Bid Package for Lower West Branch Red Clay 25-29 Stream Restoration Project at Parrish Trail

Kennett Township Chester County Pennsylvania

December 5, 2025





Prepared for: Brandywine Red Clay Alliance 1760 Unionville-Wawaset Road Kennett Square, PA 19382



Prepared by: Clauser Environmental, LLC 1915 Leiby Lane Kutztown, PA 19530 (570) 294-0669

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APPENDIX A: Lower West Branch Red Clay 25- 29 Stream Restoration Project Plans

INVITATION TO BID

Dear Contractor: December 5, 2025

Thank you for your interest in bidding on the W. Branch Red Clay Creek 25-29 Stream Restoration Project. Brandywine Red Clay Alliance (BRC) is accepting bids for the Lower West Branch Red Clay 25-29 Stream Restoration Project under this bid package. The project is funded in part with funds from a Pennsylvania Growing Greener Grant and the National Fish and Wildlife Foundation (with US Fish and Wildlife Federal Funds) in Kennett Township.

Contractors must have and include in their packages a demonstrated experience in knowledge and construction of successful [i.e., structural stability for at least three (3) years without degradation due to typical, natural events (2–3-inch rainfall as an example)] stream restoration installation. All contractors are required to address all conditions of the Chester County Conservation District erosion and sediment control measures and PADEP Chapter 102 regulations.

Please note the following:

- SUBMISSION OF A BID CONSTITUTES AGREEMENT BY THE PERSON OR ENTITY SUBMITTING A BID TO COMPLY WITH ALL REQUIREMENTS, TERMS, AND CONDITIONS SET FORTH IN THIS REQUEST FOR BIDS.
- The bid package can be obtained starting on December 5, 2025. You may access and download the bid package on the BRC website: https://brandywineredclay.org/red-streams-blue/
- If you are a person with a disability and wish to attend the bid opening at the office of BRC and require an auxiliary aid, service, or accommodation to observe or participate in the proceedings, please contact BRC at (610) 793-1090 or bwinslow@brandywineredclay.org to discuss how we may accommodate your needs.
- BRC reserves the right to reject any or all bids or parts thereof or waive irregularities, nonconformities, or technicalities in any bid if BRC, in its sole discretion, determines such action to be in the best interest of BRC.

James E. Jordan, Executive Director and C.E.O.



Bid Form Cover Sheet

BIDDER'S COMPANY NAME	
COMPANY ADDRESS	
TELEPHONE NUMBER	
FAX NUMBER	
CONTACT PERSON	
EMAIL	

• ALL BID SUBMISSIONS MUST INCLUDE THE FOLLOWING:

- o Completed bid form (i.e., cover sheet, bid sheet, and signature sheet) in its entirety;
- o Detailed budget in the form of the bidder's choosing;
- O Documented evidence of three successful stream restoration projects that have maintained their construction integrity for a period of three years or more (with dated photos, project location, and references);
- O Document evidence of knowledge and construction of stream restoration projects incorporating fluvial geomorphology (FGM), streambank stabilization methods, riparian buffer installation, and floodplain reconnection.
- Consent of Surety accompanied by a Power of Attorney (attesting to the signer's authority to commit the bonding company to a Performance and Payment Bond for 100% of the project cost if the bid is successful);
- o Affidavit of Non-Discrimination
- o Affidavit of Non-Collusion
- o Affidavit for Special Requirements From Funding Sources

Lower West Branch Red Clay Creek 25-29 Stream Restoration:

ITEM DESCRIPTION	<u>UN</u>	<u>NIT</u>	TOTAL COST	
Mobilization/Demobilization/Site Admin.	<u>L.S.</u>			
Materials/Construction	L.S.			
Pumping/ Erosion & Sediment Control	L.S.			
Debris Removal and Off-site Disposal	L.S.			
W. BRANCH RED CLAY CREEK 25-29 STREAM RESTORATION TOTAL BID:				

Bid Form Signature Sheet

By submitting this Bid Form, I, _	, of
	(Name) (Title)
	such capacity and/or on behalf of
(Company/Firm/Entity)	affirm and agree that:
(Company/Firm/Entity)	arritin and agree that.
	the Bid Package have been examined and the Site has been e consists of the following documents:
 Affidavits of Non-Funding Sources Wage Rates: Pennsylvan This project is funded in parequires Pennsylvania Preventures://www.dliweb.pa.gov If selected as the successfuthe Bid Packages. The bid will remain firm forms 	h Red Clay Creek 25-29 Stream Restoration Project Plans collusion, Non-discrimination, and Special Requirements From the Prevailing wage rates apply. In with funds from the Commonwealth of Pennsylvania and ailing wage rates, see this website for details on these wage rates: PrevWage/Pages/Project.aspx?ID=200104&PageType= Project Project
• The work shall be comple	ed on or before the date indicated in the bid package.
When the bidder is an individual:	
WITNESS:	Signature of Individual
	(SEAL)
	Trading and doing business as:
	Address:

WITNESS:	Name of Partnership:	
	Address:	
	By:Partner	(SEAL)
When the bidder is a corporation:		
ATTEST:	Name of Corporation:	
	Address:	
	By:President/Vice President(C	(SEAL)

W. Branch Red Clay Creek 25-29 Stream Restoration Project Important Dates

- Bid Packages Available: December 5, 2025
- Mandatory Site Showing: December 17, 2025 at 10 am
 - Meet at Herb Pennock Park, 650 W South St, Kennett Square, PA 19348, note will require 0.3 mile walk on trail to work site
- Last Day for Submission of Questions: January 16, 2026 by 5:00 PM, prevailing time
- Submission of bids: January 23, 2026 by 10:00 AM, prevailing time
- **Bid Opening**: January 23, 2026 at 10:05 AM, prevailing time
- Notification of Successful bidder: By February 5, 2026
- Construction:
 - Place One-call and Agency Notifications Before Starting Work
 - Seasonal Restriction: Construction is Prohibited April 1 -September 30
 - o All Construction Completed: December 31, 2026

GENERAL TERMS AND CONDITIONS:

- 1) Submission of a bid constitutes agreement by the person or entity submitting a bid to comply with all requirements, terms, and conditions set forth in this request for bids.
- 2) The terms "Bidder" and "Contractor" are, from time to time, used interchangeably, as the context requires. Brandywine Red Clay Alliance and BRC may be used interchangeably and referred to as one and the same within this document.
- 3) All Bidders must be prepared to present suitable evidence of their financial standing, and to furnish a list of similar work recently completed.
- 4) The Bidder must carefully examine the site where the services are requested, the work proposed, this Bid Package (as defined in the Bid Form), and to compute the quantities of labor or materials and supplies entering therein, and to determine for oneself the difficulties incidental to the prosecution of the work. The presentation of a Bid shall be considered as conclusive evidence of such examination.
- 5) No oral instructions or information to Bidders will be binding. This Bid Package will be considered clear and complete unless written attention is called to any apparent discrepancies or incompleteness thereof, before the opening of bids. Should any written inquiries be received by the Brandywine Red Clay Alliance (BRC), these inquiries will be answered in the form of Addenda to the Bid Package. The last day for submission of questions is January 16, 2026 by 5:00 PM prevailing time, to Aaron S. Clauser, PhD, Clauser Environmental, LLC, at aclauser@verizon.net. Any addenda will be sent via email to the email address provided by the contractor(s) at the mandatory pre-bid meeting on December 17, 2025. These Addenda shall then be considered a part of this Bid Package.
- 6) Submission of a bid will be considered as conclusive evidence of complete examination of the Bid Package.
- 7) Each bid must be enclosed in a sealed envelope, clearly marked on the outside with "Bid on the Lower West Branch Red Clay Creek 25-29 Stream Restoration Project" and received by BRC, at 1760 Unionville-Wawaset Road, West Chester, PA 19382 by 10:00 AM, prevailing time, on January 23, 2026. Bids received after 10:00 AM, prevailing time, will not be opened. Bids may be delivered by mail or hand delivery. Bids received by e-mail or facsimile will not be opened.
- 8) Bid Award: BRC intends to award this bid to the lowest responsible and responsive Bidder with demonstrated knowledge and construction of stream stabilization and restoration in accordance with erosion and sediment control measures of the Chester County Conservation District and PADEP Chapter 102 regulations. The firm, or corporation to whom, or to which the Contract has been awarded shall sign and return one copy of same together with properly executed bonds within ten (10) business days set by BRC after written notice of award of contract. BRC shall then execute this Contract promptly, after approval of same and upon receipt of such Bonds, additional certificates, information or samples as may be required, provided, however, that no award shall be considered binding upon BRC unless and until the

Contract documents are properly executed by both parties. The successful Contractor will be required to execute a contract hereto within ten (10) business days of bid award date. Failure of the Contractor to do so may result in the BRC awarding the contract to the next responsible and responsive Bidder. The BRC reserves the right to exercise this option as BRC deems proper and/or necessary.

- 9) BRC intends to award the contract to the lowest responsive and responsible bidder. BRC reserves the right to reject any or all bids or parts thereof or to waive irregularities, nonconformities, or technicalities in any bid if BRC, in its sole discretion, determines such action to be in the best interest of BRC.
- 10) Contract Term and Extension: The contract term will begin upon receipt of a signed contract by both BRC and Contractor and continue until completion of the work.
- 11) Contract Termination: BRC, at its sole discretion, reserves the right to terminate this Contract or portions thereof at any time, for any reason, with fifteen (15) days written notice of termination.
- 12) Any Bidder who has demonstrated unsatisfactory performance during any agreement with BRC and/or is under enforcement through the PADEP may be considered as unqualified and their bid may be rejected. BRC reserves the right to exercise this option as BRC deems proper and/or necessary in its best interest.
- 13) It is understood that parties making bids accept the terms and conditions expressed and contained in the Bid Package. The failure to comply with any of the conditions may result in the rejection of the bid or the immediate termination of any contract which may have been awarded.
- 14) By submitting a bid, Bidders agree the bid amount will be held firm for a period of sixty (60) days from the date of bid opening. The successful Bidder must execute a Contract with BRC within ten (10) business days after notice of acceptance of the bid.
- 15) This Bid Package is intended to cover the furnishing of all materials and the performance of all work that may be required or necessary for the complete performance of the Contract, and the Contractor will be required to do all things that may be necessary to fully complete the work within the purview of this Bid Package.
- 16) Should the Contractor discover discrepancies in this Invitation to Bid, the matter shall be at once brought to the attention of the BRC office, and the discrepancies corrected by written agreement before proceeding further.
- 17) Items to be furnished shall be new, recycled, first-class, and shall meet with the approval of BRC's designated representative. Contractor shall have competent and efficient workmen, qualified for the type of work to be done, and all workmanship shall be first class. Where there is no detailed description of the material to be furnished or of the work to be done, it is understood that this Bid Package contemplates the use of first-class materials throughout,

placed or used in such a manner as to produce a completed job that is first-class and workmanlike.

- 18) The Contractor shall indemnify, defend, and hold Brandywine Red Clay Alliance, Kennett Township, Borough of Kennett Square, Commonwealth of Pennsylvania, and National Fish and Wildlife Foundation, and each their respective officers, agents, board members, employees, and consultants harmless from and against all suits, actions, and claims of any character, name, and description, and all losses, damages, costs, and expenses (including attorney's fees and costs) and amounts paid in settlement that they or any of them may incur, suffer or pay, or to which they or any of them may be subject, in respect of or on account of any bodily injuries (including death), damage to property or other losses or damages suffered or sustained by anyone (including but not limited to employees of Contractors and other persons) and arising directly or indirectly out of: (i) the work of Contractor and/or the acts or omissions of Contractor, its subcontractors (of any tier), and its and their agents, consultants and employees, including without limitation injuries sustained as a result of inadequate safeguards and security on the site of the work; (ii) losses and claims arising out of defects in materials or workmanship; and/or (iii) breach by Contractor of the contract or any of its obligations under the bidding documents or applicable laws. Such indemnity includes all claims and damages that are or may be covered by workers' compensation, and Contractor expressly waives the benefit of any limits of liability under workers' compensation statutes to the extent that indemnification hereunder is sought for any claim by such employees against any of the parties entitled to indemnity hereunder. Contractor hereby expressly waives any immunity under the Worker's Compensation Act, either as an employer or statutory employer, for any claim brought by BRC. This waiver is intended to comply with the provisions of Section 303(b) of the Worker's Compensation Act, 77 P.S. § 481 (b). So much of the amounts due Contractor under or by virtue of his Contract as shall be considered necessary by BRC may be retained for the use of BRC on account of any pending claim for which indemnity has been or may be asserted hereunder, and if such sums are insufficient, Contractor's surety bond shall be subject to claim on account thereof, in each case until such claim or loss is fully and finally settled or adjudicated. These obligations shall survive the termination of any Contract entered into by the BRC and Contractor for this work.
- 19) The Contractor accepts, insofar as the work covered by any such contract is concerned, the provisions of the Workers' Compensation Act and any reenactments, supplements, or amendments thereto.
- 20) The Contractor shall be responsible for any injury or damage to the property of the landowner or to the property of any public utility company included in this contract by or on account of any act, omission, neglect, or misconduct of the Contractor in the prosecution of the work or in the storage of materials and equipment.
- 21) The Contractor shall take all necessary precautions to properly safeguard the properties under this Contract and avoid injury or damage to buildings, structures, natural features, and persons, etc., and shall, unless otherwise specified, restore such structures, property, materials, etc., at his own cost and expense to a condition equal to that existing before such damage was done, by repairing, rebuilding, or otherwise, as may be required by BRC, or

- shall make good such injury or damage in a satisfactory manner before completion of services, and their final acceptance.
- 22) The Contractor shall direct work personally or be represented by a competent foreman with authority to follow the instructions of the authorized representative of BRC.
- 23) The Contractor shall prosecute the work with sufficient workmen and equipment to insure the completion within the time stipulated.
- 24) Workmanship and materials shall at all times be subject to inspection by BRC's authorized representative. In order to maintain proper control over the work as it progresses and to secure flexibility in adapting means to ends, BRC shall appoint a BRC contact, so designated in writing, who shall decide all questions as may arise as to the acceptability of services rendered and/or materials furnished, and as to the rate of progress of the work, provided, however, that the authority of the BRC contact shall not constitute a waiver of the legal rights of BRC or of the Contractor. The BRC contact shall not be authorized to revoke, alter, enlarge, relax, or release any of the requirements of the specifications.
- 25) Omission or failure on the part of the BRC Contact to disapprove or reject any defective material or work shall not be construed to be acceptance of any defective material or work.
- 26) Bidders shall understand that when materials or supplies have been delivered to the job premises, which materials or supplies do not comply with the Bid Package and have not been approved, upon notification, the Contractor shall immediately remove from the premises any such condemned material or supplies, and replace them with material or supplies in full accordance with this Bid Package at no additional expense to BRC.
- 27) It shall be the sole obligation of the Contractor to determine the liability for and pay all sales, use, excise or similar taxes which may become due pursuant to this project. BRC makes no representation with respect to any such taxes or the Contractor's obligation for the payment of such taxes. Sales tax shall not be included in the Bid.
- 28) Where Bidder proposes a substitution from a specification in the Bid Package, it should be submitted during the question period. All substitutions must be approved by issued addenda. Bidders shall state the brand name and/or catalog number of the items upon which their bid is based. It shall be the Bidder's responsibility, if bidding on items other than those specified, to prove to BRC that said items are equal to or better than those indicated.
- 29) When required herein, samples of equivalent items bid upon shall be provided to BRC for examination simultaneously with the submission of the written bid to BRC or within such time as required herein. Failure to comply herewith may be cause for rejection of bid.
- 30) BRC shall be the sole judge as to whether any equivalent item offered is considered equal.
- 31) It shall be understood and agreed by the Bidder that the quantities/frequencies of events listed in this Bid Package are <u>estimated</u> only. The actual requirements of BRC will determine actual ordered amounts. BRC reserves the right to order more or less than the estimates

- included in the specifications. The Contractor will only deliver goods or provide services based upon receipt of an actual Purchase Order, which will be issued from time to time during the contract period, unless otherwise provided in the Bid Package below.
- 32) BRC shall have the right without invalidating the Contract to order extra work or to make changes by altering, adding to, or deducting from the work as specified in the Contract. Should such alterations or changes in the quantity or character of the work result in increased or in decreased cost to the Contractor, a fair and equitable sum therefore, to be agreed upon in writing in advance by the Contractor. All change orders must be pre-approved by BRC. The difference shall be added or deducted from the bid price, as the case may be. No allowance will be made for anticipated profits on deducted work.
- 33) When a space is provided on the Bid Form for unit prices, Bidders are required to bid a unit price for each service and a total extended price for each service, as well as a total price for all services bid. In addition, Bidders shall show the brand name and/or catalog number of each item upon which bid is based.
- 34) Bidders shall select only one brand or catalog number for each item on which bid is based. "Alternate" offerings contained on the same Bid Form will not be considered.
- 35) An Agreement may be awarded to the most qualified responsible Bidder, meeting the requirements of the Invitation to Bid. Bidder agrees to accept an award for all services bid at the prices quoted.
- 36) Qualifications, conditions, or restrictions, such as "all or none", may result in rejection of bid.
- 37) Where an error is made in computing unit price to total price, the unit price quoted shall govern.
- 38) A bid that is incomplete, illegible, obscure, or conditioned, or which contains additions not called for, or irregularities of any kind, including alterations or erasures, may be rejected. If there is a discrepancy between the bid amount as written, the amount as written in words shall control. A bid which is not accompanied by a consent of surety or is unsigned shall be rejected.
- 39) Successful Bidders, when filling orders, supplying material other than that specified or agreed to as equivalent by BRC, may expect such items to be returned, and the Agreement may be canceled at BRC's option.
- 40) In the event that there is a tie between two or more qualified, responsible Bidders, and the place of business of one is located in the state of Pennsylvania and the other(s) is (are) located outside of Pennsylvania, BRC may in its discretion opt to award the bid to the Pennsylvania Bidder, all other relevant factors being equal.
- 41) Responsibility under the Immigration Control and Reform Act of 1986 for verification of identity and employment eligibility in connection with Bidder's own agents/servants, workers, and employees, is assumed and continues to be assumed by the Bidder.

- 42) Non-Discrimination: The Contractor agrees to comply with all applicable State and Federal laws, regulations, procedures and orders which protect the civil rights of employees, job applicants, and recipients of service. See and sign Affidavit for Non-discrimination for details.
- 43) The Contractor expressly agrees to comply with Title VI of the Civil Rights Act of 1964, as amended, the Americans with Disabilities Act of 1990, and all other applicable federal, state, and/or local laws, ordinances, rules, regulations, and orders prohibiting discrimination in hiring or employment opportunities.

During the term of this contract, the Contractor agrees as follows:

- a. Pursuant to federal regulations promulgated under the authority of the *Americans with Disabilities Act*, 28 C.F.R. § 35.101 et seq., the Contractor understands and agrees that no individual with a disability shall, on the basis of the disability, be excluded from participation in this contract or from activities provided for under this contract. As a condition of accepting and executing this contract, the Contractor agrees to comply with the "*General Prohibitions Against Discrimination*," 28 C.F.R. § 35.130, and all other regulations promulgated under Title II of the *Americans with Disabilities Act* which are applicable to the benefits, services, programs, and activities provided by the Commonwealth through contracts with outside contractors.
- b. The Contractor shall be responsible for and agrees to indemnify and hold harmless the Commonwealth for all losses, damages, expenses, claims, demands, suits, and actions brought by any party against the Commonwealth as a result of the Contractor's failure to comply with the provisions of the subparagraph above.
- 44) In the employment of persons for the performance of public work, no contractor or subcontractor, nor any person acting on behalf of such contractor or subcontractor, shall by reason of race, color, religious creed, ancestry, age, national origin, sex, or disability discriminate against any individual who is qualified and available to perform the work to which the employment relates.
- 45) The Contractor shall observe and comply with all laws, ordinances, and regulations in any way affecting the equipment or materials used, those engaged on the work or the conduct of the work.
- 46) The Contractor shall procure and pay for any permits and licenses required, unless otherwise stated herein, and shall give all notices necessary or incident to the due and lawful prosecution of work.
- 47) This Contract shall be governed by the laws of the Commonwealth of Pennsylvania. The Bidder (Contractor) has the responsibility and obligation to become aware of and comply with all applicable statutes, rules, and regulations that affect this transaction in any regard.
- 48) The Contractor, its employees, agents, servants, and any subcontractors of Contractor are independent contractors under this Contract and are not deemed to be employees, agents, or servants of BRC in any manner or for any purpose whatsoever.

- 49) BRC may, by written notification to the Contractor, terminate in whole or any part of this Contract if BRC determines that the Contractor has failed to perform the services or to provide the materials or supplies required by this Bid Package in the manner and quality as specified herein.
- 50) If the Contractor fails or refuses to begin work within the time required in this Bid Package or to perform the work with sufficient workmen, equipment, or materials to insure the completion of said work in accordance with the terms of the Contract, or shall discontinue the prosecution of the work without the approval of BRC or shall neglect or refuse to perform anew such work as has been rejected as defective and unsuitable, or shall become insolvent or be declared bankrupt, or for any cause shall not carry on the work in an acceptable manner and conformity with contract, BRC after ten (10) days' written notice served personally on the Contractor or mailed to him at the address given on his bid, and on his failure to remedy the condition or conditions complained of, shall have the right to terminate the Contract without process or action at law, and to turn over to the surety for completion or, at their option, to enter upon and take possession of the work, using the materials and equipment of the Contractor assembled for the project, and to complete the performance of the Contract in accordance with the terms thereof, with or without advertising or re-letting, and should the total cost of the work contracted for be in excess of the original bid price, the Contractor and his surety shall be held responsible for such excess cost.
- 51) Neither by the taking over of the work by BRC, nor by the termination of the Contract shall BRC forfeit the right to recover damages from the Contractor or his surety for failure to complete this Contract.
- 52) Conflicts of interest may arise when any employee, officer, director, volunteer or agent of BRC has a financial, family or any other beneficial interest in the Bidder or Contractor selected or considered for an award. Bidder or Contractor, as the case may be, certifies that to the best of their knowledge, no BRC official or employee has a vested interest, financial or otherwise, in this Contractor. Bidder or Contractor agrees to comply in all respects with the Public Official and Employee Ethics Act (65 P.S. § 1101 et seq.). Bidder or Contractor will inform BRC in writing immediately if any potential conflict of interest arises during the course of bidding or during the performance of any agreement entered into with BRC. Conflict of interest may constitute grounds for disqualification of Bidder or termination of any Contract with the Contractor following notification by BRC to Bidder or Contractor where same is not corrected by Bidder or Contractor within the time period established by BRC in such notice.
- 53) The Contractor shall pay for all royalties, claims, and fees for any patented invention, article, or arrangements, which may be used in the work under Contract.
- 54) The Contractor shall accept the compensation as provided in the Contract in full payment for furnishing all bonds, materials, labor, tools, equipment, transportation, etc., and for performing all work under the Contract, and for all loss or damage arising from the work, until its final acceptance by BRC.

55) No extra or additional work will be allowed or paid for unless ordered in writing by BRC before such work is commenced.

- 56) Contractor agrees to maintain records relating to the performance of the work and compliance with prevailing wage under this Contract as may be required by the funders. If prevailing wage rates are required, contractor shall send verification of prevailing wage rates and timesheets for each time period as they occur. Such records shall be open for inspection to these entities and BRC, and to such agents of BRC as are designated during reasonable business hours.
- 57) BRC reserves the right to let additional contractors work at the site. The Contractor shall coordinate the execution of his work with other contractors, and should the Contractor cause damage to any other contractor on the work the Contractor agrees, upon due notice, to settle with such contractor by agreement, or otherwise at BRC's option.
- 58) Contractor agrees to replace any individual on its project team upon reasonable request of BRC Contact. BRC has the sole right to accept or reject any assignment by the Contractor of individuals to perform services under this Contract.
- 59) Subcontracted Work: In the event that a Contractor subcontracts any part of this project, Contractor must submit this information with proof of any required licensing and/or certifications in writing to BRC for approval prior to entering into the subcontract. BRC reserves the sole right to accept or not accept any subcontractor, as it deems proper and/or necessary. Contractor shall retain total responsibility for the performance of all work performed under this contract.
- 60) Safety: Safety of persons maintaining and using the property is paramount to Contractor's maintenance operations. The Contractor shall be responsible for providing all necessary safety equipment, procedures, and employee training and instruction in the use of the safety equipment. Safe operation includes, for example, halting the equipment operation to allow safe passage of nearby persons or vehicles, safe operation of equipment on steep slopes, etc.
- 61) The Contractor shall be in compliance with all Occupational Safety and Health Administration (O.S.H.A.) regulations and all safety related state and federal regulations regarding the use of any of the equipment that is used on the work site. Any employee observed operating equipment in an unsafe manner or failing to use necessary safety equipment as determined by BRC will be requested to leave the property. Contractor shall fulfill such requests and immediately vacate the property.
- 62) Limits of Work: The physical Contract Limits of Work are to be considered the property defined in the Scope of Work and Technical Specifications.
- 63) Schedule: Upon receipt of Notice to Proceed, Contractor shall schedule a preconstruction meeting with designated BRC staff and contact to discuss the procedures for all work activities, acceptance, and payment. Contractor shall schedule with the BRC Watershed Conservation Director regular inspection meetings throughout the life of the project. These meetings are to review the work completed and discuss when and what work is scheduled to

- take place for the coming period and obtain any necessary approvals. All meetings must be scheduled during the hours of 8:00 AM and 4:00 PM (Monday through Friday, except federal holidays).
- 64) For the purposes of this work, business hours are defined as 8:00 AM to 4:00 PM on Monday through Friday. Contractor is free to work during the non-business hours, EXCEPT for Sundays and major federal holidays, if approval is obtained from the BRC Contact and landowner. In general, deliveries shall be at such times as may be fixed by BRC and shall not be made except upon definite instructions by BRC.
- 65) Payments: Upon notification of project completion, BRC has five (5) business days to certify construction meets contract standards and design specifications. Contractor shall invoice for the approved completed work. Upon receipt and approval, BRC has ten (10) business days to administer and process the invoice for payment to contractor.

