATION OF ALL DRAINAGE ITEMS AND, AFTER REVIEW AND APPROVAL BY THE ENGINEER, MAKE ANY NECESSARY ADJUSTMENTS IN THE FIELD TO INSURE PROPER DRAINAGE.

UTILITIES:

THE LOCATIONS OF ALL KNOWN UTILITIES ARE SHOWN ON THE CONTRACT PLANS BASED ON THE BEST AVAILABLE INFORMATION FROM EXISTING PLANS AND FIELD INFORMATION. THE CONTRACTOR SHALL CALL MISS-UTILITY PLUS ANY UTILITY COMPANIES NOT COVERED BY MISS-UTILITY, AND HAVE ALL EXISTING UTILITIES FIELD LOCATED BY THE OWNER OR OWNER REPRESENTATIVE PRIOR TO CONSTRUCTION. IT IS THE CONTRACTOR'S RESPONSIBILITY TO ASCERTAIN THE STATUS AND LOCATION OF EACH UTILITY WHEN PERFORMING WORK WHICH MAY AFFECT THESE FACILITIES, INCLUDING PROBING, EXCAVATION, OR ANY OTHER PRECAUTION REQUIRED TO CONFIRM A UTILITY'S LOCATION. IN THE EVENT OF DAMAGE OR DISRUPTION TO UTILITIES WHICH ARE ACTIVE AND ARE TO REMAIN IN SERVICE, THE CONTRACTOR SHALL IMMEDIATELY NOTIFY AN OFFICIAL OF THE AFFECTED UTILITY AND LEND ALL POSSIBLE ASSISTANCE IN RESTORING SERVICE. THE CONTRACTOR SHALL ASSUME ALL COSTS ASSOCIATED WITH THE REPAIR AND INTERRUPTION OF SUCH SERVICES.

VERIFICATION OF DIMENSIONS:

THE CONTRACTOR IS RESPONSIBLE FOR VERIFICATION OF ALL PLAN AND ELEVATION DIMENSIONS PRIOR TO ORDERING MATERIALS FOR THE CONSTRUCTION OF THE VARIOUS BID ITEMS ON THIS PROJECT. THE CONTRACTOR IS TO REPORT ANY DEVIATIONS TO THE ENGINEER PRIOR TO COMMENCEMENT OF WORK.

FERTILIZER, SEEDING AND MULCHING:

ALL DISTURBED SOIL AREAS ARE TO BE SEED, MULCHED AND FERTILIZED. MATERIALS AND WORK SHALL BE AS SPECIFIED IN SECTIONS 642 & 652 OF THE STANDARD SPECIFICATIONS. TESTING WILL NOT BE REQUIRED ON THOSE ITEMS WHEN PURCHASED FROM A REPUTABLE DEALER.

WORKING HOURS:

THE CONTRACTOR SHALL BE PROHIBITED FROM WORKING WITHIN 600 FEET OF ANY RESIDENCE BETWEEN THE HOURS OF 10:00 PM AND 6:00 AM. ALL CONSTRUCTION EQUIPMENT POWERED BY AN INTERNAL COMBUSTION ENGINE SHALL BE EQUIPPED WITH A PROPERLY MAINTAINED MUFFLER. THE CONTRACTOR IS ALSO PROHIBITED FROM WORKING THE LAST WEEKEND OF EACH MONTH TO AVOID "EAGLE GREEN SPRING RUN".

WATER QUALITY:

THE CONTRACTOR WILL BE RESPONSIBLE FOR WATER QUALITY THROUGHOUT THE DURATION OF THE CONSTRUCTION. THE PROJECT ENGINEER WILL WORK CLOSELY WITH THE PROJECT SUPERINTENDENT. THE CONTRACTOR WILL BE RESPONSIBLE FOR THE FOLLOWING:

1. DEVELOPING AND IMPLEMENTING AN EFFECTIVE EROSION CONTROL PLAN.
2. DIRECTING THE CONSTRUCTION, OPERATION AND DISMANTLING OF TEMPORARY EROSION CONTROL FEATURES.
3. IMPLEMENTING REMEDIAL ACTION REQUIRED TO REPAIR FAILING EROSION AND SEDIMENTATION CONTROL FEATURES.
4. IMPLEMENTING STORM AND WINTER SHUTDOWN PROCEDURES.
5. WILL SHAPE EARTHWORK PRIOR TO THE SUSPENSION OF GRADING OPERATIONS EACH DAY IN A MANNER THAT WILL PERMIT STORM RUNOFF WITH MINIMAL EROSION.
6. EROSION CONTROL FEATURES INSTALLED BY THE CONTRACTOR WILL BE OPERATED AND MAINTAINED IN AN ACCEPTABLE CONDITION.

STRUCTURAL STEEL:

AASHTO M270, GRADE 50, FY = 50,000 PSI (STEEL PILING & WALE)

DESIGN:

LIVE LOAD = COOPER E-80 LOADING WITH FULL DIESEL IMPACT AND THE ALTERNATE LIVE LOAD.

MATERIAL DESIGNATIONS:

PLANS WILL UTILIZE ASTM DESIGNATIONS FOR MATERIALS IN COMBINATION WITH WEST VIRGINIA DEPARTMENT OF TRANSPORTATION, DIVISION OF HIGHWAYS SPECIFICATIONS.

DESIGN UNIT STRESSES:

CONCRETE:
CLASS 'B' $f'_c = 3,000$ PSI

REINFORCING STEEL:
AASHTO M31 GRADE 60 $f_y = 60,000$ PSI

CONCRETE:

THE BACKWALL CONCRETE SHALL BE CLASS B CONCRETE. CONCRETE SHALL BE CURED IN ACCORDANCE WITH SECTION 601.12 OF THE STANDARD SPECIFICATIONS, EXCEPT THAT A SEVEN DAY WET CURE SHALL BE REQUIRED. THE CONTRACTOR IS PROHIBITED FROM REDUCING THE CURING TIME AS OUTLINED IN SECTION 601.12.1 OF THE STANDARD SPECIFICATIONS. THE CONTRACTOR SHALL NOT BE PERMITTED TO ADD ADDITIONAL AMOUNT OF CEMENT TO THE APPROVED MIX DESIGN IN ORDER TO OBTAIN HIGH EARLY STRENGTH AND/OR REDUCE CURE TIME.

ALL CONCRETE SHALL BE FINISHED IN ACCORDANCE WITH THE REQUIREMENTS OF SECTION 601 OF THE SPECIFICATIONS. CHAMFER ALL EXPOSED EDGES $\frac{3}{4}$ " BY $\frac{3}{4}$ " ON SUPERSTRUCTURE AND 1" BY 1" ON SUBSTRUCTURE UNLESS OTHERWISE NOTED.

REINFORCING STEEL BARS:

EMBEDMENT DIMENSIONS FOR REINFORCING ARE CLEAR DIMENSIONS UNLESS OTHERWISE SHOWN OR NOTED. BAR SPACING IS GIVEN TO CENTERLINE OF BAR. LAP ALL REINFORCEMENT A MINIMUM OF 30 BAR DIAMETERS UNLESS OTHERWISE NOTED IN THE PLANS. THE CLEAR DISTANCE BETWEEN REINFORCING STEEL AND THE FACE OF CONCRETE SHALL BE 3", UNLESS OTHERWISE SHOWN ON THE DRAWINGS. COST OF REINFORCING STEEL BARS SHALL BE INCLUDED UNDER ITEM 602002-001.

STRUCTURAL FASTENERS:

ANCHOR BOLTS SHALL MEET THE REQUIREMENTS OF AASHTO M314 GRADE 105. NUTS SHALL MEET THE REQUIREMENTS OF AASHTO M291. WASHERS SHALL MEET THE REQUIREMENTS OF AASHTO M293. ANCHOR BOLTS, NUTS AND WASHERS SHALL BE HOT DIPPED GALVANIZED ACCORDING TO AASHTO M232. THE APPLICATION OF GALVANIZING SHALL BE 2 OUNCES PER SQUARE FOOT OF SURFACE.

ALL BOLTS, SPIKES, ANCHORS, NUTS, WASHERS AND BRACKETS USED ON THIS PROJECT SHALL BE PAID INCIDENTAL TO ITEM 622017-001, TIMBER RAILROAD CROSSTIE.

DISMANTLING STRUCTURES:

THE EXISTING RAILROAD TRESTLE BRIDGE SHALL BE DISMANTLED. CONTRACTOR SHALL EXERCISE GREAT CARE IN DISMANTLING THE EXISTING TIMBER TRESTLE AS TO NOT DAMAGE COUNTY ROUTE 28 OR ANY PART OF THE REMAINING RAILROAD BRIDGE. COMPLIANCE WITH ALL FEDERAL AND STATE GUIDELINES IS THE RESPONSIBILITY OF THE CONTRACTOR AND NO ADDITIONAL COST IS PERMITTED FOR DISPOSAL OF THE EXISTING TIMBER TRESTLE. THE EXISTING TRESTLE BECOMES THE PROPERTY OF THE CONTRACTOR AND THE CONTRACTOR IS RESPONSIBLE FOR DISPOSAL. A DEMOLITION PLAN SHALL BE SUBMITTED TO THE PROJECT MANAGER FOR APPROVAL. IT IS ASSUMED THAT THE EXISTING TIMBER STRUCTURE IS COATED IN CREOSOTE AND SHALL BE DISPOSED OF IN ACCORDANCE WITH ALL WEST VIRGINIA STATE OR LOCAL WASTE MANAGEMENT PRACTICES. ALL COST FOR DELIVERY AND DISPOSAL OF THE DISMANTLED BRIDGE ARE INCIDENTAL TO ITEM 203001-000, DISMANTLING STRUCTURES.

PROTECTION OF CONCRETE BACKWALL:

PRIOR TO BACKFILLING BEHIND THE BACKWALL, THE CONTRACTOR SHALL COAT ALL EXPOSED AREAS OF THE BACKWALL WITH AN APPROVED SILANE BASED CONCRETE SEALER. PREPARATION OF SURFACES, APPLICATION RATES, AND METHODS SHALL BE AS RECOMMENDED BY THE SILANE MANUFACTURER.

UPON COMPLETION OF ALL SUBSTRUCTURE CONCRETE CURING OPERATIONS, THE CONTRACTOR SHALL REMOVE ALL RUST STAINS FROM THE BACKWALL USING PROPRIETARY CHEMICAL STAIN REMOVERS OR MILD ACID ETCHING ABRASIVE BLAST CLEANING MAY BE USED TO SUPPLEMENT THE OTHER CLEANING METHODS IF THE STAINED AREAS ARE SEVERE OR EXTENSIVE. ALL CLEANING METHODS SHALL BE SUBJECT TO APPROVAL OF THE ENGINEER.

INCLUDE THE COST OF SILANE COATING, PROTECTING, CLEANING, AND RE-COATING SUBSTRUCTURE UNITS IN ITEM 601002-001, CLASS B CONCRETE.

EXISTING RAIL:


THE CONTRACTOR IS RESPONSIBLE FOR CUTTING THE EXISTING RAIL WITH A RAIL SAW AND WELDING RAIL PER AREMA CHAPTER 4. THE CONTRACTOR HAS THE OPTION OF REUSING THE EXISTING RAIL. THIS WORK SHALL BE BID INCIDENTAL TO ITEM 622017-001, TIMBER RAILROAD CROSSTIE.

TIMBER CROSSTIES:

ALL NEW TIMBER CROSSTIES USED TO REPLACE THE NEW SECTION OF TRACK SHALL BE MANUFACTURED, INSTALLED AND SPACED IN ACCORDANCE WITH CHAPTER 30 OF THE AREMA MANUAL FOR RAILWAY ENGINEERING.

GEOTECHNICAL INFORMATION:

GEOTECHNICAL INFORMATION IS PROVIDED WITH THESE PLANS AND SHALL BE CONSIDERED AS A PART OF THE CONTRACT DOCUMENTS. THE INFORMATION PRESENTED IS BASED IN PART ON SMALL DIAMETER TEST BORINGS.

<div>  </div>	<div> J.B. TURMAN ENGINEERING, PLLC P.O. Box 483 Barboursville, WV 25504 www.jbtengineering.com </div>	DESIGNED	DATE	CHECKED	DATE	<div> SOUTH BRANCH VALLEY RAILROAD BRIDGE 6.50 OVER WEST VIRGINIA ROUTE 28 </div>	<div> THE WEST VIRGINIA DEPARTMENT OF TRANSPORTATION STATE RAIL AUTHORITY </div>	<div> GENERAL NOTES (SHEET 1 OF 2) </div>	<div> 6.50 </div>
		DRAWN	DATE	REVIEWED	DATE				
		EH	27 JAN 22	BT	28 JAN 22				
		EH	27 JAN 22	BT	28 JAN 22				

GENERAL NOTES

PUBLIC ROADS DIST. NO.	STATE DIST. NO.	STATE PROJECT NO.	FEDERAL PROJECT NO.	FISCAL YEAR	COUNTY	SHEET NO.	TOTAL SHEETS
WV	5	5314-SBVR-6.50 02	N/A	2022	WV	5	24

FINAL GRADE:

THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE FINAL GRADE OF THE RAIL LINE. ELEVATIONS WILL BE TAKEN EVERY 5 FEET FOR 300 FEET UPSTATION OF THE BEGIN PROJECT TO ENSURE A CONTINUOUS GRADE ALONG THE NEW RAIL AS IT TIES INTO THE EXISTING RAIL LINE. THIS WORK WILL BE BID INCIDENTAL TO ITEM 639001-001, CONSTRUCTION LAYOUT STAKE. THE CONTRACTOR IS RESPONSIBLE FOR MAINTAINING STABILITY OF ROADWAY AND RAILWAY SLOPES.

SHOP DRAWINGS:

ALL SHOP DRAWINGS WILL BE SUBJECT TO THE REQUIREMENTS OF SECTION 105.2.

SPECIAL PROVISIONS:

THE FOLLOWING IS A LIST OF SPECIAL PROVISIONS:
(SP) SECTION 645 REINFORCED SOIL SLOPE
(SP) SECTION 628 ROCK ANCHORS

WASTE MATERIAL:

ALL MATERIAL REMOVED AND NOT REUSED IN THE CONSTRUCTION OF THE PROJECT SHALL BE REMOVED FROM THE PROJECT SITE AND DISPOSED OF BY THE CONTRACTOR. THE COST OF THIS WORK WILL BE INCLUDED IN VARIOUS BID ITEMS ON THIS PROJECT. THE DISPOSAL OF WASTE MATERIAL SHALL BE IN ACCORDANCE WITH SECTION 207.6.3 OF THE SPECIFICATIONS.

EROSION AND SEDIMENT CONTROL:

DETAILS NOT SHOWN IN THE PLANS SHALL BE IN ACCORDANCE WITH THE WEST VIRGINIA DEPARTMENT OF TRANSPORTATION, DIVISION OF HIGHWAYS EROSION AND SEDIMENT CONTROL MANUAL, DATED MARCH 1, 2003. IN THE EVENT THAT TEMPORARY EROSION AND SEDIMENT CONTROL MEASURES ARE REQUIRED DUE TO THE CONTRACTOR'S NEGLIGENCE, CARELESSNESS, OR FAILURE TO INSTALL PERMANENT CONTROLS AS PART OF THE WORK OR ORDERED BY THE ENGINEER, SUCH WORK SHALL BE PERFORMED BY THE CONTRACTOR AT THEIR OWN EXPENSE.

ELEVATIONS:

ALL ELEVATIONS SHOWN REFER TO THE US COAST & GEODETIC SURVEY. THE HORIZONTAL DATUM IS BASED NAD 83 WV NORTH STATE PLANE WHILE THE VERTICAL DATUM IS NAVD 88. ALL MAPPING WAS PERFORMED ON WV NORTH STATE PLANE.

COORDINATES:

COORDINATES SHOWN ON THESE PLANS ARE WEST VIRGINIA NORTH STATE PLANE COORDINATES NAD 83. GRID FACTORS ARE NOT REQUIRED WHEN MAKING FIELD MEASUREMENTS.

VERIFICATION OF PROFILE:

THE CONTRACTOR IS RESPONSIBLE FOR VERIFYING THE EXISTING GROUND LINE AS SHOWN ON THE PROFILES PRIOR TO THE START OF ANY CONSTRUCTION. ANY DISCREPANCIES SHALL IMMEDIATELY BE REPORTED TO THE PROJECT ENGINEER.

GUARDRAIL:

GUARDRAIL INSTALLATION WILL BE AS DIRECTED IN VOLUME I OF THE WEST VIRGINIA DEPARTMENT OF TRANSPORTATION DIVISION OF HIGHWAYS STANDARD DETAILS BOOK.

PAVEMENT MARKING NOTES:

1. EDGE LINES SHALL BE CENTERED 6" FROM THE EDGE OF THE PAVEMENT.
2. ALL MARKINGS SHALL BE CONTINUOUS AND CONSISTENT WITH EXISTING MARKINGS WHERE THEY JOIN.
3. NO MARKINGS SHALL BE PLACED ON EXPANSION JOINTS OR STRUCTURES OR ON LONGITUDINAL CONSTRUCTION JOINTS UNLESS SO DIRECTED BY THE ENGINEER.

PILING:

PILES SHALL BE PLACED IN PRE-DRILLED HOLES AND BACKFILLED WITH CONCRETE TO THE ESTIMATED BOTTOM OF LAGGING ELEVATION, AS SHOWN ON PLANS.

ALL COST FOR LAYING OUT THE PILING WALL, INCLUDING SURVEYING, CONCRETE BACKFILL AND FLUSH CUTTING AT FINAL TOP ELEVATION SHALL BE INCIDENTAL TO THE 614 PILING ITEMS.

ALL PILING SHALL CONFORM TO AASHTO M270, GRADE 50. MINIMUM NEW STOCK MATERIAL MAY BE USED FOR STEEL PILES PROVIDED THAT EACH PIECE CAN BE IDENTIFIED BY HEAT NUMBER AND PROVIDED THAT CERTIFIED MILL TEST REPORTS ARE FURNISHED TO THE DIVISION INDICATING THAT THE MATERIAL CONFORMS TO THE SPECIFICATIONS.

PILES SHALL BE PAINTED FROM TWO FEET BELOW GRADE TO TOP OF PILE. THE COLOR SHALL BE 36622 GRAY ACCORDING TO FEDERAL STANDARD SAE INTERNATIONAL AMS - STD 595 A AND THE GLOSS AT A 60 DEGREE ANGLE SHALL NOT EXCEED 25. PAINTING SHALL BE INCIDENTAL TO 614 PILING ITEMS.

ALL CONCRETE IN THE PRE-DRILLED HOLES SHALL BE CLASS B CONCRETE, $f_c = 3.0$ KSI, AND SHALL BE INCIDENTAL TO 614 PILING ITEMS.

DAMAGE TO EXISTING ROAD:

THE CONTRACTOR IS RESPONSIBLE FOR REPAIRING DAMAGE TO THE EXISTING ROADWAY AS A RESULT OF CONSTRUCTING THE WALL. ALL COSTS ASSOCIATED WITH ROADWAY REPAIRS WILL BE PAID FOR BY THE CONTRACTOR.

DRILLING OPERATIONS:

THE CONTRACTOR SHALL BE RESPONSIBLE FOR EVALUATING SITE SPECIFIC CONDITIONS AS RELATED TO THEIR DRILLING OPERATIONS. THIS INCLUDES DRILLING FOR THE STEEL VERTICAL PILES AND TIEBACK ANCHOR SYSTEM. TEMPORARY WORK PLATFORMS OR WORK AREAS NECESSARY TO PERFORM THESE OPERATIONS WILL BE THE RESPONSIBILITY OF THE CONTRACTOR AND NO ADDITIONAL COMPENSATION WILL BE PROVIDED.

ROCK ANCHORS:

ANCHOR AND ACCOMPANYING HARDWARE SHALL BE PRODUCED BY WILLIAMS FORM ENGINEERING CORP. OR A SUPPLIER WITH EQUIVALENT PRODUCTS. ALL ANCHOR COMPONENTS INCLUDING NUTS, END CAP, STEEL PLATES, AS WELL AS FABRICATION OF GUSSETS AND STIFFENERS SHALL BE PAID UNDER THE 614 PILING ITEMS.

ANCHORS SHOULD NOT BE SUBJECT TO THE HEAT OF A TORCH, WELDING OR USED AS A GROUND. FIELD CUTTING SHOULD BE DONE WITH AN ABRASIVE WHEEL OR BAND SAW.

THE 150 KSI BARS SHALL BE PRODUCED FROM AN ALLOY BASED STEEL THAT IS HOT ROLLED, QUENCHED AND TEMPERED TO PRODUCE THE PRESCRIBED MECHANICAL PROPERTIES OF ASTM A722.

IF THE CONTRACTOR WISHES TO USE ANCHORS AND OR MATERIALS NOT SPECIFIED WITHIN THE PLANS, THE CONTRACTOR SHALL PREPARE A COMPLETE DESIGN PER SPECIAL PROVISION 628.

ANCHOR PREPARATION, INSTALLATION, AND TESTING SHALL BE CONDUCTED IN ACCORDANCE WITH SPECIAL PROVISION 628.

THE MAXIMUM SERVICE LOAD APPLIED TO AN INDIVIDUAL ANCHOR "P" IS 74,000 LBS AND SHALL BE USED FOR TESTING ANCHORS.

TEMPORARY SHORING:

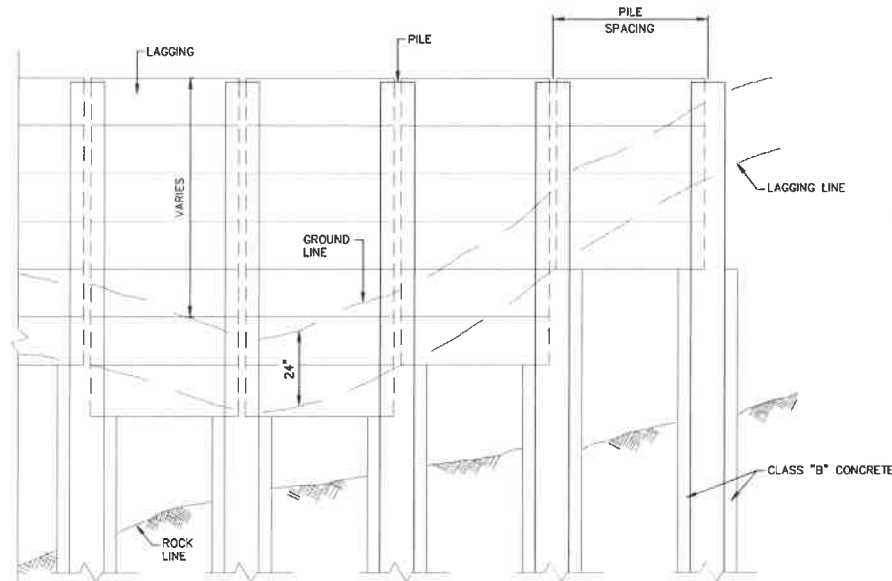
TEMPORARY SHORING REQUIRED SHALL BE PAID FOR AS SHORING, ITEM 212010-003. TEMPORARY SHORING SHALL BE DESIGNED BY A PROFESSIONAL ENGINEER REGISTERED IN THE STATE OF WEST VIRGINIA.

RAIL LINE CLOSURE:

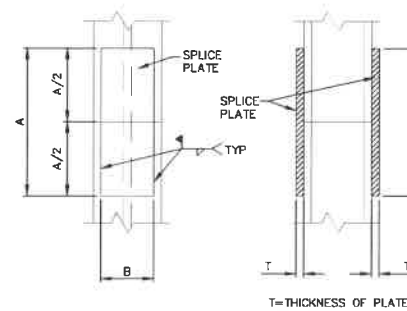
CLOSURE OF THE RAIL LINE IS ONLY PERMITTED BETWEEN THURSDAY AFTERNOON AND MONDAY MORNING. THE INTENT FOR THIS PROJECT IS THAT THE RAIL LINE BE CLOSED ONLY ONE TIME THROUGHOUT THE DURATION OF THE PROJECT. THE CONTRACTOR SHALL COORDINATE WITH THE WEST VIRGINIA STATE RAIL AUTHORITY TO ESTABLISH THE EXACT TIME OF SHUTDOWN.

<div style="display: flex; align-items: center;"> <div> J.B. TURMAN ENGINEERING, PLLC P.O. Box 483 Bourboursville, WV 25504 www.jbtengineering.com </div> </div>	DESIGNED	DATE	CHECKED	DATE	SOUTH BRANCH VALLEY RAILROAD BRIDGE 6.50 OVER WEST VIRGINIA ROUTE 28	THE WEST VIRGINIA DEPARTMENT OF TRANSPORTATION STATE RAIL AUTHORITY GENERAL NOTES (SHEET 2 OF 2)	6.50
	DRAWN	DATE	REVIEWED	DATE			
	EH	27 JAN 22	BT	28 JAN 22			
	EH	27 JAN 22	BT	28 JAN 22			

PUBLIC ROADS DIV.	STATE DIST. NO.	STATE PROJECT NO.	FEDERAL PROJECT NO.	FISCAL YEAR	COUNTY	SHEET NO.	TOTAL SHEETS
WV	5	S314-SBV/RR-6.50 02	N/A	2022	HAMPSHIRE	6	24

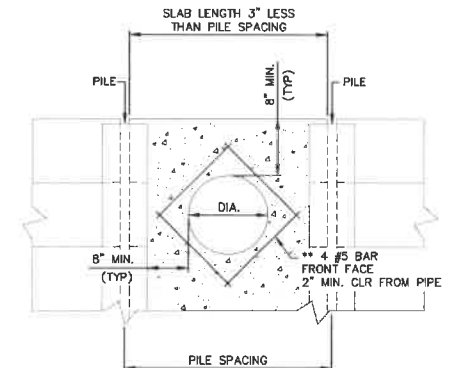


PILING TYPICAL FRONT ELEVATION VIEW



SPLICE DETAIL

PILING SIZE	A (INCHES)	B (INCHES)	T (INCHES)	WELD SIZE
HP14X73	65	13.75	0.625	0.3125
HP14X117	87	14.00	0.875	0.3125



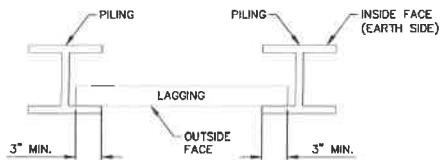
CAST-IN-PLACE
PIPE PENETRATION
DETAIL (IF REQUIRED)

** REBAR ARE IN ADDITION TO REQUIRED #5 BAR AS SHOWN IN THE END VIEW DETAIL, THIS SHEET. MINIMUM THICKNESS TO BE EQUAL TO PRECAST LAGGING.

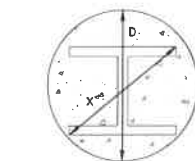
6" PIPE - 4 #5, 12 INCHES IN LENGTH

NOTE:

LAGGING SHALL BE IN CONTACT WITH PILING AT ALL FACES. METHOD SHALL BE APPROVED TO HOLD LAGGING IN PLACE DURING BACKFILL OPERATIONS.

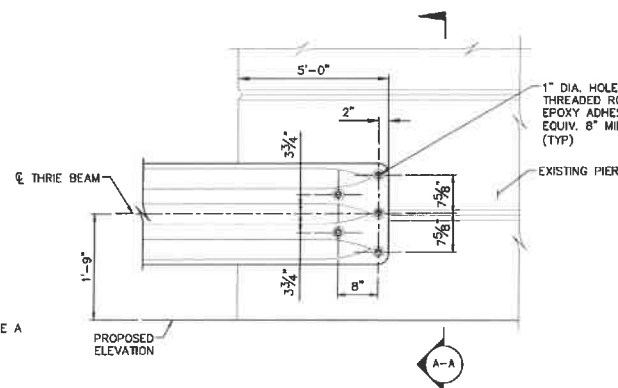


CONCRETE LAGGING
DETAIL



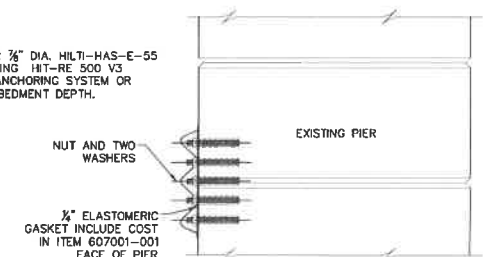
NOTE:

DIAMETER (D) OF DRILLED HOLE SHALL BE A MINIMUM OF 2 INCHES GREATER THAN DIAGONAL (X) MEASUREMENT OF PILING.



