

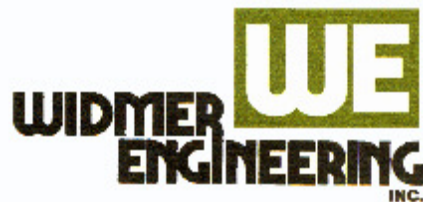
**GREENE COUNTY BOARD OF COMMISSIONERS
93 EAST HIGH STREET
WAYNESBURG, PA 15370**

**FORM OF PROPOSAL, CONTRACT DOCUMENTS
AND TECHNICAL SPECIFICATIONS
FOR
REPLACEMENT OF GREENE COUNTY BRIDGE NO. 103**

**GREENE COUNTY
PENNSYLVANIA**

BIDS DUE: MAY 5, 2026

WEI PROJECT NO. 23076



**WIDMER ENGINEERING INC.
806 Lincoln Place
Beaver Falls, PA 15010
724-847-1696
FAX 724-847-0419
widmerengineering.com**

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ADVERTISEMENT FOR BIDS

Sealed proposals for the “REPLACEMENT OF GREENE COUNTY BRIDGE NO. 103” shall be received by the Greene County Controller’s Office, County Building, 93 East High Street, Waynesburg, PA 15370 until 11:00 AM prevailing time on May 5, 2026. The bid encompasses furnishing labor, materials, and performing all work set forth in the advertisement, general conditions, drawings, and specifications. Bids shall be publicly opened and read aloud at or about 11:00 AM in the Commissioners’ Public Meeting Room on May 5, 2026.

Invitation, preparation, submittal, bidding requirements, all materials furnished and all work shall conform to applicable parts of the contract documents. All materials furnished and all work shall conform to the current specifications of PennDOT Publication 408, Publication 72M, Publication 218M and Publication 219M, latest revisions and appropriate bulletins, except as modified in the contract documents. Contractors and subcontractors must be PennDOT prequalified.

Plans, specifications and bid documents are available only via download from the Widmer Engineering web site at: widmerengineering.com under bids. All questions concerning this solicitation must be sent via email to bridge103@widmerengineering.com no later than (5) five business days prior to the due date.

Each proposal shall be accompanied by either a certified check or Surety Company bid bond in the amount of not less than ten (10%) of the contract amount. The same shall be made payable unto the County of Greene.

Upon successful award of the contract, a 100% performance, 100% payment and 100% maintenance bond shall be required. No bids shall be withdrawn for a period of sixty (60) days after the time set for the opening of bids.

The minimum wage rates for each craft or classification of all workmen needed to perform each contract during the anticipated term hereof shall be governed by State Prevailing Wage Rates.

The Greene County Board of Commissioners reserves the right to reject any part of or all proposals, or to waive any irregularity in the proposal when the Board deems such action advantageous to the County.

Bids, whether mailed or delivered in person, shall be sealed, marked “REPLACEMENT OF GREENE COUNTY BRIDGE NO. 103” and addressed to Greene County Controller’s Office, County Building, 93 East High Street, Waynesburg, PA, 15370.

GREENE COUNTY BOARD OF COMMISSIONERS

Jared Edgreen, Chairman
Betsy McClure, Commissioner
Blair Zimmerman, Commissioner

Advertised on April 5th & 15th.

INSTRUCTIONS TO BIDDERS

1. Scope of Work

Bidders are invited to submit itemized price proposals for furnishing all work shown on the Drawings and described in the Specifications for the following project:

REPLACEMENT OF GREENE COUNTY BRIDGE NO. 103

Replacement of the Greene County Bridge No. 103 over Patterson Creek, with approach roadway work including asphalt pavement, guide rail, signage, and other miscellaneous construction, as indicated on the approved drawings included in the bid package. The proposed project is in Morris Township, Greene County.

The County reserves the right to accept or reject individual Bids and to waive any irregularities and/or any informalities in the Bids or Bidding. This bid proposal is made under, subject to, and governed by: Specifications 408/2020, current edition of the Pennsylvania Department of Transportation.

All questions concerning this solicitation must be sent via email to bridge103@widmerengineering.com no later than (5) five days prior to the due date. All questions and answers will be posted on the widmerengineering.com website only. It is the contractor's responsibility to check the website for questions and answers at appropriate intervals.

2. Bid and Contracts

a. Bids must be sealed and addressed to:

**Greene County Controller's Office
County Building
93 East High Street
Waynesburg, PA 15370**

Identify on the envelope the project for which the bid is being submitted. Each bid must be submitted on the forms furnished to the bidders. Bids submitted after the bid closing time will not be accepted.

b. Contracts: The successful bidder will be required to execute the contract for construction and return the contract accompanied by the Performance Bond, Payment Bond, Maintenance Bond, and Insurance Certificates herein described, within ten (10) calendar days after the documents are presented to him.

c. Corrections: Erasures or other changes in the bid must be explained or noted over the signature of bidder.

- d. **Withdrawal of Bids:** Bids may be withdrawn on written or telegraphic requests received from bidder prior to the time fixed for opening. A bidder may also withdraw their bid providing he does so according to Pennsylvania law.

3. Bid Security

A bid security in an amount equal to at least ten percent (10%) of the bid shall be submitted with each bid. This shall be in the form of a certified check, or bid bond with good and sufficient surety. The payee in any instance shall be:

The County of Greene

Bid securities will be returned to all except the three (3) lowest bidders for the contract immediately after the bid opening and the remaining bid securities will be returned when the executed contract is delivered to the successful bidder.

4. Investigation of Conditions and Errors in Bid

- a. It is required that the bidder visit the site and acquaint themselves with all available information concerning the condition of the site, the availability of labor, and the local conditions having a bearing on the transporting, handling, and storing of materials and equipment.
- b. Bidders or their authorized agents are expected to examine the drawings, specifications, schedules, and all other instructions pertaining to the work which are supplied with this project.
- c. Failure to acquaint himself with all available information concerning the existing conditions will not relieve the successful bidder of the responsibility for estimating the difficulties. Completion of the work consists of successfully performing the work as required, and he cannot secure relief on the pleas of error in their bid.
- d. The **County of Greene** hereinafter referred to as the Owner, reserves the right to waive minor irregularities or minor errors in any proposal, if it appears to the Owner that such irregularities or errors were made through inadvertence. Any such irregularities or errors so waived must be corrected on the proposal in which they occur prior to the execution of any contract which may be awarded thereon.

5. Method of Award or Rejection of Bids

- a. If bids received are determined by the Owner to be satisfactory, contracts will be awarded to the lowest responsible bidders within thirty (30) days after the date of opening proposals.

- b. The contract will be awarded to the lowest responsible bid conforming to the contract documents, whichever is most advantageous to the Owner, price and other factors considered.
- c. Should such successful bidders fail or refuse to execute a contract and to furnish satisfactory contract security within ten (10) days after a written notification of the award of the contract by the Owner, the bidder shall be considered to have abandoned the proposal and the amount of the certified check or other security delivered with the proposal shall thereupon be due and owing to the Owner as liquidated damages for such failure or refusal and the Owner may thereupon award the contract to any other bidder. The term "successful bidder" shall be deemed to include any bidder whose proposal is accepted after another bidder has previously refused or been unable to execute the contract or to furnish satisfactory contract security.
- d. The Owner reserves the right to accept or reject any or all proposals as may be deemed in the best interest of the Owner.

6. Time of Performance

The work to be performed under this Contract shall commence within ten (10) calendar days after the date of "Notice to Proceed" and shall be completed within one hundred ten (110) calendar days thereafter (including shop drawing development\approval and fabrication period). Physical work cannot commence until Shop Drawings have been submitted for review.

7. Federal Occupational Safety and Health Act

The bidders' attention is called to Special Conditions Section of the Specification which concerns compliance with the Federal Occupational Safety and Health Act of 1970.

8. Equal Employment Opportunity

In accordance to Title VII of the Civil Rights Act of 1964, as amended, the contractor shall not discriminate against any employee or applicant for employment because of race, color, religion, sex (including pregnancy), or national origin. The contractor shall take affirmative action to ensure that applicants for employment are employed, and that employees are treated during employment, without regard to their race, color, religion, sex, or national origin. Such action shall include, but not be limited to, the following: employment, upgrading, demotion, or transfer; recruitment or recruitment advertising; layoff or termination; rates of pay or other forms of compensation; and selection for training, including apprenticeship.

The contractor shall post in conspicuous places, available to employees and applicants for employment, notices to be provided by contracting officer setting forth the provisions of this non-discrimination clause. The contractor shall state

that all qualified applicants will receive consideration for employment without regard to race, color, religion, sex, or national origin.

Contractor shall incorporate foregoing requirements in all subcontracts.

9. Permits

GP-11 has been submitted and approved for this project.

10. Subcontracts

The bidder is specifically advised that any person, firm, or other party to whom it is proposed to award a subcontract under this contract must be acceptable to the Owner.

11. Prevailing Wages:

The minimum wage rates for each craft or classification of all workmen needed to perform this contract during the anticipated term hereof shall be governed by the State minimum Wage Schedules. A copy of the Prevailing Wage rates is affixed to these Contract Documents.

12. Citizen Verification on Public Works Contracts:

All public works contractors are required to verify that employees hired post January 1, 2013 are authorized to work in the United States. Contractors must verify eligibility using the attached form.

13. Guarantees

The following guarantees shall be required.

- a. A Performance Bond with good and sufficient surety or sureties for the protection of the Owner, shall be executed in a penal amount of one hundred percent (100%) of the contract price.
- b. A Payment Bond with good and sufficient surety or sureties for the protection of persons furnishing material and labor of the work shall be executed in a penal amount of one hundred percent (100%) of the contract price.
- c. In addition to the contract security noted above, a Maintenance Bond with good and sufficient surety or sureties in a penal amount of One Hundred Percent (100%) of the contract price and shall guarantee against defective or inferior materials or workmanship which may develop during the period of two (2) years from the date of the completion and acceptance of work performed under each contract.

14. Local Authority Contract

The contractor is to name Greene County as additional insured on insurance certificate.

Also, all payments made to the Contractor for work performed will be by Greene County.

Publication 408 wherever references are made to the Commonwealth, the Department or its employees, for the purpose of this contract it will mean the contracting Local Authority and its corresponding employees, unless otherwise superseded by Law.

Contractor and all subcontractors MUST be PennDOT pre-qualified.

All paperwork and documentation must be approved by the District prior to release to final payment.

15. Locally Sponsored Project Payment Process

Invoices for work performed by the Contractor to be submitted to Greene County's Engineer following established estimate dates, the County will pay the invoice and submit to the Department for reimbursement.

The County is required to pay the Contractor all of the approved charges, as applicable, within 30 calendar days.

16. Payment of Retainage to Subcontractors

In the absence of good and sufficient reasons, within 20 days of the receipt of payment, the contractor should pay all subcontractors with whom contracted their earned share of the payment received.

FORM OF PROPOSAL

THE COUNTY OF GREENE
PENNSYLVANIA
FOR
REPLACEMENT OF GREENE COUNTY BRIDGE NO. 103

PROPOSAL OF _____
(hereinafter called "BIDDER") organized and existing under the laws of the State of _____, doing business as a(n) _____, (corporation, partnership, or individual), to the County of Greene (hereinafter called "OWNER"). In compliance with your advertisement for bids, BIDDER hereby proposes to perform all work described within the bid schedule in strict accordance with the time set forth herein, and at the prices stated herein. That herein is a "RESPONSIBLE BIDDER" and having carefully examined the bid documents and project area of the Owner, and being fully informed in regard to the conditions to be met in the work, the undersigned proposes to perform all work related to and covered by the specifications.

BIDDER hereby agrees to perform all the work in the contract documents for the following prices and to hold said bid for a period of sixty (60) days after the opening date.

BIDDER hereby agrees to begin the work to be performed under this Contract shall commence within ten (10) calendar days after the date of "Notice to Proceed" and shall be completed within one hundred ten (110) calendar days thereafter (including shop drawing development/approval and fabrication period). Physical work cannot commence until Shop Drawings have been submitted for review.

If said contract is not substantially completed within the time frame specified, then the BIDDER shall reimburse the OWNER at a rate of \$500.00/day for each calendar day thereafter that said project is not complete, including all punch list items as prepared by the OWNER's representative.

In submitting this bid, the BIDDER understands that the right is reserved by the OWNER to reject any or all bids. If written notice of the acceptance of this bid is mailed, telegraphed or delivered, in writing, to the undersigned within sixty (60) days after the opening thereof, or at any time thereafter before this bid is withdrawn, the undersigned agrees to execute and deliver an agreement in the prescribed form and furnish the required bonds within ten (10) days after the agreement is presented for signature.

Security in the amount of _____

_____ Dollars (\$ _____),

in the form of _____ is submitted herewith in accordance with the INSTRUCTIONS TO BIDDERS.

The Bidder hereby acknowledges receipt of the following issues of addenda, if any, distributed by the engineer.

Addendum No. _____ Date _____

Addendum No. _____ Date _____

Addendum No. _____ Date _____

In submitting this bid, the BIDDER hereby certifies 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 contractor, bidder or potential bidder.
- 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 bid.
- 5) The bidder its affiliates, subsidiaries, officers, directors, and employees are not currently under investigation by any governmental agency and have not, in the last four 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:

The undersigned bidder is prepared to submit a financial and experience statement upon request by the Owner.

(If an individual, partnership, or non-incorporated organization)

Signature of Bidder _____

By _____

Address of Bidder _____

Names and Addresses of Members of firm:

(If a Corporation)

Signature of Bidder _____

By _____

Business Address _____

Incorporated under the laws of the State of _____

Names of Officers:

President _____

Address _____

Secretary _____

Address _____

Treasurer _____

Address _____

The price shall include all labor, material, equipment, overhead, profit, insurance, etc. to cover the finished work.

Items to be submitted with bid:

1. Form of Proposal (indicate receipt of Addendums as applicable)
2. Non-Collusion Affidavits of Prime Bidders and Subcontractors
3. Bid Bond (in the amount of 10% of each bid)

The owner reserves the right to accept or reject all or any part of a bid or to reject all bids.

GREENE COUNTY BRIDGE NO. 103

Item	Description	Quantity	Unit	Unit Price In Figures	Total for Item
0201-0001	CLEARING AND GRUBBING	1	LS		
0203-0001	CLASS 1 EXCAVATION	110	CY		
0208-0001	SPECIAL ROLLING	1	HOUR		
0208-0002	EXCAVATION / BACKFILL / COMPACTION	98	CY		
0212-0014	GEOTEXTILE, CLASS 4, TYPE A	235	SY		
0212-0016	GEOTEXTILE, CLASS 4, TYPE C	214	SY		
0213-0002	TEMPORARY PROJECT AIR POLLUTION CONTROL	2,500	DOLLA		
0313-0323	SUPERPAVE ASPHALT MIXTURE DESIGN, BASE COURSE, PG 64S-22, <0.3 MILLION ESALS, 25.0 MM MIX, 4 1/2" DEPTH	316	SY		
0350-0106	SUBBASE 6" DEPTH (NO. 2A)	510	SY		
0413-0245	SUPERPAVE ASPHALT MIXTURE DESIGN, WEARING COURSE, PG 64S-22, 0.3 TO <3 MILLION ESALS, 9.5 MM MIX, 1 1/2" DEPTH, SRL-L	427	SY		
0460-0001	ASPHALT TACK COAT (NTT/CNTT)	428	SY		
0461-0001	ASPHALT PRIME COAT	83	SY		







GREENE COUNTY BRIDGE NO. 103


Item	Description	Quantity	Unit	Unit Price In Figures	Total for Item
0491-0012	MILLING OF ASPHALT PAVEMENT SURFACE, 1 1/2" DEPTH, MILLED MATERIAL RETAINED BY CONTRACTOR	112	SY		
0515-0001	SAW CUTTING AND SEALING OF ASPHALT OVERLAYS	20	LF		
0608-0001	MOBILIZATION	1	LS		
0620-0400	TERMINAL SECTION, SINGLE	2	EACH		
0620-1600	TYPE 31-S GUIDE RAIL	270	LF		
0620-1650	TYPE 31-STRONG POST END TREATMENT	2	EACH		
0677-0001	SELECTED MATERIAL SURFACING, 4" DEPTH	4	CY		
0686-0050	CONSTRUCTION SURVEYING, TYPE D	1	LS		
0804-0025	SEEDING AND SOIL SUPPLEMENTS - FORMULA B - RESIDENTIAL MIX, INCLUDING MULCH	44	LB		
0804-0032	SEEDING - FORMULA T - TEMPORARY GRASS MIX, INCLUDING MULCH	7	LB		
0806-0113	TEMPORARY SHORT-TERM, ROLLED EROSION CONTROL PRODUCT, TYPE 2D	159	SY		
0811-0003	TEMPORARY PROTECTION FENCE	38	LF		

GREENE COUNTY BRIDGE NO. 103

Item	Description	Quantity	Unit	Unit Price In Figures	Total for Item
0845-0001	UNFORESEEN WATER POLLUTION CONTROL	2,500	DOLLA		
0849-0020	ROCK CONSTRUCTION ENTRANCE WITH WASHRACK	1	EACH		
0855-0003	PUMPED WATER FILTER BAG	1	EACH		
0855-0004	REPLACEMENT PUMPED WATER FILTER BAG	1	EACH		
0867-0012	COMPOST FILTER SOCK, 12" DIAMETER	249	LF		
0901-0001	MAINTENANCE AND PROTECTION OF TRAFFIC DURING CONSTRUCTION	1	LS		
0901-0231	ADDITIONAL WARNING LIGHTS, TYPE B	100	DAY		
0901-0240	ADDITIONAL TRAFFIC CONTROL SIGNS	100	SF		
0931-0001	POST MOUNTED SIGNS, TYPE B	48	SF		
0937-0106	GUIDE RAIL MOUNTED DELINEATOR TYPE B, (W/B)	9	EACH		
0937-0113	GUIDE RAIL MOUNTED DELINEATOR TYPE D, (W/B)	9	EACH		
0971-0001	REMOVE POST MOUNTED SIGNS, TYPE B	6	EACH		

GREENE COUNTY BRIDGE NO. 103

Item	Description		Quantity	Unit	Unit Price In Figures	Total for Item
1018-0001	REMOVAL OF EXISTING BRIDGE 		1	LS		
EITHER	25'-4" X 8'-7" ALUMINUM STRUCTURAL PLATE BOX CULVERT - STRUCTURE AS DESIGNED, L-591 		1	LS		
8603-0001						
OR	PRECAST CONCRETE BOX CULVERT 					
8510-0001						
9000-0001	TEMPORARY STREAM DIVERSION 		1	LS		
9000-0002	REPAIR OF ACCESS ROAD 		20,000	DOLLA		
9000-0003	TEMPORARY FENCE 		328	LF		
TOTAL BID AMOUNT: (print or type amount using numerical figures)						

 Special Provison

SUBCONTRACTORS

- | | Name & Address | Project Responsibility |
|----|----------------|------------------------|
| 1. | | |
| 2. | | |
| 3. | | |
| 4. | | |
| 5. | | |

Signature

Company

Name (Printed)

Address

Title

Witness of Signature

Telephone Number

MUST BE PENNDOT PREQUALIFIED

NON-COLLUSION AFFIDAVIT OF PRIME BIDDER

State of _____

SS:

County of _____

_____ being first duly sworn according to law,
deposes and says as follows:

- (1) The said bidder is _____ of _____, the bidder that has submitted the attached bid;
- (2) The said bidder is fully informed respecting the preparation and contents of the attached bid and of all pertinent circumstances respecting such bid;
- (3) Such bid is genuine and is not a collusive or sham bid;
- (4) Neither the said bidder nor any of its officers, partners, owners, agents, representatives, employees or parties in interest, including this affidavit, has in any way colluded, conspired, connived, or agreed, directly or indirectly, with any other bidder, firm or person to submit a collusive or sham bid in connection with the contract for which the attached bid has been submitted or to refrain from bidding in connection with such contract, or has in any manner, directly or indirectly, sought by agreement or collusion or communication or conference with any other bidder, firm or person to fix the price or prices in the attached bid or of any other bidder, or, to fix any overhead profit or cost element of the bid price of the bid price of any other bidder, or to secure through any collusion, conspiracy, connivance or unlawful agreement, any advantage against the **County of Greene**, or any person interested in the proposed contract; and
- (5) The price or prices quoted in the attached bid are fair and proper and are not tainted by any collusion, conspiracy, connivance or unlawful agreement on the part of the bidder of any of its agents, representatives, owners, employees, or parties in interest, including this affidavit.

By _____

Bidder

Sworn to and subscribed before me this _____ day of _____, 20____.

Notary Public
My commission expires: _____

NON-COLLUSION AFFIDAVIT OF SUBCONTRACTOR

State of _____

SS:

County of _____

_____ being first duly sworn according to law, deposes and says that:

- (1) The (Owner, partner, officer, representative, or agent of _____ hereinafter referred to as the "Subcontractor";
- (2) The Subcontractor is fully informed respecting the preparation and contents of the Subcontractor's Proposal submitted the subcontractor to _____, the Contractor for certain work in connection with the _____ Contract pertaining to the Project in _____ (City or County and State).
- (3) Such subcontractor's proposal is genuine and is not a collusive or sham proposal;
- (4) Neither the subcontractor nor any of its officers, partners, owners, agents, representatives, employees or parties in interest, including this affidavit, has in any way colluded, conspired, connived, or agreed, directly or indirectly, with any other bidder, firm or person to fix the price or prices in said subcontractor's Proposal, or to secure through collusion, conspiracy connivance, or unlawful agreement any advantage against the **County of Greene** or any person interested in the proposed contract; and
- (5) The price or prices quoted in the subcontractor's proposal are fair and proper and are not tainted by any collusion, conspiracy, connivance or unlawful agreement on the part of the bidder of any of its agents, representatives, owners, employees, or parties in interest, including this affidavit.

Title

Sworn to and subscribed before me this _____ day of _____, 20__.

Notary Public

My commission expires: _____

BID BOND

KNOW ALL MEN BY THESE PRESENTS, that we, _____

_____ as Principal, and _____

_____, as Surety are held and firmly bound

unto the **Greene County, County Building, 93 East High Street, Waynesburg, PA**

15370 (hereinafter called the Owner), in the sum of _____

_____ Dollars (\$_____)

lawful money of the United States, for the payment of which sum well and truly to be made, we bind ourselves, our heirs, executors, administrators and successors, jointly and severally firmly by these presents.

THE CONDITION OF THIS OBLIGATION IS SUCH, that whereas the Principal has submitted the accompanying bid, dated _____, 20__ for: REPLACEMENT OF GREENE COUNTY BRIDGE NO. 103

NOW THEREFORE, if the Principal shall not withdraw said bid within the period specified therein after the opening of the same, or, if no period be specified, within sixty (60) days after said opening, and shall within ten (10) days after the prescribed forms are presented to him for signature, enter into a written contract with the Owner in accordance with the bid accepted, and give bond with good and sufficient surety, as may be required, for the faithful performance and proper fulfillment of such contract, or in the event of the withdrawal of said bid within the period specified, or the failure to enter such contract and give such bond within the time specified, if the Principal or their Surety shall pay the Owner ten percent (10%) of the amount specified in said bid as liquidated damages, then the above obligation shall be void and of no effect, otherwise to remain in full force and virtue.

IN WITNESS WHEREOF, the above bounden parties have executed this instrument under their several seals this _____ day of _____, 20__, the name and corporate seal of each corporate party being hereto affixed and these presents duly signed by its undersigned representative, pursuant to authority of its governing body.

IN PRESENCE OF:

(Individual Principal) _____(SEAL)

(Address) _____(Business Address)

(Individual Principal) _____(SEAL)

(Address) _____(Business Address)

ATTEST:

(Corporate Principal)

(Business Address)

By: _____
(AFFIX CORPORATE SEAL)

(Corporate Surety)

WITNESS:

(Corporate Surety)

(Business Address)

(Power-of-Attorney) for person signing for surety company must be attached to bond.

AGREEMENT

THIS AGREEMENT, made this _____ day of _____, 20____, by and between the **County of Greene**, hereinafter referred to as the "OWNER", a County under the Commonwealth of Pennsylvania, and _____
_____ (A Corporation existing under the laws of the State of _____) (A Partnership consisting of _____)(A Individual trading as _____) located in _____ the State of _____ hereinafter referred to as the "CONTRACTOR".

WITNESSETH, that the parties hereto mutually agree as follows:

ARTICLE 1 - CONTRACT DOCUMENTS

The Contract Documents consist of this Agreement, Condition of the Contract (General and Special), Drawings, Specifications, all Addenda issued prior to execution of this Agreement, and all Modifications issued subsequent thereto. These form the Contract and all are as fully a part of the Contract as if attached to this Agreement or repeated herein. An enumeration of the Contract Documents appears in Article 8.

ARTICLE 2 - THE WORK

The Contractor shall perform all the work required by the Contract Documents for:
REPLACEMENT OF GREENE COUNTY BRIDGE NO. 103

ARTICLE 3 - THE ENGINEER

The Engineer for this project is:

WIDMER ENGINEERING INC.
806 Lincoln Place
Beaver Falls, PA 15010
724-847-1696

ARTICLE 4 - CONTRACT SUM

The Owner shall pay the Contractor for the performance of the work included under this Contract subject to additions and deductions provided herein, in current funds, as follows:

The aggregate for the amounts determined by applying the bid prices submitted on the proposal to the actual quantities, the estimated amount being _____ (\$ _____).

ARTICLE 5 - TIME OF COMMENCEMENT AND COMPLETION

The work to be performed under this Contract shall commence within ten (10) calendar days after the date of "Notice to Proceed" and shall be completed within one hundred ten (110) calendar days thereafter (including shop drawing development\approval and

fabrication period). Physical work cannot commence until the Demolition Plan has been submitted for review and approved.

ARTICLE 6 - PROGRESS PAYMENTS

Based upon application for payment submitted to the Engineer by the Contractor and payment estimates issued by the Engineer, the Owner shall make progress payments on account of the Contract Sum to the contractor as provided in the conditions of the Contract as follows:

On or about the first day of each month, ninety percent (90%) of the proportion of the Contract Sum properly allocated to labor, materials, and equipment incorporated in the work and ninety percent (90%) of the portion of the Contract Sum properly allocable to materials and equipment suitably stored at the site or at some other location agreed upon in writing by the parties, less the aggregate of previous payment in each case; and upon substantial completion of the entire work, a sum sufficient to increase the total payments to one hundred percent (100%) of the Contract Sum, less incomplete work and unsettled claims.

ARTICLE 7 - FINAL PAYMENT

Upon the completion of all work required by the Contract, the Engineer shall submit a Project Completion Certificate with the Owner. Within thirty (30) days after filing of such Certificates and a final payment estimate issued by the Engineer, the Owner shall pay the Contractor the full Contract Sum, less all prior payments. All prior payments including those related to Change Orders shall be subject to correction by the final payment.

ARTICLE 8 - MISCELLANEOUS PROVISION

8.1 Terms used in this Agreement which are defined in the General Conditions of the Contract shall have the meanings designated in those General Conditions.

8.2 The Contract Documents, which constitute the entire Agreement between the Owner and the Contractor, except for Modifications issued after execution of this Agreement, are enumerated as follows:

Advertisement for Bids	General Instruction for Bonds
Instructions to Bidders	Performance Bond
Form of Proposal	Payment Bond
Subcontractors	Maintenance Bond
Non Collusion Affidavit of Prime Bidder	Affidavit Re: Workmen's Compensation
Non Collusion Affidavit of Subcontractor	Affidavit Re: Non-Discrimination
Bid Bond	Certificate of Insurance
Agreement	Prevailing Wage Rates
Corporate Certificate	Public Works Employment Verification Form
Partnership Certificate	Special Conditions / Special Provisions
No Lien Agreement	Permit
	Drawings

IN WITNESS WHEREOF, the parties hereto have executed this Agreement in three (3) duplicate counterparts, each of which shall be considered as an original, as of the day and year first above written.

WITNESS:

CONTRACTOR:

By: _____

Title: _____

WITNESS:

SEAL

COUNTY OF GREENE

Jared Edgreen
Chairman

CORPORATE CERTIFICATE

I, _____, certify that I am the Secretary of the Corporation named as Contractor in the foregoing Instrument; that _____ who signed the said Instrument on behalf of the Contractor was then _____ of said Corporation; that said Contract was duly signed for and in behalf of said Corporation by authority of its governing body, and is within the scope of its corporate power.

(Corporate Seal)

PARTNERSHIP CERTIFICATE

State of _____

SS

County of _____

On this _____ day of _____ 20____, before me personally appeared _____, known to me and known by me to be the person who executed the above instrument, who being by me first duly sworn, did depose and say that he is a general partner in the firm of _____; and that said firm consists of himself and _____ that he executed the foregoing instrument on behalf of said firm for the uses and purposes stated herein.

Notary Public

My Commission Expires: _____

NO LIEN AGREEMENT

WHEREAS

entered into an agreement with the **County of Greene, County Building, 93 East High Street, Waynesburg, PA 15370** to provide materials and perform labor for all operations in connection with the REPLACEMENT OF GREENE COUNTY BRIDGE NO. 103

NOW THEREFORE, it is hereby stipulated and agreed by and between the said parties, as part of the said Contract and for the consideration therein set forth, that neither the undersigned Contractor, any subcontractor or materialman, nor any other person furnishing labor or materials to the said Contractor under this Contract shall file a lien, commonly called a mechanic's lien, for work done or materials furnished to the said building or any part thereof, or to the grounds adjacent thereto.

This stipulation is made and intended to be filed with the County Prothonotary within ten (10) days after date, in accordance with the requirements of Assembly of Pennsylvania, in such case provided.

IN WITNESS WHEREOF, the said parties hereto have hereunder set their hands and seals this _____ day of _____ 20____.

County of Greene

WITNESS:

Jared Edgreen
Chairman of Commissioners

CONTRACTOR:

WITNESS:

BY _____

TITLE _____

GENERAL INSTRUCTIONS FOR BONDS

1. The "Bid Bond" form shall be used for the protection of the Owner in receiving bids. There shall be no deviation from this form.
2. The "Performance Bond" form shall be used for construction work on the furnishing of supplies whenever a bond is required. There shall be no deviation from this form.
3. The "Payment Bond" Form, for the protection of persons supplying labor and material, shall be used on all contracts where such bond is required. This bond shall provide that every person, co-partnership, association or corporation who, whether as subcontractors or otherwise, has furnished material or supplied or performed labor in the prosecution of the work, as above provided, and who has not been paid therefore, may sue in assumpsit on said bond, the name of the Owner, for this, their or its use, and prosecute the same to final judgment for such sum or sums as may be justly due him, them or it, and have execution thereon, but the Owner shall not be liable for the payment of any costs or expense of any suit. There shall be no deviation from this form.
4. The "Maintenance Bond" form for the protection of the Owner shall be used on all contracts where such bond is required. There shall be no deviation from this form.
5. The surety on each bond must be a responsible surety company, which is qualified to do business in Pennsylvania and satisfactory to the Owner.
6. If the principals are partners, their individual names will appear in the body of the bond, with the recital that they are partners composing a firm, naming it, and all the members of the firm shall execute the bond as individuals.
7. If the principals are partners, their individual names will appear in the appropriate place, attesting the signature of each individual party to the bond.
8. If the principal or surety is a corporation, the name of the state in which incorporated shall be inserted in the appropriate place in the body of the bond, and said instrument shall be executed and attested under the corporate seal, as indicated in the form. If the corporation has no corporate seal, the fact shall be stated, in which case a scroll or adhesive seal shall appear following the corporate name.
9. The official character and authority of the person or persons executing the bond for the principal, if a corporation, shall be certified by the secretary or assistant secretary, according to the form attached thereto. In lieu of such certificate, there may be attached to the bond, copies of so much of the records of the corporation as will show the official character and authority of the officer signing, duly certified by the secretary or assistant secretary, under the corporate seal, to be true copies.
10. The date of this bond must not be prior to the date of the contract in connection with it is given.

PERFORMANCE BOND

KNOW ALL MEN BY THESE PRESENTS, that we _____

_____ as Principal, and _____

_____ as Surety, are held and firmly

bound unto the **County of Greene, County Building, 93 East High Street,**

Waynesburg, PA 15370 (hereinafter called the Obligee,) in the full and just sum of

_____ Dollars

(\$_____), lawful money of the United States, for payment of which sum well

and truly to be made, we bind ourselves, our heirs, administrators, executors, successors,

and assigns, jointly and severally, firmly by these presents:

WHEREAS said Principal has entered into a certain contract with said Obligee dated _____, 20____ (hereinafter called the Contract) for:

REPLACEMENT OF GREENE COUNTY BRIDGE NO. 103

which contract and the specifications for said work shall be deemed a part hereof as fully as if set out herein.

NOW, THEREFORE, THE CONDITION OF THIS OBLIGATION IS SUCH, that if the Principal shall faithfully perform the contract on their part at the time and in the manner therein provided including any and all warranties and representations of the Principal set forth in said contract, and satisfy all claims and demands incurred in or for the same, or growing out of the same, or for injury or damage to persons or property in the performance thereof, and shall fully identify and save harmless the said Obligee from any and all cost and damage which the said Obligee may suffer by reason of failure to do so, and shall fully reimburse and repay the said Obligee any and all outlay and expense which it may incur by reason of any such default, then this obligation shall be null and void; otherwise it shall remain in full force and virtue.

The said surety, for value received, hereby stipulates and agrees that no change, extension of time, alteration or addition to the terms of the contract or to the work to be performed thereunder of the specifications accompanying the same shall in any way affect its obligations or bond, and it does hereby waive notice of any such change, extension of time, alteration or addition to the terms of the contract or to the work or to the

specifications.

Signed, sealed, and delivered in three (3) counterparts this

_____ day of _____, 20____,

(Individual Principals Sign Here)

_____(Seal)

_____(Seal)

In the presence of:

_____(Seal)

_____(Seal)

(Corporate Principals Sign Here)

ATTEST: _____

(Surety Sign Here)

(Performance Bond)

PAYMENT BOND

KNOW ALL MEN BY THESE PRESENTS: that _____
(Name of Contractor)

(Address of Contractor)

a _____, hereinafter called
(Corporation, Partnership, or Individual)

Principal, a _____
(Name of Surety)

(Address of Surety)

hereinafter called Surety, and held and firmly bound unto the **County of Greene, County Building, 93 East High Street, Waynesburg, PA 15370** hereinafter called OWNER, in the penal sum of _____ dollars, (\$_____) in lawful money of the United States, for the payment of which sum well and truly to be made, we bind ourselves, successors, and assigns, jointly and severally, firmly by these presents.

WHEREAS, the Principal entered into a certain contract with the OWNER dated the _____ day of _____, 20____, a copy of which is hereto attached and made a part hereof for the: REPLACEMENT OF GREENE COUNTY BRIDGE NO. 103

NOW, THEREFORE, if the Principal shall promptly make payment to all persons, firms, SUBCONTRACTORS, and corporations, furnishing materials, for or performing labor in the prosecution of the WORK provided for in such contract, and any authorized extension or modification thereof, including all amounts due for materials, lubricants, oil, gasoline, coal, and coke, repairs on machinery, equipment and tools, consumed or used in connection with the construction of such WORK, and all insurance premiums on said WORK, and for all labor, performed in such WORK whether by SUBCONTRACTOR or otherwise, then this obligation shall be void; otherwise to remain in full force and effect.

PROVIDED, FURTHER, that the said Surety for value received hereby stipulates and agrees that no change, extension of time, alteration or addition to the terms of the contract or to the WORK to be performed thereunder or the SPECIFICATIONS accompanying the same shall in any wise affect its obligation on this BOND, and it does hereby waive notice of any such change, extension of time, alteration or addition of the terms of the contract or to the WORK or to the SPECIFICATIONS.

PROVIDED, FURTHER, that no final settlement between the OWNER and the CONTRACTOR shall abridge the right of any beneficiary hereunder, whose claim may be unsatisfied.

IN WITNESS WHEREOF, this instrument is executed in three (3) counterparts, each one of which shall be deemed an original, this the _____ day of _____, 20__.

ATTEST:

Principal

(Principal) Secretary

By: _____

(SEAL)

Witness as to Principal

Address

Address Surety

ATTEST:

(Surety) Secretary

(SEAL)

By: _____

Witness as to Surety

Attorney-in-fact

Address

Address

NOTE: Date of BOND must not be prior to date of Contract. If CONTRACTOR is Partnership, all partners should execute BOND.

IMPORTANT: Surety companies executing BONDS must appear on the Treasury Department's most current list (Circular 570 as amended) and be authorized to transact business in the state where the PROJECT is located.

(Payment Bond)

MAINTENANCE BOND

KNOW ALL MEN BY THESE PRESENTS, that we _____

_____ as Principal, and

_____ as Surety, are held and firmly bound
unto the

County of Greene, County Building, 93 East High Street, Waynesburg, PA 15370
(hereinafter called the Obligee), in the sum of _____

_____ Dollars \$ _____),
or the final amount of the contract including all change order and modifications for payment of
which sum well and truly to be made, we bind ourselves, our heirs, administrators, executors,
successors, and assigns, jointly and severally, firmly by these presents:

THE CONDITION OF THIS OBLIGATION IS SUCH WHEREAS that, said Principal has
entered into a certain contract, hereto attached, with the Owner dated _____
_____, 20___ for: REPLACEMENT OF GREENE COUNTY BRIDGE NO. 103

NOW, THEREFORE, if the Principal shall remedy without cost to the Obligee any
defects which develop during a period of two years from the date of completion and
acceptance of the work performed under said contract provided such defects, in the judgment
of the Obligee or their successor having jurisdiction in the premises, are caused by defective,
inferior materials or workmanship, then this obligation shall be void; otherwise it shall remain
in full force and virtue.

IN WITNESS WHEREOF, the above-bounden parties have executed this instrument
under their several seals this _____ day of _____, 20___, the
name and corporate seal of each corporate party being hereto affixed and these presented
duly signed by its undersigned representative, pursuant to authority of its governing body.

IN THE PRESENCE OF:

(Individual Principal) _____(SEAL)

(Address) _____(Business Address)

(Individual Principal) _____(SEAL)

(Address) _____(Business Address)

ATTEST: _____
(Corporate Principal)

(Business Address)

By: _____
(Affix Corporate Seal)

(Corporate Surety)

WITNESS: _____
(Corporate Surety)

(Business Address)

By: _____
(Affix Corporate Seal)

The rate of premium on this bond is _____ per thousand. Total amount of premium charged, \$_____. (The above must be filled in by Corporate Surety.)

(Maintenance Bond)

AFFIDAVIT RE

ACCEPTING PROVISIONS OF THE WORKMEN'S COMPENSATION ACT

State of _____

SS:

County of _____

(Name of Officer, if corp.)

(Title of Officer, if corp.)

(Name of Contractor)

being duly sworn according to law deposed and says that they have accepted the provisions of the Workmen's Compensation Act of 1915 of the Commonwealth of Pennsylvania, with its supplements and amendments, and have insured their liability thereunder in accordance with the terms of said Act with _____
_____ Company.

(Contractor)

Signature of Officer or Agent

SWORN to and subscribed before me this _____ day of

_____, 20_____.

(Notary Public)

My Commission Expires:

REQUIRED INSURANCE

- A. Workmen's Compensation Insurance..... Statutory
- B. Comprehensive Bodily Injury Liability Insurance \$1,000,000
- C. Comprehensive Property Damage Liability Insurance..... \$1,000,000
- D. Comprehensive Automobile Bodily Injury and Property Damage Insurance
 - (1) Personal Injury..... \$1,000,000
 - (2) Property Damage..... \$1,000,000

NOTE: Owner and Widmer Engineering Inc. to be named as additional insured on everything except Workmen's Compensation.

GENERAL CONDITIONS INDEX

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GENERAL CONDITIONS

1. Definitions

The following terms, as used in these contract documents are respectively defined as follows:

- a. "Additional Work" The term "additional work" as used herein, refers to and includes work required by the Owner, which involves changes or alterations.

- b. "Changes and Alterations" The terms "changes and alterations" as used herein mean deviations from the Plans, Specifications, and Addenda in their present form, but only when ordered by the Owner or Engineer in writing, prior to the performance of any work affected by such changes or alterations. Increases or decreases in estimated quantities shall not be considered changes or alterations for any purpose whatsoever.

- c. "Contractor" The party designated as such in the agreement, acting directly or through agents, or employees or the surety in case of default.

- d. "Owner" **County of Greene**

- e. "Engineer" The term "Engineer" shall mean the Professional Architectural/ Engineering firm or representative chosen by the Owner to provide professional services for the project.

Nothing contained in this contract shall create any contractual relationship between the engineer and the contractor.

- f. "Notice" Where in any of the contract documents there is any provision in respect to the giving of any notice, such notice shall be deemed to have been given to the Owner, when written notice shall be delivered to the Owner, or shall have been placed in the United States Mails, sent certified or registered mail, postage prepaid, addressed to the chief executive officer of the Owner at the place where the bids or proposals for the contract were opened; as to the contractor, when a written notice shall be delivered to the chief representative of the

contractor at the site of the project or by sending by certified or registered mail, postage prepaid, such written notice in the United States Mails addressed to the contractor at the place stated in the papers prepared by him to accompany their proposal as the address of their permanent place of business.

- g. "Specifications" The directions, provisions, and requirements contained herein, or in any of the contract documents pertaining to the method and manner of performing the work or to the method of measurement and the quality of materials to be furnished under the contract.
- h. "Subcontractor" Any person, firm or corporation undertaking the construction of a part of the work under the terms of the contract, by virtue of a separate agreement with the contractor, or with any other subcontractor.
- i. "Surety" The corporate body which is bound with and for the contractor for the satisfactory performance and maintenance of the work by him and the prompt payment in full for utility services, labor, equipment rental and materials as provided in the bonds.
- j. "Work" The term "work" as used herein, refers to any and all obligations, duties, and responsibilities necessary to the completion of the project assigned or undertaken by the contractor, including all plant, labor, materials, supplies, equipment, and other facilities, and things necessary or proper for or incidental to the carrying out and completion of the terms of this contract.

2. Specification Titles

Titles to sections and paragraphs in these contract documents are introduced merely for convenience and shall not be taken as part of the specifications, and furthermore, shall not be taken as a correct or complete segregation of the several units of material and labor. The sections and paragraphs shall not control the contractor in dividing the work among subcontractors.

3. Approval and Acceptance

Approval and acceptance in these specifications shall mean approval and acceptance by the Engineer, but no acceptance by the Engineer shall bind the

Owner in case of proven defective work or other clear violations of the contract; nor will approval of material or equipment before same is brought on the premises by held to constitute acceptance, in case such items are found not to comply with specification requirements.

4. Special Conditions Take Precedence

The Special Conditions and/or special notes on the drawings may supplement or amend the General Conditions; therefore, the Special Conditions and/or special notes on the drawings shall take precedence over these General Conditions.

5. Provisions Required By Law Deemed Inserted

Each and every provision of law and clause required by law to be inserted in this contract shall be deemed to be inserted herein and the contract shall be read and enforced as though it were included herein, and if through mistake or otherwise any such provision is not inserted, or is not correctly inserted, upon application of either party, the contract shall forthwith be then physically amended to make such insertions.

6. Contract Security

The contractor shall furnish a surety bond in an amount at least equal to one hundred percent (100%) of the contract price as security for the faithful performance of this contract. The contractor shall also furnish a separate surety bond in an amount equal to one hundred percent (100%) of the contract price for the protection of clients supplying labor or materials to the contractor or to any of their subcontractors, in the prosecution of the work, and shall be continued for the prompt payment of all such material furnish or labor supplied or performed in the prosecution of the work.

7. Additional Bonds

Should any surety upon any bonds become unsatisfactory to the Owner, or if for any reasons any bond shall cease to be adequate security to the Owner, the contractor shall within five (5) days after notice from the Owner, furnish such additional bonds as may be required from time to time to protect the interest of the Owner and of persons, firms, or corporations supplying labor, material, equipment or services in the prosecution of the work contemplated by the contract. The additional bonds required shall be with other sureties as may be satisfactory to the Owner. The premiums on such additional bonds shall be paid by the contractor. No further payments shall be deemed due, nor shall further payments be made until the required additional bonds have been furnished by the contractor and approved by the Owner.

8. Insurance

The contractor shall not commence work under this contract until he has obtained all insurance required under this paragraph and such insurance has been approved by the Owner, nor shall the contractor allow any subcontractor to commence work in their subcontract until all similar insurance required of the subcontractor has been obtained.