SPECIAL CONDITIONS:

- a. Contractors must have and include in the package a documented knowledge and construction of stream restoration projects incorporating fluvial geomorphology (FGM), streambank stabilization methods, riparian buffer installation, floodplain creation, wetland creation, stormwater basin retrofits and naturalization of the same. Contractors must be familiar with the recommendations of the Pennsylvania Stream Team. All contractors are required to address and include all conditions and requirements of the Pennsylvania Department of Environmental Protection (PADEP) and United States Army Corps of Engineers (USACE) stream encroachment approvals, erosion and sediment control measures of the Chester County Conservation District, and PADEP Chapter 102 regulations. Contractors must also provide evidence of three successful stream stabilization and/or restoration projects that have maintained their construction integrity for a period of three years or more (including dated photos, locations, and references).
- b. All Bidders must adhere to the grant requirements of the PA DEP Growing Greener Grant.
- c. All construction must occur in accordance with the dates outlined on the important dates page outlined in this bid package.

d. Wage Rates: Pennsylvania Prevailing wage rates apply.

- a. This project is funded in part with funds from the Commonwealth of Pennsylvania and requires Pennsylvania Prevailing wage rates, see this website for details on these wage rates:
 - https://www.dliweb.pa.gov/PrevWage/Pages/Project.aspx?ID=200104&PageType=
- e. Consent of Surety: Consent of Surety must be submitted by all Bidders with their bid packages. "Consent of Surety" shall consist of a statement from the Bidder's bonding company certifying if the Bidder is awarded the bid the bonding company will provide a Performance Bond and Payment Bond for Labor and Materials on the form that is provided herein in the amount of one hundred percent (100%) of the total bid award for each bond, or if the bonding company is willing to combine bonds, then one (1) Performance and Payment Bond in the amount of one hundred percent (100%) of the total bid award. The Consent of Surety must be accompanied by a Power of Attorney attesting to the signer's authority to commit the bonding company. The Consent of Surety must not contain any conditions that contradict the terms and conditions of these Specifications and/or the Performance Bond or Payment Bond.
- f. Performance Bond and Payment Bond: The selected Contractor will be required to submit a Performance and Payment Bond in the amount of one hundred percent (100%) of the contract award amount within ten (10) business days of the award date, the condition of which shall be the full and complete execution and performance of each and all of the terms contained in the Contract and Bid Package. The Bonds shall be executed by the same surety, and may be combined, if permitted by the surety. If Bonds are not combined, then two separate Performance and Payment Bonds, each in the amount of one

hundred percent (100%) of the contract award, will be required. The Performance and Payment Bond(s) may cover the contract award amount for a single year, in which case they shall be renewed or extended and resubmitted for each year of the Contract in the amount of one hundred percent (100%) until the completion of the Contract.

- g. The condition of the Payment Bond shall be the prompt payment for all materials and labor supplied or performed in the prosecution of the work. It shall be a condition of said bond that persons furnishing labor and materials in and for the prosecution of said work shall have the right, according to law, to sue in an action of assumpsit, in the name of the oblige, for his or their use upon said bond, for such sum or sums as may be justly due.
- h. Insurance: Contractor shall purchase and maintain such policy or policies of insurance as will protect from claims, as hereinafter set forth, which may arise out of or result from Contractor's operation under this Contract, whether such operations be by himself or by any subcontractor, or by anyone directly or indirectly employed by any of them, or by anyone for whose acts any of them may be liable. Such insurance shall name the agents, elected officials, employees, and officers of BRC, Kennett and New Garden Townships, National Fish and Wildlife Foundation, Commonwealth of Pennsylvania and the project landowner(s) (names and addresses to be provided to chosen bidder with notice of award). Certificates of Insurance, made out to "Brandywine Red Clay Alliance" and the project landowners must be provided to BRC prior to execution of the Contract by the BRC. The kinds of claims to be insured against are as follows:
 - Claims for damages because of bodily injury, occupational disease, sickness, disease, or death of Contractor's employees.
 - Claims for damages insured by usual personal injury liability coverage, which are sustained by any person as a result of any injury directly or indirectly related to the employment of such person by Contractor or by any other person.
 - Claims for damages other than to the work itself because of injury to and destruction of tangible property, including loss of use resulting therefrom.
 - Claims for damages because of bodily injury or death of any persons or property damage arising out of the ownership, maintenance, or use of any motor vehicle.
 - Claims for false arrest or imprisonment, assault and battery, errors and omissions, invasion of civil rights, and like claims.
 - The insurance required by Special Condition i), first paragraph above, shall be for not less than the limits as set forth hereafter or as may be required by law, whichever is greater.
- i. Commercial General Liability and Commercial Automobile Liability shall include:
 - Bodily Injury (including owned and non-owned vehicles); Personal Injury; Property Damage Liability (including owned and non-owned vehicles); and Contractual Liability with limit not less than \$1,000,000 per occurrence.
 - Commercial General Liability insurance shall include coverage for products/completed operations coverage with limit not less than \$1,000,000 per occurrence.
 - Coverage is to be carried on an occurrence basis and limits are to apply to a "per project" basis.

- j. The Contractor must carry Employer's Liability insurance coverage and Worker's Compensation coverage as required by statute. The Contractor shall furnish suitable evidence that he has insured his liability under the Workmen's Compensation Act and any supplements or amendments thereto, or file with BRC an acceptable certificate of exemption therefrom.
- k. Original Certificates of Insurance for Worker's Compensation and Liability Insurance Coverage must be submitted within ten (10) business days of bid award date or with the signed Contract, whichever is earlier, and prior to commencing any work on this project. The Contract will not be executed by BRC in the absence of Certificate(s) of Insurance. Special coverage may be required in addition to any of the foregoing as may be specifically set forth in any special conditions of the contract. Policies shall be effective commencing by the first day of work and remain in effect during the life of the project.
- I. The Contractor must submit the certificates to BRC, prior to commencement of the Contract and annually thereafter, or otherwise as insurance coverage is changed. Insurance certificates shall provide for thirty days' notice to BRC and the project landowner(s) of expiration of insurance. The insurance coverage required under this paragraph must be maintained by the Contractor throughout the terms of this Contract and any extensions, if applicable. If the Contractor's insurance expires during the term, BRC may at its sole option withhold payments and/or stop the work until insurance coverage is renewed.
- m. BRC Representation: The Watershed Conservation Director of the BRC and the designated BRC Contact(s) will represent BRC for this project.
- n. Cut soils occurring on site will be the sole responsibility of the Contractor including but not limited to removal and proper transportation to the site location shown on the project drawings.
- o. Contractor must comply with any and all Pennsylvania Department of Transportation permits and requirements concerning road access.
- p. Notification of the start of construction must be given to the landowner(s). The BRC representative will do this when notified by the Contractor.
- q. Any change order to the Scope of Work or design, construction, and/or construction materials must be approved by the BRC Contact.
- r. Any and all administrative questions on the project should be directed to the BRC Contact. Any and all erosion, sedimentation, sequence/scope of work, plan, PADEP Chapter 102, and similar site questions should be directed to the designated BRC Representative.
- s. BRC reserves the right to extend or shorten the work area based on funding availability.
- t. The Contractor is to give an itemized budget in the format of their choosing.

- u. The contractor shall install trail closed signs (in English and in Spanish) and orange construction fencing at the upstream and downstream ends of the Parrish Trail during construction activities.
- v. BRC has approvals from the U.S. Army Corps of Engineers and Chester County Conservation District in hand. The PA Department of Environmental Protection has not yet issued the EA Waiver approval (although it is BRC's understanding that all review comments have been addressed and issuance of their approval is imminent). Work may not begin on the project until the DEP approval is in hand.

AFFIDAVIT OF NON-DISCRIMINATION

I,		_, being duly sworn, depo	se and say that I res	ide at
	Name)		•	
		, and that I am the		of
(Address)			(Title)	
	. In such capaci	ity and/or and on behalf of	f	
(Company)			(Company)	

I hereby affirm and agree as follows:

As required by the Pennsylvania Department of Environmental Protection Growing Greener Grant, the Contractor agrees:

- 1) In the hiring of any employee(s) for the manufacture of supplies, performance of work, or any other activity required under the grant agreement or any subgrant agreement, contract, or subcontract, the Grantee, a subgrantee, a contractor, a subcontractor, or any person acting on behalf of the Grantee shall not discriminate by reason of race, gender, creed, color, sexual orientation, gender identity or expression, or in violation of the *Pennsylvania Human Relations Act* (PHRA) and applicable federal laws, against any citizen of this commonwealth who is qualified and available to perform the work to which the employment relates.
- 2) The Grantee, any subgrantee, contractor or any subcontractor or any person on their behalf shall not in any manner discriminate by reason of race, gender, creed, color, sexual orientation, gender identity or expression, or in violation of the PHRA and applicable federal laws, against or intimidate any of its employees.
- 3) Neither the Grantee nor any subgrantee nor any contractor nor any subcontractor nor any person on their behalf shall in any manner discriminate by reason of race, gender, creed, color, sexual orientation, gender identity or expression, or in violation of the PHRA and applicable federal laws, in the provision of services under the grant agreement, subgrant agreement, contract or subcontract.
- 4) Neither the Grantee nor any subgrantee nor any contractor nor any subcontractor nor any person on their behalf shall in any manner discriminate against employees by reason of participation in or decision to refrain from participating in labor activities protected under the *Public Employee Relations Act*, *Pennsylvania Labor Relations Act* or *National Labor Relations Act*, as applicable and to the extent determined by entities charged with such Acts' enforcement, and shall comply with any provision of law establishing organizations as employees' exclusive representatives.

(AFFIDAVIT OF NON-DISCRIMINATION continued)

- 5) The Grantee, and subgrantee, contractor or any subcontractor shall establish and maintain a written nondiscrimination and sexual harassment policy and shall inform their employees in writing of the policy. The policy must contain a provision that sexual harassment will not be tolerated and employees who practice it will be disciplined. Posting this Nondiscrimination/Sexual Harassment Clause conspicuously in easily-accessible and well-lighted places customarily frequented by employees and at or near where the grant services are performed shall satisfy this requirement for employees with an established work site.
- 6) The Grantee, any subgrantee, contractor or any subcontractor shall not discriminate by reason of race, gender, creed, color, sexual orientation, gender identity or expression, or in violation of the PHRA and applicable federal laws, against any subgrantee, contractor, subcontractor or supplier who is qualified to perform the work to which the grant relates.
- 7) The Grantee and each subgrantee, contractor and subcontractor represents that it is presently in compliance with and will maintain compliance with all applicable federal, state, and local laws and regulations relating to nondiscrimination and sexual harassment. The Grantee and each subgrantee, contractor and subcontractor further represents that it has filed a Standard Form 100 Employer Information Report ("EEO-1") with the U.S. Equal Employment Opportunity Commission ("EEOC") and shall file an annual EEO-1 report with the EEOC as required for employers' subject to *Title VII of the Civil Rights Act of 1964*, as amended, that have 100 or more employees and employers that have federal government contracts or first-tier subcontracts and have 50 or more employees. The Grantee, any subgrantee, any contractor or any subcontractor shall, upon request and within the time periods requested by the Commonwealth, furnish all necessary employment documents and records, including EEO-1 reports, and permit access to their books, records, and accounts by granting agency and the Bureau of Diversity, Inclusion and Small Business Opportunities for the purpose of ascertaining compliance with the provisions of this Nondiscrimination/Sexual Harassment Clause.
- 8) The Grantee, any subgrantee, contractor or any subcontractor shall include the provisions of this Nondiscrimination/Sexual Harassment Clause in every subgrant agreement, contract or subcontract so that those provisions applicable to subgrantees, contractors or subcontractors will be binding upon each subgrantee, contractor or subcontractor.
- 9) The Grantee's and each subgrantee's, contractor's and subcontractor's obligations pursuant to these provisions are ongoing from and after the effective date of the grant agreement through the termination date thereof. Accordingly, the Grantee and each subgrantee, contractor and subcontractor shall have an obligation to inform the commonwealth if, at any time during the term of the grant agreement, it becomes aware of any actions or occurrences that would result in violation of these provisions.

(AFFIDAVIT OF NON-DISCRIMINATION continued)

10) The Commonwealth may cancel or terminate the grant agreement and all money due or to become due under the grant agreement may be forfeited for a violation of the terms and conditions of this Nondiscrimination/Sexual Harassment Clause. In addition, the granting agency may proceed with debarment or suspension and may place the Grantee, subgrantee, contractor, or subcontractor in the Contractor Responsibility File.

	(Signature)
Sworn and subscribed to before me this, 20	(Name of Company)
My Commission Expires:	(Notary Public in and for County)

AFFIDAVIT OF NON-COLLUSION

I state	that I am [Title]
of	[Company],
and it	nat I am authorized to make this affidavit on behalf of [Company], s owners, directors, and officers. I am the person responsible in my firm for the price(s) and nount of this bid. I state that:
1.	The price(s) and amount of this bid have been arrived at independently and without consultation, communication or agreement with any other contractor, bidder or potential bidder.
2.	Neither the price(s) nor the amount of this bid, and neither the approximate price(s) nor approximate amount of this bid, have been disclosed to any other firm or person who is a bidder or potential bidder, and neither the price(s) nor the amount of the bid will not be disclosed before bid opening.
3.	No attempt has been made or will be made to induce any firm or person to refrain from bidding on this contract, or to submit a bid higher than this bid, or to submit any intentionally high or noncompetitive bid or other form of complementary bid.
4.	The bid of my firm is made in good faith and not pursuant to any agreement or discussion with, or inducement from, any firm or person to submit a complementary or other noncompetitive bid.
5.	[Company], its affiliates, subsidiaries, officers, directors, and employees are not currently under investigation by any governmental agency and have not in the last three years been convicted or found liable for any act prohibited by State or Federal law in any jurisdiction, involving conspiracy or collusion with respect to bidding on any public contract, except as follows:

Any affidavits stating that the bidder or any of its affiliates, subsidiaries, officers, directors, or employees have been convicted or found liable for any act, prohibited by State or Federal law in any jurisdiction, involving conspiracy or collusion with respect to bidding on any public contract within the last three years, does not prohibit the Brandywine Red Clay Alliance ("BRC") from accepting a bid from or awarding a contract to the bidder, but may be a ground for consideration on the question whether the BRC should decline to award a contract to that bidder on the basis of lack of responsibility.

I state that acknowledges that the above representations are material	[Company] understands and
BRC in awarding the contracts for which this bid is subm	itted. My firm and I understand that any
misstatement in this affidavit is and shall be treated as fr true facts relating to the submission of bids for this contra	
NAME OF FIRM	
By:	
Title:	
Date:	
SWORN TO AND SUBSCRIBED	
DAY OF, 20	
Notary Public	
My commission expires	

AFFADAVIT FOR SPECIAL REQUIREMENTS FROM FUNDING SOURCES

Additional Requirements related to grant funding from: the National Fish and Wildlife Foundation (NFWF) with federal funding from the U.S. Fish and Wildlife Service.

All activities authorized by this Grant funding shall be performed in accordance with applicable statutes, regulations, conditions, directives, guidelines and such additional requirements as listed below. The Contractor acknowledges that this bid is subject to all requirements set forth herein and further agrees that it and all sub-contractors will comply with future requirements determined by the Grantor as necessary.

(excerpt from National Fish and Wildlife Foundation (NFWF) 83404 Grant Agreement with Brandywine Red Clay Alliance, full agreement is available upon request)

3.1. Compliance with Laws.

3.1.1. In General

By execution of this Agreement and through its continued performance hereunder, the NFWF Subrecipient represents, certifies and agrees that it is and shall continue to conduct all such activities in compliance with all applicable federal, state, and local laws, regulations, and ordinances and to secure all appropriate necessary public or private permits and consents. The terms of this provision will survive termination of this Agreement and must be flowed down to any and all contractors, subcontractors or subrecipients entered into by NFWF Subrecipient inthe performance of this Agreement.

3.1.2. Compliance with Anti-Corruption Laws.

The NFWF Subrecipient represents, certifies and agrees to ensure that no payments have been or will be made or received by the NFWF Subrecipient in connection with this Agreement in violation of the U.S. Foreign Corrupt Practices Act of 1977, as amended (15

U.S.C. §dd-1 *et seq.*), or any other applicable anti-corruption laws or regulations (e.g., UK Bribery Act 2010) in the countries in which the NFWF Subrecipient performs under this Agreement.

3.3.3. Compliance with Anti-Terrorism Laws.

The NFWF Subrecipient represents, certifies and agrees not to provide material support or resources directly or indirectly to, or knowingly permit any funds provided by NFWF pursuant to this Agreement or Matching Contributions to be transferred to, any individual, corporation or other entity that the NFWF Subrecipient knows, or has reason to know, commits, attempts to commit, advocates, facilitates, or participates in any terrorist activity, or has committed, attempted to commit, advocated, facilitated or participated in any terrorist activity, including, but not limited to, the individuals and entities (1) on the master list of Specially Designated Nationals and Blocked Persons maintained by the U.S. Department of Treasury's Office of Foreign Assets Control, which list is available at www.treas .gov/offices/enforcement/ofac: (2) on the consolidated list of individuals and entities maintained by the "1 267 Committee" of the United Nations Security Council at http://www.un.org/sc/committees/1267/aq_sanctions_list.shtml; (3) on the consolidated list maintained by the U.S. Department of Commerce at http://export.gov/ecr/eg_main_0231 48.asp, or (4) on such other list as NFWF may identify from time to time.

3.3.4. Compliance with Additional Laws and Restrictions.

The NFWF Subrecipient represents, certifies and agrees to ensure that its activities under this Agreement comply with all applicable U.S. laws, regulations and executive orders regarding money laundering, terrorist financing, U.S. sanctions laws, U.S. export controls, restrictive trade practices, boycotts, and all other economic sanctions or trade restrictions promulgated from time to time by means of statute, executive order, regulation or as administered by the U.S. Department of State, the Office of Foreign Assets Control, U.S. Department of the Treasury, or the Bureau of Industry and Security, U.S. Department of Commerce.

3.2. Subrecipient Debarment and Suspensions.

By and through NFWF Subrecipient's execution of this Agreement, NFWF Subrecipient warrants and represents its initial and continued compliance that it is not listed on the General Services Administration's, government-wide System for Award Management Exclusions (SAM Exclusions), in accordance with the OMB guidelines at 2 C.F.R Part 180 that implement E.O.s 12549 (3 C.F.R., 1986 Comp., p. 189) and 12689 (3 C.F.R., 1989 Comp., p. 235), "Debarment and Suspension." The NFWF Subrecipient further provides that it shall not enter into any subaward, contract or other agreement using funds provided by NFWF with any party listed on the SAM Exclusions in accordance with Executive Orders 12549 and 12689. The SAM Exclusions can be found at https://www.sam.gov/portal/public/SAM/.

3.3. Conflicts of Interest.

By execution of this Agreement, NFWF Subrecipient acknowledges that it is prohibited from using any Project funds received under this Agreement in a manner which may give rise to an apparent or actual conflict of interest, including organizational conflicts of interest, on the part of the NFWF Subrecipient. Such a conflict of interest would arise when the employee, officer, or agent, any member of his or her immediate family, his or her partner, or an organization which employs or is about to employ any of the parties indicated herein, has a financial or other interest in or a tangible personal benefit from a firm considered for a contract. The officers, employees, and agents of NFWF Subrecipient may neither solicit nor accept gratuities, favors, or anything of monetary value from contractors or parties to subcontracts. An organizational conflict of interest is defined as a relationship that because of relationships with a parent company, affiliate, or subsidiary organization, the non-federal entity is unable or appears to be unable to be impartial in conducting a procurement action involving a related organization. The NFWF Subrecipient represents and certifies that it has adopted a conflict of interest policy that, at a minimum, complies with the requirements of the OMB Uniform Guidance, and will comply with such policy in the use of any Project funds received under this Agreement. NFWF Subrecipient may set standards for situations in which the financial interest is not substantial or the gift is an unsolicited item of nominal value. The standards of conduct must provide for disciplinary actions to be applied for violations of such standards by officers, employees, or agents of NFWF Subrecipient. If NFWF Subrecipient becomes aware of any actual or potential conflict of interest or organizational conflict of interest, during the course of performance of this Agreement, NFWF Subrecipient will immediately notify NFWF in writing of such actual or potential conflict of interest, whether organizational or otherwise.

SECTION 4 REPRESENTATIONS, CERTIFICATIONS, AND OTHER STATEMENTS RELATING TO FEDERAL FUNDS - GENERAL

4.1. If the Funding Source or any funding entity (*i.e.*, a secondary funding source) is a federal agency and/or any portion of the Project provided herein is paid with federal funds, the NFWF Subrecipient must read and understand certain applicable federal regulations, including but not limit ed to, the following in Sections 4 and 5 of this Agreement as set forth herein.

The NFWF Subrecipient will need to understand and comply with the OMB Uniform Guidance (including related Supplements as may be applicable to a specific federal funding source(s), and Appendices as may be applicable), in addition to other applicable federal regulations. This includes, but is not limited to, the provisions of the Federal Funding Accountability and Transparency Act (FFATA), which includes requirements on executive compensation, and also requirements implementing the Act for the non-federal entity at 2 CFR part 25 Financial Assistance Use of Universal Identifier and System for Award Management and 2 CFR part 170 Reporting Subaward and Executive Compensation Information. The most recent version of the Electronic Code of Federal Regulations can be found at https://www.ecfr.gov/.

4.2. CFR § 200 Subpart F Audits.

It is the responsibility of the NFWF Subrecipient to arrange for audits as required by 2 CFR Part 200, Subpart F – Audit Requirements. The NFWF Subrecipient shall notify NFWF in writing about 2 CFR Subpart F audit findings related to projects funded by NFWF pass-through funds. The NFWF Subrecipient understands that NFWF may require the NFWF Subrecipient to take corrective action measures in response to a deficiency identified during an audit.

4.3. Real and Personal Property.

In accordance with 2 C.F.R. § 200.316 (Property trust relationship), real property, equipment, and intangible property acquired or improved with federal funds must be held in trust by the NFWF Subrecipient as trustee for the beneficiaries of the project or program under which the property was acquired or improved. This trust relationship exists throughout the duration of the property's estimated useful life during which time the Federal Government retains an undivided, equitable reversionary interest in the property (Federal Interest). During the duration of the Federal Interest, the NFWF Subrecipient must comply with all use, reporting, and disposition requirements and restrictions as set forth in 2 C.F.R.§§ 200.310 (Insurance coverage) through 200.316 (Property trust relationship) and 200.329 (Reporting on real property), as applicable.

4.4. Mandatory Disclosure.

NFWF Subrecipient must disclose, in a timely manner, in writing to NFWF all violations of federal criminal law involving fraud, bribery, or gratuity violations potentially affecting the federal award. Failure to make required disclosures can result In any of the remedies described in this Agreement, including termination, and any remedies provided under law, including suspension or debarment by cognizant federal authorities.

4.5. Trafficking in Persons.

Pursuant to section 106(a) of the Trafficking Victims Protection Act of 2000, as amended (22 U.S.C. 7104(g)) (codified at 2 C.F.R. Part 175), NFWF Subrecipient shall comply with the below provisions. Further, NFWF Subrecipient shall flow down these provisions in all subawards and contracts, including a requirement that Subrecipients similarly flow down these provisions in all lower-tiered subawards and subcontracts. The provision is cited herein:

I Trafficking in persons.