THRIE BEAM ATTACHMENT

(SOUTH ATTACHMENT SHOWN, NORTH ATTACHMENT SIMILAR)
(SEE WOOD STANDARD DETAILS FOR MORE INFORMATION)



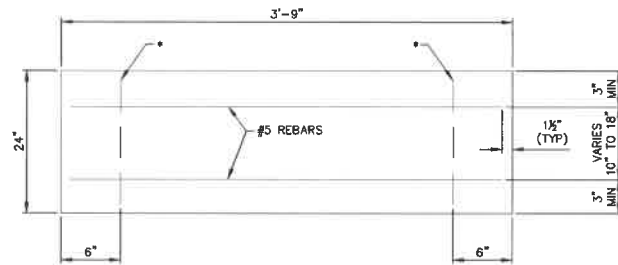
SECTION A-A

DESIGNED	DATE	CHECKED	DATE	SOUTH BRANCH VALLEY RAILROAD BRIDGE 6.50 OVER WEST VIRGINIA ROUTE 28	THE WEST VIRGINIA DEPARTMENT OF TRANSPORTATION STATE RAIL AUTHORITY	SPECIAL DETAILS (SHEET 1 OF 2)	6.50
EH	27 JAN 22	BT	28 JAN 22				
DRAWN	DATE	REVIEWED	DATE				
EH	27 JAN 22	BT	28 JAN 22				

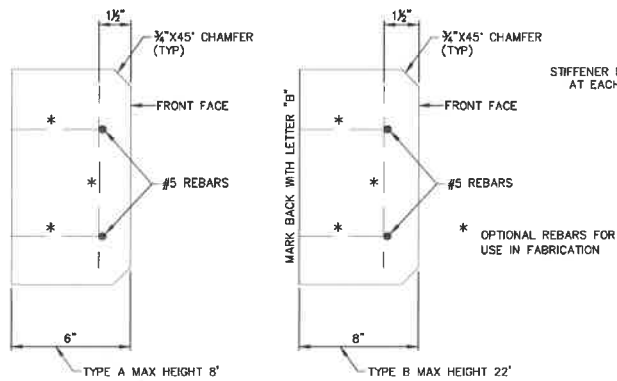


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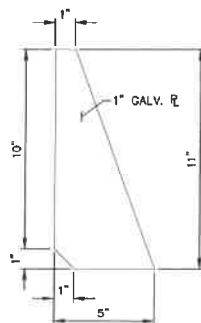
PUBLIC ROADS DIV.	STATE DIST. NO.	STATE PROJECT NO.	FEDERAL PROJECT NO.	FISCAL YEAR	COUNTY	SHEET NO.	TOTAL SHEETS
WV	5	SS14-SB4/RR-6.50	N/A	2022	HAMPSHIRE	7	24



ELEVATION VIEW LAGGING



END VIEW



GUSSET PLATE

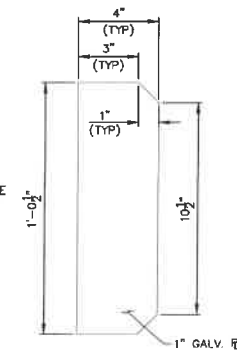
NOTES:

2 GUSSET PLATES AND 2 STIFFENER PLATES REQUIRED AT EACH ANCHOR LOCATION.

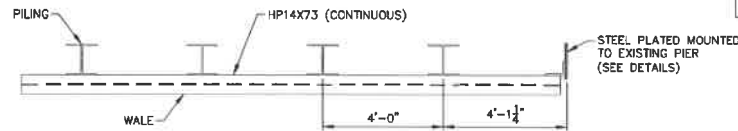
PLATES SHALL BE OFFSET 2" FROM THE ANCHOR CENTERLINE ON EITHER SIDE OF THE ANCHOR.

1 STIFFENER PLATE REQUIRED AT EACH PILE LOCATION.

SEE WALE DETAIL FOR STIFFENER AND GUSSET PLATE LAYOUT.

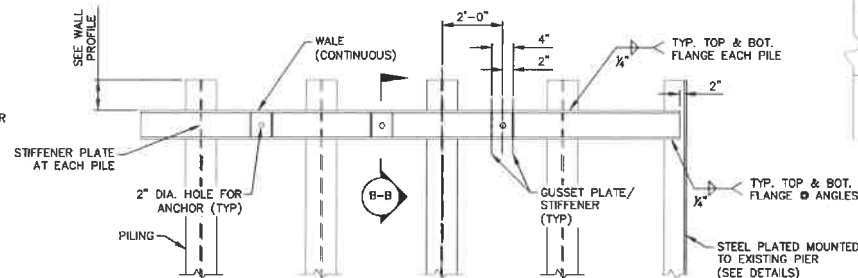


STIFFENER PLATE

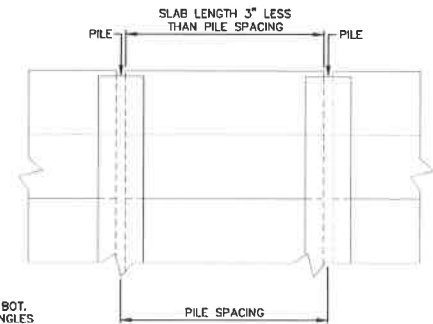


WALE DETAIL
TOP

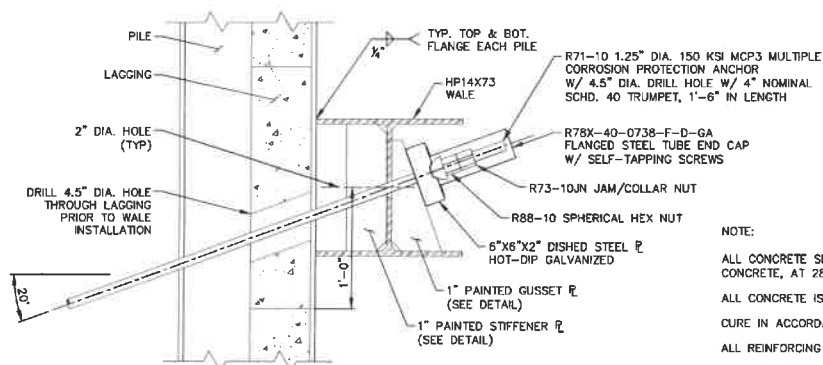
NOTE:
WALE SHALL BE ONE CONTINUOUS PIECE.
SPICES ARE NOT PERMITTED.



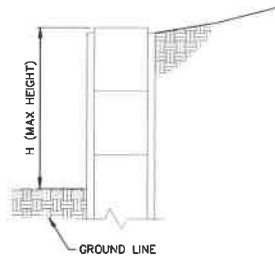
WALE DETAIL
SIDE



ELEVATION OF WALL



SECTION B-B



WALL SECTION

NOTE:

ALL CONCRETE SHALL BE CLASS "B". COMPRESSIVE STRENGTH OF CONCRETE, AT 28 DAYS, (f'c) SHALL NOT BE LESS THAN 3000 PSI.

ALL CONCRETE IS TO BE AIR-ENTRAINED 7% NOT TO EXCEED ±2.5%.

CURE IN ACCORDANCE TO M-199.

ALL REINFORCING STEEL SHALL BE GRADE 60 KSI.

ANCHOR AND ACCOMPANYING HARDWARE SHALL BE PRODUCED BY WILLIAMS FORM ENGINEERING CORP. OR A SUPPLIER WITH EQUIVALENT PRODUCTS.

PILES, WALER, STIFFENER PLATES AND GUSSET PLATES SHALL BE PAINTED.

THE ANCHOR AND ALL ANCHOR COMPONENTS INCLUDING NUTS, END CAP, STEEL PLATES, AS WELL AS FABRICATION OF GUSSETS AND STIFFENERS SHALL BE PAID UNDER ITEM 628007-001, ROCK ANCHORS, INSTALLED.

REVISION	SHEET NUMBER	REVISION	DATE	BY



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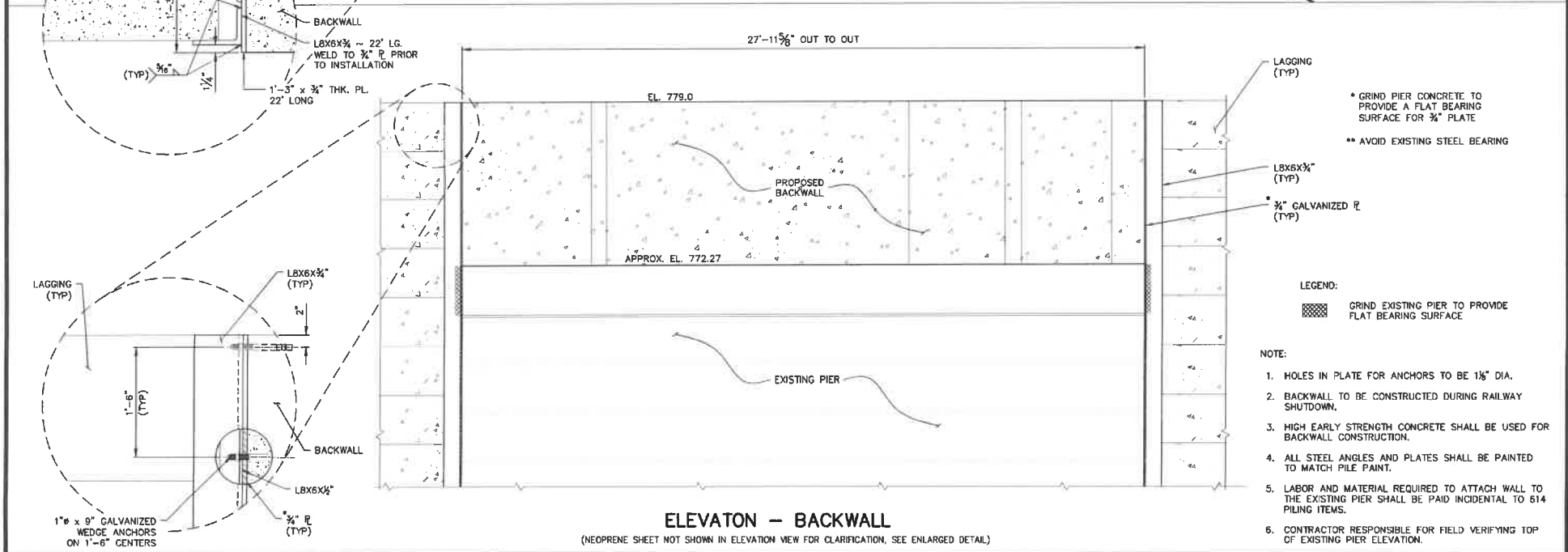
DESIGNED	DATE	CHECKED	DATE
EH	27 JAN 22	BT	28 JAN 22
DRAWN	DATE	REVIEWED	DATE
EH	27 JAN 22	BT	28 JAN 22

**SOUTH BRANCH VALLEY
RAILROAD BRIDGE 6.50
OVER WEST VIRGINIA ROUTE 28**

THE WEST VIRGINIA DEPARTMENT OF TRANSPORTATION
STATE RAIL AUTHORITY

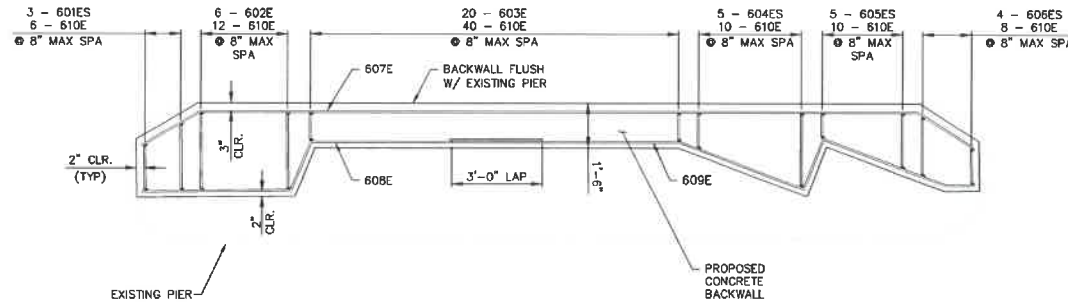
SPECIAL DETAILS (SHEET 2 OF 2)

6.50

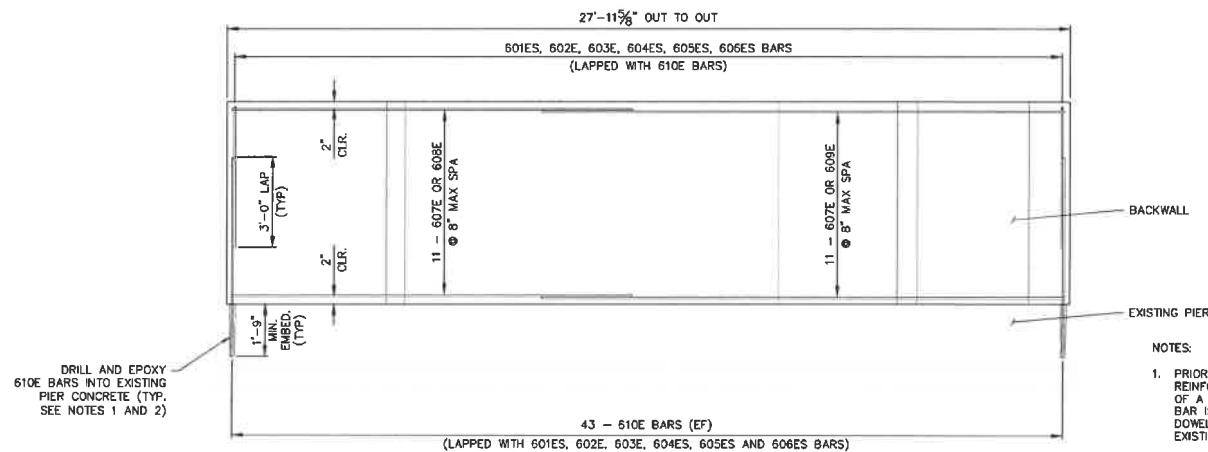


DESIGNED	DATE	CHECKED	DATE	SOUTH BRANCH VALLEY RAILROAD BRIDGE 6.50 OVER WEST VIRGINIA ROUTE 28	THE WEST VIRGINIA DEPARTMENT OF TRANSPORTATION STATE RAIL AUTHORITY BACKWALL DETAILS (SHEET 1 OF 3)	6.50
EH	27 JAN 22	BT	28 JAN 22			
DRAWN	DATE	REVIEWED	DATE			
EH	27 JAN 22	BT	28 JAN 22			

PUBLIC ROADS DIV.	STATE DIST. NO.	STATE PROJECT NO.	FEDERAL PROJECT NO.	FISCAL YEAR	COUNTY	SHEET NO.	TOTAL SHEETS
WV	5	5314-SBV/RR-6.50 02	N/A	2022	WV	9	24



BACKWALL REINFORCEMENT LAYOUT - PLAN



NOTES:

1. PRIOR TO DRILLING DOWEL HOLES, LOCATE ALL EXISTING REINFORCING STEEL BARS IN THE AREA OF THE HOLE WITH THE AID OF A PACHOMETER OR OTHER APPROVED METHOD. IF AN EXISTING BAR IS ENCOUNTERED AT THE SAME LOCATION AS A PROPOSED DOWEL HOLE, MOVE THE DOWEL HOLE TO EITHER SIDE OF THE EXISTING BAR WHILE MAINTAINING THE SPECIFIED CLEAR COVER.
2. EPOXY ADHESIVE SHALL BE ADHESIVE ANCHOR HIT-HY 200 SYSTEM MANUFACTURED BY HILTI OR APPROVED EQUAL. HOLE SIZE, CLEANING OF DRILLED HOLES, AND REINFORCING STEEL INSTALLATION SHALL BE IN ACCORDANCE WITH MANUFACTURER'S SPECIFICATIONS. PAYMENT SHALL BE INCLUDED IN ITEM 601037-001, DOWEL HOLE, 1'-9" MINIMUM DEPTH WITH EPOXY ADHESIVE.
3. CHAMFER ALL EXPOSED EDGES OF CONCRETE BACKWALL $\frac{3}{4}$ ".

BACKWALL REINFORCEMENT LAYOUT - ELEVATION

DESIGNED	DATE	CHECKED	DATE	SOUTH BRANCH VALLEY RAILROAD BRIDGE 6.50 OVER WEST VIRGINIA ROUTE 28	THE WEST VIRGINIA DEPARTMENT OF TRANSPORTATION STATE RAIL AUTHORITY BACKWALL DETAILS (SHEET 2 OF 3)	6.50
EH	27 JAN 22	BT	28 JAN 22			
DRAWN	DATE	REVIEWED	DATE			
EH	27 JAN 22	BT	28 JAN 22			

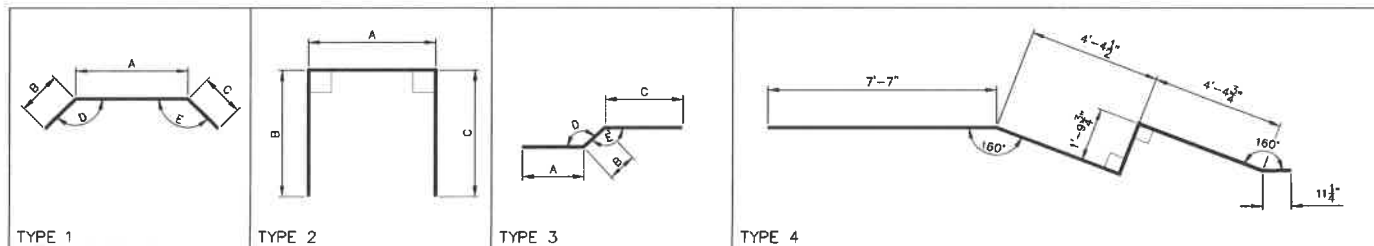


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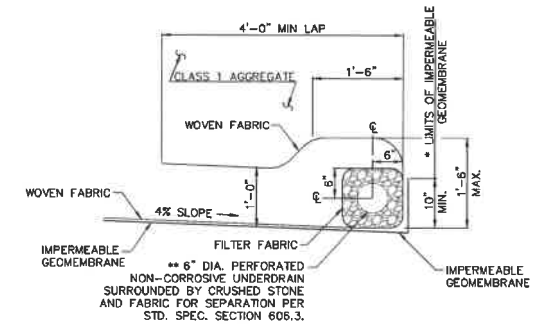
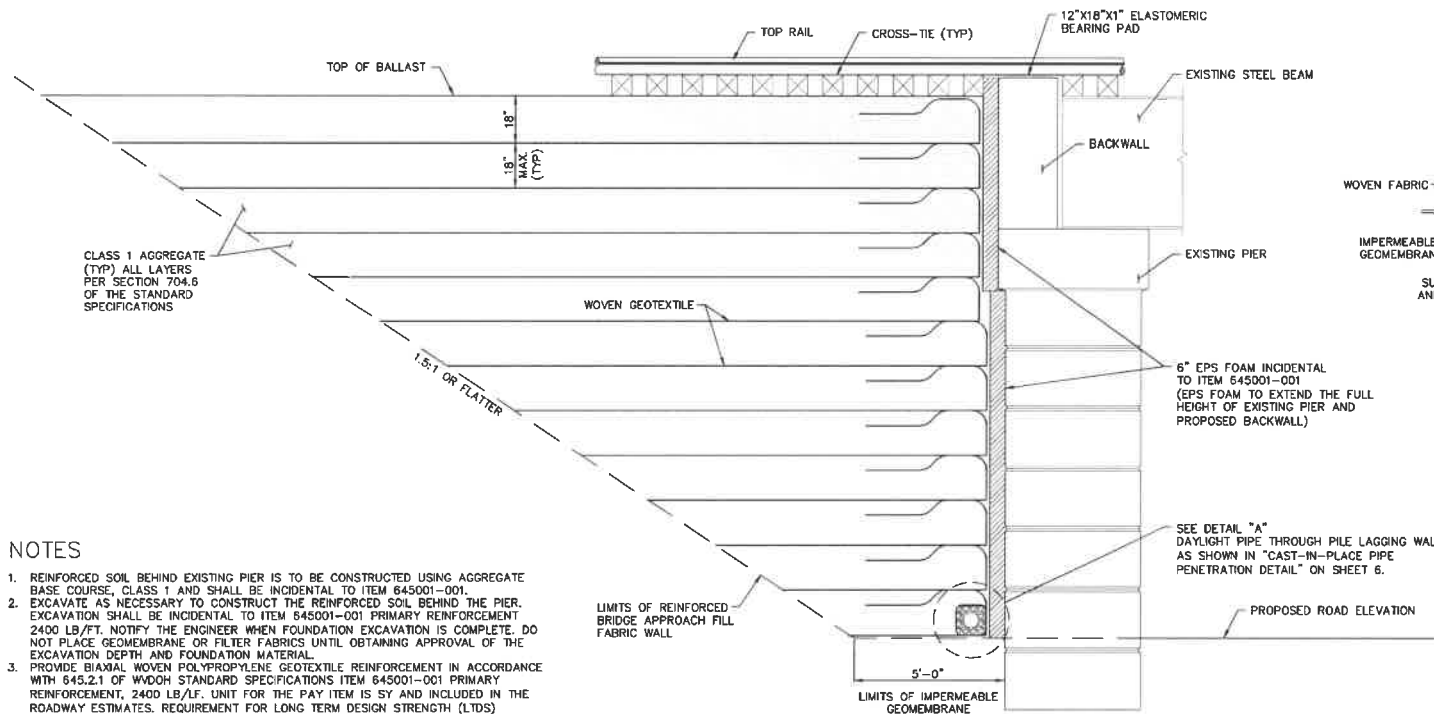
REVISION	SHEET NUMBER	REVISION	DATE	BY

PUBLIC ROADS DIV.	STATE DIST. NO.	STATE PROJECT NO.	FEDERAL PROJECT NO.	FISCAL YEAR	COUNTY	SHEET NO.	TOTAL SHEETS
WV	5	S314-SBV/RR-6.50 (2)	N/A	2022	HAMPSHIRE	10	24

BACKWALL REINFORCEMENT									
MARK	TYPE	NUMBER REQUIRED	LENGTH (FT)	602002-001	DIMENSION				
601ES	2	3	VARIES FROM 11'-0" TO 11'-9" BY 4½"	52	VARIES	4'-9"	4'-9"		
602E	2	6	12'-0"	109	2'-6"	4'-9"	4'-9"		
603E	2	20	10'-6"	316	1'-0"	4'-9"	4'-9"		
604ES	2	5	VARIES FROM 10'-8" TO 11'-11" BY 3¾"	85	VARIES	4'-9"	4'-9"		
605ES	2	5	VARIES FROM 10'-3" TO 11'-4" BY 3¾"	82	VARIES	4'-9"	4'-9"		
606ES	2	4	VARIES FROM 10'-8" TO 11'-6" BY 3¾"	67	VARIES	4'-9"	4'-9"		
607E	1	11	28'-3"	467	23'-10"	2'-3"	2'-2"	150'	150'
608E	3	11	14'-5"	239	5'-0"	1'-9"	7'-8"	112'	112'
609E	4	11	19'-1"	316	SEE DIAGRAM				
610E	STR	86	6'-8"	862					
TOTAL				2,595					



PUBLIC ROADS DIV.	STATE DIST. NO.	STATE PROJECT NO.	FEDERAL PROJECT NO.	FISCAL YEAR	COUNTY	SHEET NO.	TOTAL SHEETS
WV	5	SS14-SB/RR-6.50 02	N/A	2022	HAIRSBRE	11	24




** NOTE - THE ACTUAL LOCATION OF THE UNDERDRAIN TO BE DETERMINED BY ELEVATION OF LOCAL WATER TABLES.

DETAIL A

NOTES

1. REINFORCED SOIL BEHIND EXISTING PIER IS TO BE CONSTRUCTED USING AGGREGATE BASE COURSE, CLASS 1 AND SHALL BE INCIDENTAL TO ITEM 645001-001.
2. EXCAVATE AS NECESSARY TO CONSTRUCT THE REINFORCED SOIL BEHIND THE PIER. EXCAVATION SHALL BE INCIDENTAL TO ITEM 645001-001 PRIMARY REINFORCEMENT 2400 LB/FT. NOTIFY THE ENGINEER WHEN FOUNDATION EXCAVATION IS COMPLETE. DO NOT PLACE GEOMEMBRANE OR FILTER FABRICS UNTIL OBTAINING APPROVAL OF THE EXCAVATION DEPTH AND FOUNDATION MATERIAL.
3. PROVIDE BIAXIAL WOVEN POLYPROPYLENE GEOTEXTILE REINFORCEMENT IN ACCORDANCE WITH 645.2.1 OF WOODH STANDARD SPECIFICATIONS ITEM 645001-001 PRIMARY REINFORCEMENT, 2400 LB/LF. UNIT FOR THE PAY ITEM IS SY AND INCLUDED IN THE ROADWAY ESTIMATES. REQUIREMENT FOR LONG TERM DESIGN STRENGTH (LTD5) REFERENCED IN 645.2.1 IS REPLACED BY WIDE TENSILE STRENGTH AT ULTIMATE WITH A MINIMUM AVERAGE ROLL VALUE OF 2400 LB/FT AT 2% STRAIN. REQUIREMENT FOR BACKFILL MATERIAL IDENTIFIED IN 645.2.2 IS REPLACED BY AGGREGATE BASE COURSE, CLASS 1, ITEM 307001-000.
4. OVERLAP ADJACENT FABRICS A MINIMUM OF 18" SUCH THAT OVERLAPS ARE PARALLEL TO THE RAILWAY CENTERLINE. CONTACT THE ENGINEER WHEN INTERFERENCE WITH EXISTING STRUCTURE OR UTILITIES.
5. INSTALL WOVEN FABRICS WITH THE MACHINE DIRECTION (MD) PARALLEL TO THE RAILWAY CENTERLINE. THE MD IS THE DIRECTION OF THE LENGTH OR LONG DIRECTION OF THE ROLL. DO NOT SPLICE OR DEVELOP WOVEN FABRICS IN THE MD SUCH THAT SPLICES OR OVERLAPS ARE PERPENDICULAR TO THE RAILWAY CENTERLINE. INSTALL WOVEN FABRICS WITH THE ORIENTATION, DIMENSION, AND NUMBER OF LAYERS SHOWN ON THE PLANS. WRAP WOVEN FABRICS AS SHOWN.
6. PLACE CLASS 1 AGGREGATE IN 6 INCH LIFTS. DO NOT OPERATE HEAVY EQUIPMENT ON GEOTEXTILE UNTIL THEY ARE COVERED WITH AT LEAST 8" OF CLASS 1 AGGREGATE. USE ONLY HAND OPERATED COMPACTION EQUIPMENT WITHIN 3 FT. OF THE PIER OR PILE LAGGING WALL. AT A DISTANCE GREATER THAN 3 FT, COMPACT IN ACCORDANCE WITH SECTION 307 OF THE STANDARD SPECIFICATIONS.
7. ELASTICIZED EXPANDED POLYSTYRENE (EPS) SHALL BE IN ACCORDANCE WITH SPECIAL PROVISION 645 REINFORCED SOIL SLOPES AND SHALL BE INCIDENTAL TO ITEM 645001-001.