The contractor shall be responsible for all injury to persons, or damage to property, either directly or indirectly, that may result from their operations. The contractor shall obtain and pay for such insurance as will protect him from claims under the Workmen's Compensation Act and from any other claims for damages for personal injury, including death, or for damages to property, either real or personal, which may arise from operations under this contract, whether such operations by himself or by anyone directly or indirectly employed by him. The contractor shall effect and maintain the following insurance in companies or through agents:

- a. "Workmen's Compensation Insurance" including Employer's Liability Insurance in accordance with the laws of the State of Pennsylvania. Employer's Liability Insurance shall have a limit of not less than \$1,000,000.00.
- b. "Comprehensive Bodily Injury Liability Insurance" not less than One Million Dollars (\$1,000,000.00).
- c. "Comprehensive Property Damage Liability Insurance" not less than One Million Dollars (\$1,000,000.00).
- d. "Comprehensive Automobile Bodily Injury and Property Damage Insurance" not less than One Million Dollars limits (\$1,000,000.00) for personal injury and One Million Dollars limit (\$1,000,000.00) for property damage. This insurance shall cover all automotive vehicles owned or hired by the contractor and used on this contract, not otherwise so covered by insurance. Automatic coverage shall be provided for extensions of the contract.
- e. "Contractual Insurance."
- f. "Completed Operations Insurance."
- g. "XCU Hazards Insurance."

The contractor shall deliver to the Owner before commencing work under this contract, certificates from insurance companies or their agents, certifying that such insurance is in effect and will not be cancelled during the conduct of the work without thirty (30) days written notice to the Owner. The contractor shall report and pay all Old Age Benefit and Social Security Taxes and other insurance as required by State and Federal laws.

9. Subletting or Assigning of Contracts

The contractor shall not sublet, assign, sell, transfer, or otherwise dispose of this contract or any part hereof or any interest herein or any monies due or to become due hereunder without the prior written consent of the Owner. The consent to any subletting, assignment, or transfer shall not operate to relieve the contractor or their sureties of any of their or its obligations under this contract. Nothing contained herein shall be construed to hinder, prevent or affect an assignment of monies due or to become due hereunder made for the benefit of the contractor's creditors pursuant to law.

10. Subcontractors

The contractor shall notify the Owner in writing of the names of all subcontractors proposed for the work and the extent and character of the work to be done by each subcontractor. No subcontractor shall be permitted to perform any work on the project unless and until the Owner has notified the contractor in writing that such subcontractor has been approved. If requested by the Owner, the contractor shall supply proof that the proposed subcontractor is particularly equipped and capable to perform such work. Proof of qualifications and capability of proposed subcontractors shall include the following:

- a. A financial statement certified by its accountants.
- b. A list of contracts successfully and satisfactorily carried to completion on work of a similar nature.
- c. A list of contracts presently underway, the percentage of completion of each contract and the name and address of the Owner.
- d. A list of equipment for the work.

Subcontract work shall not begin until approval has been secured from the Owner. It is understood, however, that any approval by the Owner for the subcontracting of any of the work under the contract in no way relieves the contractor from their full obligations under the contract. The contractor shall be responsible for all the acts or omissions of any subcontractor or supplier and shall be liable for all damages caused by the acts or omissions of any subcontractor or supplier.

Subletting by subcontractors shall be subject to the same conditions as aforesaid. Nothing contained in this contract shall create any contractual relation between the subcontractor and the Owner.

11. Subcontracts

The applicable provisions of the contract shall be incorporated into each subcontract entered into by this contractor. All subcontractors MUST be PennDOT prequalified.

12. Copies of Drawings Furnished

Unless otherwise provided in the contract documents, the Owner will furnish to the contractor, free of charge, up to three (3) copies of drawings and specifications for the execution of the work. If any additional copies are required, they shall be supplied by the Owner at the cost of printing.

13. Specifications and Drawings

- a. Interpret As Complete Work. The contractor shall keep on the work site a copy of the drawings and specifications, and the engineer shall at all times have access thereto. Anything mentioned in the specifications and not shown on the drawings, or shown on the drawings and not mentioned in the specifications,

shall be of like effect as if shown and mentioned in both. In case of difference between the drawings or specifications, the specifications shall govern. Omissions from the drawings or specifications or of details or work which are manifestly necessary to carry out the intent of the drawings and specifications or which are customarily performed shall not relieve the contractor from performing such omitted details of work but they shall be performed as if fully set forth and described in the drawings and specifications.

- b. Checking of Drawings and Dimensions. The contractor shall check all drawings furnished him immediately upon their receipt and shall promptly request of the engineer such interpretation and clarification as may be required. Figures marked down on drawings shall in general be followed in preference to scale measurements. Large scale drawings shall in general govern small scale drawings. The contractor shall compare all drawings and verify the figures before laying out the work and will be responsible for any errors which might have been avoided thereby. When measurements are affected by conditions already established, the contractor shall take measurements notwithstanding the giving of scale or figure dimensions in the drawings.
 - c. Deviations. Deviations from the drawings and the dimensions therein given shall be made only after written authority is obtained from the engineer. Prior to issuing written authority allowing any deviation, the engineer must obtain the Owner's concurrence.
 - d. Interpretation and Instructions. All questions regarding the figures, drawings, plans, and specifications and the interpretation of thereof and the resolving of conflicts and inconsistencies therein shall be determined by the engineer and such determination shall be final.
14. Ownership of Drawings
All drawings, specifications, and copies thereof furnished to the contractor by the engineer are the property of the Owner and are to be returned to the Owner on request at the completion of the work.
15. Work in Inclement Weather
All work which cannot be properly protected must cease during inclement weather. The engineer shall be the sole judge as to the adequacy of protective measures taken by the contractor.
16. Inspection of Work
a. Defective Workmanship or Material. All Material and workmanship (if not otherwise designated by the specifications) shall be subject to inspection, examination, and test by the Owner's representatives at any and all times during manufacture and/or construction are carried on. The Owner shall have the right to reject defective material and workmanship or require its correction. Rejected workmanship shall be satisfactorily corrected, and rejected material shall be satisfactorily replaced with proper material without charge therefore, and the

contractor shall promptly segregate and remove the rejected material from the project. The contractor shall bear all costs of correcting rejected work, including the cost of the engineer's additional services thereby made necessary. If the contractor fails to proceed at once with the replacement of rejected material and/or the correction of defective workmanship, the Owner may, by contract or otherwise, replace such material and/or correct such workmanship and charge the cost thereof to the contractor, or may terminate the right of the contractor to proceed as provided in these General Conditions, the contractor and surety being liable for any damage to the same extent as provided elsewhere in these General Conditions for termination thereunder.

- b. Tests. The contractor shall furnish promptly, without additional charge, all reasonable facilities, labor, and materials necessary for the safe and convenient inspection and test that may be required by the engineer. All inspection and tests shall be performed in such a manner as to not unnecessarily delay the work. Special, full size, and performance tests shall be as described in the specifications.
- c. Final Inspection. Should it be considered necessary or advisable by the Owner at any time before final acceptance of the entire work to make an examination of work already completed, by removing or tearing out same, the contractor shall on request promptly furnish all necessary facilities, labor, and material. If such work is found to be defective in any material respect, the contractor will bear all expenses of such examination and of satisfactory reconstruction. If, however, such work is found to meet the requirements of the contract, the contractor will be allowed payment on a "force account" basis in accordance with Section 36 of these General Conditions, and he shall, in addition, if completion of the work has been delayed thereby, be granted a suitable extension of time on account of the additional work involved.

17. Standard of Quality

Whenever in these specifications an equipment item, article or material is defined by describing a proprietary project or by using a trade name of a manufacturer or vendor, the term "or equal" if not inserted therewith shall be assumed as signifying that the specifications will be interpreted liberally, except that on projects which are an addition to an existing facility, system, equipment, item or article, the engineer shall specify, when in their opinion such is necessary for reasons of compatibility and standardization, specific equipment, item, article, or material by a trade name of a manufacturer or vendor including catalog number, size, and type. Accordingly, it is to be understood that any reference to a particular manufacturer's product either by name or by limiting description, except as noted herein, has been made solely for the purpose of more clearly indicating the minimum standard of quality desired. Any other make, except as noted herein, substantially similar and performing as effectively the duties imposed by the general design, performance and space allowed by the plans may be submitted for approval by the engineer provided, however, for any major substitutions, such approval is obtained prior to awarding the contract, otherwise it shall be assumed that the contractor will furnish

the materials, articles, or equipment items specified herein. No substitution shall be made without the written approval of the engineer who shall be the judge of the standard of quality.

18. Labor, Materials, and Equipment

- a. Unless otherwise stipulated, the contractor shall provide and pay for all materials, labor, water, tools, equipment, light, power, transportation, and other facilities necessary for the execution and completion of the work.
- b. Unless otherwise specified, all materials and equipment shall be new and both workmanship and materials shall be of good quality. The contractor, shall, if required, furnish satisfactory evidence as to the kind and quality of materials and equipment.

19. Samples and Descriptive Data

- a. Any samples and descriptive data required shall:

- (1) Be submitted within the time specified in these specifications, or if a time is not specified, within a reasonable time before use to permit inspection and testing.
- (2) Be shipped prepaid and delivered as specified in these specifications, or as directed by the engineer.
- (3) Be properly marked to show the name of the material, trade name of manufacturer, place of origin, name and location of the work where the material represented by the sample is to be used, and the name of the contractor submitting the sample.
- (4) Be checked and stamped with the approval of the contractor.

- b. Samples not subjected to destructive tests may be retained until completion of the work but thereafter will be returned to the contractor, at their expense, if he so requests in writing. Failure of any sample to pass the specified requirements will be sufficient cause for refusal to consider further any samples from the same manufacturer whose materials failed to pass the tests.

20. Proof of Compliance With Specifications

When testing of any material or product is not specified as a responsibility of the Owner, satisfactory proof of compliance with the specifications shall be submitted by one or more of the following methods. Where testing of any material or product is a responsibility of the Owner, satisfactory proof of compliance with the specifications be submitted in accordance with method (a) or (b) below, before a sample will be tested. The method of proof of compliance shall be subject to the approval of the engineer, and all costs thereof shall be at the expense of the contractor unless otherwise specified.

- a. Manufacturer's Certificate of Compliance: In the case of standard labeled stock products of standard manufacture which has a record of satisfactory performance in similar work over a period of not less than two (2) years, the engineer may accept a notarized statement from the manufacturer certifying that the product conforms to the applicable specifications.
- b. Mill Certificates: For materials where such practice is the usual standard, the engineer may accept the manufacturers' certified mill and laboratory certificate.
- c. Testing Laboratory Certification: The engineer may accept a certificate from a commercial testing laboratory satisfactory to him certifying that it has tested the product submitted within a period acceptable to the engineer and that the product conforms to the requirements of the specifications.
- d. Report of Actual Laboratory Tests: The engineer may require that the contractor make actual tests of any material, product or end item and submit a report of the specific tests. Such tests shall be made by a commercial testing laboratory approved by the engineer. Test samples shall be selected by or under the supervision of the engineer. The method of testing shall comply with the method specified or, when not specified, with a standard approved method. Certified copies in quadruplicate, of the results of the tests, shall be submitted to the engineer for approval and in such form as he may direct. The results of tests in the required form shall be submitted well in advance of the time when the material or product shall be used in the work.
- e. Re-testing: Where testing is specified herein to be performed by the Owner, the Owner will perform the testing or will have the testing performed at a commercial laboratory at the expense of the Owner. Where items or additional samples from items which have been previously testing and approved at the expense of the Owner are required to be re-tested, the Owner will bear the costs of such re-testing. Where re-testing is required because of the failure of previously tested samples, the expense of all such re-testing shall be borne by the contractor at no expense to the Owner. The contractor shall pay for all additional re-testing required due to subsequent test failures. Where so required for original testing, re-testing will be performed at such laboratories as may be approved by the engineer.

21. Superintendence, Supervision

The contractor shall keep on their work, during its progress, a competent superintendent satisfactory to the Owner. The superintendent shall not be changed without written notice to the Owner except in an emergency. The contractor's superintendent shall have authority to act for the contractor in all matters concerning the work. All communications given to the superintendent shall be binding on the contractor.

22. Engineer's Authority

The engineer is the Owner's representative during the performance of the work. He shall at all times have access to the work wherever it is in preparation and progress.

The engineer will make periodic visits to the site and, to observe the progress of construction and the quality of the work and to determine in general if the work is proceeding in accordance with the contract documents.

The engineer will not be required to make exhaustive or continuous on-site inspections to check the quality or quantity of the work. The engineer will not be responsible for the construction means, methods, techniques, sequences, or production or for safety precautions and programs in connection with the work and he will not be responsible for the contractor's failure to carry out the work in accordance with the contract documents.

The engineer shall render a decision on all questions and disputes submitted to him in writing relating to the execution and progress of the work or the interpretation of the contract documents. Either the Owner or the contractor may demand arbitration of any such matter, notwithstanding the decision of the engineer.

The engineer's authority to act under this Section or any other provision of the contract documents, shall not give rise to any duty or responsibility of the engineer to the contractor or any subcontractor.

23. Protection of Persons and Property

a. The contractor shall be responsible for initiating, maintaining the supervising of all safety precautions and programs in connection with the work. The contractor shall take all reasonable precautions for the safety of, and shall provide all reasonable protection to prevent damage, injury or loss to (i) employees, (ii) all other persons who may be affected, (iii) the work and all materials and equipment to be incorporated, (iv) other property at the site or in the vicinity thereof.

b. The contractor shall comply with all applicable laws, ordinances, rules, regulations, and orders of any public authority having jurisdiction for the safety of persons or property or to protect them from damage, injury or loss. He shall erect and maintain, as required by existing conditions and progress of the work, all reasonable safeguards for safety and protection including posting danger signs and other warnings against hazards, promulgating safety regulations, and notifying owners and users of adjacent utilities.

24. Royalties and Patents

The contractor shall pay all royalties and license fees. He shall defend all suits or claims for infringement of any patent rights and shall save the Owner and engineer harmless from all loss, expense, and damage including attorneys' fees, on account thereof, except the Owner shall be responsible for all such loss when a particular process or the product of a particular manufacturer or manufacturers is specified; but if the contractor has information that the process or article specified is an

infringement of a patent, he shall be responsible for such loss unless he promptly gives notice to the Owner and engineer.

25. Permits and Regulations

a. Permits, licenses, and all certificates for inspection that may be required by the authorities for each contractor's particular work shall be secured and paid for by the contractor unless specified otherwise in the SPECIAL CONDITIONS.

b. The contractor shall give all notices and comply with all laws, ordinances, rules, and regulations bearing on the conduct of the work as drawn and specified. If the contractor observes that the drawings and specifications are at variance therewith, he shall promptly notify the engineer in writing, and any necessary changes shall be adjusted. If the contractor performs any work knowing it to be contrary to such laws, ordinances, rules or regulations, and without such notice to the engineer, he shall bear all costs arising there from and shall save the Owner harmless from any fines, or loss arising in connection therewith.

26. Other Contracts

The Owner may award other contracts for additional work, and the contractor shall fully cooperate with such other contractors and carefully fit their own work to that provided under other contracts. The contractor shall not commit or permit any act which will interfere with the performance of work by any other contractor.

If any part of the contractor's work depends for proper execution or results upon the work of any other contractor, the contractor shall inspect and promptly report to the engineer in writing any defects in such work that makes it unsuitable for such proper execution and results. If he fails to so inspect and report such defects, it shall constitute their acceptance of the other contractor's work as fit and proper for the execution of their work, except such defects that may develop in the other contractor's work after the execution of their work.

To insure the execution of their work the contractor shall measure work already in place and shall report at once to the engineer any discrepancy between the executed work and the drawings.

27. Mutual Responsibility of Contractors

If the contractor should cause damage to any separate contractor on the work, the contractor agrees upon due notice to settle with such contractor by agreement or arbitration if he will so settle. If such separate contractor commences arbitration or suit against the Owner on account of any damage alleged to have been so sustained, the Owner shall notify the contractor, who shall defend such proceedings at their own expense and, if any judgment against the Owner shall arise there from, the contractor shall pay or satisfy it and pay all costs incurred by the Owner.

28. Use of Premises (By Contractor)

The contractor shall confine their apparatus, the storage of materials and the operations of their workmen to limits indicated by law, ordinances, permits, or the

contract documents and shall not unreasonably encumber the premises with their materials or equipment.

The contractor shall not load or permit any part of any structure to be loaded with a weight, or cause pressures or stresses that will endanger its safety.

The contractor shall not, at any time, store materials or equipment on any of the existing roadways nor shall he perform any construction operation or work on any of the existing roadways unless it is deemed necessary for construction by the engineer.

The contractor shall conduct their hauling operations in such a manner as not to unduly interfere with traffic. At points where the contractor's equipment or trucks enter, leave or cross existing pavements, he shall erect and maintain suitable signs and warning devices. If the engineer so orders, the contractor shall station flagmen at such points.

29. Responsibility and Risk

The contractor shall assume all risk and bear any loss or injury to property or persons occasioned by neglect or accident during the progress of work, until the same shall have been completed and accepted by the Owner. He shall also assume all blame or loss by reason of neglect or violation of any state law or local ordinance, or encroachment upon neighbors. He shall make good any injury that may have occurred to any adjoining building in consequence of the erection of this work or during its progress.

30. Owner's Right to Terminate Contract

If (a) the contractor shall be adjudged bankrupt or make an assignment for the benefit of creditors, or (b) a receiver or liquidator shall be appointed for the contractor or for any of their property and shall not be dismissed within twenty (20) days after such appointment, or the proceeding in connection therewith shall not be stayed on appeal within the said twenty (20) days, or (c) the contractor shall refuse all or fail, to supply enough properly skilled workmen or proper materials, or (d) the contractor shall refuse or fail to prosecute the work or any part thereof with such diligence as will insure its completion within the period herein specified (or any duly authorized extension, thereof) or shall fail to complete the work within said period, or (e) the contractor shall fail to make prompt payment to persons supplying labor or materials for the work, or (f) the contractor shall fail or refuse to regard laws, ordinances or the instructions of the engineer, or otherwise be guilty of a substantial violation of any provision of this contract, then, in any such event, the Owner, without prejudice to any other rights or remedy it may have, within ten (10) days' notice to the contractor, terminate the employment of the contractor and their right to proceed, either as to the entire work or (at the option of the Owner) as to any portion thereof as to which delay shall have occurred, and may take possession of the work and complete the work by contract or otherwise, as the Owner may deem expedient. In such case, the contractor shall not be entitled to receive any further payment until the work is finished. If the unpaid balance of the compensation to be

paid the contractor hereunder shall exceed the expense of so completing the work (including compensation for additional managerial, administrative and inspection services and any damages for delay) such excess shall be paid to the contractor. If such expense shall exceed such unpaid balance, the contractor and their sureties shall be liable to the Owner for such excess.

31. Contractor's Right to Stop Work or Terminate Contract

If the work shall be stopped by order of the Court or any other public authority for a period of ninety (90) days without act or fault of the contractor or any of their agents, servants, employees, or subcontractors, the contractor may, upon ten (10) days' notice to the Owner, terminate the contract, in which event the Owner, shall pay for all work completed and any expense sustained, plus a reasonable profit.

32. Method of Payment

Contract unit prices shall include all labor, materials, equipment, overhead, and profit and shall be the sum total compensation payable for such items of work. Attached to this schedule and as a part thereof shall be a construction schedule which will give the contemplated dates for the start, progress and completion of the major items of work to be performed under this contract.

The contractor shall, between the first and fourth day of each month, submit to the engineer a statement in detail showing the amount of work performed in the preceding month. Approval shall be established to provide an orderly sequence of approval by the engineer and owner of the statement submitted. Approval shall be made on the evaluation of work performed based on the "Schedule of Work" approved by the engineer. Payments shall be made on the basis of ninety percent (90%) of the approved monthly statement.

The Owner may withhold or, on account of subsequently discovered evidence, nullify the whole or a part of any certificate to such extent as may be necessary to protect:

- (a) Defective work not remedied.
- (b) Claims filed, or reasonable evidence indicating probable filing of claims.
- (c) A reasonable doubt that the contract can be completed for the balance then unpaid.
- (d) Failure of the contractor to make payments for replacement of surveys, lines and grades.
- (e) Failure of the contractor to make payments for replacement of surveys, lines, and grades.

Payments shall be made of amounts withheld when the above grounds have been removed.

No certificate given on payment made under this contract, except the final certificate on final payment, shall be conclusive evidence of the performance of this contract, either wholly or in part, and that no payments shall be construed to be an acceptance of defective work or improper materials.

Upon the completion of all work whatsoever required on the contract and after such time as may be required for the engineer to determine final quantities, the engineer shall file a written certificate with the Owner and with the contractor as to the entire amount of work performed and the compensation earned by the contractor, including extra work and compensation therefor.

Within thirty (30) days after the filing of such certificate of completion, the Owner shall pay to the contractor the amount therein stated.

33. Estimates of Quantities

The estimated quantities of work to be done and materials to be furnished under this contract, shown in the contract documents and the proposal, are given only for use in comparing bids and to indicate approximately the total amount of the contract; and the right is especially reserved to increase or diminish them as may be deemed reasonably necessary or desirable by the Owner to complete the work contemplated by this contract, and such increase or diminution shall not give cause for claims of liability for damages. The Owner and the engineer do not expressly or by implication assume any responsibility that the quantities shall obtain strictly in the construction of the project, nor shall the contractor plead misunderstanding or deception because of such estimate of quantities or of the character of the work location or other conditions pertaining thereto.

34. Subsurface Materials - Contractor's Representative

a. General

By executing the contract, the contractor represents that he has visited the site, familiarized himself with the location conditions under which the work is to be performed and correlated their observation with the requirements of the specifications.

b. The contractor further represents that he understands that subsurface information has been obtained for the project for engineering design purposes. This information has also been used in the preparation of estimates of quantities for bidding purposes. However, it is the obligation of the contractor to make their own investigation of subsurface conditions prior to submitting their proposal. The contractor has reviewed all available subsurface information, including but not limited to, boring logs, core recovery, test results and soils reports. The contractor's review has been in great detail through qualified and experienced representatives. The determination of subsurface materials and conditions to be encountered is a matter of judgement and opinion. All of the information available to the Owner and the engineer is available to the contractor upon request.

35. Unexpected Subsurface Conditions

The contractor will promptly notify the Owner and engineer in writing of any subsurface or latent Physical conditions at the site differing materially from those indicated in the contract documents. The engineer will promptly investigate those conditions and advise the Owner in writing if further surveys or subsurface tests are necessary. Promptly thereafter, the Owner will obtain the necessary additional surveys and tests and furnish copies to the engineer and the contractor. If the engineer finds that the results of such surveys or tests indicate subsurface or latent physical condition differing significantly from those indicated in the contract documents, a change order shall be issued incorporating the necessary revisions.

36. Changes and Alterations

- a. The Owner or engineer may make such minor changes in the drawings as are deemed necessary by them to complete more fully the project or any thereof, provided that they are of a character as not to affect materially the cost of the work involved.
- b. The contract documents may be modified and changed from time to time in a manner not materially affecting the substance thereof, if such changes are necessary to carry out and complete the work agreed to be done and performed. In the event the Owner orders a change in the work, and the estimated cost of the work covered by such change, is equal to or greater than twenty-five percent (25%) of the total bid listed in the proposal of the total contract sum set out in the agreement, and if such change materially increases the cost of the work, the increased expense will be paid by the Owner. If such change diminishes the cost of the work, the amount of said diminution may be retained by the owner. No consequent loss or anticipated profit on work not executed will be paid to the contractor.
- c. The contractor shall do such additional work other than that designated by the contract documents as may be ordered in writing by the Owner, to complete fully the work as planned and contemplated. No claim for an addition to the contract sum shall be valid unless so ordered in writing. Where the work is of such character as provided in (a) above, the contractor will receive in full payment for such additional work the unit prices shown in the contract, and in the same manner as if such had been included in the original contract. Any work for which there is no quantity and unit price in the contract, and additional work as provided in (b) above, will be done at a price to be agreed upon previously in writing by the contractor and the engineer and approved by the Owner. Where a unit price or lump sum cannot be agreed upon by both parties or where this method of payment is impracticable, the Owner may order the contractor to do such additional work on a "force-account" basis.
- d. Force-Account Work: All additional work done on a "force-account" basis shall be paid for as follows:

Actual net cost in money to the contractor of the materials and of the wages of applied labor (including premiums for Workmen's Compensation Insurance), required for such changes and alterations, plus such rental for plant and equipment (other than small tools) required and approved for such changes and alterations, plus twenty percent (20%) of the cost of materials and labor as compensation for all other items of profit and costs or expenses, including administration, overhead, superintendence, insurance (other than Workmen's Compensation Insurance), materials used in temporary structures, allowances made by the contractor to the subcontractors, additional premiums upon the Performance Bond of the contractor and use of small tools. The provision hereof shall not affect the power of the contractor to act in case of emergency as herein provided. The Owner shall have the right to examine the books and records of the contractor relative to the cost figures in the work referred to above. Equipment rental rates shall be negotiated prior to the commencement of the work.

37. Owner's Right to Occupy Works

The right to occupy the whole or any portion of the works at any time prior to completion of the contract is reserved by the Owner. In case of said occupation of the works, the contractor shall proceed with the completion of the contract in such a manner as to cause the least possible interference with the Owner's employees, or others having business on the works.

The installation of equipment or work under other contracts shall not be interpreted as occupation of the works.

38. Delays and Extension of Time

If the contractor is delayed at any time in the progress of the work by any of the following, the time of completion shall be extended for a reasonable time:

- a. By any act or neglect of the Owner, its agents or employees.
- b. By any separate contractor employed by the Owner.
- c. By changes ordered in the work.
- d. To unforeseeable cause beyond the control and without the fault of negligence of the contractor including, but not restricted to, acts of God or of the public enemy, fires, floods, epidemics, quarantine restrictions, strikes, freight embargoes and unusually severe weather.
- e. To any delays of subcontractors occasioned by any of the causes specified in the above items (a), (b), (c), and (d).

Any claim for extension of time shall be made in writing to the Owner and engineer within seven (7) days of the occurrence of the event giving rise to the claim.

39. Guarantee of Work

- a. All work shall be guaranteed by the contractor against defects resulting from the use of inferior or defective material, equipment, or workmanship for two (2) years from the date of final completion of the contract, or from full occupancy of the project by the Owner, whichever is earlier.
- b. If, within the guarantee period, repairs or changes are required in connection with guaranteed work rendered necessary as the result of the use of materials, equipment or workmanship which are inferior, defective, or not in accordance with the terms of the contract, the contractor, promptly upon receipt of written notice and without expense to the Owner, shall place in satisfactory condition in every particular all such guaranteed work, correct all defects therein and make good, in a reasonable manner, all damage to the project.
- c. If the contractor, after notice, fails to proceed promptly to comply with the terms of the guarantee, the Owner may have the defects corrected and the contractor shall be liable for all expense incurred.
- d. All work covered by special guarantees applicable to definite parts of the work that may be stipulated in the specifications or other papers forming a part of the contract shall nevertheless be subject to the terms of this section during the life of such special guarantee.

40. Indemnification

The contractor shall indemnify and save harmless the Owner and the engineer and their agents, officers and employees from and against all claims, damages, losses, liability, and expenses including attorney's fees arising out of or resulting from the performance of the project, provided that any such claim, damage, loss, liability or expense (a) is attributable to bodily injury, sickness, disease or death, or to injury to or destruction of tangible property (other than the project itself) including the loss of use resulting therefrom and (b) is caused in whole or in part by any negligent act or omission of the contractor, any subcontractor, anyone directly or indirectly employed by any of them or anyone for whose acts any of them may be liable, regardless of whether or not it is caused in part by a party indemnified hereunder.

In any and all claims against the Owner or the engineer or any of their agents, officers, or employees by any employee of the contractor and subcontractor, anyone directly or indirectly employed by any of them or anyone for whose acts any of them may be liable, the indemnification obligation under this Section shall not be limited in any way by any limitation on the amount or type of damages, compensation or benefits payable by or for the contractor or any subcontractor under Workmen's Compensation Acts, Disability Benefit Acts or other Employee Benefit Acts.

The obligation of the contractor under this Section shall not extend to the liability of the engineer, their agents, officers, or employees arising out of (a) the preparation or approval of maps, drawings, opinions, reports, surveys, change orders, designs,

or specifications or (b) the giving of or the failure to give directions or instructions by the engineer, their agents, officers or employees provided such giving or failure to give is the primary cause of injury or damage.

41. Cleaning Up

The contractor shall at all times keep the premises free from accumulations of waste material or rubbish caused by their employees or work, and at the completion of the work he shall remove all their rubbish from and about the site and all their tools, equipment, and surplus materials and shall leave their work broom-clean or its equivalent, unless more exactly specified. In case of dispute, the Owner may remove the rubbish and charge the cost to the contractor as the engineer shall determine to be just.

42. Uncorrected Work

If the Owner or engineer deems it un-expedient to correct work not done in accordance with the contract, an equitable deduction from the contract price shall be made therefore.

43. Liens

Neither the final payment or any part of the retain percentage shall become due until the contractor, if required, shall deliver to the owner a complete release of all liens arising out of this contract, or receipts in full in lieu thereof and, if required in either case, an affidavit that so far as he has knowledge or information the releases and receipts include all the labor and material for which a lien could be filed; but the contractor may, if any subcontractor refuses to furnish a release or receipt in full, furnish a bond satisfactory to the Owner, to indemnify him against any lien. If any lien remain unsatisfied after all payments are made, the contractor shall refund to the Owner all monies that the latter may be compelled to pay in discharging such a lien, including all costs and a reasonable attorney's fee.

44. Contractor's Claim

Neither the contractor nor the surety shall be entitled to present any claim or claims to the Owner either during the prosecution of the work or upon completion of the contract, for additional compensation for any work performed which was not covered by the approved drawings, specifications, and/or contract, or for any other cause, unless he shall give the Owner due notice of their intention to present such claims as hereinafter designated.

The written notice, as above required, must have been given to the Owner, with a copy to the engineer, prior to the time the contractor shall have performed such work or that portion thereof giving rise to the claim or claims for additional compensation; or shall have been given within ten (10) days from the date the contractor was prevented, either directly or indirectly by the Owner or their authorized representative, from performing any work provided by the contract, or within ten (10) days from the happening of the event, thing, or occurrence giving rise to the alleged claim.

45. Arbitration

All claims, disputes, and other matters in question arising out of, or relating to, this contract or the breach thereof except for claims which have been waived by final payment in accordance with Section 46, shall be decided by arbitration. This agreement to arbitrate shall be enforceable.

The Board of Arbitrators shall consist of three (3) members. Each party shall appoint one arbitrator and shall advise the other party thereof in writing, sent by registered mail. Thereafter, a third member shall be selected by the two so appointed.

The arbitrators shall proceed with diligence to hear the matter and the parties shall have a full opportunity to present testimony. The award shall be made by the arbitrators, or a majority of them, and shall be binding upon the parties, subject to appeal to the courts as provided by the laws of Pennsylvania.

The arbitrators shall fix their own compensation, unless otherwise provided by agreement, and shall assess the costs and charges of the proceedings upon either or both parties.

The contractor will carry on the work and maintain the progress scheduled during any arbitration proceedings unless otherwise agreed by the parties in writing.

46. Acceptance of Final Payment Constitutes Release

The acceptance by the contractor of the final payment shall be and shall operate as a release to the Owner of all claims and of all liability to the contractor for all things done or furnished in connection with this work and for every act and neglect of the Owner and others relating to or arising out of this work, excepting the contractor's claims for interest upon the Final Payment, if this payment is improperly delayed. No payment, however final or otherwise, shall operate to release the contractor or their sureties from any obligation under this contract or the performance bond. All paperwork and documentation must be approved by the District prior to release to final payment.

47. No Waiver of Legal Rights

The Owner or the engineer shall not be precluded or stopped by any erroneous measurements, estimate or certificate, made or given by them, or any agent or employee of the Owner or engineer, under any provision or provisions of the contract at any time, either before or after the completion and acceptance of the work and payment therefore, from showing the true and correct amount and character of the work performed and materials furnished by the contractor, or from showing at any time that any such measurement, estimate, or certificate is untrue or incorrectly made in any particular, or that the work or materials, or any part thereof do not conform in fact to the specifications and contract. The Owner shall have the right to reject the whole or any part of the work or materials, should any measurements, estimates, certificate, or payment be found or be known to be inconsistent with the terms of the contract, or otherwise improperly given. The

Owner shall not be precluded or stopped notwithstanding any such measurement, estimated, certificate, or payment in accordance therewith, from demanding and recovering from the contractor and/or their surety such damage as it may sustain by reason of their failure to comply with the terms of the specifications and contract, or on account of any overpayment or overpayments made on any estimate or certificate. Neither the acceptance of the Owner, the engineer, or any agent or employee of the Owner or engineer, nor any estimate or certificate by the engineer, for any payment of money, nor any payment for, nor acceptance of the whole or any part of the work by the Owner or engineer, nor any extension or remission of time, nor any possession taken by the Owner or ties employees, shall operate as a waiver of any portion of the contract of any power herein reserved by the Owner, or any right to damages herein provided, nor shall any waiver of any breach of the contract be held to be a waiver of any other or subsequent breach.

48. Liquidated Damages

The Contractor agrees that side work shall be prosecuted regularly, diligently, and uninterruptedly at such rate of progress as will insure completion thereof within the time specified. It is expressly understood and agreed, by and between the Contractor and Owner that this time for the completion of the work described herein is reasonable, taking into consideration the average climatic conditions prevailing in this locality.

If the said Contractor shall neglect, fail or refuse to complete the work within the time herein specified, then the Contractor does hereby agree, as a part consideration for the awarding of this Contract, to pay to the Owner the amount of \$500.00 per day, not as a penalty but as a liquidated damages for such breach of Contract, for each and every consecutive calendar day, including Saturdays, Sundays, and Holidays, that the Contractor shall be in default after time stipulated in the contract.

**BUREAU OF LABOR LAW COMPLIANCE
PREVAILING WAGES PROJECT RATES**

Project Name:	Greene County Bridge No. 103
General Description:	Replacement of County Bridge No. 103
Project Locality	Morris Township, Greene County
Awarding Agency:	Greene County Commissioners
Contract Award Date:	5/5/2026
Serial Number:	26-03153
Project Classification:	Heavy/Highway
Determination Date:	3/31/2026
Assigned Field Office:	Pittsburgh
Field Office Phone Number:	(412)565-5300
Toll Free Phone Number:	(877)504-8354
Project County:	Greene County

**BUREAU OF LABOR LAW COMPLIANCE
PREVAILING WAGES PROJECT RATES**

Project: 26-03153 - Building	Effective Date	Expiration Date	Hourly Rate	Fringe Benefits	Total
Asbestos & Insulation Workers	8/1/2024		\$43.40	\$29.51	\$72.91
Asbestos & Insulation Workers	8/1/2025		\$45.10	\$30.31	\$75.41
Boilermakers	6/1/2016		\$40.90	\$27.61	\$68.51
Bricklayer	6/1/2025		\$41.50	\$25.22	\$66.72
Bricklayer	12/1/2025		\$42.00	\$25.72	\$67.72
Carpenters - Piledriver/Welder	1/1/2025		\$43.38	\$22.72	\$66.10
Carpenters - Piledriver/Welder	1/1/2026		\$44.63	\$23.47	\$68.10
Carpenters, Drywall Hangers, Framers, Instrument Men, Lathers, Soft Floor Layers	6/1/2024		\$41.49	\$19.93	\$61.42
Carpenters, Drywall Hangers, Framers, Instrument Men, Lathers, Soft Floor Layers	6/1/2025		\$43.34	\$19.93	\$63.27
Cement Masons	7/1/2024		\$34.57	\$25.09	\$59.66
Cement Masons	6/1/2025		\$35.52	\$25.64	\$61.16
Drywall Finisher	1/1/2025		\$34.01	\$24.63	\$58.64
Drywall Finisher	6/1/2025		\$35.16	\$25.98	\$61.14
Electricians & Telecommunications Installation Technician	12/27/2024		\$50.86	\$32.69	\$83.55
Electricians & Telecommunications Installation Technician	12/26/2025		\$53.11	\$33.72	\$86.83
Elevator Constructor	1/1/2025		\$61.07	\$40.05	\$101.12
Elevator Constructor	1/1/2026		\$63.71	\$40.89	\$104.60
Glazier	9/1/2024		\$37.06	\$31.89	\$68.95
Glazier	9/1/2025		\$38.70	\$33.75	\$72.45
Iron Workers	6/1/2024		\$39.89	\$36.47	\$76.36
Iron Workers	6/1/2025		\$41.50	\$37.36	\$78.86
Laborers (Class 01 - See notes)	1/1/2024		\$26.82	\$19.46	\$46.28
Laborers (Class 01 - See notes)	1/1/2025		\$27.32	\$19.96	\$47.28
Laborers (Class 01 - See notes)	1/1/2026		\$27.82	\$20.46	\$48.28
Laborers (Class 02 - See notes)	1/1/2024		\$26.97	\$19.46	\$46.43
Laborers (Class 02 - See notes)	1/1/2025		\$27.47	\$19.96	\$47.43
Laborers (Class 02 - See notes)	1/1/2026		\$27.97	\$20.46	\$48.43
Laborers (Class 03 - See notes)	1/1/2024		\$29.97	\$19.46	\$49.43
Laborers (Class 03 - See notes)	1/1/2025		\$30.47	\$19.96	\$50.43
Laborers (Class 03 - See notes)	1/1/2026		\$30.97	\$20.46	\$51.43
Landscape Laborer (Skilled)	1/1/2025		\$25.79	\$18.78	\$44.57
Landscape Laborer (Skilled)	1/1/2026		\$26.79	\$19.03	\$45.82
Landscape Laborer (Tractor Operator)	1/1/2025		\$26.09	\$18.78	\$44.87
Landscape Laborer (Tractor Operator)	1/1/2026		\$27.09	\$19.03	\$46.12
Landscape Laborer	1/1/2025		\$25.37	\$18.78	\$44.15
Landscape Laborer	1/1/2026		\$26.37	\$19.03	\$45.40
Millwright	6/1/2020		\$41.68	\$20.32	\$62.00
Operators (Class 01 - see notes)	6/1/2024		\$41.69	\$24.39	\$66.08
Operators (Class 01 - see notes)	6/1/2025		\$42.72	\$24.79	\$67.51
Operators (Class 01 - see notes)	6/1/2026		\$43.74	\$25.29	\$69.03
Operators (Class 02 -see notes)	6/1/2024		\$35.62	\$24.39	\$60.01
Operators (Class 02 -see notes)	6/1/2025		\$36.67	\$24.79	\$61.46

**BUREAU OF LABOR LAW COMPLIANCE
PREVAILING WAGES PROJECT RATES**

Project: 26-03153 - Building	Effective Date	Expiration Date	Hourly Rate	Fringe Benefits	Total
Operators (Class 02 -see notes)	6/1/2026		\$37.67	\$25.29	\$62.96
Operators (Class 03 - See notes)	6/1/2024		\$32.83	\$24.39	\$57.22
Operators (Class 03 - See notes)	6/1/2025		\$33.88	\$24.79	\$58.67
Operators (Class 03 - See notes)	6/1/2026		\$34.88	\$25.29	\$60.17
Painters Class 6 (see notes)	6/1/2024		\$32.14	\$24.93	\$57.07
Painters Class 6 (see notes)	6/1/2025		\$34.16	\$25.81	\$59.97
Pile Driver Divers (Building, Heavy, Highway)	1/1/2025		\$62.82	\$22.72	\$85.54
Pile Driver Divers (Building, Heavy, Highway)	1/1/2026		\$64.70	\$23.47	\$88.17
Piledrivers	1/1/2025		\$41.88	\$22.72	\$64.60
Piledrivers	1/1/2026		\$43.13	\$23.47	\$66.60
Plasterers	6/1/2024		\$33.14	\$21.04	\$54.18
plumber	6/1/2025		\$54.95	\$25.87	\$80.82
plumber	6/1/2026		\$58.05	\$25.87	\$83.92
plumber	6/1/2027		\$61.15	\$25.87	\$87.02
Plumbers and Steamfitters	6/1/2025		\$41.47	\$27.71	\$69.18
Plumbers and Steamfitters	6/1/2026		\$42.92	\$28.45	\$71.37
Pointers, Caulkers, Cleaners	6/1/2025		\$40.66	\$21.99	\$62.65
Pointers, Caulkers, Cleaners	12/1/2025		\$41.50	\$22.50	\$64.00
Roofers	6/1/2025		\$39.91	\$20.76	\$60.67
Roofers	12/1/2025		\$41.21	\$21.46	\$62.67
Sheet Metal Workers	7/1/2024		\$43.00	\$33.96	\$76.96
Sheet Metal Workers	7/1/2025		\$45.00	\$35.16	\$80.16
Sign Makers and Hangars	7/15/2024		\$32.32	\$25.82	\$58.14
Sign Makers and Hangars	7/15/2025		\$33.48	\$26.41	\$59.89
Sprinklerfitters	4/1/2024		\$46.45	\$28.62	\$75.07
Sprinklerfitters	4/1/2025		\$49.75	\$29.21	\$78.96
Steamfitters	6/1/2024		\$48.15	\$29.57	\$77.72
Steamfitters	6/1/2025		\$50.20	\$31.02	\$81.22
Stone Masons	12/1/2022		\$38.56	\$23.61	\$62.17
Terrazzo Finisher	6/1/2025		\$41.73	\$19.03	\$60.76
Terrazzo Finisher	12/1/2025		\$42.75	\$19.51	\$62.26
Terrazzo Mechanics	6/1/2025		\$41.13	\$21.28	\$62.41
Terrazzo Mechanics	12/1/2025		\$42.15	\$21.76	\$63.91
Tile Finisher	6/1/2025		\$33.24	\$18.36	\$51.60
Tile Finisher	12/1/2025		\$33.99	\$18.71	\$52.70
Tile Setter	6/1/2025		\$40.15	\$22.80	\$62.95
Tile Setter	12/1/2025		\$40.80	\$23.25	\$64.05
Truckdriver class 1(see notes)	1/1/2025		\$36.43	\$23.21	\$59.64
Truckdriver class 1(see notes)	1/1/2026		\$37.93	\$23.71	\$61.64
Truckdriver class 2 (see notes)	1/1/2025		\$36.89	\$23.52	\$60.41
Truckdriver class 2 (see notes)	1/1/2026		\$38.39	\$24.02	\$62.41
Window Film / Tint Installer	10/1/2019		\$25.00	\$2.63	\$27.63

**BUREAU OF LABOR LAW COMPLIANCE
PREVAILING WAGES PROJECT RATES**

Project: 26-03153 - Heavy/Highway	Effective Date	Expiration Date	Hourly Rate	Fringe Benefits	Total
Carpenter	1/1/2025		\$41.35	\$22.09	\$63.44
Carpenter	1/1/2026		\$42.60	\$22.84	\$65.44
Carpenter Welder	1/1/2025		\$42.85	\$22.09	\$64.94
Carpenter Welder	1/1/2026		\$44.10	\$22.84	\$66.94
Carpenters - Piledriver/Welder	1/1/2025		\$43.38	\$22.72	\$66.10
Carpenters - Piledriver/Welder	1/1/2026		\$44.63	\$23.47	\$68.10
Cement Finishers	1/1/2024		\$35.14	\$26.30	\$61.44
Cement Finishers	1/1/2025		\$35.94	\$27.50	\$63.44
Cement Masons	1/1/2020		\$32.84	\$21.10	\$53.94
Electric Lineman	6/3/2024		\$53.97	\$31.05	\$85.02
Electric Lineman	6/2/2025		\$57.10	\$31.63	\$88.73
Iron Workers (Bridge, Structural Steel, Ornamental, Precast, Reinforcing)	6/1/2025		\$41.50	\$37.36	\$78.86
Laborers (Class 01 - See notes)	1/1/2025		\$33.70	\$26.00	\$59.70
Laborers (Class 01 - See notes)	1/1/2026		\$34.70	\$27.00	\$61.70
Laborers (Class 02 - See notes)	1/1/2025		\$33.86	\$26.00	\$59.86
Laborers (Class 02 - See notes)	1/1/2026		\$34.86	\$27.00	\$61.86
Laborers (Class 03 - See notes)	1/1/2025		\$34.25	\$26.00	\$60.25
Laborers (Class 03 - See notes)	1/1/2026		\$35.25	\$27.00	\$62.25
Laborers (Class 04 - See notes)	1/1/2025		\$34.70	\$26.00	\$60.70
Laborers (Class 04 - See notes)	1/1/2026		\$35.70	\$27.00	\$62.70
Laborers (Class 05 - See notes)	1/1/2025		\$35.11	\$26.00	\$61.11
Laborers (Class 05 - See notes)	1/1/2026		\$36.11	\$27.00	\$63.11
Laborers (Class 06 - See notes)	1/1/2025		\$31.95	\$26.00	\$57.95
Laborers (Class 06 - See notes)	1/1/2026		\$32.95	\$27.00	\$59.95
Laborers (Class 07 - See notes)	1/1/2025		\$34.70	\$26.00	\$60.70
Laborers (Class 07 - See notes)	1/1/2026		\$35.70	\$27.00	\$62.70
Laborers (Class 08 - See notes)	1/1/2025		\$36.20	\$26.00	\$62.20
Laborers (Class 08 - See notes)	1/1/2026		\$37.20	\$27.00	\$64.20
Millwright	6/1/2024		\$47.59	\$23.72	\$71.31
Millwright	6/1/2025		\$49.72	\$23.72	\$73.44
Operators (Class 01 - see notes)	1/1/2025		\$40.39	\$24.23	\$64.62
Operators (Class 01 - see notes)	1/1/2026		\$41.96	\$24.66	\$66.62
Operators (Class 02 -see notes)	1/1/2025		\$40.13	\$24.23	\$64.36
Operators (Class 02 -see notes)	1/1/2026		\$41.70	\$24.66	\$66.36
Operators (Class 03 - See notes)	1/1/2025		\$36.48	\$24.23	\$60.71
Operators (Class 03 - See notes)	1/1/2026		\$38.05	\$24.66	\$62.71
Operators (Class 04 - See notes)	1/1/2025		\$36.02	\$24.23	\$60.25
Operators (Class 04 - See notes)	1/1/2026		\$37.59	\$24.66	\$62.25
Operators (Class 05 - See notes)	1/1/2025		\$35.77	\$24.23	\$60.00
Operators (Class 05 - See notes)	1/1/2026		\$37.34	\$24.66	\$62.00
Operators Class 1-A	1/1/2025		\$43.39	\$24.23	\$67.62
Operators Class 1-A	1/1/2026		\$44.96	\$24.66	\$69.62
Operators Class 1-B	1/1/2025		\$42.39	\$24.23	\$66.62
Operators Class 1-B	1/1/2026		\$43.96	\$24.66	\$68.62

**BUREAU OF LABOR LAW COMPLIANCE
PREVAILING WAGES PROJECT RATES**

Project: 26-03153 - Heavy/Highway	Effective Date	Expiration Date	Hourly Rate	Fringe Benefits	Total
Painters Class 1 (see notes)	6/1/2022		\$34.45	\$22.82	\$57.27
Painters Class 2 (see notes)	6/1/2024		\$38.09	\$24.93	\$63.02
Painters Class 2 (see notes)	6/1/2025		\$40.36	\$25.81	\$66.17
Painters Class 3 (see notes)	6/1/2024		\$40.66	\$24.93	\$65.59
Painters Class 3 (see notes)	6/1/2025		\$43.68	\$25.81	\$69.49
Painters Class 4 (see notes)	6/1/2019		\$28.20	\$20.06	\$48.26
Painters Class 5 (see notes)	6/1/2019		\$22.91	\$20.06	\$42.97
Pile Driver Divers (Building, Heavy, Highway)	1/1/2025		\$62.82	\$22.72	\$85.54
Pile Driver Divers (Building, Heavy, Highway)	1/1/2026		\$64.70	\$23.47	\$88.17
Piledrivers	1/1/2025		\$41.88	\$22.72	\$64.60
Piledrivers	1/1/2026		\$43.13	\$23.47	\$66.60
Steamfitters (Heavy and Highway - Gas Distribution)	5/1/2022		\$48.43	\$40.28	\$88.71
Truckdriver class 1(see notes)	1/1/2025		\$36.43	\$23.21	\$59.64
Truckdriver class 1(see notes)	1/1/2026		\$37.93	\$23.71	\$61.64
Truckdriver class 2 (see notes)	1/1/2025		\$36.89	\$23.52	\$60.41
Truckdriver class 2 (see notes)	1/1/2026		\$38.39	\$24.02	\$62.41



COMMONWEALTH OF PENNSYLVANIA

PUBLIC WORKS EMPLOYMENT VERIFICATION FORM

Date _____

Business or Organization Name (Employer) _____

Address _____

City _____ State _____ Zip Code _____

Contractor O

Contracting Public Body _____

Contract/Project No _____

Project Description _____

Project Location _____

As a contractor/subcontractor for the above referenced public works contract, I hereby affirm that as of the above date, our company is in compliance with the Public Works Employment Verification Act ('the Act') through utilization of the federal E-Verify Program (EVP) operated by the United States Department of Homeland Security. To the best of my/our knowledge, all employees hired post January 1, 2013 are authorized to work in the United States.