- a. Provisions applicable to a recipient that is a private entity.
 - 3.3.1. You as the recipient, your employees, subrecipients under this award, and subrecipients' employees may not-
 - 3.3.1.1. Engage in severe forms of trafficking in persons during the period of time that the award is in effect;

- 3.3.1.2. Procure a commercial sex act during the period **of** time that the award is in effect; or
- 3.3.1.3. Use forced labor in the performance of the award or subawards under the award.
- 2. We as the federal awarding agency's pass-through entity may unilaterally terminate this award, without penalty, if you or a subrecipient that is a private entity -
 - Is determined to have violated a prohibition in paragraph a.1 of this award term; or
 - ii. Has an employee who is determined by the agency official authorized to terminate the award to have violated a prohibition in paragraph
 - a.1 of this award term through conduct that is either-
 - A. Associated with performance under this award; or
 - B. Imputed to you or the subrecipient using the standards and due process for imputing the conduct of an individual to an organization that are provided in 2 CFR part 180, "OMB Guidelines to Agencies on Government-wide Debarment and Suspension (Nonprocurement),".
- b. Provision applicable to a recipient other than a private entity. We as the federal awarding agency's pass-through entity may unilaterally terminate this award, without penalty, if a subrecipient that is a private entity-
 - 1. Is determined to have violated an applicable prohibition in paragraph a.1 of this award term; or
 - 2. Has an employee who is determined by the agency official authorized to terminate the award to have violated an applicable prohibition in paragraph a.1 of this award term through conduct that is either
 - i. Associated with performance under this award; or
 - ii. Imputed to the subrecipient using the standards and due process for imputing the conduct of an individual to an organization that are provided in 2 CFR part 180, "OMB Guidelines to Agencies on Government-wide Debarment and Suspension (Nonprocurement),".
- c. Provisions applicable to any recipient.
 - 1. You must inform us immediately of any information you receive from any source alleging a violation of a prohibition in paragraph a.1 of this award term.
 - 2. Our right to terminate unilaterally that is described in paragraph a.2 or b of this section:
 - i. Implements section 106(g) of the Trafficking Victims Protection Act of 2000 (TVPA), as amended (22 U.S.C. 7104(g)), and
 - ii. Is in addition to all other remedies for noncompliance that are available to us under this award.
 - 3. You must include the requirements of paragraph a.1 of this award term in any subaward you make to a private entity.
- d. Definitions. For purposes of this award term:
 - 1. "Employee" means either:
 - i. An individual employed by you or a subrecipient who is engaged in the performance of the project or program under this award; or
 - ii. Another person engaged in the performance of the project or program under this award and not compensated by you including, but not limited to, a volunteer or individual whose services are contributed by a third party as an in-kind contribution toward cost sharing or matching requirements.
 - 2. "Forced labor" means labor obtained by any of the following methods: the recruitment, harboring, transportation, provision, or obtaining of a person for labor or services, through the use of force, fraud, or coercion for the purpose of subjection to involuntary servitude, peonage, debt bondage, or slavery.

3. "Private entity":

- i. Means any entity other than a State, local government, Indian tribe, or foreign public entity, as those terms are defined in 2 CFR 175.25.
- ii. Includes:
 - A. A nonprofit organization, including any nonprofit institution of higher education, hospital, or tribal organization other than one included in the definition of Indian tribe at 2 CFR 175.25(b).
 - B. A for-profit organization.
- 4. "Severe forms of trafficking in persons," "commercial sex act," and "coercion" have the meanings given at section 103 of the TVPA, as amended (22 U.S.C. 7102).

4.6. 41 United States Code (U.S.C.) 4712, Enhancement of Recipient and Subrecipient Employee Whistleblower Protection:

- (a) This award, related subawards, and related contracts over the simplified acquisition threshold and all employees working on this award, related subawards, and related contracts over the simplified acquisition threshold are subject to the whistleblower rights and remedies established at 41U.S.C. 4712.
- (b) Recipients, their subrecipients, and their contractors awarded contracts over the simplified acquisition threshold related to this award, shall inform their employees in writing, in the predominant language of the workforce, of the employee whistleblower rights and protections under 41 U.S.C. 4712.
- (c) The recipient shall insert this clause, including this paragraph (c), in all subawards and contracts over the simplified acquisition threshold related to this award.

4.7. 41 USC §6306, Prohibition on Members of Congress Making Contracts with Federal Government.

No member of or delegate to Congress or Resident Commissioner shall be admitted to any share or part of this award, or to any benefit that may arise therefrom; this provision shall not be construed to extend to an award made to a corporation for the public's general benefit. NFWF Subrecipient shall flow down this provision in all subawards and contracts, including a requirement that subrecipients similarly flow down this provision in all lower-tiered subawards and subcontracts.

4.8. Executive Order 13513, Federal Leadership on Reducing Text Messaging while Driving.

(Sub)Recipients are encouraged to adopt and enforce policies that ban text messaging while driving, including conducting initiatives of the type described in section 3(a) of the order. NFWF Subrecipient shall flow down this provision in all subawards and contracts, including a requirement that subrecipients similarly flow down this provision in all lower-tiered subawards and subcontracts.

4.9. 43 CFR §18 New Restrictions on Lobbying.

By execution of this Agreement, the NFWF Subrecipient agrees to comply with 43 CFR 18, New Restrictions on Lobbying, and certifies to the following statements:

- (a) No federal appropriated funds have been paid or will be paid, by or on behalf of the NFWF Subrecipient, to any person for influencing or attempting to influence an officer or employee of an agency, a Member of Congress, and officer or employee of Congress, or an employee of a Member of Congress in connection with the awarding of any federal contract, the making of any federal grant, the making of any federal loan, the entering into of any cooperative agreement, and the extension, continuation, renewal, amendment, or modification of any federal contract, grant, loan, or cooperative agreement.
- (b) If any funds other than federal appropriated funds have been paid or will be paid to any person for influencing or attempting to influence an officer or employee of any agency, a Member of Congress, an officer or employee of Congress, or an employee of a Member of Congress in connection with this federal contract, grant, loan, or cooperative agreement, the undersigned shall complete and submit Standard Form-LLL, "Disclosure Form to Report Lobbying" in accordance with its instructions.

(c) The NFWF Subrecipient shall require that the language of this certification be included in the award documents for all subawards at all tiers (including subcontracts, subgrants, and contracts under grants, loans, and cooperative agreements) and that all Subrecipients shall certify accordingly. This certification is a material representation of fact upon which reliance was placed when this transaction was made or entered into. Submission of this certification, as represented by execution of this Agreement, is a prerequisite for making or entering into this transaction imposed by Section 13S2, title 31, U.S. Code. Any person who fails to file the required certification shall be subject to a civil penalty of not less than \$10,000 and not more than \$100,000 for each such failure. All liability arising from an erroneous representation shall be borne solely by the entity filing that representation and shall not be shared by any entity to which the erroneous representation is forwarded. Submitting an erroneous certification or disclosure constitutes a failure to file the required certification or disclosure, respectively. If a person fails to file a required certification or disclosure, the United States may pursue all available remedies, including those authorized by section 1352, title 31 of the U.S. Code.

4.10. Prohibition on Issuing Financial Assistance Awards to Entities that Require Certain Internal Confidentiality Agreements.

The NFWF Subrecipient must not require their employees, subrecipients, or contractors seeking to report fraud, waste, or abuse to sign internal confidentiality agreements or statements prohibiting or otherwise restricting such employees, subrecipients, or contractors from lawfully reporting such waste, fraud, or abuse to a designated investigative or law enforcement representative of a federal department or agency authorized to receive such information. The NFWF Subrecipient must notify their employees, subrecipients, or contractors that existing internal confidentiality agreements covered by this condition are no longer in effect.

4.11. Drug-Free Workplace.

The NFWF Subrecipient must make an ongoing, good faith effort to maintain a drug-free workplace pursuant to the specific requirements set forth in 41 USC Chapter 81 Drug-Free Workplace.

4.12. Prohibition on Certain Telecommunications and Video Surveillance Services or Equipment. (Effective 8/13/2020)

As required by 2 CFR 200.216, the NFWF Subrecipient is prohibited from obligating or expending funds awarded under this Agreement to procure or obtain; extend or renew a contract to procure or obtain; or enter into a contract (or extend or renew a contract) to procure or obtain equipment, services, or systems that use covered telecommunications equipment or services from Huawei Technologies Company, ZTE Corporation, Hytera Communications Corporation, Hangzhou Hikvision Digital Technology Company, and Dahua Technology Company, or any other company, including affiliates and subsidiaries, owned or controlled by the People's Republic of China, which are a substantial or essential component of any system, or as critical technology as part of any system.

By and through the NFWF Subrecipient's execution of this Agreement, the NFWF Subrecipient warrants and represents that the NFWF Subrecipient will not obligate or expend funds awarded under this Agreement for "covered telecommunications equipment or services" (as this term is defined and this restriction is imposed under 2 CFR 200.216).

4.13. Domestic Preference for Procurements.

- a) Under this Agreement and in accordance with 2 C.F.R. § 200.322, the NFWF Subrecipient shall to the greatest extent practicable, provide a preference for the purchase, acquisition, or use of goods, products or materials produced in the United States (including but not limited to iron, aluminum, steel, cement, and other manufactured products).
- b) For purposes of this agreement, the following definitions apply:
 - "Produced in the United States" means, for iron and steel products, that all
 manufacturing processes, from the initial melting stage through the application of
 coatings, occurred in the United States; and
 - ii. "Manufactured products" means items and construction materials composed in whole or in part of non-ferrous metals such as aluminum; plastics and polymer-

based products such as polyvinyl chloride pipe; aggregates such as concrete; glass, including optical fiber; and lumber.

SECTION 5 REPRESENTATIONS, CERTIFICATIONS, AND OTHER STATEMENTS RELATING TO FEDERAL FUNDS - FUNDING SOURCE SPECIFIC

NFWF Subrecipient acknowledges that when all or part of this Agreement is funded by a federal award that certain representations, certifications, and other statements relating to the use of such funds or performance of the Project may be necessary. These representations, certifications and other statements are set forth below. Unless otherwise stated in this Agreement, the execution and submission of this Agreement serves as affirmative acknowledgement of an agreement with the below representations, certifications, and other statements. Further, should circumstances of the NFWF Subrecipient change during the performance of this Agreement that would render one of these representations, certifications and/or other statements inaccurate, invalid or incorrect, the NFWF Subrecipient shall promptly notify NFWF of such change in circumstance. Finally, NFWF reserves the right to update and require subsequent acknowledgement of an agreement with new or revised representations, certifications, and other statements at no additional cost under this Agreement.

FC.AO80 Grant Terms:

U.S. Fish and Wildlife Service (Service) Financial Assistance Award Terms and Conditions.

The Service Financial Assistance Award Terms and Conditions posted on the Internet at https://www.fws.gov/grants/atc.html apply to the NFWF Subrecipient and their subrecipients and contractors. See also the Department of the Interior's General Award Terms and Conditions on their website at: https://www.doi.gov/grants/doi-standard-terms-and-conditions.

Review of Publications

Publications of any report or parts thereof by NFWF subrecipient administered under this award is subject to NFWF review and comments 30 days prior to submission. All reports must be submitted to the NFWF Program Coordinator.

Data Availability.

- (a) Applicability. The Department of Interior is committed to basing its decisions on the best available science and providing the American people with enough information to thoughtfully and substantively evaluate the data, methodology, and analysis used by the Department to inform its decisions.
- (b) Use of Data. The regulations at 2 CFR 200.315 apply to data produced under a Federal award, including the provision that the Federal Government has the right to obtain, reproduce, publish, or otherwise use the data produced under a Federal award as well as authorize others to receive, reproduce, publish, or otherwise use such data for Federal purposes.
- (c) Availability of Data. The NFWF Subrecipient shall make the data produced under this award and any subaward(s) available to the Government for public release, consistent with applicable law, to allow meaningful third party evaluation and reproduction of the following:
 - (1) The scientific data relied upon;
 - (2) The analysis relied upon; and
 - (3) The methodology, including models, used to gather and analyze data.

Buy America Provision.

Required Use of Ameri can Iron, Steel, Manufactured Products, and Construction Materials

As required by Section 70914 of the Infrastructure Investment and Jobs Act (Pu b. L. 117-S8), on or after May 14, 2022, none of the funds under a federal award that are part of a Federal financial assistance program for infrastructure may be obligated for a project unless all the iron, steel, manufactured products, and construction materials used in the project are produced in the United States, unless subject to an approved waiver. NFWF Subrecipients must include the requirements in this section in all subawards, including all contracts and purchase orders for work or products under this program.

None of the funds provided under this award may be used for a project for infrastructure unless:

- i. All iron and steel used in the project are produced in the United States. This means all manufacturing processes, from the initial melting stage through the application of coatings, occurred in the United States,
- ii. All manufactured products used in the project are produced in the United States. This means the manufactured product was manufactured in the United States, and the cost of the components of the manufactured product that are mined, produced, or manufactured in the United States is greater than 55 percent of the total cost of all components of the manufactured product, unless another standard for determining the minimum amount of domestic content of the manufactured product has been established under applicable law or regulation, and
- iii. All construction materials are manufactured in the United States. This means that all manufacturing processes for the construction material occurred in the United States.

This Buy America preference only applies to articles, materials, and supplies consumed in, incorporated into, or affixed to an infrastructure project. As such, it does not apply to tools, equipment, and supplies, such as temporary scaffolding, brought to the construction site and removed at or before the completion of the infrastructure project. Nor does a Buy America preference apply to equipment and furnishings, such as movable chairs, desks, and portable computer equipment, used at or within the finished infrastructure project but are not an integral part of the structure or permanently affixed to the infrastructure project.

For more information, visit the Department of the Interior Buy America web page at www.doi.gov/grants/BuyAmerica and the Office of Management and Budget Made in America web page at www.whitehouse.gov/omb/management/made-in-america/.

Waivers

There may be instances where an award qualifies, in whole or in part, for an existing Department of the Interior (Department) general applicability waiver as described on the Department's General Applicability Waivers web page (www.doi.gov/grants/BuyAmerica/GeneralApplicabilityWaivers). If the specific financial assistance agreement, infrastructure project, or non-domestic materials meets the criteria of an existing general applicability waiver within the limitations defined within the waiver, the NFWF Subrecipient does not need to request a separate waiver for non-domestic materials.

When necessary, NFWF Subrecipients may apply for, and the Department may grant, a waiver from these requirements, subject to review by the Made in America Office. The Department may waive the application of the domestic content procurement preference in any case in which it is determined that one of the below circumstances applies:

- i. Non-availability Waiver: the types of iron, steel, manufactured products, or construction materials are not produced in the United States in sufficient and reasonably available quantities or of a satisfactory quality,
- ii. Unreasonable Cost Waiver: the inclusion of iron, steel, manufactured products, or construction materials produced in the United States will increase the cost of the overall project by more than 25 percent, or

iii. Public Interest Waiver: applying the domestic content procurement preference would be inconsistent with the public interest.

If a general applicability waiver does not already apply, and the NFWF Subrecipient believes that one of the above circumstances applies to an award, the NFWF Subrecipient may submit a request to waive the application of the domestic content procurement preference.

Waiver Submission Instructions

- i. Type of waiver requested (non-availability, unreasonable cost, or public interest)
- ii. Requesting entity name and Unique Entity Identifier (UEI)
- iii. Awarding bureau: U.S. Fish and Wildlife Service
- iv. Awarding program Assistance Listing number and title (Notice of Award, Block 2)
- v. Project title (Notice of Award, Block 8)
- vi. Federal Award Identification Number (Notice of Award, Block 4)
- vii. Federal award amount (Notice of Award, Block 11)
- viii. Total infrastructure costs, to the extent know (federal and non-federal funds)
- ix. Infrastructure project description and location, to the extent known
- x. List of iron or steel item(s), manufactured goods, and construction material(s) the recipient seeks to waive from Buy America requirements. Include the name, cost, countries of origin, if known, and relevant Product Service Code or NAICS code for each.
- xi. A certification that the Recipient made a good faith effort to solicit bids for domestic products supported by terms included in requests for proposals, contracts, and nonproprietary communications with the prime contractor.
- xii. A statement of waiver justification, including a description of the Recipient's efforts (e.g., market research, industry outreach) to avoid the need for a waiver. Such a justification may cite, if applicable, the absence of any Buy America-compliant bids received in response to a solicitation.
- xiii. Anticipated impact if no waiver is issued

Do not include any Privacy Act information, sensitive data, or proprietary information with the waiver request.

Waiver Review Process

The Department will post waiver requests to their Buy America web page for the required 15-day public comment period. The Made in America Office will also review all waiver requests. The Department will post approved waivers on their Approved Waivers web page. The Service will notify recipients of their waiver request determination in writing by e-mail

Definitions

Construction materials includes an article, material, or supply that is or consists primarily of:

- 1. non-ferrous metals,
- 2. plastic and polymer-based products (including polyvinylchloride, composite building materials, and polymers used in fiber optic cables),
- 3. glass (including optic glass)
- 4. lumber, or
- 5. drywall.

Construction materials does not include cement and cementitious materials, aggregates such as stone, sand, or gravel, or aggregate binding agents or additives.

Domestic content procurement preference means all iron and steel used in the project are produced in the United States; the manufactured products used in the project are produced in the United States; or the construction materials used in the project are produced in the United States.

Infrastructure includes, at a minimum, the structures, facilities, and equipment for, in the United States, roads, highways, and bridges; public transportation; dams, ports, harbors, and other maritime facilities; intercity passenger and freight railroads; freight and intermodal facilities; airports; water systems, including drinking water and wastewater systems; electrical transmission facilities and systems; utilities; broadband infrastructure; and buildings and real property. Infrastructure includes facilities that generate, transport, and distribute energy.

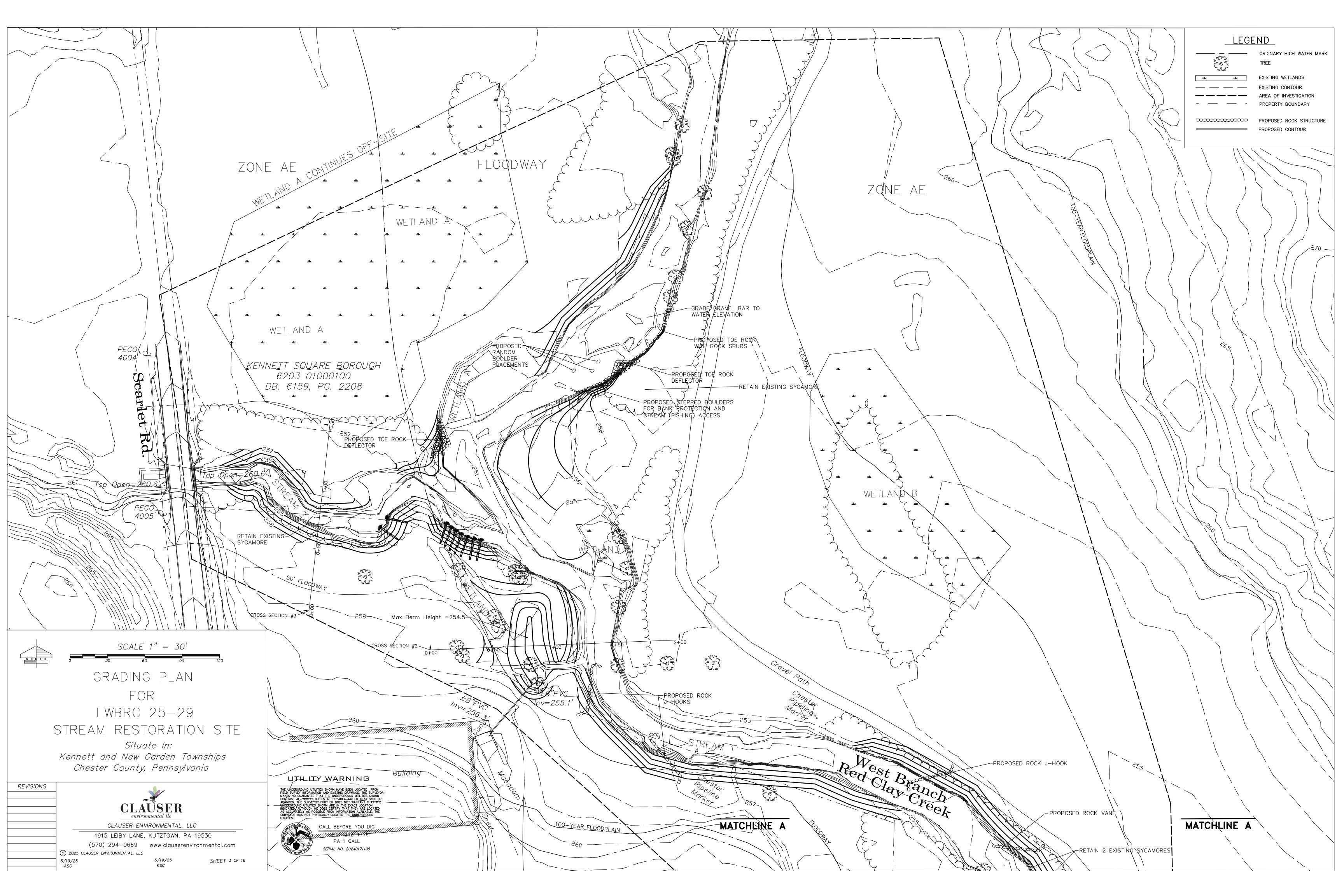
Project means the construction, alteration, maintenance, or repair of infrastructure in the United States.

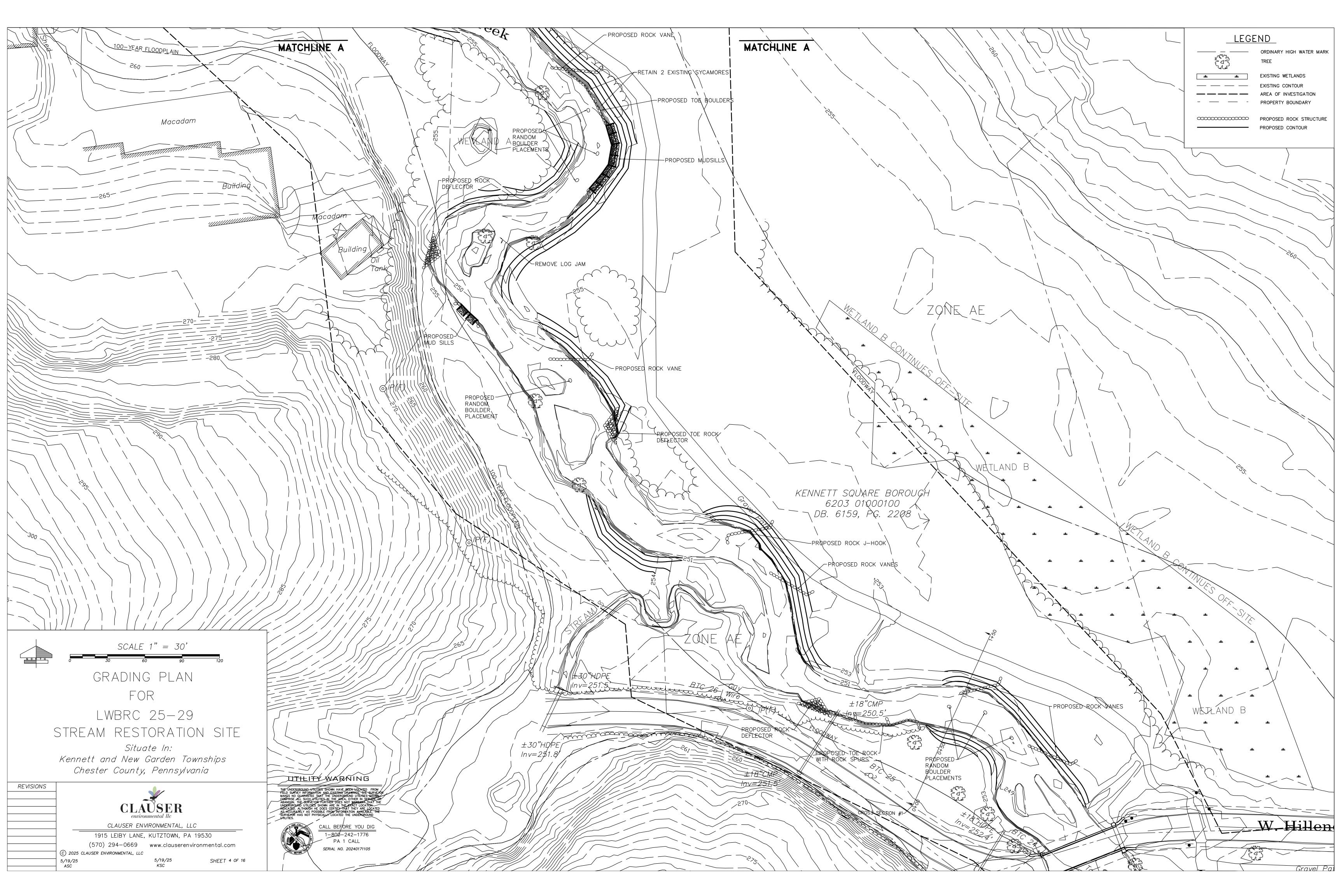
National Environmental Policy Act; the Endangered Species Act; and the National Historic Preservation Act. As a condition of this award, the NFWF Subrecipient is approved to begin planning and design aspects related to this award. All project activities must be reviewed and comply with National Environmental Policy Act (NEPA), Endangered Species Act (ESA), and Section 106 of the National Historic Preservation Act (NHPA). Once the final project plans are available and draft compliance documents completed, the NFWF Subrecipient must submit them to the U.S. Fish and Wildlife Service (Service), directly or through NFWF. No on the ground work or activities that have the potential to affect resources protected by these Acts will begin until the Service has reviewed, finalized the compliance documents, and notified the NFWF Subrecipient in writing that such work can begin.