TYPICAL SECTION THROUGH PIER BACKFILL

<div>  <div> J.B. TURMAN ENGINEERING, PLLC P.O. Box 483 Barboursville, WV 25504 www.jbtengineering.com </div> </div>				DESIGNED EH	DATE 27 JAN 22	CHECKED BT	DATE 28 JAN 22	SOUTH BRANCH VALLEY RAILROAD BRIDGE 6.50 OVER WEST VIRGINIA ROUTE 28	THE WEST VIRGINIA DEPARTMENT OF TRANSPORTATION STATE RAIL AUTHORITY PIER BACKFILL DETAIL	6.50
<div> <div> REVISION SHEET NUMBER </div> <div> REVISION DATE BY </div> </div>				DRAWN EH	DATE 27 JAN 22	REVIEWED BT	DATE 28 JAN 22			

PUBLIC ROADS DIV.	STATE PROJECT NO.	STATE PROJECT NO.	FEDERAL PROJECT NO.	FISCAL YEAR	COUNTY	SHEET NO.	TOTAL SHEETS
WV	5	5314-SEV/RR-6.50	N/A	2022	HAMPSHIRE	12	24

TEMPORARY TRAFFIC CONTROL SUMMARY OF QUANTITIES

ITEM NO.	DESCRIPTION	QUANTITY	
		UNIT	TOTAL
636002-002	AGGREGATE FOR MAINTAINING TRAFFIC, SLAG	TON	--
636002-001	AGGREGATE FOR MAINTAINING TRAFFIC, STONE OR GRAVEL	TON	--
636003-001	BITUMINOUS MATERIAL FOR DUST PALLIATIVE	GAL	--
636004-001	CALCIUM CHLORIDE FOR DUST PALLIATIVE	TON	--
636005-001	TEMPORARY STRUCTURES FOR MAINTAINING TRAFFIC	LS	--
636006-001	PILOT TRUCK AND DRIVER	DAY	--
636007-001	ERADICATION OF PAVEMENT MARKING	LF	24
636008-002	TEMPORARY PAVEMENT MARKINGS - PAINT 6-IN SOLID LINE, TYPE VIC	LF	--
636009-001	TEMPORARY PAVEMENT MARKINGS - TAPE 4-IN SOLID LINE, TYPE VIC	LF	--
636010-003	TEMPORARY RAISED PAVEMENT MARKER	EA	--
636011-001	TRAFFIC CONTROL DEVICES	UNIT	4240
636012-010	PROJECT TRAFFIC CONTROL DEVICE CLEANING	EA	1
636013-001	INDIVIDUAL TRAFFIC CONTROL DEVICE CLEANING	EA	40
636014-001	FLAGGER	HR	200
636014-002	TRAFFIC DIRECTOR	HR	--
636015-001	TEMPORARY GUARDRAIL CHANNELIZATION DEVICE	LF	--
636017-004	TEMPORARY BARRIER, TL-2, I	LF	--
636017-005	TEMPORARY BARRIER, TL-3, I	LF	360
636016-001	REMOVE AND RESET TEMP. GUARDRAIL CHANNELIZATION DEVICE	LF	--
636017-001	TEMPORARY CONCRETE BARRIER	LF	--
636017-002	DOH FURNISHED TEMPORARY CONCRETE BARRIER	LF	--
636018-001	REMOVE AND RESET TEMPORARY CONCRETE BARRIER	LF	--
636018-002	REMOVE AND RESET DOH FURNISHED TEMP. CONCRETE BARRIER	LF	--
636018-003	REMOVE AND RESET TEMPORARY BARRIER	LF	--
636019-001	TEMPORARY GUARDRAIL BARRIER	LF	--
636020-001	REMOVE AND RESET TEMPORARY GUARDRAIL BARRIER	LF	--
636021-001	ELECTRIC ARROW	DAY	--
636022-001	CHANGEABLE MESSAGE SIGN	DAY	254
636023-001	TEMPORARY TRAFFIC SIGNAL, C1	MO	8
636023-002	TEMPORARY TRAFFIC SIGNAL, C2	MO	8
636024-001	TEMPORARY PIPE FOR MAINTAINING TRAFFIC	LF	--
636025-001	WARNING LIGHTS, TYPE A	DAY	--
636025-001	WARNING LIGHTS, TYPE B	DAY	1620
636025-001	WARNING LIGHTS, TYPE C	DAY	--
636026-001	TEMPORARY LIGHTING, C1	LS	--
636028-001	SHADOW VEHICLE	DAY	--
636030-001	SPEED MONITORING TRAILER	DAY	--
636050-001	TEMPORARY IMPACT ATTENUATING DEVICE	EA	--
636060-002	REMOVE AND RESET ATTENUATOR DEVICE	EA	--
663005-011	STOP LINE, TYPE V - 24 IN.	LF	24
664006-010	GLARE BARRIER, TYPE V	LF	--

SEQUENCE OF CONSTRUCTION

PHASE 1:
PLACE CHANGEABLE MESSAGE SIGN ON EACH END OF THE WORK AREA ONE WEEK (7 DAYS) PRIOR TO ANY CONSTRUCTION. INSTALL TRAFFIC CONTROL DEVICES FOR CASE D5B. SEE NOTE 13 FOR ADDITIONAL SIGN TO BE PLACED ON THE PROJECT FOR THE DURATION OF TRAFFIC SET-UP.

PHASE 2:
REMOVE GUARDRAIL AS NEEDED TO PROVIDE ACCESS TO WORK AREA.

PHASE 3:
PERFORM RETAINING WALL CONSTRUCTION, DISMANTLE STRUCTURE, BACKFILL OPERATIONS, AND OTHER ITEMS AS DETAILED IN THE PLANS.

PHASE 4:
RESET GUARDRAIL. PERFORM FINAL SEEDING AND MULCHING OPERATIONS, AND REMOVE ALL TEMPORARY TRAFFIC CONTROL DEVICES.


TEMPORARY TRAFFIC CONTROL DEVICE QUANTITIES

DEVICE	DESCRIPTION	VALUE IN UNITS	TOTAL QUANT.	TOTAL UNITS
* 1	SIGNS ON PORTABLE MOUNTS AND BARRICADES. (TOTAL SIGN AREA 16 S.F. OR GREATER.)	170	2	340
* 2	SIGNS ON PORTABLE MOUNTS AND BARRICADES. (TOTAL SIGN AREA LESS THAN 16 S.F.)	80	--	--
* 3	SIGNS ON PERMANENT POSTS. (TOTAL SIGN AREA 16 S.F. OR GREATER.)	180	10	1800
* 4	SIGNS ON PERMANENT POSTS. (TOTAL SIGN AREA LESS THAN 16 S.F.)	90	10	900
** 5	BARRICADES - TYPE I	35	--	--
** 6	BARRICADES - TYPE II	60	--	--
** 7	BARRICADES - TYPE III	90	4	360
** 8	DRUMS	60	14	840
9	CONES	5	--	--
10	VERTICAL PANELS OR GROUND MOUNTED DELINEATORS	10	--	--
11	BARRIER OR GUARDRAIL MOUNTED DELINEATORS (TO BE BID INCIDENTAL TO THE COST OF THE BARRIER OR GUARDRAIL)	0	--	--
12	TEMPORARY OVERLAYS AND TEMPORARY OVERSIZE SIGNS (INCLUDES 4 GIVE'EM A BRAKE SIGNS + 4 MAX FINES SIGNS)	300	--	--
13	CHANNELIZER CONES	40	--	--
DELINEATORS				
* - ORANGE SIGN SHEETING TO BE REFLECTIVE FLOURESCENT ORANGE, TYPE V				
** - BARRICADES AND DRUM SHEETING TO BE 6" FLEXIBLE HIGH INTENSITY, TYPE III				
		TOTAL		4240

TEMPORARY TRAFFIC CONTROL NOTES

- TEMPORARY TRAFFIC CONTROL SHALL BE IN ACCORDANCE WITH SECTION 636 OF THE WEST VIRGINIA DEPARTMENT OF TRANSPORTATION, DIVISION OF HIGHWAYS, STANDARD SPECIFICATIONS, ROADS AND BRIDGES ADOPTED 2017 AND 2022 ADDENDUMS, THE CONTRACT DOCUMENTS AND CONTRACT PLANS ARE THE GOVERNING PROVISIONS APPLICABLE TO THIS PROJECT, AND THE "MANUAL ON TEMPORARY TRAFFIC CONTROL FOR STREETS AND HIGHWAYS", 2006 EDITION, WHICH IS MADE A PART OF THIS CONTRACT AND THE TEMPORARY TRAFFIC CONTROL PLAN FOR INDIVIDUAL SEGMENTS AS DESCRIBED BELOW.
- REFLECTIVE SHEETING ON TEMPORARY TRAFFIC CONTROL DEVICES SHALL BE OF NEW CONDITION AT THE BEGINNING OF THE PROJECT LIFE. NIGHT VISIBILITY AND LEGIBILITY SHALL BE MAINTAINED.
- ACCESS TO ALL HOUSES AND BUSINESSES SHALL BE MAINTAINED AT ALL TIMES. ACCESS TO ALL PUBLIC PARKING AREAS TO BE MAINTAINED AT ALL TIMES.
- TRAFFIC SHALL BE MAINTAINED AT ALL TIMES THROUGH THE WORK AREA UNLESS OTHERWISE APPROVED BY THE ENGINEER. WORK IN ANY ONE AREA MAY BE COMBINED WITH ANY OTHER OPERATION IN THE SAME AREA PROVIDING THE COMBINED OPERATIONS DO NOT CAUSE UNDUE DELAY TO TRAFFIC.
- FLAGGER: WHEN WORK IS PERFORMED AT NIGHT WITH A FLAGGER, THE FLAGGER STATIONS SHALL BE ADEQUATELY ILLUMINATED. THE COST SHALL BE PAID FOR AS PART OF ITEM 636014-001, "FLAGGER".
- EXISTING SIGNS AND DELINEATORS: ANY SUCH FACILITIES RELOCATED, REMOVED, OR DAMAGED BY THE CONTRACTOR SHALL BE REPLACED TO ITS ORIGINAL CONDITION BY THE CONTRACTOR AT HIS EXPENSE AS PART OF ITEM 636011-001, "TRAFFIC CONTROL DEVICE", UNLESS REPLACED BY FINAL SIGNING.
- WHEN COVERING EXISTING SIGNS, THE CONTRACTOR HAS THE OPTIONS OF USING: A. HEAVY DUTY BLACK OVERLAY (PLASTIC OR BURLAP TYPE), B. THIN WOOD OVERLAY (E.G. PLYWOOD), C. TAKING SIGNS DOWN AND REINSTALLING WHEN APPROPRIATE, D. ANY DAMAGES CAUSED BY ABOVE-NAMED SHALL BE REPAIRED/REPLACED TO ORIGINAL CONDITION AT CONTRACTORS EXPENSE, E. ALL ABOVE OPERATIONS SHALL BE BID INCIDENTAL TO ITEM 636011-001, "TRAFFIC CONTROL DEVICE".
- TYPE "B" WARNING LIGHTS SHALL BE USED ON THIS PROJECT. THESE LIGHTS SHALL BE PLACED ON SIGNS AS INDICATED IN THE TEMPORARY TRAFFIC CONTROL PLANS. THESE LIGHTS SHALL BE BID PER DAY UNDER ITEM NUMBER 636025-001.
- CHANGEABLE MESSAGE SIGN: CHANGEABLE MESSAGE SIGNS SHALL BE PLACED AT EACH END OF THE PROJECT LIMITS FOR 1 WEEK (7 DAYS) PRIOR TO START OF CONSTRUCTION ACTIVITIES. THE MESSAGE TO BE DISPLAYED ON THE SIGNS WILL BE PROVIDED BY THE ENGINEER. THESE SIGNS SHALL BE BID PER DAY UNDER ITEM NUMBER 636022-001.
- WINTER SHUTDOWN FOR PAVEMENT ACTIVITIES: FOR PORTIONS OF THE PROJECT WHERE A WINTER SHUTDOWN IS APPLICABLE, THE PROJECT AREA AND ATTENDANT ROADWAY (TRAVEL LANES AND SHOULDERS, ETC.) SHALL BE LEFT IN A "SQUARED OFF"/EASILY TRAVERSABLE, SAFE CONDITION THAT IS PRE-AGREED UPON BY THE ENGINEER. SUCH WILL INCLUDE, BUT NOT BE LIMITED TO, PAVEMENT MARKINGS (TEMPORARY PAVEMENT MARKINGS), SIGNING, RIDEABLE PAVEMENT, AND NECESSARY GUARDRAIL-BARRIER, ETC., AS NOTED ON THE PLANS AND AS APPROPRIATE. TRAFFIC CONTROL DEVICES THAT ARE NOT NEEDED OR DESIRED SHALL BE EITHER REMOVED OR COVERED AND ALL SUCH SHALL BE BID INCIDENTAL TO ITEM 636011-001, "TRAFFIC CONTROL DEVICE".
- NOTICE TO CONTRACTORS: IT IS IMPERATIVE THAT STRICT COORDINATION BETWEEN CONTRACTORS BE AGREED ON IN REFERENCE TO LANE CLOSURES, WORKING PLAN AND STORAGE AREAS. THIS PLAN SHALL BE PRESENTED TO THE ENGINEER IN WRITING FOR THEIR APPROVAL.
- FLAGGERS USED FOR THE CONVENIENCE OF THE CONTRACTOR WILL BE INCIDENTAL TO ITEM 636011, TRAFFIC CONTROL DEVICE.
- ON THE NORTH END OF THE PROJECT, PLACE A CHANGEABLE MESSAGE SIGN FOR THE DURATION OF THE PROJECT LOCATED BETWEEN 1/4 MILE TO 1 MILE FROM THE SIGNAL WITH THE MESSAGE "TRAFFIC SIGNAL AHEAD, BE PREPARED TO STOP".
- CONTACT KENNETH L. CLOHAN, JR., P.E. DISTRICT 5 TRAFFIC ENGINEER AT 304-260-4392 AT LEAST 48 HOURS IN ADVANCE OF TRAFFIC CONTROL SETUP TO REVIEW LAYOUT AND PROVIDE SIGNAL TIMING.

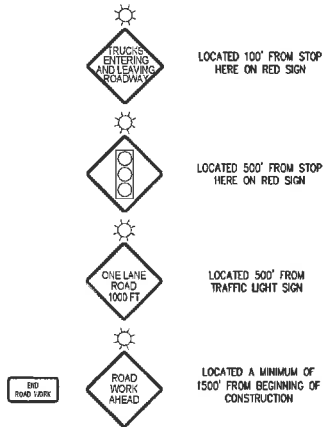
TTCP-1

								J.B. TURMAN ENGINEERING, PLLC P.O. Box 483 Borboardsville, WV 25504 www.jbtengineering.com				DESIGNED EN DATE 27 JAN 22 CHECKED BT DATE 28 JAN 22				SOUTH BRANCH VALLEY RAILROAD BRIDGE 6.50 OVER WEST VIRGINIA ROUTE 28				THE WEST VIRGINIA DEPARTMENT OF TRANSPORTATION STATE RAIL AUTHORITY				MAINTENANCE OF TRAFFIC NOTES				6.50			
REVISION NUMBER		SHEET NUMBER		REVISION		DATE		BY		DRAWN EN DATE 27 JAN 22 REVIEWED BT DATE 28 JAN 22																					

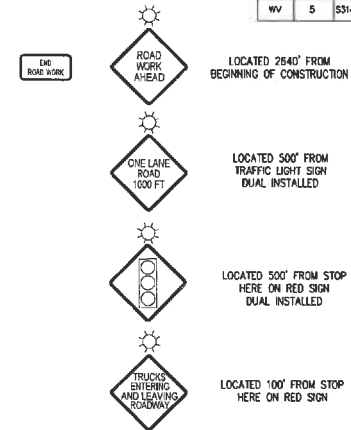
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P.O. Box 483
Barboursville, WV 25504
www.jbtengineering.com

THE WEST VIRGINIA DEPARTMENT OF TRANSPORTATION
STATE RAIL AUTHORITY

NORTHBOUND SIGNS

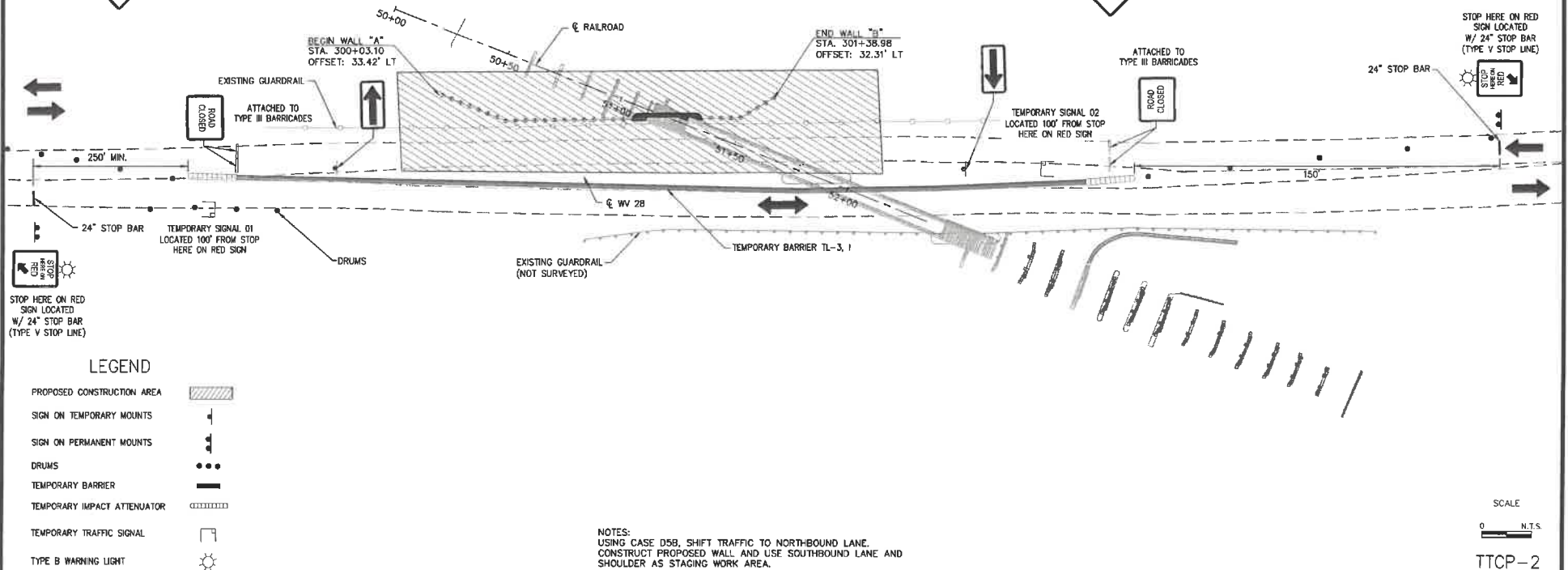


SOUTHBOUND SIGNS



PUBLIC ROADS DIV.	STATE DIST. NO.	STATE PROJECT NO.	FEDERAL PROJECT NO.	FISCAL YEAR	COUNTY	SHEET NO.	TOTAL SHEETS
WV	5	5314-SBV/RR-6.50 02	N/A	2022	HAMPSHIRE	13	24

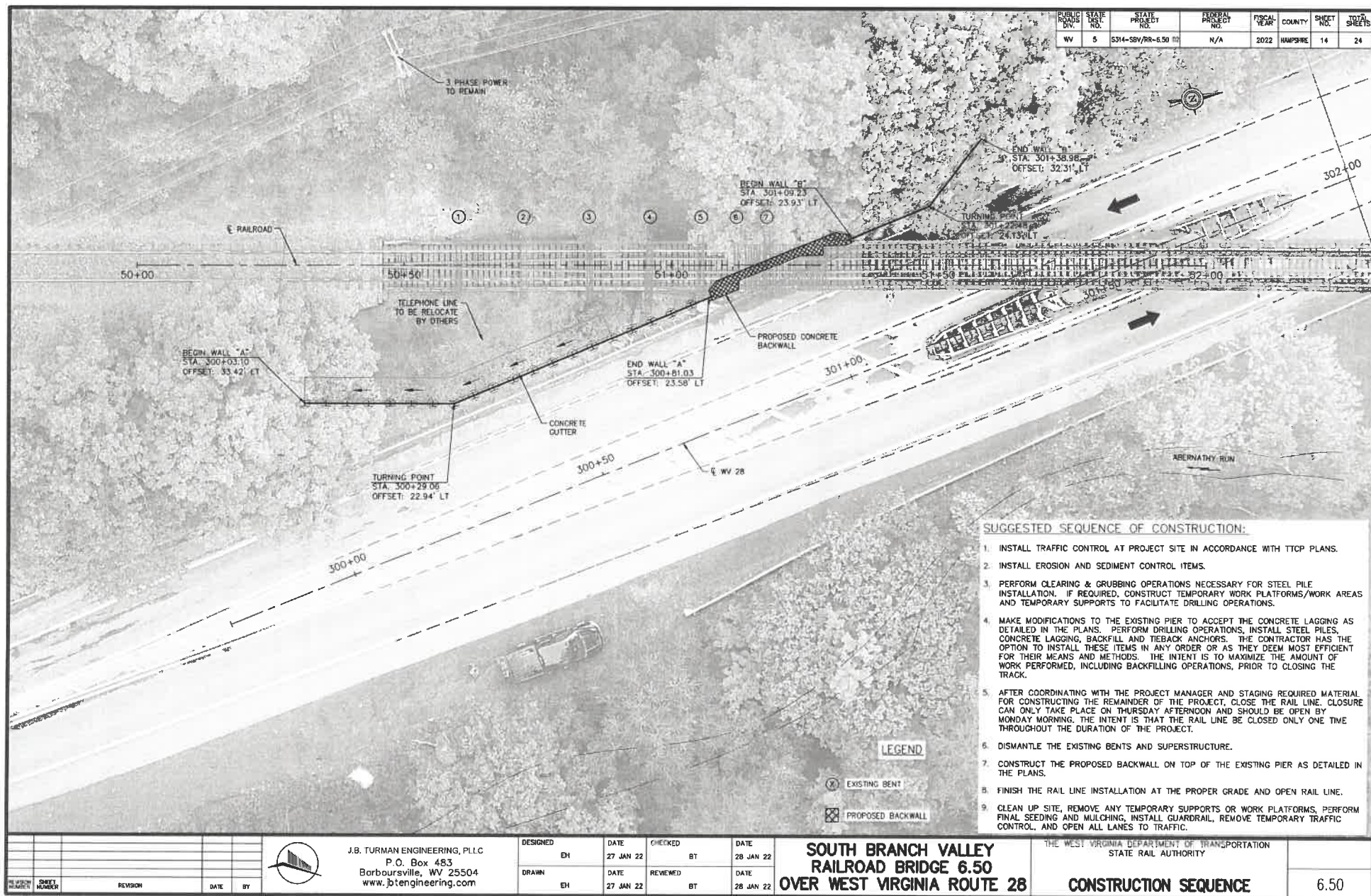
NOTE: CHANGEABLE MESSAGE SIGN (CMS) TO BE LOCATED BETWEEN 1/2 MILE TO 1 MILE PRIOR TO SIGNAL MESSAGE TO READ "TRAFFIC SIGNAL AHEAD, BE PREPARED TO STOP"



SCALE
0 10 20 N.T.S.
TTCP-2

DESIGNED EH DATE 27 JAN 22	CHECKED BT DATE 28 JAN 22	DATE 28 JAN 22	SOUTH BRANCH VALLEY RAILROAD BRIDGE 6.50 OVER WEST VIRGINIA ROUTE 28	THE WEST VIRGINIA DEPARTMENT OF TRANSPORTATION STATE RAIL AUTHORITY MAINTENANCE OF TRAFFIC PLAN SHEET	6.50
DRAWN EH DATE 27 JAN 22	REVIEWED BT DATE 28 JAN 22	DATE 28 JAN 22			

J.B. TURMAN ENGINEERING, PLLC
P.O. Box 483
Barboursville, WV 25504
www.jbtengineering.com



SHEET NUMBER	REVISION	DATE	BY
1			



J.B. TURMAN ENGINEERING, PLLC
P.O. Box 483
Bartonsville, WV 25504
www.jbtengineering.com

DESIGNED	DATE	CHECKED	DATE
EH	27 JAN 22	BT	28 JAN 22
DRAWN	DATE	REVIEWED	DATE
EH	27 JAN 22	BT	28 JAN 22

**SOUTH BRANCH VALLEY
RAILROAD BRIDGE 6.50
OVER WEST VIRGINIA ROUTE 28**

THE WEST VIRGINIA DEPARTMENT OF TRANSPORTATION
STATE RAIL AUTHORITY

CONSTRUCTION SEQUENCE

6.50

PUBLIC ROADS DIV.	STATE NO.	STATE PROJECT NO.	FEDERAL PROJECT NO.	FISCAL YEAR	COUNTY	SHEET NO.	TOTAL SHEETS
WV	5	SS14-SBV/RR-8.50	N/A	2022	HAMPSHIRE	15	24

CORE BORING LOCATION				
BORING	STATION	OFFSET	NORTHING	EASTING
B-4	51+05.33	11.01' RT	349488.4154	2195077.1229
B-5	50+45.55	6.08' RT	349431.0711	2195059.5327
B-6	50+59.31	29.11' RT	349439.5860	2195084.9664
B-7	51+50.13	9.41' LT	349536.5442	2195066.7522
B-8	51+08.56	8.31' RT	349492.1438	2195075.1784

- 1 TYPE 1 GUARDRAIL, CLASS V
CONNECT TO EXISTING
STA. 299+95.74
19.75' LT.
CONNECT TO PIER, THIR BEAM
STA. 300+83.22
21.56' LT.
- 2 TYPE 1 GUARDRAIL, CLASS V
CONNECT TO PIER, THIR BEAM
STA. 301+07.53
21.89' LT.
CONNECT TO EXISTING
STA. 301+57.53
22.09' LT.