It is also agreed to that all public works contractors/subcontractors will utilize the federal EVP to verify the employment eligibility of each new hire within five (5) business days of the employee start date throughout the duration of the public works contract. Documentation confirming the use of the federal EVP upon each new hire shall be maintained in the event of an investigation or audit.

I, _____, authorized representative of the company above, attest that the information contained in this verification form is true and correct and understand that the submission of false or misleading information in connection with the above verification shall be subject to sanctions provided by law.

Authorized Representative Signature

SPECIAL CONDITIONS

FEDERAL OCCUPATIONAL SAFETY AND HEALTH ACT

All Contractors shall comply with the Federal Occupational Safety and Health Act of 1970.

Each Contractor and all subcontractors pursuant to the Contract shall at all times comply with all applicable Federal, State and Local laws, provisions, and policies governing Safety and Health, including the Federal Register Chapter XVII, Part 1926 of title 29 code of Federal Regulations, Occupational Safety and Health Regulations for Construction, and all subsequent republications updating these regulations.

Each Contractor and all subcontractors pursuant to the contract shall have the sole responsibility to take any and all needed action as reasonably necessary to protect the life, health, and general occupational welfare of all personnel on the job, as well as the general public in and around the construction site.

TECHNICAL SPECIFICATIONS

For Technical Specification, this project shall be constructed in accordance with PennDOT Publication 408, latest edition, **UNLESS OTHERWISE NOTED OR MODIFIED IN THE CONTRACT DRAWINGS AND SPECIFICATIONS.**

Any reference to the 'Department' should be read as the 'Owner'. Any reference to the 'District Engineer/Executive', 'Representative', or 'Inspector-in-Charge' should be read as the 'Engineer'. Any reference to 'Standard Drawings' should be read as 'Contract Drawings'.

ITEM 1018-0001 – REMOVAL OF EXISTING BRIDGE

In accordance with Section 1018 and as follows:

Section 1018.3 CONSTRUCTION

(a) General. Revise by adding the following:

Submit a proposed plan of demolition to the Department showing and describing the removal methods to be used for removal of the existing bridge at the pre-construction meeting. Have the plans and calculations completed, signed, and sealed by a Professional Engineer registered in the Commonwealth of Pennsylvania. Do not proceed with this work until written approval is received from the Project Manager.

Remove the existing structure to 2' below existing ground line or streambed. In areas where there is a conflict with new construction, remove the existing structure in its entirety.

Do not drop beams or material from existing superstructure or abutments into the stream.

Immediately remove any material that falls into the stream during removal operation.

Disassembly of existing steel members with a cutting torch requires compliance with OSHA and DEP regulations regarding lead based paint removal.

Carefully remove any bridge plaques and/or benchmarks from the existing bridge and deliver them to the County Representative.

The existing bridge is to be considered property of the contractor.

Measurement and Payment – Lump Sum

**Item – 8603-0001 – 25’-4” x 8’-7” ALUMINUM STRUCTURAL PLATE BOX
CULVERT, STRUCTURE, AS DESIGNED, L-591,
Item 8510-0001 – PRECAST CONCRETE BOX CULVERT**

PART A

I. DESCRIPTION - This work is either construction of the structure as designed or designing and constructing an equivalent bridge structure of an alternate design in place of the "as-designed" structure.

II. DESIGN -

(a) General. If an alternate design bridge structure is bid, furnish, to the Department, preliminary conceptual design calculations and drawings for the alternate bridge structure. Provide an alternate design equivalent to the original design and meeting applicable design criteria for strength and serviceability. Submit the alternate design to the District Executive for acceptance. Refer to PennDOT Design Manual Part 4, PP 1.10, Bridge Submissions-Construction Phase, for details on procedures for contractor submissions. If the equivalency of an alternate design cannot be clearly established, the Chief Bridge Engineer will be arbiter and the Chief Bridge Engineer's decision will be final. Furnish, with the preliminary conceptual design submission, a tabulation identifying the differences between the "as-designed" bridge structure and the alternate design bridge structure.

Any delay in submission and acceptance of a proposed alternate design or a revision, and/or approval of required permits, will not extend the contract time.

If an alternate design bridge structure is bid, and an acceptable preliminary conceptual design is not approved within 30 calendar days from the award date (6 days for the submission and 24 days for Department review), construct the "as-designed" bridge structure at no additional cost to the Department.

Alternate designs, which take advantage of any errors and/or omissions in the plans for the "as-designed" structure or discrepancies between the "as-designed" structure plans and the special provisions covering alternate designs, will not be accepted. In the event any such error, omission, or discrepancy is discovered, immediately notify the Department. Failure to notify the Department will constitute a waiver of all claims for misunderstandings, ambiguities, or other situations resulting from the error, omission, or discrepancy.

Experimental or demonstration-type design concepts; or products, structures, or elements not preapproved by the Department for general usage, will not be allowed in the alternate design.

Only eligible types of bridge structures, as shown in the Project Items and Quantities, bid documents, or special provisions, are allowed as contractor-designed alternates.

Value Engineering will not be allowed for elements changed by an approved alternate design.

Use the same type foundation for an alternate design as that indicated for the "as-designed" bridge structure. Contractor-designed alternate foundation types will not be allowed, but Value Engineering of the as-designed foundation will be allowed.

Have the alternate design completed by a Professional Engineer registered in the Commonwealth of Pennsylvania. All engineering firms must have a current Annual Qualification Package on file with the Bureau of Project Delivery's Consultant Agreement Unit and be registered business partners in ECMS.

Submit an affidavit, before or along with the preliminary conceptual design submission, stating that the designer is familiar with AASHTO, PennDOT, and other applicable design criteria, standards, and construction specifications. Also, submit a list of similar bridges designed for the Department within the past 5 years.

In identifying alternate design bridge structures, retain the "as-designed" bridge structure number, but suffix the numbers with the letters A, B, etc.

Show, on first sheet of the alternate design, the seal of a Professional Engineer registered in the Commonwealth of Pennsylvania, a valid signature in ink, the date signed, a business name, a business address, and the note "These drawings (S-XXXXXA) supersede drawings (S-XXXXX) approved (insert appropriate date)".

The Department will furnish CADD files and design computations for the "as-designed" bridge structure to the successful bidder upon request. Prepare alternate design plans using Department drafting standards.

(b) Design Computations and Design Specifications. On the first sheet of the computations for the alternate design show the seal of a Professional Engineer registered in the Commonwealth of Pennsylvania, a valid signature in ink, and the date signed.

Provide a complete set of computations for the alternate design of the superstructure and/or substructure, including foundation. Reproduce and insert computations from the "as-designed" bridge structure, as needed. Provide additional calculations, as requested by the District Bridge Engineer to justify the design, throughout the life of the contract.

Designs copied directly from approved Department Standards need not be documented through independent computations. List such designs on the submission by referencing the drawing number of the applicable standard, and the sheet number, table, or graph.

Use PennDOT Design Manual Part 4 for design policy procedures and criteria. All design related Strike-off Letters listed in PART B, "SPECIAL DRAWINGS AND SPECIAL DESIGN REQUIREMENTS", are applicable to the alternate design.

In the event that certain design parameters, stresses, or specifications are in conflict, the following order of predominance governs:

- Design requirements listed herein, in PART B, "SPECIAL DRAWINGS AND SPECIAL DESIGN REQUIREMENTS" and addenda (addendum) to the proposal.
- Design related Strike-off Letters in effect on the date of project advertisement.
- PennDOT Design Manual Part 4, "Structures", including revisions, (Publication 15M).
- PennDOT Bridge Design and Bridge Construction Standards (Publications 218M and 219M).
- AASHTO LRFD Bridge Design Specifications, as indicated for the "as-designed" bridge structure.

In the event that a clear order of predominance cannot be established, or a difference in the interpretation of the design criteria, standards, specifications, or methodology cannot be resolved, the Chief Bridge Engineer will be arbiter and the Chief Bridge Engineer's decision will be final.

Submit shop drawings to the District Executive as specified in Section 105.02 for review and acceptance. The Department is not responsible for work done without approved shop drawings.

If any provisions in PART B conflict with those in PART A, the provisions in PART B are to govern.

Within 60 calendar days after completion of the bridge structure, revise the structure drawings to show "as-built" conditions and submit them to the Representative. If caissons or piles are utilized, show, on the bridge elevation view, the maximum and minimum tip elevation and the average length for each substructure unit. For pile foundations, ensure that the table shown in PennDOT Design Manual Part 4, PP1.7.5.2 is included on the drawings and properly completed.

(c) Design Requirements. In the design of an alternate bridge structure, comply with PennDOT Design Manual Part 4, "Structures", and other design criteria as specified for the "as-designed" bridge structure, subject to the exceptions and/or additions in PART B, "SPECIAL DRAWINGS AND SPECIAL DESIGN REQUIREMENTS".

Provide clear span distances between faces of substructure units and under clearances of not less than the minimum values indicated for the "as-designed" bridge

structure, except as noted in PART B, "SPECIAL DRAWINGS AND SPECIAL DESIGN REQUIREMENTS".

The minimum under clearance for stream or river crossings is defined as the high water elevation for the design flood plus the specified debris clearance or as indicated for the "as-designed" bridge structure, whichever is less.

The minimum clearance for overpass structures is defined as the minimum required under clearance plus 3 inches or the minimum under clearance indicated for the "as-designed" bridge structure, whichever is less. Provide additional under clearance to compensate for foundation settlement if applicable to the alternate design.

Provide equivalent inspection and maintenance accessibility for the alternate bridge structure as for the "as-designed" bridge structure. In case of a disagreement on accessibility, the Chief Bridge Engineer's decision will be final.

Do not change the indicated horizontal and vertical alignments, except as noted in PART B, "SPECIAL DRAWINGS AND SPECIAL DESIGN REQUIREMENTS".

For an alternate bridge structure, design the substructure to be within the limits of factored foundation bearing resistance, factored pile resistance, and factored drilled shaft resistance as indicated for the "as-designed" bridge structure.

Provide structure and end structure drainage as indicated for the "as-designed" bridge structure.

Comply with all requirements of the approved permit(s). Obtain approved/amended waterway permit(s) for alternate structures if necessary.

Be responsible for the cost and delay of any additional utility relocation that results from changes in the Contractor's plans or construction sequences made subsequent to (1) acceptance of the utility's relocation plans and (2) where the utility has physically moved its facilities based upon those relocation plans.

III. MATERIAL - As indicated and as specified for each respective item included in the "as-designed" bridge structure.

IV. CONSTRUCTION - In accordance with Publication 408, Special Provisions for each respective item, and any additional requirements specified herein. Submit construction procedures for an alternate design, for acceptance, if other than those specified herein.

Erection methods are open, but submit the proposed method to the District Bridge Engineer for approval.

If utility relocations are required to accommodate the proposed locations of substructure units in an alternate design, be responsible for the cost of the utility relocations and any related delay claim costs.

V. MEASUREMENT AND PAYMENT - Lump Sum

For the type of alternate design bridge structure selected, subject to a reduction equal to the amount of the Contractor's share of the Department's engineering costs to be determined as follows:

- For each alternate bridge structure with lump sum bid item amount less than \$2,000,000 = 2% of the lump sum bid amount for structure
- For each alternate bridge structure with lump sum bid item amount over \$2,000,000 = \$40,000 plus 0.25% of the lump sum bid amount over \$2,000,000, total amount not to exceed \$85,000

The Contractor's share of the Department's engineering costs will be recovered by processing a contract adjustment (Alternate Design Review) to reduce the contract lump sum price by an amount equal to the Contractor's share.

A utility company's share of fabricated structural steel and/or installation of sleeves, inserts, casings, hanger assemblies, ducts, etc. for utilities is to be a separate item. Do not include the utility company's share in the bid price for the alternate design bridge structure unless otherwise specified.

For an alternate design bridge structure, all items of work are to be included in and will be paid for as part of the contract lump sum price; Class 3 excavation.

(a) Culvert As Designed. If the "as-designed" structure is bid, submit the "Component Item Schedule", included with the Proposal, as specified in Section 103.01(a).

Make the "Total" at the end of the "Component Item Schedule" equal the amount of the lump sum bid for Bridge Structure as Designed.

(b) Alternate Culvert. If an alternate design bridge structure is bid, the apparent low bidder is required to submit a "Component Item Schedule for Alternate Design" as specified in Section 103.01(a). No adjustments will be made to the contract lump sum price bid for alternate design bridge structure for any field adjustments necessary to complete the structure.

Make the "Total" at the end of the "Component Item Schedule for Alternate Design" equal the amount of the lump sum bid for Alternate Bridge Structure.

(c) Alternate Structure Design Costs. The apparent low bidder is to include a component item for Alternate Design Costs in the Component Item Schedule when an

alternate design is bid. Include the cost of this item in the total of the lump sum bid price. Payment of 25% of the total design costs will be made upon approval of the preliminary conceptual design. The remaining amount will be paid for in a proportionate manner, designated by the Department, on the basis of approval of the final design.

PART B – SPECIAL DRAWINGS AND SPECIAL DESIGN REQUIREMENTS

An acceptable alternate design is a Precast Concrete Box Culvert. The following items may be modified for the “as designed” culvert:

- Location of the precast joints and the number of precast box culvert segments
- Location, number and placement of the post-tensioning strands
- Shear reinforcement details
- Culvert haunch dimensions
- Thicknesses of walls and bottom slab only
- Welded wire fabric may be used in lieu of reinforcement bars and modifications to the reinforcement bars shown are permitted.

Design Alternate Structures as specified and in accordance with the applicable Strike-Off-Letters listed in the attachment entitled “Bridge/Structures Related Effective Policy Letters for Contractor’s Alternate Designs”.

Use the LRFD design method for alternate structure designs. Design for PHL-93 design vehicle and the Department P-82 (910 kN) Permit Load at operating rating. Provide inventory and operating ratings for the same vehicles shown in the contract drawings. Use the same number of loaded lanes for both the rating analysis and the design analysis.

A complete set of computations is required for an alternate design including the design of all structure elements and their foundations. Document all loadings applicable to the alternate designs. Reproduce the information contained in the computations of the “as designed” structure if it is to be included in the alternate designs.

Do not reduce the “as-designed Hydraulic Opening Size”.

Maintain the “as designed” invert elevations and profile for the alternate culvert.

Maintain the minimum required clearances indicated. Maintain the “as designed” roadway cross sections.

Maintain the same dimensions and elevations indicated on the contract drawings.

The use of proprietary wall systems is not permitted. Mechanically Stabilized Earth (MSE) headwalls and endwalls are not an acceptable alternate.

Design and detail the alternate culvert in accordance with seismic requirements for a structure located in Seismic Performance Category A.

Do not use lightweight concrete.

Provide the same number and size of baffles and weepholes in the alternate design culvert as indicated on the contract drawings. Precise connection details of the baffles to the culvert may be modified. Steel baffles may not be used.

Provide adequate erosion control for the alternate including any required for dewatering operations.

Provide a non-skid surface with a heavy broom finish to the tops of wingwalls.

Do not exceed a factored bearing resistance of 4 ksf for spread footings or slabs.

9000-0001 Temporary Stream Diversion

DESCRIPTION –

This work is providing access to the work site by constructing a temporary stream diversion as indicated on construction plans. Removal of the Temporary Stream diversion and all work described below is included in this item.

MATERIAL –

(a) Sandbags

1. Bags – Polypropylene or acrylic material, – 6 mil thickness (minimum) – Section 736
2. Aggregate – Type B Fine Aggregate or other suitable clean fill material approved by the Engineer- Section 703.

(b) Polyethylene Liner – 6 mil thickness (minimum) – Section 736

(c) Concrete Barrier – Section 714

(d) 2-36” HDPE Corrugated Pipe – Section 610

(e) AASHTO No. 1 Coarse Aggregate – Section 703

(f) AASHTO No. 57 Coarse Aggregate – Section 703

(g) Rock, Class R-3 – Section 850

CONSTRUCTION –

Construct the stream diversion as indicated and as follows

- In accordance with construction plans and based on field conditions: Place stream crossing channel/pipes as specified in E&S Plans/Section 601.
- Backfill with suitable material - Section 206
- Stabilize Diversion Channel/Pipe with Class R-3 rock to prevent erosion of streambed.

Maintain during construction

For removal, excavate clean fill and channel/pipes and grade to match site conditions

Construct the cofferdam as indicated and as follows

- Fill the sandbags with aggregate uniformly about three-fourths full and tie the choke chords.
- Tuck in the bottom corners of the bags after filling.
- Place polyethylene liner along all interface areas with ground contact.
- Place concrete barrier and/or sandbags to the required dimensions and as indicated.
- Place the sandbags so that the planes between the layers have the same pitch as the foundation.
- Interweave polyethylene liner through sandbags and barriers as indicated.
- Place the bottom row of sandbags as headers. Place the subsequent rows of sandbags in alternate rows of stretchers and headers with the joints broken between courses. Construct the top row of sandbags using headers, where possible.

- Place all bags so that side seams on stretchers and choked ends on headers are turned toward the center of the cofferdam and are not exposed.

Maintain and dewater the cofferdam as required.

Reset any part of the cofferdam while constructing and excavating or enlarge the cofferdam to provide the necessary clearance.

Dispose of all material excavated from the cofferdam's interior at a designated area away from the site. Maintain the disposal site in a manner to preclude the return of this excavated material to any adjacent waterway or wetland.

Flooding of the cofferdam will be permitted in case of high water or other emergency endangering the safety of the cofferdam. Perform work resulting from emergency action at no additional cost.

During cofferdam dewatering operations, utilize a pumped water filter bag.

Construct the cofferdam to withstand debris impacts. Place protective material on the upstream side of cofferdam to deflect stream flow and debris around the cofferdam.

Upon removal of the cofferdam, restore the area to its original condition, and suitably dispose of removed material.

MEASUREMENT AND PAYMENT – Lump Sum

Includes labor, material, maintenance and removal of the Temporary Stream diversion item.

9000-0002 – REPAIR OF ACCESS ROADS

I. DESCRIPTION - This work is the repair of damage to the road(s) identified herein when utilized for access to the project site, or to the local road(s) selected by the Contractor and approved by the Department for use as an alternate access route. Perform repair work in accordance with the applicable sections of Publication 408 and as directed.

Road(s) include: Patterson Creek Road

II. MATERIAL - Furnish material for repair work that is compatible with the existing roadway, as determined by the Engineer.

III. CONSTRUCTION - Present a hauling schedule to the Engineer. Repair or reconstruct damaged roadway to restore the profile and/or cross slope to original or like condition, to the satisfaction of the Engineer.

(a) Pre and Post Construction Road Survey. Video survey all roads designated above or approved alternate roads at the beginning and end of work to document the condition of the roadways used for construction access. Include a township representative and the Inspector-In-Charge (IIC) or his/her authorized representative when conducting the survey. Create a detailed video and voice recording onto a thumbdrive format to capture visible distresses in the pavement or riding surface. Provide thumbdrive copies of the initial and final survey footage to the IIC or his/her authorized representative and the township. Properly label the thumbdrive with the Contract #, SPN, Route #s, local names, date video was taken, and by whom.

IV. MEASUREMENT AND PAYMENT - Dollar

The proposal will include an item and a predetermined amount of money for this item. The contract item will have a unit of measure of Dollar, a unit price of \$1.00, and a quantity equal to the predetermined amount.

Due to the contingent or unpredictable nature of the work being performed, the provisions of Section 110.02(d) are not applicable to this item.

All work performed as repair of access roads will be paid under this item, measured by determining the actual amount of equipment, tools, labor, material, and engineering required to acceptably perform the work, and paid as follows:

(a) Contract Items. For performance of work identified as having similar items listed in the contract, the contract unit price will be paid.

(b) Non-Contract Items. Items of work not identified in the contract will be paid as follows:

1. Negotiated Price. At an agreed upon price. This price will be agreed upon before performing the work. When applicable, agreement is also required with the FHWA.

2. Force Account Basis. Section 110.03(d)

9000-0003 TEMPORARY FENCE

DESCRIPTION – This work is the construction and installation of temporary fencing for cattle including vertical droppers as indicated and directed. The work consists of furnishing materials and installing all components of the fencing as outlined in this specification, drawings provided, and in accordance with manufacture standards.

MATERIALS –

1. Wire – two (2) separate types:

- Barbed wire - 12 ½ gage wire with 4-point barb spaced no more than 6 inches apart
- Smooth wire - 12 ½ gage minimum galvanized steel

2. Ground Rods – 0.75 inch diameter galvanized steel or larger

3. Fasteners – 9 gauge staple, 1 ¼ inch length minimum galvanized steel.

4. Wooden Posts – preservative pressure treated (PPT) lumber treated with cremated copper arsenate (cca), Type A, B, or C. Line and brace posts are to be 6 ½ feet long with a minimum 6 inch diameter at the small end. Corner and gate posts are to be 8 feet long with a minimum 6 inch diameter at the small end.

CONSTRUCTION –

1. General – In accordance with the details on the drawings, established practices, and to the satisfaction of the Representative. High Tensile Steel fencing requires specialized installation and must be performed by an experienced personnel.

2. Coordination – Contactor is responsible for the coordination with the property owner prior to placing the fence and prior to removing the fence.

3. Temporary Livestock Fence – Set the fence in a location along the TCE line as to not interfere with construction activities. Space posts no more than a maximum of 8 feet apart. Posts are to be a minimum of 46 inches in height above ground. Line and brace posts are to be 18 inches minimum in-ground. Corner posts are to be a minimum 3 feet in-ground. Establish posts by driving, auguring, or hand digging. Backfill oversized dug holes with clean soil material with little rock and hand tamped in 6 inch lifts. Wire is to be spaced from the bottom in accordance with acceptable standard practice. Firmly fasten wire to the post using staples, installed and rotated in accordance with the manufactures recommendations and/or acceptable standard practice. Install electrical grounds directly under areas where electrical lines cross over the fence. Drive ground rods not less than 3 feet into the ground and clamp a No. 4 AWG conductor to the rod and to the fence so each fence element is grounded. Join new and existing fence where

necessary or as directed. Complete the fence true to line, plumb, taut, rigid and erected in conformance with establish practices.

4. Droppers – Install droppers on fence located within the stream channel. Posts are to be set outside of the stream channel and be a minimum 3 feet in-ground. Fence sections crossing the channel are to have 2 stand, 12 ½ gauge galvanized smooth wire. The top stand is to be installed and properly affixed 6 inches from the top of the post and the second strand is to be of the same wire a maximum of 15 inches from the top stand. Droppers are to consist of a minimum of 12 ½ gauge galvanized steel smooth wire and be a minimum of 15 inches in length. Firmly attach droppers to the second stand so as not slide or move. Space droppers between 6 and 8 inches apart.

5. Maintenance – Contractor is responsible for all maintenance, repairs, replacement, or corrections during construction

6. Removal – Upon completion of construction, remove temporary fence and all associated appurtenances. Satisfactorily backfill holes with suitable material to restore area to pre-construction condition.

MEASUREMENT AND PAYMENT – Linear Foot. Includes the construction, installation, repairs, corrections, interim maintenance, and removal. Note: Droppers are incidental to placement of fence.



Pennsylvania
Department of
Environmental Protection

January 31, 2025

Greene County – jmarshall@greencountypa.gov
93 East High Street
Waynesburg, PA 15370

Re: General Permit (GP) Acknowledgment Notification
DEP File No.: GP113005224-011
T-438(walker RD) over Patterson Creek
Morris Township
Greene County

Dear Applicant:

This letter acknowledges receipt of your notification to use and registers your use of above authorized General Permit(s) (GP(s)) under the authority of the Dam Safety and Encroachments Act (32 P. S. § 693.1 et. seq.) and 25 Pa. Code Chapter 105. You are responsible for assuring the work is done in accordance with the drawings, terms and conditions contained in the GP(s). Please direct special attention to all time sensitive issues associated with the GP authorization(s). You may proceed with your project after making the required notifications stipulated in the GP(s) and securing all other approvals that may be necessary.

Enclosed is an acknowledged copy of your GP Registration Form. Please place this letter and the acknowledged GP Registration form with your copy of the GP Registration package, the applicable GP terms and conditions, required Federal authorizations, and the Erosion and Sediment Control plan and maintain on site during construction. Please review the complete permit authorization package so that you are aware of the extent of the authorization(s).

Please note that the Erosion and Sedimentation Control Plan was only reviewed by the Department for activities conducted under this General Permit. If other areas are disturbed, you should contact the County Conservation District for additional approvals as necessary.

We have determined that your proposed work, if accomplished in accordance with the enclosed terms and conditions, is authorized by the Pennsylvania State Programmatic General Permit-6 (PASPGP-6). This PASPGP-6 verification provides U.S. Army Corps of Engineers authorization pursuant to Section 10 of the Rivers and Harbors Act and/or Section 404 of the Clean Water Act. This authorization may be subject to modification, suspension, or revocation if any of the information contained in the application, including the plans, is later found to be in error.

The enclosed list of conditions must be followed for purposes of the PASPGP-6 (Enclosure 1). Any person aggrieved by this action may appeal the action to the Environmental Hearing Board (Board), pursuant to Section 4 of the Environmental Hearing Board Act, 35 P.S. § 7514, and the Administrative Agency Law, 2 Pa.C.S. Chapter 5A. The Board's address is:

Environmental Hearing Board
Rachel Carson State Office Building, Second Floor
400 Market Street
P.O. Box 8457
Harrisburg, PA 17105-8457

TDD users may contact the Environmental Hearing Board through the Pennsylvania Relay Service, 800-654-5984.

Appeals must be filed with the Board within 30 days of receipt of notice of this action unless the appropriate statute provides a different time. This paragraph does not, in and of itself, create any right of appeal beyond that permitted by applicable statutes and decisional law.

A Notice of Appeal form and the Board's rules of practice and procedure may be obtained online at <http://ehb.pa.gov> or by contacting the Secretary to the Board at 717-787-3483. The Notice of Appeal form and the Board's rules are also available in braille and on audiotape from the Secretary to the Board.

IMPORTANT LEGAL RIGHTS ARE AT STAKE. YOU SHOULD SHOW THIS DOCUMENT TO A LAWYER AT ONCE. IF YOU CANNOT AFFORD A LAWYER, YOU MAY QUALIFY FOR FREE PRO BONO REPRESENTATION. CALL THE SECRETARY TO THE BOARD AT 717-787-3483 FOR MORE INFORMATION. YOU DO NOT NEED A LAWYER TO FILE A NOTICE OF APPEAL WITH THE BOARD.

IF YOU WANT TO CHALLENGE THIS ACTION, YOUR APPEAL MUST BE FILED WITH AND RECEIVED BY THE BOARD WITHIN 30 DAYS OF RECEIPT OF NOTICE OF THIS ACTION.

If you have questions about your registration, please contact dnepal@pa.gov at 412-442-4323 or dnepal@pa.gov and refer to the above referenced registration number.

Sincerely,

Dana Drake

Dana Drake, P.E.
Environmental Program Manager
Waterways & Wetlands Program

Enclosures

cc: Greene County Conservation District
Morris Township
John McCombie (jmccombie@widmerengineering.com)
File Copy (GP113005224-011)



CHAPTER 105 WATER OBSTRUCTIONS AND ENCROACHMENT GENERAL PERMIT REGISTRATION

SECTION A. APPLICANT INFORMATION

<input type="checkbox"/> FERC Natural Gas Activity Docket Number _____ Type of Facility _____ Has a Water Quality Certification (WQC) request been sent to DEP? <input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Activity Subject to FERC approval and/or Oil & Gas Exploration, Production, Storage or Transmission if the activity is regulated by FERC and provide the FERC docket number.	
---	--

Applicant's Name / Client Greene County	DEP Client ID# (if known) 86155	Employer ID# (EIN) 256001034
---	---	--

Client Information - Please select Client Type / Code from drop down box under the correct entity shown below. (or may be written in) ↓

Government	Non-Government	Individual
CNTY County		

Mailing Address 93 East High Street	City Waynesburg	State PA	ZIP + 4 15370-1889
---	---------------------------	--------------------	------------------------------

Contact Person – Last Name Marshall	First Jeff	MI	Suffix	Telephone (724) 852-5210
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Email Address
jmarshall@greencountypa.gov

SECTION B. CONSULTANT INFORMATION (If applicable) N/A

Contact Person – Last Name Tweed	First Knox	MI	Suffix	Consultants Title Engineer	Consulting Firm Widmer Engineering Inc.
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Mailing Address 806 Lincoln Place	City Beaver Falls	State PA	ZIP + 4 15010-4557
---	-----------------------------	--------------------	------------------------------

Telephone (724) 847-1696	Fax (724) 847-0419	Employer ID# (EIN)
------------------------------------	------------------------------	---------------------------

Email
ktweed@widmerengineering.com

SECTION C. PROJECT INFORMATION

Project / Site Name Greene County Bridge No. 103	DEP Site ID# (if known or leave blank)
--	---

Client Relationship - Please select Site-to-Client Relationship / Code from drop down box to the right. (or may be written in) →	Double-click on shaded area below to select correct Site-to-Client Relationship / Code ↓ OWN Owner
---	---

County Greene	Municipality <input type="checkbox"/> City <input type="checkbox"/> Borough <input checked="" type="checkbox"/> Township Morris	Note: Municipal & County Notification is Required
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Site Location / Address T-438 (Walker Rd) over Patterson Creek	City Sycamore	State PA	ZIP + 4 15364
--	-------------------------	--------------------	-------------------------

Collection Method: EMAP HGIS GISDR* ITPMP GPS WAAS LORAN

Check the horizontal reference datum (or projection datum) employed in the collection method.

EMAP and HGIS (PNDI) have known datum and do not require checking here. NAD27 NAD83 WGS84
(GEO84) LAT.: 39°56'21.2" LONG.: -80°17'58.5"

NOTE: A Submerged Lands License Agreement (SLLA) with an annual fee, if applicable, may also be required for your project. You will be notified if an SLLA is required.

The [Aquatic Resources Impact Table \(SECTION E. PROPOSED IMPACTS\)](#) must be completed or equivalent submitted for this registration to be complete.

SECTION D. REGISTRATION CHECKLIST AND REQUIREMENTS

Please place an "X" next to each item (1-9) to ensure it is completed and/or provided.

Unless otherwise specified, all items are **required** to ensure a complete Registration package.

****Provide ONE (1) ORIGINAL and ONE (1) COPY of the Registration package****

Please provide a copy of the Registration form to the Municipality & County in which the work will be performed. Proof of receipt is not required to be provided to DEP.

1. REGISTERING A GENERAL PERMIT (GP) check all that apply

Federal, State, county or municipal agencies or municipal authorities:

EXEMPT from fees

<input type="checkbox"/>	GP-1	Fish Habitat Enhancement Structures.....	Per Project	\$ 50	= \$ _____
<input type="checkbox"/>	GP-2	Small Docks and Boat Launching Ramps	Per Dock / Ramp _____ (#) x	\$ 175	= \$ _____
<input type="checkbox"/>	GP-3	Bank Rehabilitation, Bank Protection and Gravel Bar Removal	Per Project _____ (#) x	\$ 250	= \$ _____
<input type="checkbox"/>	GP-4	Intake and Outfall Structures	Per Structure _____ (#) x	\$ 200	= \$ _____
<input type="checkbox"/>	GP-5	Utility Line Stream Crossings	Per Individual Utility _____ (#) x _____ (#) x	\$ 250	= \$ _____
<input type="checkbox"/>	GP-6	Agricultural Crossings and Ramps	Per Crossing / Ramp _____ (#) x	\$ 50	= \$ _____
<input type="checkbox"/>	GP-7	Minor Road Crossings ²	Per Crossing _____ (#) x	\$ 350	= \$ _____
<input type="checkbox"/>	GP-8	Temporary Road Crossings ²	Per Crossing _____ (#) x	\$ 175	= \$ _____
<input type="checkbox"/>	GP-9	Agricultural Activities	Per Project	\$ 50	= \$ _____
<input type="checkbox"/>	GP-10	Abandoned Mine Reclamation	Per Project	\$ 500	= \$ _____
<input checked="" type="checkbox"/>	GP-11	Maintenance, Testing, Repair, Rehabilitation, or Replacement of Water Obstructions and Encroachments ¹		\$ 750	+
<input type="checkbox"/>		Temporary Disturbance (\$400/0.1ac).....	_____ acres x \$4,000 =	\$ _____	+
<input type="checkbox"/>		Permanent Disturbance (\$800/0.1ac).....	_____ acres x \$8,000 =	\$ _____	= \$ _____
<input type="checkbox"/>	GP-15	Private Residential Construction in Wetlands ¹		\$ 750	+
<input type="checkbox"/>		Temporary Disturbance (\$400/0.1ac).....	_____ acres x \$4,000 =	\$ _____	+
<input type="checkbox"/>		Permanent Disturbance (\$800/0.1ac).....	_____ acres x \$8,000 =	\$ _____	= \$ _____
				GP(s) FEE subtotal (b)	\$ _____

	Applicant Entry	DEP Use Only
2. Location Map (USGS quad map) with project site marked:	<input checked="" type="checkbox"/>	<input type="checkbox"/>
3. Color Photographs with dates, locations, and descriptions: <input type="checkbox"/> GP-3 <input checked="" type="checkbox"/> GP-11 <input type="checkbox"/> N/A	<input checked="" type="checkbox"/>	<input type="checkbox"/>
4. Project Description: (Example: Linear pipeline project using multiple GP-5's and GP-8's; One GP-7 for an access road to my property) Bridge replacement project in the same location as the existing bridge with a temporary stream diversion during construction. _____ _____ _____	<input checked="" type="checkbox"/>	<input type="checkbox"/>
5. Site Specific and/or Standard Drawings are (required for all) project's GP activities. For Activities that qualify for GP-7 or GP-11 Plans, specifications, and reports for bridges and culverts across a stream which are to be used by the general public such as an access to an industrial, commercial or residential development, etc., shall be prepared by a registered professional engineer and shall be affixed with their seal and certification which shall read as follows on the drawings: If the project includes a bridge or culvert replacement or the proposed work will change the waterway opening, please complete and provide the <u>Bridge and/or Culvert Replacement Projects or Projects That Change the Waterway Opening (3150-PM-BWEW0552B)</u> worksheet. If the project consists of similar work (replacement or change in waterway opening) on more than one structure, provide the data requested for each structure included in this Registration package. <i>"I (name) do hereby certify pursuant to the penalties of 18 Pa. C.S.A. Sec. 4904 to the best of my knowledge, information and belief, that the information contained in the accompanying plans, specifications, and reports has been prepared in accordance with accepted engineering practice, is true and correct, and is in conformance with Chapter 105 of the rules and regulations of the Department of Environmental Protection."</i>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
6. Proposed Project Purpose depicting the site of the projects GP activities and impacts. Briefly discuss the need for the authorization.	<input checked="" type="checkbox"/>	<input type="checkbox"/>
7. Erosion & Sediment Control Plan (E&S Plan) (Required for all GP's but specifically required with submission with a registration of GP-11 or GP's for oil and gas related activities submitted to DEP.)	<input checked="" type="checkbox"/>	<input type="checkbox"/>
8. Pennsylvania Natural Diversity Inventory (PNDI): PNDI Search Receipt and clearance letters, if available. See additional requirements for submission with Avoidance Measures and/or Potential Impacts.	<input checked="" type="checkbox"/>	<input type="checkbox"/>
9. Activities which impact wetlands: (For State Regulated Impacts) Please place an "X" next to the appropriate box indicating the information provided: ➤ N/A because no wetland impacts are proposed or no compensatory mitigation is necessary. <input type="checkbox"/> <input type="checkbox"/> ➤ A wetland delineation with complete data sheets in accordance with the 1987 Corps of Engineers Wetland Delineation Manual AND the appropriate Regional Supplements to the Corps of Engineers Wetland Delineation Manual for use in Pennsylvania..... <input checked="" type="checkbox"/> <input type="checkbox"/> ➤ If direct or indirect wetland impacts are greater than 0.05 acre, a compensatory mitigation plan in accordance with the Department's Replacement criteria which provides compensation for both affected acreage, and functions at a minimum of one to one ratio. <input type="checkbox"/> <input type="checkbox"/> ➤ If compensatory mitigation onsite is determined not feasible: A check, number _____, in the amount of \$ _____ payable to the National Fish and Wildlife Foundation, N.A. 1237, as compensatory mitigation for _____ acres of impact in wetlands, in accordance with the Pennsylvania Wetland Replacement Project..... <input type="checkbox"/> <input type="checkbox"/> (Additional Mitigation May Be Required by U.S. Army Corps) <input type="checkbox"/> <input type="checkbox"/>		
NOTE: If the Pennsylvania Wetland Replacement Fund is proposed to be used as compensatory mitigation for waters of the Commonwealth the U.S. Army Corps of Engineers may also require additional mitigation if the proposed activity impacts waters of the United States.		



Applicant's Name / Client Greene County

AQUATIC RESOURCE IMPACT TABLE
FOR PENNSYLVANIA CHAPTER 105 WATER OBSTRUCTION AND ENCROACHMENT APPLICATION / REGISTRATION

DEP USE ONLY		Project Information					PA DEP / 105						Enter Only If Different from DEP Impacts Army Corps Impacts:	
PADEP Permit Number	Structure / Activity unique identifier	Aquatic Resource Type	Latitude dd nad83	Longitude dd nad83	Waters Name	PA Code Chapter 93 Designation	Work Proposed	DEP Impact Type temp / perm	ACOE Impact Type temp / perm	Watercourse Impact Top of Bank to Top of Bank Length and Width in feet	Floodway Impact Top of Bank Landward Length and Width in feet	Wetland Impact Dimensions Length and Width in feet	Watercourse Impact Length and Width in feet	Wetland Impact Length and Width in feet
	GP-11-1	Perennial	39°56'21.20"	-80°17'58.60"	Patterson Creek	HQ-WWF	Bridge Replacement	Perm	Perm	50 - 25	50 - 25	N/A - N/A	-	-
	GP-11-2	Perennial	39°56'21.20"	-80°17'58.60"	Patterson Creek	HQ-WWF	Temp Cofferdam	Temp	Temp	95 - 25	N/A - N/A	N/A - N/A	-	-
	GP-11-3	PEM wetland	39°56'21.20"	-80°17'58.60"	Patterson Creek	HQ-WWF	Temp Stream Diversion	Temp	Temp	N/A - N/A	N/A - N/A	18 - 12	-	-
										-	-	-	-	-
										-	-	-	-	-
										-	-	-	-	-
										-	-	-	-	-
										-	-	-	-	-

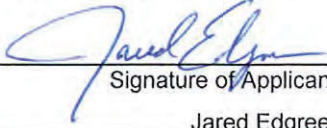
PADEP Impact Type: temporary or permanent.

Permanent Impacts are those areas affected by a water obstruction or encroachment that consist of both direct and indirect impacts that result from the placement or construction of a water obstruction or encroachment and include areas necessary for the operation and maintenance of the water obstruction or encroachment located in, along or across, or projecting into a watercourse, floodway or body of water.

Temporary Impacts are those areas affected during the construction of a water obstruction or encroachment that consists of both direct and indirect impacts located in, along or across, or projecting into a watercourse, floodway or body of water that are restored upon completion of construction. This does not include areas that will be maintained as a result of the operation and maintenance of the water obstruction or encroachment located in, along or across, or projecting into a watercourse, floodway or body of water (these are considered permanent impacts).

SECTION F. CERTIFICATION

I certify under penalty of law that the information provided in this permit registration is true and correct to the best of my knowledge and information and that I possess the authority to undertake the proposed action. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations. (If any of the information and/or plans is found to be in error, falsified, and/or incomplete, this authorization/verification may be subject to modification, suspension, or revocation in accordance with applicable regulations.) I further certify that this project complies with all the conditions of the general permit.



Signature of Applicant / Owner

5/14/24

Date

Jared Edgreen

Typed / Printed Name

Chairman, Board of Commissioners

Typed / Printed Title

This General Permit shall not be effective until the owner has had their E&S Plan reviewed by the appropriate Regional Office or District, and, where required, obtained an SLLA from DEP.

THIS ACKNOWLEDGED COPY OF THIS GENERAL PERMIT REGISTRATION PACKAGE AND THE E&S PLAN MUST BE AVAILABLE AT THE PROJECT SITE DURING CONSTRUCTION.

SECTION G. DECISION / DISPOSITION – COMPLETED BY DEP

Decision Review:

DEP / District Reviewer Signature

Dana Drake

Reviewer's Typed / Printed Name

GP 113005224-011

GP

NOTE: See Aquatic Resource Impact Table for any additional authorizations.