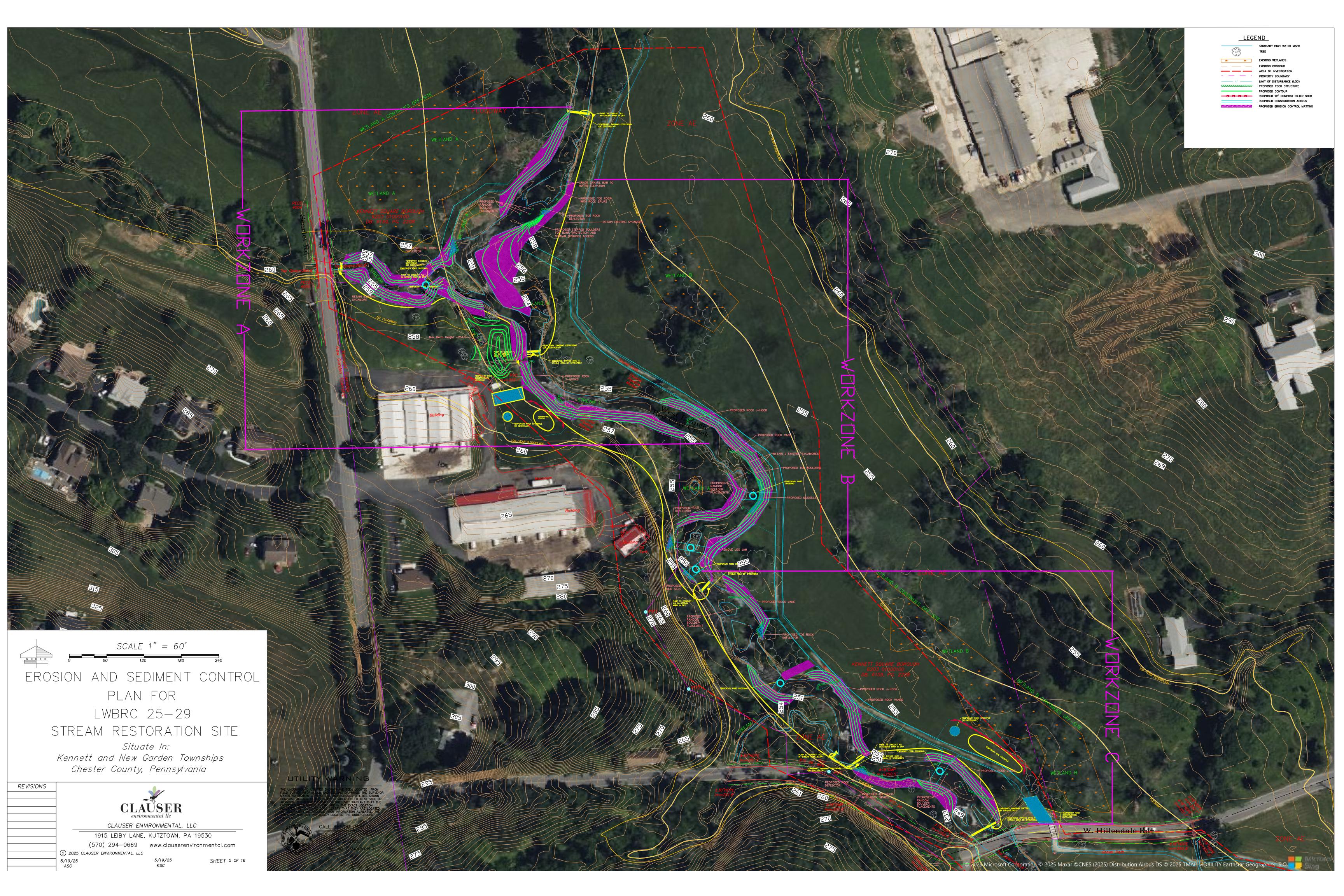
I state that	[Company] understands and
acknowledges that the above representations a	[Company] understands and are material and important, and will be relied on by
BRC in awarding the contracts for which this	bid is submitted. My firm and I understand that any
misstatement in this affidavit is and shall be t	reated as fraudulent concealment from BRC of the
true facts relating to the submission of bids for	this contract.
NAME OF FIRM	
NAME OF FIRM	
By:	
<i>D</i> y	
Title:	
Date:	
SWORN TO AND SUBSCRIBED	
BEFORE ME THIS, 20	
Notary Public	
My commission expires	