BEGIN PROJECT
RAIL STA. 50+31.45

END PROJECT
RAIL STA. 51+58.02

PLAN

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Barboursville, WV 25504
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DESIGNED	DATE	CHECKED	DATE
EH	27 JAN 22	BT	28 JAN 22
DRAWN	DATE	REVIEWED	DATE
EH	27 JAN 22	BT	28 JAN 22

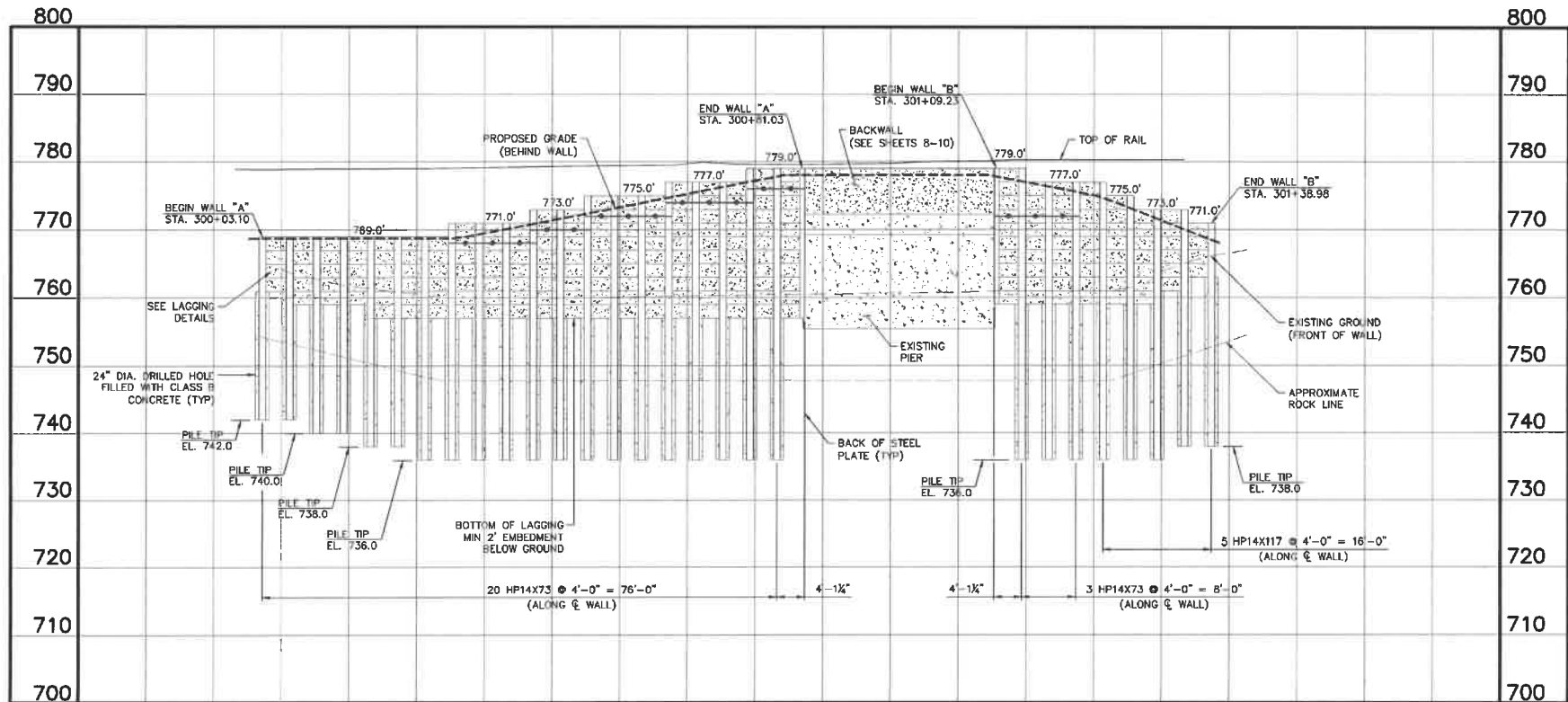
**SOUTH BRANCH VALLEY
RAILROAD BRIDGE 6.50
OVER WEST VIRGINIA ROUTE 28**

THE WEST VIRGINIA DEPARTMENT OF TRANSPORTATION
STATE RAIL AUTHORITY

PLAN SHEET

6.50

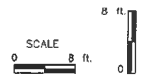
PUBLIC ROADS DIV.	STATE DIST. NO.	STATE PROJECT NO.	FEDERAL PROJECT NO.	FISCAL YEAR	COUNTY	SHEET NO.	TOTAL SHEETS
WV	5	S314-SBV/RR-6.50 (0)	N/A	2022	HAMPSHIRE	16	24



PROFILE - WALL
(ALONG WALL CL)


LEGEND:

- 8" LAGGING
- HP14X73 WALE
- 1.25" Ø TIE-BACK ANCHOR



<div> <p>J.B. TURMAN ENGINEERING, PLLC P.O. Box 483 Barboursville, WV 25504 www.jbtengineering.com</p> </div>				DESIGNED EH	DATE 27 JAN 22	CHECKED BT	DATE 26 JAN 22	SOUTH BRANCH VALLEY RAILROAD BRIDGE 6.50 OVER WEST VIRGINIA ROUTE 28	THE WEST VIRGINIA DEPARTMENT OF TRANSPORTATION STATE RAIL AUTHORITY	PROFILE SHEET	6.50
REVISION NUMBER	SHEET NUMBER	REVISION	DATE	BY	DRAWN EH	DATE 27 JAN 22	REVIEWED BT	DATE 26 JAN 22			

RURIS ROADS DIV.	STATE DIST. NO.	STATE PROJECT NO.	FEDERAL PROJECT NO.	FISCAL YEAR	COUNTY	SHEET NO.	TOTAL SHEETS
WV	5	S314-SBV/RR-6.50 02	N/A	2022	HAMPSHIRE	17	24



WEST VIRGINIA DEPARTMENT OF TRANSPORTATION
Divisions of Highways

Engineering Division
Geotechnical Unit - Bldg 5, Room A-437
1900 Kanawha Blvd. E., Charleston, WV 25305
Office: (304)555-7655, FAX: (304)555-7297

Materials Control, Soils and Testing Division
Subsurface Investigation Group
190 Dry Branch Rd., Charleston, WV 25309
Office: (304)555-8664, FAX: (304)555-6253

Final Log

B-4

Project Name: SBV RR Bridge 6.5
Boring Location: At Guardrail at South End of South Pier
Date Started: 10/15/2014 County: Hampshire District: D-5
Date Completed: 10/15/2014 Inspector: None Entered By: NRB
Project Number: S314-SBV/RR-6.50
Elevation (ft.): 760-ft EST.
Lat. and Long.:
Driller / Company: Bird

ELEV. ft.	DEPTH ft.	DESCRIPTION OF MATERIALS color, material description, grain size, structure, moisture, consistency	Type	INT Depth	Run Rec	Blows Cnt (N-Value)	SAMPLE		Additional Notes	RMR (Total)
							HC38	ROD		
760.00	0.0	Brown and grey COBBLES AND SAND; dry, loose		0.0-2.2						
757.80	2.2	Grey SILTSTONE: limy, bedded at approx. 45° from horizontal, weathered joint surfaces, slightly weathered, hard		2.2-7.2	5.0 ft. 3.5 ft. 70 %		4	2.1 ft. 42 %		7-8-5-9-10 (39)
755.00	5.0	Grey SILTSTONE: limy, bedded at approx. 45° from horizontal, slightly to unweathered, hard		7.2-12.2	5.0 ft. 4.8 ft. 96 %		4	4.3 ft. 86 %		7-17-10-11-10 (55)
747.10	17.2	BORING COMPLETED AT 12.2 ft.								
<p>gouge at joint surface at 11.2'</p>										


Rig No. 641-022
Rig Type Skid
Core Size .NQ
Core Barrel Solid
Hammer Auto

Remarks

Sampling Method: ☒ Shelby Tube ☐ Solid Auger ☐ Hollow Auger ☐ Split Spoon ☐ Rock Core ☐ Tricone

Water Level Observations: Immediate Dry ft. At Completion 2.2 ft. After 0 Hrs. 2.2 ft. Before Coring NA ft. Backfilled Cutting ft.

Page 1 of 1



WEST VIRGINIA DEPARTMENT OF TRANSPORTATION
Divisions of Highways

Engineering Division
Geotechnical Unit - Bldg 5, Room A-437
1900 Kanawha Blvd. E., Charleston, WV 25305
Office: (304)555-7655, FAX: (304)555-7297

Materials Control, Soils and Testing Division
Subsurface Investigation Group
190 Dry Branch Rd., Charleston, WV 25309
Office: (304)555-8664, FAX: (304)555-6253

Final Log

B-5

Project Name: SBV RR Bridge 6.5
Boring Location: South of the South Abutment
Date Started: 10/14/2014 County: Hampshire District: D-5
Date Completed: 10/14/2014 Inspector: None Entered By: NRB
Project Number: S314-SBV/RR-6.50
Elevation (ft.): 776-ft EST.
Lat. and Long.:
Driller / Company: Bird

ELEV. ft.	DEPTH ft.	DESCRIPTION OF MATERIALS color, material description, grain size, structure, moisture, consistency	Type	INT Depth	Run Rec	Blows Cnt (N-Value)	SAMPLE		Additional Notes	RMR (Total)
							HC38	ROD		
776.00	0.0	Black FILL: sandy gravel, dry, loose		0.0-2.5						
773.50	2.5	Brown FILL: sandy gravel, dry, loose		2.5-4.0	1.5 ft. 0.5 ft. 33 %		4-3-3 (6)			
771.00	5.0	Brown SANDY GRAVEL: dry, dense		4.0-5.0	1.4 ft. 0.9 ft. 84 %		12-13 60/4			
770.00	6.0	Grey and brown SILTSTONE: limy, bedded at approx. 45° from horizontal, slightly weathered, abundant fractures, hard		5.0-6.4	5.0 ft. 5.0 ft. 100 %		0.6 ft. 16 %			
759.60	16.4	BORING COMPLETED AT 16.4 ft.								
<p>Gouge at joints at 14.2' and 14.6'</p>										

Rig No. 641-022
Rig Type Skid
Core Size .NQ
Core Barrel Solid
Hammer Auto


Remarks

Sampling Method: ☒ Shelby Tube ☐ Solid Auger ☐ Hollow Auger ☐ Split Spoon ☐ Rock Core ☐ Tricone


Water Level Observations: Immediate Dry ft. At Completion 14.2 ft. After 0 Hrs. 14.2 ft. Before Coring NA ft. Backfilled Cutting ft.

Page 1 of 1

NOTE:
THE BORING LOG(S) HAVE BEEN PROVIDED BY THE WVDOH.

<div style="display: flex; align-items: center;">  <div style="margin-left: 10px;"> <p>J.B. TURMAN ENGINEERING, PLLC P.O. Box 483 Barboursville, WV 25504 www.jbtengineering.com</p> </div> </div>				DESIGNED EH	DATE 27 JAN 22	CHECKED BT	DATE 28 JAN 22	SOUTH BRANCH VALLEY RAILROAD BRIDGE 6.50 OVER WEST VIRGINIA ROUTE 28	THE WEST VIRGINIA DEPARTMENT OF TRANSPORTATION STATE RAIL AUTHORITY	BORING LOG (SHEET 1 OF 3)	6.50
REVISION	DATE	BY		DRAWN EH	DATE 27 JAN 22	REVIEWED BT	DATE 28 JAN 22				

PUBLIC ROADS DIV.	STATE NO.	STATE PROJECT NO.	FEDERAL PROJECT NO.	FISCAL YEAR	COUNTY	SHEET NO.	TOTAL SHEETS
WV	5	S314-SBV/RR-6.50 02	N/A	2022	HAMPSHIRE	18	24



WEST VIRGINIA DEPARTMENT OF TRANSPORTATION
Division of Highways

Technical Support Division
Geotechnical Design Unit
1331 Smith Street, Charleston, WV 25301
Office: (304) 414-6056, FAX: (304) 558-1514

Technical Support Division
Subsurface Investigation Unit
100 Dry Branch Rd., Charleston, WV 25308
Office: (304) 558-3180, FAX: (304) 558-0253

Field Boring Log B-6

DATE & TIME RECEIVED

Project Name South Branch RR Bridge 6.5
Boring Location Station: 80+09.31 Offset: 29.1 ft. RL CL
Date Started 12/8/2021 **County** Hampshire **Inspector** None
Date Completed 12/9/2021 **District** D-5 **Entered By** BIRD

Project Number S314-SBV-RR-6.50
Elevation (ft.) 757.57-ft Actual
Lat. and Long. D°N 0°W
Driller / Company Bird

ELEV. ft.	DEPTH ft.	DESCRIPTION OF MATERIALS color, material description, grain size, structure, moisture, consistency	SAMPLE				Additional Notes	RMR (Total)
			Type	MT Depth	Run Rec	Blows Cnt (N-Value)		
757.57	0.0							
	0.0-1.0	Brown SANDY CLAY: and cobbles, moist, loose	1.5 ft.	1.3-2	(5)			
	1.5-5.0							
751.37	6.2	Grey SILTSTONE: very hard	1.4 ft.	25-30	60/0.4			
	5.0-6.4		1.2 ft.	88 %				
	6.4-16.4		10.0 ft.	10.0 ft.	100 %			
741.17	16.4	BORING COMPLETED AT 16.4 ft.						
	16.4-46.5		4.6 ft.	46 %				
	46.5-50.0							
	50.0-54.5							
	54.5-58.0							
	58.0-61.5							
	61.5-65.0							
	65.0-68.5							
	68.5-72.0							
	72.0-75.5							
	75.5-79.0							
	79.0-82.5							
	82.5-86.0							
	86.0-89.5							
	89.5-93.0							
	93.0-96.5							
	96.5-100.0							

Rig No. 041-022
Rig Type Solid
Core Size NO
Core Barrel Solid
Hammer Auto

Remarks


Sampling Method

Shelby Tube ☐ Solid Auger ☐ Hollow Auger ☐ Split Spoon ☐ Rock Core ☐ Tricone ☐

Water Level Observations

Immediate Dry ft.
At Completion 7.0 ft.
After 0 Hrs. 7.0 ft.
Before Coring NA ft.
Backfilled Cutting ft.

Page 1 of 1



WEST VIRGINIA DEPARTMENT OF TRANSPORTATION
Division of Highways

Technical Support Division
Geotechnical Design Unit
1331 Smith Street, Charleston, WV 25301
Office: (304) 414-6056, FAX: (304) 558-1514

Technical Support Division
Subsurface Investigation Unit
100 Dry Branch Rd., Charleston, WV 25308
Office: (304) 558-3180, FAX: (304) 558-0253

Field Boring Log B-7

DATE & TIME RECEIVED

Project Name South Branch RR Bridge 6.5
Boring Location Station: 51+50.13 Offset: 9.4 ft. Li. CL
Date Started 12/14/2021 **County** Hampshire **Inspector** None
Date Completed 12/14/2021 **District** D-5 **Entered By** BIRD

Project Number S314-SBV-RR-6.50
Elevation (ft.) 759.06-ft Actual
Lat. and Long. 0°N 0°W
Driller / Company Bird

ELEV. ft.	DEPTH ft.	DESCRIPTION OF MATERIALS color, material description, grain size, structure, moisture, consistency	SAMPLE				Additional Notes	RMR (Total)
			Type	MT Depth	Run Rec	Blows Cnt (N-Value)		
759.06	0.0							
	0.0-1.5	Black COBBLES AND SAND: dry, loose	1.0 ft.	3-4	(8)			
	1.5-4.3							
754.76	4.3	Grey SILTSTONE: very hard	4.3-4.5	0.2 ft.	50/0.2			
	4.5-14.5		10.0 ft.	9.7 ft.	97 %			
744.58	14.5	BORING COMPLETED AT 14.5 ft.						
	14.5-18.0							
	18.0-21.5							
	21.5-25.0							
	25.0-28.5							
	28.5-32.0							
	32.0-35.5							
	35.5-39.0							
	39.0-42.5							
	42.5-46.0							
	46.0-49.5							
	49.5-53.0							
	53.0-56.5							
	56.5-60.0							
	60.0-63.5							
	63.5-67.0							
	67.0-70.5							
	70.5-74.0							
	74.0-77.5							
	77.5-81.0							
	81.0-84.5							
	84.5-88.0							
	88.0-91.5							
	91.5-95.0							
	95.0-98.5							
	98.5-102.0							

Rig No. 041-022
Rig Type Solid
Core Size NO
Core Barrel Solid
Hammer Auto

Remarks

Sampling Method

Shelby Tube ☐ Solid Auger ☐ Hollow Auger ☐ Split Spoon ☐ Rock Core ☐ Tricone ☐

Water Level Observations

Immediate Dry ft.
At Completion 4.5 ft.
After 0 Hrs. 4.5 ft.
Before Coring NA ft.
Backfilled Cutting ft.

Page 1 of 1

NOTE:
THE BORING LOG(S) HAVE BEEN PROVIDED BY THE WVDOT.

REVISION NUMBER	SHEET NUMBER	REVISION	DATE	BY	J.B. TURMAN ENGINEERING, PLLC P.O. Box 483 Barboursville, WV 25504 www.jbtengineering.com	DESIGNED EH	DATE 27 JAN 22	CHECKED BT	DATE 26 JAN 22	SOUTH BRANCH VALLEY RAILROAD BRIDGE 6.50 OVER WEST VIRGINIA ROUTE 28	THE WEST VIRGINIA DEPARTMENT OF TRANSPORTATION STATE RAIL AUTHORITY	BORING LOG (SHEET 2 OF 3)	6.50
						DRAWN EH	DATE 27 JAN 22	REVIEWED BT	DATE 26 JAN 22				

Technical Support Division
Geotechnical Design Unit
1334 Smith Street, Charleston, WV 25301
Office: (304) 414-6686, FAX: (304) 568-1514


Technical Support Division
Subsurface Investigation Unit
190 Dry Branch Rd., Charleston, WV 26308
Office: (304) 558-3160, FAX: (304) 558-0953

DATE & TIME RECEIVED

ELEV. ft.	DEPTH ft.	DESCRIPTION OF MATERIALS color, material description, grain size, structure, moisture, consistency	Type	INT Depth	Run Roc	Blows Cnt (N-Value) (S)	SAMPLE			
							NCS	ROD	Additional Notes	RMR (Total)
758.72	0.0	Black SANDY CLAY; and cobbles, dry, loose		0.0-1.5	1.5 ft. 0.0 ft.	3-2-3 (5)				
				1.5-4.4						
754.32	4.4	Gray SILTSTONE: very hard		4.4-4.5	0.1 ft. 0.1 ft.	500				
					100 %					
				4.5-14.5	10.0 ft. 8.7 ft.			5	7.2 ft. 72 %	
744.22	14.5	BORING COMPLETED AT 14.5 ft.								
				15						
				20						
				25						
				30						
Rig No. 641-022		Remarks	Sampling Method				Water Level Observations			
Rig Type Solid			<input checked="" type="checkbox"/> Shelby Tube	<input checked="" type="checkbox"/> Solid Auger			Immediate	Dry		
Core Size NQ		Drilled @ approx. SI 51-0 ft. R. to avoid pier.	<input type="checkbox"/> Split Spoon	<input type="checkbox"/> Hollow Auger			At Completion	3.0		
Core Barrel Solid			<input type="checkbox"/> Rock Core	<input type="checkbox"/> Tricone			Before Coring	0 Hrs. 3.0		
Hammer Auto							Backfilled	NA		
							Cutting			

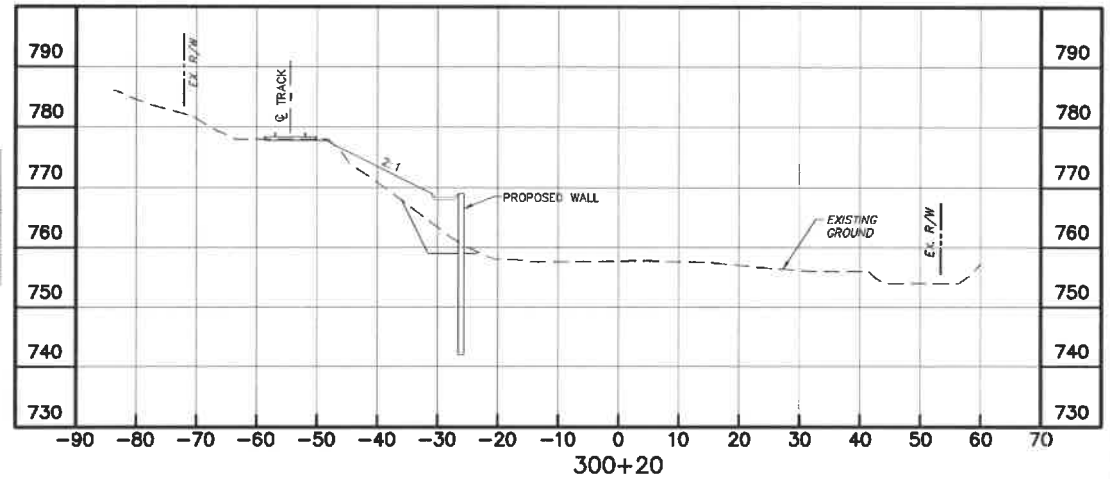
Page 1 of 1

NOTE:
THE BORING LOG(S) HAVE BEEN PROVIDED BY THE WYDOH.

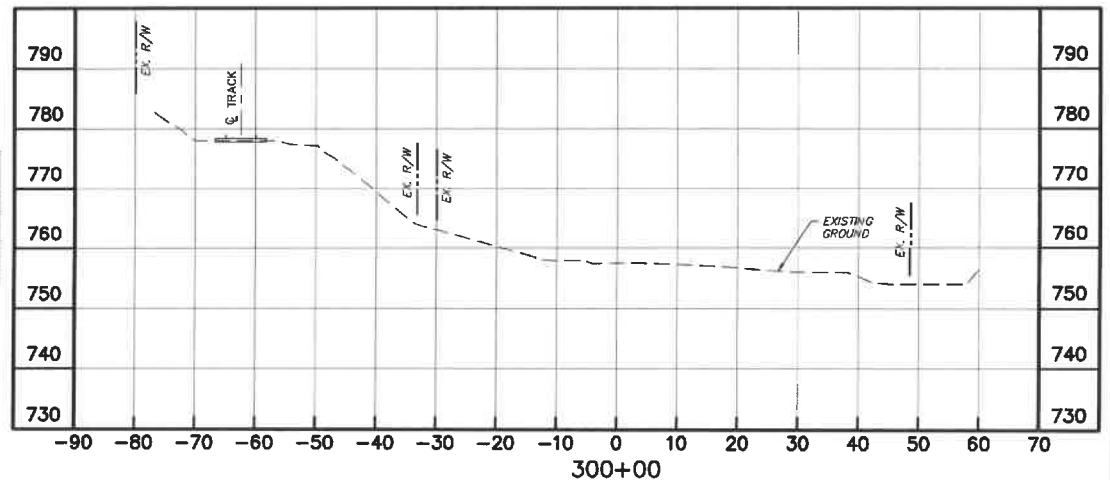
												J.B. TURMAN ENGINEERING, PLLC P.O. Box 483 Barboursville, WV 25504 www.jbtengineering.com		DESIGNED EH 27 JAN 22	DATE 27 JAN 22	CHECKED BT 28 JAN 22	DATE 28 JAN 22	SOUTH BRANCH VALLEY RAILROAD BRIDGE 6.50 OVER WEST VIRGINIA ROUTE 28		THE WEST VIRGINIA DEPARTMENT OF TRANSPORTATION STATE RAIL AUTHORITY		
DESIGN NUMBER	SHEET NUMBER	REVISION		DATE		BY								DRAWN EH 27 JAN 22	DATE 27 JAN 22	REVIEWED BT 28 JAN 22	DATE 28 JAN 22	BORING LOG (SHEET 3 OF 3)		6.50		

PUBLIC ROADS DIV.	STATE DIST. NO.	STATE PROJECT NO.	FEDERAL PROJECT NO.	FISCAL YEAR	COUNTY	SHEET NO.	TOTAL SHEETS
WV	5	S314-SBV/RR-6.50 02	N/A	2022	HAMPSHIRE	20	24

LOCATION		SEEDING & MULCHING		CLEARING & GRUBBING		EXCAVATION				EMBANKMENT			
STATION	LENGTH FT	WIDTH FT	AREA SF	WIDTH FT	AREA SF	UNCLASSIFIED		UNSUITABLE		UNCLASSIFIED		SELECT EMBANKMENT	
300+20	20	0	0	0	0	SF	CY	SF	CY	SF	CY	SF	CY
300+00		0		0		0		0		0		0	



LOCATION		SEEDING & MULCHING		CLEARING & GRUBBING		EXCAVATION				EMBANKMENT			
STATION	LENGTH FT	WIDTH FT	AREA SF	WIDTH FT	AREA SF	UNCLASSIFIED		UNSUITABLE		UNCLASSIFIED		SELECT EMBANKMENT	
300+00		0		0		SF	CY	SF	CY	SF	CY	SF	CY
						0		0		0		0	



P.O. Box 483
Barboursville, WV 25504
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304-733-1395



J.B. TURMAN ENGINEERING, PLLC

REVISION NUMBER	SHEET NUMBER	REVISION	DATE	BY

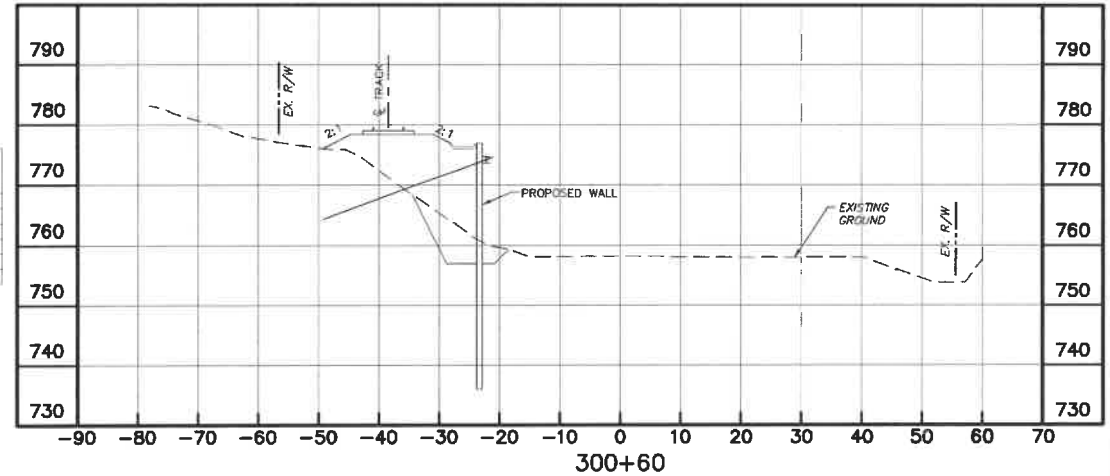
**SOUTH BRANCH VALLEY
RAILROAD BRIDGE 6.5
OVER WEST VIRGINIA ROUTE 28**

THE WEST VIRGINIA DEPARTMENT OF TRANSPORTATION
STATE RAIL AUTHORITY

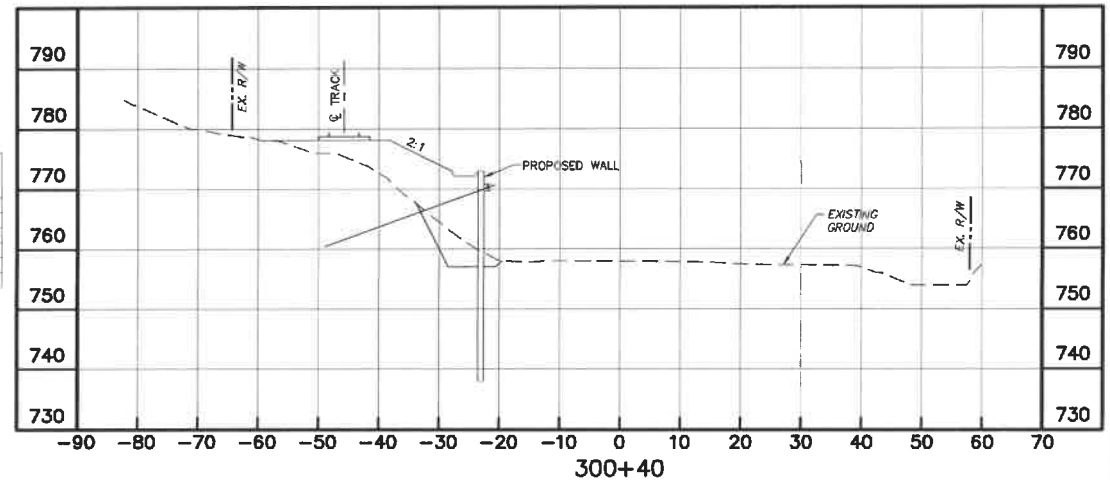
CROSS SECTIONS

PUBLIC ROADS DIV.	STATE DIST. NO.	STATE PROJECT NO.	FEDERAL PROJECT NO.	FISCAL YEAR	COUNTY	SHEET NO.	TOTAL SHEETS
WV	5	5314-SBV/RR-8.50 R2	N/A	2022	HAMPSHIRE	21	24

LOCATION		SEEDING & MULCHING		CLEARING & GRUBBING		EXCAVATION				EMBANKMENT			
STATION	LENGTH FT	WIDTH FT	AREA SF	WIDTH FT	AREA SF	UNCLASSIFIED SF	UNCLASSIFIED CY	UNSUITABLE SF	UNSUITABLE CY	UNCLASSIFIED SF	UNCLASSIFIED CY	SELECT EMBANKMENT SF	SELECT EMBANKMENT CY
300+60	20	0	0	0	0	64	41	64	41	0	0	277	186
300+40		0		0		46		46		0		226	



LOCATION		SEEDING & MULCHING		CLEARING & GRUBBING		EXCAVATION				EMBANKMENT			
STATION	LENGTH FT	WIDTH FT	AREA SF	WIDTH FT	AREA SF	UNCLASSIFIED SF	UNCLASSIFIED CY	UNSUITABLE SF	UNSUITABLE CY	UNCLASSIFIED SF	UNCLASSIFIED CY	SELECT EMBANKMENT SF	SELECT EMBANKMENT CY
300+40	20	0	0	0	0	46	30	46	30	0	0	226	121
300+20		0		0		34		34		0		102	