Disposition Status

Comments

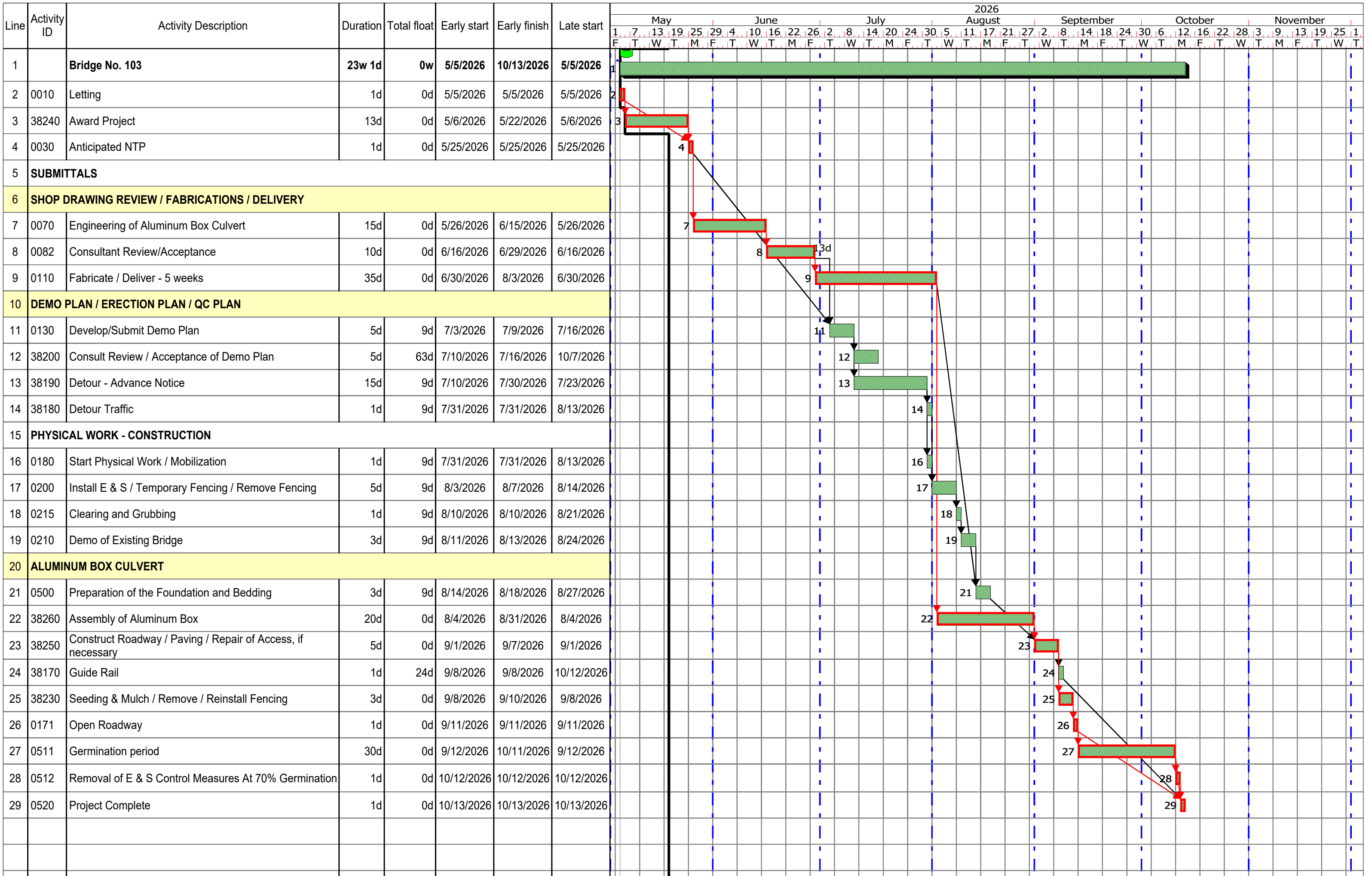
- ACKNOWLEDGED** Date 01/31/2025
- SLLA Required Yes Attached No
- INCOMPLETE / DEFICIENCY** Date _____
- EXTENSION REQUEST** Date _____
- WITHDRAWN** Date _____

NOTE: If the GP registration information is incomplete a copy of this registration form and requested additional information will be sent to the applicant. A copy of the returned registration form and additional information must be re-submitted within 60 calendar days unless extended by the extension date listed above.

FEDERAL AUTHORIZATION

- Non-reporting PASPGP verification / authorization attached.
- Reporting – A copy of this General Permit registration package has been sent to the U.S. Army Corps of Engineers. Separate federal authorization may be required

NOTE: Please be advised that if the reporting box is checked you do not have Federal authorization for this project and such authorization may be required prior to starting your project. In accordance with Section 404 of the Clean Water Act, a Department of the Army authorization is required for the discharge of dredged and/or fill material into waters of the United States, including jurisdictional wetlands. Section 10 of the Rivers and Harbors Act also requires Department of the Army authorization for any work in, over, or under a navigable water of the United States. In accordance with procedures established with the U.S. Army Corps of Engineers, you will be contacted directly by the Corps regarding Federal Authorization.



PLAN PREPARATION DESIGNER:
WIDMER ENGINEERING INC

DISTRICT	COUNTY	TOWNSHIP	BOROUGH	ROUTE	SECTION	TOTAL SHEETS
12-0	GREENE	MORRIS		T438	G103	7

GREENE COUNTY BRIDGE #103

COUNTY OF GREENE TOWNSHIP OF MORRIS

DRAWINGS
FOR
CONSTRUCTION

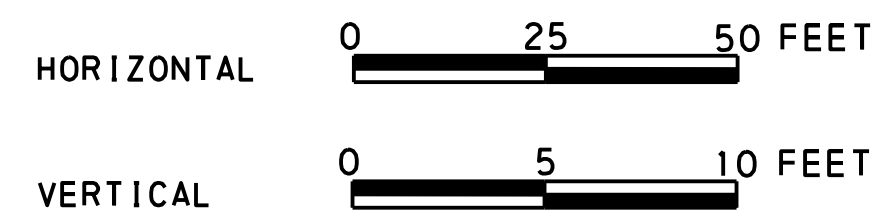
OF
TOWNSHIP ROAD T438 (WALKER RD) SECTION G103
IN GREENE COUNTY

FROM STA 29+00.00 TO STA 32+75.00 LENGTH 275.00 FT 0.052 MI

ALSO INCLUDED

TRAFFIC CONTROL PLAN	2 SHEETS
SIGNING AND PAVEMENT MARKING PLAN	1 SHEET
EROSION AND SEDIMENT POLLUTION CONTROL PLAN	6 SHEETS
STRUCTURE PLAN L-591	4 SHEETS
CROSS SECTIONS	7 SHEETS

SCALE

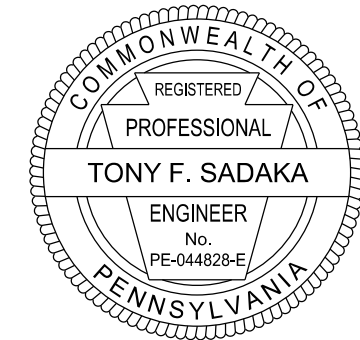
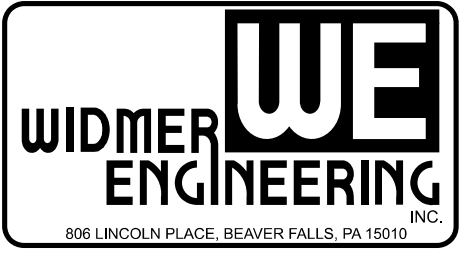
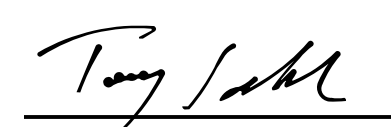


DESIGN DESIGNATION

HIGHWAY CLASSIFICATION - RURAL LOCAL ROAD
ROADWAY TYPOLOGY - RURAL PLACES LOCAL ROAD
DESIGN SPEED - 25 MPH
PAVEMENT WIDTH - 10' -0"
SHOULDER WIDTH - 0' -0" TO 3' -0" (EFFECTIVE)

TRAFFIC DATA

CURRENT ADT - 30 (2026)
DESIGN YEAR ADT - 31 (2046)
DHV - 3
D - 10%
T - 2%

PREPARED BY: 	 886 LINCOLN PLACE, BEAVER FALLS, PA 15010  TONY F. SADAKA PROJECT MANAGER REG PROF ENGR PE-044828-E DATE: 3/27/26	COUNTY OF GREENE ATTEST _____ 20____ APPROVED _____ 20____ APPROVED _____ 20____ APPROVED _____ 20____
---	--	--

DRAWN BY: JWL CHECKED BY: TFS

Files: 11:16:22 AM
 C:\Users\jwlad\OneDrive - Greene County\Documents\103\Construction\COV.dgn

DISTRICT	COUNTY	ROUTE	SECTION	SHEET
12-0	GREENE	T438	G103	2 OF 7
MORRIS TOWNSHIP				
REVISION NUMBER	REVISIONS			DATE BY

TABULATION OF OVERALL LENGTH

STATION 29+00.00 TO STATION 32+75.00 = 375.00 FT = 0.071 MILES

TABULATION OF CONSTRUCTION LENGTH

STATION 29+50.00 TO STATION 32+25.00 = 275.00 FT = 0.052 MILES

LIST OF EQUALITIES

N/A

TABULATION OF SEGMENT EQUALITIES

N/A

RECORD OF EXISTING ROAD TYPES

N/A

NOTE:
THE DEPTHS OF MATERIAL SHOWN ARE FOR DESIGN PURPOSES ONLY. ANY RISK OF UNANTICIPATED COSTS ASSOCIATED WITH DIFFERENCES BETWEEN THE LISTED DEPTHS AND THE ACTUAL DEPTHS SHALL BE ACCEPTED BY THE CONTRACTOR.

PUBLIC UTILITIES

NONE

PENNSYLVANIA ONE-CALL SYSTEM
PHONE: 1-800-242-1776
DESIGN SERIAL # 20240752147-000

TABULATION OF PROJECT COORDINATES

BASED ON PA STATE PLANE COORDINATE SYSTEM, SOUTH ZONE

RTE	STATION	POINT	COORDINATES		BEARING
			NORTH	EAST	
T438 (WALKER ROAD) MORRIS TOWNSHIP GREENE COUNTY SURVEY & CONSTRUCTION B	28+46.93	POB	230799.0175	1253732.1706	N 13° 13' 15" W
	28+73.84	PC	230825.2121	1253726.0167	
	29+06.34	PI	230856.8501	1253718.5840	
	29+38.58	PT	230886.1624	1253704.5485	N 25° 35' 11" W
	29+90.14	PC	230932.6606	1253682.2839	
	30+38.08	PI	230975.9069	1253661.5764	
	30+82.95	PT	231023.1460	1253669.7931	N 9° 52' 02" E
	31+05.42	PC	231045.2793	1253673.6429	
	31+44.47	PI	231083.7560	1253680.3355	
	31+81.13	PT	231111.5789	1253707.7423	N 44° 34' 07" E
	31+84.38	PC	231113.9004	1253710.0292	
	32+27.68	PI	231144.7469	1253740.4146	
	32+63.60	PT	231135.7288	1253782.7637	S 77° 58' 43" E
	32+83.15	PC	231131.6578	1253801.8809	
	33+09.26	PI	231126.2191	1253827.4207	
	33+35.34	PT	231118.5822	1253852.3913	S 72° 59' 40" E
33+52.97	POE	231113.4249	1253869.2545		

NOTE:
FOUR (4) PLACE COORDINATES ARE USED FOR COMPUTATIONAL PURPOSES ONLY AND DO NOT IMPLY A PRECISION BEYOND TWO (2) PLACES.

GENERAL NOTES

THE LEGAL RIGHT-OF-WAY ON T438 (WALKER ROAD), FROM STA 29+00 TO 30+62 AND FROM 31+36 TO 32+75 IS 33 FEET, BASED ON THE ACT OF MAY 1, 1933, P.L. 103, SECTION 1105, AS AMENDED. PRIOR TO THE ADOPTION OF T438 (WALKER ROAD) AS A STATE HIGHWAY IN 1942, IT HAD BEEN OPENED AND MAINTAINED FOR TWENTY-ONE (21) YEARS OR MORE BY MORRIS TOWNSHIP, A SECOND-CLASS TOWNSHIP. THERE IS NO PUBLIC RECORD OF ANY OTHER WIDTH. THE LEGAL RIGHT-OF-WAY ON T438 (WALKER ROAD) FROM STATION 30+62 TO STATION 31+36 VARIES FROM 33 FEET IN WIDTH TO 48 FEET. BASED ON PLAN OF T438 G103 R/W SIGNED ON 0/00/0000, AND RECORDED ON XXTH MONTH, 2026 IN THE GREENE COUNTY RECORDER'S OFFICE IN PLAN BOOK 0000 PAGE 0000.

TEMPORARY CONSTRUCTION EASEMENT, AN EASEMENT TO USE THE LAND AS NECESSARY DURING CONSTRUCTION OF THE PROJECT. THE EASEMENT IS REQUIRED ONLY UNTIL THE CONSTRUCTION OR WORK INDICATED BY THE PLAN IS COMPLETED UNLESS SOONER RELINQUISHED IN WRITING BY THE COUNTY.

THE HORIZONTAL CONTROL IS TIED TO THE PENNSYLVANIA STATE PLANE COORDINATE SYSTEM (NAD 83).

THE VERTICAL CONTROL ELEVATIONS ARE BASED UPON THE NORTH AMERICAN VERTICAL DATUM OF 1988 (NAVD 1988).

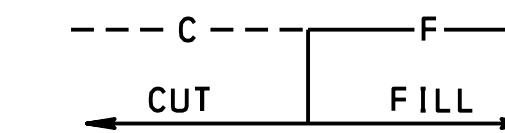
ALL PROPOSED CURVE DATA IS BASED ON THE ARC DEFINITION. THE LOCATIONS OF UNDERGROUND UTILITIES SHOWN ON THE PLANS HAVE BEEN OBTAINED BY FIELD SURVEY AND SEARCHES OF AVAILABLE RECORDS. THE COUNTY DOES NOT GUARANTEE THEIR ACCURACY OR COMPLETENESS.

SEED SLOPES STEEPER THAN 3:1 WITH FORMULA L SEED MIXTURE. SEED SLOPES 3:1 AND FLATTER WITH FORMULA B SEED MIXTURE.

THREE WORKING DAYS PRIOR TO EXCAVATION, THE CONTRACTOR MUST CONTACT THE PA ONE CALL SYSTEM, INC., PHONE 1-800-242-1776, SERIAL # _____ FOR MORRIS TOWNSHIP, GREENE COUNTY.

DO NOT INTERFERE WITH THE OPERATION OF ANY FIRE HYDRANT, FIRE CALL BOX OR POLICE CALL BOX.

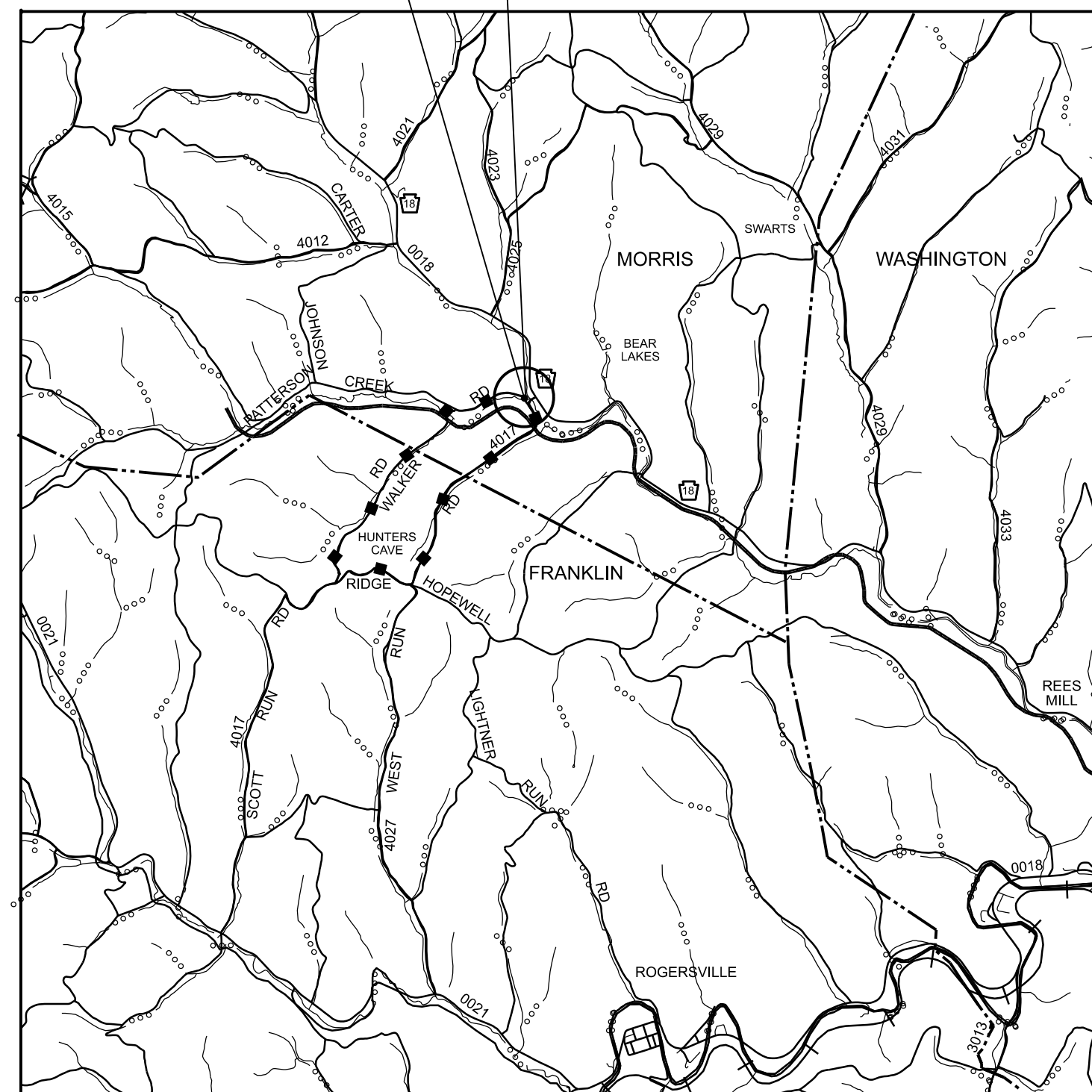
INDICATES SLOPE LIMITS



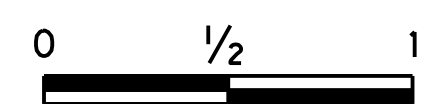
THERE ARE NO NAVIGABLE STREAMS ON THIS PROJECT.

LIMIT OF WORK
STA 29+00.00
T438 (WALKER ROAD)
MORRIS TOWNSHIP
GREENE COUNTY

LIMIT OF WORK
STA 32+75.00
T438 (WALKER ROAD)
MORRIS TOWNSHIP
GREENE COUNTY



LOCATION MAP
SCALE IN MILES



LEGEND

- PROJECT AREA
- STATE ROUTES
- TOWNSHIP ROADS
- STREAMS
- TOWNSHIP LINE
- DETOUR ROUTE

SEE TRAFFIC CONTROL PLANS FOR DETOUR

DETAILS OTHER THAN THOSE INDICATED, ARE ON THE FOLLOWING STANDARD DRAWINGS:

STANDARD DRAWING	DATE APPROVED	STANDARD DRAWING	DATE APPROVED	STANDARD DRAWING	DATE APPROVED	STANDARD DRAWING	DATE APPROVED
RC-10M	JUNE 1, 2010	RC-75M	JUNE 1, 2010	BC-709M	OCT 7, 2024	BC-757M	SEPT 30, 2016
RC-11M	JUNE 1, 2010	RC-77M	DEC 17, 2019	BC-732M	NOV 23, 2022	BC-772M	NOV 23, 2022
RC-12M	NOV 1, 2022			BC-734M	FEB 19, 2021	BC-775M	NOV 23, 2022
RC-13M	JUNE 1, 2010	TC-8604	AUG 21, 2021	BC-735M	SEPT 30, 2016	BC-788M	NOV 23, 2022
RC-50M	DEC 18, 2024	TC-8702B	JUNE 13, 2013	BC-736M	NOV 23, 2022		
RC-51M	DEC 18, 2024	TC-8716	FEB 21, 2024	BC-751M	JAN 31, 2019		
RC-70M	FEB 8, 2019	TC-8717	JUNE 13, 2013	BC-752M	NOV 23, 2022		
RC-74M	FEB 8, 2019			BC-755M	JAN 31, 2019		

SHEET INDEX

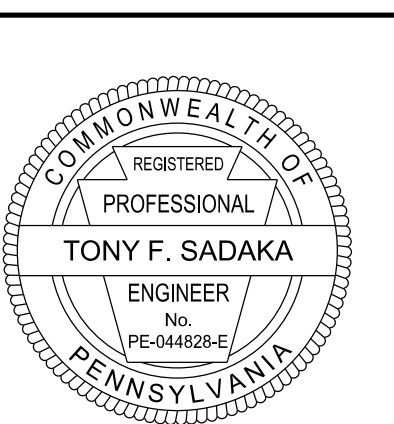
DESCRIPTION	SHEET
TITLE SHEET	1
LOCATION MAP & GENERAL NOTES	2
TYPICAL SECTION SHEET	3
SUMMARY SHEET	4
TABULATION SHEET	5
PLAN SHEET	6
PROFILE SHEET	7

EARTHWORK SUMMARY ENTIRE PROJECT

THE INFORMATION ON ESTIMATED AMOUNTS OF EARTHWORK HAS BEEN USED IN THE PRELIMINARY ESTIMATE. DO NOT USE AS A WAIVER OF ANY PROVISIONS OF THE SPECIFICATIONS AND CONTRACTS.

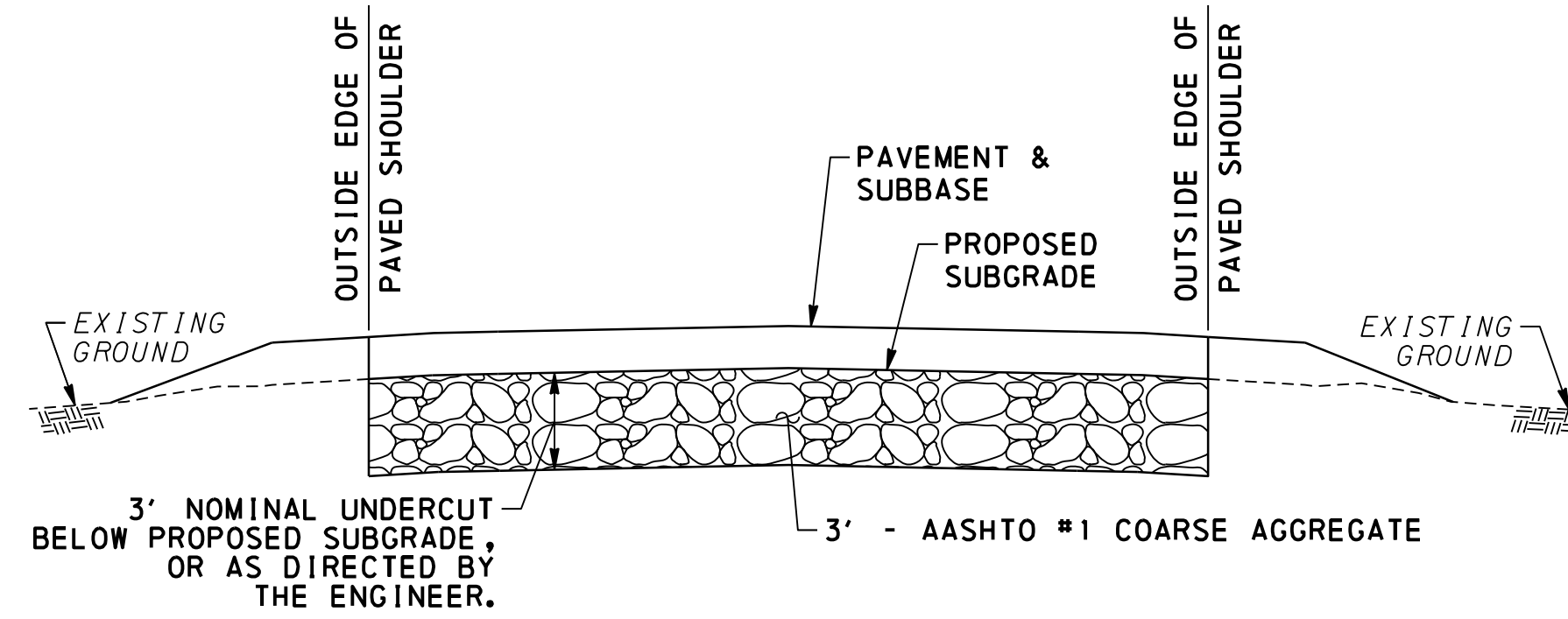
CUBIC YARDS OF EXCAVATION			CU. YDS. OF COMPLETED EMBANKMENT	CU. YDS. OF SELECTED BORROW EXCAVATION STRUCTURE BACKFILL	CU. YDS. OF SELECTED BORROW EXCAVATION, ROCK, CLASS R-7	CU. YDS. OF EXCAVATION, BACKFILL, AND COMPACTION AASHTO #1
CLASS 1	CLASS 2	CLASS 3				
110 CY	---	118 CY▲	102 CY	629 CY▲	87 CY▲	98 CY

▲ QUANTITIES INCLUDED IN THE LUMP SUM BRIDGE ITEM



LOCATION MAP & GENERAL NOTES

DISTRICT	COUNTY	ROUTE	SECTION	SHEET
12-0	GREENE	T438	G103	3 OF 7
MORRIS TOWNSHIP				
REVISION NUMBER	REVISIONS			DATE BY

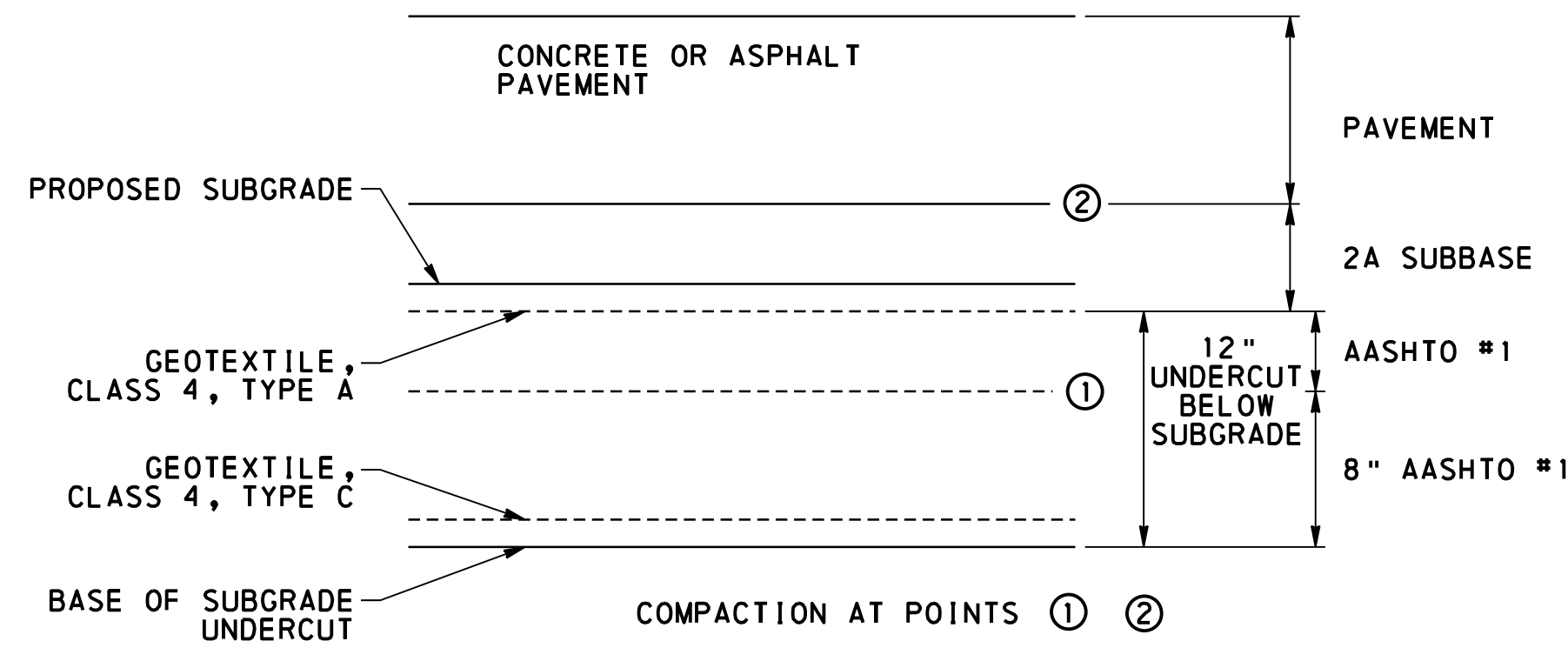


TYPE 2 SUBGRADE UNDERCUT DETAIL

(90%)
NOT TO SCALE

NOTES:

1. ALL EXCAVATION PAID FOR AS CLASS 1 EXCAVATION.
2. GEOTEXTILE, CLASS 4, TYPE A WILL BE USED, AS DIRECTED BY THE ENGINEER, FOR SEPARATION PURPOSES, BETWEEN THE SUBBASE MATERIAL AND THE AASHTO #1 COARSE AGGREGATE.
3. AT LEAST 6 INCHES OF SUBBASE MATERIAL SHOULD BE IN PLACE ON GEOTEXTILE BEFORE PERMITTING COMPACTION EQUIPMENT PASS OVER IT.
4. UNDERDRAIN AND OUTLET PIPE TO BE INSTALLED AS DIRECTED BY THE ENGINEER.
5. APPLY UNDERCUTTING AT LOCATIONS SHOWN OR AS DIRECTED BY THE ENGINEER.

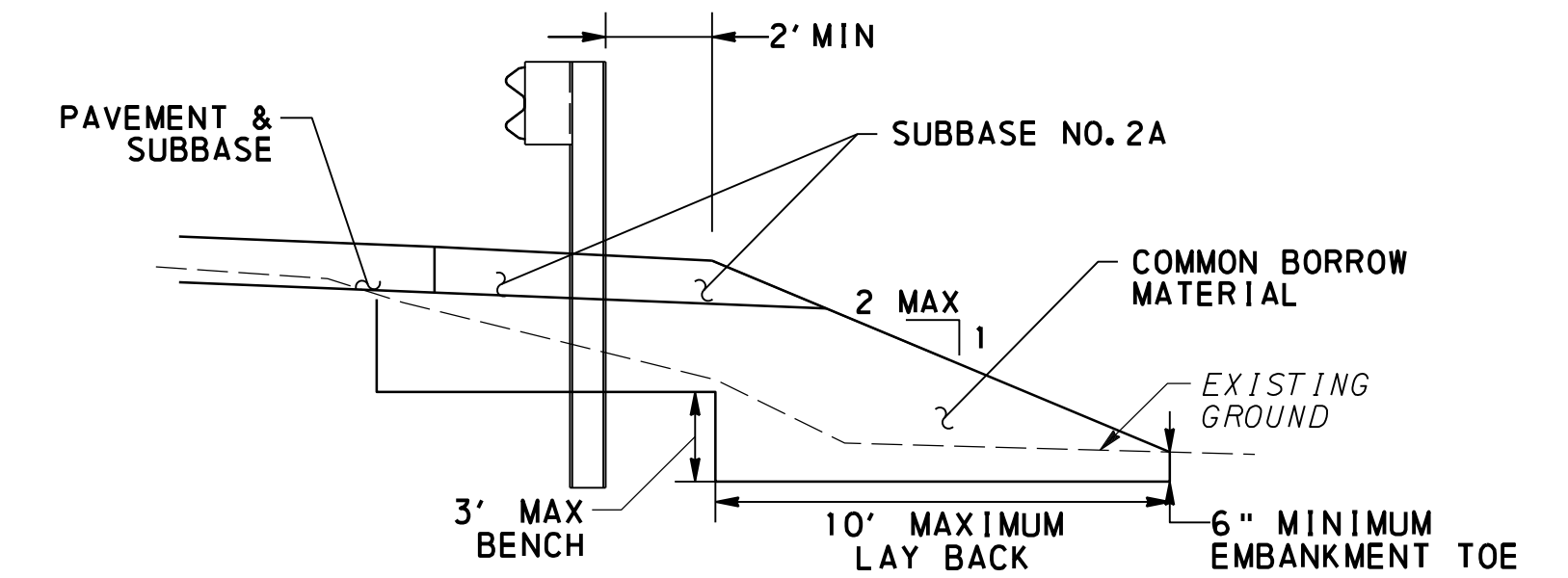


TYPE 1 SUBGRADE UNDERCUT DETAIL

(10%)
NOT TO SCALE

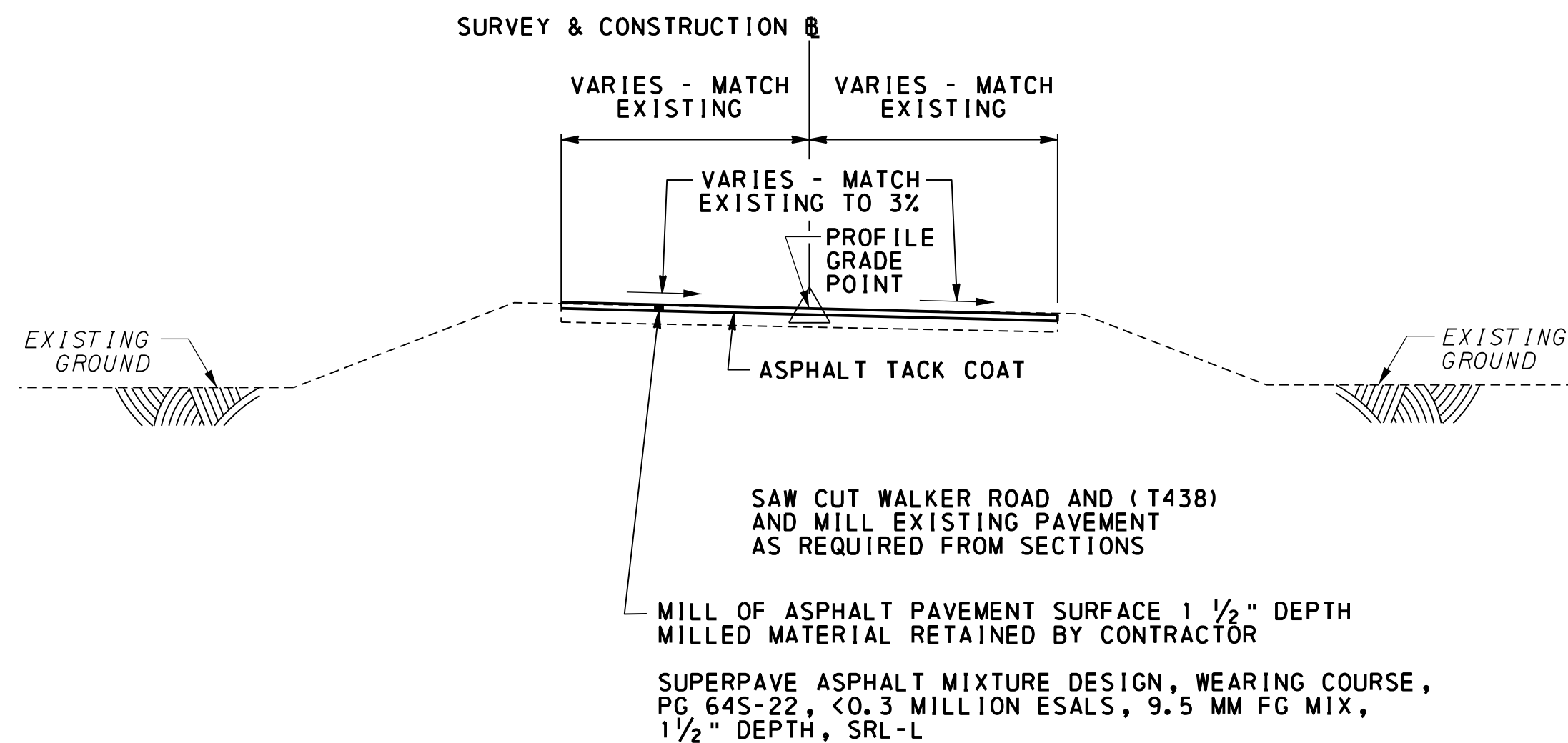
NOTES:

1. A MINIMUM OF 8" OF AASHTO #1 COARSE AGGREGATE MUST BE IN PLACE OVER GEOTEXTILE BEFORE EQUIPMENT BE PERMITTED TO PASS OVER IT.
2. A MINIMUM OF 6" OF 2A SUBBASE MUST BE IN PLACE OVER THE GEOTEXTILE BEFORE EQUIPMENT BE PERMITTED TO PASS OVER IT.
3. REFERENCE POINT FOR UNDERCUTTING IS SUBGRADE ELEVATION. APPLY UNDERCUTTING TREATMENT AT LOCATIONS DIRECTED BY THE ENGINEER. PLACE GEOTEXTILE, CLASS 4, TYPE A AND C ACCORDINGLY OR AS DIRECTED BY THE ENGINEER.
4. UNDERDRAIN AND OUTLET PIPE TO BE INSTALLED AS DIRECTED BY THE ENGINEER.



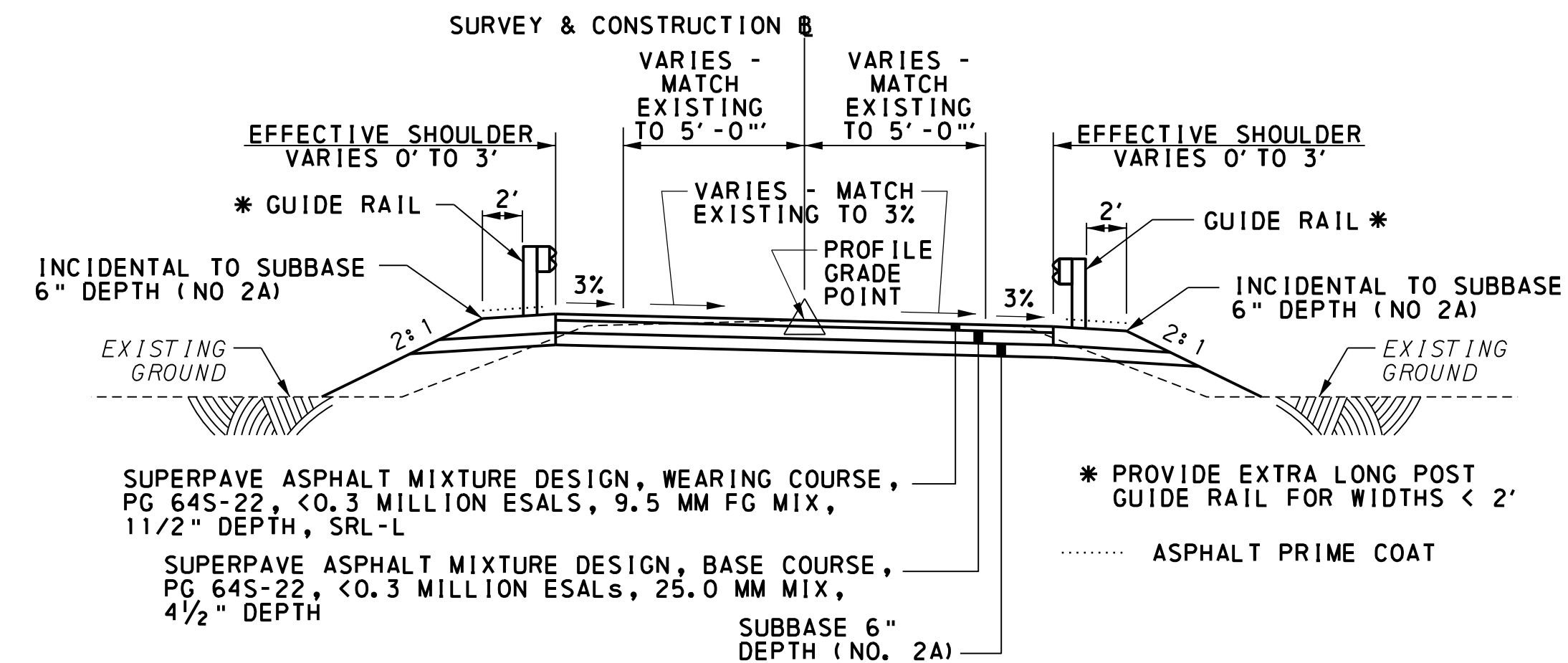
TYPICAL EMBANKMENT BENCHING

STA 30+60.00 TO STA 30+83.00
STA 31+15.00 TO STA 31+45.00
(RT/LT)
NOT TO SCALE



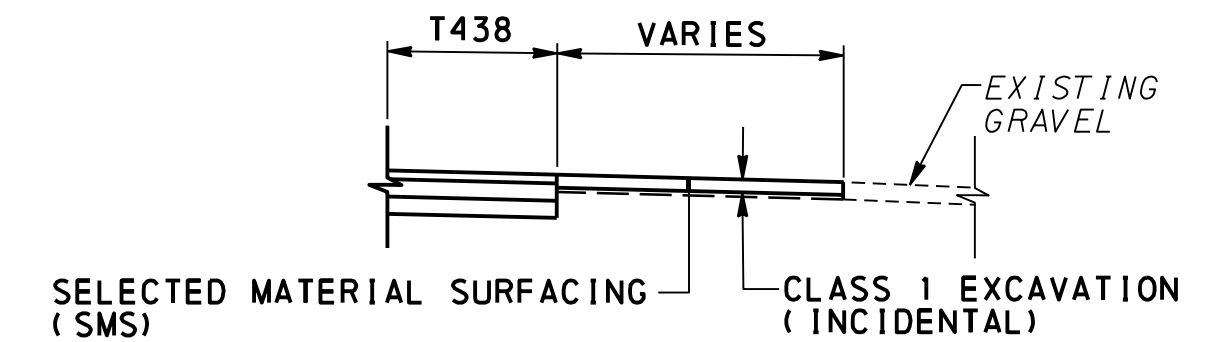
TYPICAL PAVEMENT MILL AND OVERLAY SECTION

STA 29+50.00 TO STA 30+00.00
STA 31+75.00 TO STA 32+25.00
T438 (WALKER ROAD)
NOT TO SCALE



TYPICAL SECTION

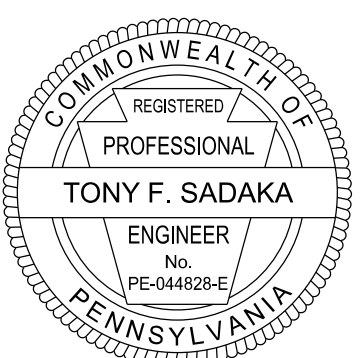
STA 30+00.00 TO STA 31+75.00
T438 (WALKER ROAD)
NOT TO SCALE



GRAVEL DRIVEWAY ADJUSTMENT

NOT TO SCALE

10/18/07 AM
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 DRAWN BY: JWL CHECKED BY: JLM