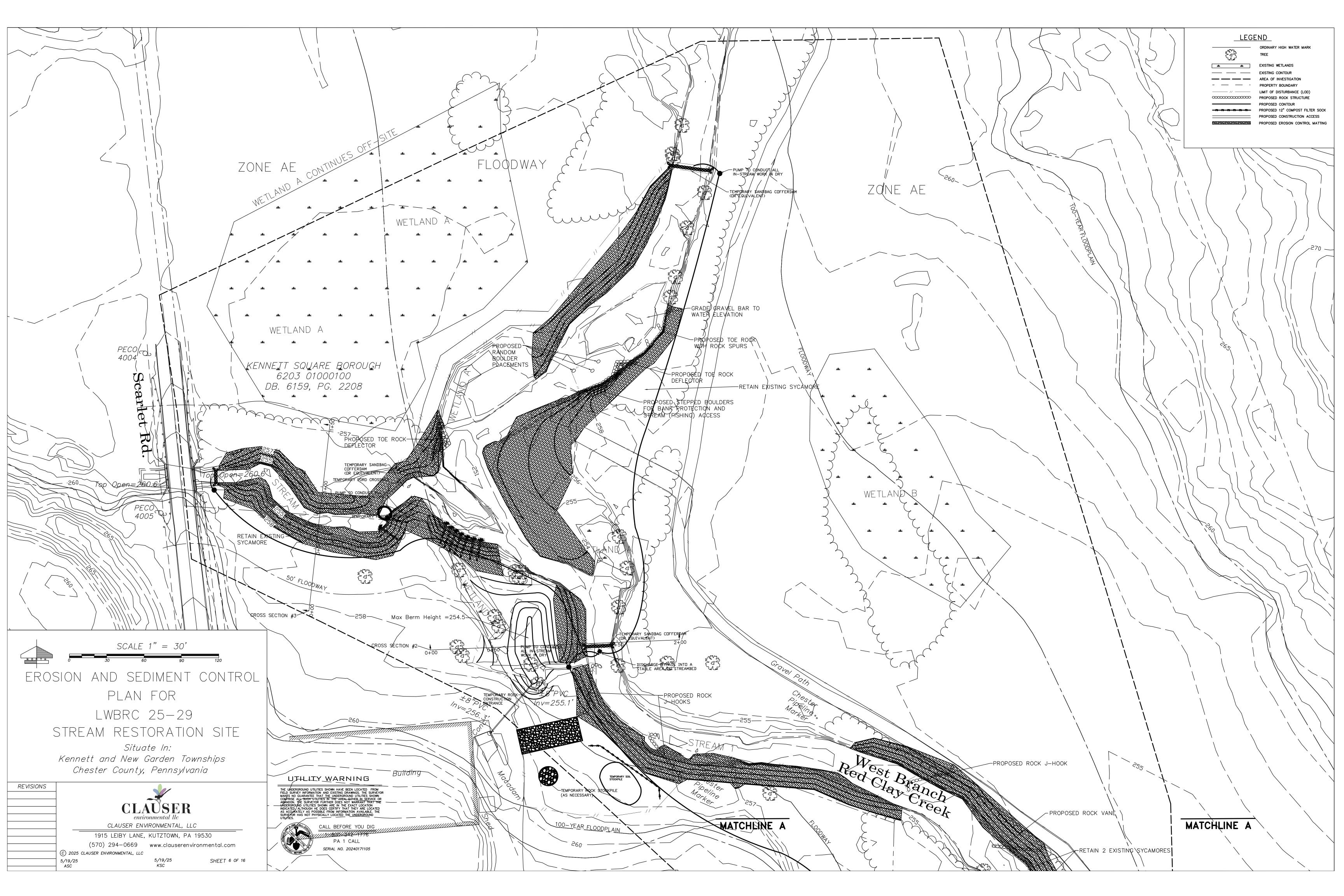


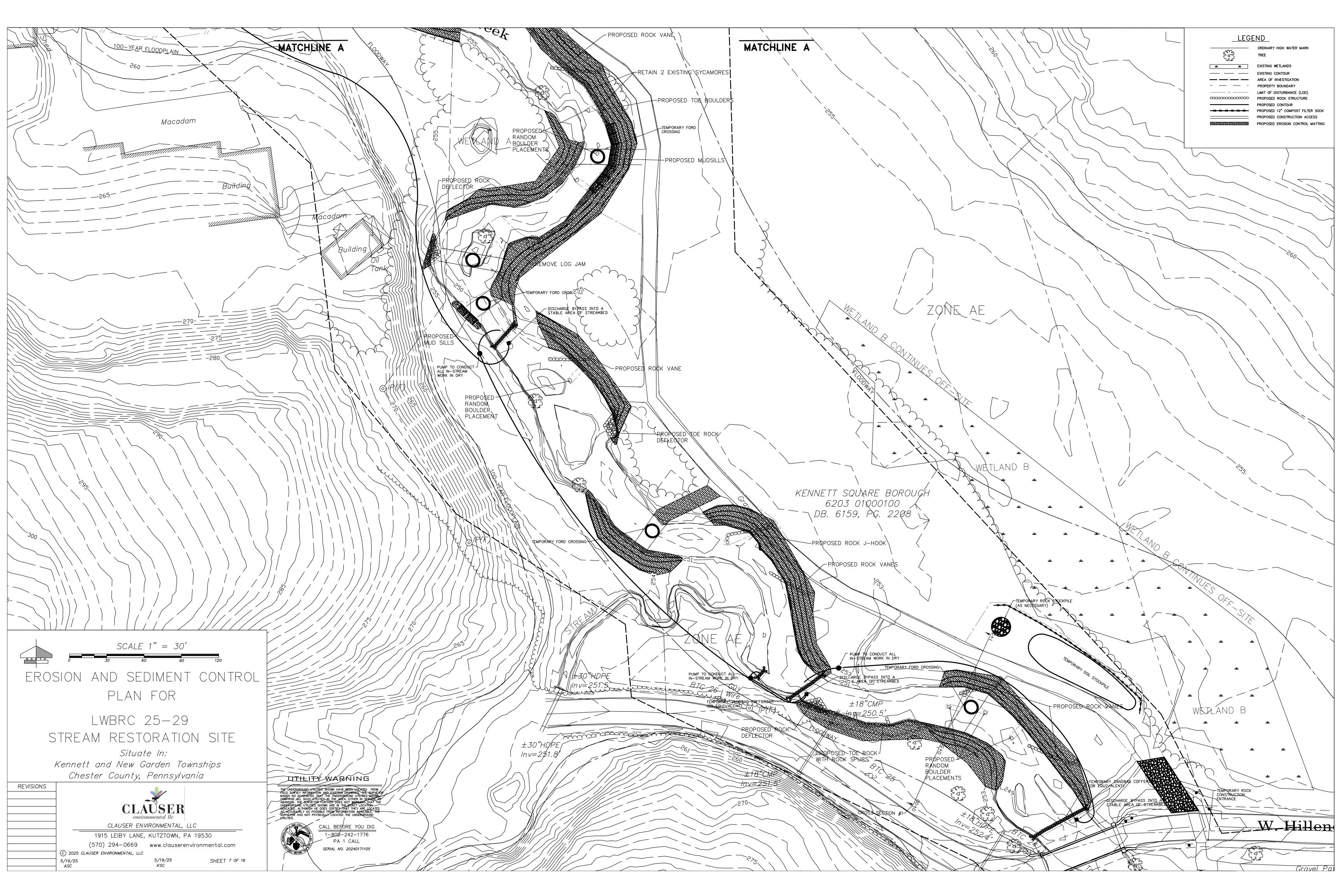


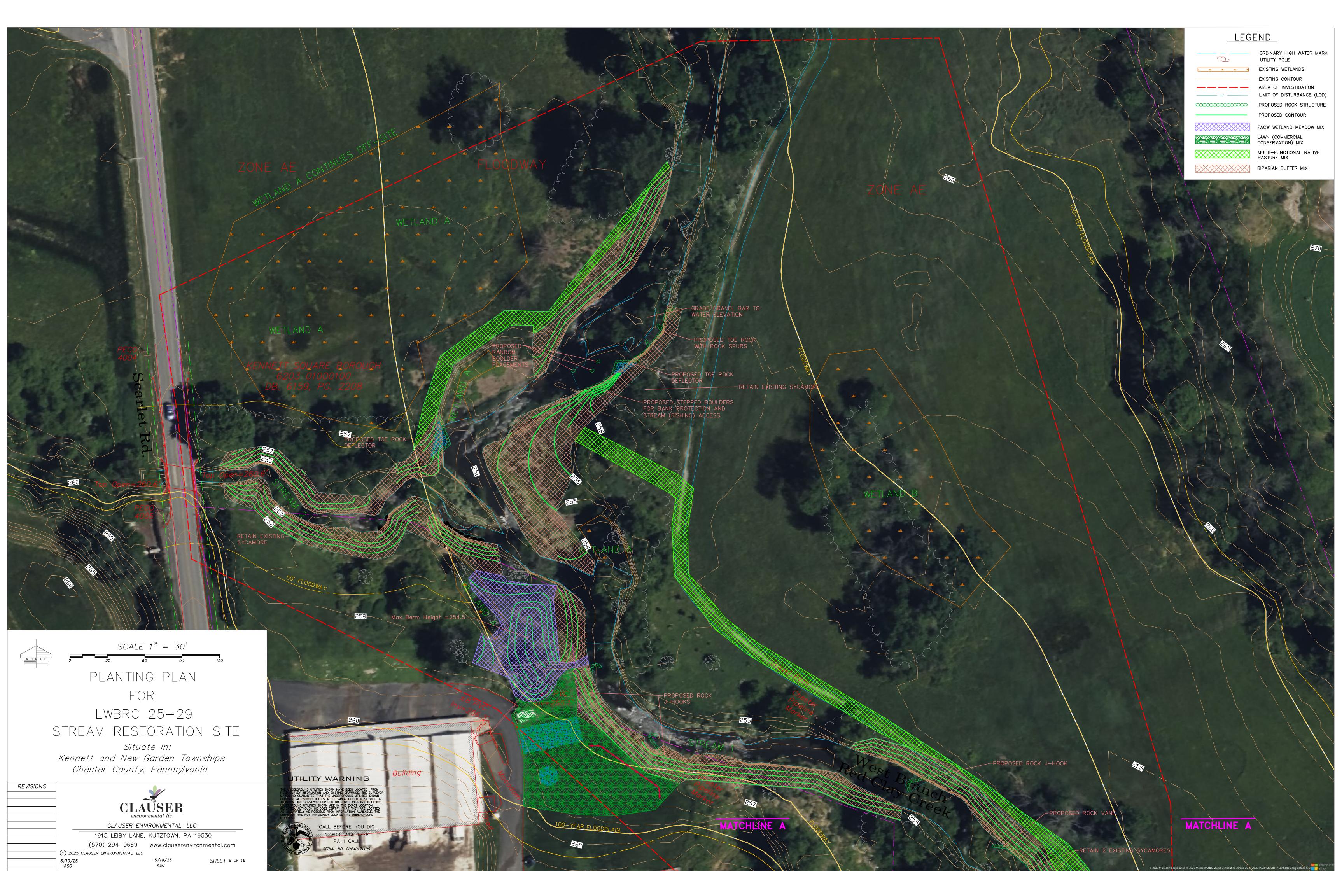


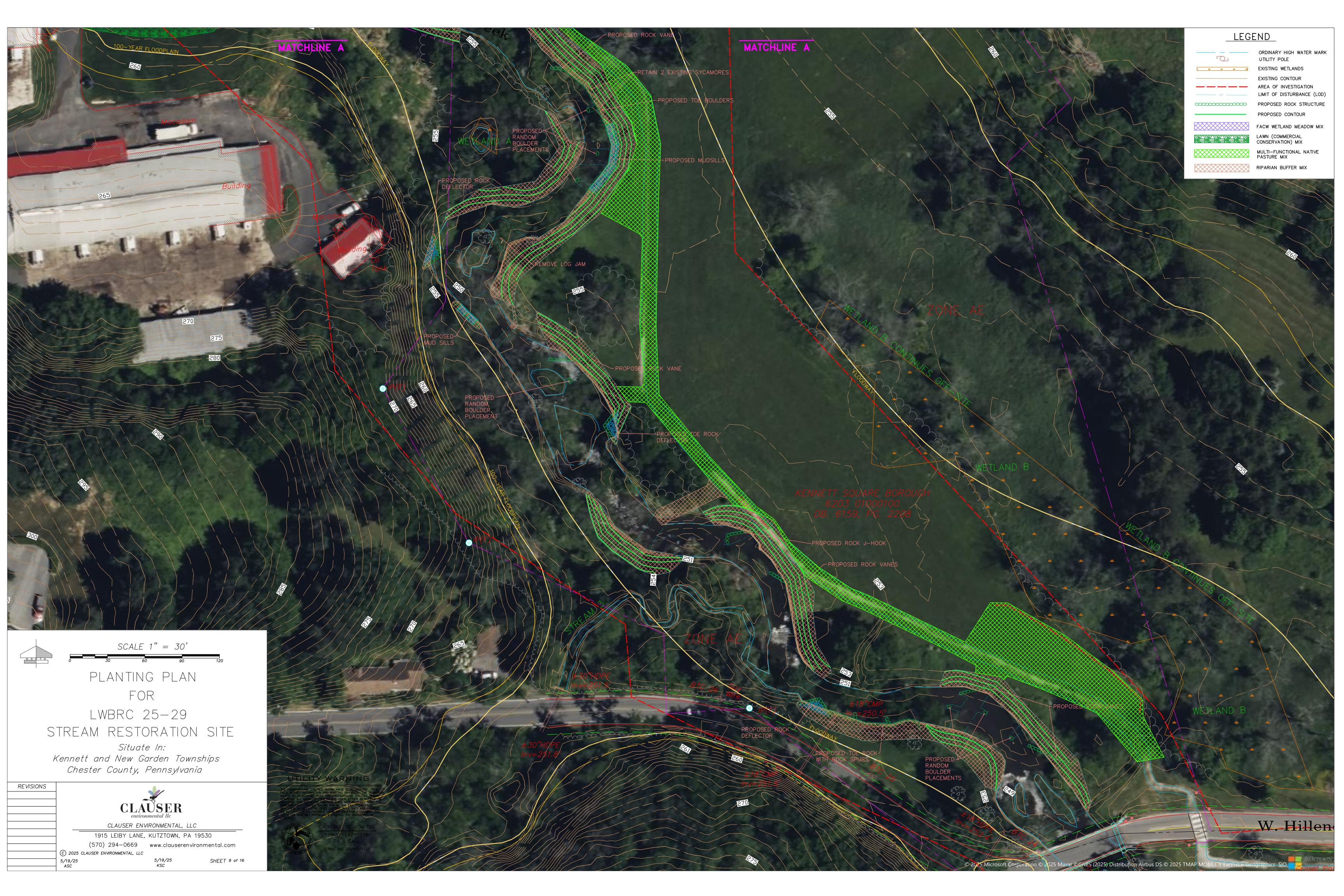


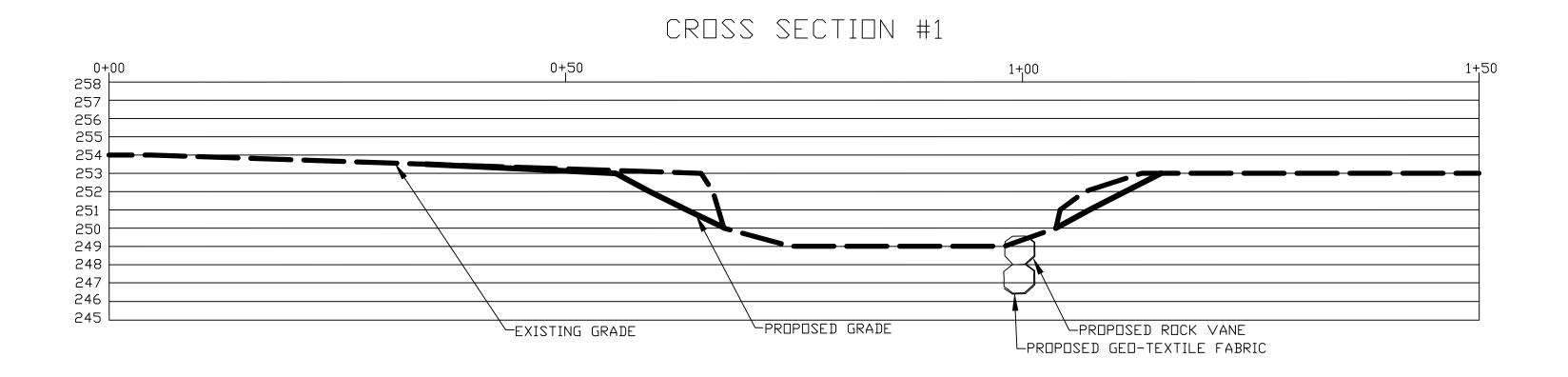


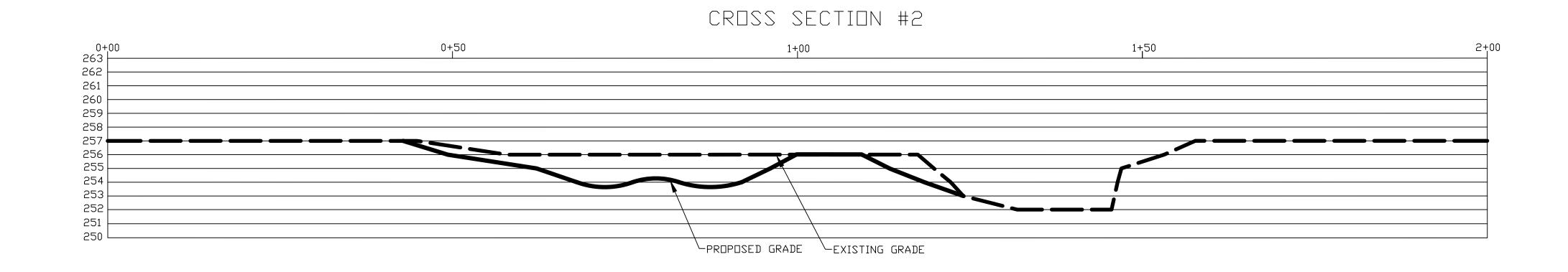


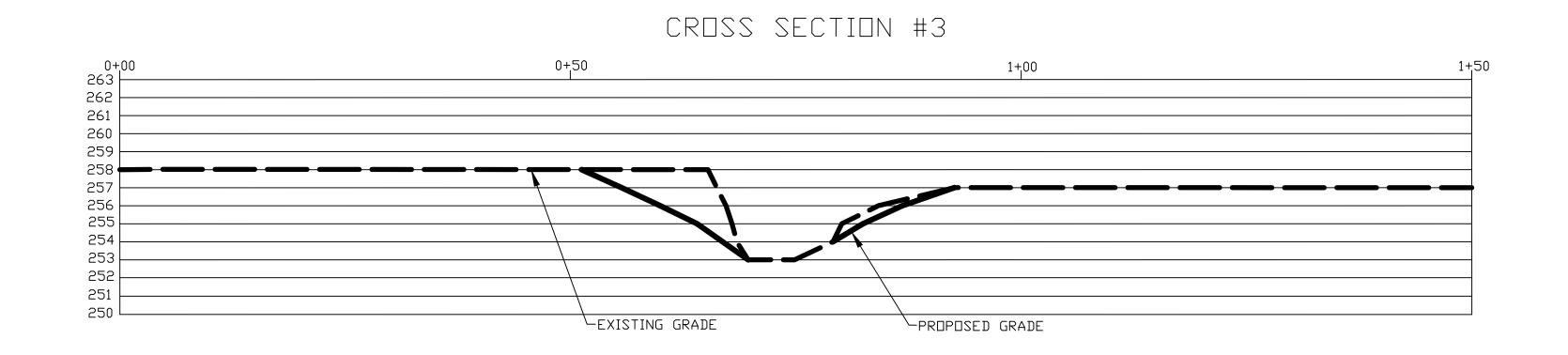


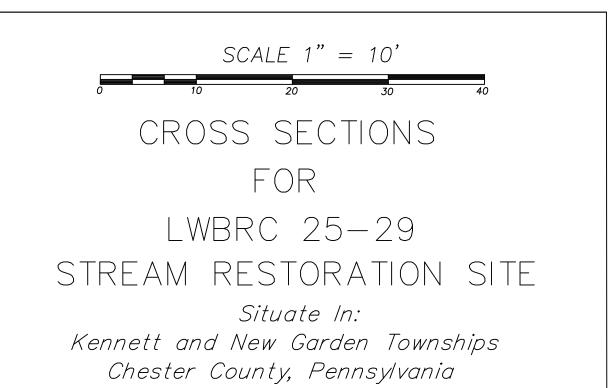




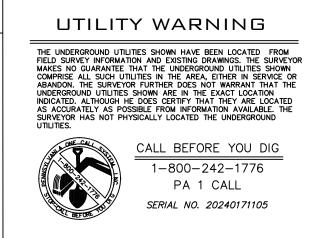


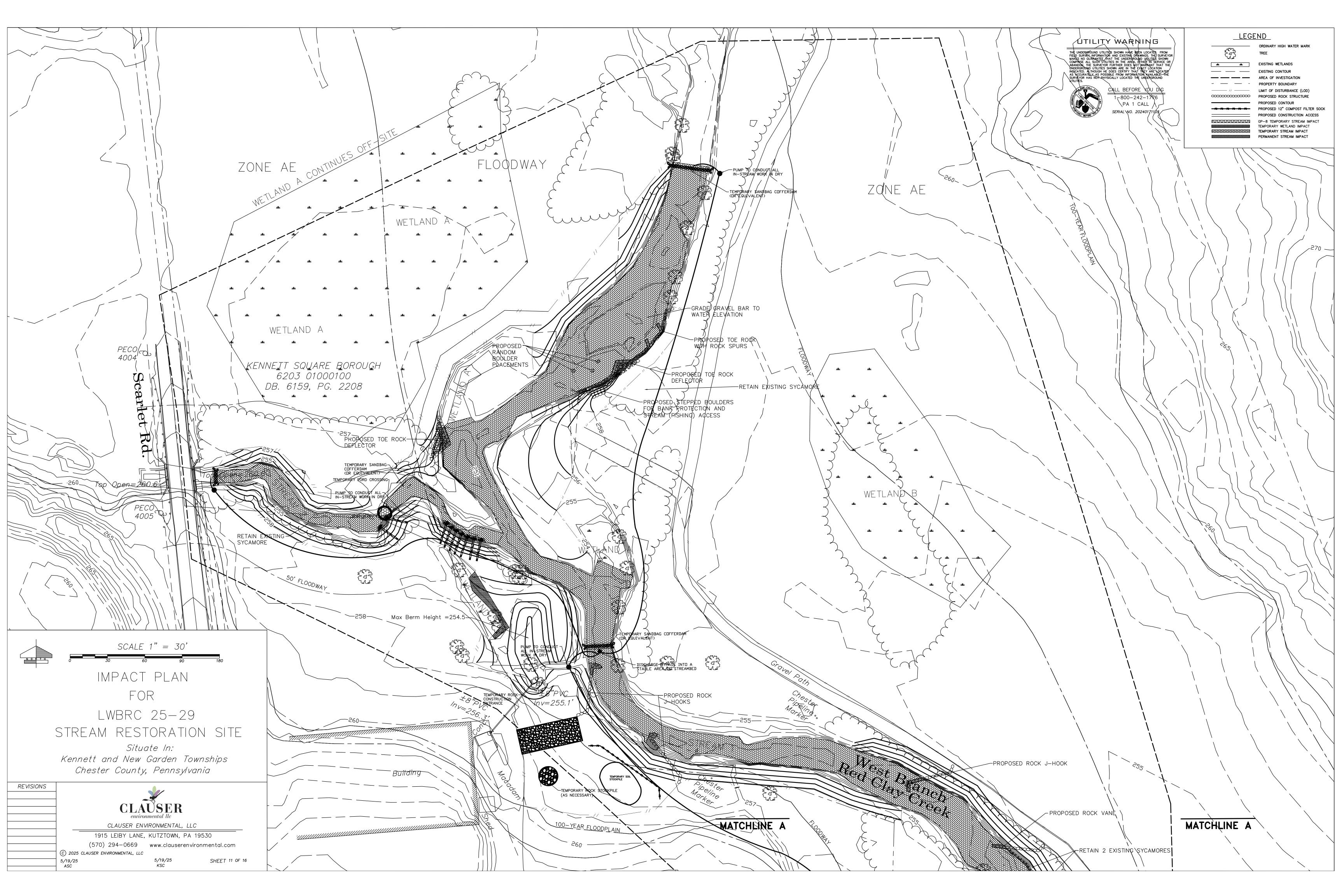


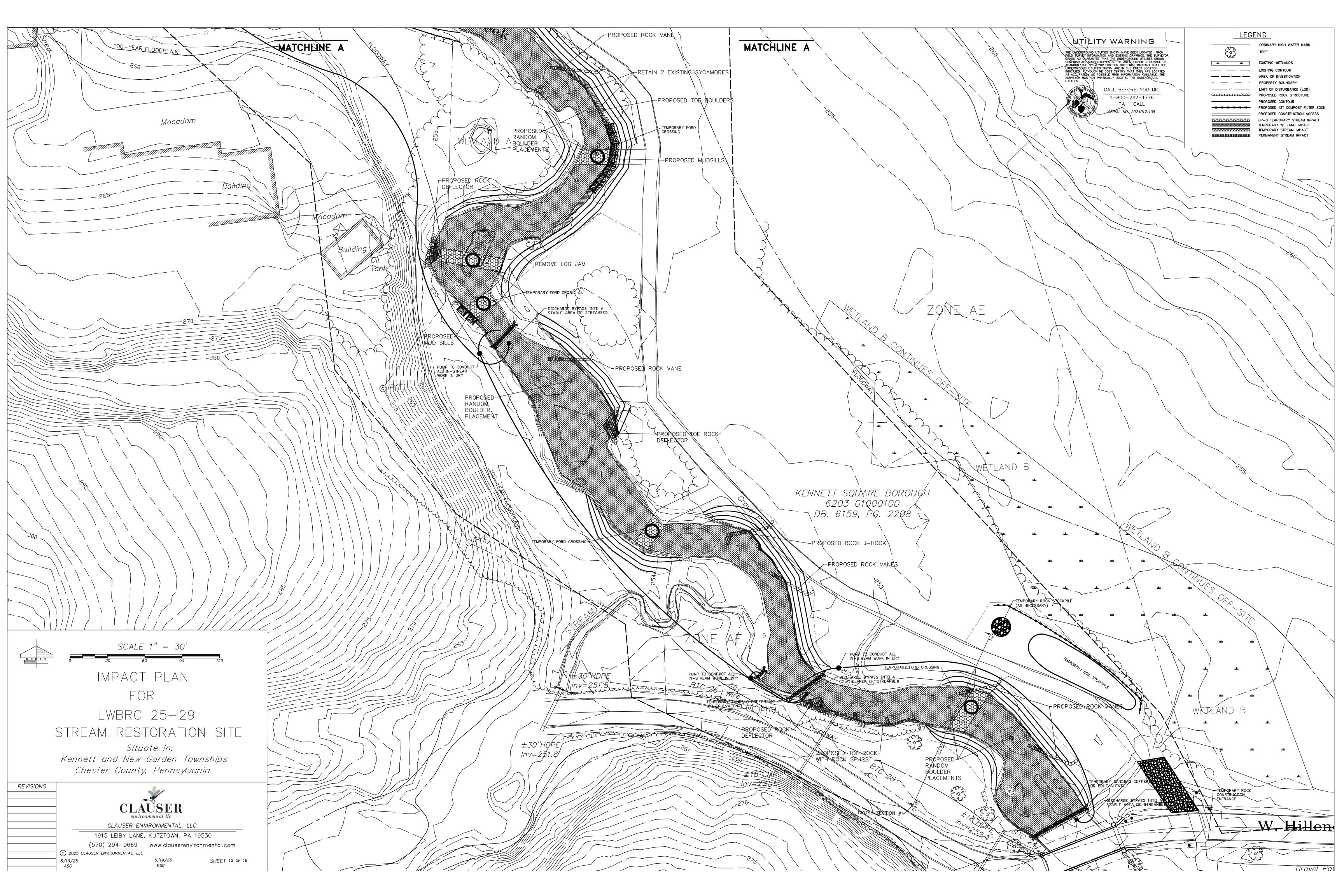




REVISIONS				
	CLAUSER			
	environmental llc			
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	(570) 294-0669 www.clauserenvironmental.com			
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	5/19/25 5/19/25 SHEET 10 OF 16 ASC KSC			







CONSTRUCTION SEQUENCE NOTES

THE OPERATOR SHALL ASSURE THAT THE APPROVED EROSION AND SEDIMENT CONTROL PLAN IS PROPERLY AND COMPLETELY IMPLEMENTED.

THE OPERATOR SHALL ASSURE THAT AN EROSION AND SEDIMENT CONTROL PLAN HAS BEEN PREPARED BY THE APPLICANT, SUBMITTED TO AND APPROVED BY THE CHESTER COUNTY CONSERVATION DISTRICT, AND IS BEING IMPLEMENTED AND MAINTAINED FOR ALL SOIL AND/OR ROCK SPOIL AND BORROW AREAS, REGARDLESS OF

BEFORE INITIATING ANY REVISIONS TO THE APPROVED EROSION AND SEDIMENT CONTROL PLAN OR REVISIONS TO OTHER PLANS WHICH MAY AFFECT THE EFFECTIVENESS OF THE APPROVED E&S CONTROL PLAN. THE OPERATOR MUST RECEIVE APPROVAL OF THE REVISIONS FROM THE CHESTER COUNTY CONSERVATION DISTRICT. ALL EARTH DISTURBANCE ACTIVITIES SHALL PROCEED IN ACCORDANCE WITH THE FOLLOWING SEQUENCE. EACH STAGE SHALL BE COMPLETED BEFORE ANY FOLLOWING STAGE IS INITIATED. CLEARING AND GRUBBING SHALL BE LIMITED ONLY TO THOSE AREAS DESCRIBED IN EACH STAGE.

EROSION AND SEDIMENT BMPS MUST BE CONSTRUCTED. STABILIZED, AND FUNCTIONAL BEFORE SITE DISTURBANCE BEGINS WITHIN THE TRIBUTARY AREAS OF THOSE BMPS.

AT LEAST 7 DAYS BEFORE STARTING ANY EARTH DISTURBANCE ACTIVITIES, THE OPERATOR SHALL INVITE ALL CONTRACTORS INVOLVED IN THOSE ACTIVITIES, THE LANDOWNER, ALL APPROPRIATE MUNICIPAL OFFICIALS. THE EROSION AND SEDIMENT CONTROL PLAN PREPARER, AND THE CHESTER CONSERVATION DISTRICT TO AN ON-SITE MEETING. ALSO, AT LEAST 3 DAYS BEFORE STARTING ANY EARTH DISTURBANCE ACTIVITIES, ALL CONTRACTORS INVOLVED IN THOSE ACTIVITIES SHALL NOTIFY THE PENNSYLVANIA ONE CALL SYSTEM INCORPORATED AT 1-800-242-1776 FOR BURIED UTILITIES LOCATIONS.

CONSTRUCTION SEQUENCE

- 1. INSTALL ROCK CONSTRUCTION ENTRANCES AND COMPOST FILTER SOCK AT ALL PROPOSED LOCATIONS.
- 2. STAKE/FLAG ALL LIMIT OF DISTURBANCE (LOD) LINES FOR THE PROJECT. 3. INSTALL THE TEMPORARY FORD CROSSINGS AS SHOWN ON THE PROJECT PLANS BEFORE CROSSING STREAMBEDS.
- 4. WHEN WORKING WITHIN THE STREAM TO INSTALL IN-STREAM STRUCTURES, WORK IN THE DEWATERED STREAMBED THROUGH THE USE OF TEMPORARY COFFERDAMS (OR EQUIVALENT) AND PUMP BYPASS AND IN ACCORDANCE WITH THE SEQUENCE
- BY THE CONTRACTOR IN THE FIELD. USE SEDIMENT FILTER BAGS AS NEEDED TO MINIMIZE SEDIMENTATION FROM THE DEWATERED ZONE. 5. PRE-POSITION MATERIALS ON-SITE FOR EACH WORKZONE SO THAT STABILIZATION MAY OCCUR IMMEDIATELY FOLLOWING GRADING OF EACH WORKZONE. GRADING OF STREAM BANKS SHOULD OCCUR ONE WORKZONE AT A TIME.
- IT IS ANTICIPATED THAT GRADING AND STABILIZATION OF THE WORKZONES WILL BE COMPLETED ONE AT A TIME IN ALPHABETICAL ORDER (UPSTREAM TO DOWNSTREAM). BUT, CONSTRUCTION CONDITIONS SHOULD BE TAKEN INTO ACCOUNT TO PROVIDE THE LEAST IMPACT TO THE SITE. IF WEATHER AND CONSTRUCTION CONDITIONS WARRANT, THE ON-SITE INSPECTOR OR CHESTER COUNTY CONSERVATION DISTRICT MAY AUTHORIZE A REQUEST BY THE CONTRACTOR TO BEGIN WORK IN MORE THAN ONE WORKZONE AT A TIME.
- 6. WHEN THE TEMPORARY COFFERDAMS AND PUMP BYPASS IS REMOVED, INSPECT ALL IN-STREAM STRUCTURES FOR FUNCTION. REPAIR ANY DEFICIENCIES
- 7. AS WORK PROCEEDS, PROGRESSIVELY SEED AND MULCH FRESHLY GRADED AREAS AND REMOVE ANY CONSTRUCTION DEBRIS. ALL STREAMBANKS SHOULD BE COMPACTED SO THAT THE SOIL IS NOT LOOSE BEFORE MATTING. REFER TO THE ATTACHED PLANTING PLAN FOR THE PROPOSED RIPARIAN BUFFER PLANTING AREAS AND THE SEEDING SPECIFICATIONS NOTE ON THIS PAGE. EROSION CONTROL MATTING SHOULD BE INSTALLED IMMEDIATELY FOLLOWING GRADING OF EACH SECTION. THE EROSION CONTROL MATTING SHOULD BE INSTALLED SO THAT THE DOWNSLOPE EDGE IS JUST ABOVE THE NORMAL FLOW LEVEL OF THE STREAM.
- 8. REMOVE THE ROCK CONSTRUCTION ENTRANCES. 9. STABILIZE ALL DISTURBED AREAS WITH SEED, FERTILIZE, LIME, AND MULCH AS REQUIRED.
- 10.WHEN VEGETATION REACHES AT LEAST 70% UNIFORM, PERENNIAL COVER, REMOVE THE COMPOST FILTER SOCK. STABILIZE ANY AREAS DISTURBED DURING REMOVAL OF THE TEMPORARY BMPS.

Co - CORDORUS SILT LOAM GgB - GLENELG SILT LOAM. 3 TO 8 PERCENT SLOPES

- GLENELG SILT LOAM, 8 TO 15 PERCENT SLOPES Ho - HOLLY SILT LOAM

Ha — HATBORO SILT LOAM MaD - MANOR LOAM, 15 TO 25 PERCENT SLOPES

ToB - TOWHEE SILT LOAM, 3 TO 8 PERCENT SLOPES UrgB - URBAN LAND-CONESTOGA COMPLEX, 0 TO 8 PERCENT SLOPES

SURVEY INFORMATION

ELEVATIONS AND CONTOURS OF THE STREAM CHANNEL AND RIPARIAN ZONE ARE SHOWN FROM ACTUAL FIELD SURVEY PERFORMED IN MAY OF 2024 BY BRINKASH AND ASSOCIATES, INC. THE FIELD SURVEY WAS MERGED WITH PA LIDAR DATA FOR THE SURROUNDING AREA.

2. PROPERTY LINES SHOWN WERE TAKEN FROM CHESTER COUNTY GIS. THIS PLAN DOES NOT REPRESENT AN ACTUAL BOUNDARY SURVEY.

3. UNDERGROUND UTILITY LOCATIONS ARE APPROXIMATE AND WERE DETERMINED FROM VISIBLE LOCATION,

PA ONE CALL UTILITY RESPONSES AND/OR BEST AVAILABLE PLAN INFORMATION. 4. RESIDENTIAL LOT IMPROVEMENTS (DWELLINGS, OUT-BUILDINGS, WELLS & SEPTIC SYSTEMS ARE NOT

5. RESIDENTIAL SERVICE UTILITY LOCATIONS (ELECTRIC, GAS, CABLE & TELEPHONE) ARE PARTIALLY SHOWN BASED ON PLANS PROVIDED BY UTILITY SERVICE PROVIDERS AND MUST BE FIELD VERIFIED.

WETLAND DELINEATION WAS COMPLETED BY CLAUSER ENVIRONMENTAL, LLC IN JUNE 2024.

ENVIRONMENTAL DUE DILLIGENCE

ENVIRONMENTAL DUE DILLIGENCE: THE APPLICANT MUST PERFORM ENVIRONMENTAL DUE DILLEGENCE TO DETERMINE IF THE FILL MATERIALS ASSOCIATED WITH THE PROJECT QUALIFY AS CLEAN FILL. ENVIRONMENTAL DUE DILLEGENCE IS DEFINED AS: INVESTIGATIVE TECHNIQUES, INCLUDING, BUT NOT LIMITED TO VISUAL PROPERTY INSPECTIONS, FLECTRONIC DATA BASE SEARCHES REVIEW OF PROPERTY OWNERSHIP. REVIEW OF PROPERTY USE HISTORY SANBORN MAPS, ENVIRONMENTAL QUESTIONNAIRES, TRANSACTION SCREENS, ANALYTICAL TESTING, ENVIRONMENTAL ASSESSMENTS OR

AUDITS. ANALYTICAL TESTING IS NOT A REQUIRED PART OF DUE DILLIGENCE UNLESS VISUAL INSPECTION AND/OR REVIEW OF THE PAST LAND USE OF THE PROPERTY INDICATES THAT THE FILL MAY HAVE BEEN SUBJECTED TO A SPILL OR RELEASE OF REGULATED SUBSTANCE. IF THE FILL MAY HAVE BEEN AFFECTED BY A SPILL OR RELEASE OF A REGULATED SUBSTANCE, IT MUST BE TESTED TO DETERMINE IF IT QUALIFIES AS CLEAN FILL. TESTING SHOULD BE PERFORMED IN ACCORDANCE WITH

APPENDIX A OF THE DEPARTMENT'S POLICY "MANAGEMENT OF FILL" LIABILITY NOTE

PENALTIES FOR EACH VIOLATION.

D.E.P. TITLE 25-PA CODES.

FAILURE TO CORRECTLY INSTALL SEDIMENT CONTROL FACILITIES OR FAILURE TO PREVENT SEDIMENT LADEN RUNOFF FROM LEAVING THE CONSTRUCTION SITE OR FAILURE TO TAKE CORRECTIVE ACTIONS TO IMMEDIATELY RESOLVE FAILURES OF SEDIMENT CONTROL FACILITIES MAY RESULT IN ADMINISTRATIVE, CIVIL AND/OR CRIMINAL PENALTIES BEING INSTITUTED BY THE PENNSYLVANIA DEPARTMENT OF ENVIRONMENTAL PROTECTION AS DEFINED IN SECTION 602 OF THE CLEAN STREAMS LAW OF PENNSYLVANIA. THE CLEAN STREAMS LAW PROVIDES FOR UP TO \$10,000 PER DAY IN CIVIL PENALTIES. UP TO \$10,000 IN SUMMARY CRIMINAL PENALTIES, AND UP TO \$25,000 IN MISDEMEANOR CRIMINAL

THIS PLAN IS NOT TO BE CONSTRUED AS AN ENVIRONMENTAL AUDIT/ASSESSMENT PLAN. THIS SURVEY MAKES NO WARRANTY OR GUARANTEE EITHER EXPRESSED OR IMPLIED AS TO THE ENVIRONMENTAL CONDITIONS OF THE PREMISES HEREON DESCRIBED I.E., THE DETECTION OF SUBSURFACE CONTAMINANTS AS DEFINED IN

DEFINITION OF CLEAN FILL

CLEAN FILL IS DEFINED AS: UNCONTAMINATED, NON-WATER SOLUBLE, NON-DECOMPOSABLE, INERT, SOLID MATERIAL. THE TERM INCLUDES SOIL, ROCK, STONE, DREDGED MATERIAL, USED ASPHALT, AND BRICK, BLOCK OR CONCRETE FROM CONSTRUCTION AND DEMOLITION ACTIVITIES THAT IS SEPARATE FROM OTHER WASTE AND IS RECOGNIZABLE AS SUCH. THE TERM DOES NOT INCLUDE MATERIALS PLACED IN OR ON THE WATERS OF THE COMMONWEALTH UNLESS OTHERWISE AUTHORIZED. (THE TERM 'USED ASPHALT" DOES NOT INCLUDE MILLED ASPHALT OR ASPHALT THAT HAS BEEN PROCESS FOR RE-USE).

CLEAN FILL AFFECTED BY A SPILL OR RELEASE OF A REGULATED SUBSTANCE: FILL MATERIALS AFFECTED BY A SPILL OR RELEASE OF A REGULATED SUBSTANCE STILL QUALIFIES AS CLEAN FILL PROVIDED THE TESTING REVEALS THAT THE FILL MATERIAL CONTAINS CONCENTRATIONS OF REGULATED SUBSTANCES THAT ARE BELOW THE RESIDENTIAL LIMITS IN TABLES FP-1A AND FP-1B FOUND IN THE DEPARTMENT'S POLICY "MANAGEMENT OF FILL".

ANY PERSON PLACING CLEAN FILL THAT HAS BEEN AFFECTED BY A SPILL OR RELEASE OF A REGULATED SUBSTANCE MUST USE FORM FP-001 TO CERTIFY THE ORIGIN OF THE FILL MATERIAL AND THE RESULTS OF THE ANALYTICAL TESTING TO QUALIFY THE MATERIAL AS CLEAN FILL. FORM FP-001 MUST BE RETAINED BY THE OWNER OF THE PROPERTY RECEIVING THE FILL. A COPY OF FORM FP-001 CAN BE FOUND AT THE END OF THESE INSTRUCTIONS.