P.O. Box 483
Barboursville, WV 25504
www.jbtengineering.com
304-733-1395



J.B. TURMAN ENGINEERING, PLLC

REVISION NUMBER	SHEET NUMBER	REVISION	DATE	BY

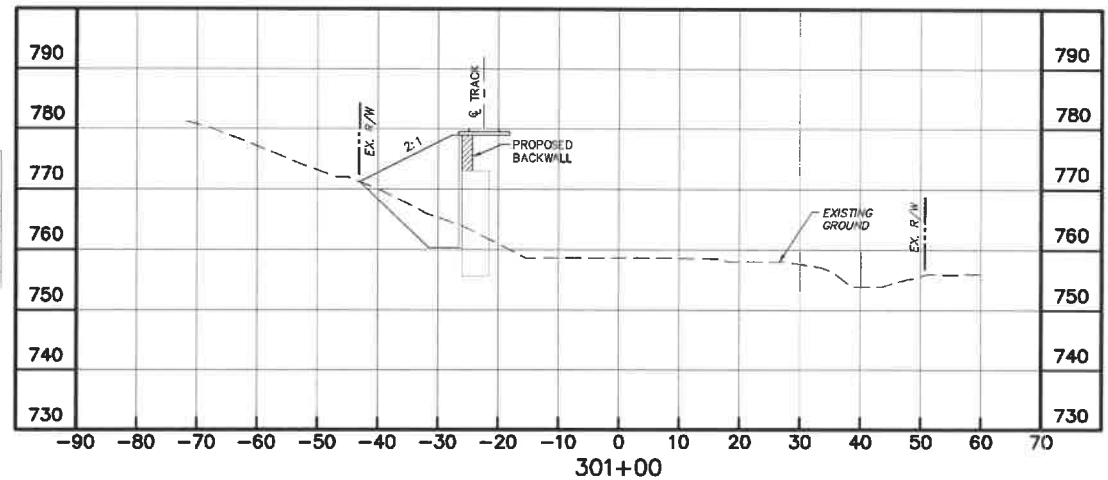
**SOUTH BRANCH VALLEY
RAILROAD BRIDGE 6.5
OVER WEST VIRGINIA ROUTE 28**

THE WEST VIRGINIA DEPARTMENT OF TRANSPORTATION
STATE RAIL AUTHORITY

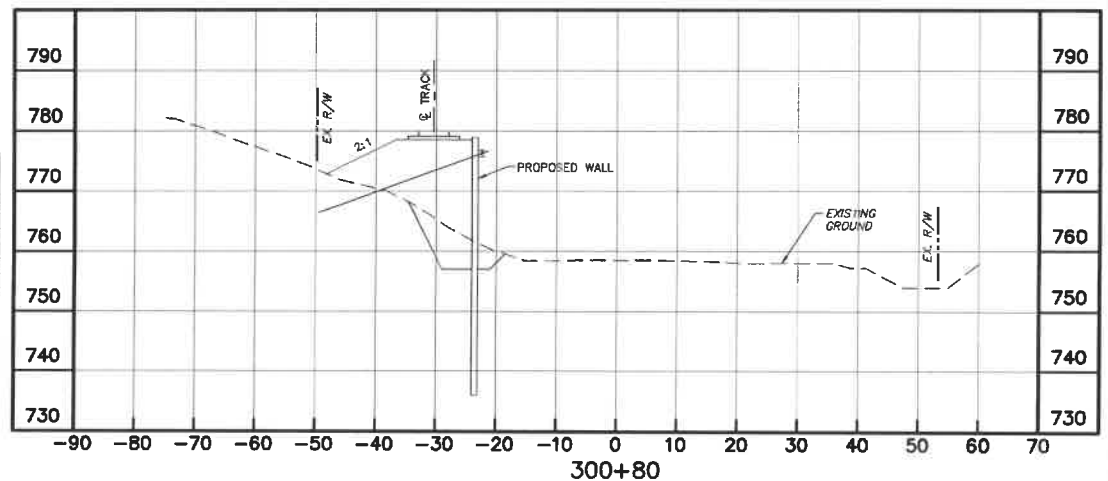
CROSS SECTIONS

PUBLIC ROADS DIV.	STATE DIST. NO.	STATE PROJECT NO.	FEDERAL PROJECT NO.	FISCAL YEAR	COUNTY	SHEET NO.	TOTAL SHEETS
WV	5	5314-SRV/RR-6.50 01	N/A	2022	HAMPSHIRE	22	24

LOCATION		SEEDING & MULCHING		CLEARING & GRUBBING		EXCAVATION				EMBANKMENT			
STATION	LENGTH FT	WIDTH FT	AREA SF	WIDTH FT	AREA SF	UNCLASSIFIED SF	CY	UNSUITABLE SF	CY	UNCLASSIFIED SF	CY	SELECT EMBANKMENT SF	CY
301+00	20	0	0	0	0	57	47	57	47	0	0	185	189
300+80		0	0	0	0	69		69		0		271	



LOCATION		SEEDING & MULCHING		CLEARING & GRUBBING		EXCAVATION				EMBANKMENT			
STATION	LENGTH FT	WIDTH FT	AREA SF	WIDTH FT	AREA SF	UNCLASSIFIED SF	CY	UNSUITABLE SF	CY	UNCLASSIFIED SF	CY	SELECT EMBANKMENT SF	CY
300+80	20	0	0	0	0	69	49	69	49	0	0	271	203
300+60		0	0	0	0	64		64		0		277	



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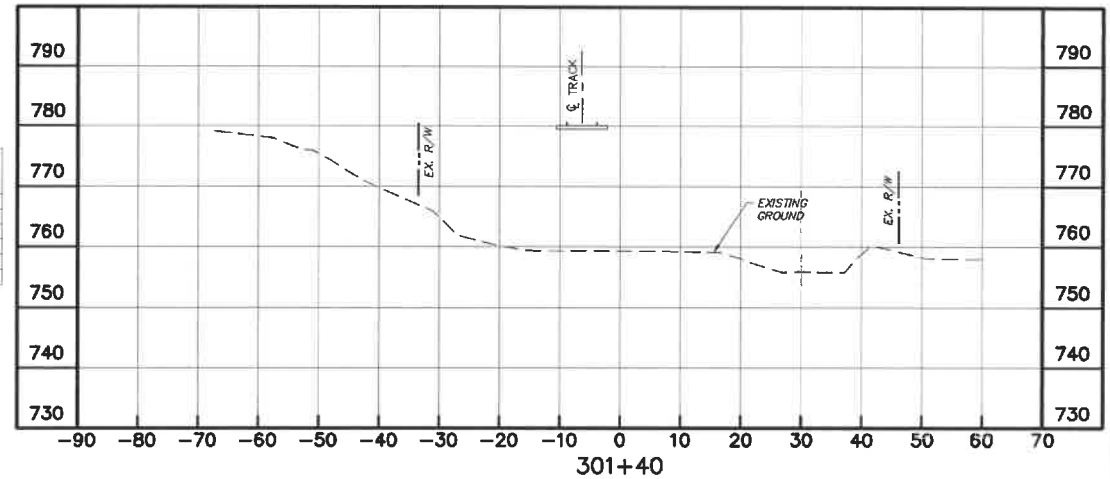
**SOUTH BRANCH VALLEY
RAILROAD BRIDGE 6.5
OVER WEST VIRGINIA ROUTE 28**

THE WEST VIRGINIA DEPARTMENT OF TRANSPORTATION
STATE RAIL AUTHORITY

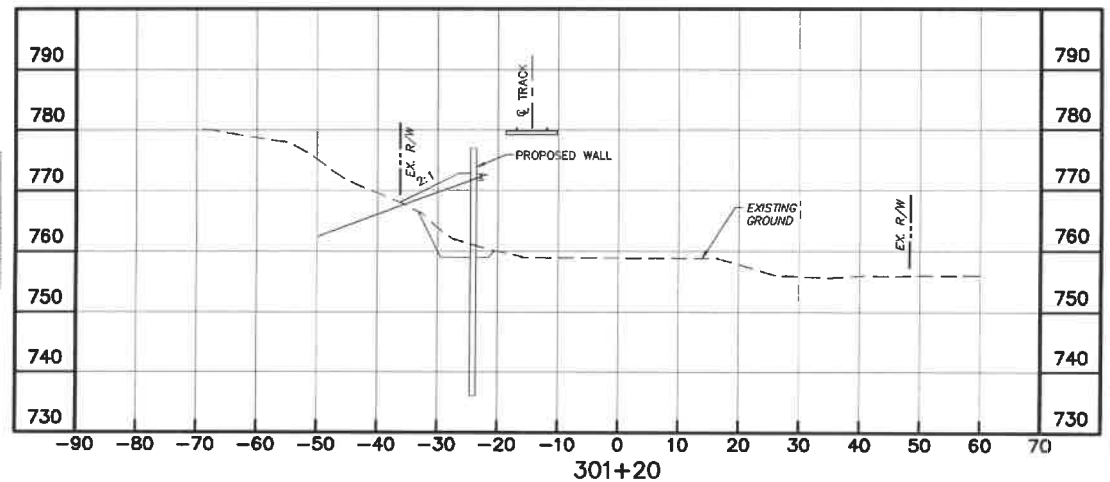
CROSS SECTIONS

PUBLIC ROADS DIV.	STATE DIST. NO.	STATE PROJECT NO.	FEDERAL PROJECT NO.	FISCAL YEAR	COUNTY	SHEET NO.	TOTAL SHEETS
WV	5	5314-SEV/RR-6.50	N/A	2022	HAMPSHIRE	23	24

LOCATION		SEEDING & MULCHING		CLEARING & GRUBBING		EXCAVATION			EMBANKMENT		
STATION	LENGTH FT	WIDTH FT	AREA SF	WIDTH FT	AREA SF	UNCLASSIFIED SF	CY	UNSUITABLE SF	CY	UNCLASSIFIED SF	SELECT EMBANKMENT CY
301+40	20	0	0	0	0	0	11	0	11	0	37
301+20		0	0	0	0	30		30		0	100



LOCATION		SEEDING & MULCHING		CLEARING & GRUBBING		EXCAVATION			EMBANKMENT		
STATION	LENGTH FT	WIDTH FT	AREA SF	WIDTH FT	AREA SF	UNCLASSIFIED SF	CY	UNSUITABLE SF	CY	UNCLASSIFIED SF	SELECT EMBANKMENT CY
301+20	20	0	0	0	0	30	32	30	32	0	106
301+00		0	0	0	0	57		57		0	185



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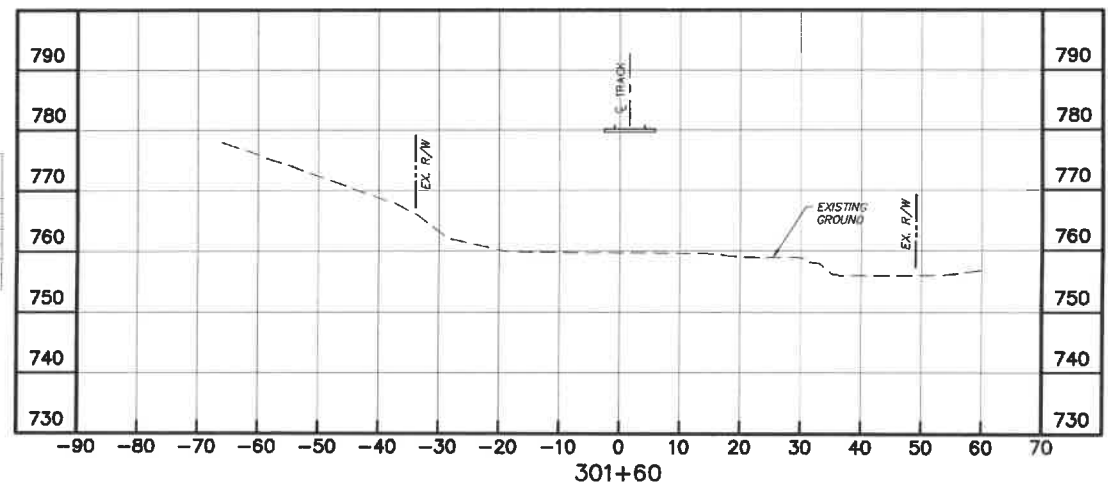
**SOUTH BRANCH VALLEY
RAILROAD BRIDGE 6.5
OVER WEST VIRGINIA ROUTE 28**

THE WEST VIRGINIA DEPARTMENT OF TRANSPORTATION
STATE RAIL AUTHORITY

CROSS SECTIONS

PUBLIC ROADS DIV.	STATE DIST. NO.	STATE PROJECT NO.	FEDERAL PROJECT NO.	FISCAL YEAR	COUNTY	SHEET NO.	TOTAL SHEETS
WV	5	SS14-SBV/RR-6.50 01	N/A	2022	HAMPSHIRE	24	24

LOCATION		SEEDING & MULCHING		CLEARING & GRUBBING		EXCAVATION				EMBANKMENT			
STATION	LENGTH FT	WIDTH FT	AREA SF	WIDTH FT	AREA SF	UNCLASSIFIED SF	CY	UNSUITABLE SF	CY	UNCLASSIFIED SF	CY	SELECT EMBANKMENT SF	CY
301+60	20	0	0	0	0	0	0	0	0	0	0	0	0
301+40		0	0	0	0	0	0	0	0	0	0	0	0



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REVISION NUMBER	SHEET NUMBER	REVISION	DATE	BY

**SOUTH BRANCH VALLEY
RAILROAD BRIDGE 6.5
OVER WEST VIRGINIA ROUTE 28**

THE WEST VIRGINIA DEPARTMENT OF TRANSPORTATION
STATE RAIL AUTHORITY

CROSS SECTIONS



Department of Administration
Purchasing Division
2019 Washington Street East
Post Office Box 50130
Charleston, WV 25305-0130

State of West Virginia
Centralized Request for Quote

Proc Folder: 1072251			Reason for Modification: Addendum No. 1 To respond to vendor technical questions.
Doc Description: Construction-BR 6.5 South End Partial Replacement Timber			
Proc Type: Central Purchase Order			
Date Issued	Solicitation Closes	Solicitation No	Version
2022-08-02	2022-08-18 13:30	CRFQ 0810 DMT2300000001	2

BID RECEIVING LOCATION

BID CLERK
DEPARTMENT OF ADMINISTRATION
PURCHASING DIVISION
2019 WASHINGTON ST E
CHARLESTON WV 25305
US

VENDOR

Vendor Customer Code:

Vendor Name :

Address :

Street :

City :

State :

Country :

Zip :

Principal Contact :

Vendor Contact Phone:

Extension:

FOR INFORMATION CONTACT THE BUYER

David H Pauline
304-558-0067
david.h.pauline@wv.gov

**Vendor
Signature X**

FEIN#

DATE

All offers subject to all terms and conditions contained in this solicitation

ADDITIONAL INFORMATION

Addendum No. 1

To respond to vendor technical questions, see attached

Bid opening remains August 18, 2022 at 1:30 pm est.

No other changes.

INVOICE TO				SHIP TO			
STATE RAIL AUTHORITY 120 WATER PLANT DR MOOREFIELD WV US				STATE RAIL AUTHORITY (DBA) SOUTH BRANCH VALLEY RAILROAD 120 WATER PLANT DR MOOREFIELD WV US			

Line	Comm Ln Desc	Qty	Unit Issue	Unit Price	Total Price
1	Replacement of Bridge 6.5 - South End	0.00000	EA		

Comm Code	Manufacturer	Specification	Model #
72141603			

Extended Description:

Replacement of BR 6.5 - South End

SCHEDULE OF EVENTS

<u>Line</u>	<u>Event</u>	<u>Event Date</u>
1	Mandatory Pre-Bid Meeting at 10:30 am est.	2022-08-09
2	Vendor Technical Questions Due By 11:00 am est.	2022-08-12

	Document Phase	Document Description	Page 3
DMT2300000001	Draft	Construction-BR 6.5 South End Partial Replacement Timber	

ADDITIONAL TERMS AND CONDITIONS

See attached document(s) for additional Terms and Conditions

SOLICITATION NUMBER: CRFQ DMT2300000001
Addendum Number: 1

The purpose of this addendum is to modify the solicitation identified as CRFQ DMT2300000001 to reflect the change(s) identified and described below.

Applicable Addendum Category:

- ☐ Modify bid opening date and time
- ☐ Modify specifications of product or service being sought
- ☒ To respond to technical questions
- ☐ Attachment of pre-bid sign-in sheet
- ☐ Correction of error
- ☐ Other

Additional Documentation:

1. To respond to vendor technical questions, see attached.
2. Bid opening date and time remains August 18, 2022, at 1:30 pm
3. No other changes.

Terms and Conditions:

1. All provisions of the Solicitation and other addenda not modified herein shall remain in full force and effect.
2. Vendor should acknowledge receipt of all addenda issued for this Solicitation by completing an Addendum Acknowledgment, a copy of which is included herewith. Failure to acknowledge addenda may result in bid disqualification. The addendum acknowledgement should be submitted with the bid to expedite document processing.

CRQF DMT2300000001

BR 6.5 South End Partial Replacement Timber

Questions and Answers

Q1. When was this supply last bid?

A1. Last bid on June 11, 2019

Q2. Is there an available bid tabulation?

A2. Requesting copies of previously awarded contracts, other solicitations, or documents related to previous contracts through the question-and-answer process included in this solicitation is not appropriate. Requests for documentation of this nature can be obtained by interested parties through a Freedom of Information Act request

ADDENDUM ACKNOWLEDGEMENT FORM
SOLICITATION NO.: CRFQ DMT2300000001

Instructions: Please acknowledge receipt of all addenda issued with this solicitation by completing this addendum acknowledgment form. Check the box next to each addendum received and sign below. Failure to acknowledge addenda may result in bid disqualification.

Acknowledgment: I hereby acknowledge receipt of the following addenda and have made the necessary revisions to my proposal, plans and/or specification, etc.

Addendum Numbers Received:

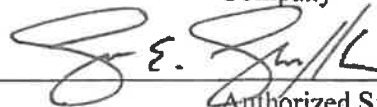
(Check the box next to each addendum received)

- | | |
|--|--|
| <input checked="" type="checkbox"/> Addendum No. 1 | <input type="checkbox"/> Addendum No. 6 |
| <input type="checkbox"/> Addendum No. 2 | <input type="checkbox"/> Addendum No. 7 |
| <input type="checkbox"/> Addendum No. 3 | <input type="checkbox"/> Addendum No. 8 |
| <input type="checkbox"/> Addendum No. 4 | <input type="checkbox"/> Addendum No. 9 |
| <input type="checkbox"/> Addendum No. 5 | <input type="checkbox"/> Addendum No. 10 |

I understand that failure to confirm the receipt of addenda may be cause for rejection of this bid. I further understand that that any verbal representation made or assumed to be made during any oral discussion held between Vendor's representatives and any state personnel is not binding. Only the information issued in writing and added to the specifications by an official addendum is binding.

Gregori Construction Inc.

Company



Authorized Signature

8/15/2022

Date

NOTE: This addendum acknowledgement should be submitted with the bid to expedite document processing.



Department of Administration
Purchasing Division
2019 Washington Street East
Post Office Box 50130
Charleston, WV 25305-0130

State of West Virginia
Centralized Request for Quote

Proc Folder: 1072251			Reason for Modification: Addendum No. 2
Doc Description: Construction-BR 6.5 South End Partial Replacement Timber			
Proc Type: Central Purchase Order			
Date Issued	Solicitation Closes	Solicitation No	Version
2022-08-09	2022-08-18 13:30	CRFQ 0810 DMT2300000001	3

BID RECEIVING LOCATION

BID CLERK
DEPARTMENT OF ADMINISTRATION
PURCHASING DIVISION
2019 WASHINGTON ST E
CHARLESTON WV 25305
US

VENDOR

Vendor Customer Code:

Vendor Name :

Address :

Street :

City :

State : **Country :** **Zip :**

Principal Contact :

Vendor Contact Phone: **Extension:**

FOR INFORMATION CONTACT THE BUYER

David H Pauline
304-558-0067
david.h.pauline@wv.gov

Vendor Signature X	FEIN#	DATE
-------------------------------	--------------	-------------

All offers subject to all terms and conditions contained in this solicitation

ADDITIONAL INFORMATION

Addendum No. 2

To attach Mandatory Pre-bid sign-in sheets, see attached

To attach inadvertently omitted Bid Bond form and instructions, see attached.

Bid opening remains August 18, 2022 at 1:30 pm est.

No other changes.

INVOICE TO

STATE RAIL AUTHORITY
120 WATER PLANT DR

MOOREFIELD
US

WV

SHIP TO

STATE RAIL AUTHORITY
(DBA) SOUTH BRANCH
VALLEY RAILROAD
120 WATER PLANT DR

MOOREFIELD
US

WV

Line	Comm Ln Desc	Qty	Unit Issue	Unit Price	Total Price
1	Replacement of Bridge 6.5 - South End	0.00000	EA		

Comm Code**Manufacturer****Specification****Model #**

72141603

Extended Description:

Replacement of BR 6.5 - South End

SCHEDULE OF EVENTS

<u>Line</u>	<u>Event</u>	<u>Event Date</u>
1	Mandatory Pre-Bid Meeting at 10:30 am est.	2022-08-09
2	Vendor Technical Questions Due By 11:00 am est.	2022-08-12

	Document Phase	Document Description	Page 3
DMT2300000001	Draft	Construction-BR 6.5 South End Partial Replacement Timber	

ADDITIONAL TERMS AND CONDITIONS

See attached document(s) for additional Terms and Conditions

SOLICITATION NUMBER: CRFQ DMT2300000001

Addendum Number: 2

The purpose of this addendum is to modify the solicitation identified as CRFQ DMT2300000001 to reflect the change(s) identified and described below.

Applicable Addendum Category:

- ☐ Modify bid opening date and time
- ☐ Modify specifications of product or service being sought
- ☒ To respond to technical questions
- ☐ Attachment of pre-bid sign-in sheet
- ☐ Correction of error
- ☐ Other

Additional Documentation:

1. To attach Mandatory Pre-bid sign-in sheets, see attached
2. To attach inadvertently omitted Bid Bond form and instructions, see attached.
2. Bid opening date and time remains August 18, 2022, at 1:30 pm
3. No other changes.

Terms and Conditions:

1. All provisions of the Solicitation and other addenda not modified herein shall remain in full force and effect.
2. Vendor should acknowledge receipt of all addenda issued for this Solicitation by completing an Addendum Acknowledgment, a copy of which is included herewith. Failure to acknowledge addenda may result in bid disqualification. The addendum acknowledgement should be submitted with the bid to expedite document processing.

Pre-Bid Sign-In Sheet

Solicitation Number: CRQS DMT 23*1Date of Pre-Bid Meeting: 8/9/2022Location of Prebid Meeting: Moorefield, WV Office**Please Note:**

Vendors must sign-in on this sheet to verify attendance at the Pre-Bid meeting.
Failure to legibly sign in may be grounds for declaring a vendor ineligible to bid.
For further verification, please also provide a business card if possible.

<u>Firm Represented:*</u>	<u>Rep Name (Printed):</u>	<u>Firm Address:</u>	<u>Telephone #:</u>	<u>Fax #:</u>	<u>Email:</u>
AMTRAC RR CONTRACTORS	ROBERT MATTHEWS	9436 EARLY DRIVE HAGERSTOWN, MD 21740	301-797-3690		R.MATTHEWS@ AMTRACMD.COM
Carl Beier Inc	DAVE SNYDER	P.O. Box 1210 CUMBERSBURG MO 21502	301-729-8900		dsnyder@thebeltgroup.com
Gregori Construction Inc.	Chris Serafine	P.O. Box 121 SARVER, Pa 16055	724-353-1322		estimating@gregori-inc.com
J.B. Turman	Brad Turman	P.O. Box 483 Barboursville WV	304-733-1331		bturman@jbtengineering.com
ROD MERIDIAN	Rod Warden	3092 Woodville Dr. Huntington WV 25701	304-522-3080		RMW34@AOL.com
WV Div. of Highways Dist 5 Traffic	Ken Clohan	PO Box 99 Burlington, WV	304-260-4392		Kenneth.L.clohan @ WV.gov

***One Vendor Per Representative** - No one individual is permitted to represent more than one vendor at the pre-bid meeting. Any individual that does attempt to represent two or more vendors will be required to select one vendor to which the individual's attendance will be attributed. The vendors not selected will be deemed to have not attended the pre-bid meeting unless another individual attended on their behalf.

Pre-Bid Sign-In Sheet

Solicitation Number: CRQS DMT 23*1
 Date of Pre-Bid Meeting: 8/9/2022
 Location of Prebid Meeting: Moorefield WV Office

Please Note:

Vendors must sign-in on this sheet to verify attendance at the Pre-Bid meeting.
 Failure to legibly sign in may be grounds for declaring a vendor ineligible to bid.
 For further verification, please also provide a business card if possible.

<u>Firm Represented:*</u>	<u>Rep Name (Printed):</u>	<u>Firm Address:</u>	<u>Telephone #:</u>	<u>Fax #:</u>	<u>Email:</u>
ORDERS Construction Company	Brian Carr	PO Box 1448 501 SIXTH AVE. SAINT ALBANS, WV 25177	304 722 4237 412 475 5297	304 722 4230	BrianC@ordersconstruction.com
WV DSH Traffic Division	Levi Whatzel	P.O. Box 99 Burlington WV	304 400 304-400-1234		Levi.I.Whatzel@wv.gov

***One Vendor Per Representative** - No one individual is permitted to represent more than one vendor at the pre-bid meeting. Any individual that does attempt to represent two or more vendors will be required to select one vendor to which the individual's attendance will be attributed. The vendors not selected will be deemed to have not attended the pre-bid meeting unless another individual attended on their behalf.

Agency _____
REQ.P.O# _____

BID BOND

KNOW ALL MEN BY THESE PRESENTS, That we, the undersigned, _____
_____ of _____, _____, as Principal, and _____
_____ of _____, _____, a corporation organized and existing under the laws of the State of _____
_____ with its principal office in the City of _____, as Surety, are held and firmly bound unto the State
of West Virginia, as Obligee, in the penal sum of _____ (\$ _____) for the payment of which,
well and truly to be made, we jointly and severally bind ourselves, our heirs, administrators, executors, successors and assigns.

The Condition of the above obligation is such that whereas the Principal has submitted to the Purchasing Section of the
Department of Administration a certain bid or proposal, attached hereto and made a part hereof, to enter into a contract in writing for

NOW THEREFORE,

(a) If said bid shall be rejected, or
(b) If said bid shall be accepted and the Principal shall enter into a contract in accordance with the bid or proposal
attached hereto and shall furnish any other bonds and insurance required by the bid or proposal, and shall in all other respects perform
the agreement created by the acceptance of said bid, then this obligation shall be null and void, otherwise this obligation shall remain in
full force and effect. It is expressly understood and agreed that the liability of the Surety for any and all claims hereunder shall, in no
event, exceed the penal amount of this obligation as herein stated.

The Surety, for the value received, hereby stipulates and agrees that the obligations of said Surety and its bond shall be in no
way impaired or affected by any extension of the time within which the Obligee may accept such bid, and said Surety does hereby
waive notice of any such extension.

WITNESS, the following signatures and seals of Principal and Surety, executed and sealed by a proper officer of Principal and
Surety, or by Principal individually if Principal is an individual, this _____ day of _____, 20____.

Principal Seal

(Name of Principal)

By _____
(Must be President, Vice President, or
Duly Authorized Agent)

(Title)

Surety Seal

(Name of Surety)

Attorney-in-Fact

IMPORTANT – Surety executing bonds must be licensed in West Virginia to transact surety insurance, must affix its seal, and must attach a power of attorney with its seal affixed.