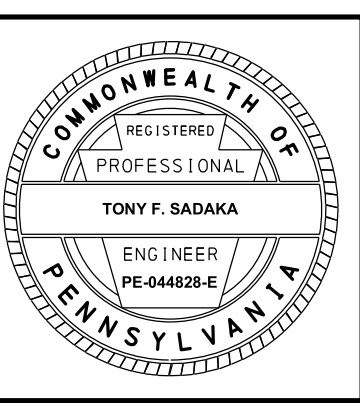
TYPICAL SECTIONS

SUMMARY

REVISION NO	REVISIONS	DATE	BY	DISTRICT	COUNTY	ROUTE	SECTION	SHEET
				12	GREENE	T-438	G103	4 OF 7
MORRIS TOWNSHIP								

◆ - SEE SPECIAL PROVISIONS

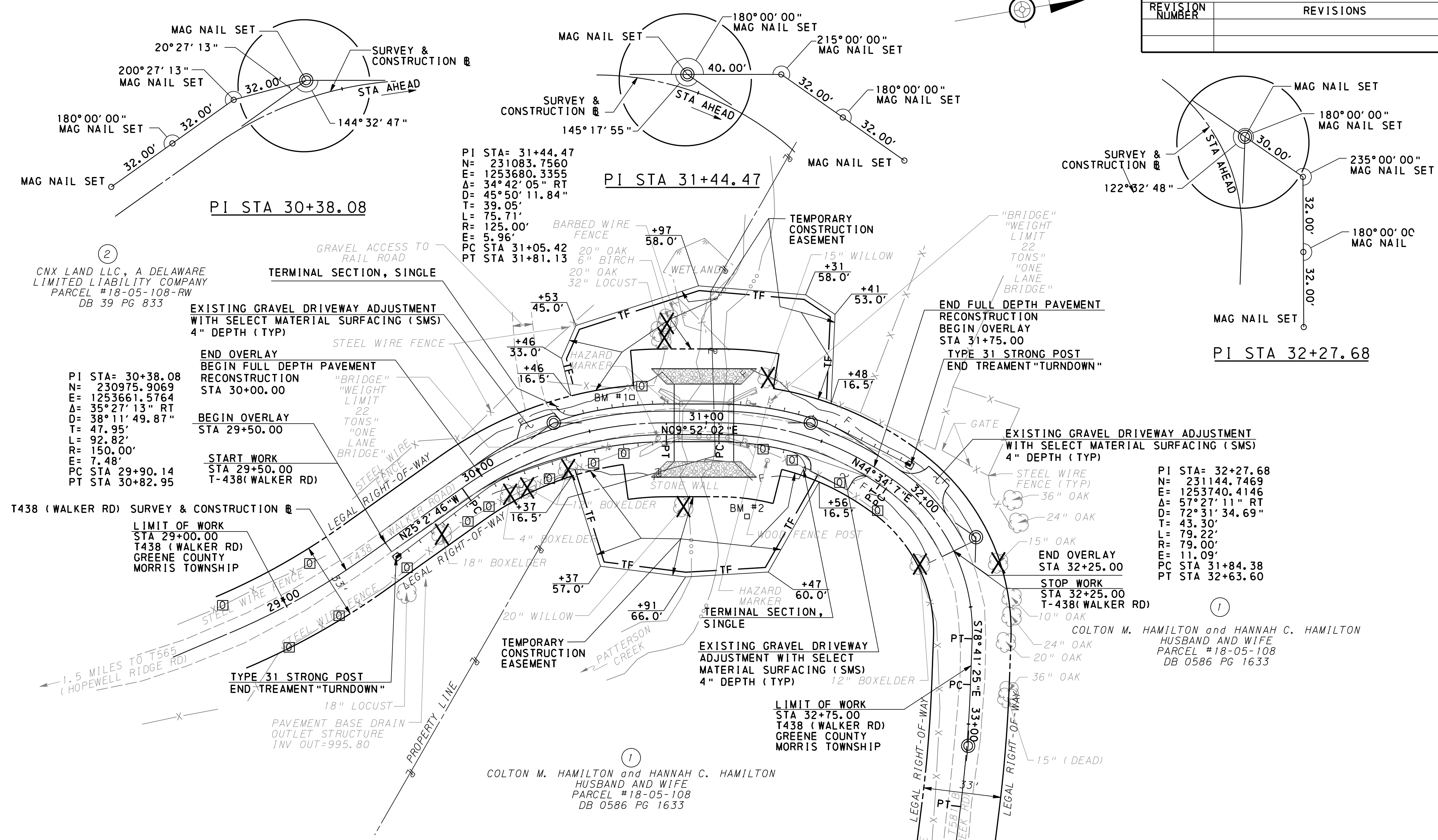
QUANTITY	ITEM NO	DESCRIPTION	DESIGN NO	FOR TAB SEE SHEET	QUANTITY	ITEM NO	DESCRIPTION	DESIGN NO	FOR TAB SEE SHEET	QUANTITY	ITEM NO	DESCRIPTION	DESIGN NO	FOR TAB SEE SHEET	QUANTITY	ITEM NO	DESCRIPTION	DESIGN NO	FOR TAB SEE SHEET
	UNIT					UNIT					UNIT					UNIT			
	0201 0001 LS	CLEARING AND GRUBBING		NO TAB	2500	0845 0001 DOLLA	UNFORESEEN WATER POLLUTION CONTROL		NO TAB										
110	0203 0001 CY	CLASS 1 EXCAVATION		5	1	0849 0020 EACH	ROCK CONSTRUCTION ENTRANCE WITH WASH RACK		E & S										
1	0208 0001 HOUR	SPECIAL ROLLING		5	1	0855 0003 EACH	PUMPED WATER FILTER BAG		E & S										
98	0208 0002 CY	EXCAVATION/BACKFILL/COMPACTION		5	1	0855 0004 EACH	REPLACEMENT PUMPED WATER FILTER BAG		E & S										
235	0212 0014 SY	GEOTEXTILE, CLASS 4, TYPE A		5	249	0867 0012 LF	COMPOST FILTER SOCK, 12" DIAMETER		E & S										
214	0212 0016 SY	GEOTEXTILE, CLASS 4, TYPE C		5		0901 0001 LS	MAINTENANCE AND PROTECTION OF TRAFFIC DURING CONSTRUCTION		NO TAB										
2500	0213 0002 DOLLA	TEMPORARY PROJECT AIR POLLUTION CONTROL		NO TAB	100	0901 0231 DAY	ADDITIONAL WARNING LIGHTS, TYPE B		TCP										
316	0313 0323 SY	SUPERPAVE ASPHALT MIXTURE DESIGN, BASE COURSE, PG 64S-22, < 0.3 MILLION ESALS, 25.0 MM MIX, 4 1/2" DEPTH		5	100	0901 0240 SF	ADDITIONAL TRAFFIC CONTROL SIGNS		TCP										
510	0350 0106 SY	SUBBASE 6" DEPTH (NO. 2A)		5	48	0931 0001 SF	POST MOUNTED SIGNS, TYPE B		S & PMP										
427	0410 0315 SY	SUPERPAVE ASPHALT MIXTURE DESIGN, WEARING COURSE, PG 64S-22, < 0.3 MILLION ESALS, 9.5 MM FG MIX, 1 1/2" DEPTH, SRL-L		5	9	0937 0106 EACH	GUIDE RAIL MOUNTED DELINEATOR TYPE B, (W/B)		S & PMP										
428	0460 0003 SY	ASPHALT TACK COAT (NTT/CNTT)		5	9	0937 0113 EACH	GUIDE RAIL MOUNTED DELINEATOR TYPE D, (W/B)		S & PMP										
83	0461 0001 SY	ASPHALT PRIME COAT		5	6	0971 0001 EACH	REMOVE POST MOUNTED SIGNS, TYPE B		S & PMP										
112	0491 0012 SY	MILLING OF ASPHALT PAVEMENT SURFACE, 1 1/2" DEPTH, MILLED MATERIAL RETAINED BY CONTRACTOR		5		1018 0001 LS	REMOVAL OF EXISTING BRIDGE		NO TAB										
20	0515 0001 LF	SAWING AND SEALING OF ASPHALT OVERLAYS		5	EITHER	8603 0001 LS	25'-4" X 8'-7" ALUMINUM STRUCTURAL PLATE BOX CULVERT, STRUCTURE AS DESIGNED, L-591		1	STR									
	0608 0001 LS	MOBILIZATION		NO TAB	OR	8510 0001 LS	PRECAST CONCRETE BOX CULVERT		1	STR									
2	0620 0400 EACH	TERMINAL SECTION, SINGLE		5		9000 0001 LS	TEMPORARY STREAM DIVERSION		E & S										
270	0620 1600 LF	TYPE 31-S GUIDE RAIL		5	20000	9000 0002 DOLLA	REPAIR OF ACCESS ROADS		5										
2	0620 1650 EACH	TYPE 31-STRONG POST END TREATMENT		5	328	9000 0003 LF	TEMPORARY FENCE		5										
4	0677 0001 CY	SELECTED MATERIAL SURFACING, 4" DEPTH		5															
	0686 0050 LS	CONSTRUCTION SURVEYING, TYPE D		NO TAB															
44	0804 0025 LB	SEEDING AND SOIL SUPPLEMENTS - FORMULA B RESIDENTIAL MIX, INCLUDING MULCH		E & S															
7	0804 0032 LB	SEEDING - FORMULA T TEMPORARY GRASS MIX, INCLUDING MULCH		E & S															
159	0806 0113 SY	TEMPORARY SHORT-TERM, ROLLED EROSION CONTROL PRODUCT, TYPE 2D		E & S															
38	0811 0003 LF	TEMPORARY PROTECTIVE FENCE		E & S															



DISTRICT	COUNTY	ROUTE	SECTION	SHEET
12-0	GREENE	T438	G103	6 OF 7
MORRIS TOWNSHIP				
REVISION NUMBER	REVISIONS			DATE BY

BM#1 ELEV 999.27
 STA 30+69.37 OFF 11.54 LT
 N 231,010.6191,
 E 1,253,656.5771
 IRON PIN SET

BM#2 ELEV 995.85
 STA 31+22.78 OFF 39.07 RT
 N 231,050.1661
 E 1,253,714.9867
 IRON PIN SET



②
 CNX LAND LLC, A DELAWARE
 LIMITED LIABILITY COMPANY
 PARCEL #18-05-108-RW
 DB 39 PG 833

PI STA= 30+38.08
 N= 230975.9069
 E= 1253661.5764
 Δ= 35°27'13" RT
 D= 38°11'49.87"
 T= 47.95'
 L= 92.82'
 R= 150.00'
 E= 7.48'
 PC STA 29+90.14
 PT STA 30+82.95

T438 (WALKER RD) SURVEY & CONSTRUCTION
 LIMIT OF WORK
 STA 29+00.00
 T438 (WALKER RD)
 GREENE COUNTY
 MORRIS TOWNSHIP

PI STA= 31+44.47
 N= 231083.7560
 E= 1253680.3355
 Δ= 34°42'05" RT
 D= 45°50'11.84"
 T= 39.05'
 L= 75.71'
 R= 125.00'
 E= 5.96'
 PC STA 31+05.42
 PT STA 31+81.13

PI STA= 32+27.68
 N= 231144.7469
 E= 1253740.4146
 Δ= 57°27'11" RT
 D= 72°31'34.69"
 T= 43.30'
 L= 79.22'
 R= 79.00'
 E= 11.09'
 PC STA 31+84.38
 PT STA 32+63.60

①
 COLTON M. HAMILTON and HANNAH C. HAMILTON
 HUSBAND AND WIFE
 PARCEL #18-05-108
 DB 0586 PG 1633

PLAN T438(WALKER RD)

HYDRAULIC DATA
 PATTERSON CREEK

DRAINAGE AREA: 5.92 SQ MILES
 FLOOD OF RECORD: UNKNOWN

EXISTING	PROPOSED
DESIGN STORM	DESIGN STORM
DISCHARGE: 635 CFS	DISCHARGE: 635 CFS
RETURN PERIOD: 10 YEARS	RETURN PERIOD: 10 YEARS
WATER SURFACE ELEV: 997.48'	WATER SURFACE ELEV: 996.50'
VELOCITY: 6.77 FPS	VELOCITY: 9.06 FPS
100 YEAR FLOOD	100 YEAR FLOOD
DISCHARGE: 1260 CFS	DISCHARGE: 1260 CFS
WATER SURFACE ELEV: 1001.14'	WATER SURFACE ELEV: 997.95'
VELOCITY: 5.70 FPS	VELOCITY: 11.94 FPS

EXISTING STRUCTURE DATA

STA - 30+98.97
 TYPE - CONCRETE ENCASED STEEL I-BEAM
 NORMAL CLEAR SPAN - 1 @ 21'-0" (±)
 SKEW 90°
 CLEAR ROADWAY WIDTH - 13'-9"
 UNDERCLEARANCE - 7.5'
 LOW CHORD ELEV - 998.73'

PROPOSED STRUCTURE DATA

STA - 30+98.97
 TYPE - ALUMINUM STRUCTURAL
 PLATE BOX CULVERT
 NORMAL CLEAR SPAN - 25'-4"
 SKEW 90°
 CLEAR ROADWAY WIDTH - 16'-0"
 UNDERCLEARANCE - 7.6'
 LOW CHORD ELEV - 998.91'

- LEGEND**
- ⊗ EXISTING TREES WITHIN LEGAL RIGHT OF WAY AND TEMPORARY CONSTRUCTION EASEMENT (TO BE REMOVED)
 - ⊠ EXISTING FENCE TO BE REMOVED BY CONTRACTOR AS NEEDED TO COMPLETE THE PROJECT (INCIDENTAL TO MOBILIZATION ITEM)
 - ① PARCEL IDENTIFICATION NUMBER
 - ROCK - REFER TO STRUCTURE PLAN
 - TF — TEMPORARY FENCE



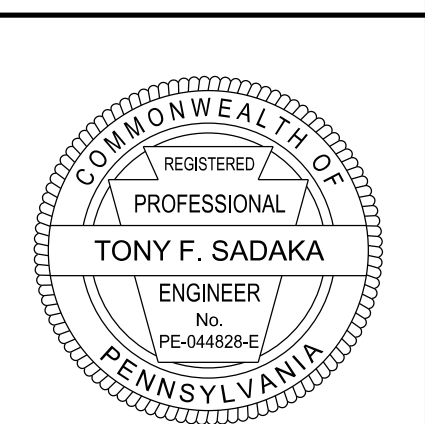
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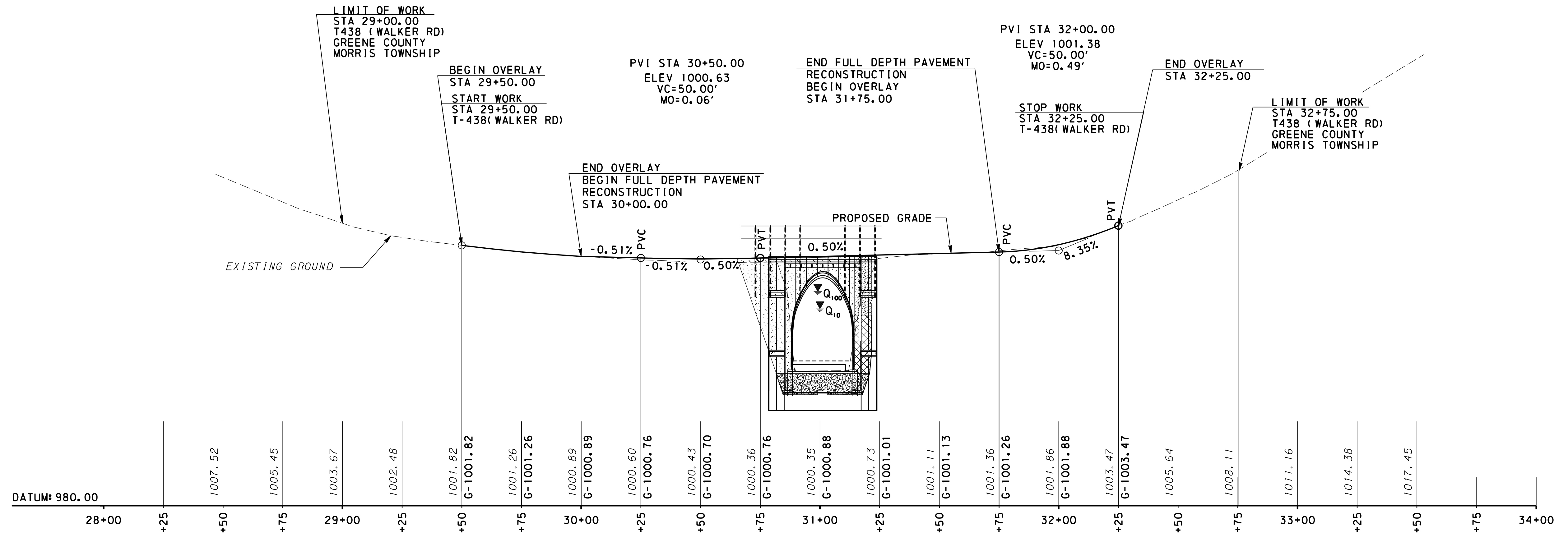
FOR PROFILE SEE SHEET 7

PLAN SHEET

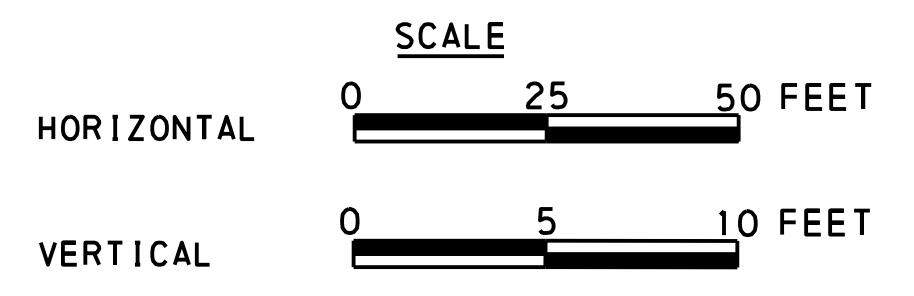
SURVEY BOOK # NA



DISTRICT	COUNTY	ROUTE	SECTION	SHEET
12-0	GREENE	T438	G103	7 OF 7
MORRIS TOWNSHIP				
REVISION NUMBER	REVISIONS			DATE BY



PROPOSED T438 (WALKER RD) ROADWAY PROFILE



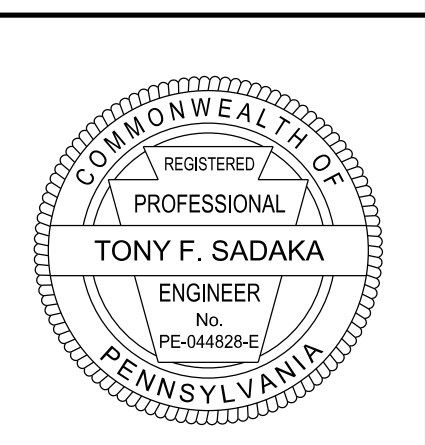
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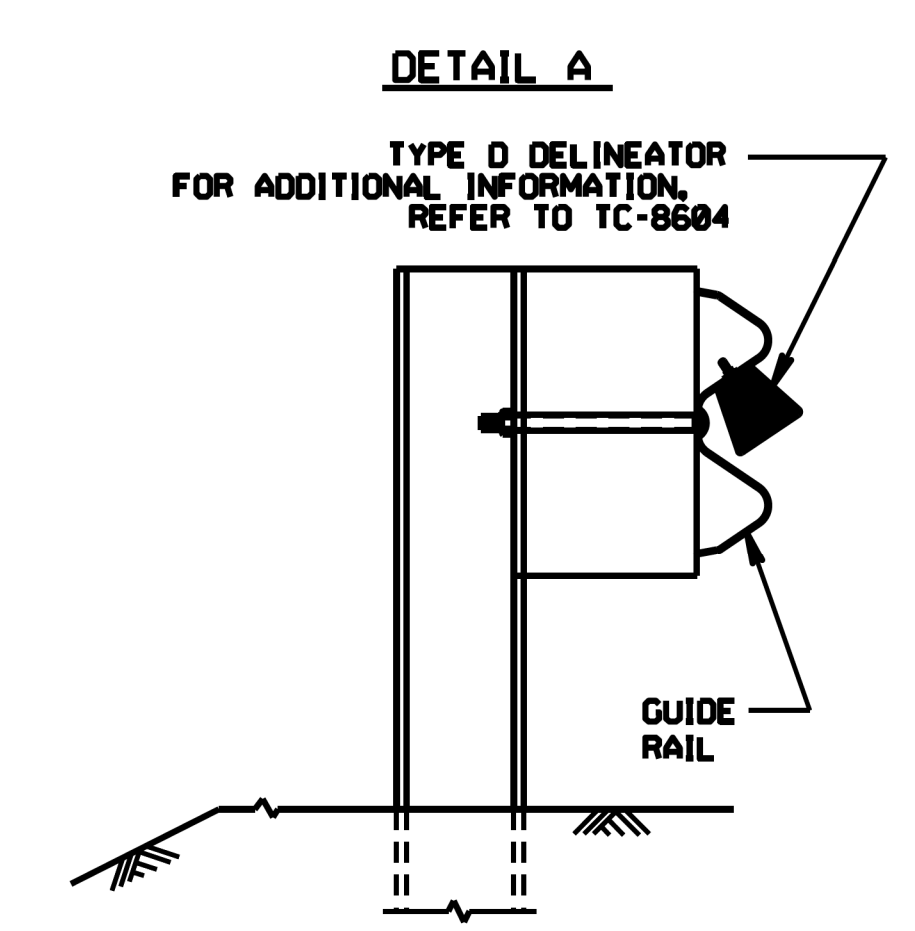
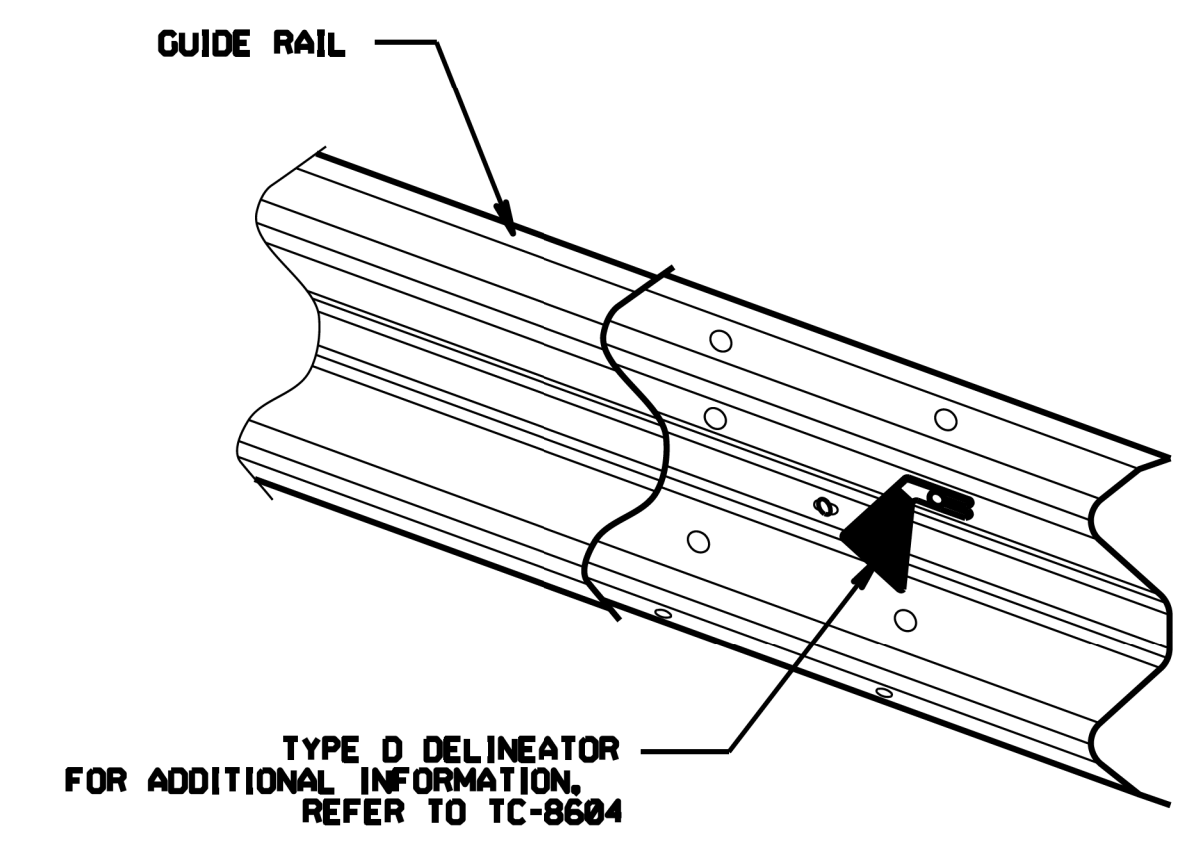
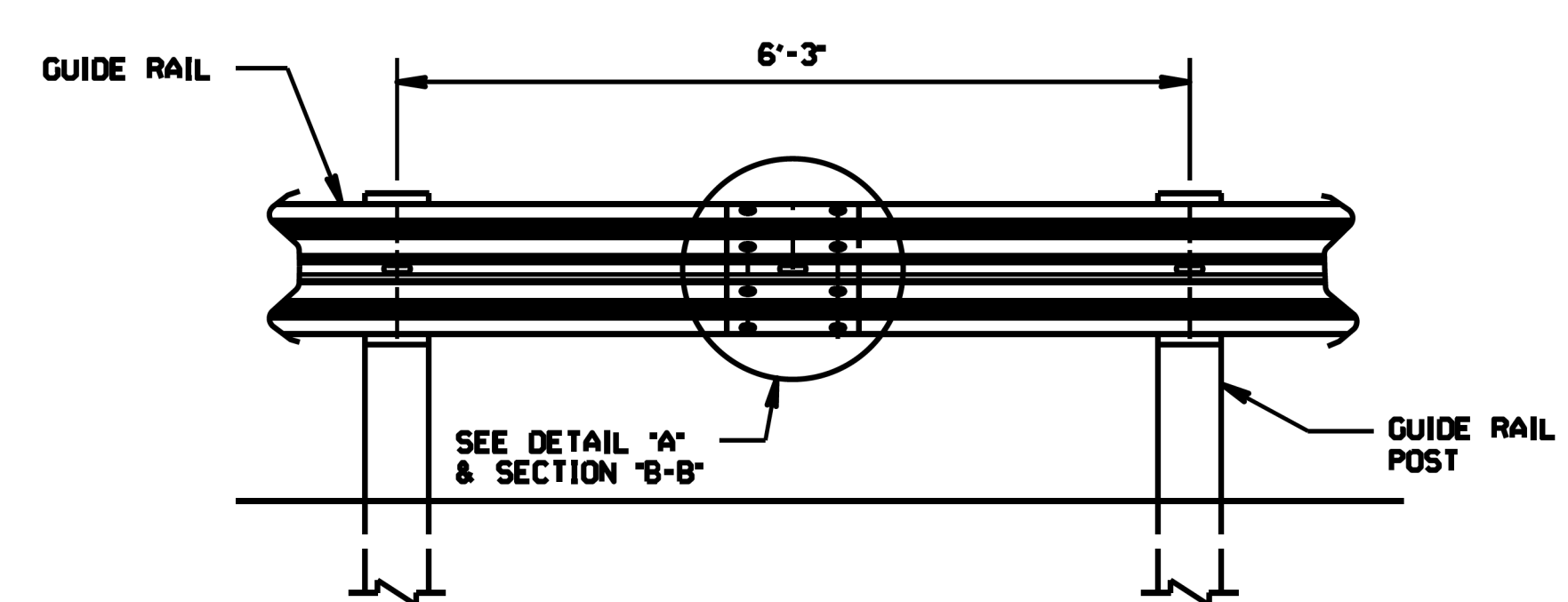
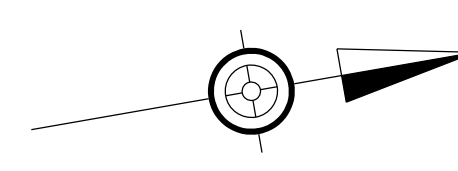
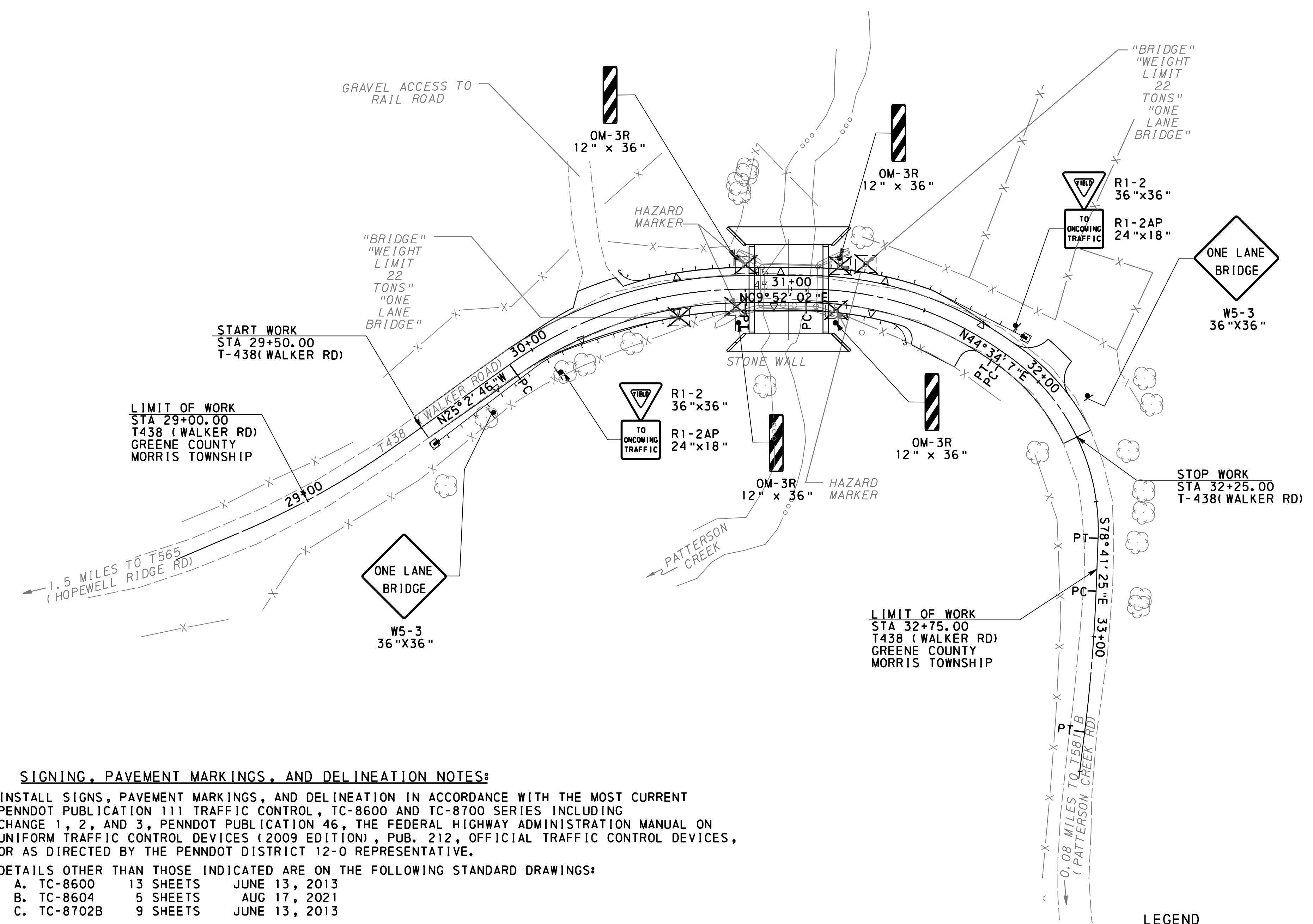
FOR PLAN SEE SHEET 6

PROFILE SHEET

SURVEY BOOK # NA

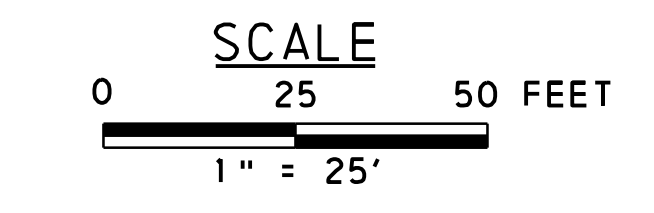


DISTRICT	COUNTY	ROUTE	SECTION	SHEET
12-0	GREENE	T438	G103	1 OF 1
MORRIS TOWNSHIP				
REVISION NUMBER	REVISIONS			DATE BY



METHOD OF INSTALLING TYPE D DELINEATOR

NOTE 1) NOT WITHIN THE LENGTH OF AN END TREATMENT
 NOTE 2) TYPE D DELINEATOR INSTALLATION FOR ALL STRONG POST GUIDE RAIL



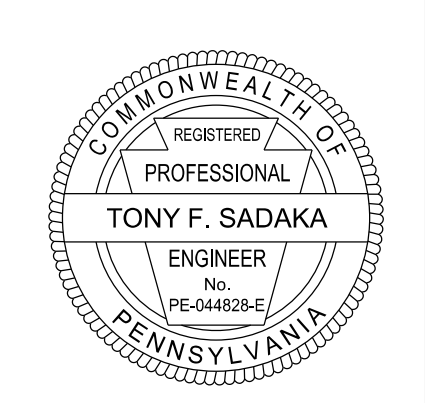
SIGNING, PAVEMENT MARKINGS, AND DELINEATION NOTES:

- INSTALL SIGNS, PAVEMENT MARKINGS, AND DELINEATION IN ACCORDANCE WITH THE MOST CURRENT PENNDOT PUBLICATION 111 TRAFFIC CONTROL, TC-8600 AND TC-8700 SERIES INCLUDING CHANGE 1, 2, AND 3, PENNDOT PUBLICATION 46, THE FEDERAL HIGHWAY ADMINISTRATION MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES (2009 EDITION), PUB. 212, OFFICIAL TRAFFIC CONTROL DEVICES, OR AS DIRECTED BY THE PENNDOT DISTRICT 12-0 REPRESENTATIVE.
- DETAILS OTHER THAN THOSE INDICATED ARE ON THE FOLLOWING STANDARD DRAWINGS:
 - TC-8600 13 SHEETS JUNE 13, 2013
 - TC-8604 5 SHEETS AUG 17, 2021
 - TC-8702B 9 SHEETS JUNE 13, 2013
- ANY LEGAL OR PRIVATE SIGN THAT IS TO BE REMOVED FOR CONSTRUCTION THAT IS WITHIN THE PROJECT LIMITS BUT IS NOT INCLUDED IN THE PROJECTS SIGN TABULATIONS SHALL BE REINSTALLED AT OR NEAREST ITS ORIGINAL LOCATION. IF A SIGN IS DETERMINED UNNECESSARY, IT SHALL BE RETURNED TO ITS OWNER.
- ANY SIGN THAT IS TO REMAIN OR BE REINSTALLED, THAT BECOMES DAMAGED IN ANY WAY DURING CONSTRUCTION, REMOVAL, STORAGE, OR REINSTALLATION, SHALL BE REPLACED IN KIND WITH A NEW SIGN AT NO ADDITIONAL COST TO THE DEPARTMENT.
- PLACE ALL SIGNS ENTIRELY WITHIN THE LEGAL RIGHT-OF-WAY.
- FOR FABRICATION OF ALL STANDARD SIGNS, REFER TO PENNSYLVANIA DEPARTMENT OF TRANSPORTATION PUBLICATION 236M.
- ALL TYPE B POST MOUNTED SIGNS ARE TO BE INSTALLED USING SQUARE CHANNEL POSTS AND ANCHORS OF THE APPROPRIATE SIZE. ANCHORS SHALL NOT EXTEND MORE THAN 1 INCH ABOVE THE GROUND LINE.
- DO NOT REMOVE EXISTING SIGNS UNTIL THE NEW SIGNS ARE INSTALLED. IF EXISTING SIGNS CONFLICT WITH CONSTRUCTION, INSTALL TEMPORARY SIGNS AS DIRECTED BY A PENNDOT DISTRICT 12-0 REPRESENTATIVE. DO NOT REMOVE THE TEMPORARY SIGNS UNTIL THE NEW SIGNS ARE INSTALLED.
- CONTRACTOR SHALL CALL PA ONE CALL SYSTEM, INC AT 1-800-242-1776 PRIOR TO DIGGING FOR ALL SIGNS.
- APPLY ALL PAVEMENT MARKINGS AT THE WIDTH INDICATED.
- USE WATERBORNE PAINT FOR ALL LONGITUDINAL LINES. ON THE FINAL BITUMINOUS WEARING COURSE OR CONCRETE SURFACE, APPLY TWO APPLICATIONS OF PAINT. APPLY THE SECOND APPLICATION AFTER THE FIRST IS DRY, WITHIN 24 HOURS.
- FOR ALL TRANSVERSE APPLICATIONS, USE EPOXY (ON CONCRETE) AND HOT THERMOPLASTIC (ON ASPHALT).
- APPLY ALL PAVEMENT MARKINGS IN ACCORDANCE WITH THE MANUFACTURER'S RECOMMENDATIONS.
- INSTALL GUIDE RAIL DELINEATORS AS PER TC-8604.

- LEGEND**
- ⊙ - EXISTING SIGN LOCATION
 - - NEW SIGN LOCATION
 - ⊗ - EXISTING SIGN - TO BE REMOVED
 - △ - GUIDERAIL MOUNTED DELINEATOR TYPE B AND D, (W/B)

NOTE:
 ALL EXISTING SIGNS BECOME THE PROPERTY OF THE COUNTY. STOCKPILE SIGNS ON SITE FOR PICK UP BY COUNTY

SIGNING AND PAVEMENT MARKING PAY ITEMS			
ITEM NO.	QUANTITY	UNIT	DESCRIPTION
0931-0001	48	SF	POST MOUNTED SIGNS, TYPE B
0937-0106	9	EACH	GUIDE RAIL MOUNTED DELINEATOR TYPE B, (W/B)
0937-0113	9	EACH	GUIDE RAIL MOUNTED DELINEATOR TYPE D, (W/B)
0971-0001	6	EACH	REMOVE POST MOUNTED SIGNS, TYPE B



SIGNING AND PAVEMENT MARKING PLAN

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DISTRICT	COUNTY	ROUTE	SECTION	SHEET
12-0	GREENE	T438	G103	2 OF 2
MORRIS TOWNSHIP				
REVISION NUMBER	REVISIONS			DATE BY

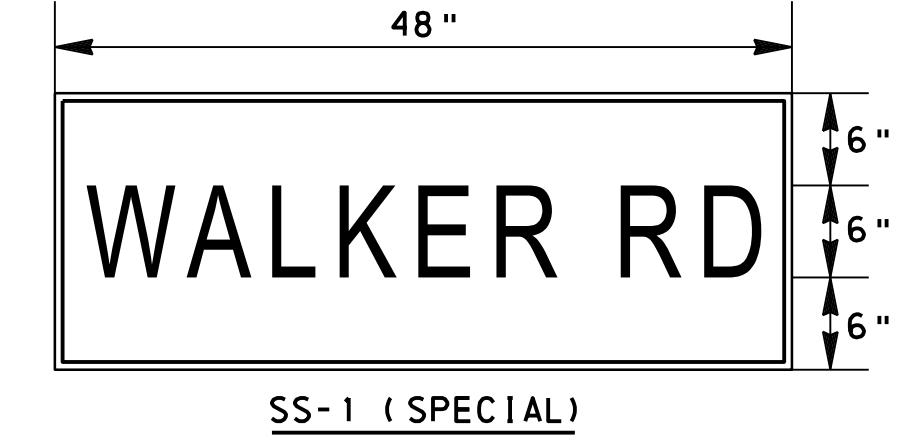
**ITEM 0901-0001
MAINTENANCE AND PROTECTION
OF TRAFFIC DURING CONSTRUCTION
(FOR INFORMATION ONLY)**

SIGN ASSEMBLY INSTALLATIONS				
SYMBOL	STD. NO.	SIZE (IN)	DESCRIPTION	QTY.
A	W20-3 W30-1-4	36 X 36 20 X 6	ROAD CLOSED 1/2 MILE TYPE III BARRICADE (1) TYPE "B" FLASHER	2
B	W20-3	36 X 36 20 X 6	ROAD CLOSED TYPE III BARRICADE (1) TYPE "B" FLASHER	4
C	R11-3A M4-10R	60 X 30 48 X 18	ROAD CLOSED 1 MILE AHEAD LOCAL TRAFFIC ONLY DETOUR ARROW RIGHT TYPE III BARRICADE (1) TYPE "B" FLASHER	2
D	M4-9S	30 X 24	DETOUR, STRAIGHT	4
E	M4-9L	30 X 24	DETOUR, LEFT	2
F	M4-9R	30 X 24	DETOUR, RIGHT	2
G	M4-9SL	30 X 24	LEFT ADVANCE DETOUR	1
H	M4-9SR	30 X 24	RIGHT ADVANCE DETOUR	1
I	M4-8A	24 X 18	END DETOUR	2
J	SS-1 R11-2-1 W20-1 W30-1	48 X 18 48 X 30 36 X 36 20 X 6	WALKER ROAD BRIDGE CLOSED DETOUR AHEAD	4
K	W23-101	96 X 48	THIS BRIDGE TO BE CLOSED FOR CONSTRUCTION (DATE) *	2

* BRIDGE ANTICIPATED CLOSURE DATE

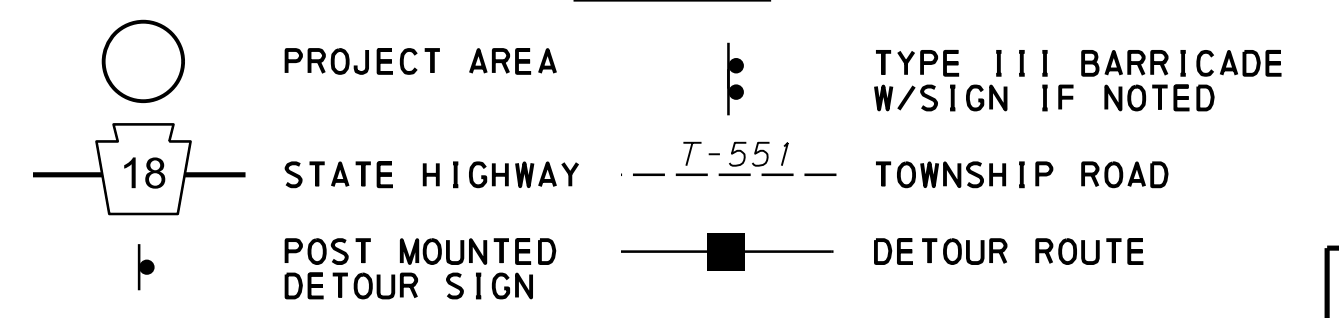
NOTES:

1. W23-101 SIGNS MUST BE PLACED AT THE BRIDGE TWO (2) WEEKS IN ADVANCE OF THE CLOSURE.
2. REPLACE W23-101 SIGNS WITH R11-2-1 SIGNS WHEN ROAD IS CLOSED.



TRAFFIC CONTROL DEVICES PAYABLE ITEMS			
ITEM NO.	QUANTITY	UNIT	DESCRIPTION
0901-0231	100	DAY	ADDITIONAL WARNING LIGHTS, TYPE B
0901-0240	100	SF	ADDITIONAL TRAFFIC CONTROL SIGNS

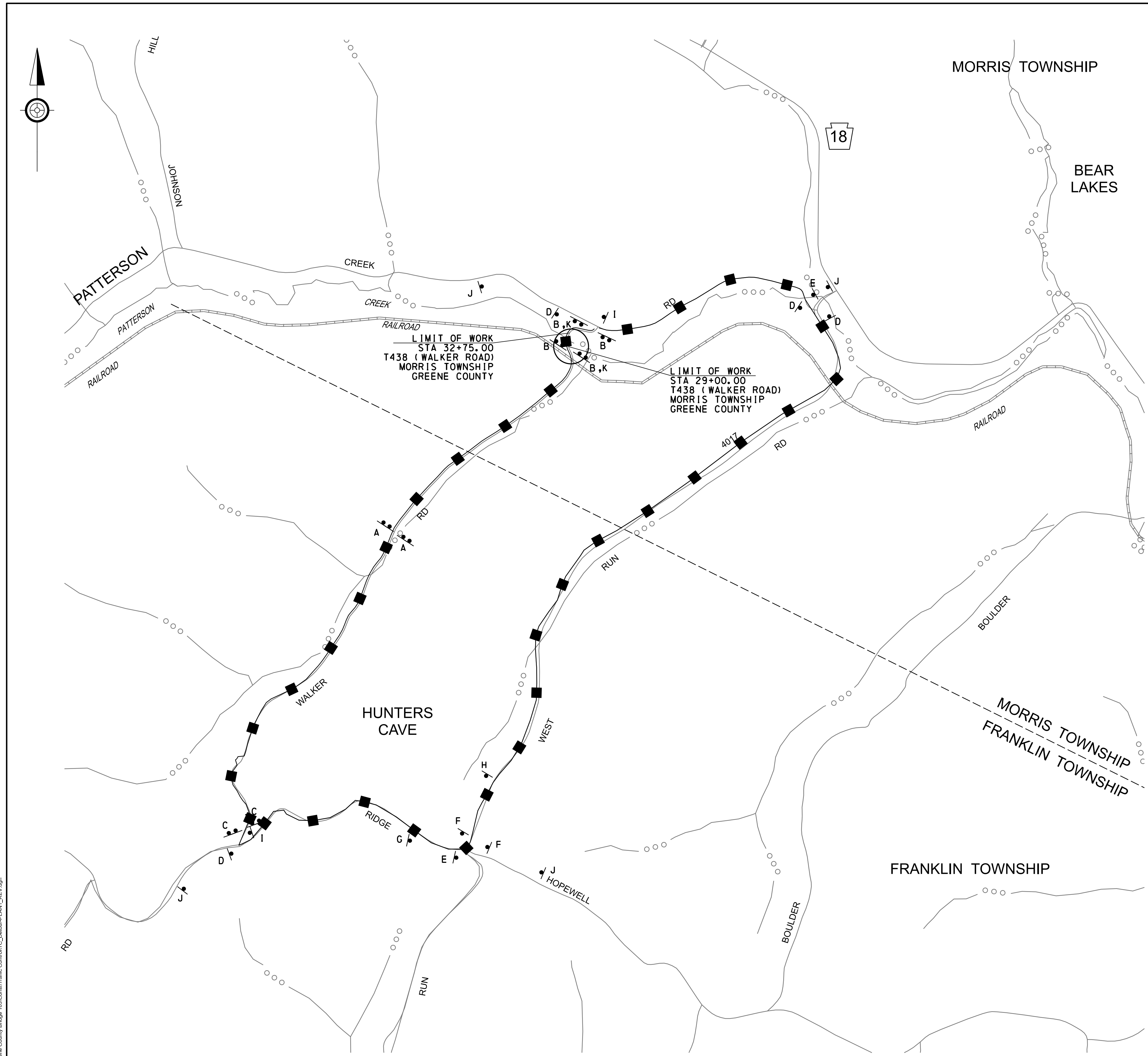
LEGEND



SCALE

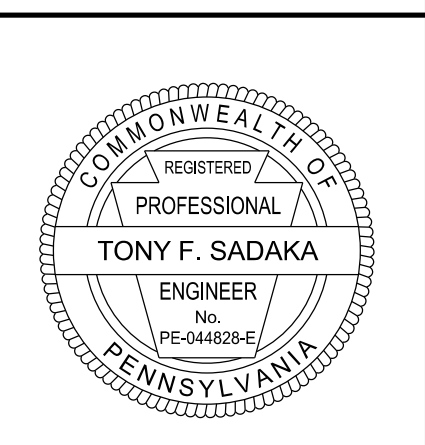


TRAFFIC CONTROL DETOUR PLAN



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DISTRICT	COUNTY	ROUTE	SECTION	SHEET
12-0	GREENE	T438	G103	1 OF 2
MORRIS TOWNSHIP				
REVISION NUMBER	REVISIONS			DATE BY

GENERAL NOTES

THIS WORK CONSISTS OF MAINTENANCE AND THE PROTECTION OF THE TRAVELING PUBLIC APPROACHING THE CONSTRUCTION AREA AND WITHIN THE LIMITS OF CONSTRUCTION AND ON APPROVED DETOURS.