PLAN NOTES

- A. GENERAL EROSION AND SEDIMENT CONTROL GUIDELINES:
- 1. SPOIL MATERIALS ARE NOT TO BE DISPOSED OF IN FLOODPLAINS, FLOODWAYS, OR REGULATED WATERS OF THE COMMONWEALTH AND UNITED STATES INCLUDING RIVERS, LAKES AND WETLANDS.
- 2. ALL DISTURBED SOILS SHOULD BE SEEDED AND/OR PLANTED WITH RIPARIAN VEGETATION IMMEDIATELY AFTER ACHIEVING FINAL GRADE.
- 3. UPON PROJECT COMMENCEMENT, ALL EARTHWORK ASSOCIATED WITH THIS PROJECT, WITH THE EXCEPTION OF ADDITIONAL TREE AND SHRUB PLANTING, SHOULD BE COMPLETED IMMEDIATELY.
- 4. A COPY OF THIS E&S CONTROL PLAN SHALL BE KEPT AVAILABLE FOR INSPECTION ON THE CONSTRUCTION SITE AT ALL TIMES THROUGH THE TERMS OF THE PROJECT.
- 5. THE INTENT OF THIS PLAN/NARRATIVE IS TO INDICATE GENERAL MEANS OF COMPLIANCE WITH THE REQUIREMENTS OF THE RULES AND REGULATIONS OF CHAPTER 102 OF THE PENNSYLVANIA CLEAN STREAMS LAW, IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO IMPLEMENT THESE METHODS PLUS ADDITIONAL METHODS AS MAY BE NECESSARY BECAUSE OF THE CONDITIONS CREATED BY LOCALIZED SITE CONDITIONS, AND/OR CONSTRUCTION PROCEDURES IN ORDER TO ASSURE COMPLIANCE WITH APPLICABLE LAW. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO MAINTAIN ALL SEDIMENT AND EROSION CONTROL FACILITIES SO THAT THEY PERFORM AS REQUIRED BY LAW.
- B. GENERAL EROSION AND SEDIMENT CONTROL METHODS/PROCEDURES
- 1. IN ALL CASES, THE SMALLEST PRACTICAL AREA OF STABLE LAND SURFACE SHALL
- 2. ALL RELATED SEDIMENT AND EROSION CONTROL FACILITIES SHALL BE IN PLACE AND CAPABLE OF FUNCTIONING AS INTENDED PRIOR TO EARTHMOVING ACTIVITY.
- FOR WORKING WITHIN THE STREAM CHANNEL. LOCATIONS OF TEMPORARY COFFERDAMS AND PUMP BY-PASS SETUPS CAN BE DETERMINED 3. BACKFILLED EXCAVATIONS SHALL BE RESTORED TO ORIGINAL TYPE OF COVER AND GRADE AS PER SPECIFICATIONS. SEEDING SHALL BE DONE ACCORDING TO SCHEDULE FOR PERMANENT SEEDING, TEMPORARY STABILIZATION IS REQUIRED OF ANY AND ALL ERODIBLE/SOLUBLE AREAS AND MATERIALS IMMEDIATELY.
 - 4. CONSTRUCTION ACCESS INTO UNPAVED AREAS FROM PAVED AREAS OR STREETS (PUBLIC OR PRIVATE) SHALL BE VIA A ROCK CONSTRUCTION ENTRANCE.
 - SEDIMENT SPILLED, DROPPED OR TRACKED ONTO PAVED SURFACES SHALL BE REMOVED IMMEDIATELY.
 - 6. ALL SLOPES 3:1 OR STEEPER WILL UTILIZE EROSION CONTROL MATTING.
 - ALL EARTH DISTURBANCE ACTIVITIES SHALL PROCEED IN ACCORDANCE WITH THE CONSTRUCTION SEQUENCE. EACH STAGE SHALL BE COMPLETED BEFORE ANY FOLLOWING STAGE IS INITIATED. CLEARING AND GRUBBING SHALL BE LIMITED ONLY TO THOSE AREAS DESCRIBED IN EACH STAGE.
 - 8. AT LEAST 7 DAYS BEFORE STARTING ANY EARTH DISTURBANCE ACTIVITIES THE OPERATOR SHALL INVITE ALL CONTRACTORS INVOLVED IN THOSE ACTIVITIES INCLUDING BUT NOT LIMITED TO: THE LANDOWNER AND ALL APPROPRIATE MUNICIPAL OFFICIALS, A REPRESENTATIVE FROM THE CHESTER COUNTY CONSERVATION DISTRICT FOR AN ON SITE PRE-CONSTRUCTION MEETING.
 - 9. UNTIL THE SITE IS STABILIZED, ALL EROSION AND SEDIMENTATION BMP'S MUST BE MAINTAINED PROPERLY. MAINTENANCE MUST INCLUDE INSPECTIONS OF ALL EROSION AND SEDIMENTATION BMP'S AFTER EACH RUNOFF EVENT AND ON A WEEKLY BASIS. ALL SITE INSPECTIONS WILL BE DOCUMENTED IN AN INSPECTION LOG KEPT FOR THIS PURPOSE. THE COMPLIANCE ACTIONS AND THE DATE, TIME AND NAME OF THE PERSON CONDUCTING THE INSPECTION. THE INSPECTION LOG WILL BE KEPT ON SITE AT ALL TIMES AND MADE AVAILABLE TO THE DISTRICT UPON REQUEST.

ALL PREVENTIVE AND REMEDIAL MAINTENANCE WORK, INCLUDING CLEAN OUT, REPAIR, REPLACEMENT, REGRADING, RESEEDING, REMULCHING AND REMATTING, MUST BE PREFORMED IMMEDIATELY. IF EROSION AND SEDIMENTATION BMPS FAIL TO PERFORM AS EXPECTED. REPLACEMENT BMPS OR MODIFICATIONS OF THOSE INSTALLED WILL BE

WHERE BMPS ARE FOUND TO FAIL TO ALLEVIATE EROSION OR SEDIMENT POLLUTION THE PERMITTEE OR CO-PERMITTEE SHALL INCLUDE THE FOLLOWING INFORMATION: A. THE LOCATION AND SEVERITY OF THE BMPS FAILURE AND ANY POLLUTION

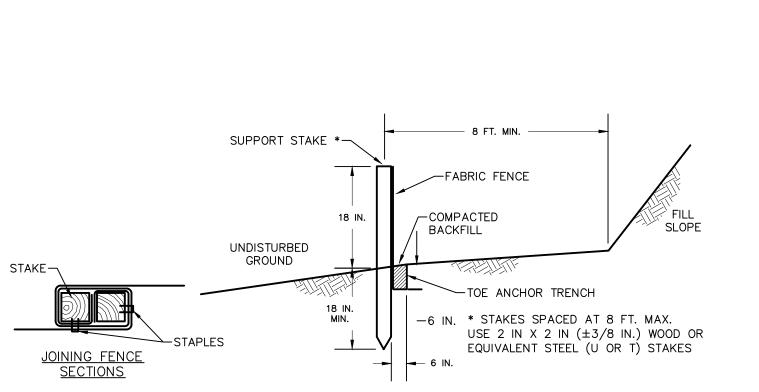
- B. ALL STEPS TAKEN TO, REDUCE, ELIMINATE AND PREVENT THE RECURRENCE OF THE NON-COMPLIANCE.
- C. THE TIME FRAME TO CORRECT THE NON-COMPLIANCE, INCLUDING THE EXACT DATES WHEN THE ACTIVITY WILL RETURN TO COMPLIANCE.
- AFTER FINAL SITE STABILIZATION HAS BEEN ACHIEVED. TEMPORARY EROSION AN SEDIMENT BMPS MUST BE REMOVED. AREAS DISTURBED DURING REMOVAL OF THE BMPS MUST BE STABILIZED IMMEDIATELY.
- 10. BEFORE INITIATING ANY REVISION TO THE APPROVED EROSION AND SEDIMENT CONTROL PLAN OR REVISIONS TO OTHER PLANS WHICH MAY AFFECT THE EFFECTIVENESS OF THE APPROVED E&S CONTROL PLAN. THE OPERATOR MUST RECEIVE APPROVAL OF THE REVISIONS FROM THE CHESTER COUNTY CONSERVATION DISTRICT. THE OPERATOR SHALL ASSURE THAT THE APPROVED EROSION AND SEDIMENT CONTROL PLAN IS PROPERLY AND COMPLETELY IMPLEMENTED. IMMEDIATELY UPON DISCOVERING UNFORESEEN CIRCUMSTANCES POSING THE POTENTIAL FOR ACCELERATED EROSION AND/OR SEDIMENT POLLUTION, THE OPERATOR SHALL IMPLEMENT APPROPRIATE BEST MANAGEMENT PRACTICES TO ELIMINATE POTENTIAL FOR ACCELERATED EROSION AND/OR SEDIMENT POLLUTION.
- 11. ALL PUMPING OF SEDIMENT LADEN WATER OR POTENTIALLY SEDIMENT LADEN WATER SHALL BE THROUGH A SEDIMENT CONTROL BMP, SUCH AS A PUMPED WATER FILTER BAG DISCHARGING OVER NON-DISTURBED AREAS.
- 12. THE CONTRACTOR IS ADVISED TO BECOME THOROUGHLY FAMILIAR WITH THE PROVISIONS OF THE APPENDIX 64, EROSION CONTROL RULES AND REGULATIONS. TITLE 25, PART 1, DEPARTMENT OF ENVIRONMENTAL PROTECTION, SUBPART C, PROTECTION OF NATURAL RESOURCES, ARTICLE III, WATER RESOURCES, CHAPTER 102. EROSION CONTROL.
- 13. THE OPERATOR SHALL REMOVE FROM THE SITE, RECYCLE, OR DISPOSE OF ALL BUILDING MATERIALS AND WASTES IN ACCORDANCE WITH THE DEPARTMENT'S SOLID WASTE MANAGEMENT REGULATIONS AT 25 PA. CODE 260.1 ET SEQ., 271.1 ET SEQ., AND 287.1 ET SEQ. THE CONTRACTOR SHALL NOT ILLEGALLY BURY, DUMP, OR DISCHARGE ANY BUILDING MATERIAL OR WASTES AT THE SITE.
- 14. STOCKPILE HEIGHTS MUST NOT EXCEED 35 FEET. STOCKPILE SLOPES MUST BE 2:1 OR FLATTER.
- 15. UPON COMPLETION OR TEMPORARY CESSATION OF THE EARTH DISTURBANCE ACTIVITY, OR ANY STAGE THEREOF, THE PROJECT SITE SHALL BE IMMEDIATELY STABILIZED WITH THE APPROPRIATE TEMPORARY OR PERMANENT STABILIZATION.
- 16. AN AREA SHALL BE CONSIDERED TO HAVE ACHIEVED FINAL STABILIZATION WHEN IT HAS A MINIMUM UNIFORM 70% PERENNIAL VEGETATIVE COVER OR OTHER PERMANENT NON-VEGETATIVE COVER WITH A DENSITY SUFFICIENT TO RESIST ACCELERATED SURFACE EROSION AND SUBSURFACE CHARACTERISTICS SUFFICIENT TO RESIST SLIDING AND OTHER MOVEMENTS. IMMEDIATELY AFTER EARTH DISTURBANCE ACTIVITIES CEASE, THE OPERATOR SHALL STABILIZE ANY AREAS DISTURBED BY THE ACTIVITIES. DURING NON-GERMINATING PERIODS, MULCH MUST BE APPLIED AT THE SPECIFIED RATES. DISTURBED AREAS WHICH ARE NOT AT FINISHED GRADE AND WHICH WILL BE REDISTURBED WITHIN 1 YEAR MUST BE STABILIZED IN ACCORDANCE WITH THE TEMPORARY VEGETATIVE STABILIZATION SPECIFICATIONS. DISTURBED AREAS WHICH ARE AT FINISHED GRADE OR WHICH WILL NOT BE REDISTURBED WITHIN 1 YEAR MUST BE STABILIZED IN ACCORDANCE WITH THE PERMANENT VEGETATIVE STABILIZATION SPECIFICATIONS.

STOP-CALL BEFORE YOU DIG! Pennsylvania One Call System, Inc. 1-800-242-1776



Brinkash & Associates, Inc. has notified the Pennsylvania One Call System, Inc DESIGN ONE CALL ONLY Serial #20240171105

> USERS OF THIS PLAN ARE HEREBY CAUTIONED THAT THIS ONE CALL NOTICE IS FOR DESIGN PURPOSES ONLY AND THAT PRIOR TO ANY EXCAVATION OR FARTHMOVING ACTIVIES IT SHALL BE THE CONTRACTOR'S/DEVELOPER'S RESPONSIBILITY TO RECONTACT THE PENNA. ONE CALL SYSTEM FOR UNDERGROUND FACILITY LOCATION AND MARKING.



FABRIC SHALL HAVE THE MINIMUM PROPERTIES AS SHOWN IN TABLE 4.3 OF THE PA DEP EROSION CONTROL MANUAL

FABRIC WIDTH SHALL BE 30 IN. MINIMUM. STAKES SHALL BE HARDWOOD OR EQUIVALENT STEEL (U OR

SECTION VIEW

SILT FENCE SHALL BE PLACED AT LEVEL EXISTING GRADE. BOTH ENDS OF THE FENCE SHALL BE EXTENDED AT LEAST 8 FEET UP SLOPE AT 45 DEGREES TO THE MAIN FENCE ALIGNMENT. SEDIMENT SHALL BE REMOVED WHEN ACCUMULATIONS REACH HALF THE ABOVE GROUND HEIGHT OF THE

ANY SECTION OF SILT FENCE WHICH HAS BEEN UNDERMINED OR TOPPED SHALL BE IMMEDIATELY

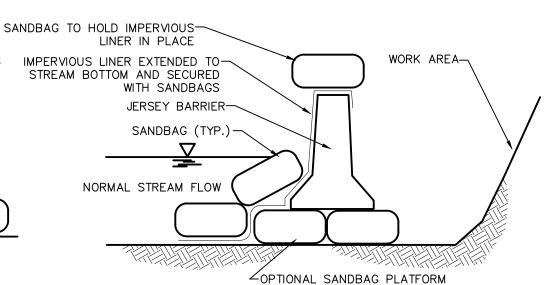
REPLACED WITH A ROCK FILTER OUTLET (STANDARD CONSTRUCTION DETAIL # 4-6). FENCE SHALL BE REMOVED AND PROPERLY DISPOSED OF WHEN TRIBUTARY AREA IS PERMANENTLY

STANDARD CONSTRUCTION DETAIL #4-7 STANDARD SILT FENCE (18" HIGH)

NOT TO SCALE

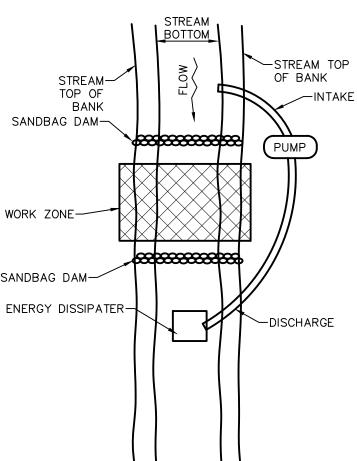
NOT TO SCALE IMPERVIOUS MEMBRANE-NORMAL STREAM FLO

> 2 BAG MIN. HEIGHT ABOVE NORMAL BASE FLOW STACKED SANDBAGS OPTION



JERSEY BARRIER OPTION

STANDARD CONSTRUCTION DETAIL #3-15 SANDBAG DIVERSION DAM OR COFFERDAM



FROM THE TOP OF STREAMBANK.

SEQUENCE FOR WORKING WITHIN THE STREAM CHANNEL: 1. INSTALL SANDBAG DAM AT THE UPSTREAM END OF THE

2. PUMP WATER AROUND THE PROPOSED WORKZONE. THE DISCHARGE SHALL BE LOCATED IN A STABLE AREA OF THE STREAMBED AND AN ENERGY DISSIPATER MUST BE INSTALLED.

3. INSTALL THE DOWNSTREAM SANDBAG DAM AS NEEDED TO MINIMIZE BACK FLOW INTO THE WORKZONE. 4. DEWATER THE WORKZONE AS NEEDED WITH A PUMPED WATER

FILTER BAG PER DETAIL. 5. COMPLETE WORK FROM THE TOP OF BANK WHEREVER POSSIBLE. WHERE IT IS NOT POSSIBLE TO WORK FROM THE TOP OF BANK, A

TEMPORARY CROSSING OR CAUSEWAY MAY BE USED TO PROVIDE A

WORKING PAD FOR ANY EQUIPMENT IN THE STREAM CHANNEL.

6. ALL EXCAVATED CHANNEL MATERIALS SHALL BE PLACED OUTSIDE OF THE FLOODWAY/FLOODPLAIN OR ANY WETLAND AREAS AND IMMEDIATELY REMOVED TO A DISPOSAL SITE HAVING AN E&S

7. AT THE END OF EACH WORKING DAY, THE CHANNEL STREAMBANKS, AND SURROUNDING AREAS WILL BE STABILIZED AND THE PUMPS WILL BE TURNED OFF. ANY DEFICIENCIES OBSERVED IN THE FUNCTION OF THE INSTALLED STRUCTURES SHALL BE

8. UPON COMPLETION, ALL SANBAG DAMS, CROSSINGS, CAUSEWAYS, AND CHANNEL ENTRANCES SHALL BE REMOVED/RESTORED TO PRE-CONSTRUCTION CONDITIONS OR THE TYPICAL BANKFULL STREAM CHANNEL SIZING DETAIL (IF PREVIOUSLY UNSTABLE).

GRUBBING SHALL NOT TAKE PLACE WITHIN 50 FEET OF TOP-OF-BANK UNTIL ALL MATERIALS REQUIRED

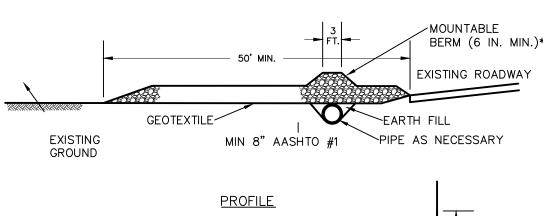
TO COMPLETE WORK WITHIN THE STREAM CHANNEL ARE ON SITE AND READY FOR INSTALLATION. BYPASS PUMP INTAKE SHALL BE MAINTAINED A SUFFICIENT DISTANCE FROM THE BOTTOM TO PREVENT PUMPING OF CHANNEL BOTTOM MATERIALS.

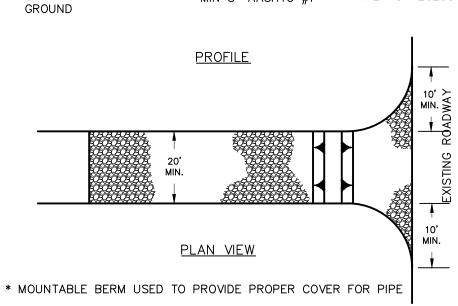
WATER ACCUMULATING WITHIN THE WORK AREA SHALL BE PUMPED TO A PUMPED WATER FILTER BAG OR SEDIMENT TRAP PRIOR TO DISCHARGING INTO ANY SURFACE WATER. HAZARDOUS OR POLLUTANT MATERIAL STORAGE AREAS SHALL BE LOCATED AT LEAST 100 FEET BACK

ALL EXCESS EXCAVATED MATERIAL SHALL BE IMMEDIATELY REMOVED FROM THE STREAM CROSSING AREA. ALL DISTURBED AREAS WITHIN 50 FEET OF TOP-OF-BANK SHALL BE BLANKETED OR MATTED WITHIN 24 HOURS OF INITIAL DISTURBANCE FOR MINOR STREAMS OR 48 HOURS OF INITIAL DISTURBANCE FOR MAJOR STREAMS UNLESS OTHERWISE AUTHORIZED.

APPROPRIATE STREAMBANK PROTECTION SHALL BE PROVIDED WITHIN THE CHANNEL.

WORKING WITHIN THE STREAM CHANNEL WITH PUMP BYPASS TYPICAL DETAIL NOT TO SCALE





NOTES: REMOVE TOPSOIL PRIOR TO INSTALLATION OF ROCK CONSTRUCTION ENTRANCE. EXTEND ROCK OVER FULL WIDTH OF ENTRANCE.

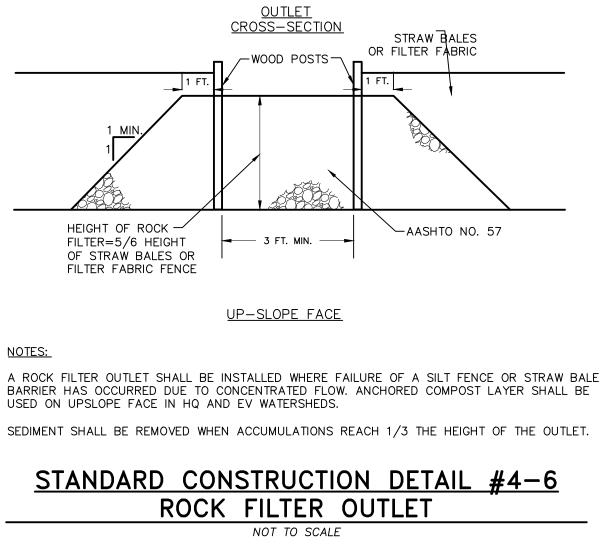
RUNOFF SHALL BE DIVERTED FROM ROADWAY TO A SUITABLE SEDIMENT REMOVAL BMP PRIOR TO ENTERING ROCK CONSTRUCTION ENTRANCE.

MOUNTABLE BERM SHALL BE INSTALLED WHEREVER OPTIONAL CULVERT PIPE IS USED AND PROPER PIPE COVER AS SPECIFIED BY MANUFACTURER IS NOT OTHERWISE PROVIDED. PIPE SHALL BE SIZED APPROPRIATELY FOR SIZE OF

MAINTENANCE: ROCK CONSTRUCTION ENTRANCE THICKNESS SHALL BE CONSTANTLY MAINTAINED TO THE SPECIFIED DIMENSIONS BY ADDING ROCK. A STOCKPILE SHALL BE MAINTAINED ON SITE FOR THIS PURPOSE. ALL SEDIMENT DEPOSITED ON PAVED ROADWAYS SHALL BE REMOVED AND RETURNED TO THE CONSTRUCTION SITE IMMEDIATELY. IF EXCESSIVE AMOUNTS OF SEDIMENT ARE BEING DEPOSITED ON ROADWAY, EXTEND LENGTH OF ROCK CONSTRUCTION ENTRANCE BY 50 FOOT INCREMENTS UNTIL CONDITION IS ALLEVIATED OR INSTALL WASH RACK. WASHING THE ROADWAY OR SWEEPING THE DEPOSITS INTO ROADWAY DITCHES, SEWERS, CULVERTS, OR OTHER DRAINAGE COURSES IS NOT ACCEPTABLE.

STANDARD CONSTRUCTION DETAIL #3-1 **ROCK CONSTRUCTION ENTRANCE**

NOT TO SCALE



-R-3 ROCK

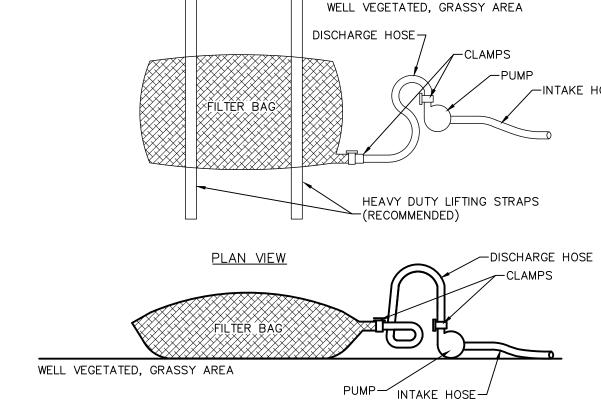
PTIONAL 6 IN. COMPOST LAYER

-OPTIONAL 6 IN. SUMP

FIRMLY ANCHORED

-AASHTO NO. 57

6 IN. MIN



ELEVATION VIEW

NOTES:

LOW VOLUME FILTER BAGS SHALL BE MADE FROM NON-WOVEN GEOTEXTILE MATERIAL SEWN WITH HIGH STRENGTH, DOUBLE STITCHED "J" TYPE SEAMS. THEY SHALL BE CAPABLE OF TRAPPING PARTICLES LARGER THAN 150 MICRONS. HIGH VOLUME FILTER BAGS SHALL BE MADE FROM WOVEN GEOTEXTILES THAT MEET THE FOLLOWING STANDARDS:

PROPERTY	TEST METHOD	MINIMUM STANDARD
AVG. WIDE WIDTH STRENGTH	ASTM D-4884	60 LB/IN
GRAB TENSILE	ASTM D-4632	205 LB
PUNCTURE	ASTM D-4833	110 LB
MULLEN BURST	ASTM D-3786	350 PSI
UV RESISTANCE	ASTM D-4355	70%
AOS % RETAINED	ASTM D-4751	80 SIEVE

A SUITABLE MEANS OF ACCESSING THE BAG WITH MACHINERY REQUIRED FOR DISPOSAL PURPOSES SHALL BE PROVIDED. FILTER BAGS SHALL BE REPLACED WHEN THEY BECOME 1/2 FULL OF SEDIMENT SPARE BAGS SHALL BE KEPT AVAILABLE FOR REPLACEMENT OF THOSE THAT HAVE FAILED OR ARE FILLED. BAGS SHALL BE PLACED ON STRAPS TO FACILITATE REMOVAL UNLESS BAGS COME WITH LIFTING STRAPS ALREADY ATTACHED.

BAGS SHALL BE LOCATED IN WELL-VEGETATED (GRASSY) AREA, AND DISCHARGE ONTO STABLE, EROSION RESISTANT AREAS. WHERE THIS IS NOT POSSIBLE, A GEOTEXTILE UNDERLAYMENT AND FLOW PATH SHALL BE PROVIDED. BAGS MAY BE PLACED ON FILTER STONE TO INCREASE DISCHARGE CAPACITY. BAGS SHALL NOT BE PLACED ON SLOPES GREATER THAN 5%. FOR SLOPES EXCEEDING 5%, CLEAN ROCK OR OTHER NON-ERODIBLE AND NON-POLLUTING MATERIAL MAY BE PLACED UNDER THE BAG TO REDUCE SLOPE STEEPNESS.