BID BOND PREPARATION INSTRUCTIONS

AGENCY (A)
RFQ/RFP# (B)

- (A) WV State Agency
(Stated on Page 1 "Spending Unit")
(B) Request for Quotation Number (upper right corner of page #1)
(C) Your Business Entity Name (or Individual Name if Sole Proprietor)
(D) City, Location of your Company
(E) State, Location of your Company
(F) Surety Corporate Name
(G) City, Location of Surety
(H) State, Location of Surety
(I) State of Surety Incorporation
(J) City of Surety's Principal Office
(K) Minimum amount of acceptable bid bond is 5% of total bid. You may state "5% of bid" or a specific amount on this line in words.
(L) Amount of bond in numbers
(M) Brief Description of scope of work
(N) Day of the month
(O) Month
(P) Year
(Q) Name of Business Entity (or Individual Name if Sole Proprietor)
(R) Seal of Principal
(S) Signature of President, Vice President, or Authorized Agent
(T) Title of Person Signing for Principal
(U) Seal of Surety
(V) Name of Surety
(W) Signature of Attorney in Fact of the Surety

NOTE 1: **Dated Power of Attorney with Surety Seal must accompany this bid bond.**

Bid Bond

KNOW ALL MEN BY THESE PRESENTS, That we, the undersigned,
(C) of (D), (E)
as Principal, and (F) of (G),
(H), a corporation organized and existing under the laws
of the State of (I) with its principal office in the City of
(J), as Surety, are held and firmly bound unto The State
of West Virginia, as Oblige, in the penal sum of (K)
(\$ (L)) for the payment of which, well and truly to be made,
we jointly and severally bind ourselves, our heirs, administrators, executors,
successors and assigns.

The Condition of the above obligation is such that whereas the Principal has submitted to the Purchasing Section of the Department of Administration a certain bid or proposal, attached hereto and made a part hereof to enter into a contract in writing for _____
(M)

NOW THEREFORE

(a) If said bid shall be rejected, or
(b) If said bid shall be accepted and the Principal shall enter into a contract in accordance with the bid or proposal attached hereto and shall furnish any other bonds and insurance required by the bid or proposal, and shall in all other respects perform the agreement created by the acceptance of said bid then this obligation shall be null and void, otherwise this obligation shall remain in full force and effect. It is expressly understood and agreed that the liability of the Surety for any and all claims hereunder shall, in no event, exceed the penal amount of this obligation as herein stated

The Surety for value received, hereby stipulates and agrees that the obligations of said Surety and its bond shall be in no way impaired or affected by any extension of time within which the Oblige may accept such bid: and said Surety does hereby waive notice of any such extension.

WITNESS, the following signatures and seals of Principal and Surety, executed and sealed by a proper officer of Principal and Surety, or by Principal individually if Principal is an individual, the (N) day of (O), 20 (P).

Principal Seal

(R)

(Q)
(Name of Principal)

By (S)
(Must be President, Vice President, or
Duly Authorized Agent)

(T)
Title

Surety Seal

(U)

(V)
(Name of Surety)

(W)
Attorney-in-Fact

IMPORTANT – Surety executing bonds must be licensed in West Virginia to transact surety insurance, must affix its seal, and must attach a power of attorney with its seal affixed.

State of West Virginia
Purchasing Division

CERTIFIED DRUG-FREE WORKPLACE REPORT COVERSHEET

In accordance with **West Virginia Code** § 21-1D-7b, no less than once per year, or upon completion of the project, every contractor shall provide a certified report to the public authority which let the contract. That report must include each of the items identified below in the Required Report Content section.

Instructions: Vendor should complete this coversheet, attach it to the required report, and submit it to the appropriate location as follows: For contracts more than \$25,000, the report should be mailed to the West Virginia Purchasing Division at 2019 Washington Street East, Charleston, WV 25305. For contracts of \$25,000 or less, the vendor should mail the report to the public authority issuing the contract.

Contract Identification:

Contract Number: _____

Contract Purpose: _____

Agency Requesting Work: _____

Required Report Content: The attached report must include each of the items listed below. The vendor should check each box as an indication that the required information has been included in the attached report.

- ☐ Information indicating the education and training service to the requirements of **West Virginia Code** § 21-1D-5 was provided;
- ☐ Name of the laboratory certified by the United States Department of Health and Human Services or its successor that performs the drug tests;
- ☐ Average number of employees in connection with the construction on the public improvement;
- ☐ Drug test results for the following categories including the number of positive tests and the number of negative tests: (A) Pre-employment and new hires; (B) Reasonable suspicion; (C) Post-accident; and (D) Random.

Vendor Contact Information:

Vendor Name: _____

Vendor Telephone: _____

Vendor Address: _____

Vendor Fax: _____

Vendor E-Mail: _____



State of West Virginia
DRUG FREE WORKPLACE CONFORMANCE AFFIDAVIT
West Virginia Code §21-1D-5

I, _____, after being first duly sworn, depose and state as follows:

1. I am an employee of _____; and,
(Company Name)

2. I do hereby attest that _____
(Company Name)

maintains a written plan for a drug-free workplace policy and that such plan and policy are in compliance with ***West Virginia Code §21-1D***.

The above statements are sworn to under the penalty of perjury.

Printed Name: _____

Signature: _____

Title: _____

Company Name: _____

Date: _____

STATE OF WEST VIRGINIA,

COUNTY OF _____, TO-WIT:

Taken, subscribed and sworn to before me this _____ day of _____, _____.

By Commission expires _____

(Seal)

(Notary Public)



State of West Virginia
PURCHASING DIVISION
Construction Bid Submission Review Form

This list has been provided for informational purposes only and is not to be construed as a complete list of request for quotation or bidding requirements for any individual construction project. This list does not and cannot include every item, mistake or oversight that could cause a contractor's bid to be disqualified. Rather, this list is intended to draw attention to some of the most common problems that the Purchasing Division encounters in the bidding process for construction projects. All potential bidders must read the request for quotation, all additional documents, and all instructions relating thereto ("Bid Documents") in their entirety to identify the actual request for quotation and bidding requirements. Failure to read the Bid Documents in their entirety and comply with the stated requirements contained therein may result in bid disqualification.

Errors That Shall Be Reason for Immediate Bid Disqualification

1. Failure to attend a mandatory pre-bid meeting
2. Failure to sign the bid
3. Failure to supply a valid bid bond or other surety approved by the state of West Virginia
4. Failure to meet any mandatory requirement of the solicitation
5. Failure to acknowledge receipt of Addenda (only if stipulated as mandatory)
6. Failure to submit bid prior to the bid opening date and time
7. Federal debarment
8. State of West Virginia debarment or suspension

Errors that May Be Reason for Bid Disqualification Before Contract Award

1. Debt to the state or political subdivision (must be cured prior to award)
2. Workers' Compensation or Unemployment Compensation delinquency (must be cured prior to award)
3. Not registered as a vendor with the state of West Virginia (must be cured prior to award)
4. Failure to obtain required bonds and/or insurance
5. Failure to provide the sub-contractor listing within one business day of bid opening or one business day of the request to do so by the Purchasing Division.
6. Failure to supply West Virginia contractor's license number with bid or within one day of Purchasing Division request to do so.
7. Failure to supply a signed drug-free workplace affidavit with bid or within one day of Purchasing Division request to do so.
8. Failure to use the provided solicitation form (only if stipulated as mandatory).
9. Failure to complete the Disclosure of Interested Parties to Contracts form (if contract has an actual or estimated value of \$1 million or more; does not apply to publicly traded companies listed on national or internal stock exchange)

ADDENDUM ACKNOWLEDGEMENT FORM
SOLICITATION NO.: CRFQ DMT2300000001

Instructions: Please acknowledge receipt of all addenda issued with this solicitation by completing this addendum acknowledgment form. Check the box next to each addendum received and sign below. Failure to acknowledge addenda may result in bid disqualification.

Acknowledgment: I hereby acknowledge receipt of the following addenda and have made the necessary revisions to my proposal, plans and/or specification, etc.

Addendum Numbers Received:

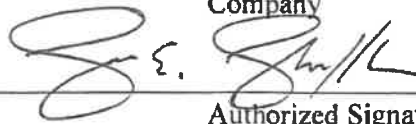
(Check the box next to each addendum received)

- | | |
|--|--|
| <input type="checkbox"/> Addendum No. 1 | <input type="checkbox"/> Addendum No. 6 |
| <input checked="" type="checkbox"/> Addendum No. 2 | <input type="checkbox"/> Addendum No. 7 |
| <input type="checkbox"/> Addendum No. 3 | <input type="checkbox"/> Addendum No. 8 |
| <input type="checkbox"/> Addendum No. 4 | <input type="checkbox"/> Addendum No. 9 |
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Gregori Construction Inc.

Company



Authorized Signature

8/15/2022

Date

NOTE: This addendum acknowledgment should be submitted with the bid to expedite document processing.



Department of Administration
Purchasing Division
2019 Washington Street East
Post Office Box 50130
Charleston, WV 25305-0130

State of West Virginia
Centralized Request for Quote

Proc Folder: 1072251			Reason for Modification: Addendum No. 3 to provide WV DOT DOH Special Provision For Section 628 Rock Anchors and move the questions due date.
Doc Description: Construction-BR 6.5 South End Partial Replacement Timber			
Proc Type: Central Purchase Order			
Date Issued	Solicitation Closes	Solicitation No	Version
2022-08-11	2022-08-18 13:30	CRFQ 0810 DMT2300000001	4

BID RECEIVING LOCATION

BID CLERK
DEPARTMENT OF ADMINISTRATION
PURCHASING DIVISION
2019 WASHINGTON ST E
CHARLESTON WV 25305
US

VENDOR

Vendor Customer Code:

Vendor Name :

Address :

Street :

City :

State :

Country :

Zip :

Principal Contact :

Vendor Contact Phone:

Extension:

FOR INFORMATION CONTACT THE BUYER

David H Pauline
304-558-0067
david.h.pauline@wv.gov

**Vendor
Signature X**

FEIN#

DATE

All offers subject to all terms and conditions contained in this solicitation

ADDITIONAL INFORMATION

Addendum No. 3

To attach WV DOT DOH Special Provision For Section 628 Rock Anchors, see attached

To move questions due date and time to August 15, 2022 at 11:00 am est.

Bid opening remains August 18, 2022 at 1:30 pm est.

No other changes.

INVOICE TO

STATE RAIL AUTHORITY
120 WATER PLANT DR

MOOREFIELD
US

WV

SHIP TO

STATE RAIL AUTHORITY
(DBA) SOUTH BRANCH
VALLEY RAILROAD
120 WATER PLANT DR

MOOREFIELD
US

WV

Line	Comm Ln Desc	Qty	Unit Issue	Unit Price	Total Price
1	Replacement of Bridge 6.5 - South End	0.00000	EA		

Comm Code**Manufacturer****Specification****Model #**

72141603

Extended Description:

Replacement of BR 6.5 - South End

SCHEDULE OF EVENTS

<u>Line</u>	<u>Event</u>	<u>Event Date</u>
1	Mandatory Pre-Bid Meeting at 10:30 am est.	2022-08-09
2	Vendor Technical Questions Due By 11:00 am est.	2022-08-15

	Document Phase	Document Description	Page 3
DMT2300000001	Draft	Construction-BR 6.5 South End Partial Replacement Timber	

ADDITIONAL TERMS AND CONDITIONS

See attached document(s) for additional Terms and Conditions

SOLICITATION NUMBER: CRFQ DMT2300000001

Addendum Number: 3

The purpose of this addendum is to modify the solicitation identified as CRFQ DMT2300000001 to reflect the change(s) identified and described below.

Applicable Addendum Category:

- ☐ Modify bid opening date and time
- ☐ Modify specifications of product or service being sought
- ☐ To respond to technical questions
- ☐ Attachment of pre-bid sign-in sheet
- ☐ Correction of error
- ☒ Other

Additional Documentation:

1. To attach WV DOT DOH Special Provision for Section 628 Rock Anchors, see attached
2. To move questions due date and time to August 15, 2022, at 11:00 am est.
2. Bid opening date and time remains August 18, 2022, at 1:30 pm
3. No other changes.

Terms and Conditions:

1. All provisions of the Solicitation and other addenda not modified herein shall remain in full force and effect.
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WEST VIRGINIA DEPARTMENT OF TRANSPORTATION

DIVISION OF HIGHWAYS

SPECIAL PROVISION

FOR

STATE PROJECT NUMBER: _____

FEDERAL PROJECT NUMBER: _____

**SECTION 628
ROCK ANCHORS**

628.1-GENERAL:

628.1.1-Description: This work shall consist of furnishing and installing rock anchors in accordance with this special provision, AASHTO LRFD Bridge Construction Specifications (4th Edition, 2017), and in reasonably close conformity with the dimensions, locations and details shown on the Plans or established by the Engineer.

628.1.2-Prequalification of Contractor: A contractor experienced in permanent rock anchor installation shall perform the rock anchor work. The anchor contractor's qualifications must be submitted to the Engineer fourteen (14) calendar days before rock anchor work begins. The following is a list of the requirements:

1. The contractor must be experienced in the design and construction of permanently anchored walls.
2. The contractor's staff shall include at least one registered Professional Engineer in the state of West Virginia with at least five years of supervisory experience in the design and construction of permanently anchored walls.
3. The foreman shall have a minimum of five years' experience in constructing permanently anchored walls.
4. The contractor shall have constructed (or have under construction) a minimum of five projects (in the last five years) that are similar in concept and scope to the proposed wall.

628.1.3-CONTRACTOR'S DESIGNS:

The Contractor shall prepare a complete design for the anchors they propose to use. This design shall conform to the criteria on the Plans, Specifications, and other documents referenced therein. The design shall be based on the Contractor's experience on similar work and on accepted practice described in AASHTO LRFD Bridge Construction Specifications "Section 6: Ground Anchors". The design shall also include the corrosion protection scheme for the bar as well as the anchor head.

The Contractor is cautioned that the soil and rock information shown on the Plans is based on a limited number of borings. The actual conditions and elevations may differ from those shown.

Any design different from that shown on the Plans shall be prepared and sealed by a duly licensed Professional Engineer in the state of West Virginia. The design and working drawings shall be reviewed by the Engineer to confirm that the design meets the design requirements.

The Contractor may use a nominal (ultimate) grout-rock bond stress higher than 118 psi, provided that a field pullout test is performed by the Contractor to confirm the higher bond stress. The anchor to be pullout tested shall have a minimum bond length of 13'-6". The pullout test shall be done at no cost to the State Rail Authority (SRA). The requirement for the pullout test can be waived if the contractor shows a proof test result of anchors bonded in bedrock similar to that present at the site. If the Contractor chooses to use a higher bond stress, the Contractor will be responsible for failed performance tests and/or proof test as a result of using a higher bond stress. The cost of installing and re-testing additional anchors will be the responsibility of the Contractor.

For alternate designs it shall be assumed that all structural parts shown on the Plans, such as wales, piles and connections, are fully stressed. Any additional stresses imposed on such structural parts and on the anchors themselves, due to design changes such as a steeper slope of the anchors, will require strengthening of various parts. Such strengthening shall be done at no cost to the SRA, nor will the contract amount be reduced because of any shortening of anchors due to design changes.

628.2-MATERIALS:

Materials shall conform to the requirements specified in the following Subsections:

MATERIAL	SUBSECTION
Portland Cement	701.1
Fine Aggregate	702.1
Prestressing Steel	709.2
Structural Steel	709.12

Minimum grout strength at stressing shall be 3,500 psi. Expansion additives in grout will not be allowed. Grout shall not be re-tempered or used after it has begun to set. Proportioning mix design requirements (including requirements for submission to the SRA), quality control, and testing of grout (including number, size and shape of samples) shall conform to the applicable provisions of Subsections 601.3 and 601.4.

All other materials, including sheaths, grease, tubes, centralizers and spacers, shall be of good quality, acceptable to the Engineer. The contractor shall submit Manufacturer's certificates and catalogs, tests reports or other such documents, as required by the Engineer.

628.3-PREPARATION OF ANCHOR:

The anchor bar shall be fabricated in accordance with approved details and shall be free of dirt, or other deleterious substances. Light rust or rust stains that can be wiped off with a rag may be allowed. Prior to installation, the anchor bar shall be handled and stored in such a manner as to avoid corrosion and physical damage. Damage such as abrasions, cuts, nicks, welds, weld splatters, or heavy corrosion and pitting will be cause for rejection. Rejected anchor bars shall be

replaced at no cost to the SRA in terms of either material replacement or resulting time delay. Care shall be taken during handling and installation to prevent any sharp bends of the bars.

The bond length shall be degreased prior to installation.

For corrosion protection, the anchor bar is engulfed in a pre-grouted poly corrugated tube in the bond anchorage zone and the free-stressing zone. A smooth PVC sleeve will surround the corrugated tube in the free-stressing zone. The end of the bar is surrounded by corrosion inhibiting compound in accordance with ASTM B117; ASTM D1743 and capped with a nylon reinforced end cap.

If the bond length is grouted and the anchor stressed before grouting the stressing length, the Contractor must provide a means to ensure that the grout covers the entire bond length plus two feet of the stressing length.

Provide centralizers to center the polypropylene tube in the hole, both in the stressing and in the bond portion. These centralizers shall be provided at a maximum of five-foot intervals throughout the bond length of the anchor in the stressing length, so that no less than 0.5 inches of grout cover is achieved surrounding the anchor.

Centralizers and spacers may be made of any material, except wood, not deleterious to the prestressing steel. Centralizers must be approved by the Engineer prior to use.

The entire polypropylene (or polyethylene) tube, together with any trumpet used under the anchor head, including all joints, shall be water and mortar tight. Provide seals, gaskets and the like as required.

The anchor bar, the anchor head, and any other metallic parts of the anchor, shall be electrically insulated from piles and wales, to the Engineer's satisfaction.

628.4-INSTALLATION:

628.4.1-General: Anchor centerlines shall not deviate from their planned location by more than 3 degrees, nor shall they approach each other closer than 4 feet at their lower ends.

A resistance factored unit bond stress and a set of estimated required bonded lengths and corresponding grouted diameters are specified on the plan. Should the Contractor decide to use a different factored unit bond stress, he shall be responsible for determining the bond length necessary to develop adequate load capacity to satisfy anchor testing acceptance criteria for the design load. Any rock anchor that does not meet the test acceptance criteria shall be replaced at no additional cost to the SRA.

The diameter of the drilled hole shall be adequate for grouting inside and outside the polypropylene tube. The hole shall be free of fall-in soil or other debris immediately prior to grouting.

628.4.2-Hole in the Stressing Length: Casing of portions of many or all holes may be needed to maintain an open clean hole. There will be no additional compensation for such casings; their cost shall be included in the bid prices.

628.4.3-Hole in the Bond Length: Drilling Logs shall be prepared in a manner approved by the Engineer, and submitted daily to the SRA on-site inspector. They shall contain the following information:

1. Characteristics of all materials encountered during the drilling process, and their specific location(s) within the holes
2. Length of each run with percentage of core recovery

3. The location of special features such as mud seams, open cracks, broken rock, etc.
4. Points where abnormal loss or gain to drill water has occurred
5. Groundwater levels or other items of interest for grouting
6. All significant actions of the bit
7. If any weak material, such as coal, clay, weathered rock or the like is encountered within the required bond length, the hole shall be extended to compensate for the weak material.
8. If large voids are encountered, consolidation grouting and re-drilling of the hole will be required. The grout shall be injected at the lowest point of the drill hole and shall proceed such that the hole is filled progressively from the bottom to the top, in order to prevent air voids.

Consolidation grout should have a water/cement ratio of between 0.45 and 0.55. Variations from these ratios shall require an approval from the Engineer prior to the placement. Special measures (such as stiff grout mixes) may be required to prevent or reduce grout loss. A consolidation-grouted hole shall not be re-drilled until the grout has had a minimum of 24 hours to set up.

628.4.4-Grouting: During grouting, the end of the grout pipe shall be covered by at least 2 feet of wet grout. Grouting shall proceed from the bottom up, to prevent air voids. The grout in the stressing length must not interfere with the stressing operation; anchor bars in the stressing length must not develop any bond to the surrounding grout. To achieve this, the grout inside the polypropylene tube shall preferably be placed after stressing.

The grout shall be placed over the entire bond length without interruption. The anchor shall then remain undisturbed until the grout has reached strength of 3500 psi. The following data shall be recorded and submitted to the Engineer, about the grouting operation, on a daily basis:

1. Type of Mixer
2. Type of Cement and Water/Cement Ratio
3. Type of Additives (if approved)
4. Grout Pressure
5. Test Sample Strengths (prior to stressing)
6. Volume of Grout placed in the Bond and in the Stressing Lengths

628.4.5-Corrosion Protection of Anchorage: Following acceptance of the anchor by the Engineer, the portion of each bar extending past the lock-off plate shall be cut off with Carborundum blades in a manner that will not develop excessive heat. The bar anchorage shall not be damaged by the cutting operation. All stressing anchorages shall be encased in concrete at least 4 inches or as shown on the plan.

The trumpet shall be sealed by bearing plate and shall overlap the unbonded length corrosion protection by at least 6 inches. The trumpet shall be long enough to accommodate movement of the structure and the bar during testing and stressing. The trumpet shall also be long enough to enable the bar to make a transition from the diameter of the bar along the unbonded length to the diameter of the bar at the wedge plate without damaging the encapsulation.

The trumpet shall be completely filled with grout, which must be placed after the ground anchor has been tested and stressed to the lock-off load. The trumpet shall either have a

temporary seal between the trumpet and the unbonded length corrosion protection or shall fit tightly over the unbonded length corrosion protection for a minimum of 6 inches.

628.5-ANCHOR TESTS:

In the following sections, AL denotes alignment load (0.10P) and P denotes the anchor design load.

628.5.1-Performance Test: A performance test shall be carried out on the first anchor stressed and on one additional anchor selected by the Engineer. During the performance test, the contractor shall incrementally load and unload the anchor in accordance with the following schedule. The movement of the bar shall be recorded to the nearest 0.001 inches at each increment, with respect to an independent (fixed) reference point. The load applied by the jack shall be monitored with a pressure gauge and preferably a load cell.

Each load shall be held for a minimum of one minute with the maximum loading being held for 60 minutes.

All leaks in the jacking system shall be repaired as discovered and the test restarted at the initial reading.

Cycle 1	Cycle 2	Cycle 3	Cycle 4	Cycle 5	Cycle 6
AL	AL	AL	AL	AL	AL
0.25 P	0.25 P	0.25 P	0.25 P	0.25 P	0.25 P
	0.50 P	0.50 P	0.50 P	0.50 P	0.50 P
	0.25 P	0.75 P	0.75 P	0.75 P	0.75 P
		0.50 P	1.00 P	1.00 P	1.00 P
		0.25 P	0.75 P	1.20 P	1.20 P
			0.50 P	1.00 P	1.33 P (Max)
			0.25 P	0.75 P	- Hold for creep test
				0.50 P	- Reduce for lock-off load, P
				0.25 P	

All anchors undergoing performance tests shall hold the maximum load, i.e. 1.33P, for 10 minutes (or 60 minutes). The jack shall be repumped as necessary in order to maintain a constant load. During this period, the anchor movement with respect to a fixed reference point shall be recorded at 0 seconds, 30 seconds, 1 minute, 2, 3, 4, 5, 6, and 10 minutes (and 15, 20, 25, 30, 45, and 60 minutes). The dial gauge used for monitoring movement shall be capable of reading the entire movement without resetting. Upon passing the acceptance criteria in 628.5.4, the anchor shall be adjusted to lock-off load, P.

628.5.2-Lift-Off Test: A lift-off test shall be part of the performance test. After transferring the load to the end anchorage, a lift-off reading shall be made. The load determined from the lift-off reading shall be within 5 percent of the desired transfer or lock-

off load otherwise the end anchorage shall be reset to the design load and another lift-off reading shall be made.

Lift-off tests can be made a minimum of 24 hours, and a maximum of 7 days, after the design load has been locked-off in the anchor. The results of the test shall be submitted to the Engineer on the day of the test. All bars which are to be lift tested must have an adequate length of bar left protruding over the anchorage to permit jacking. The jack utilized for lift-off testing shall be calibrated within two weeks of testing and at intervals of approximately 3 months throughout testing. The contractor shall furnish the calibration chart and submit it to the Engineer.

628.5.3-Proof Test: All anchors not performance tested shall be proof tested by incrementally loading the anchor in accordance with the following schedule. Load and movement shall be monitored as stated in 628.5.1.

Load
AL
0.25 P
0.50 P
0.75 P
1.00 P
1.20 P
1.33 P (Max)
- Hold for creep test
- Reduce to lock-off load, P

The proof test results shall be compared to the performance test results. Any significant variation from the performance test results may require a performance test on the next anchor. Lift-off tests for proof tested anchors may be required as designated by the Engineer. The Contractor shall do all additional tests due to inadequate results of a proof test at no cost to the SRA.

Upon passing the acceptance criteria in 628.5.4, the anchor shall be adjusted to lock-off load, P.

628.5.4-Acceptance Criteria: A performance-tested or proof-tested rock anchor with a 10-minute load hold shall be accepted if (1) the rock anchor resists the maximum test load with less than 0.04" of movement between 1 minute and 10 minutes; and (2) the total elastic movement at maximum test load exceeds 80% of the theoretical elastic elongation of the unbonded length; or (3) the total elastic movement at the maximum test load does not exceed the theoretical elastic elongation of the unbonded length plus 50% of the theoretical elongation of the bonded length.

A performance-tested or proof-tested rock anchor with a 60-minute load hold shall be accepted if (1) the rock anchor resists the maximum test load with a creep rate that does not exceed 0.08" in the last log cycle of time; and (2) the total elastic movement at maximum test load exceeds 80% of the theoretical elastic elongation of the unbonded length.

The initial lift-off reading shall be within +5% of the design lock-off load. If this criterion is not met, the tendon load shall be adjusted accordingly and the initial lift-off reading repeated.

If any anchor fails to meet the acceptance criteria, the Contractor shall determine, if possible, the reason for failure. An additional anchor shall be installed in accordance with this specification at a location approved by the Engineer and tested to verify that the capacity of the new anchor meets the 1.33 P load. The SRA will make no payment for failed anchor. An additional anchor in this area shall be performance tested when a failure occurs, at no cost to the SRA.

Records shall be kept of the load and elongation for each increment of loading for each tieback and shall be furnished to the Engineer following the completion of each test.

628.6-METHOD OF MEASUREMENT:

628.6.1-Rock Anchors, Installed, per each: The work performed for rock anchor installation shall be included in this item. The quantity of work performed to install the rock anchors as described above and to the depth shown on the plans will be paid for at the contract unit price bid for this item below. This price and payment shall include furnishing all material required for installation of the anchor, grouting of the anchor as specified or required, proof testing of all anchors, covering of anchor heads, and replacing failed anchors.

628.6.2-Rock Anchor Performance Test, per each: This item covers the cost of a performance test, over and above that of the proof test. (Cost of proof test is included in the item, "Rock Anchors, Installed").

628.6.3-Additional Anchor Length, per foot: This item will be applicable if the actual elevation of sound rock is, on the average, lower than that indicated on the Plans, and if weak materials are encountered in the sound rock, as described under 628.4.3 above. The measurement will be based on the anchor slope shown on the Plans.

This item shall be exercised after the installation of soldier piles but prior to the fabrication of tiebacks. The anchor stressing lengths shall be reevaluated and adjusted if needed by the Engineer based on top of sound rock information obtained during soldier pile installation. The reevaluated anchor stressing lengths will be compared to the Contractor's bid quantity to determine the quantity for this bid item.

628.6.4-Drilled Hole, 4.5" Diameter, per linear foot: This item will occur if large voids are encountered in the sound rock as described under 628.4.3 above. The hole diameter of 4.5" coincides with item, "Additional Anchor Length", and the anchor specifications used under item "Rock Anchors, Installed". The required length of re-drilling will be measured, based on the anchor slope shown on the Plans.

628.6.5-Pressure Injected Grout, per cubic foot: This item will be applicable if large voids are encountered in the sound rock as described under 628.4.3 above. Measurement will be based on the actual cubic foot amount of cement used in the grout that is injected in the void.

628.7-BASIS OF PAYMENT:

The quantities, determined as provided above, will be paid for at the contract unit prices bid for the items below, which prices and payments shall be full compensation for furnishing all materials and doing all the work in a workmanlike and acceptable manner, including all tools, equipment, supplies, labor and incidentals necessary to complete the job.