FURNISH, ERECT, PLACE AND MAINTAIN TRAFFIC CONTROL SIGNS AND DEVICES AND MAINTAIN TRAFFIC DURING HOURS OF CONSTRUCTION AND AT ALL OTHER TIMES IN ACCORDANCE WITH THE METHODS INDICATED ON THESE DRAWINGS AND:

- 1) THE SPECIAL PROVISIONS OF THE CONTRACT.
- 2) PDT PUBLICATION NO. 212, OFFICIAL TRAFFIC CONTROL DEVICES.
- 3) PDT PUBLICATION NO. 213, TEMPORARY TRAFFIC CONTROL GUIDELINES.
- 4) PDT PUBLICATION NO. 35, APPROVED CONSTRUCTION MATERIALS (BULLETIN 15).
- 5) PDT PUBLICATION NO. 408/2026, SPECIFICATIONS.
- 6) MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES (MUTCD).
- 7) PDT PUBLICATION NO. 236, HANDBOOK OF APPROVED SIGNS, AND MOST CURRENT.
- 8) PDT PUBLICATION NO. 111M, SIGNING STANDARDS, AND MOST CURRENT.
- 9) PAVEMENT MARKINGS TC 8600 AND MOST CURRENT.

IMMEDIATELY UPON COMPLETION OF THE WORK, REMOVE AND RETAIN THE DEVICES UNLESS OTHERWISE SPECIFIED IN THE SPECIAL PROVISIONS. PENNDOT WILL REMOVE ANY TRAFFIC CONTROL DEVICES ERECTED BY DEPARTMENT FORCES.

THE CONTRACTOR IS RESPONSIBLE FOR CONTACTING THE PENNSYLVANIA ONE CALL SYSTEM, INC. AT 1-800-242-1776 AT LEAST 3-FULL WORKING DAYS BEFORE DIGGING. PA ONE CALL SHALL BE CONTACTED BEFORE ANY SIGN POST ANCHOR IS DRIVEN INTO THE GROUND FOR TEMPORARY AND PERMANENT SIGNING.

ALL TRAFFIC CONTROL DEVICES SHALL BE IN PLACE AND INSPECTED BY THE PROJECT INSPECTOR DAILY PRIOR TO THE START OF WORK.

ALL TRAFFIC CONTROL DEVICES SHALL BE IN PLACE AND INSPECTED BY THE PROJECT INSPECTOR DAILY PRIOR TO THE END OF WORK.

NOTIFY THE DISTRICT TRAFFIC ENGINEER IN WRITING TWO WEEKS PRIOR TO MAKING ANY TRAFFIC PATTERN CHANGES AND WHEN THE PROJECT IS COMPLETE.

NO ROADWAY IS PERMITTED TO HAVE A LANE CLOSURE OR ROAD CLOSURE STARTING NOVEMBER 1, AND ENDING APRIL 1, WITHOUT AN APPROVED REVISED TRAFFIC CONTROL PLAN ADDRESSING WINTER OPERATIONS.

WHEN WORK IS COMPLETED FOR A PERIOD OF ONE WEEK (7 CONSECUTIVE CALENDAR DAYS) OR GREATER, THEN THE REDUCED SPEED LIMITS SHALL RETURN TO THE NORMAL POSTED SPEED LIMIT, THE SIGNAGE SHALL BE REMOVED BY DEPARTMENT FORCES AND STORED AT THE COUNTY MAINTENANCE BUILDING FOR PICK-UP BY THE CONTRACTOR AT NO ADDITIONAL COST TO THE DEPARTMENT. AFTER 30 DAYS BECOMES DEPARTMENT PROPERTY.

WHEN WORK IS COMPLETED FOR A PERIOD OF ONE WEEK (7 CONSECUTIVE CALENDAR DAYS) OR GREATER, THEN ALL LEAD IN SIGNAGE SHALL BE REMOVED BY DEPARTMENT FORCES AND STORED AT THE COUNTY MAINTENANCE BUILDING FOR PICK-UP BY THE CONTRACTOR AT NO ADDITIONAL COST TO THE DEPARTMENT. AFTER 30 DAYS BECOMES DEPARTMENT PROPERTY.

INSPECTOR-IN-CHARGE SHALL REPORT ALL TRAFFIC INCIDENTS TO THE DISTRICT TRAFFIC ENGINEER BY COPY OF THE TRAFFIC ACCIDENT REPORT FROM THE PA. STATE POLICE.

ALL SIGNS NOT IN USE SHALL BE EITHER COVERED OR REMOVED FROM SIGHT. THE CONTRACTOR IS TO REINSTALL ALL SIGNS THAT WERE REMOVED FOR THE CONSTRUCTION PROJECT. DO NOT PLACE ANY ADHESIVE ON THE FACE OF THE SIGN.

ALL EXISTING SIGNAGE WITH CONFLICTING MESSAGES SHALL BE COVERED OR REMOVED AND REINSTALLED WHEN PROJECT IS COMPLETE.

ALL SIGNS AND DEVICES ARE TO BE NEW AT THE BEGINNING OF THE PROJECT AND ARE TO BE MAINTAINED TO PENNDOT'S SATISFACTION THROUGHOUT THE PROJECT DURATION.

THE CONTRACTOR IS RESPONSIBLE FOR MAINTENANCE AND PROTECTION OF PEDESTRIANS WITHIN THE WORK AREA, PRINCIPALLY ADJACENT TO EXCAVATION AREAS.

REMOVE ALL CONFLICTING PAVEMENT MARKINGS.

REINSTALL ALL TEMPORARY PAVEMENT MARKINGS AS DIRECTED DURING CONSTRUCTION. PAVEMENT MARKINGS SHALL MEET PENNDOT'S SATISFACTION. EPOXY PAVEMENT MARKINGS SHALL BE USE FROM OCT 01 TO APRIL 01.

ALL SIGNS SHALL REFLECTORIZED WITH MATERIAL THAT MEETS PENNDOT SPECIFICATIONS FOR SHEET REFLECTIVE MATERIAL, TYPE III OR VII FLUORESCENT.

ALL CHANNELIZING DEVICES MUST HAVE A REFLECTIVE SHEETING A MINIMUM OF 150 SQUARE INCHES FOR SHORT TERM OPERATIONS AND 270 SQUARE INCHES FOR LONG TERM OPERATIONS.

THE REFLECTIVE MATERIAL FOR CHANNELIZING DEVICES SHALL BE A MATERIAL THAT MEETS PENNDOT CURRENT SPECIFICATIONS FOR SHEET REFLECTIVE MATERIAL, BARRICADE RAILS AND VERTICAL PANELS WHICH WILL REQUIRE TYPE III OR VII.

THIS TRAFFIC CONTROL PLAN DOES NOT RELIEVE THE CONTRACTOR OF HIS RESPONSIBILITY AS SPECIFIED IN SECTION 901.3 OF PUBLICATION NO. 408.

ADJUST ALL DISTANCES SLIGHTLY TO FIT FIELD CONDITIONS.

DO NOT PARK, STOP OR STORE ANY EQUIPMENT, WHICH IS NOT BEING USED FOR THE CURRENT WORK OPERATION, ADJACENT TO AN ACTIVE TRAVEL LANE. STORE ALL EQUIPMENT OUTSIDE OF THE WORK AREA IN A CLEAR ZONE SUITABLY PROTECTED STAGING AREA.

THE TRAFFIC CONTROL DEVICES SHOWN DO NOT NECESSARILY DEPICT THE ACTUAL NUMBER OF DEVICES REQUIRED.

MOUNT ALL SIGNS ON TYPE III BARRICADES (SEE PUB. 213 PATA SIGN LAYOUT AND TC-8716 AND TC-8717) UNLESS OTHERWISE SHOWN OR DIRECTED.

ERECT ALL POST MOUNTED SIGNS IN ACCORDANCE WITH TC-8716 & TC-8717 AND MOST CURRENT (TRAFFIC CONTROL SIGNING STANDARDS).

ANY SPECIAL SIGNS ARE TO BE FABRICATED IN ACCORDANCE WITH TC STANDARDS 8700 AND MOST CURRENT.

ATTACH TYPE C LIGHTS TO ALL DRUMS OR CHANNELIZING DEVICES USED TO PROTECT OPEN EXCAVATIONS ADJACENT TO ROADWAY.

ATTACH TYPE C LIGHT ON EVERY THIRD DEVICE IN THE LONGITUDINAL AND EVERY DEVICE IN TAPER.

PROVIDE NEW REFLECTIVE SHEETING FOR ALL SIGNS AND DEVICES, I.E. SUPPORTS, SIGNS BLANKS, DRUMS, VERTICAL PANELS, ECT. SHALL BE CLEAN AND FREE FROM ALL DEFECTS.

THE CONTRACTOR IS RESPONSIBLE FOR MAINTAINING ACCESS TO ALL BUSINESSES AND DWELLINGS DURING ALL PHASES OF CONSTRUCTION.

PROVIDE ADEQUATE NUMBER OF TYPE III BARRICADES AND CHANNELING DEVICES AT ROAD CLOSURE LOCATIONS TO COMPLETELY CLOSE THE ROADWAY.

CONTRACTOR SHALL NOTIFY LOCAL EMERGENCY AUTHORITIES (E.G. POLICE, FIRE, MEDICAL), AFFECTED POST OFFICE(S), BUSINESSES, SCHOOL DISTRICT(S).

CONTRACTOR IS TO NOTIFY THE ASSISTANT CONSTRUCTION ENGINEER HE SHALL NOTIFY THE APPAS COORDINATOR AT LEAST FOURTEEN DAYS, PRIOR TO ANY SIGNIFICANT TRAFFIC IMPACTS (E.G. LATERAL WIDTH RESTRICTIONS LESS THAN 12 FEET).

TWO WEEKS PRIOR TO CLOSING THE CONTRACTOR MUST INSTALL THE THIS BRIDGE TO BE CLOSED FOR CONSTRUCTION SIGN W23-101 AT THE POINT OF CLOSURE.

TWO WEEKS PRIOR TO STARTING WORK, THE DETOUR (M4-9) SERIES SIGNS ARE TO BE INSTALLED.

THE M4-9S SERIES DETOUR SIGNS SHOULD NOT BE SPACED FURTHER THAN ONE (1) MILE APART AND PLACED AT EVERY HIGH VOLUME STATE SIDE ROAD.

THE M4-9SL OR M4-9SR ADVANCE DETOUR TURN SIGN THIS SIGN SHOULD BE PLACED 250 FEET (MIN) TO 750 FEET (MAX) IN ADVANCE OF THE TURN, BUT NOT IN ADVANCE OF ANOTHER SIDE ROAD ON THE SAME SIDE.

CONTROL TRAFFIC IN WORK AREAS IN ACCORDANCE WITH PUB. 213 FOR STATIONARY SHORT TERM OPERATION IF NOT ADDRESSED IN THE TRAFFIC CONTROL PLAN (TCP).

FLAG PERSONS ARE TO BE IN RADIO COMMUNICATIONS AT ALL TIMES DURING WORKING HOURS.

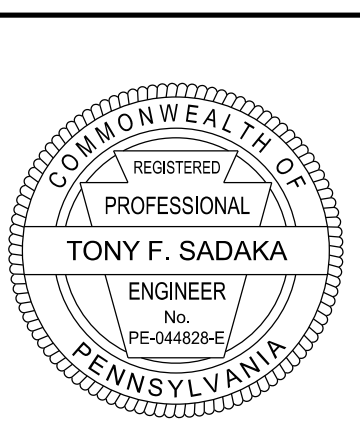
FOR SHORT TERM OPERATIONS - AND FOR INGRESS, EGRESS OF CONSTRUCTION DELIVERIES AND EMPLOYEES; USE SHORT TERM FLAGGING OPERATIONS AND DURING HOURS OF DARKNESS, ALL SIGNS SHALL BE REFLECTORIZED OR ILLUMINATED, AND EACH ADVANCE WARNING SIGN SHALL HAVE A TYPE B LIGHT MOUNTED ON TOP.

ALL SHORT TERM OPERATION LEAD IN SIGNS SHOULD BE MOUNTED ON PORTABLE SIGN STANDS ONLY AS STATED IN BULLETIN 15.

ALL CHANGES TO THIS TRAFFIC CONTROL PLAN MUST BE APPROVED, SIGNED, AND DATED BY THE TRAFFIC UNIT.

CONSTRUCTION SEQUENCE

1. CONTROL TRAFFIC BY IMPLEMENTING THE DETOUR ROUTE AS SHOWN.
2. PLACE TEMPORARY FENCE AND TEMPORARY PROTECTION FENCE.
3. REMOVE EXISTING STRUCTURE.
4. CONSTRUCT THE NEW STRUCTURE.
5. CONSTRUCT ROADWAY APPROACHES TO NEW STRUCTURE.
6. UPON COMPLETION OF THE STRUCTURE REPLACEMENT AND APPROACHES, REMOVE ALL TRAFFIC CONTROL SIGNS, DEVICES AND FENCES.



TRAFFIC CONTROL PLAN

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STANDARD EROSION AND SEDIMENTATION CONTROL PLAN NOTES

- ALL EARTH DISTURBANCES, INCLUDING CLEARING AND GRUBBING AS WELL AS CUTS AND FILLS SHALL BE DONE IN ACCORDANCE WITH THE APPROVED E&S PLAN. A COPY OF THE APPROVED DRAWINGS (STAMPED, SIGNED AND DATED BY THE REVIEWING AGENCY) MUST BE AVAILABLE AT THE PROJECT SITE AT ALL TIMES. THE REVIEWING AGENCY SHALL BE NOTIFIED OF ANY CHANGES TO THE APPROVED PLAN PRIOR TO IMPLEMENTATION OF THOSE CHANGES. THE REVIEWING AGENCY MAY REQUIRE A WRITTEN SUBMITTAL OF THOSE CHANGES FOR REVIEW AND APPROVAL AT ITS DISCRETION.
- AT LEAST 7 DAYS PRIOR TO STARTING ANY EARTH DISTURBANCE ACTIVITIES, INCLUDING CLEARING AND GRUBBING, THE OWNER AND/OR OPERATOR SHALL INVITE ALL CONTRACTORS, THE LANDOWNER, APPROPRIATE MUNICIPAL OFFICIALS, THE E&S PLAN PREPARER, THE PCSM PLAN PREPARER, THE LICENSED PROFESSIONAL RESPONSIBLE FOR OVERSIGHT OF CRITICAL STAGES OF IMPLEMENTATION OF THE PCSM PLAN, AND A REPRESENTATIVE FROM THE GREENE COUNTY CONSERVATION DISTRICT TO AN ON-SITE PRECONSTRUCTION MEETING.
- AT LEAST 3 DAYS PRIOR TO STARTING ANY EARTH DISTURBANCE ACTIVITIES, OR EXPANDING INTO AN AREA PREVIOUSLY UNMARKED, THE PENNSYLVANIA ONE CALL SYSTEM INC. SHALL BE NOTIFIED AT 1-800-242-1776 FOR THE LOCATION OF EXISTING UNDERGROUND UTILITIES.
- ALL EARTH DISTURBANCE ACTIVITIES SHALL PROCEED IN ACCORDANCE WITH THE SEQUENCE PROVIDED ON THE PLAN DRAWINGS. DEVIATION FROM THAT SEQUENCE MUST BE APPROVED IN WRITING FROM THE GREENE COUNTY CONSERVATION DISTRICT OR BY THE DEPARTMENT PRIOR TO IMPLEMENTATION.
- AREAS TO BE FILLED ARE TO BE CLEARED, GRUBBED, AND STRIPPED OF TOPSOIL TO REMOVE TREES, VEGETATION, ROOTS AND OTHER OBJECTIONABLE MATERIAL.
- CLEARING, GRUBBING, AND TOPSOIL STRIPPING SHALL BE LIMITED TO THOSE AREAS DESCRIBED IN EACH STAGE OF THE CONSTRUCTION SEQUENCE. GENERAL SITE CLEARING, GRUBBING AND TOPSOIL STRIPPING MAY NOT COMMENCE IN ANY STAGE OR PHASE OF THE PROJECT UNTIL THE E&S BMPS SPECIFIED BY THE BMP SEQUENCE FOR THAT STAGE OR PHASE HAVE BEEN INSTALLED AND ARE FUNCTIONING AS DESCRIBED IN THIS E&S PLAN.
- AT NO TIME SHALL CONSTRUCTION VEHICLES BE ALLOWED TO ENTER AREAS OUTSIDE THE LIMIT OF DISTURBANCE BOUNDARIES SHOWN ON THE PLAN MAPS. THESE AREAS MUST BE CLEARLY MARKED AND FENCED OFF BEFORE CLEARING AND GRUBBING OPERATIONS BEGIN.
- TOPSOIL REQUIRED FOR THE ESTABLISHMENT OF VEGETATION SHALL BE STOCKPILED AT THE LOCATION(S) SHOWN ON THE PLAN MAPS IN THE AMOUNT NECESSARY TO COMPLETE THE FINISH GRADING OF ALL EXPOSED AREAS THAT ARE TO BE STABILIZED BY VEGETATION. EACH STOCKPILE SHALL BE PROTECTED IN THE MANNER SHOWN ON THE PLAN DRAWINGS. STOCKPILE HEIGHTS SHALL NOT EXCEED 35 FEET. STOCKPILE SLOPES SHALL BE 2H:1V OR FLATTER.
- IMMEDIATELY UPON DISCOVERING UNFORESEEN CIRCUMSTANCES POSING THE POTENTIAL FOR ACCELERATED EROSION AND/OR SEDIMENT POLLUTION, THE OPERATOR SHALL IMPLEMENT APPROPRIATE BEST MANAGEMENT PRACTICES TO MINIMIZE THE POTENTIAL FOR EROSION AND SEDIMENT POLLUTION AND NOTIFY THE GREENE COUNTY CONSERVATION DISTRICT AND/OR THE REGIONAL OFFICE OF THE DEPARTMENT.
- ALL BUILDING MATERIALS AND WASTES SHALL BE REMOVED FROM THE SITE AND RECYCLED OR DISPOSED OF IN ACCORDANCE WITH THE DEPARTMENT'S SOLID WASTE MANAGEMENT REGULATIONS AT 25 PA. CODE 260.1 ET SEQ., 271.1, AND 287.1 ET. SEQ. NO BUILDING MATERIALS OR WASTES OR UNUSED BUILDING MATERIALS SHALL BE BURNED, BURIED, DUMPED, OR DISCHARGED AT THE SITE.
- ALL OFF-SITE WASTE AND BORROW AREAS MUST HAVE AN E&S PLAN APPROVED BY THE GREENE COUNTY CONSERVATION DISTRICT OR THE DEPARTMENT FULLY IMPLEMENTED PRIOR TO BEING ACTIVATED.
- THE CONTRACTOR IS RESPONSIBLE FOR ENSURING THAT ANY MATERIAL BROUGHT ON SITE IS CLEAN FILL. FORM FP-001 MUST BE RETAINED BY THE PROPERTY OWNER FOR ANY FILL MATERIAL AFFECTED BY A SPILL OR RELEASE OF A REGULATED SUBSTANCE BUT QUALIFYING AS CLEAN FILL DUE TO ANALYTICAL TESTING.
- ALL PUMPING OF WATER FROM ANY WORK AREA SHALL BE DONE ACCORDING TO THE PROCEDURE DESCRIBED IN THIS PLAN, OVER UNDISTURBED VEGETATED AREAS.
- VEHICLES AND EQUIPMENT MAY NEITHER ENTER DIRECTLY NOR EXIT DIRECTLY FROM ANY AREA OTHER THAN THOSE DESIGNATED ON THE PLAN DRAWINGS.
- UNTIL THE SITE IS STABILIZED, ALL EROSION AND SEDIMENT BMPS SHALL BE MAINTAINED PROPERLY. MAINTENANCE SHALL INCLUDE INSPECTIONS OF ALL EROSION AND SEDIMENT BMPS AFTER EACH RUNOFF EVENT AND ON A WEEKLY BASIS. ALL PREVENTATIVE AND REMEDIAL MAINTENANCE WORK, INCLUDING CLEAN OUT, REPAIR, REPLACEMENT, REGRADING, RESEEDING, REMULCHING AND RENETTING MUST BE PERFORMED IMMEDIATELY. IF THE E&S BMPS FAIL TO PERFORM AS EXPECTED, REPLACEMENT BMPS, OR MODIFICATIONS OF THOSE INSTALLED WILL BE REQUIRED.
- A LOG SHOWING DATES THAT E&S BMPS WERE INSPECTED AS WELL AS ANY DEFICIENCIES FOUND AND THE DATE THEY WERE CORRECTED SHALL BE MAINTAINED ON THE SITE AND BE MADE AVAILABLE TO REGULATORY AGENCY OFFICIALS AT THE TIME OF INSPECTION.
- SEDIMENT TRACKED ONTO ANY PUBLIC ROADWAY OR SIDEWALK SHALL BE RETURNED TO THE CONSTRUCTION SITE BY THE END OF EACH WORK DAY AND DISPOSED IN THE MANNER DESCRIBED IN THIS PLAN. IN NO CASE SHALL THE SEDIMENT BE WASHED, SHOVELED, OR SWEEPED INTO ANY ROADSIDE DITCH, STORM SEWER, OR SURFACE WATER.
- ALL SEDIMENT REMOVED FROM BMPS SHALL BE DISPOSED OF IN THE MANNER DESCRIBED ON THE PLAN DRAWINGS.
- AREAS WHICH ARE TO BE TOPSOILED SHALL BE SCARIFIED TO A MINIMUM DEPTH OF 3 TO 5 INCHES, 6 TO 12 INCHES ON COMPACTED SOILS, PRIOR TO PLACEMENT OF TOPSOIL. AREAS TO BE VEGETATED SHALL HAVE A MINIMUM 4 INCHES OF TOPSOIL IN PLACE PRIOR TO SEEDING AND MULCHING. FILL OUTSLOPES SHALL HAVE A MINIMUM OF 2 INCHES OF TOPSOIL.

- ALL FILLS SHALL BE COMPACTED AS REQUIRED TO REDUCE EROSION, SLIPPAGE, SETTLEMENT, SUBSIDENCE OR OTHER RELATED PROBLEMS. FILL INTENDED TO SUPPORT BUILDINGS, STRUCTURES AND CONDUITS, ETC. SHALL BE COMPACTED IN ACCORDANCE WITH LOCAL REQUIREMENTS OR CODES.
- ALL EARTHEN FILLS SHALL BE PLACED IN COMPACTED LAYERS NOT TO EXCEED 9 INCHES IN THICKNESS.
- FILL MATERIALS SHALL BE FREE OF FROZEN PARTICLES, BRUSH, ROOTS, SOD, OR OTHER FOREIGN OR OBJECTIONABLE MATERIALS THAT WOULD INTERFERE WITH OR PREVENT CONSTRUCTION OF SATISFACTORY FILLS.
- FROZEN MATERIALS OR SOFT, MUCKY, OR HIGHLY COMPRESSIBLE MATERIALS SHALL NOT BE INCORPORATED INTO FILLS.
- FILL SHALL NOT BE PLACED ON SATURATED OR FROZEN SURFACES.
- SEEPS OR SPRINGS ENCOUNTERED DURING CONSTRUCTION SHALL BE HANDLED IN ACCORDANCE WITH THE STANDARD AND SPECIFICATION FOR SUBSURFACE DRAIN OR OTHER APPROVED METHOD.
- ALL GRADED AREAS SHALL BE PERMANENTLY STABILIZED IMMEDIATELY UPON REACHING FINISHED GRADE. CUT SLOPES IN COMPETENT BEDROCK AND ROCK FILLS NEED NOT BE VEGETATED. SEEDED AREAS WITHIN 50 FEET OF A SURFACE WATER, OR AS OTHERWISE SHOWN ON THE PLAN DRAWINGS, SHALL BE BLANKETED ACCORDING TO THE STANDARDS OF THIS PLAN.
- IMMEDIATELY AFTER EARTH DISTURBANCE ACTIVITIES CEASE IN ANY AREA OR SUBAREA OF THE PROJECT, THE OPERATOR SHALL STABILIZE ALL DISTURBED AREAS. DURING NON-GERMINATING MONTHS, MULCH OR PROTECTIVE BLANKETING SHALL BE APPLIED AS DESCRIBED IN THE PLAN. AREAS NOT AT FINISHED GRADE, WHICH WILL BE REACTIVATED WITHIN 1 YEAR, MAY BE STABILIZED IN ACCORDANCE WITH THE TEMPORARY STABILIZATION SPECIFICATIONS. THOSE AREAS WHICH WILL NOT BE REACTIVATED WITHIN 1 YEAR SHALL BE STABILIZED IN ACCORDANCE WITH THE PERMANENT STABILIZATION SPECIFICATIONS.
- PERMANENT STABILIZATION IS DEFINED AS A MINIMUM UNIFORM, PERENNIAL 70% VEGETATIVE COVER OR OTHER PERMANENT NON-VEGETATIVE COVER WITH A DENSITY SUFFICIENT TO RESIST ACCELERATED EROSION. CUT AND FILL SLOPES SHALL BE CAPABLE OF RESISTING FAILURE DUE TO SLUMPING, SLIDING, OR OTHER MOVEMENTS.
- E&S BMPS SHALL REMAIN FUNCTIONAL AS SUCH UNTIL ALL AREAS TRIBUTARY TO THEM ARE PERMANENTLY STABILIZED OR UNTIL THEY ARE REPLACED BY ANOTHER BMP APPROVED BY THE GREENE COUNTY CONSERVATION DISTRICT OR THE DEPARTMENT.
- UPON COMPLETION OF ALL EARTH DISTURBANCE ACTIVITIES AND PERMANENT STABILIZATION OF ALL DISTURBED AREAS, THE OWNER AND/OR OPERATOR SHALL CONTACT THE GREENE COUNTY CONSERVATION DISTRICT FOR AN INSPECTION PRIOR TO REMOVAL/CONVERSION OF THE E&S BMPS.
- AFTER FINAL SITE STABILIZATION HAS BEEN ACHIEVED, TEMPORARY EROSION AND SEDIMENT BMPS MUST BE REMOVED OR CONVERTED TO PERMANENT POST CONSTRUCTION STORMWATER MANAGEMENT BMPS. AREAS DISTURBED DURING REMOVAL OR CONVERSION OF THE BMPS SHALL BE STABILIZED IMMEDIATELY. IN ORDER TO ENSURE RAPID REVEGETATION OF DISTURBED AREAS, SUCH REMOVAL/CONVERSIONS ARE TO BE DONE ONLY DURING THE GERMINATING SEASON.
- UPON COMPLETION OF ALL EARTH DISTURBANCE ACTIVITIES AND PERMANENT STABILIZATION OF ALL DISTURBED AREAS, THE OWNER AND/OR OPERATOR SHALL CONTACT THE GREENE COUNTY CONSERVATION DISTRICT TO SCHEDULE A FINAL INSPECTION.
- FAILURE TO CORRECTLY INSTALL E&S BMPS, FAILURE TO PREVENT SEDIMENT-LADEN RUNOFF FROM LEAVING THE CONSTRUCTION SITE, OR FAILURE TO TAKE IMMEDIATE CORRECTIVE ACTION TO RESOLVE FAILURE OF E&S BMPS MAY RESULT IN ADMINISTRATIVE, CIVIL, AND/OR CRIMINAL PENALTIES BEING INSTITUTED BY THE DEPARTMENT AS DEFINED IN SECTION 602 OF THE PENNSYLVANIA CLEAN STREAMS LAW. 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 PENALTIES FOR EACH VIOLATION.
- CONCRETE WASH WATER SHALL BE HANDLED IN THE MANNER DESCRIBED ON THE PLAN DRAWINGS. IN NO CASE SHALL IT BE ALLOWED TO ENTER ANY SURFACE WATERS OR GROUNDWATER SYSTEMS.
- EROSION CONTROL BLANKETING SHALL BE INSTALLED ON ALL SLOPES 3H:1V OR STEEPER WITHIN 50 FEET OF A SURFACE WATER AND ON ALL OTHER DISTURBED AREAS SPECIFIED ON THE PLAN MAPS AND/OR DETAIL SHEETS.

CLEAN FILL NOTES

IF THE SITE WILL NEED TO IMPORT OR EXPORT MATERIAL FROM THE SITE, THE RESPONSIBILITY FOR PERFORMING ENVIRONMENTAL DUE DILIGENCE AND DETERMINATION OF CLEAN FILL WILL REST WITH THE CONTRACTOR.

CLEAN FILL

CLEAN FILL IS DEFINED AS: UNCONTAMINATED, NON-WATER SOLUBLE, NON-DECOMPOSABLE, INERT, SOLID MATERIAL. THE TERM INCLUDES SOIL, ROCK, STONE, DREGGED 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 PROCESSED FOR REUSE).

DISTRICT	COUNTY	ROUTE	SECTION	SHEET
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CLEAN FILL AFFECTED BY A SPILL OR RELEASE OF A REGULATED SUBSTANCE

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.

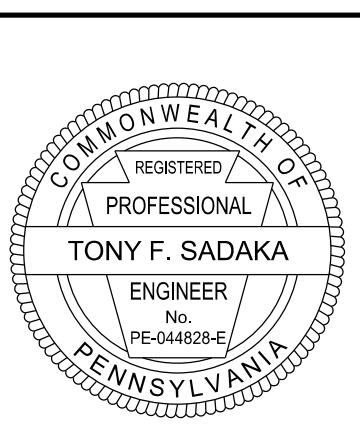
ENVIRONMENTAL DUE DILIGENCE

THE CONTRACTOR MUST PERFORM ENVIRONMENTAL DUE DILIGENCE TO DETERMINE IF THE FILL MATERIALS ASSOCIATED WITH THE PROJECT QUALIFY AS CLEAN FILL. ENVIRONMENTAL DUE DILIGENCE IS DEFINED AS: INVESTIGATIVE TECHNIQUES, INCLUDING, BUT NOT LIMITED TO, VISUAL PROPERTY INSPECTIONS, ELECTRONIC 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 DILIGENCE 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". FILL MATERIAL THAT DOES NOT QUALIFY AS CLEAN FILL IS REGULATED FILL. REGULATED FILL IS WASTE AND MUST BE MANAGED IN ACCORDANCE WITH THE DEPARTMENT'S MUNICIPAL OR RESIDUAL WASTE REGULATIONS BASED ON 25 PA. CODE CHAPTERS 287 RESIDUAL WASTE MANAGEMENT OR 271 MUNICIPAL WASTE MANAGEMENT, WHICHEVER IS APPLICABLE. THESE REGULATIONS ARE AVAILABLE ON-LINE AT WWW.PACODE.COM.

MAINTENANCE SCHEDULE

BMP	INSPECTION FREQUENCY	DEADLINE FOR REPAIRS	PERSON RESPONSIBLE FOR REPAIRS & MAINTENANCE
ROCK CONSTRUCTION ENTRANCES W/ WASH RACK	DAILY	IMMEDIATELY AFTER INSPECTION	CONTRACTOR
COMPOST FILTER SOCK	WEEKLY OR AFTER RUNOFF EVENT	IMMEDIATELY AFTER INSPECTION	CONTRACTOR
TEMPORARY STREAM DIVERSION	DAILY	IMMEDIATELY AFTER INSPECTION	CONTRACTOR
VEGETATED AREAS	WEEKLY OR AFTER RUNOFF EVENT	IMMEDIATELY AFTER INSPECTION	CONTRACTOR
PUMPED WATER FILTER BAG	DAILY	IMMEDIATELY AFTER INSPECTION	CONTRACTOR
COMPOST SOCK WASHOUT	BEFORE EACH USE	IMMEDIATELY AFTER INSPECTION	CONTRACTOR
ROLLED EROSION CONTROL PRODUCTS	WEEKLY OR AFTER RUNOFF EVENT	IMMEDIATELY AFTER INSPECTION	CONTRACTOR
FENCING	WEEKLY OR AFTER RUNOFF EVENT	IMMEDIATELY AFTER INSPECTION	CONTRACTOR

EROSION AND SEDIMENT POLLUTION CONTROL PLAN



DISTRICT	COUNTY	ROUTE	SECTION	SHEET
12-0	GREENE	T438	G103	2 OF 6
MORRIS TOWNSHIP				
REVISION NUMBER	REVISIONS			DATE BY

A MAINTENANCE PROGRAM WHICH PROVIDES FOR INSPECTION OF BMPs ON A WEEKLY BASIS AND AFTER EACH MEASURABLE RAINFALL EVENT, INCLUDING THE REPAIR OF THE BMPs TO ENSURE EFFECTIVE AND EFFICIENT OPERATION.

A. MAINTENANCE PROGRAM

GENERAL

WATER FROM ALL DISTURBED AREAS SHALL BE DIRECTED AND FILTERED THROUGH THE PROPOSED SILT FENCE, COMPOST FILTER SOCK, ROCK FILTERS, OR OTHER SEDIMENT CONTROL DEVICES PRIOR TO ITS DISCHARGE OFF-SITE. ALL TEMPORARY SEDIMENT CONTROL MEASURES SHALL BE INSPECTED AND MAINTAINED BY THE CONTRACTOR ON A WEEKLY OR DAILY BASIS AND AFTER EACH RUNOFF EVENT AS SPECIFIED IN THE MAINTENANCE PROGRAM SCHEDULE. MAINTENANCE REPAIRS TO SEDIMENT CONTROL DEVICES SHALL BE COMPLETED IMMEDIATELY OR WITHIN ONE (1) WORKING DAY. ALL SEDIMENT REMOVED FROM THE EROSION CONTROL MEASURES SHALL BE DISPOSED OF EITHER AT THE TOPSOIL STOCKPILE TO BE LATER MIXED WITH THE TOPSOIL OR OFFSITE AT AN APPROVED EROSION AND SEDIMENT POLLUTION CONTROL SITE.

ROCK CONSTRUCTION ENTRANCE W/ WASH RACK AND TEMPORARY ACCESS ROADS

THE CONTRACTOR SHALL INSPECT THE ROCK CONSTRUCTION ENTRANCES AND TEMPORARY ACCESS ROADS AT THE END OF EACH WORK DAY. THE CONTRACTOR SHALL MAINTAIN THE ROCK CONSTRUCTION ENTRANCE TO MINIMIZE TRACKING OF SEDIMENTS ONTO ROADWAYS. THE CONTRACTOR SHALL STOCKPILE ON-SITE ADDITIONAL STONE FOR FUTURE USE IN REPAIRING AND MAINTAINING THE ROCK CONSTRUCTION ENTRANCES AND TEMPORARY ACCESS ROADS. AT THE END OF EACH WORKING DAY, ALL SEDIMENT DEPOSITED ONTO PUBLIC ROADWAYS WILL BE REMOVED AND RETURNED TO THE CONSTRUCTION SITE. WASHING OF THE ROADWAY WITH WATER IS NOT PERMITTED.

SILT FENCE AND COMPOST FILTER SOCK

THE CONTRACTOR SHALL INSPECT ALL SILT FENCE AND COMPOST FILTER SOCK ON A WEEKLY BASIS AND AFTER EACH RUNOFF EVENT. THE CONTRACTOR SHALL REMOVE ALL SEDIMENT FROM SILT FENCE OR COMPOST FILTER SOCK WHERE ACCUMULATIONS REACH ONE-HALF (1/2) OF THE ABOVE GROUND HEIGHT OF THE FENCE/SOCK OR DEEPER. CLEAN FENCE BY TAPPING THE DRY FABRIC FROM THE DOWNSTREAM SIDE. AFTER SEDIMENT IS REMOVED, REPAIR AND/OR REPLACE THE SILT FENCE OR COMPOST FILTER SOCK AS NEEDED. ANY SECTION OF SILT FENCE OR COMPOST FILTER SOCK THAT HAS BEEN UNDERCUT OR OVERTOPPED MUST BE REPLACED IMMEDIATELY OR WITHIN ONE (1) WORKING DAY WITH A ROCK FILTER OUTLET AS DETAILED IN PENNDOT RC-70M. ADHERE TO ANY MANUFACTURER'S RECOMMENDATIONS FOR REPLACING THE SILT BARRIER FENCE DUE TO WEATHERING.

NOTE: SILT FENCE AND COMPOST FILTER SOCK ARE SHOWN ON THE PLAN BY SPECIFIC INSTALLATION LOCATIONS. THE CONTRACTOR SHALL RELOCATE THE SILT FENCE OR COMPOST FILTER SOCK WHEREVER THE LOCATION OF THE SILT FENCE OR COMPOST FILTER SOCK IS NEEDED DUE TO EXCAVATION, UTILITY INSTALLATION, ETC. THROUGHOUT THE CONSTRUCTION, THE CONTRACTOR(S) SHALL RELOCATE THE SILT FENCE OR COMPOST FILTER SOCK TO APPROPRIATE LOCATIONS TO ENSURE THAT SEDIMENT LADEN SURFACE RUNOFF WILL BE CAPTURED AT ALL TIMES.

TEMPORARY COFFERDAMS AND STREAM DIVERSION

THE CONTRACTOR SHALL INSPECT ALL TEMPORARY COFFERDAMS AND STREAM DIVERSION ON A DAILY BASIS AND AFTER EACH RUNOFF EVENT. THE CONTRACTOR SHALL MAINTAIN THE TEMPORARY COFFERDAMS AND DIVERSION IN GOOD CONDITION AND SHALL REPAIR OR REPLACE FAILED OR DETERIORATED INSTALLATIONS TO "LIKE-NEW" CONDITION. THE CONTRACTOR SHALL STOCKPILE ON-SITE ADDITIONAL STONE FOR FUTURE USE IN REPAIRING AND MAINTAINING THE EROSION AND INLETA AND OUTLET. REMOVE ALL ACCUMULATED DEBRIS FROM COFFERDAMS AND DIVERSION. REPAIR ANY WASHOUTS IMMEDIATELY WITH THE APPROPRIATE MATERIAL.

VEGETATED AREAS

VEGETATED AND MULCHED AREAS WILL BE INSPECTED WEEKLY AND AFTER EACH RUNOFF EVENT. ANY AREA NOT USED (NOR SCHEDULED FOR USE) WITHIN 4 DAYS OF DISTURBANCE SHALL BE MULCHED OR SEEDED WITH TEMPORARY GRASS MIXTURE PER PENNDOT 408 REQUIREMENTS. ALL WORK AREAS COMPLETED SHALL HAVE PERMANENT VEGETATION ESTABLISHED AS SOON AS POSSIBLE. WHERE SEDIMENT HAS ACCUMULATED, IT SHALL BE REMOVED PRIOR TO PLACEMENT OF VEGETATION. IF THE SEEDED OR MULCHED AREAS HAVE BECOME DAMAGED BY EROSION OR ADDITIONAL CONSTRUCTION OPERATIONS, THE CONTRACTOR SHALL PROMPTLY REPAIR THE AFFECTED AREA BY REGARDING, LIMING, FERTILIZING, SEEDING, AND MULCHING AS ORIGINALLY SPECIFIED. VEGETATED AREAS THAT HAVE NOT ESTABLISHED A UNIFORM 70% PERENNIAL VEGETATIVE COVER AT THE END OF ONE GROWING SEASON SHALL BE RESEDED, LIMED, FERTILIZED, AND MULCHED AS ORIGINALLY SPECIFIED.

PUMPED WATER FILTER BAGS

THE CONTRACTOR SHALL INSPECT ALL PUMPED WATER FILTER BAGS ON A DAILY BASIS AND AFTER EACH RUNOFF EVENT. THE CONTRACTOR SHALL CLEAN, REPAIR, OR REPLACE THE BAG WHEN IT IS FOUND TO BE IN UNSATISFACTORY CONDITION WITHIN 24 HOURS OF THE INSPECTION. FILTER BAGS SHALL BE CLEANED AND/OR REPLACED WHEN THE BAGS FLOW RATE HAS BEEN REDUCED TO 50% OF ITS INITIAL DISCHARGE RATE. THE SILT MAY BE COLLECTED AND DEPOSITED ON THE TOPSOIL STOCKPILE AND STABILIZED IMMEDIATELY. DAMAGED FILTER BAGS SHALL BE REPLACED.

COMPOST SOCK WASHOUT

THE CONTRACTOR SHALL INSPECT THE COMPOST SOCK WASHOUTS PRIOR TO EACH USE. DAMAGED OR LEAKING WASHOUTS SHOULD BE DEACTIVATED AND REPAIRED OR REPLACED IMMEDIATELY. ACCUMULATED MATERIALS SHOULD BE REMOVED WHEN THEY REACH 75% CAPACITY. PLASTIC LINERS SHALL BE REPLACED WITH EACH CLEANING OF THE WASHOUT FACILITY. SUITABLE CONCRETE MATERIAL MAY BE USED AS CLEAN BACKFILL, ALL OTHER WASTE SHALL BE CONSTRUCTION WASTE AND DISPOSED OF IN THE MANNER DESCRIBED IN THESE PLANS.

ROLLED EROSION CONTROL PRODUCTS

THE EROSION CONTROL MULCH BLANKET AND HIGH VELOCITY EROSION CONTROL MULCH BLANKET WILL BE INSPECTED WEEKLY AND AFTER EACH RUNOFF EVENT. THE CONTRACTOR SHALL REPAIR, OR REPLACE ALL MULCH BLANKET FOUND TO BE IN UNSATISFACTORY CONDITION WITHIN 24 HOURS OF THE INSPECTION.

DUST CONTROL

THE CONTRACTOR SHALL IMPLEMENT A PLAN FOR DUST CONTROL ON THE SITE AREA. WINDBREAKS, WATERING OF HAUL ROADS, STREETSWEEPING PAVED AREAS, MULCHING OF DISTURBED AREAS, AND ENVIRONMENTALLY SAFE CHEMICAL TREATMENTS ARE SOME TECHNIQUES THE CONTRACTOR MAY IMPLEMENT. AS NEEDED, ALL AREAS REQUIRING DUST CONTROL SHALL BE TREATED BY THE CONTRACTOR TO ENSURE THAT DUST DOES NOT ADVERSELY IMPACT THE SITE AND SURROUNDING AREA.

LITTER / CONSTRUCTION DEBRIS

THE CONTRACTOR SHALL INSPECT THE SITE AND AREAS SURROUNDING THE SITE FOR LITTER AND CONSTRUCTION DEBRIS ON A WEEKLY BASIS. ALL LITTER AND CONSTRUCTION DEBRIS SHALL BE COLLECTED BY THE CONTRACTOR AND PLACED INTO PROPER WASTE RECEPTACLES (MUNICIPAL WASTE, RECYCLABLES, OTHERS AS NEEDED) SUCH THAT THE WASTE IS DISPOSED OF IN A PROPER, LEGAL MANNER, OFF-SITE AT AN APPROPRIATE WASTE FACILITY.

B. PERMANENT MAINTENANCE OPERATIONS

UPON COMPLETION OF THE PROJECT, THE MAINTENANCE OF ALL PERMANENT EROSION AND SEDIMENTATION CONTROLS WILL BECOME PART OF THE GREENE COUNTY PUBLIC WORKS REGULAR MAINTENANCE PROGRAM. THIS WILL INCLUDE PERIODIC INSPECTIONS OF FACILITIES AND ALL REQUIRED REPAIRS.