NO DOWNSLOPE SEDIMENT BARRIER IS REQUIRED FOR MOST INSTALLATIONS. COMPOST BERM OR COMPOST FILTER SOCK SHALL BE INSTALLED BELOW BAGS LOCATED IN HQ OR EV WATERSHEDS, WITHIN 50 FEET OF ANY RECEIVING SURFACE WATER OR WHERE GRASSY AREA IS NOT AVAILABLE. THE PUMP DISCHARGE HOSE SHALL BE INSERTED INTO THE BAGS IN THE MANNER SPECIFIED BY THE MANUFACTURER AND SECURELY CLAMPED. A PIECE OF PVC PIPE IS RECOMMENDED FOR THIS PURPOSE. THE PUMPING RATE SHALL BE NO GREATER THAN 750 GPM OR 1/2 THE MAXIMUM SPECIFIED BY THE MANUFACTURER, WHICHEVER IS LESS. PUMP INTAKES SHALL BE FLOATING AND SCREENED.

FILTER BAGS SHALL BE INSPECTED DAILY. IF ANY PROBLEM IS DETECTED, PUMPING SHALL CEASE

IMMEDIATELY AND NOT RESUME UNTIL THE PROBLEM IS CORRECTED.

DRAWN CHECK

5/19/25

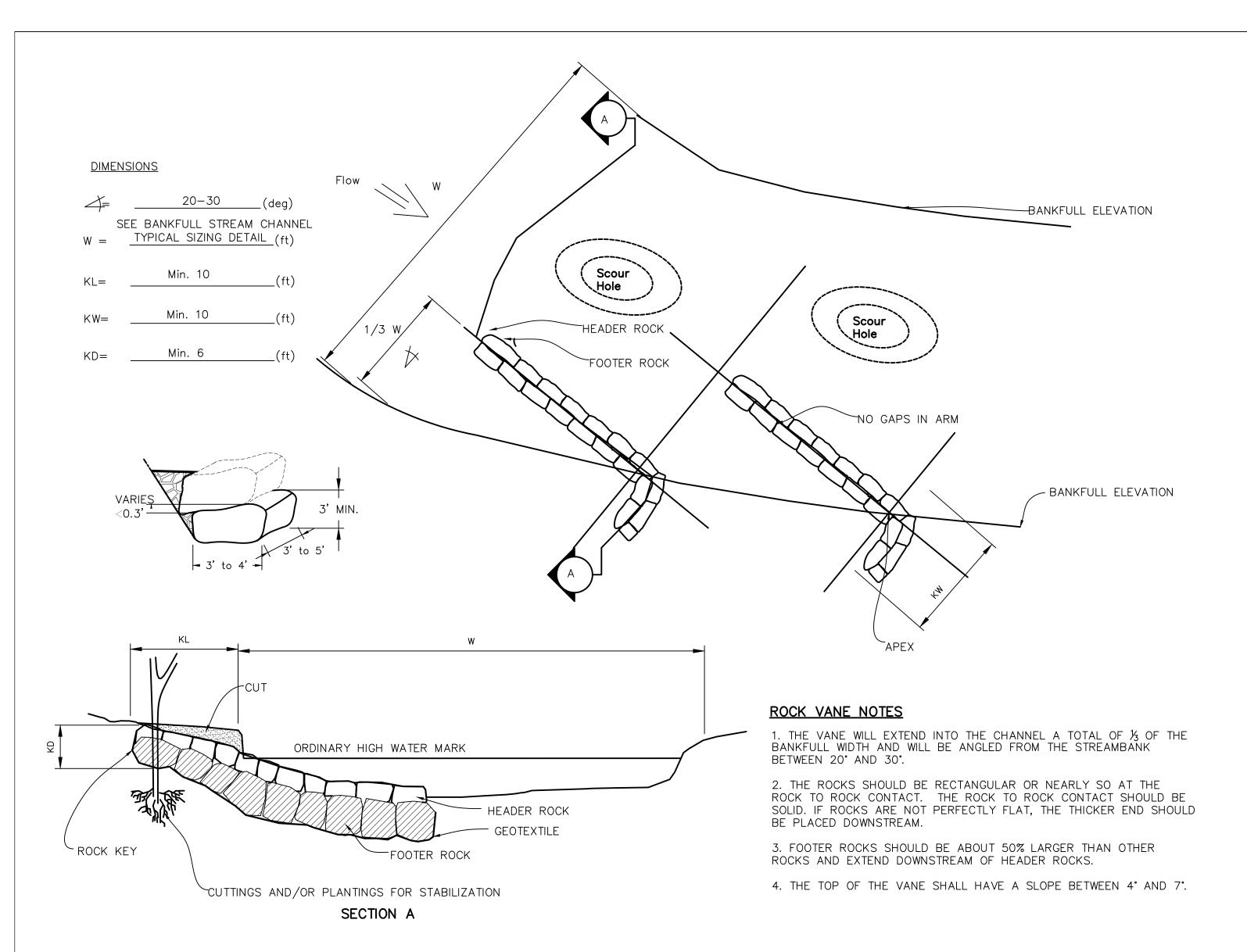
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STANDARD CONSTRUCTION DETAIL #3-16 PUMPED WATER FILTER BAG

REVISIONS LWBRC 25-29 SITE EROSION AND SEDIMENT CONTROL DETAILS CLAUSER CLAUSER ENVIRONMENTAL, LLC 1915 LEIBY LANE, KUTZTOWN, PA 19530

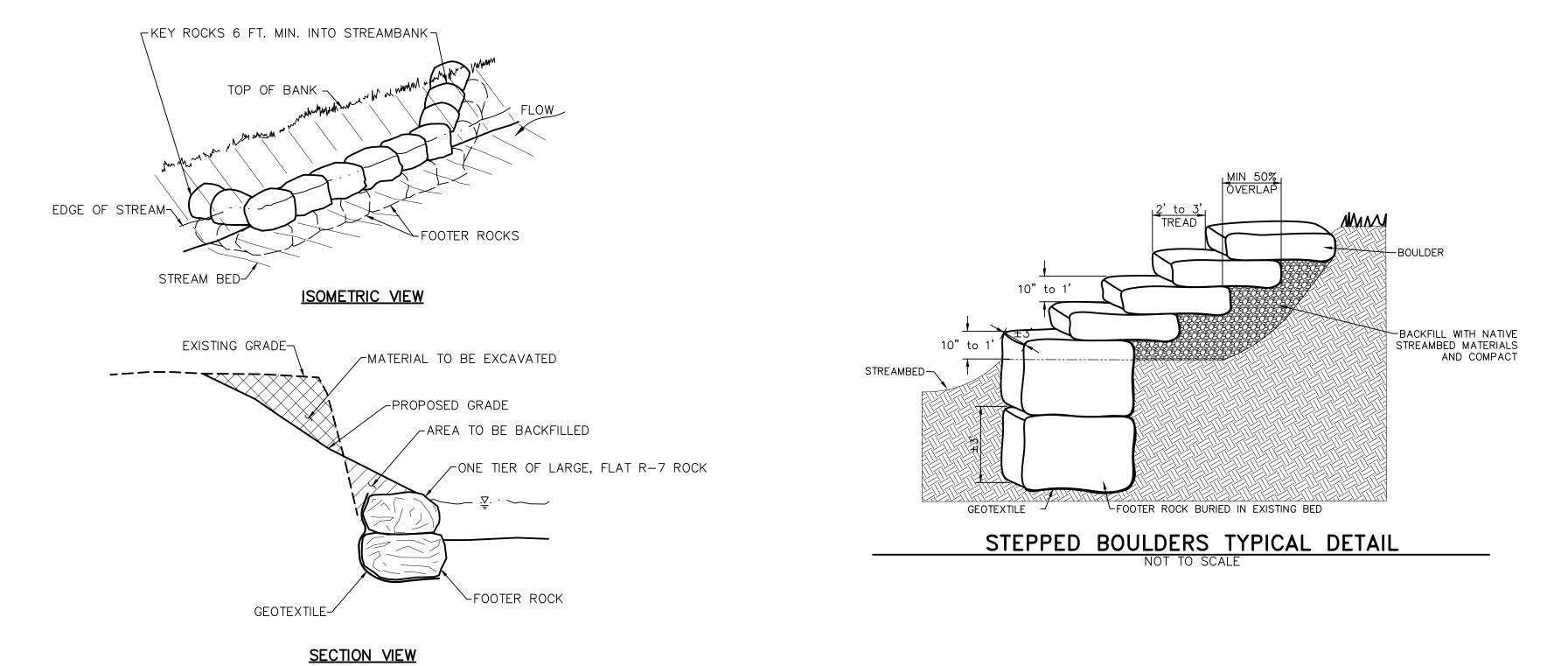
(570) 294-0669 www.clauserenvironmental.com

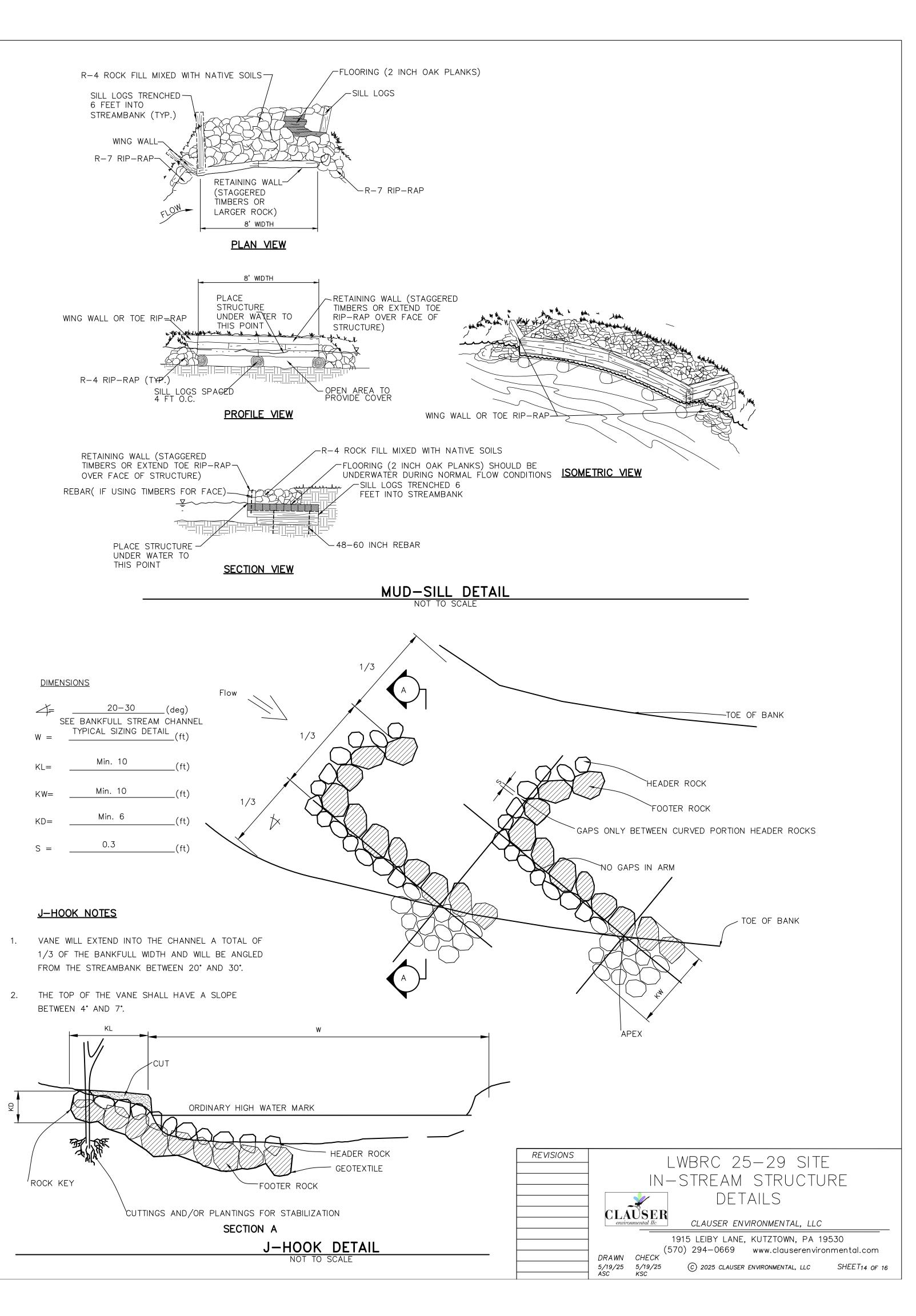
(C) 2025 CLAUSER ENVIRONMENTAL, LLC SHEET13 OF 16

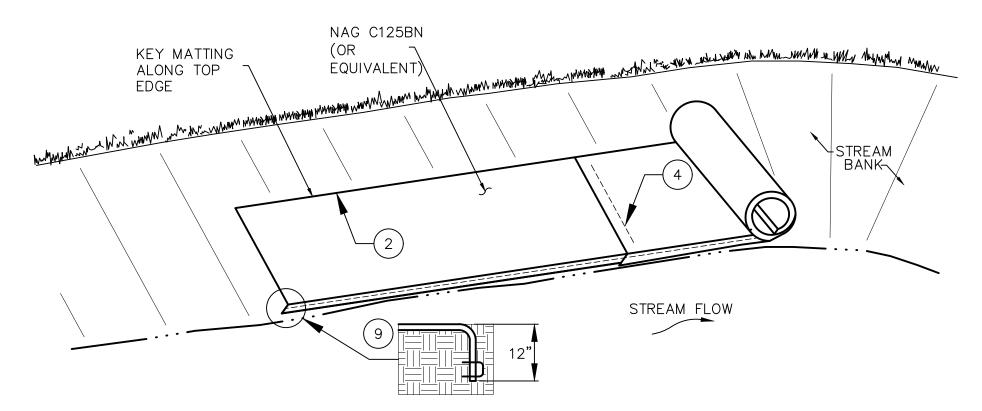


ROCK VANE DETAIL NOT TO SCALE

TOE RIP-RAP DETAIL







- NOTE: THE USE OF EROSION CONTROL MATTING IS REQUIRED ALONG RESTORED STREAM BANKS AND ON ALL SLOPES GREATER THAN 3:1 OR WHERE SHOWN ON PLAN
- AND SEED. 2. BEGIN AT THE TOP OF THE CHANNEL BY ANCHORING THE BLANKET IN A 6" DEEP x 6"

1. PREPARE SOIL BEFORE INSTALLING BLANKETS,

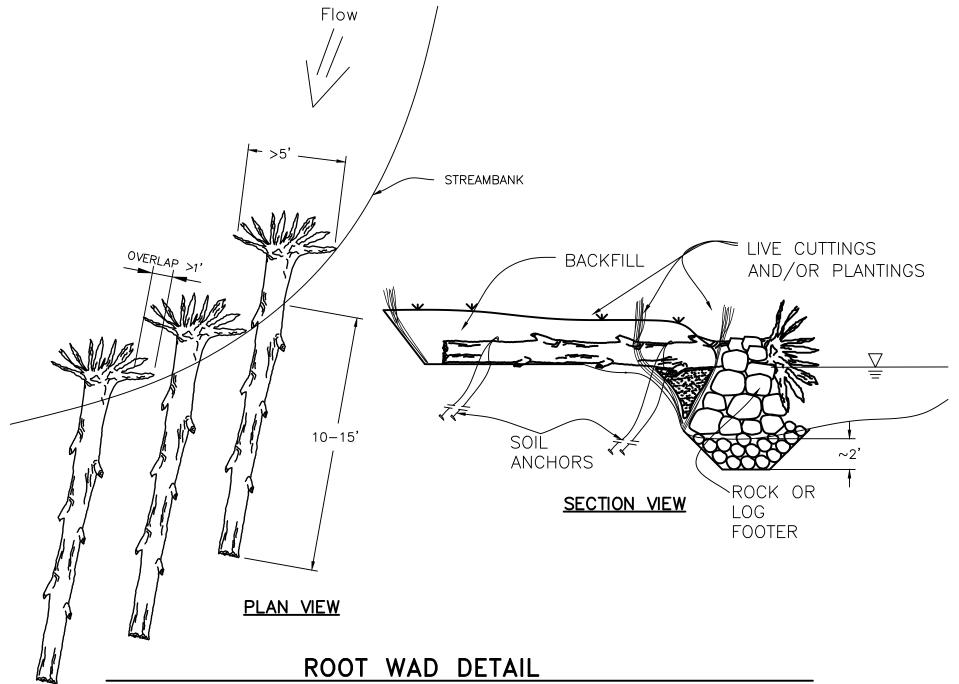
INCLUDING APPLICATION OF LIME, FERTILIZER,

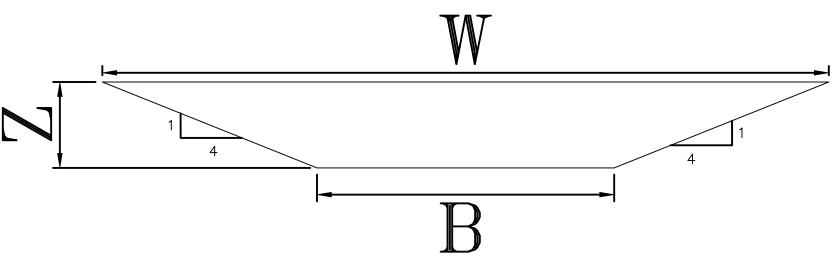
- WIDE TRENCH. BACKFILL AND COMPACT THE TRENCH AFTER STAPLING. 3. ROLL CENTER BLANKET IN DIRECTION OF WATER
- FLOW HORIZONTALLY ACROSS SHORELINE 4. PLACE BLANKET END OVER END (SHINGLE
- STYLE) WITH A 6" OVERLAP. USE A DOUBLE ROW OF STAGGERED STAPLES 4" APART TO
- SECURE BLANKETS.
 5. FULL LENGTH EDGE OF BLANKETS AT TOP OF SIDE SLOPES MUST BE ANCHORED IN 6" DEEP x 6" WIDE TRENCH. BACKFILL AND COMPACT THE TRENCH AFTER STAPLING.
- 6. BLANKETS ON SIDE SLOPES MUST BE OVERLAPPED 4" OVER THE CENTER BLANKET

AND STAPLED

EROSION CONTROL MATTING DETAIL

- 7. IN HIGH FLOW CHANNEL APPLICATIONS, A STAPLE CHECK SLOT IS RECOMMENDED AT 30 TO 40 FOOT INTERVALS. USE A ROW OF STAPLES 4" APART OVER ENTIRE WIDTH OF CHANNEL. PLACE A SECOND ROW 4" BELOW THE FIRST ROW IN A STAGGERED PATTERN.
- 8 THE TERMINAL END OF THE BLANKETS MUST BE ANCHORED IN A 6" DEEP x 6" WIDE TRENCH. BACKFILL AND COMPACT THE TRENCH AFTER STAPLING.
- 9. THE EDGE OF ALL HORIZONTAL BLANKETS AT OR BELOW NORMAL WATER LEVEL MUST BE ANCHORED BY PLACING THE BLANKET IN A 6" DEEP x 6" WIDE ANCHOR TRENCH. ANCHOR BLANKET WITH A ROW OF STAPLES/STAKES APPROXIMATELY 4" APART IN TRENCH. BACKFILL AND COMPACT TRENCH. AN ACCEPTABLE ALTERNATE IS TO ANCHOR THE EDGE WITH LIVE STAKES CUT FROM NATIVE VEGETATION AT 3 FOOT INTERVALS.

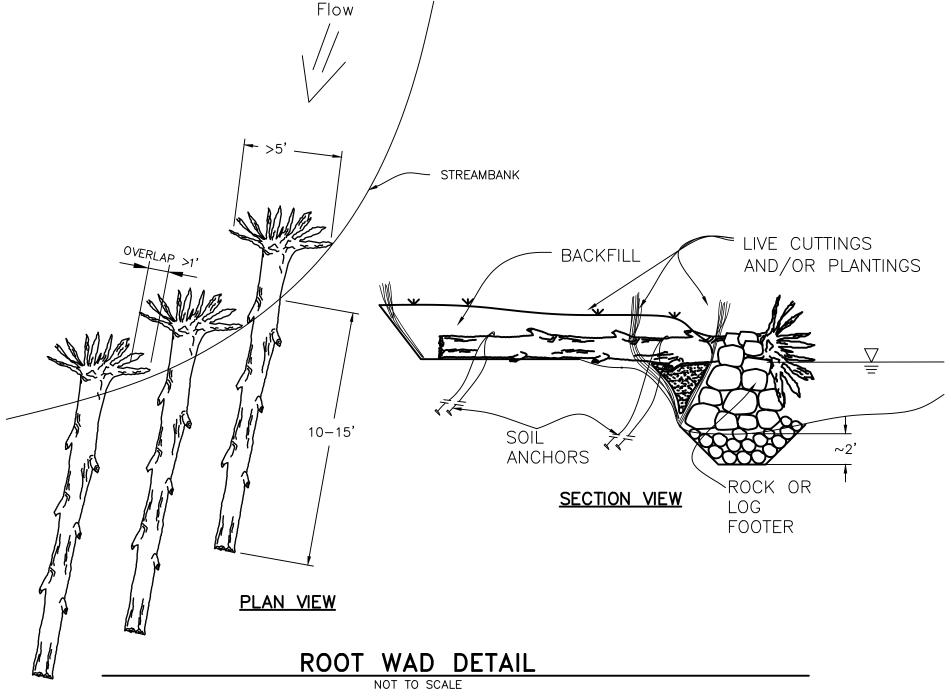


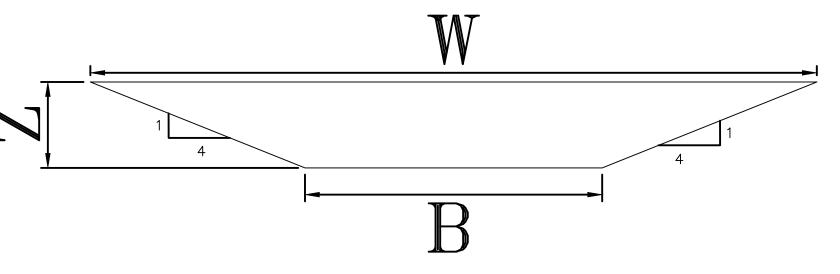


LWBRC 25-29 SITE			
LOCATION	W (ft)	Z (ft)	B (ft)
UPSTREAM LWBRC	50.2	3.6	25
DOWNSTREAM LWBRC	65.1	4.3	35
SCARLET RUN	33.2	2.9	10

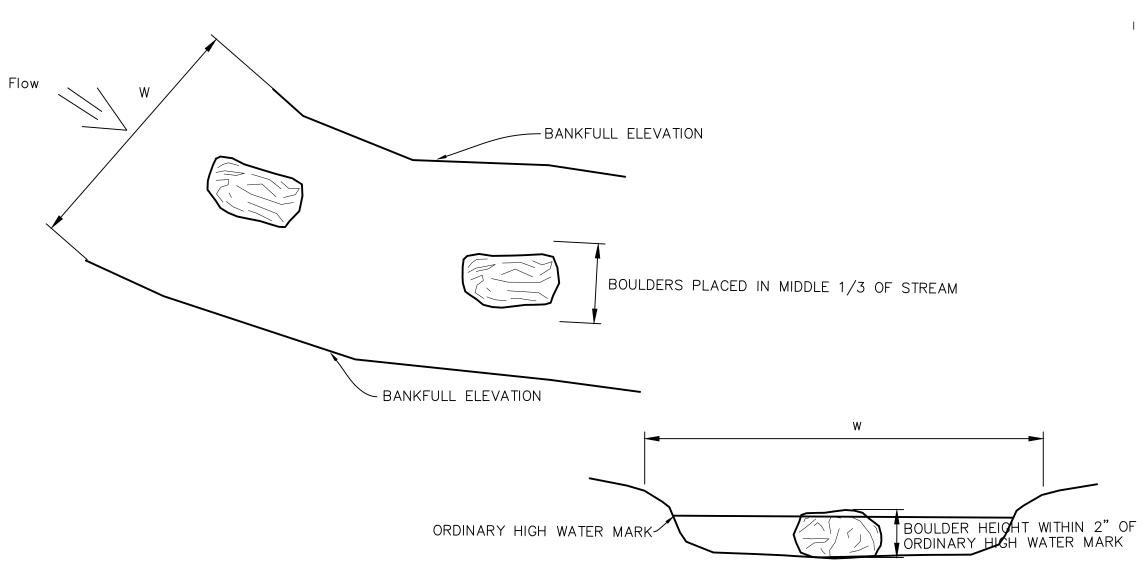
BANKFULL STREAM CHANNEL TYPICAL SIZING DETAIL

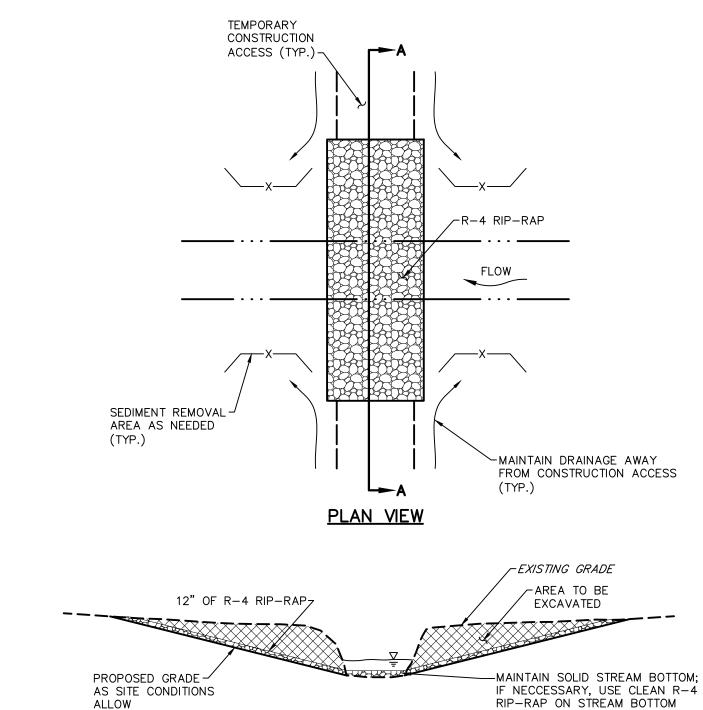
RANDOM BOULDER PLACEMENT DETAIL





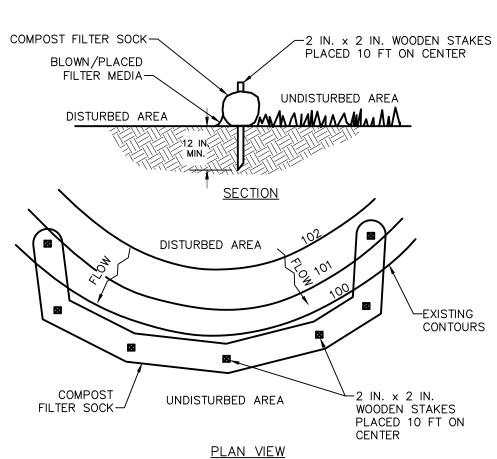
LWBRC 25-29 SITE				
LOCATION	W (ft)	Z (ft)	B (ft)	
UPSTREAM LWBRC	50.2	3.6	25	
DOWNSTREAM LWBRC	65.1	4.3	35	
SCARLET RUN	33.2	2.9	10	





SECTION A-A

TEMPORARY CONSTRUCTION FORD CROSSING DETAIL



SOCK FABRIC SHALL MEET STANDARDS OF TABLE 4.1 OF THE PA DEP EROSION CONTROL MANUAL. COMPOST SHALL MEET THE STANDARDS OF TABLE 4.2 OF THE PA DEP EROSION CONTROL MANUAL. COMPOST FILTER SOCK SHALL BE PLACED AT EXISTING LEVEL GRADE. BOTH ENDS OF THE BARRIER SHALL BE EXTENDED AT LEAST 8 FEET UP SLOPE AT 45 DEGREES TO THE MAIN BARRIER ALIGNMENT. MAXIMUM SLOPE LENGTH ABOVE ANY BARRIER SHALL NOT EXCEED THAT SPECIFIED FOR THE SIZE OF THE SOCK AND

TRAFFIC SHALL NOT BE PERMITTED TO CROSS COMPOST FILTER SOCKS.