628.8-PAY ITEMS:

ITEM	DESCRIPTION	UNIT
628007-001	Rock Anchors, Installed	Each
628007-002	Rock Anchor Performance Test	Each
628007-003	Additional Anchor Length	Linear Foot
628001-001	Drilled Hole, 4.5" Diameter	Linear Foot
628002-001	Pressure Injected Grout	Cubic Foot

ADDENDUM ACKNOWLEDGEMENT FORM
SOLICITATION NO.: CRFO DMT2300000001

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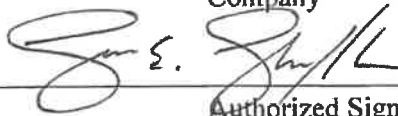
(Check the box next to each addendum received)

- | | |
|--|--|
| <input type="checkbox"/> Addendum No. 1 | <input type="checkbox"/> Addendum No. 6 |
| <input type="checkbox"/> Addendum No. 2 | <input type="checkbox"/> Addendum No. 7 |
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Gregori Construction Inc.

Company



Authorized Signature

8/15/2022

Date

NOTE: This addendum acknowledgement should be submitted with the bid to expedite document processing.



Department of Administration
Purchasing Division
2019 Washington Street East
Post Office Box 50130
Charleston, WV 25305-0130

State of West Virginia
Centralized Request for Quote

Proc Folder: 1072251			Reason for Modification: Addendum No. 4
Doc Description: Construction-BR 6.5 South End Partial Replacement Timber			
Proc Type: Central Purchase Order			
Date Issued	Solicitation Closes	Solicitation No	Version
2022-08-16	2022-09-01 13:30	CRFQ 0810 DMT2300000001	5

BID RECEIVING LOCATION

BID CLERK
DEPARTMENT OF ADMINISTRATION
PURCHASING DIVISION
2019 WASHINGTON ST E
CHARLESTON WV 25305
US

VENDOR

Vendor Customer Code:

Vendor Name :

Address :

Street :

City :

State : **Country :** **Zip :**

Principal Contact :

Vendor Contact Phone: **Extension:**

FOR INFORMATION CONTACT THE BUYER

David H Pauline
304-558-0067
david.h.pauline@wv.gov

Vendor Signature X	FEIN#	DATE
-------------------------------	--------------	-------------

All offers subject to all terms and conditions contained in this solicitation

ADDITIONAL INFORMATION

Addendum No. 4

To move Bid opening date and time to September 1, 2022 at 1:30 pm est.

No other changes.

INVOICE TOSTATE RAIL AUTHORITY
120 WATER PLANT DRMOOREFIELD
US

WV

SHIP TOSTATE RAIL AUTHORITY
(DBA) SOUTH BRANCH
VALLEY RAILROAD
120 WATER PLANT DR
MOOREFIELD
US

WV

Line	Comm Ln Desc	Qty	Unit Issue	Unit Price	Total Price
1	Replacement of Bridge 6.5 - South End	0.00000	EA		

Comm Code**Manufacturer****Specification****Model #**

72141603

Extended Description:

Replacement of BR 6.5 - South End

SCHEDULE OF EVENTS

<u>Line</u>	<u>Event</u>	<u>Event Date</u>
1	Mandatory Pre-Bid Meeting at 10:30 am est.	2022-08-09
2	Vendor Technical Questions Due By 11:00 am est.	2022-08-15

	Document Phase	Document Description	Page 3
DMT2300000001	Draft	Construction-BR 6.5 South End Partial Replacement Timber	

ADDITIONAL TERMS AND CONDITIONS

See attached document(s) for additional Terms and Conditions

SOLICITATION NUMBER: CRFQ DMT2300000001

Addendum Number: 4

The purpose of this addendum is to modify the solicitation identified as CRFQ DMT2300000001 to reflect the change(s) identified and described below.

Applicable Addendum Category:

- ☒ Modify bid opening date and time
- ☐ Modify specifications of product or service being sought
- ☐ To respond to technical questions
- ☐ Attachment of pre-bid sign-in sheet
- ☐ Correction of error
- ☐ Other

Additional Documentation:

- 1. Bid opening date and time is moved to September 1, 2022, at 1:30 pm**
- 2. No other changes.**

Terms and Conditions:

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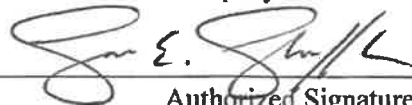
(Check the box next to each addendum received)

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|--|--|
| <input type="checkbox"/> Addendum No. 1 | <input type="checkbox"/> Addendum No. 6 |
| <input type="checkbox"/> Addendum No. 2 | <input type="checkbox"/> Addendum No. 7 |
| <input type="checkbox"/> Addendum No. 3 | <input type="checkbox"/> Addendum No. 8 |
| <input checked="" type="checkbox"/> Addendum No. 4 | <input type="checkbox"/> Addendum No. 9 |
| <input type="checkbox"/> Addendum No. 5 | <input type="checkbox"/> Addendum No. 10 |

I understand that failure to confirm the receipt of addenda may be cause for rejection of this bid. I further understand that that any verbal representation made or assumed to be made during any oral discussion held between Vendor's representatives and any state personnel is not binding. Only the information issued in writing and added to the specifications by an official addendum is binding.

Gregori Construction Inc.

Company



Authorized Signature

8/22/2022

Date

NOTE: This addendum acknowledgment should be submitted with the bid to expedite document processing.



Department of Administration
Purchasing Division
2019 Washington Street East
Post Office Box 50130
Charleston, WV 25305-0130

**State of West Virginia
Centralized Request for Quote**

Proc Folder: 1072251			Reason for Modification: Addendum No. 5
Doc Description: Construction-BR 6.5 South End Partial Replacement Timber			
Proc Type: Central Purchase Order			
Date Issued	Solicitation Closes	Solicitation No	Version
2022-08-22	2022-09-01 13:30	CRFQ 0810 DMT2300000001	6

BID RECEIVING LOCATION

BID CLERK
DEPARTMENT OF ADMINISTRATION
PURCHASING DIVISION
2019 WASHINGTON ST E
CHARLESTON WV 25305
US

VENDOR

Vendor Customer Code:

Vendor Name :

Address :

Street :

City :

State :

Country :

Zip :

Principal Contact :

Vendor Contact Phone:

Extension:

FOR INFORMATION CONTACT THE BUYER

David H Pauline
304-558-0067
david.h.pauline@wv.gov

**Vendor
Signature X**

FEIN#

DATE

All offers subject to all terms and conditions contained in this solicitation

ADDITIONAL INFORMATION

Addendum No. 4

To respond to vendor technical questions, see attached.

To publish revised plan sheets, see attached.

Bid opening remains September 1, 2022 at 1:30 pm est.

No other changes.

INVOICE TOSTATE RAIL AUTHORITY
120 WATER PLANT DRMOOREFIELD
US

WV

SHIP TOSTATE RAIL AUTHORITY
(DBA) SOUTH BRANCH
VALLEY RAILROAD
120 WATER PLANT DR
MOOREFIELD
US

WV

Line	Comm Ln Desc	Qty	Unit Issue	Unit Price	Total Price
1	Replacement of Bridge 6.5 - South End	0.00000	EA		

Comm Code	Manufacturer	Specification	Model #
72141603			

Extended Description:

Replacement of BR 6.5 - South End

SCHEDULE OF EVENTS

<u>Line</u>	<u>Event</u>	<u>Event Date</u>
1	Mandatory Pre-Bid Meeting at 10:30 am est.	2022-08-09
2	Vendor Technical Questions Due By 11:00 am est.	2022-08-15

	Document Phase	Document Description	Page 3
DMT2300000001	Draft	Construction-BR 6.5 South End Partial Replacement Timber	

ADDITIONAL TERMS AND CONDITIONS

See attached document(s) for additional Terms and Conditions

SOLICITATION NUMBER: CRFQ DMT2300000001
Addendum Number: 5

The purpose of this addendum is to modify the solicitation identified as CRFQ DMT2300000001 to reflect the change(s) identified and described below.

Applicable Addendum Category:

- ☐ Modify bid opening date and time
- ☐ Modify specifications of product or service being sought
- ☒ To respond to technical questions
- ☐ Attachment of pre-bid sign-in sheet
- ☐ Correction of error
- ☒ Other

Additional Documentation:

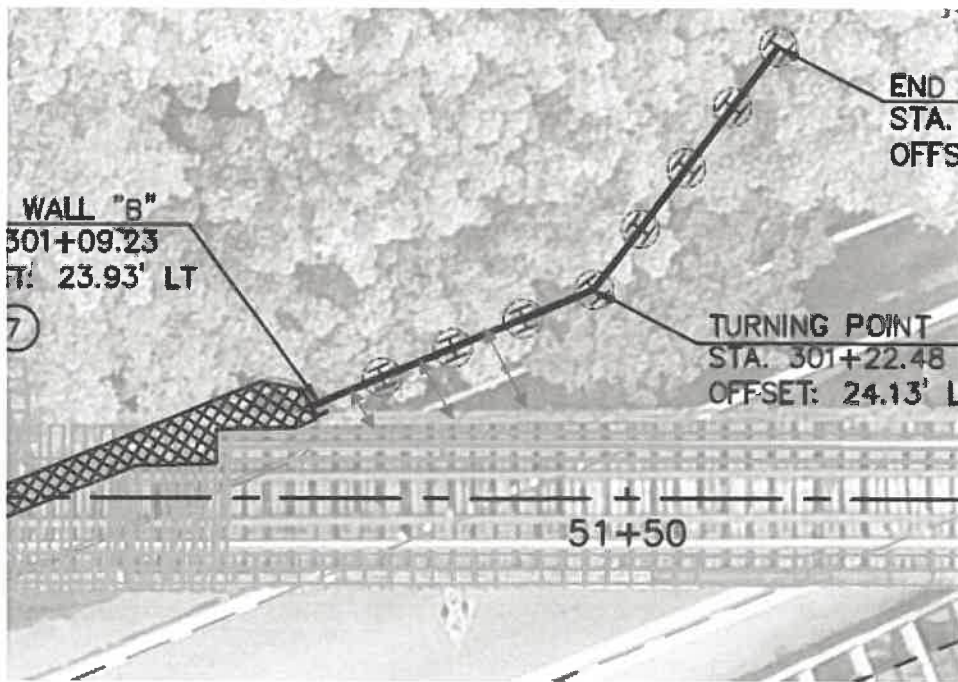
1. To respond to vendor technical questions, see attached.
2. To publish revised plan sheets, see attached.
3. Bid opening date and time remains September 1, 2022, at 1:30 pm
4. No other changes.

Terms and Conditions:

1. All provisions of the Solicitation and other addenda not modified herein shall remain in full force and effect.
2. Vendor should acknowledge receipt of all addenda issued for this Solicitation by completing an Addendum Acknowledgment, a copy of which is included herewith. Failure to acknowledge addenda may result in bid disqualification. The addendum acknowledgement should be submitted with the bid to expedite document processing.

Questions and Answers for DMT 23*01

Q1. In the image below, the working distance between the wall face and the existing bridge does not allow for a drill head or anchor rod to fit in this space for the tieback installation. Please advise



A1. See revised sheets. Pile size has been modified to support the loading without anchors.

Q2. To what elevation can the wall be backfilled without the installation of the tie back anchors?

A2. Elevation 771.

Q3. Do you have an anticipated start date for the project?

A3. *When the successful contractor has completed all required paperwork with the Purchasing Division, a purchase order will be issued and a notice to proceed letter will be sent. At that time, the vendor can order materials.*

Q4. I see in the specs it is a one-year time frame, is that to allow a spring start while acquiring materials this fall and winter?

A4. *Once the contractor receives a notice to proceed, they can order materials. The railroad understands there will be a delay in material delivery, so an anticipated spring start date is acceptable.*

Q5. Is a bid submission through wvOasis acceptable?

A5. YES

Q6. Sheet 14 has a note that the telephone line is to be relocated by others, has the telephone company been notified already?

A6. Yes, the telephone company (Frontier) has been notified. On 8/9/2022, Frontier indicated that the line was scheduled to be completely relocated by 9/12/2022.

Q7. In reference to the proposed railway typical section shown on sheet 2. If clearance is made for the beam and lagging to be installed, is it required that the existing rock be busted out to create the 1:1 profile and 5' flat bench behind the wall?

A7. Creating a 5-foot bench and 1:1 backslope will not be required in rock.

Q8. Special Provision 645 is project specific. Please provide us with a copy.

A8. This was included as an addendum

Q9. Is a tie replacement plan available? Is dapping required?

A9. No. Dapping is not anticipated.

Q10. Is there new guard timber required on the bridge?

A10. New guard timber is not required or anticipated.

Q11. Is new OTM to be provided?

A11.

Q12. Is it permissible to install the 6" EPS foam in (3) 2" layers?

A12. Yes.

Q13. Sheet 11, bottom of the backfill, are there specifications on the impermeable geomembrane?

A13. The impermeable geomembrane should meet Geosynthetics Research Institute (GRI)-GM17 Standard Specifications. A product such as Hyradflex Ultra HU20B or equal will be acceptable.

Q14. Will the railroad shut down for a few weeks during this project?

A14. *No absolutely not. The specifications state that closure of the rail line is permitted between Thursday afternoon and Monday morning. The intent for this project is that the rail line be closed only one time throughout the duration of the project.*

Q15. Does the railroad put the railroad tracks back?

A15. *No – it is the contractor's responsibility to put the tracks back.*

Q16. Do we take all the wooden timbers out?

A16. All timbers shall be removed. Round, driven timber piles shall be cut off at existing ground level.

Q17. Can the hole for the pier foundation drain be core drilled into a standard lagging panel?

A17. Pipe penetrations can be cast-in-place or precast. Details for pipe penetrations have been provided on sheet 6 of the plans.

Q18. Is the pier foundation drain to be daylighted at both ends of the pier or only the Southern end?

A18. The foundation drain can daylight at the southern, northern, or both ends of the pier.

Q19. When is the anticipated notice to proceed?

A19. See A3

Q20. Are there specifications on the neoprene on the backwall?

A20. Elasticized Expanded Polystyrene (EPS) shall be as provided in Special Provision 645.

Q21. Sheet 8, fabricated steel, there are conflicting notes between ½" thick and ¾" plate. Do both ends need to have (2) angles? Are these fabricated components to be painted or hot dipped galvanized?

A21. Plates are ¾", angles are as shown in plans. Both ends have (2) angles. Fabricated components are to be painted.

Q22. The borings provided stop shorter than the anticipated piling elevations. Do the borings from the previous work go any deeper?

A22. No.

Q23. The timber bents at the Southern end of the bridge appear to be a round, driven timber pile, what are the removal limits?

A23. See "A16".

Q24. Would a precast backwall, with vertical chase pipes for doweling and grouting be acceptable?

A24. Yes. Precast designs shall be performed and sealed by a registered professional engineer in the state of West Virginia. Designs should be submitted to the State Rail Authority at least 14 days prior to beginning the precast operations so they can be reviewed and approved.

Q25. Please provide a ballast specification.

A25. *Ballast shall be crushed stone and shall conform to the one of the following sizes:*

Ballast #3

Size of Opening	Percent Passing by Weight
2 ½"	100
2"	95 – 100
1 ½"	35 – 70
1"	0 – 15
½"	0

Ballast #4	
Size of Opening	Percent Passing by Weight
2"	100
1 ½"	90 – 100
1"	20 – 55
¾"	0 - 15

Q26. Sheet 7 has details for both 6" and 8" lagging, Sheet 16 legend shows all 8" lagging. Is 8" lagging to be used for the entire wall?

A26. Yes, the entire wall utilizes 8-inch concrete lagging.

Q27. Can the existing guardrail and throw beam guardrail bridge transition be reinstalled?

A27. Guardrail to be bid as shown in the plans.

Q28. Is the rear face of the precast lagging panels to receive any coating/damp proofing?

A28. No, precast lagging shall be as specified in the WVDOH Standard Specifications and 2022 Supplemental Specifications.

Q29. What is the specification for the crossties?

A29. 7" X 9" X 8'-6", Northern Red Oak per 622. Creosote coated per AWPA PI/UC4A.

Q30. Are we to save and reuse the existing tie plates and rail anchors? If not, please advise quantity and specification.

A30. Yes

Q31. When we make the 4 required saw cuts and remove the rail, will we be permitted to back drill the rail ends for temporary bars? This would allow us to quickly put the track back in service should the schedule slip. As we cannot have any vibrations in the rail while making the thermite welds, this would also allow us (if necessary) to come back after construction is complete to do the welds.

A31. Yes

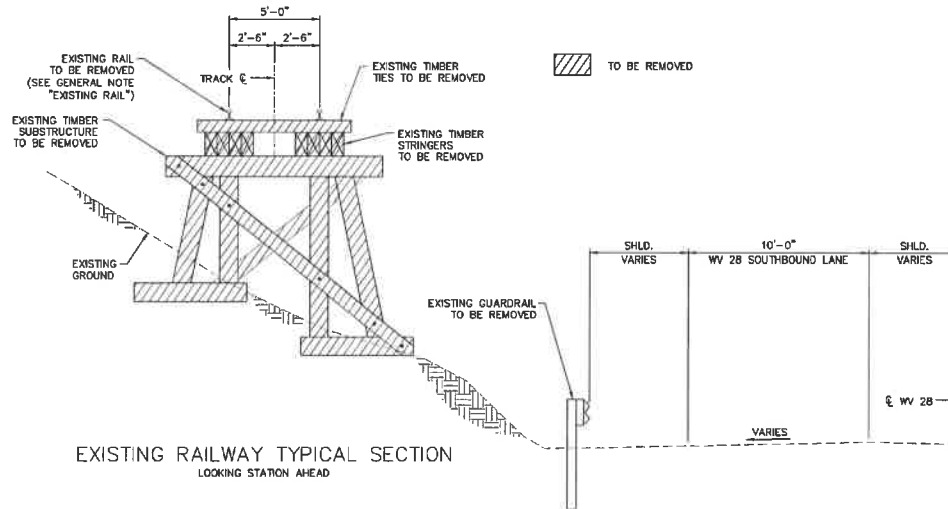
Q32. For safety reason, we will have to shut down the Southbound Lane of Route 28 for approximately 1 hour while we make the two thermite welds above the road. Will there be any problems with this?

A32. As shown in the Maintenance of Traffic Plans, the southbound lane will be closed for the duration of the project.

Q33. General Sheet 1 of 2 says we cannot work between the hours of 10:00 PM to 6:00 AM if within 600' of a house. It appears the Wellness Center is 500' from the Bridge. Since a serious amount of work will have to be performed during the one weekend rail shutdown, can this restriction be waived?

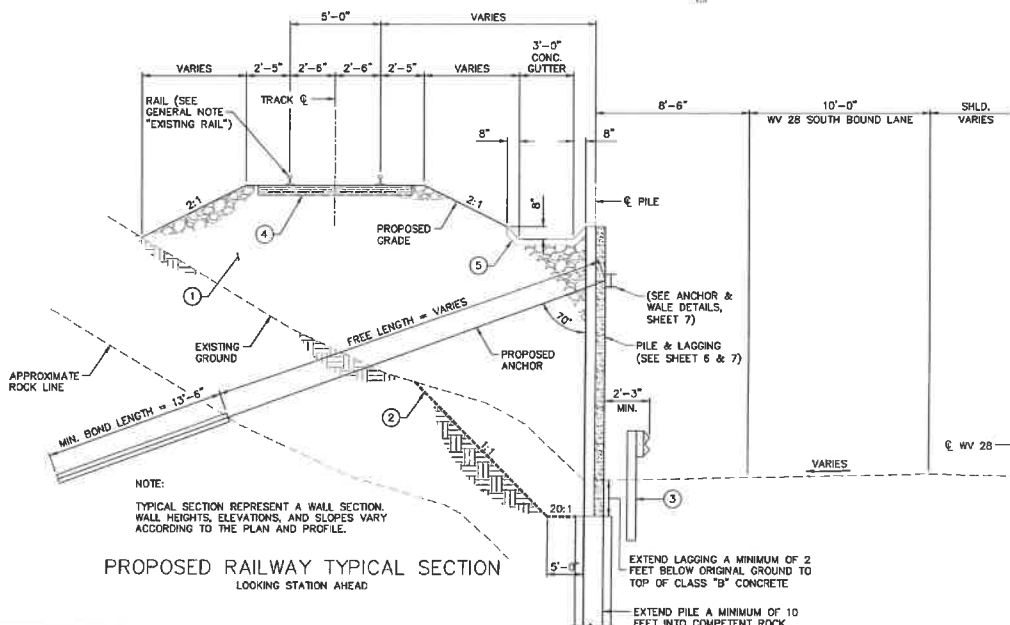
A33. The Wellness Center is a business not a residence. Hours of operation show the business does not remain open after 10pm. Therefore, work may be performed between the hours of 10pm and 6am.

PUBLIC ROADS DIST.	STATE DIST. NO.	STATE PROJECT NO.	FEDERAL PROJECT NO.	FISCAL YEAR	COUNTY	SHEET NO.	TOTAL SHEETS
WV	5	S314-SBY/RR-6.50 (2)	N/A	2022	WV	2	24



STA. TO STA.	PILE SECTION	PILE SPACING	NO. OF PILES	EST. LIN. FT.	DESIGN SECT. MODULUS
300+03.10	300+81.03	HP14X73	4	20	712
301+09.23	301+22.48	HP14X73	3	3	125
301+28.89	301+36.88	HP14X117	4	5	185
TOTAL				28	1022

ESTIMATED PILE LENGTHS				
PILE NO.	PILE TYPE	TOP ELEV. (FT)	BOTTOM ELEV. (FT)	PILE LENGTH (FT)
1	HP14X73	769	742	27
2	HP14X73	769	742	27
3	HP14X73	769	740	29
4	HP14X73	769	740	29
5	HP14X73	769	738	31
6	HP14X73	769	738	31
7	HP14X73	769	736	33
8	HP14X73	771	736	35
9	HP14X73	771	736	35
10	HP14X73	771	736	35
11	HP14X73	773	736	37
12	HP14X73	773	736	37
13	HP14X73	775	736	39
14	HP14X73	775	736	39
15	HP14X73	775	736	39
16	HP14X73	777	736	41
17	HP14X73	777	736	41
18	HP14X73	777	736	41
19	HP14X73	779	736	43
20	HP14X73	779	736	43
21	HP14X73	779	736	43
22	HP14X73	777	736	41
23	HP14X73	777	736	41
24	HP14X117	777	736	41
25	HP14X117	775	736	39
26	HP14X117	773	736	37
27	HP14X117	773	736	37
28	HP14X117	771	736	35



ITEM	DESCRIPTION	UNITS
1	212005-000 SELECT MATERIAL FOR BACKFILLING	CY
2	207034-000 FABRIC FOR SEPARATION	SY
3	607001-001 TYPE 1 GUARDRAIL, CLASS V	LF
4	622017-001 TIMBER RAILROAD CROSSTIE	EA
5	533001-001 CONCRETE GUTTER	SY

NOTE:
THE CONTRACTOR IS RESPONSIBLE FOR REPAIRING DAMAGE TO THE EXISTING ROADWAY AS A RESULT OF CONSTRUCTING THE WALL. ALL COSTS ASSOCIATED WITH ROADWAY REPAIRS WILL BE PAID FOR BY THE CONTRACTOR.
SEE WYDCH STANDARD DETAILS BOOK VOLUME 1 FOR CONCRETE GUTTER DETAILS.

DESIGNED		DATE	CHECKED	DATE	SOUTH BRANCH VALLEY RAILROAD BRIDGE 6.50 OVER WEST VIRGINIA ROUTE 28	THE WEST VIRGINIA DEPARTMENT OF TRANSPORTATION STATE RAIL AUTHORITY	
BY		27 JAN 22	BT	28 JAN 22			
DRAWN		DATE	REVIEWED	DATE	TYPICAL SECTIONS	6.50	
BY		27 JAN 22	BT	28 JAN 22			

J.B. TURMAN ENGINEERING, PLLC
P.O. Box 483
Barboursville, WV 25504
www.jbtengineering.com

REVISION	DATE	BY
1	8/19/22	BT
2		

PUBLIC ROADS DIV.	STATE DIST. NO.	STATE PROJECT NO.	FEDERAL PROJECT NO.	FISCAL YEAR	COUNTY	SHEET NO.	TOTAL SHEETS
WV	5	S314-SBV/RR-6.50 (0)	N/A	2022	HAMPSHIRE	3	24


ABBREVIATIONS:

AASHTO	= AMERICAN ASSOCIATION OF STATE HIGHWAY TRANSPORTATION OFFICIALS
ABUT	= ABUTMENT
AREMA	= AMERICAN RAILWAY ENGINEERING AND MAINTENANCE-OF-WAY ASSOCIATION
B OR BOT	= BOTTOM
BRG	= BEARING
CLR	= CLEAR
CY	= CUBIC YARD
DIA	= DIAMETER
EA	= EACH
EF	= EACH FACE
EL	= ELEVATION
EDW	= EDGE OF WATER
EQ	= EQUAL
FTG	= FOOTING
IN	= INCH
KSI	= KIPS PER SQUARE INCH
LB	= POUND
LF	= LINEAR FOOT
LRFD	= LOAD RESISTANCE FACTOR DESIGN
LS	= LUMP SUM
MAX	= MAXIMUM
MIN	= MINIMUM
OD	= OUTSIDE DIAMETER
OHW	= ORDINARY HIGH WATER
PSI	= POUND PER SQUARE INCH
R	= RADIUS
REQ'D	= REQUIRED
SF	= SQUARE FOOT
SPA	= SPACES
SQ	= SQUARE
STA	= STATION
T	= TOP
T&B	= TOP & BOTTOM
TEMP	= TEMPORARY
TTCP	= TEMPORARY TRAFFIC CONTROL PLAN
TYP	= TYPICAL

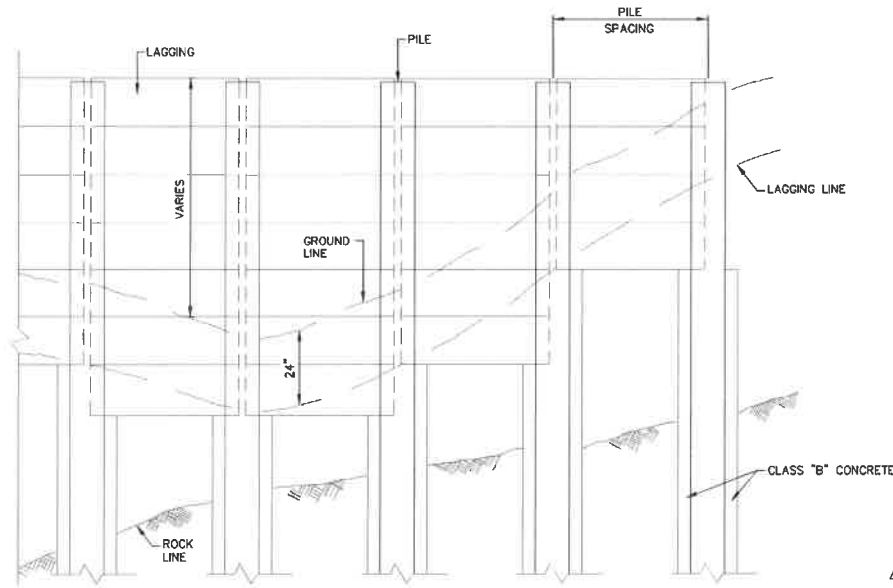
NOTE: ITEM 607006-001, "THREE BEAM GUARDRAIL BRIDGE TRANSITION" IS USED FOR QUANTIFYING THE GUARDRAIL - PIER TRANSITION ON EITHER SIDE OF THE EXISTING BRIDGE PIER.