C. SPECIFICATIONS

THE PENNSYLVANIA DEPARTMENT OF TRANSPORTATION SPECIFICATIONS PUBLICATION 408/2020, CURRENT EDITION, ARE APPLICABLE TO THIS PROJECT.

D. RECYCLING

ALL BUILDING MATERIALS AND WASTES SHALL BE REMOVED FROM THE SITE AND RECYCLED OR DISPOSED OF IN ACCORDANCE WITH THE DEPARTMENTS SOLID WASTE MANAGEMENT REGULATIONS AT 25 PA CODE 260. 1 ET SEQ 271.1 AND 287.1 ET SEQ. NO BUILDING MATERIALS OR WASTES OR UNUSED BUILDING MATERIALS SHALL BE BURNED, DUMPED, OR DISCHARGED AT THE SITE.

TEMPORARY AND PERMANENT SEEDING SPECIFICATIONS

ITEM# 0804-0032 (TEMPORARY)	SPECIES #:	FORMULA T (OATS-SPRING OR CEREAL RYE-FALL)	
	% PURE LIVE SEED:	97	%
	APPLICATION RATE:	30	LB./ACRE
	FERTILIZER TYPE:	10-20-20	(X-X-X)
	FERTILIZER APPL. RATE:	678	LB./ACRE
	LIMING RATE:	3872	LB./ACRE
	MULCH TYPE:	HAY OR STRAW	
	MULCHING RATE:	3	T/ACRE
ITEM# 0804-0025 (PERMANENT)	SPECIES #:	FORMULA B PERENNIAL RYEGRASS/CREEPING RED FESCUE/KENTUCKY BLUEGRASS	
	% PURE LIVE SEED:	98	%
	APPLICATION RATE:	210	LB./ACRE
	FERTILIZER TYPE:	10-20-20	(X-X-X)
	FERTILIZER APPL. RATE:	678	LB./ACRE
	LIMING RATE:	3872	LB./ACRE
	MULCH TYPE:	HAY OR STRAW	
	MULCHING RATE:	2.9	T/ACRE
	ANCHOR MATERIAL:	WOOD - CELLULOSE	
	ANCHORING METHOD:	MECHANICAL BLOWER	
	RATE OF ANCHOR MATERIAL APPL:	775	LB/ACRE
	SEEDING SEASON DATES:	MARCH 15 TO JUNE 1; AUGUST 1 TO OCTOBER 15	
ITEM# 0804-0027 (PERMANENT STEEP SLOPE) (>3:1)	SPECIES #:	FORMULA L (HARD FESCUE/CREEPING RED FESCUE/ANNUAL RYEGRASS)	
	% PURE LIVE SEED:	97	%
	APPLICATION RATE:	233	LB./ACRE
	FERTILIZER TYPE:	10-20-20	(X-X-X)
	FERTILIZER APPL. RATE:	678	LB./ACRE
	LIMING RATE:	3872	LB./ACRE
	MULCH TYPE:	HAY OR STRAW	
	MULCHING RATE:	2.9	T/ACRE
	ANCHORING MATERIAL:	WOOD-CELLULOSE	
	ANCHORING METHOD:	MECHANICAL BLOWER	
	RATE OF ANCHOR MATERIAL APPL:	775	LB/ACRE
	SEEDING SEASON DATES:	MARCH 15 TO JUNE 1; AUGUST 1 TO OCTOBER 15	

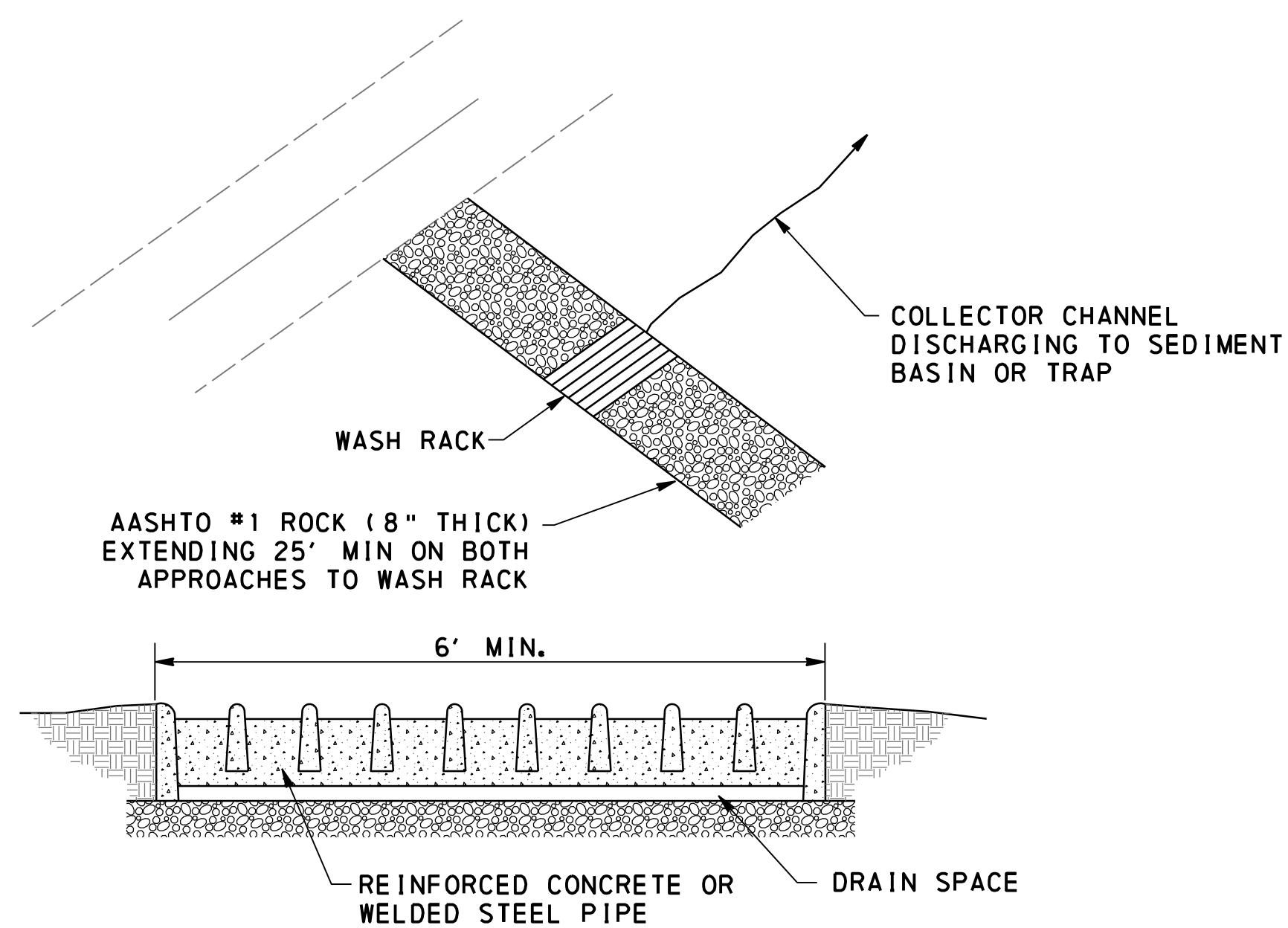
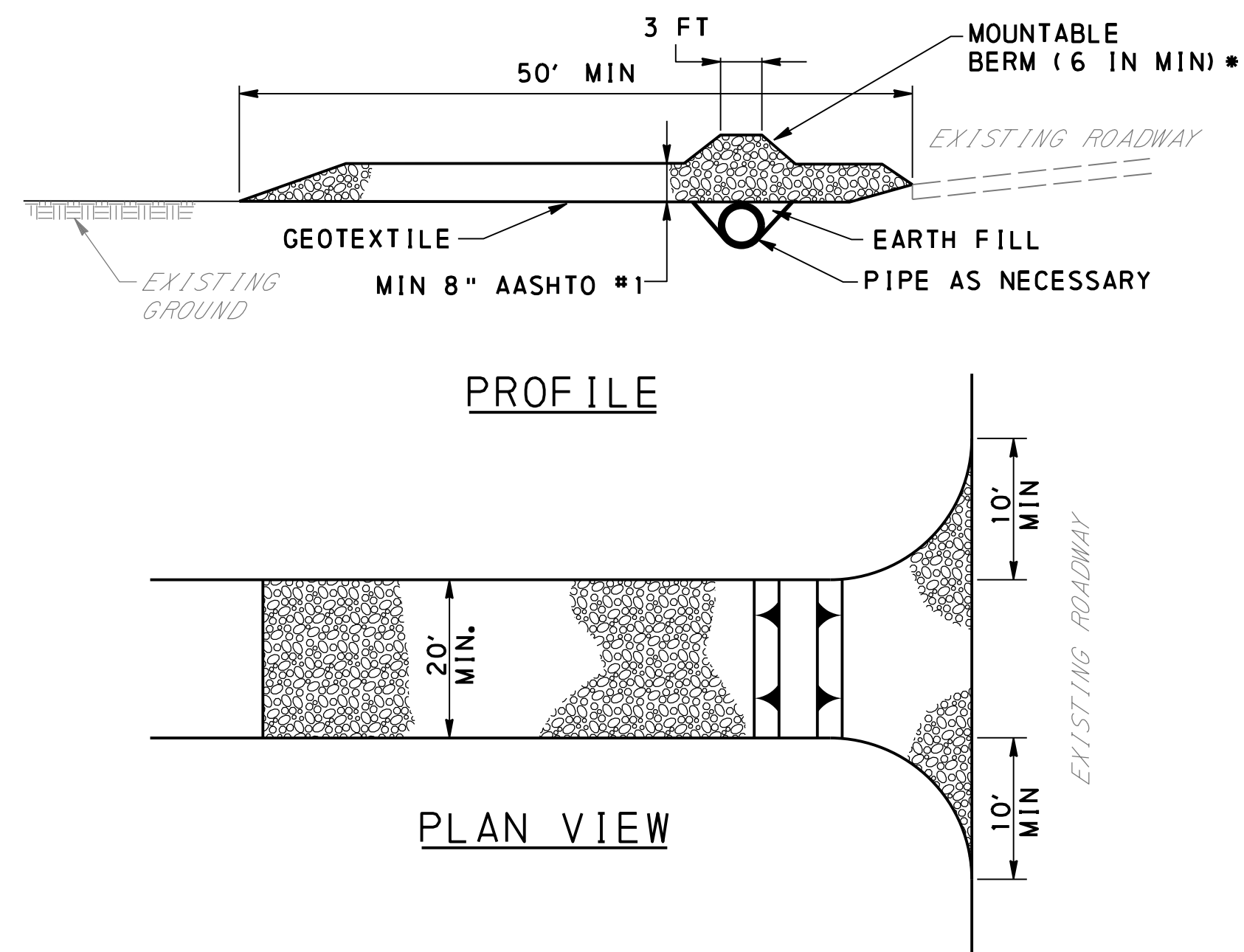
* IF MORE THAN ONE SPECIES IS USED, INDICATE APPLICATION RATE FOR EACH SPECIES.

10:18:06 AM
 2/2/2025 10:18:06 AM - Greene County Bridge - 103%ComatE&SHomeESNOT.rgn

DRAWN BY: SMR CHECKED BY: JLM



EROSION AND SEDIMENT POLLUTION CONTROL PLAN



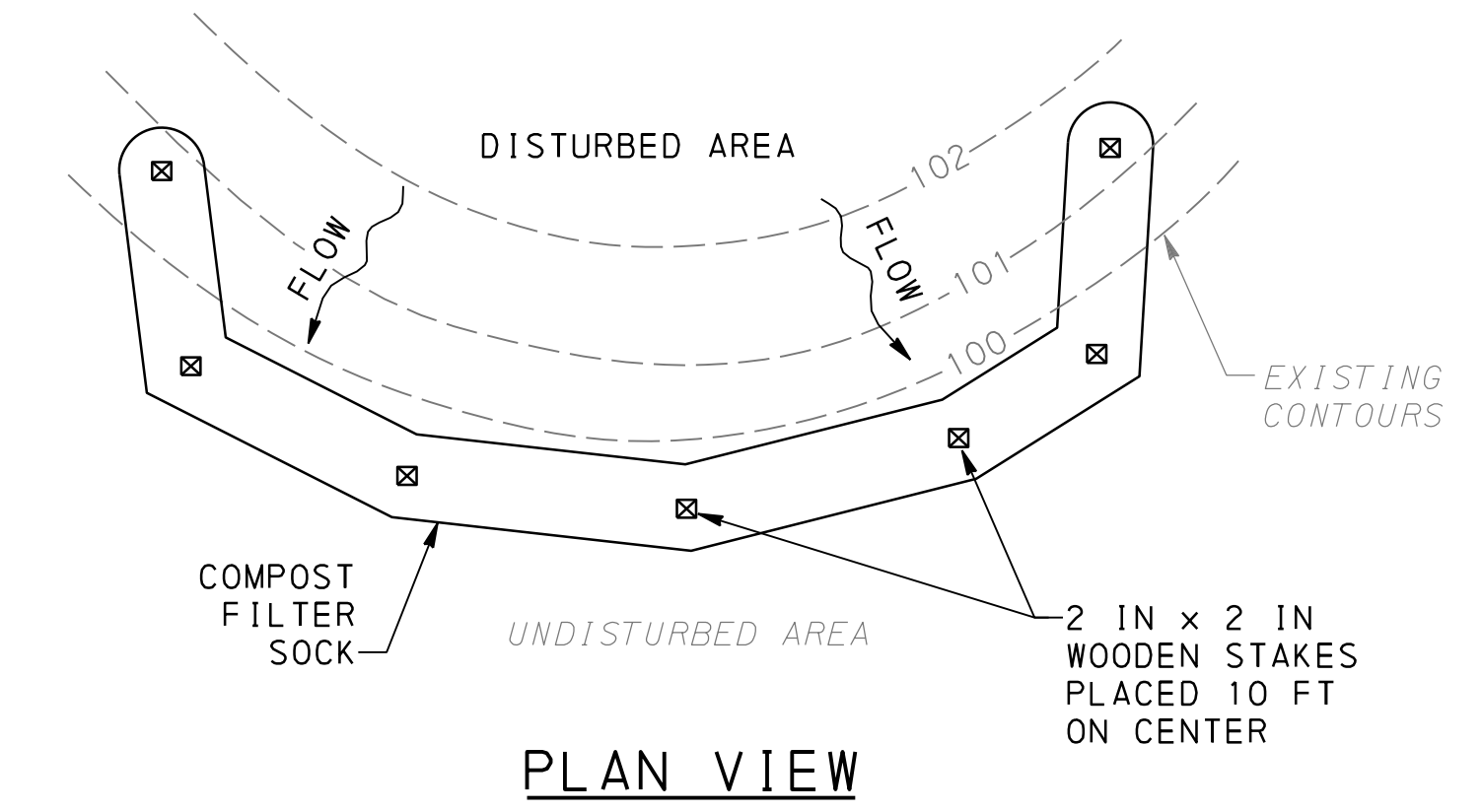
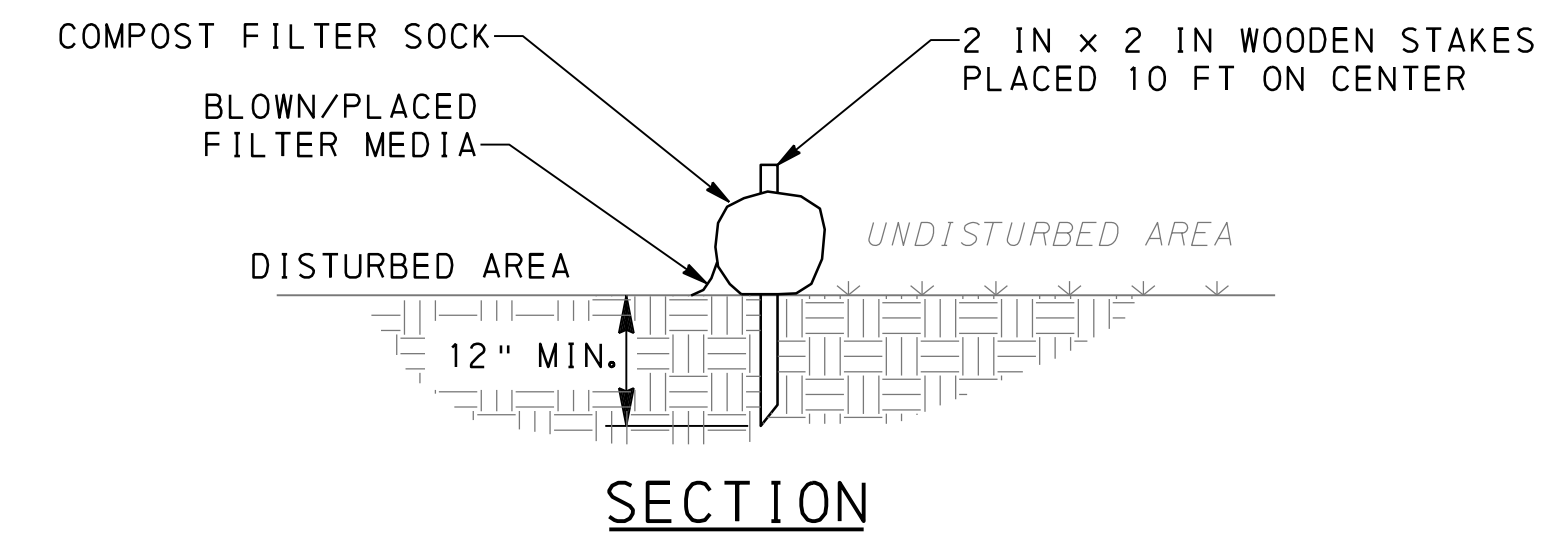
NOTES:

WASH RACK SHALL BE 20 FEET (MIN) WIDE OR TOTAL WIDTH OF ACCESS.

WASH RACK SHALL BE DESIGNED AND CONSTRUCTED TO ACCOMMODATE ANTICIPATED CONSTRUCTION VEHICULAR TRAFFIC.

A WATER SUPPLY SHALL BE MADE AVAILABLE TO WASH THE WHEELS OF ALL VEHICLES EXITING THE SITE.

MAINTENANCE: ROCK CONSTRUCTION ENTRANCE THICKNESS SHALL BE CONSTANTLY MAINTAINED TO THE SPECIFIED DIMENSIONS BY ADDING ROCK. A STOCKPILE OF ROCK MATERIAL SHALL BE MAINTAINED ON SITE FOR THIS PURPOSE. DAMAGE TO THE WASH RACK SHALL BE REPAIRED PRIOR TO FURTHER USE OF THE RACK. ALL SEDIMENT DEPOSITED ON ROADWAYS SHALL BE REMOVED AND RETURNED TO THE CONSTRUCTION SITE IMMEDIATELY. WASHING THE ROADWAY OR SWEEPING THE DEPOSITS INTO ROADWAY DITCHES, SEWERS, CULVERTS, OR OTHER DRAINAGE COURSES IS NOT ACCEPTABLE.



NOTES:

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 THE SLOPE OF ITS TRIBUTARY AREA.

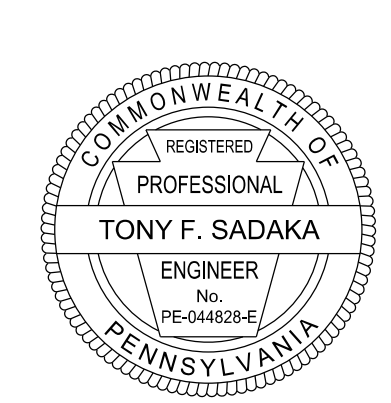
TRAFFIC SHALL NOT BE PERMITTED TO CROSS COMPOST FILTER SOCKS. ACCUMULATED SEDIMENT SHALL BE REMOVED WHEN IT REACHES 1/2 THE ABOVE GROUND HEIGHT OF THE BARRIER AND DISPOSED IN THE MANNER DESCRIBED ELSEWHERE IN THE PLAN.

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 INSPECTION.

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

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

STANDARD CONSTRUCTION DETAIL #4-1
COMPOST FILTER SOCK
 NOT TO SCALE
 ITEM# 0867-0012



STANDARD CONSTRUCTION DETAIL #3-2
ROCK CONSTRUCTION ACCESS WITH WASH RACK
 NOT TO SCALE
 INCIDENTAL TO ITEM# 0849-0020

TABLE 4.1- COMPOST SOCK FABRIC MINIMUM SPECIFICATIONS

MATERIAL TYPE	3 MIL HDPE	5 MIL HDPE	5 MIL HDPE	MULTI-FILAMENT POLYPROPYLENE (MFPP)	MULTI-FILAMENT POLYPROPYLENE (MFPP)
MATERIAL CHARACTERISTICS	PHOTO-DEGRADABLE	PHOTO-DEGRADABLE	BIO-DEGRADABLE	PHOTO-DEGRADABLE	PHOTO-DEGRADABLE
SOCK DIAMETERS	12" 18"	12" 18" 24" 32"	12" 18" 24" 32"	12" 18" 24" 32"	12" 18" 24" 32"
MESH OPENING	3/8"	3/8"	3/8"	3/8"	1/8"
TENSILE STRENGTH		26 PSI	26 PSI	44 PSI	202 PSI
ULTRAVIOLET STABILITY % ORIGINAL STRENGTH (ASTM G-155)	23% AT 1000 HR	23% AT 1000 HR		23% AT 1000 HR	23% AT 1000 HR
MINIMUM FUNCTIONAL LONGEVITY	6 MONTHS	9 MONTHS	6 MONTHS	1 YEAR	2 YEARS

TWO-PLY SYSTEMS

INNER CONTAINMENT NETTING	HDPE BIAXIAL NET
	CONTINUOUSLY WOUND
OUTER FILTRATION MESH	FUSION-WELDED JUNCTURES
	3/4" X 3/4" MAX APERTURE SIZE
	COMPOSITE POLYPROPYLENE FABRIC (WOVEN LAYER AND NON-WOVEN FLEECE MECHANICALLY FUSED VIA NEEDLE PUNCH)
	3/16" MAX APERTURE SIZE

SOCK FABRICS COMPOSED OF BURLAP MAY BE USED ON PROJECTS LASTING 6 MONTHS OR LESS

TABLE 4.2- COMPOST STANDARDS

ORGANIC MATTER CONTENT	25%-100% (DRY WEIGHT BASIS)
ORGANIC PORTION	FIBROUS AND ELONGATED
PH	5.5-8.5
MOISTURE CONTENT	30%-60%
PARTICLE SIZE	30%-50% PASS THROUGH 3/8" SIEVE
SOLUBLE SALT CONCENTRATION	5.0 DS/M (MMHOS/CM) MAXIMUM

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.

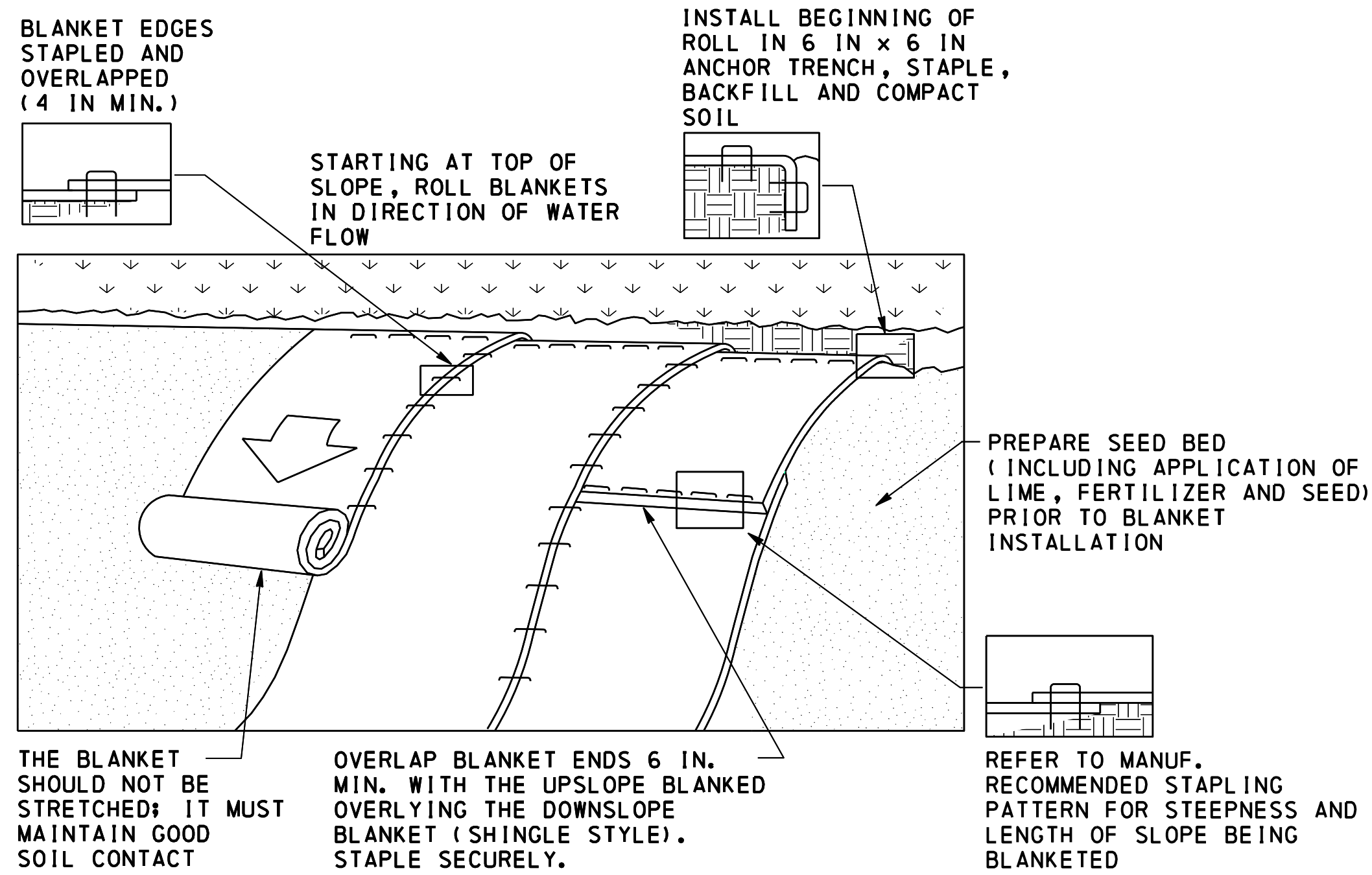
MOUNTABLE BERM SHALL BE INSTALLED WHEREVER OPTIONAL CULVERT PIPE IS USED AND PROPER PIPE COVER AS SPECIFIED BY MANUFACTURER IS NOT OTHERWISE PROVIDED. PIPE SHALL BE SIZED APPROPRIATELY FOR SIZE OF DITCH BEING CROSSED.

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
 ITEM# 0849-0020

Date: 10/18/06 AM
 10/18/06 10:07:06 - Greene County Bridge 1030ComatE&ShomedESD1.dgn

DISTRICT	COUNTY	ROUTE	SECTION	SHEET
12-0	GREENE	T438	G103	4 OF 6
MORRIS TOWNSHIP				
REVISION NUMBER	REVISIONS			DATE BY

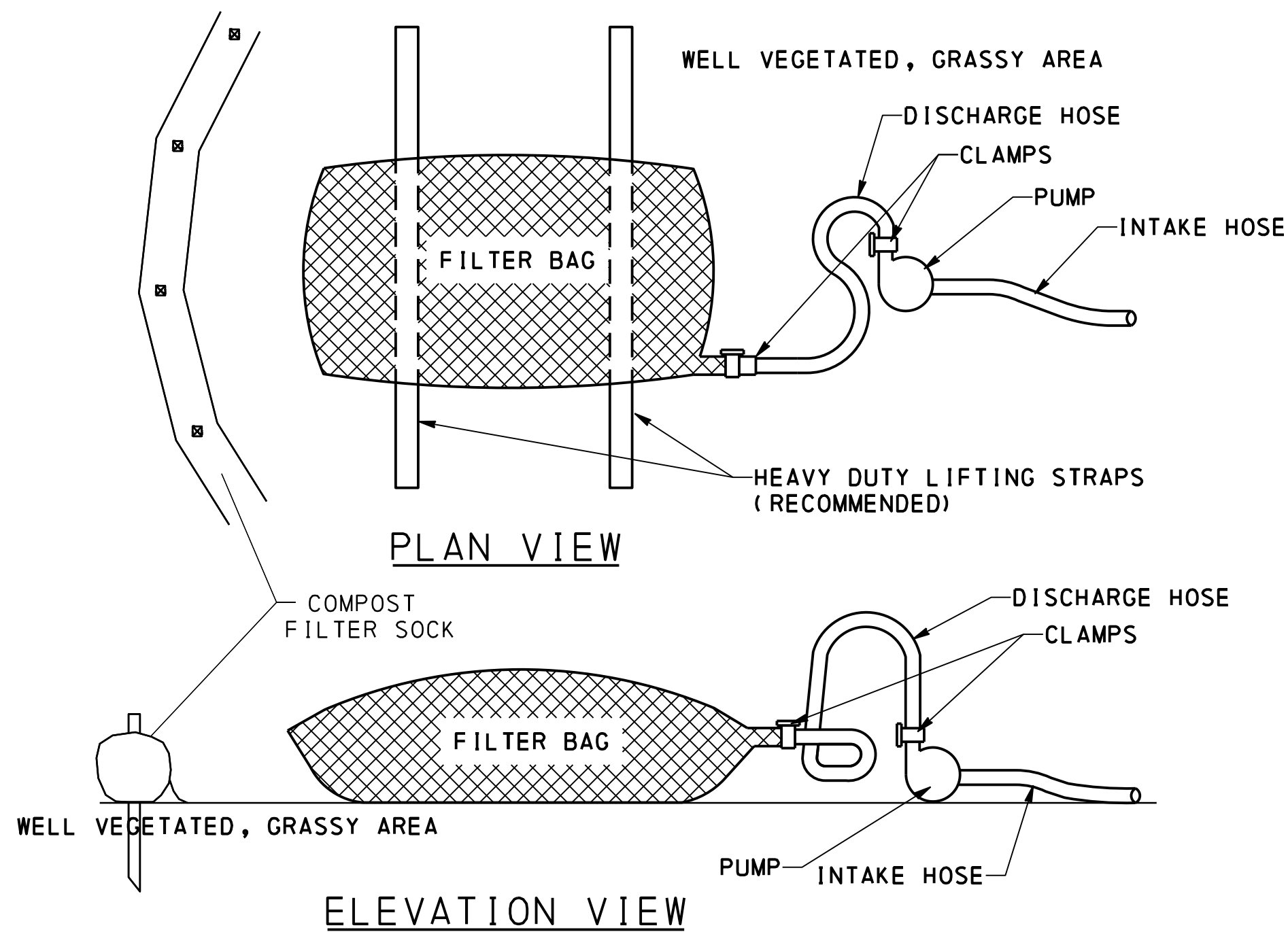


NOTES

- SEED AND SOIL AMENDMENTS SHALL BE APPLIED ACCORDING TO THE RATES IN THE PLAN DRAWINGS PRIOR TO INSTALLING THE BLANKET.
- PROVIDE ANCHOR TRENCH AT TOE OF SLOPE IN SIMILAR FASHION AS AT TOP OF SLOPE.
- SLOPE SURFACE SHALL BE FREE OF ROCKS, CLOUDS, STICKS, AND GRASS.
- BLANKET SHALL HAVE GOOD CONTINUOUS CONTACT WITH UNDERLYING SOIL THROUGHOUT ENTIRE LENGTH. LAY BLANKET LOOSELY AND STAKE OR STAPLE TO MAINTAIN DIRECT CONTACT WITH SOIL. DO NOT STRETCH BLANKET.
- THE BLANKET SHALL BE STAPLED IN ACCORDANCE WITH THE MANUFACTURER'S RECOMMENDATIONS.
- BLANKETED AREAS SHALL BE INSPECTED WEEKLY AND AFTER EACH RUNOFF EVENT UNTIL PERENNIAL VEGETATION IS ESTABLISHED TO A MINIMUM UNIFORM 70% COVERAGE THROUGHOUT THE BLANKETED AREA. DAMAGED OR DISPLACED BLANKETS SHALL BE RESTORED OR REPLACED WITHIN 4 CALENDAR DAYS.

EROSION CONTROL BLANKET INSTALLATION

NOT TO SCALE
ITEM# 0806-0113



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.

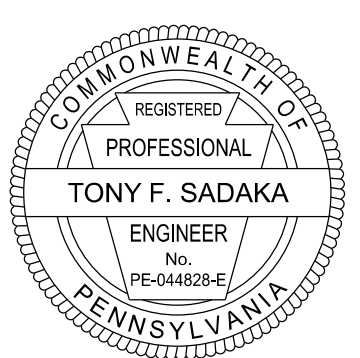
THE PUMP DISCHARGE HOSE SHALL BE INSERTED INTO THE BAGS IN THE MANNER SPECIFIED BY THE MANUFACTURER AND SECURELY CLAMPED. A PIECE OF PVC PIPE IS RECOMMENDED FOR THIS PURPOSE.

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.

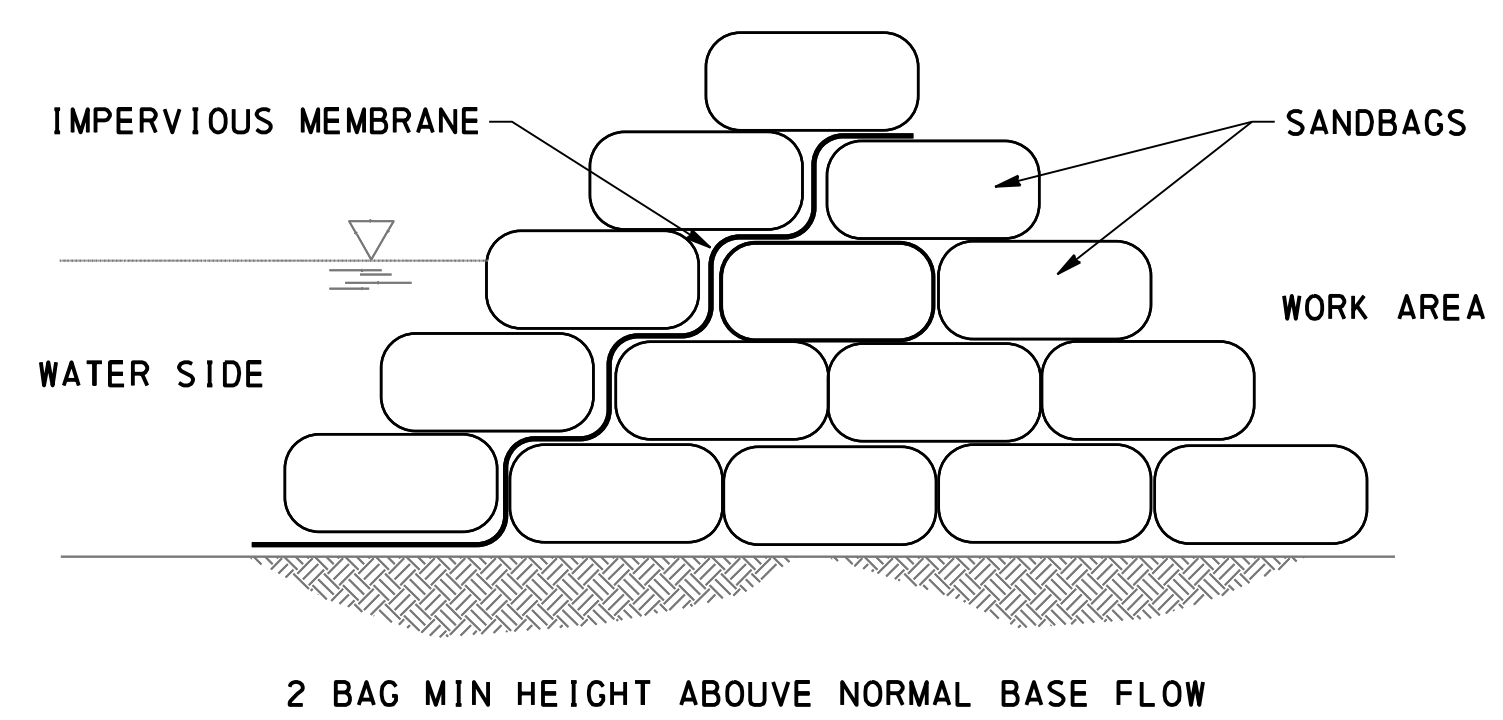
**STANDARD CONSTRUCTION DETAIL #3-16
PUMPED WATER FILTER BAG**

NOT TO SCALE
ITEM# 0855-0003

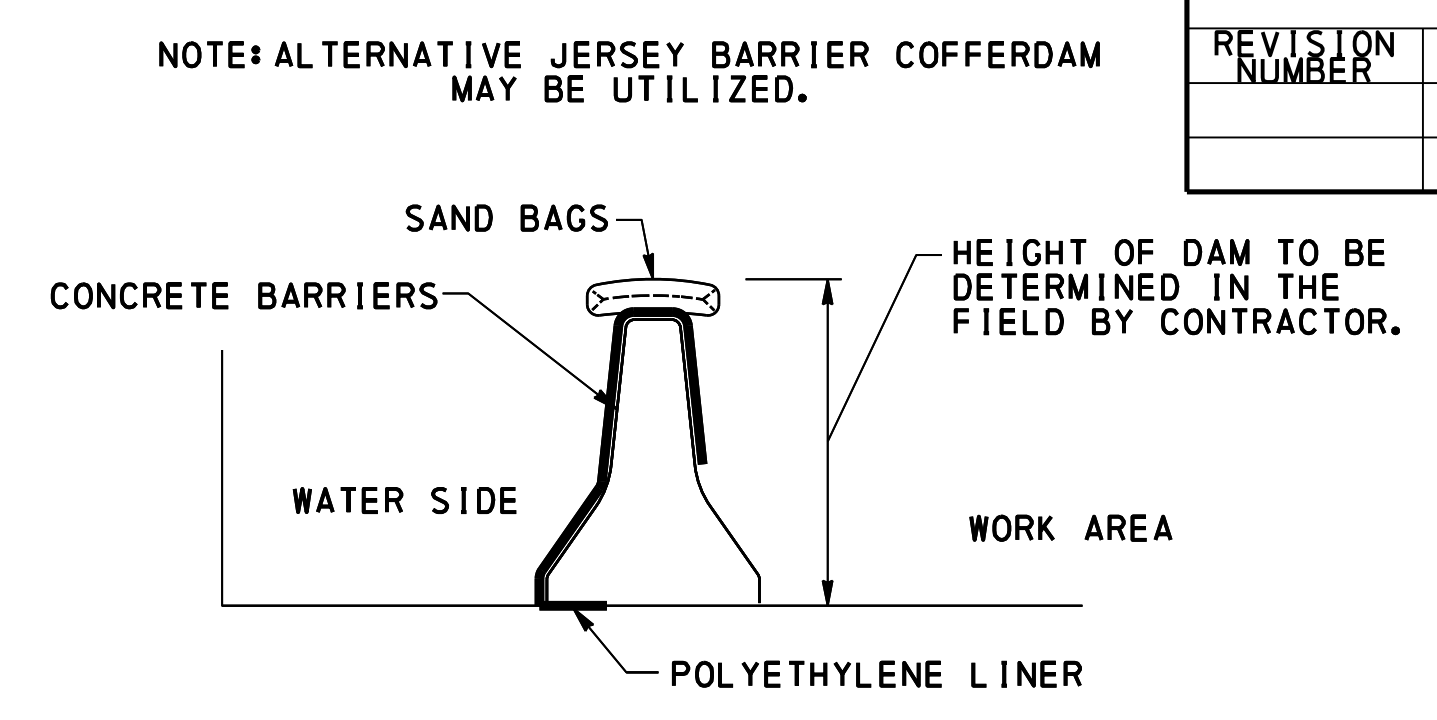


**EROSION AND SEDIMENT
POLLUTION CONTROL PLAN**

DISTRICT	COUNTY	ROUTE	SECTION	SHEET
12-0	GREENE	T438	G103	5 OF 6
MORRIS TOWNSHIP				
REVISION NUMBER	REVISIONS			DATE BY



2 BAG MIN HEIGHT ABOVE NORMAL BASE FLOW
SANDBAG COFFERDAM



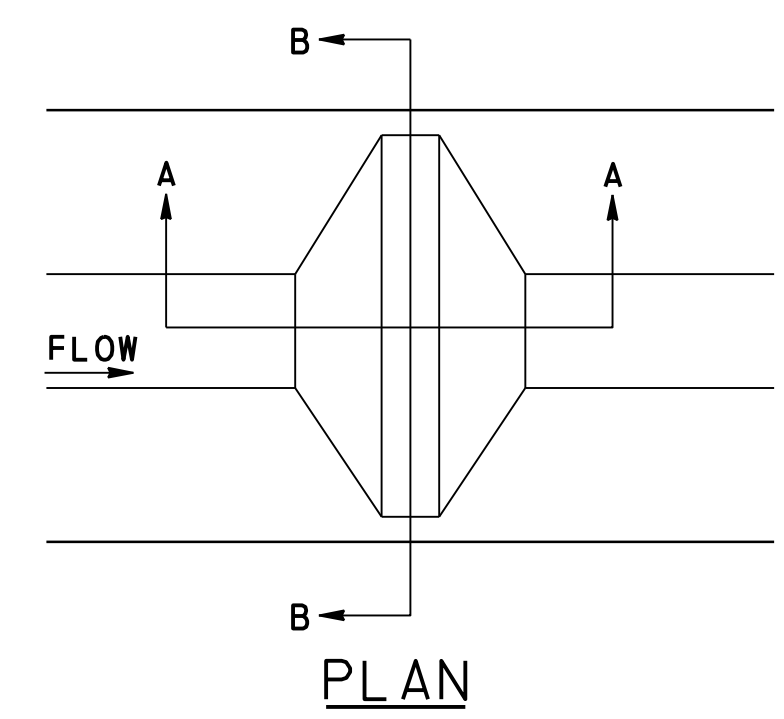
JERSEY BARRIER COFFERDAM

TEMPORARY COFFERDAM

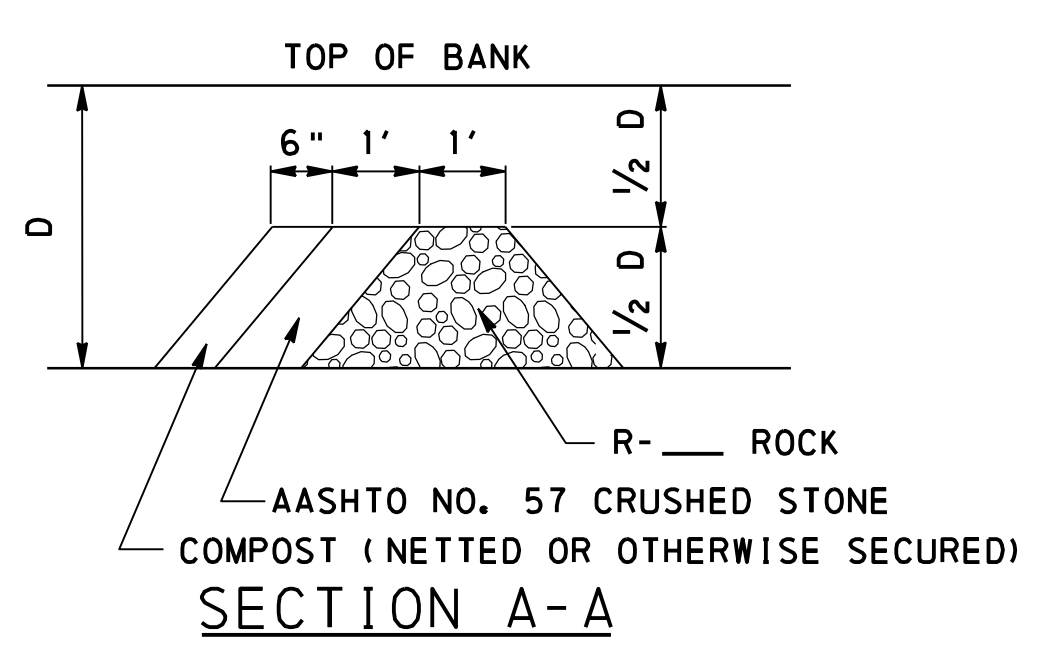
NOT TO SCALE
(INCIDENTAL TO 9000-0001)

NOTES

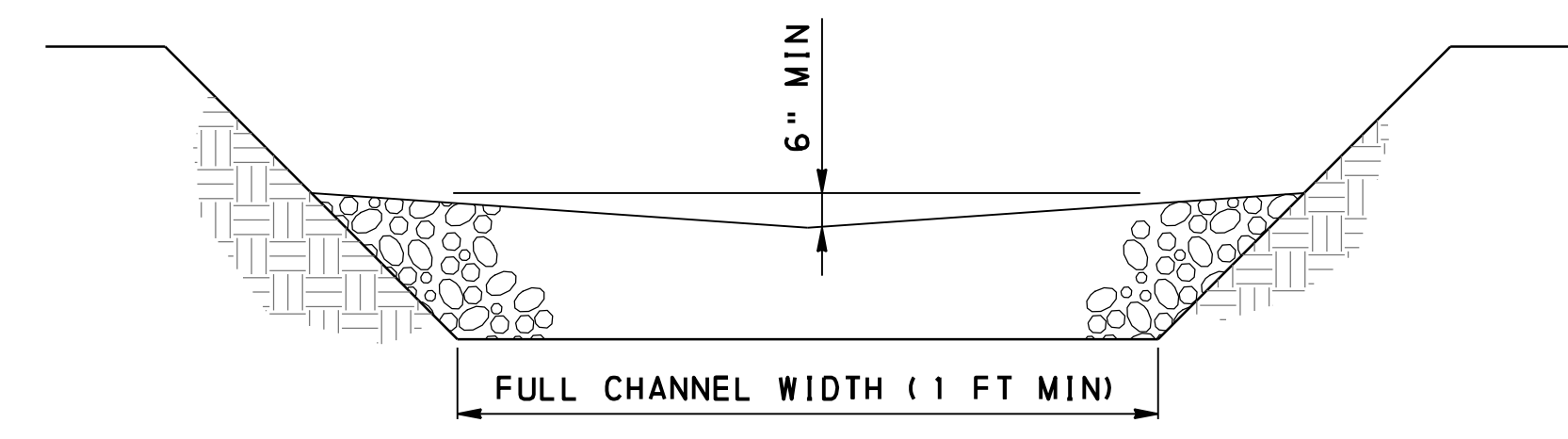
1. THE PROVIDED DETAILS ARE A GENERAL GUIDE FOR COFFERDAM CONSTRUCTION. PROVIDE A DETAILED COFFERDAM DESIGN (CONCRETE BARRIERS, SANDBAGS OR ALTERNATIVE SYSTEM) FOR REVIEW BY PENNDOT AND GREENE COUNTY CONSERVATION DISTRICT.
2. USE THESE GENERAL DETAILS AND PROVIDE ALL NECESSARY SUPPORTS AND/OR BRACING NEEDED TO PREVENT TOPPLING OR DAMAGE DURING HIGHWATER EVENTS.
3. ALTERNATIVE COFFERDAM SYSTEMS ARE ALLOWED.
4. CONTRACTOR SHALL MAINTAIN THE TEMPORARY COFFERDAM AND REPAIR OR REPLACE FAILED OR DETERIORATED INSTALLATIONS AS NECESSARY.
5. REPAIR AND/OR REPLACEMENT OF THE COFFERDAMS IS THE RESPONSIBILITY OF THE CONTRACTOR AT NO ADDITIONAL COST TO PENNDOT OR GREENE COUNTY.
6. WORK AREA TO BE KEPT WATER TIGHT AND ANY WATER THAT IS FOUND IN WORK AREA MUST BE PUMPED TO A FILTER BAG AND PROPERLY FILTERED PRIOR TO DISCHARGE.