ACCUMULATED SEDIMENT SHALL BE REMOVED WHEN IT REACHES 1/2 THE ABOVE GROUND HEIGHT OF THE BARRIER AND DISPOSED IN THE MANNER DESCRIBED ELSEWHERE IN THE PLAN.

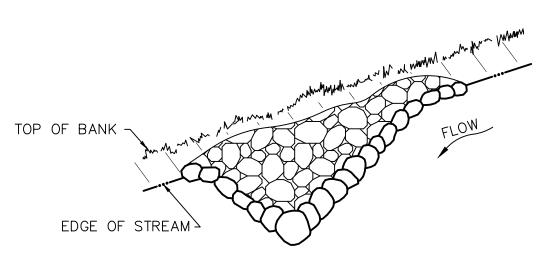
COMPOST FILTER SOCKS SHALL BE INSPECTED WEEKLY AND AFTER EACH RUNOFF EVENT. DAMAGED SOCKS SHALL BE REPAIRED ACCORDING TO MANUFACTURER'S SPECIFICATIONS OR REPLACED WITHIN 24 HOURS OF

BIODEGRADABLE COMPOST FILTER SOCKS SHALL BE REPLACED AFTER 6 MONTHS; PHOTODEGRADABLE SOCKS AFTER 1 YEAR. POLYPROPYLENE SOCKS SHALL BE REPLACED ACCORDING TO MANUFACTURER'S

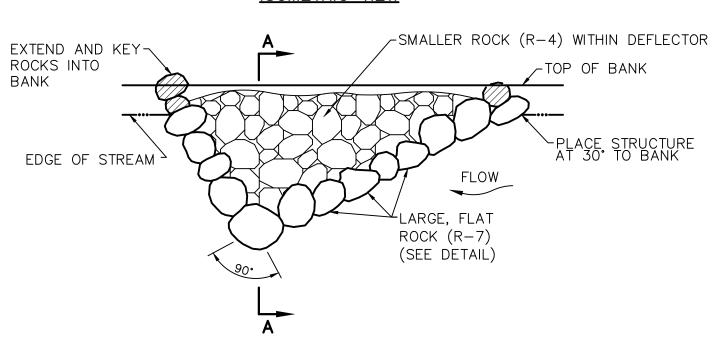
UPON STABILIZATION OF THE AREA TRIBUTARY TO THE SOCK, STAKES SHALL BE REMOVED. THE SOCK MAY BE LEFT IN PLACE AND VEGETATED OR REMOVED. IN THE LATTER CASE, THE MESH SHALL BE CUT OPEN AND THE MULCH SPREAD AS A SOIL SUPPLEMENT.

STANDARD CONSTRUCTION DETAIL #4-1 COMPOST FILTER SOCK

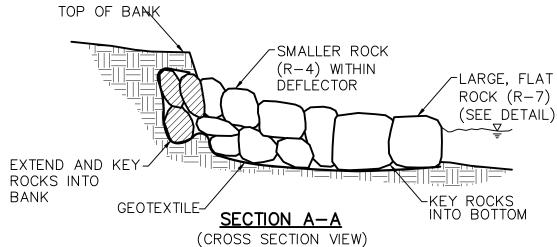




ISOMETRIC VIEW



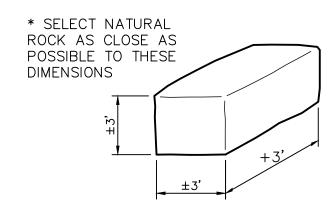
PLAN VIEW



• DEFLECTORS SHOULD BE KEPT LOW, THE TIP EXTENDING NOT MORE THAN 6" ABOVE NORMAL FLOW AT THE TIP AND TAPERING UPWARD AT THE BANK AND INTO THE BANK TO PREVENT THE POSSIBILITY OF WATER WASHING BEHIND THE STRUCTURE.

• THE OUTLINE OF THE DEFLECTOR SHOULD BE ROCKS LARGE ENOUGH THAT HIGH WATER IS NOT APT TO MOVE THEM. THE CENTER CAN BE SMALLER ROCKS BUT THEY SHOULD BE PLACED IN SUCH A MANNER AS TO NOT BE WASHED AWAY EASILY.

ROCK DEFLECTOR DETAIL



STAPLING SPECIFICATIONS:

TERMINAL END

STRUCTURES.

1. USE THIS SIZE ROCK (R-8; QUARRY SHOT ROCK) FOR IN-STREAM STRUCTURES UNLESS OTHERWISE

NOTED. 2. ROCK SHOULD BE HAND SELECTED BY

CONTRACTOR. 3. ROCK SHOULD BE AS BLOCKY AS POSSIBLE TO ALLOW FOR EASIER CONSTRUCTION OF IN-STREAM

DESIRABLE ROCK SIZES FOR IN-STREAM STRUCTURES

SEEDING SPECIFICATIONS

A. SEEDING FOR RIPARIAN BUFFER AREAS RIPARIAN BUFFER MIX (ERNMX-178) % OF MIX LATIN NAME COMMON NAME ANDROPOGON GERARDII BIG BLUESTEM ASCLEPIAS SYRIACA COMMON MILKWEED BAPTISIA AUSTRALIS BLUE FALSE INDIGO CAREX VULPINOIDEA FOX SEDGE CHAMAECRISTA FASCICULATA PARTRIDGE PEA CORNUS AMOMUM SILKY DOGWOOD HELENIUM AUTUMNALE COMMON SNEEZEWEED RIVERBANK WILD RYE ELYMUS RIPARIUS ELYMUS VIRGINICUS VIRGINIA WILD RYE EUPATORIUM FISTULOSUM JOE PYE WEED EUPATORIUM MACULATUM SPOTTED JOE PYE WEED EUPATORIUM PERFOLIATUM BONESET GRASS LEAVED GOLDENROD EUTHAMIA GRAMINFOLIA HELIOPSIS HELIANTHOIDES OX EYE SUNFLOWER JUNCUS EFFUSUS SOFT RUSH MONARDA FISTULOSA WILD BERGAMOT TIOGA DEER TONGUE PANICUM CLANDESTINUM PANICUM VIRGATUM SWITCH GRASS PENSTEMON DIGITALIS TALL WHITE BEARD TONGUE RHUS TYPHINA STAGHORN SUMAC RUDBECKIA HIRTA BLACK EYED SUSAN LITTLE BLUESTEM SCHIZACHYRIUM SCOPARIUM SORGHASTRUM NUTANS INDIAN GRASS VERBENA HASTATA BLUE VERVAIN VERONIA GIGANTEA GIANT IRONWEED VIBURNUM DENTATUM ARROW WOOD 1. SEED THIS MIX AT A RATE OF 15 BULK LBS PER ACRE OR ½ TO ½ LB. PER 1,000 SQ. FT.

2. SEED OATS (AVENA SATIVA) AS A COMPANION CROP AND FOR EROSION CONTROL AT 30 LBS PER ACRE.

B. SEEDING FOR ANY DISTURBED LAWN AREAS COMMERCIAL CONSERVATION MIX (ERNMX-113)

% OF MIX LATIN NAME COMMON NAME FESTUCA RUBRA CREEPING RED FESCUE, "PENNLAWN" LOLIUM MULTIFLORUM ANNUAL RYEGRASS PERENNIAL RYEGRASS, "NOBILITY" LOLIUM PERENNE PERENNIAL RYEGRASS, "AMAZING" LOLIUM PERENNE 1.SEED THIS MIX AT A RATE OF 75-150 BULK LBS PER ACRE.

C. SEEDING FOR ANY DISTURBED PASTURE AREAS

MULTI-FUNCTIONAL NATIVE PASTURE MIX (ERNMX-124) % OF MIX LATIN NAME ANDROPOGON GERARDII BIG BLUESTEM ELYMUS VIRGINICUS VIRGINIA WILDRYE PANICUM VIRGATUM SWITCHGRASS PANICUM AMARUM COASTAL PANICGRASS SORGHASTRUM NUTANS INDIANGRASS CHAMAECRISTA FASCICULATA PARTRIDGE PEA HELIOPSIS HELIANTHOIDES OXEYE SUNFLOWER DESMODIUM CANADENSE SHOWY TICKTREFOIL SILPHIUM PERFOLIATUM CUP PLANT ASTER NOVAE-ANGLIAE NEW ENGLAND ASTER 0.5 PANICLEDLEAF TICKTREFOIL DESMODIUM PANICULATUM MONARDA FISTULOSA WILD BERGAMOT SENNA HEBECARPA WILD SENNA 0.5 SENNA MARILANDICA MARYLAND SENNA PYCNANTHEMUM TENUIFOLIUM NARROWLEAF MOUNTAINMINT 1.SEED THIS MIX AT A RATE OF 10 LBS. PLS PER ACRE.

D. SEEDING FOR ANY DISTURBED WETLAND AREAS

LYCOPUS AMERICANUS

FACW WETLAND MEADOW MIX (ERNMX-122) % OF MIX LATIN NAME FOX SEDGE 30.5 CAREX VULPINOIDEA LURID (SHALLOW) SEDGE CAREX LURIDA ELYMUS VIRGINICUS VIRGINIA WILD RYE SOFT RUSH JUNCUS EFFUSUS BLUE VERVAIN VERBENA HASTATA CAREX SCOPARIA BLUNT BROOM SEDGE ASCLEPIAS INCARNATA SWAMP MILKWEED GOLDEN ALEXANDERS ZIZIA AUREA FOWL MANNAGRASS GLYCERIA STRIATA VERBENA URTICIFOLIA WHITE VERVAIN EUPATORIUM PERFOLIATUM BONESET ONOCLEA SENSIBILIS SENSITIVE FERN ASTER PUNICEUS 0.5 0.5 0.5 PURPLESTEM ASTER CAREX CRINITA FRINGED SEDGE GREAT BLUE LOBELIA LOBELIA SIPHILITICA 0.4 HELENIUM AUTUMNALE COMMON SNEEZEWEED SQUARE STEMMED MONKEYFLOWER 0.4 MIMULUS RINGENS 0.4 SCIRPUS CYPERINUS WOOLGRASS WRINKLELEAF GOLDENROD 0.2 SOLIDAGO RUGOSA

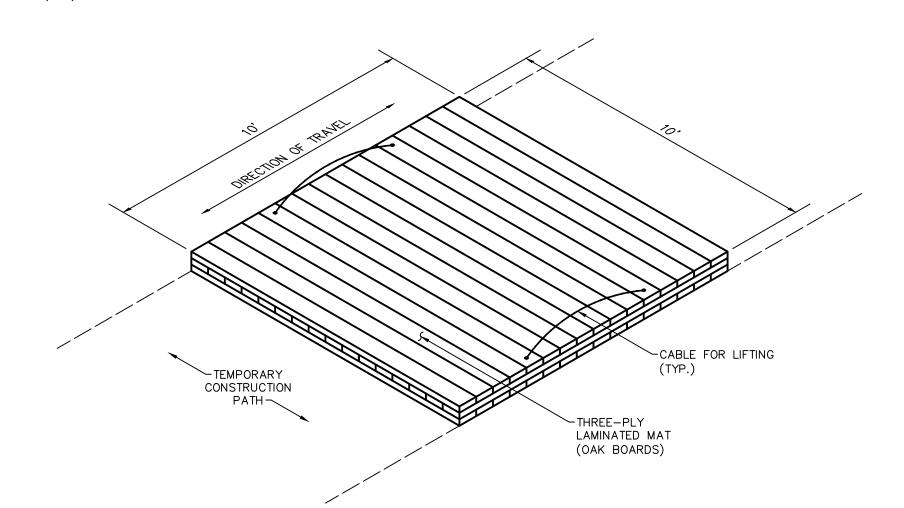
1. SEED THIS MIX AT A RATE OF 20 BULK LBS PER ACRE OR ½ LB. PER 1,000 SQ. FT. 2. SEED GRAIN RYE (1 SEP TO 30 APR) AT 30 LBS. PER ACRE OR JAPANESE MILLET (1 MAY TO 31 AUG) AT 10 LBS. PER ACRE OR BARNYARD GRASS (1 MAY TO 31 AUG) AT 10 LBS. PER ACRE ÀS A COMPANION CROP AND FOR EROSION CONTROL.

AMERICAN WATER HOREHOUND

E. MULCH APPLICATION 1. HAY OR STRAW AT 3 TONS PER ACRE OR 140 LBS PER 1,000 SQ.FT.

PHONE: (800) 873-3321.

1. SEED MIXES ARE AVAILABLE FROM ERNST CONSERVATION SEEDS. 9006 MERCER PIKE, MEADVILLE, PA 16335.



PROTECTIVE MAT NOTE:

1. USE PROTECTIVE MATS OVER ANY WET AREAS (WHEN NEEDED TO PREVENT RUTTING), DRIVEWAYS WHEN METAL TRACKED VEHICLES ARE CROSSING, UTILITY LINES, OR DRAIN PIPES.

PROTECTIVE MAT DETAIL (AS NEEDED)

ISOMETRIC VIEW

NOT TO SCALE

The watershed group and its volunteers will complete the tree and shrub plantings. It is recommended to plant an even mix of tree and shrub species 15' O.C. Tree and shrub plantings may occur Sentember-November or March-May only

occur Se	eptember-November or March-N	lay only.					
	Tree Plantings:						
Trees (4' tall minir	num size) will receive a tree tube	or vinyl tree guard					
Latin Name	Common Name	Indicator Status					
Quercus bicolor	swamp white oak	FACW+					
Salix nigra	black willow	FACW+					
Quercus palustris	pin oak	FACW					
Betula nigra	river birch	FACW					
Betula alleghaniensis	yellow birch	FAC					
Nyssa sylvatica	black gum	FAC					
Acer rubrum	red maple	FAC					
Betula populifolia	gray birch	FAC					
Crataegus phaenopyrum	Washington hawthorn	FAC					
Shrub Plantings:							
Shrubs (2.5' tall minimum size) will not receive a tree tube or vinyl tree guard							
Latin Name	Common Name	Indicator Status					
Ilex verticillata	common winterberry	FACW+					
Spiraea alba	meadow-sweet	FACW+					

speckled alder

silky dogwood

spicebush

red-osier dogwood

highbush blueberry

oblong service-berry

southern arrow-wood

American witch-hazel FAC-

Alnus rugosa

Cornus stolonifera

Cornus amomum

Lindera benzoin

Vaccinium corymbosum

Amelanchier canadensis

Hamamelis virginiana

Viburnum dentatum

FACW+

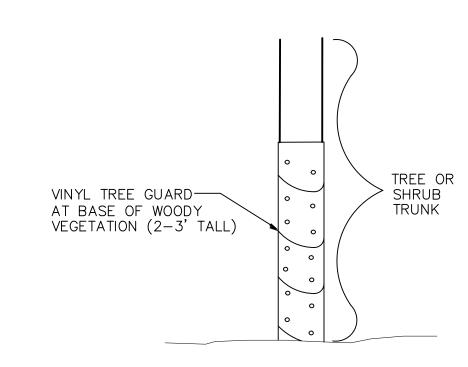
FACW+ **FACW**

FACW-

FACW-

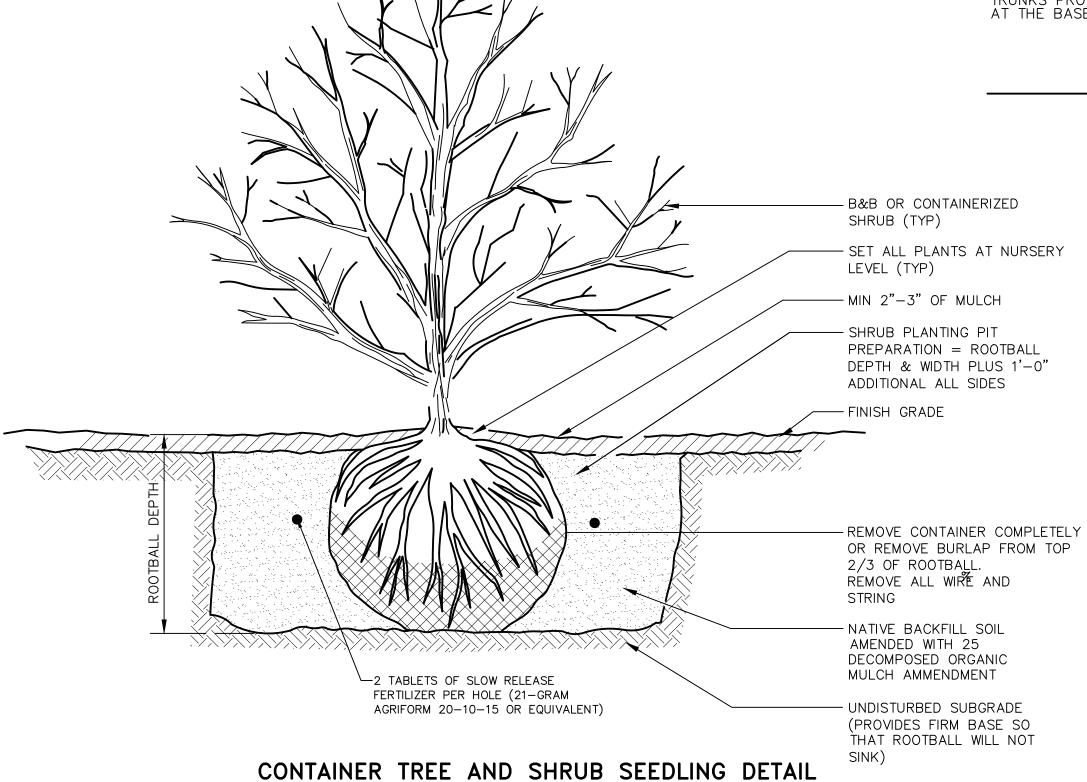
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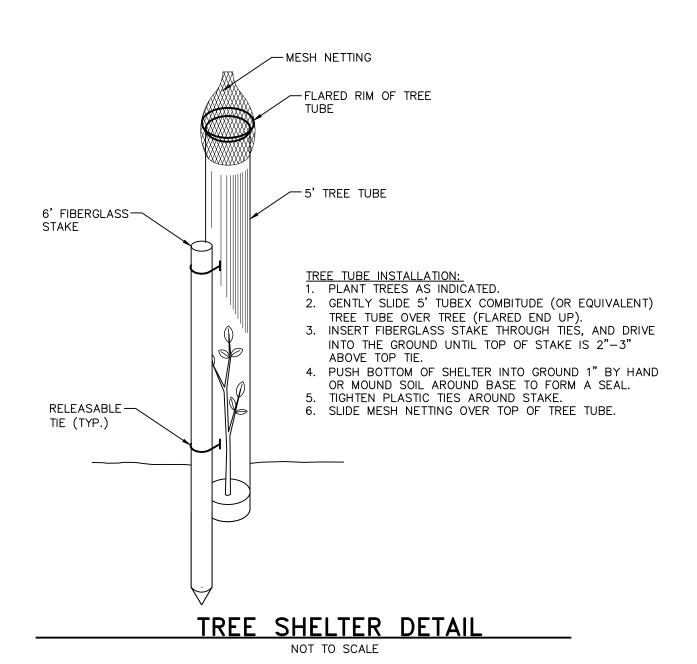


NOTES.
TO PROTECT THE TREES FROM RODENT DAMAGE AND DEER RUBBING THE DECIDUOUS TREES AND SHRUBS THAT ARE PLANTED SHOULD HAVE THEIR TRUNKS PROTECTED WITH A TREE GUARD OF VINYL PLASTIC TREE WRAP AT THE BASE OF THE TREE OR SHRUB GOING UP 2 TO 3—FEET.

VINYL TREE GUARD DETAIL



Cross section Not to scale



IINSTALL TWO ROWS OF LIVE STAKES ON ALL DISTUBED STREAMBANKS (1669 LIVE STAKES TOTAL). THE LIVE STAKES SHOULD BE SPACED 3' APART.

- NOTES:

 OBTAIN NATIVE ADVENTITIOUSLY ROOTABLE STOCK THAT IS COMPRISED OF AT LEAST THREE OF THE FOLLOWING SPECIES: Cornus amomum (Silky Dogwood)
- Physocarpus opulifolius (Ninebark) • Platanus occidentalis (American Sycamore)
- Salix amygdaloides (Peachleaf Willow)
- Salix discolor (Pussy Willow)
- Salix exigua ssp. interior (Sandbar Willow)
- Salix lucida (Shining Willow)
- Salix nigra (Black Willow)
- Salix sericea (Silky Willow)
- Sambucus canadensis (Elderberry)
- Viburnum dentatum (Arrowwood)
- Viburnum lentago (Nannyberry)
- SELECTED MATERIAL SHOULD BE 1/2 TO 1 1/2 INCHES IN DIAMETER AND 2 TO 3 FEET LONG. • MATERIAL SHOULD BE FROM AN AREA WITH SIMILAR SOIL, CLIMATE, AND LOCATION RELATIVE TO THE STREAM. THE

MATERIAL SHALL BE FREE OF DISEASE, ROT, OR INSECT

• MATERIAL SHALL BE HARVESTED WHILE DORMANT AND SOAKED (1 TO 14 DAYS) BEFORE INSTALLATION.

LIVE STAKE DETAIL

REVISIONS LWBRC 25-29 SITE PLANTING DETAILS CLAUSER CLAUSER ENVIRONMENTAL, LLC 1915 LEIBY LANE, KUTZTOWN, PA 19530 (570) 294-0669 www.clauserenvironmental.com DRAWN CHECK 5/19/25 5/19/25 ASC KSC © 2025 CLAUSER ENVIRONMENTAL, LLC SHEET16 OF 16