SUMMARY OF ESTIMATED QUANTITIES

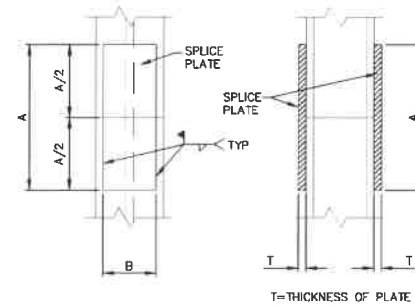
ITEM	ALT	DESCRIPTION	UNIT	QUANTITY
ROADWAY ITEMS				
201001-000		CLEARING AND GRUBBING	LS	1
204001-000		MOBILIZATION	LS	1
207001-001		UNCLASSIFIED EXCAVATION	CY	223
207034-000		FABRIC FOR SEPERATION	SY	225
601037-001		DOWEL HOLE, 1"-9" MINIMUM DEPTH WITH EPOXY ADHESIVE	EA	86
607001-001		TYPE 1 GUARDRAIL, CLASS V	LF	137.5
607006-001		THREE BEAM GUARDRAIL BRIDGE TRANSITION	EA	2
614001-016		HP14X73 STEEL PILE	LF	837
614001-019		HP14X117 STEEL PILE	LF	185
614001-157		W14X145 STEEL PILE	LF	125
614003-001		CONCRETE LAGGING, 8" THICKNESS	SF	1720
633001-001		CONCRETE GUTTER	SY	29
636007-001		ERADICATION OF PAVEMENT MARKING	LF	24
636011-001		TRAFFIC CONTROL DEVICE	UN	4,240
636012-010		PROJECT TRAFFIC CONTROL DEVICE CLEANING	EA	1
636013-001		INDIVIDUAL TRAFFIC CONTROL DEVICE CLEANING	EA	40
636014-001		FLAGGER	HR	200
636017-005		TEMPORARY BARRIER, TL-3, I	LF	360
636022-001		CHANGEABLE MESSAGE SIGN	DAY	254
636023-001		TEMPORARY TRAFFIC SIGNAL, 01	MO	8
636023-002		TEMPORARY TRAFFIC SIGNAL, 02	MO	8
636025-001		WARNING LIGHTS, TYPE B	DAY	1,620
639001-001		CONSTRUCTION LAYOUT STAKE	LS	1
640003-001		BUILDING EQUIPMENT	LS	1
640006-001		SMALL FIELD OFFICE	MO	8
642012-001		SILT FENCE	LF	300
645001-001		PRIMARY REINFORCEMENT, 2400 LB/FT	SY	1170
652001-001		AGRICULTURAL LIMESTONE	TN	1.50
652002-001		FERTILIZER, 10-20-10	TN	0.50
652002-002		FERTILIZER, UREA FORMALDEHYDE	TN	0.15
652003-001		SEED MIXTURE B, C-1, OR C-2	LB	67
652004-001		STRAW OR HAY MULCH	TN	2.00
663005-011		STOP LINE, TYPE V - 24 IN	LF	24
STRUCTURAL ITEMS				
203001-000		DISMANTLING STRUCTURE	LS	1
212005-000		SELECT MATERIAL FOR BACKFILLING	CY	860
212010-003		SHORING	LS	1
601002-001		CLASS B CONCRETE	CY	15
602002-001		EPOXY COATED REINFORCING STEEL BAR	LB	2,595
622017-001		TIMBER RAILROAD CROSSTIE	EA	82
628001-001		DRILLED HOLE, 4.5" DIAMETER	LF	22
628002-001		PRESSURE INJECTED GROUT	CF	32
628007-001		ROCK ANCHORS, INSTALLED	EA	16
628007-002		ROCK ANCHOR PERFORMANCE TEST	EA	2

							J.B. TURMAN ENGINEERING, PLLC P.O. Box 483 Barboursville, WV 25504 www.jbtengineering.com		DESIGNED EH	DATE 27 JAN 22	CHECKED BT	DATE 28 JAN 22	SOUTH BRANCH VALLEY RAILROAD BRIDGE 6.50 OVER WEST VIRGINIA ROUTE 28	THE WEST VIRGINIA DEPARTMENT OF TRANSPORTATION STATE RAIL AUTHORITY	SUMMARY OF QUANTITIES	6.50
1	3	ADDED ITEM, MODIFY QUANTITIES		8/19/22	BT		REVISION NUMBER	SHEET NUMBER	DRAWN EH	DATE 27 JAN 22	REVIEWED BT	DATE 28 JAN 22				

PUBLIC ROADS DIV.	STATE DIST. NO.	STATE PROJECT NO.	FEDERAL PROJECT NO.	FISCAL YEAR	COUNTY	SHEET NO.	TOTAL SHEETS
WV	5	S314-SBV/RR-6.50	N/A	2022	HAMPSHIRE	6	24

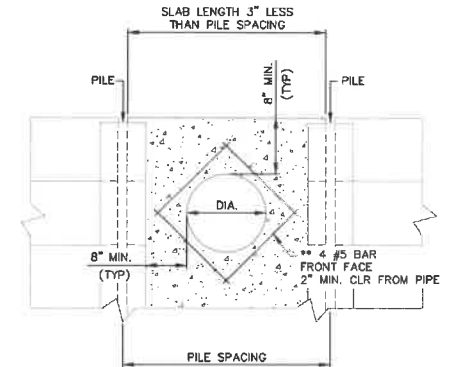


PILING TYPICAL FRONT ELEVATION VIEW



SPLICE DETAIL

PILING SIZE	A (INCHES)	B (INCHES)	T (INCHES)	WELD SIZE
HP14X73	65	13.75	0.525	0.3125
HP14X117	87	14.00	0.575	0.3125
W14X145	130	14.50	1.250	0.3125

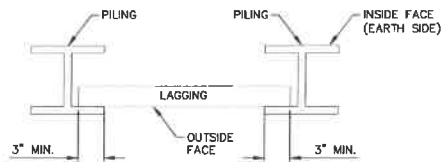


CAST-IN-PLACE
PIPE PENETRATION
DETAIL (IF REQUIRED)

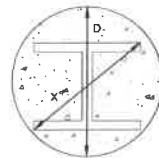
** REBAR ARE IN ADDITION TO REQUIRED #5 BAR AS SHOWN IN THE END VIEW DETAIL. THIS SHEET. MINIMUM THICKNESS TO BE EQUAL TO PRECAST LAGGING.

6" PIPE - 4 #5, 12 INCHES IN LENGTH

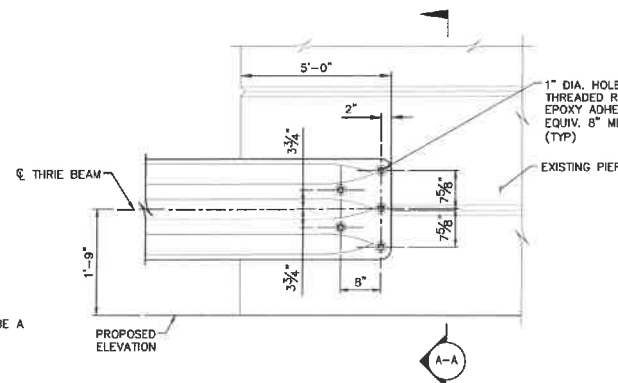
NOTE:
LAGGING SHALL BE IN CONTACT WITH PILING AT ALL FACES. METHOD SHALL BE APPROVED TO HOLD LAGGING IN PLACE DURING BACKFILL OPERATIONS.



CONCRETE LAGGING
DETAIL

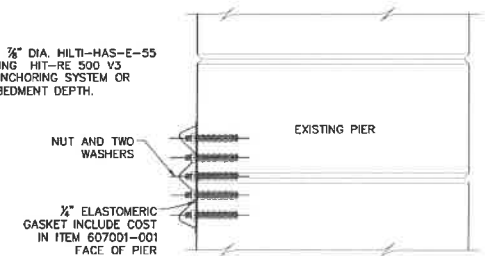


NOTE:
DIAMETER (D) OF DRILLED HOLE SHALL BE A MINIMUM OF 2 INCHES GREATER THAN DIAGONAL (X) MEASUREMENT OF PILING.




THRIE BEAM ATTACHMENT

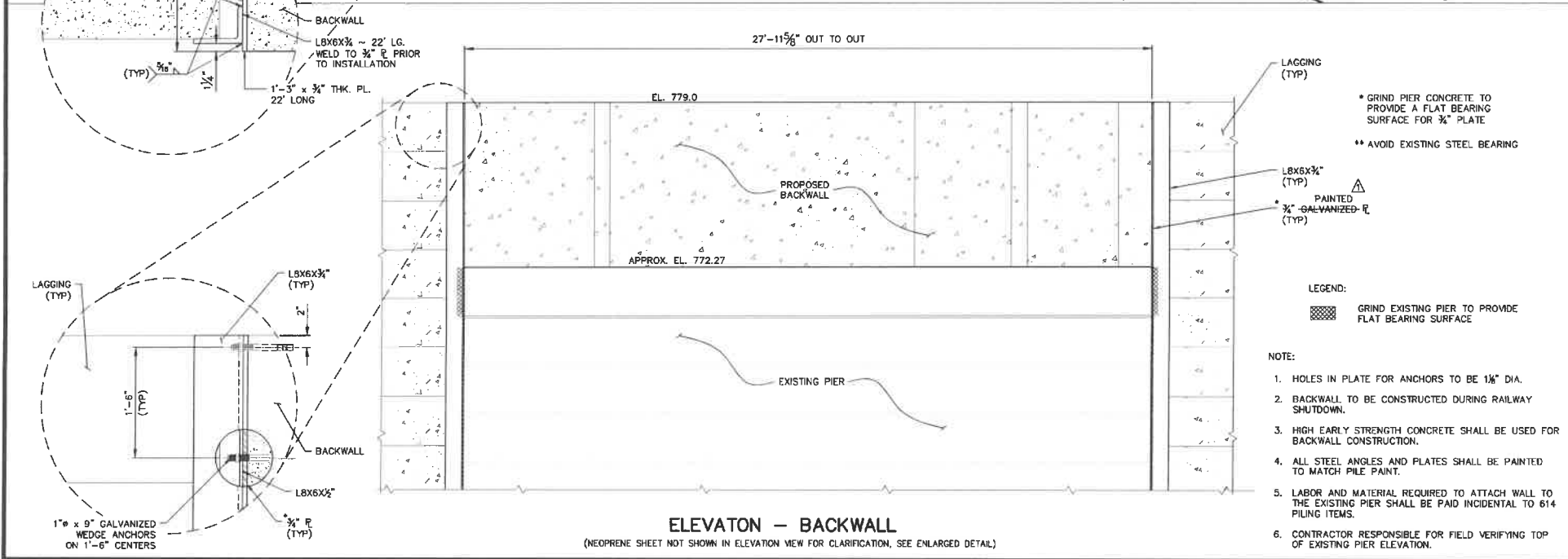
(SOUTH ATTACHMENT SHOWN, NORTH ATTACHMENT SIMILAR)
(SEE WVDOT STANDARD DETAILS FOR MORE INFORMATION)




SECTION A-A

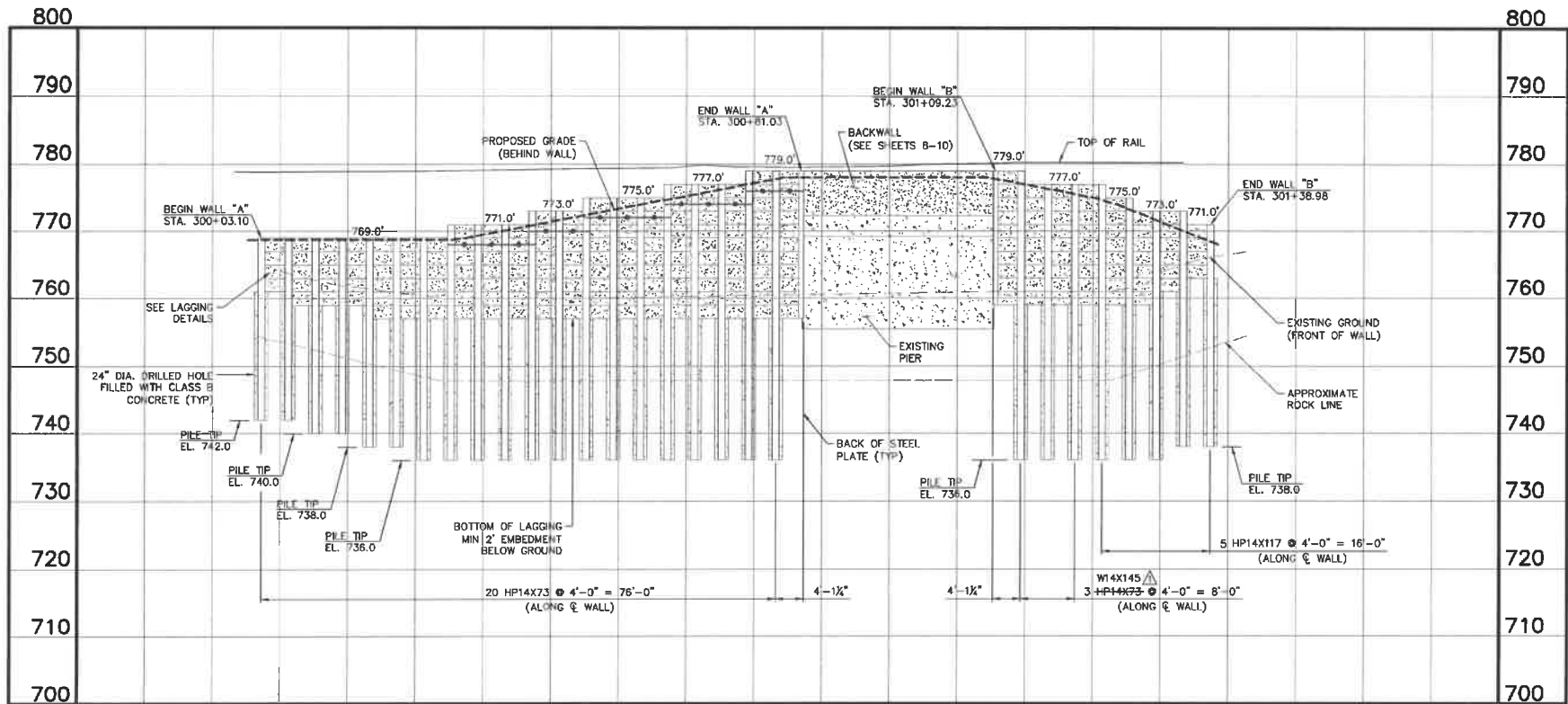
					J.B. TURMAN ENGINEERING, PLLC		DESIGNED	DATE	CHECKED	DATE	SOUTH BRANCH VALLEY RAILROAD BRIDGE 6.50 OVER WEST VIRGINIA ROUTE 28	THE WEST VIRGINIA DEPARTMENT OF TRANSPORTATION STATE RAIL AUTHORITY	SPECIAL DETAILS (SHEET 1 OF 2)	6.50	
					P.O. Box 483		EH	27 JAN 22	BT	28 JAN 22					
					Barboursville, WV 25504										
				www.jbtengineering.com		DRAWN	DATE	REVIEWED	DATE						
1	6	ADDED SPLICE	8/9/22	BT			EH	27 JAN 22	BT	28 JAN 22					
REVISION		DATE		BY		DATE		BY		DATE		BY			

J.B. TURMAN ENGINEERING, PLLC
P.O. Box 483
Barboursville, WV 25504
www.jbtengineering.com



										J.B. TURMAN ENGINEERING, PLLC P.O. Box 483 Barboursville, WV 25504 www.jtengineering.com		DESIGNED EH DATE 27 JAN 22 CHECKED BT DATE 28 JAN 22		SOUTH BRANCH VALLEY RAILROAD BRIDGE 6.50 OVER WEST VIRGINIA ROUTE 28		THE WEST VIRGINIA DEPARTMENT OF TRANSPORTATION STATE RAIL AUTHORITY BACKWALL DETAILS (SHEET 1 OF 3)				
1	8	UPDATED PLATE DIM AND COATING		8/19/22	BT							DRAWN EH DATE 27 JAN 22 REVIEWED BT DATE 28 JAN 22						6.50		
REVISION NUMBER	SHEET NUMBER	REVISION		DATE	BY															

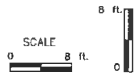
PUBLIC ROADS DIV.	STATE DIST. NO.	STATE PROJECT NO.	FEDERAL PROJECT NO.	FISCAL YEAR	COUNTY	SHEET NO.	TOTAL SHEETS
WV	5	SS14-SBV/RR-6.50-02	N/A	2022	HAMPSHIRE	16	24




PROFILE - WALL
(ALONG WALL C)

LEGEND:

- 8" LAGGING
- HP14X73 WALE
- 1.25" Ø TIE-BACK ANCHOR



					J.B. TURMAN ENGINEERING, PLLC		DESIGNED	DATE	CHECKED	DATE	SOUTH BRANCH VALLEY RAILROAD BRIDGE 6.50 OVER WEST VIRGINIA ROUTE 28	THE WEST VIRGINIA DEPARTMENT OF TRANSPORTATION STATE RAIL AUTHORITY	6.50
1	16	PILE SIZE MOD., REMOVED ANCHORS	8/9/22		BT	DRAWN	DATE	REVIEWED	DATE				
REVISION					P.O. Box 483 Borbersville, WV 25504 www.jbtengineering.com		EH	27 JAN 22	BT	28 JAN 22	PROFILE SHEET		

ADDENDUM ACKNOWLEDGEMENT FORM
SOLICITATION NO.: CRFO DMT2300000001

Instructions: Please acknowledge receipt of all addenda issued with this solicitation by completing this addendum acknowledgment form. Check the box next to each addendum received and sign below. Failure to acknowledge addenda may result in bid disqualification.

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Addendum Numbers Received:

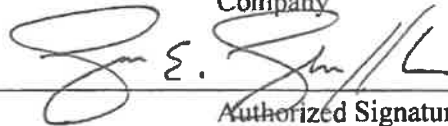
(Check the box next to each addendum received)

- | | |
|--|--|
| <input type="checkbox"/> Addendum No. 1 | <input type="checkbox"/> Addendum No. 6 |
| <input type="checkbox"/> Addendum No. 2 | <input type="checkbox"/> Addendum No. 7 |
| <input type="checkbox"/> Addendum No. 3 | <input type="checkbox"/> Addendum No. 8 |
| <input type="checkbox"/> Addendum No. 4 | <input type="checkbox"/> Addendum No. 9 |
| <input checked="" type="checkbox"/> Addendum No. 5 | <input type="checkbox"/> Addendum No. 10 |

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Gregori Construction Inc.

Company



Authorized Signature

8/22/2022

Date

NOTE: This addendum acknowledgment should be submitted with the bid to expedite document processing.



Department of Administration
Purchasing Division
2019 Washington Street East
Post Office Box 50130
Charleston, WV 25305-0130

State of West Virginia
Centralized Request for Quote

Proc Folder: 1072251			Reason for Modification: Addendum No. 6
Doc Description: Construction-BR 6.5 South End Partial Replacement Timber			
Proc Type: Central Purchase Order			
Date Issued	Solicitation Closes	Solicitation No	Version
2022-08-23	2022-09-01 13:30	CRFQ 0810 DMT2300000001	7

BID RECEIVING LOCATION

BID CLERK
DEPARTMENT OF ADMINISTRATION
PURCHASING DIVISION
2019 WASHINGTON ST E
CHARLESTON WV 25305
US

VENDOR

Vendor Customer Code:

Vendor Name :

Address :

Street :

City :

State :

Country :

Zip :

Principal Contact :

Vendor Contact Phone:

Extension:

FOR INFORMATION CONTACT THE BUYER

David H Pauline
304-558-0067
david.h.pauline@wv.gov

**Vendor
Signature X**

FEIN#

DATE

All offers subject to all terms and conditions contained in this solicitation

ADDITIONAL INFORMATION

Addendum No. 6

To publish inadvertently omitted special provision Section 645_SP_Reinforced Soil Slopes, see attached.

Bid opening remains September 1, 2022 at 1:30 pm est.

No other changes.

INVOICE TOSTATE RAIL AUTHORITY
120 WATER PLANT DRMOOREFIELD
US

WV

SHIP TOSTATE RAIL AUTHORITY
(DBA) SOUTH BRANCH
VALLEY RAILROAD
120 WATER PLANT DRMOOREFIELD
US

WV

Line	Comm Ln Desc	Qty	Unit Issue	Unit Price	Total Price
1	Replacement of Bridge 6.5 - South End	0.00000	EA		

Comm Code**Manufacturer****Specification****Model #**

72141603

Extended Description:

Replacement of BR 6.5 - South End

SCHEDULE OF EVENTS

<u>Line</u>	<u>Event</u>	<u>Event Date</u>
1	Mandatory Pre-Bid Meeting at 10:30 am est.	2022-08-09
2	Vendor Technical Questions Due By 11:00 am est.	2022-08-15

	Document Phase	Document Description	Page 3
DMT2300000001	Draft	Construction-BR 6.5 South End Partial Replacement Timber	

ADDITIONAL TERMS AND CONDITIONS

See attached document(s) for additional Terms and Conditions

SOLICITATION NUMBER: CRFQ DMT2300000001

Addendum Number: 6

The purpose of this addendum is to modify the solicitation identified as CRFQ DMT2300000001 to reflect the change(s) identified and described below.

Applicable Addendum Category:

- ☐ Modify bid opening date and time
- ☐ Modify specifications of product or service being sought
- ☐ To respond to technical questions
- ☐ Attachment of pre-bid sign-in sheet
- ☒ Correction of error
- ☐ Other

Additional Documentation:

1. To publish inadvertently omitted special provision Section 645_SP_Reinforced Soil Slopes, see attached.
2. Bid opening date and time remains September 1, 2022, at 1:30 pm
3. No other changes.

Terms and Conditions:

1. All provisions of the Solicitation and other addenda not modified herein shall remain in full force and effect.
2. Vendor should acknowledge receipt of all addenda issued for this Solicitation by completing an Addendum Acknowledgment, a copy of which is included herewith. Failure to acknowledge addenda may result in bid disqualification. The addendum acknowledgement should be submitted with the bid to expedite document processing.

WEST VIRGINIA DEPARTMENT OF TRANSPORTATION

DIVISION OF HIGHWAYS

SPECIAL PROVISION

FOR

STATE PROJECT NUMBER: _____

FEDERAL PROJECT NUMBER: _____

FOR

SECTION 645

REINFORCED SOIL SLOPES

645.1-DESCRIPTION:

ADD THE FOLLOWING SUBSECTION AFTER THE FIRST PARAGRAPH:

Elastic Inclusion work shall consist of installation of an elasticized Expanded Polystyrene (EPS) and geotextile separation fabric between the back of concrete surfaces and backfill material, in accordance with these specifications and in close conformity with manufacturer's recommendations, the lines shown on the plans or as established by the Engineer.

645.2-MATERIALS:

ADD THE FOLLOWING SUBSECTION:

645.2.3-Elasticized Expanded Polystyrene (EPS) Material:

(a) **Elasticized Expanded Polystyrene (EPS):** EPS shall have a size tolerance of 1/8" for each dimension and conform to the following:

Physical Property	Test Method	Requirements
Compressive strength	ASTM D-1621	5 psi +/- 0.4 psi @10% strain
Water Absorption	ASTM C-272	Max. 3% by volume
Insect Resistance	ASTM D-3345	Resistance to ants, termites, etc.

The EPS shall be elasticized, with a linear-elastic stress-strain behavior up to 10 percent strain and linear proportional stress-strain behavior up to 30 percent strain.

The EPS shall contain no chlorofluorocarbons (CFCs), hydrochlorofluorocarbons (HCFCs), hydrofluorocarbons (HFCs) or formaldehyde. It shall be chemically and biologically inert when in contact with acidic and alkaline soils. It shall be treated to prevent insect attack.

Materials shall withstand temperature variations from -68°F to 140°F without deforming and shall maintain their original dimensions and placement without chipping, spalling, or cracking. Material shall not deteriorate because of contact with sodium chloride, calcium chloride, mild alkalis and acids, or other ice control materials.

The EPS shall contain a flame retardant additive.

- (b) Geotextile Separation Fabric:** A non-woven geotextile separation fabric shall be placed between the EPS and the backfill material. Fabric joints shall have a minimum overlap of 1 foot. Fabric shall extend a minimum of 1 foot beyond the EPS surface and overlap with adjacent concrete surface.

The separation fabric shall have the following properties:

Physical Property	Test Method	Requirements
Grab Strength	ASTM D-4632	Min. 250 lb.
Puncture Strength	ASTM D-4833	Min. 110 lb.
Tear Strength	ASTM D-4533	Min. 90 lb.
Permittivity	ASTM D-4491	Min. 0.5 sec-1
Apparent Opening Size	ASTM D-4751	Max. 0.3 mm

Geotextile separation fabric shall be protected from mud, dirt, dust, sunlight, and debris during transport and storage. Material shall be inert to commonly encountered chemicals; resistant to mildew, rot, insects, and rodents; and biologically and thermally stable. Geotextile separation fabric for subsurface installation shall not be exposed to direct sunlight for more than 24 hours during installation.

Tensile strength requirements are in the machine and cross-machine directions.

- (c) Adhesive:** Adhesive shall be used to bond the EPS to concrete surfaces and the separation fabric to the EPS. It shall be applied in accordance with the EPS manufacturer's recommendations.

- (d) Backfill Material:** Backfill material adjacent to the separation fabric shall be in accordance with 645.2.2.

645.3-FOUNDATION PREPARATION:

ADD THE FOLLOWING SUBSECTION AFTER THE FIRST PARAGRAPH:

Before placement of EPS, concrete surfaces shall be abrasive blast cleaned with a positive contact sandblaster or adhesives manufacturer's recommendation and approved by the Engineer to remove all non-adherent laitance, oil, grease or other foreign or deleterious matter.

645.4-GEOSYNTHETIC INSTALLATION:

ADD THE FOLLOWING SUBSECTION AFTER THE SECOND PARAGRAPH:

The EPS shall be attached to the back of the concrete surfaces with an adhesive compatible with the material.

The concrete surface must be thoroughly dry and clean for adhesive for the application of the EPS. Adhesive shall be applied in accordance with the adhesive manufacturer's recommendation or approval.

The separation fabric may be installed after the EPS has been installed or it may be pre- attached to the EPS. The separation fabric shall cover all exposed surfaces of the EPS.

EPS and separation fabric shall be installed in accordance with the manufacturer's recommendations.

645.7-ACCEPTANCE:

ADD THE FOLLOWING SUBSECTION AFTER THE FIRST PARAGRAPH:

Elasticized EPS shall be tested by an independent commercial laboratory, to verify the material requirements specified herein. The Contractor shall provide written documentation of all tests specified. Documentation shall include style, lot, roll numbers, and actual results of each test. In addition, the name, address, phone number of the testing laboratory, and date of testing shall be provided.

After the EPS has been installed and before the work has been accepted, the Contractor and Inspector shall perform a visual inspection of EPS coverage and adhesion to the concrete surface. Any area deemed unacceptable and questionable as to remaining in position during the placement of the backfill material shall be replaced or repaired, as required.

Unacceptable portion of the EPS shall be removed and the concrete surface shall be prepared and the EPS installed in accordance with this special provision. New EPS in the repair areas shall be visually inspected after curing. The cost of all additional work for repairing or replacing of the defective joint material shall be borne by the Contractor.

645.8-METHOD OF MEASUREMENT:

ADD THE FOLLOWING SUBSECTION AFTER THE SECOND PARAGRAPH:

The units of measurement for the Elasticized EPS material shall be incidental to the area of the geosynthetic soil reinforcing material as shown in the contract plans.

July 29, 2013

645.9-BASIS OF PAYMENT:

ADD THE FOLLOWING SUBSECTION AFTER THE FIRST PARAGRAPH:

The quantity of EPS material placed will be included in the contract unit price for Item 645001-001, Primary Reinforcement, 2400 lb./ft.

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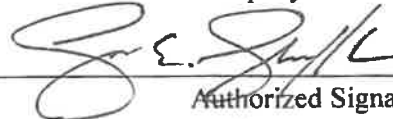
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Gregori Construction Inc.

Company



Authorized Signature

8/23/2022

Date

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CRFQ DMT23*01 - Exhibit A PRICE SHEET

Item	Description	Unit Cost	Unit of Measure	Quantity	Extended Cost
	SBVR Bridge Repair				
13.1.1	South End BR 6.5 - MP 6.5	1,779,693.-	lump sum	1	1,779,693.-
			Total Bid Amount:		1,779,693.-