PLAN



SECTION A-A

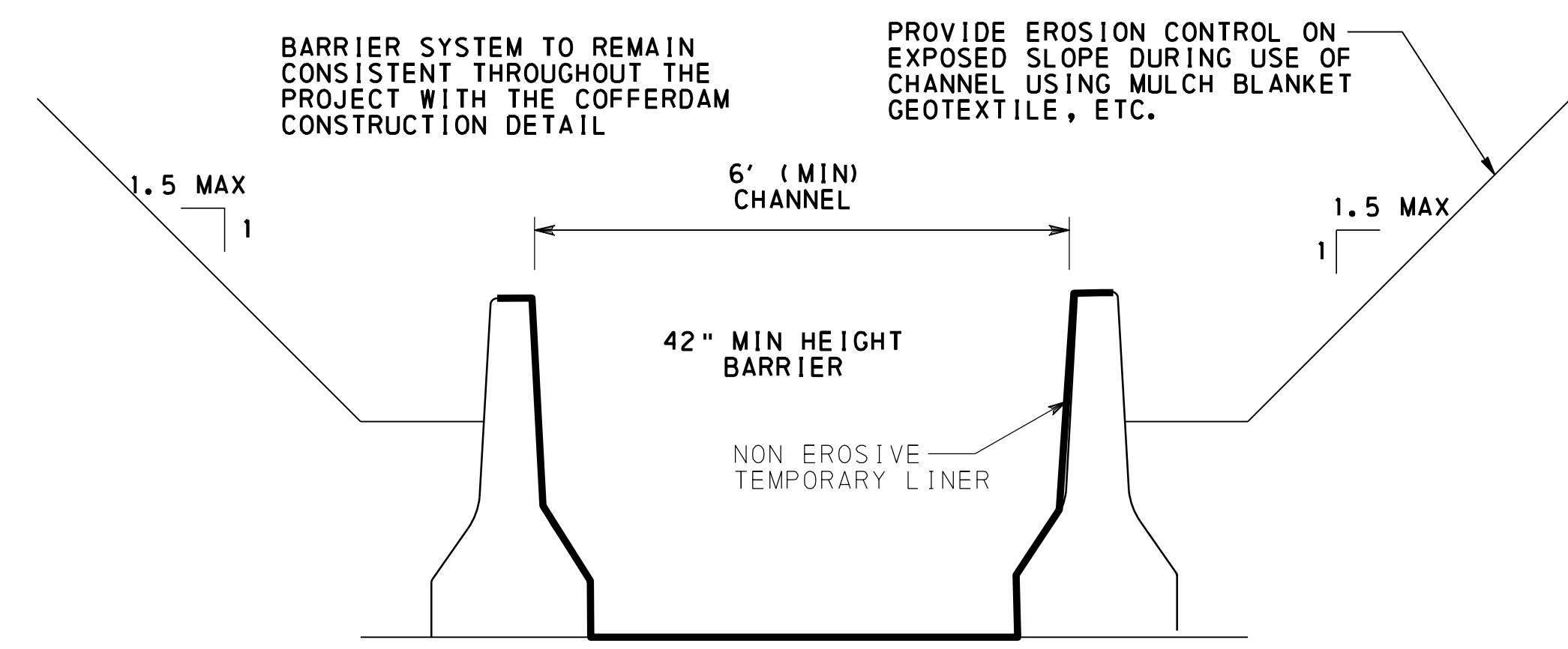


SECTION B-B

NOTES:

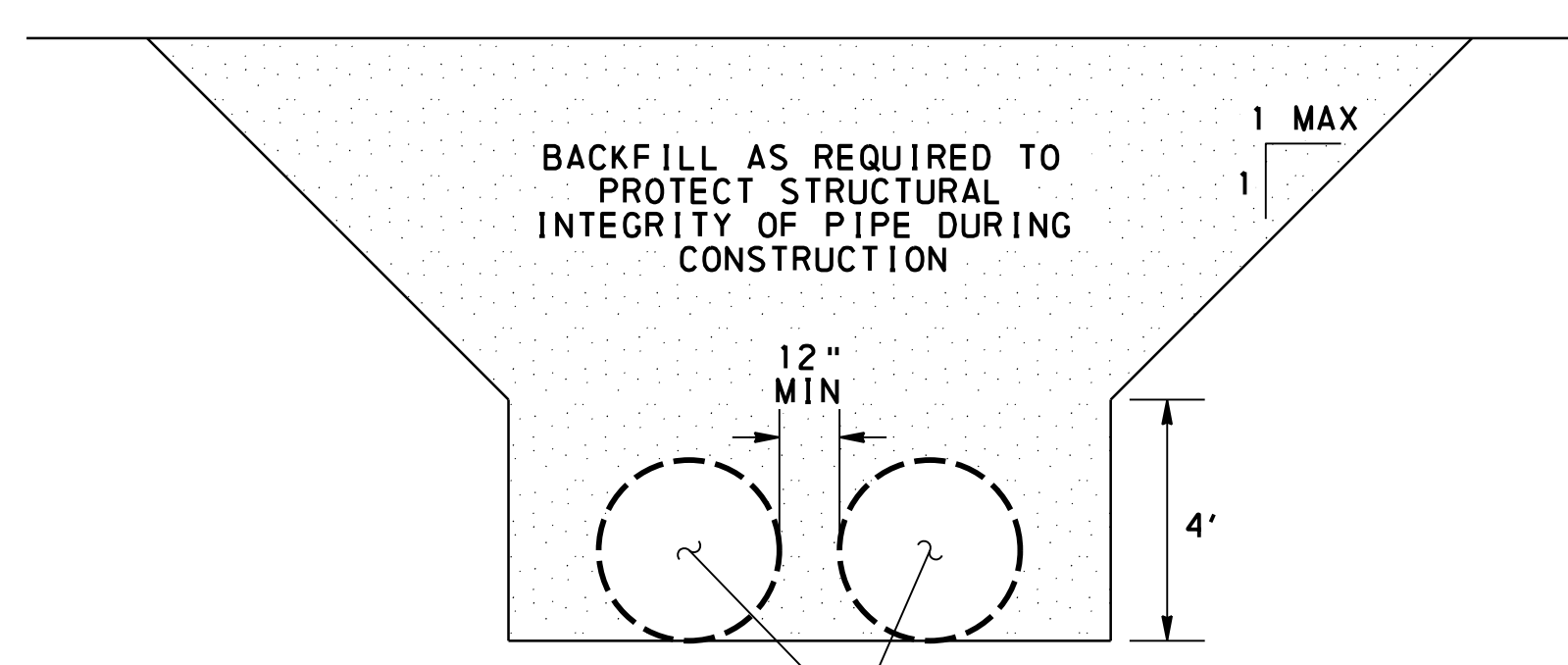
- SEDIMENT MUST BE REMOVED WHEN ACCUMULATIONS REACH 1/2 THE HEIGHT OF THE FILTERS.
- IMMEDIATELY UPON STABILIZATION OF EACH CHANNEL, REMOVE ACCUMULATED SEDIMENT, REMOVE ROCK FILTER, AND STABILIZE DISTURBED AREAS.

STANDARD CONSTRUCTION DETAIL #4-14
ROCK FILTER
NOT TO SCALE
(INCIDENTAL TO 9000-0001)



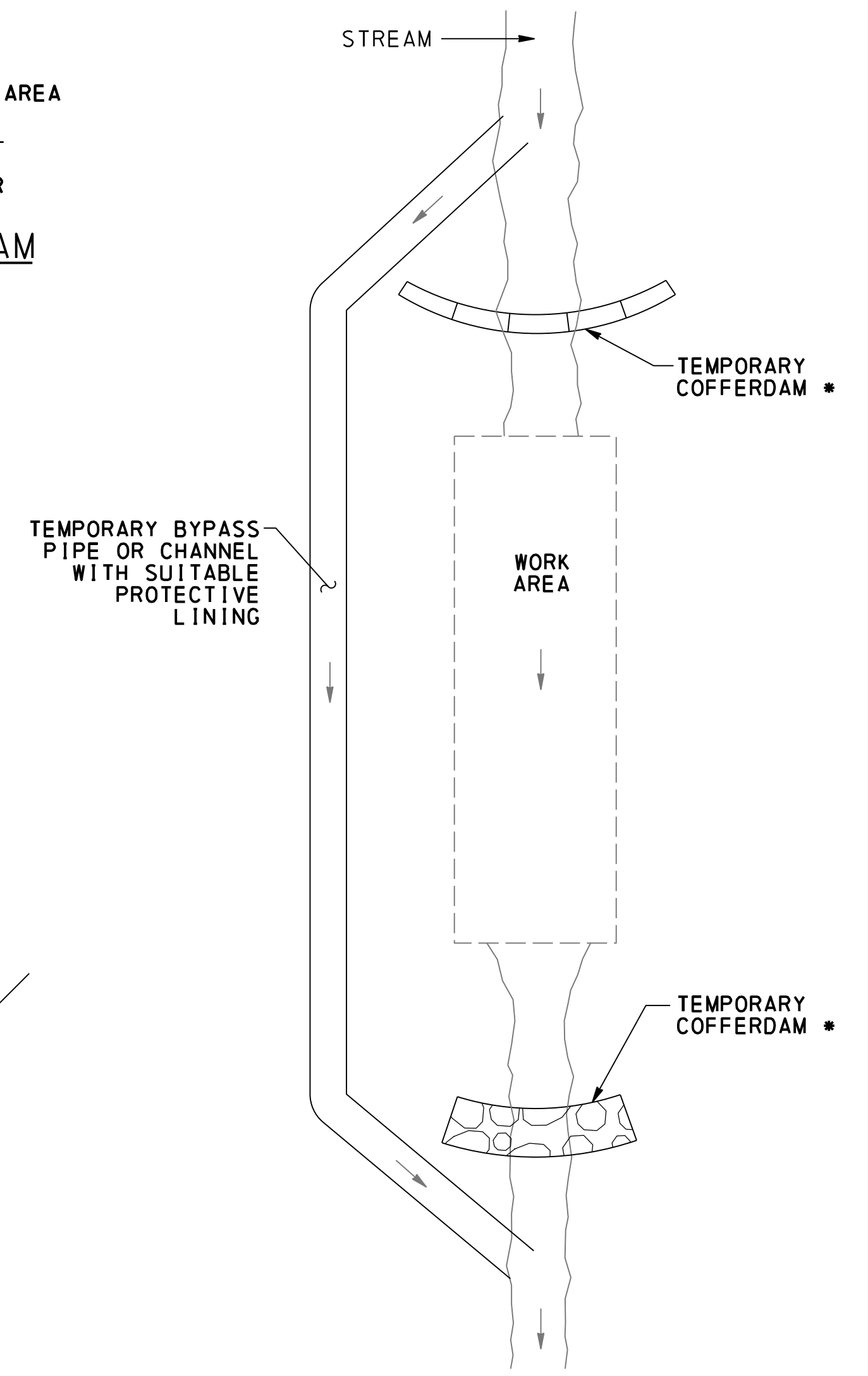
TEMPORARY CHANNEL DETAIL

NOT TO SCALE
(INCIDENTAL TO 9000-0001)



TEMPORARY PIPE BYPASS DETAIL

NOT TO SCALE
(INCIDENTAL TO 9000-0001)



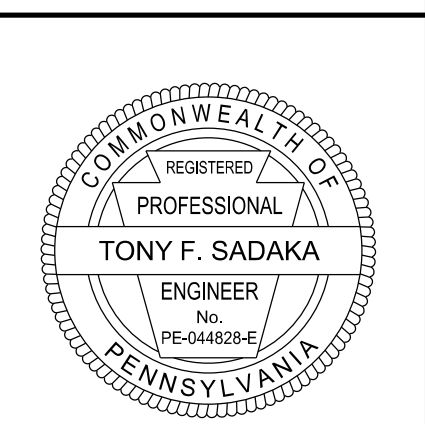
* SANDBAG OR JERSEY BARRIER COFFERDAM, NO EARTH FILL.

BYPASS AROUND
IN-CHANNEL WORK AREA

TEMPORARY STREAM DIVERSION

NOT TO SCALE
ITEM # 9000-0001

EROSION AND SEDIMENT
POLLUTION CONTROL PLAN



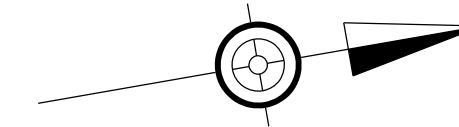
Date: 10/18/07 AM
 2:02:00 PM
 C:\020201\200706 - Greene County Bridge 103\ComanE&S\shome\ESD7L.dgn

DRAWN BY: SMR CHECKED BY: JLM

PROJECT CONSTRUCTION SEQUENCE

1. STAKE THE LIMITS OF DISTURBANCE, INSTALL TEMPORARY PROTECTIVE FENCE AT WETLANDS AND PERFORM CLEARING AND GRUBBING REQUIRED TO PLACE PERIMETER BMPs AND TO INSTALL ROCK CONSTRUCTION ENTRANCE WITH WASH RACK. STOCKPILE TOPSOIL IN THE VICINITY OF THE WORK. ENSURE THAT THESE BMPs ARE FUNCTIONING PROPERLY PRIOR TO THE COMPLETION OF ANY OTHER WORK.
2. EXCAVATE AND PLACE STREAM DIVERSION USING SAME DAY TRENCHING AND BACKFILL TECHNIQUES. AT NO TIME SHALL MORE THAN 20 LF OF TRENCHING BE OPEN AT THE END OF THE WORK DAY. STABILIZE AREA IMMEDIATELY AFTER INSTALLING THE DIVERSION. INSTALL COFFERDAM UPSTREAM AND DOWNSTREAM OF WORK AREA. INSTALL THE PUMPED WATER FILTER BAG IN LOCATION AS SHOWN ON PLAN DRAWINGS PRIOR TO ANY DEWATERING ACTIVITIES.
3. CLEAR AND GRUB PROJECT AREA WITHIN LIMIT OF DISTURBANCE AS NECESSARY. REMOVE EXISTING BRIDGE AND DISPOSE IN ACCORDANCE WITH SOLID WASTE MANAGEMENT REGULATIONS SPECIFIED IN 25 PA CODE 260.1 ET SEQ., 271.1 AND 287.1 ET. SEQ. SALVAGE AND STOCKPILE SUITABLE STREAMBED MATERIAL FOR PLACEMENT ON THE FLOOR OF THE NEW CULVERT.
4. PERFORM EXCAVATION REQUIRED FOR PLACEMENT OF ALUMINUM BOX CULVERT STRUCTURE AND CUT-OFF WALLS. ANY DEWATERING REQUIRED TO KEEP EXCAVATION AREA DRY MUST BE ROUTED THROUGH THE PUMPED WATER FILTER BAG.
5. BACKFILL STRUCTURE AND PROVIDE FINAL GRADING FOR NEW CULVERT APPROACH. STABILIZE AREA WITH SEEDING OR SUBBASE AS SOON AS PRACTICABLE.
6. INSTALL FINAL PAVEMENT, GUIDERAIL, AND SIGNAGE IN ACCORDANCE WITH PLAN DRAWINGS.
7. PROVIDE FINAL SEEDING AND STABILIZATION OF ALL REMAINING AREAS WITHIN CONSTRUCTION LIMITS. VEGETATED AREAS SHALL BE CONSIDERED STABILIZED UPON ACHIEVING A MINIMUM UNIFORM 70% PERENNIAL VEGETATIVE COVER OVER THE ENTIRE DISTURBED AREA. UPON COMPLETION OF STABILIZATION AND APPROVAL FROM THE ENGINEER AND THE GREENE COUNTY CONSERVATION DISTRICT, ALL TEMPORARY BMPs STILL IN PLACE SHALL BE REMOVED AND DISPOSED OF PROPERLY AND THOSE AREAS STABILIZED.

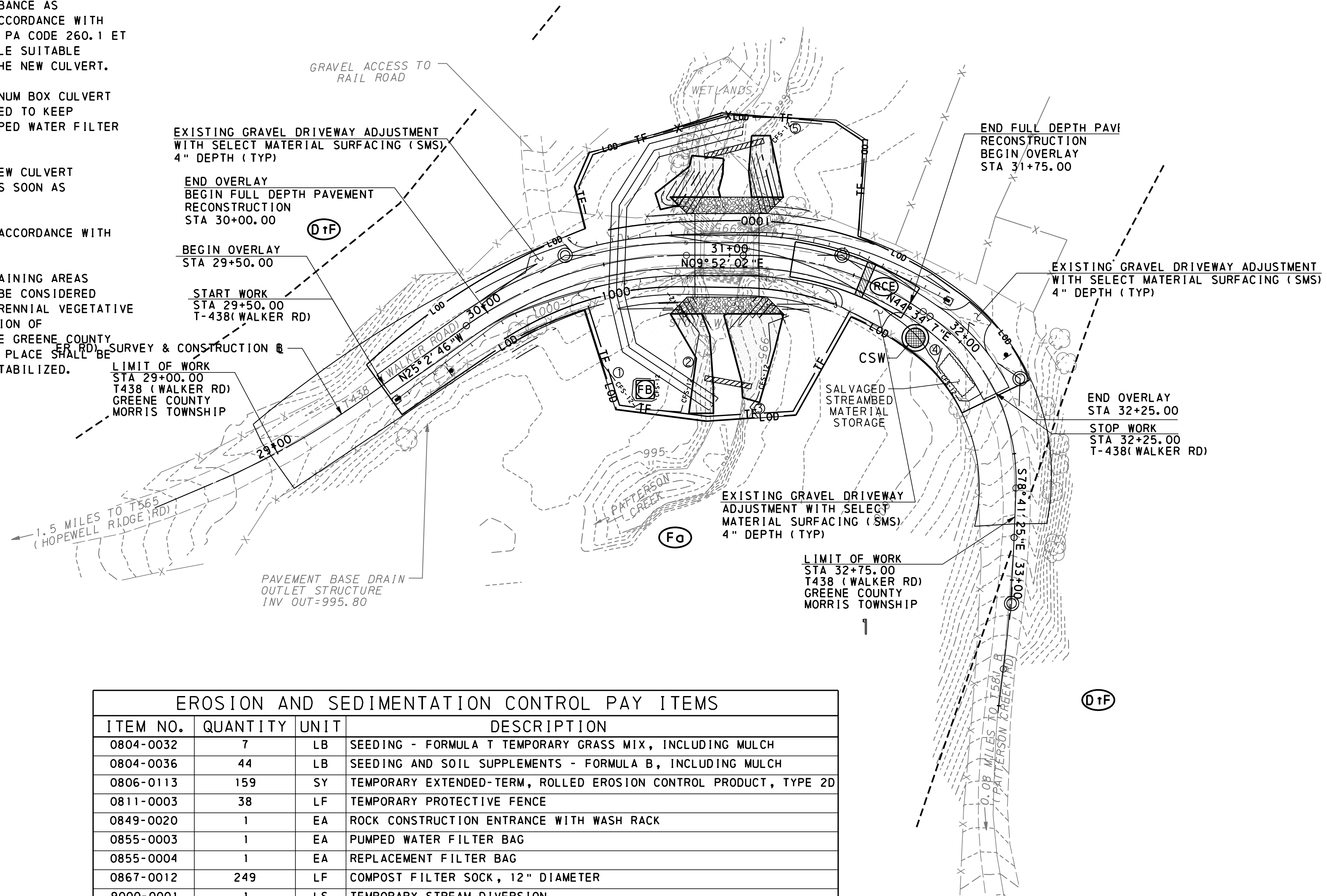
TEMPORARY WETLAND IMPACTS - 198.5 SF



DISTRICT	COUNTY	ROUTE	SECTION	SHEET
12-0	GREENE	T438	G103	6 OF 6
MORRIS TOWNSHIP				
REVISION NUMBER	REVISIONS	DATE	BY	

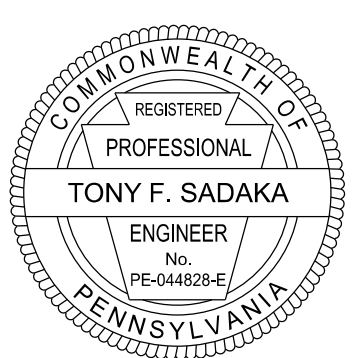
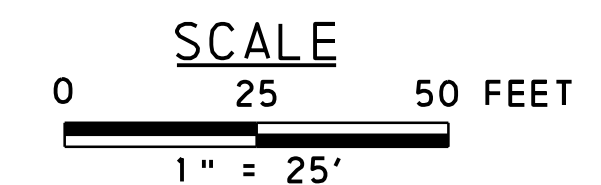
SOIL TYPE AND DESCRIPTION
SOIL SURVEY OF GREENE COUNTY

SYMBOL	SOIL NAME	% SLOPES
(D1F)	DORMONT-CULLEOKA COMPLEX	25% - 50%
(Fa)	FLUVAQUENTS, LOAMY	0% - 3%

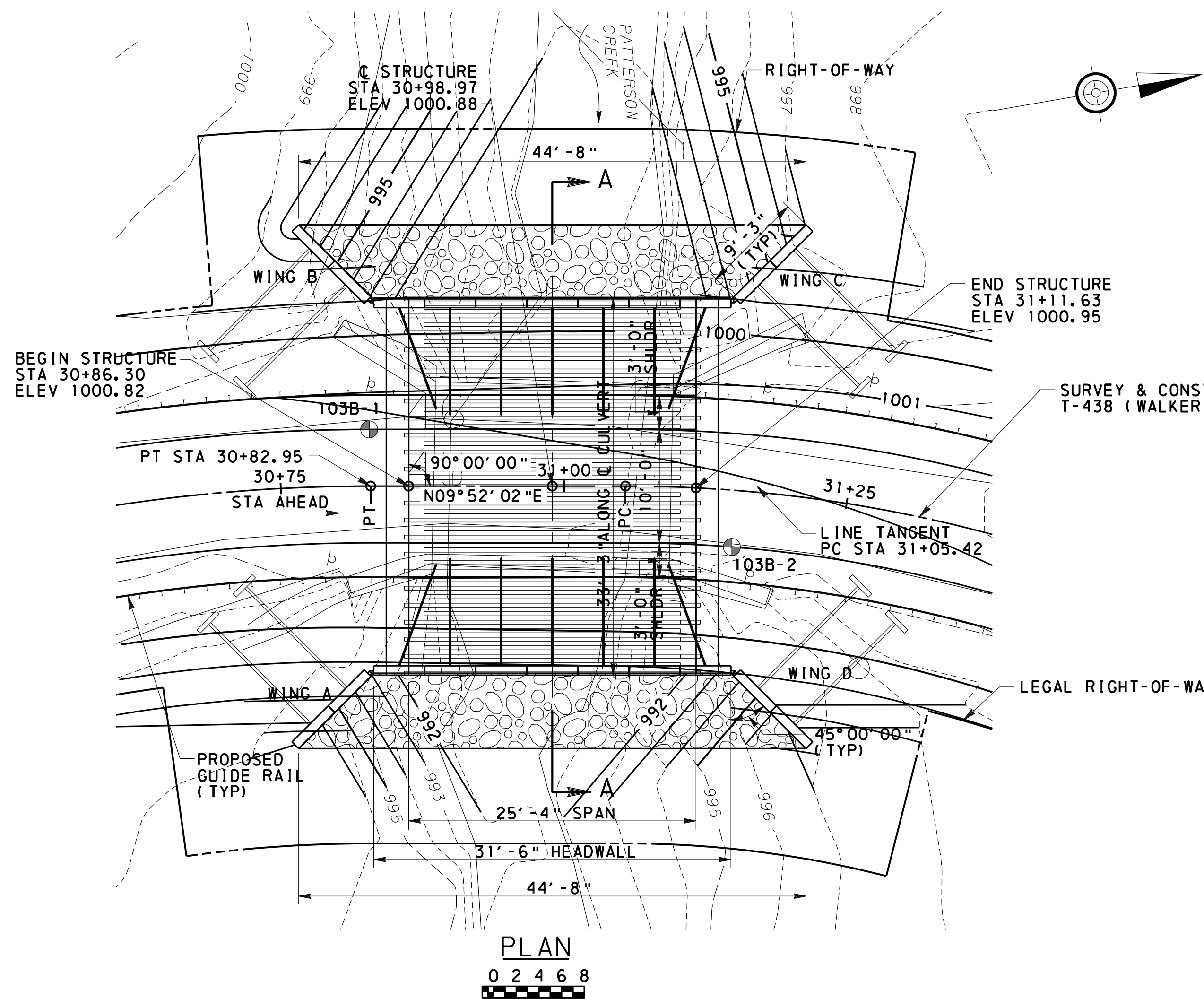


LEGEND	
(RCE)	ROCK CONSTRUCTION ENTRANCE WITH WASH RACK
(FB)	PUMPED WATER FILTER BAG
[Hatched Box]	SEEDING/VEGETATED AREAS
[Dotted Box]	SEEDING/VEGETATED AREAS TEMP EXTENDED - TERM, ROLLED EROSION CONTROL PRODUCT, TYPE 2D
[Hatched Box]	TEMPORARY COFFERDAM
-F-	LIMIT OF FILL
-C-	LIMIT OF CUT
-LOD-	LIMIT OF DISTURBANCE
-TF-	TEMPORARY FENCE
- - -	SOIL BOUNDARY LIMITS
-CFS-12-	COMPOST FILTER SOCK, 12"
-X-	TEMPORARY PROTECTIVE FENCE
[Hatched Box]	TEMPORARY STREAM DIVERSION
(CSW)	COMPOST SOCK WASHOUT

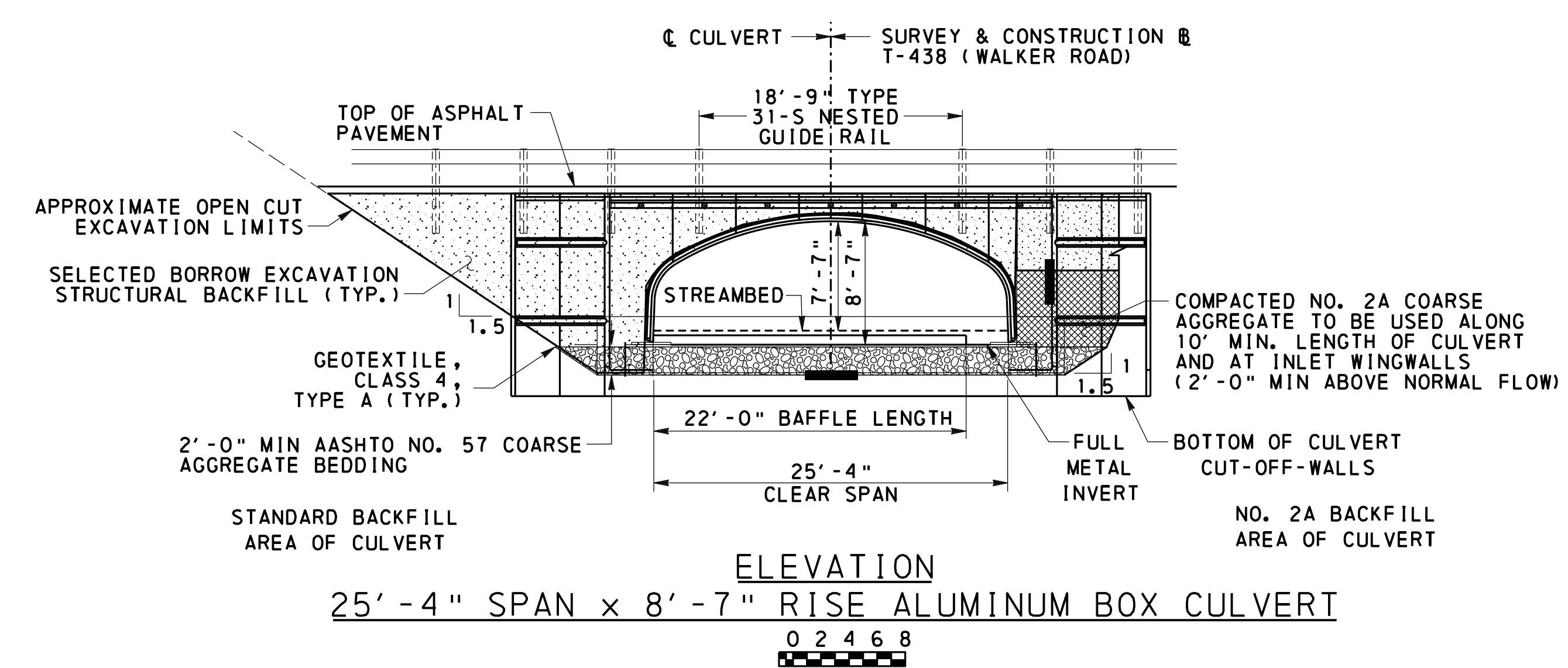
EROSION AND SEDIMENTATION CONTROL PAY ITEMS			
ITEM NO.	QUANTITY	UNIT	DESCRIPTION
0804-0032	7	LB	SEEDING - FORMULA T TEMPORARY GRASS MIX, INCLUDING MULCH
0804-0036	44	LB	SEEDING AND SOIL SUPPLEMENTS - FORMULA B, INCLUDING MULCH
0806-0113	159	SY	TEMPORARY EXTENDED-TERM, ROLLED EROSION CONTROL PRODUCT, TYPE 2D
0811-0003	38	LF	TEMPORARY PROTECTIVE FENCE
0849-0020	1	EA	ROCK CONSTRUCTION ENTRANCE WITH WASH RACK
0855-0003	1	EA	PUMPED WATER FILTER BAG
0855-0004	1	EA	REPLACEMENT FILTER BAG
0867-0012	249	LF	COMPOST FILTER SOCK, 12" DIAMETER
9000-0001	1	LS	TEMPORARY STREAM DIVERSION



EROSION AND SEDIMENT POLLUTION CONTROL PLAN



PLAN
0 2 4 6 8

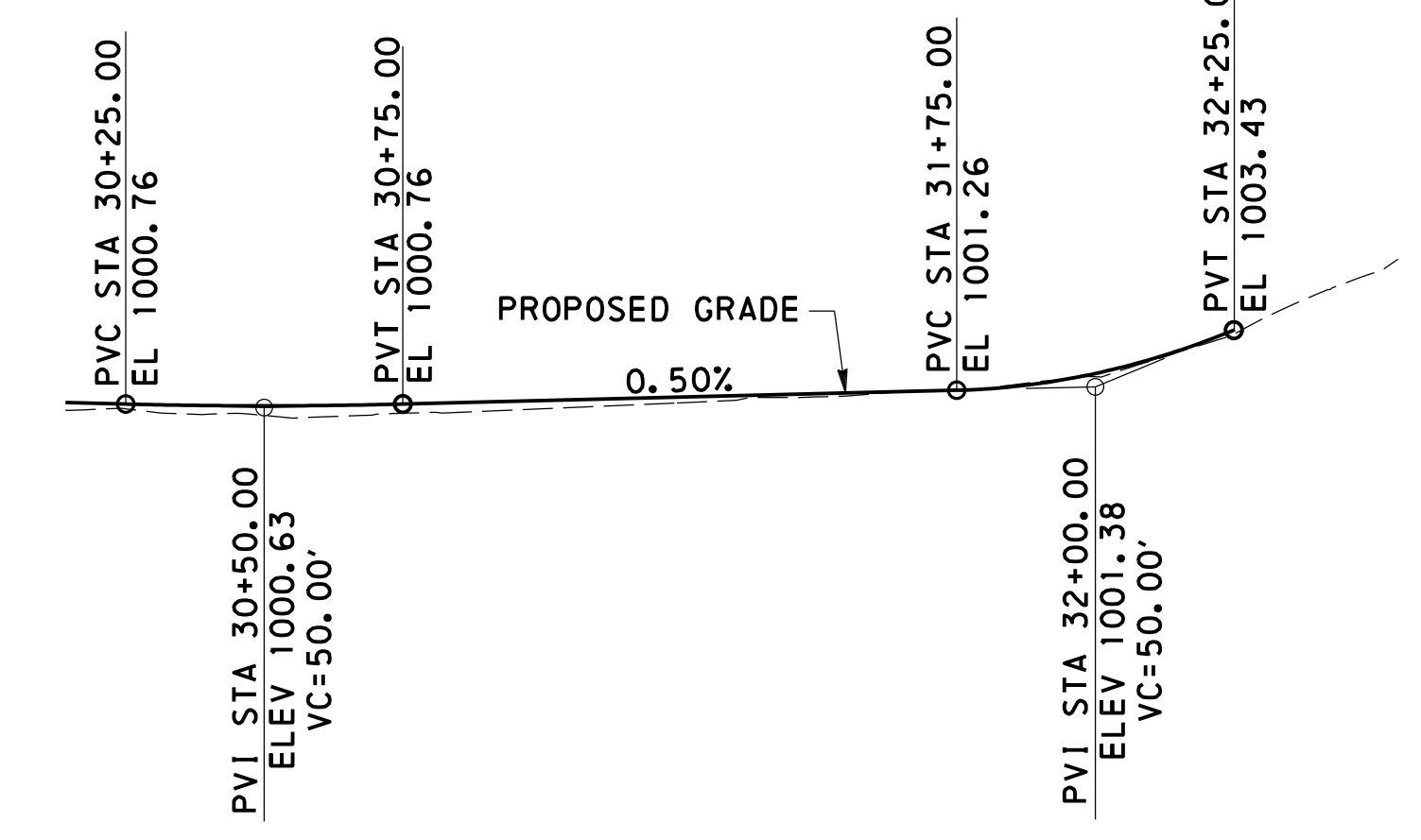


ELEVATION
25'-4" SPAN x 8'-7" RISE ALUMINUM BOX CULVERT
0 2 4 6 8

HORIZONTAL CURVE DATA
T438

PI STA= 29+06.34 Δ LT= 12°21'56" D= 38°11'50" T= 32.50' L= 64.75' R= 300.00' E= 1.76' PC STA= 28+73.84 PT STA= 29+38.58	PI STA= 30+38.08 Δ= 38°33'50"RT D= 35°27'13" T= 47.95' L= 92.82' R= 150.00' E= 7.48' PC STA= 29+90.14 PT STA= 30+82.95	PI STA= 31+44.47 Δ= 34°42'05"RT D= 45°50'12" T= 39.05' L= 75.71' R= 125.00' E= 5.96' PC STA= 30+05.42 PT STA= 31+81.13	PI STA= 32+27.68 Δ= 57°27'11"RT D= 72°31'35" T= 43.30' L= 79.22' R= 79.00' E= 11.09' PC STA= 31+84.38 PT STA= 32+63.60
---	--	--	--

VERTICAL CURVE DATA



HYDRAULIC DATA
PATTERSON CREEK

DRAINAGE AREA: 5.92 SQ MILES FLOOD OF RECORD: UNKNOWN	
EXISTING	PROPOSED
DESIGN STORM	DESIGN STORM
DISCHARGE: 635 CFS	DISCHARGE: 635 CFS
RETURN PERIOD: 10 YEARS	RETURN PERIOD: 10 YEARS
WATER SURFACE ELEV: 997.48'	WATER SURFACE ELEV: 996.50'
VELOCITY: 6.77 FPS	VELOCITY: 9.06 FPS
100 YEAR FLOOD	100 YEAR FLOOD
DISCHARGE: 1260 CFS	DISCHARGE: 1260 CFS
WATER SURFACE ELEV: 1001.14'	WATER SURFACE ELEV: 997.95'
VELOCITY: 5.70 FPS	VELOCITY: 11.94 FPS

EXISTING STRUCTURE DATA

STA - 30+98.97
TYPE - CONCRETE ENCASED STEEL I-BEAM
NORMAL CLEAR SPAN - 1 @ 21'-0" (±)
SKEW 90°
CLEAR ROADWAY WIDTH - 13'-9"
UNDERCLEARANCE - 7.5'
LOW CHORD ELEV - 998.73'

PROPOSED STRUCTURE DATA

STA - 30+98.97
TYPE - ALUMINUM STRUCTURAL PLATE BOX CULVERT
NORMAL CLEAR SPAN - 25'-4"
SKEW 90°
CLEAR ROADWAY WIDTH - 16'-0"
UNDERCLEARANCE - 7.6'
LOW CHORD ELEV - 998.91'

AS-DRILLED BORING LOCATIONS

HOLE NO.	STATION	OFFSET (FT)	
		LEFT	RIGHT
103B-1	30+83	5.0	---
103B-2	31+15	---	5.0

- LEGEND**
- 996--- EXISTING 1' CONTOURS
 - 995--- EXISTING 5' CONTOURS
 - 1001— PROPOSED 1' CONTOURS
 - 1000— PROPOSED 5' CONTOURS
 - o—o— EXISTING STREAM EDGE
 - x—x— EXISTING FENCE
 - |—|— PROPOSED GUIDE RAIL
 - P— EXISTING SIGN
 - CORE BORING LOCATION
 - [Pattern] SELECT BORROW EXCAVATION R-7 GROUTED WITH CLASS A CEMENT CONCRETE

MARK	DESCRIPTION	BY	CHK'D	REC'D	DATE
REVISIONS					

INDEX OF DRAWINGS

SHEET	TITLE
1	GENERAL PLAN AND ELEVATION
2	PROFILE AND GENERAL NOTES
3	STAKE-OUT PLAN
4	STRUCTURE BORING LOGS

SUPPLEMENTAL DRAWINGS

DESCRIPTION	DATE	BY
CLASSIFICATION OF EARTHWORK FOR STRUCTURES	RC-11M	6-1-10
BACKFILL AT STRUCTURES	RC-12M	11-1-22
TYPE 31 STRONG POST GUIDE RAIL	RC-51M	9-1-23
ALUMINUM STRUCTURAL PLATE BOX CULVERT	2012-110 PE	9-25-12
ALUMINUM STRUCTURAL PLATE BOX CULVERT	2013-224 PE	10-18-19

BMS NO. 30-7214-0438-2103 BRKEY: 18523

MORRIS TOWNSHIP

GREENE COUNTY

GREENE COUNTY BRIDGE NO. 103

T-438 (WALKER ROAD) STA 30+98.97

OVER

PATTERSON CREEK

25'-4" X 8'-7" ALUMINUM

STRUCTURAL PLATE BOX CULVERT

GENERAL PLAN AND ELEVATION

RECOMMENDED _____

SHEET 1 OF 4

L-591

PREPARED BY:

WE
WIDMER ENGINEERING
INC.

806 LINCOLN PLACE, BEAVER FALLS, PA 15010

03/10/2025 10:08:11
 1033StructurePlan1.dwg
 1033StructurePlan1.dwg

CULVERT

1005
1000
995
990
985
980
975
970
965

INLET

BORING NUMBER 103B-1		BORING LOCATION (STATION & OFFSET) 30+83 5.0' LT		START DATE: 07/29/24		FINISH DATE: 07/29/24	
VERTICAL SCALE 1" = 5'-0"		DRILLING METHODS SOIL: 3/8" H.S. AUGERS, CONTINUOUS SPT'S		SIZE OF CORE: NX		INSPECTOR: DAVE ROEBUCK	
A	B	C	D	E	F	G	REMARKS
1.5	S-1	4-4-4	1.0	67	NA	sc a-2-6	0.0-3.0' CLAYEY SAND WITH GRAVEL, DARK BROWN, MOIST, LOOSE, +PL, -LL, SAND IS FINE TO MEDIUM, GRAVEL IS SLAG, CINDERS. (FILL)
3.0	S-2	6-8-2	1.2	80	NA		EL 997.8
4.5	S-3	3-2-2	0.0	0	NA		3.0-9.0' SANDY SILT, BROWN TO GRAY, VERY MOIST, VERY LOOSE TO LOOSE, NP, SAND IS FINE. (ALLUVIUM)
6.0	S-4	2-2-1	1.5	100	NA	ml c-4	
7.5	S-5	WOH-1-1	1.5	100	NA		EL 991.8
9.0	S-6	2-3-5	1.5	100	NA		EL 991.8
10.5	S-7	21-5-3	1.0	67	NA	sm a-2-4	9.0-11.0' SILTY SAND WITH GRAVEL, BROWN, MOIST, LOOSE, NP, SAND IS FINE TO MEDIUM, GRAVEL IS SANDSTONE. (ALLUVIUM)
12.0	S-8	7-16-22	1.3	87	NA		EL 989.8
13.3	S-9	22-17-50/.3	1.2	92	NA	gc-gm c-1-b	11.0-15.0' SILTY, CLAYEY GRAVEL, GRAY, MOIST, DENSE TO VERY DENSE, FINES ARE +PL, -LL, GRAVEL IS SHALE. (RESIDUAL)
15.0	A-N						EL 985.8
17.0	R-1		2.0	100			15.0-15.8' LIMESTONE, GRAY, HARD, SLIGHTLY WEATHERED, MODERATE BEDDING (RD= 0-5), BROKEN. (UNIT RQD = 0%)
			0.7	35			EL 985.0
							15.8-17.3' SILTSTONE, GRAY, MEDIUM HARD, SLIGHTLY WEATHERED, MODERATE BEDDING (RD= 0-5). (UNIT RQD = 50%)
							EL 983.5
	R-2		5.0	100			17.3-20.7' SHALE, GRAY, VERY SOFT TO SOFT, HIGHLY TO MODERATELY WEATHERED, INDISTINCT TO NARROW BEDDING (RD= 0-5). (UNIT RQD = 21%)
			2.4	48			EL 980.1
22.0							20.7-25.0' SANDSTONE, MEDIUM GRAIN, GRAY, HARD, FRESH, MEDIUM TO THICK BEDDING (RD= 0-5). (UNIT RQD = 100%)
	R-3		3.0	100			EL 975.8
			3.0	100			

END OF BORING AT 25.0 FEET
NEVER LOST DRILL WATER RETURN

OUTLET

BORING NUMBER 103B-2		BORING LOCATION (STATION & OFFSET) 31+15 5.0' RT		START DATE: 07/29/24		FINISH DATE: 07/29/24	
VERTICAL SCALE 1" = 5'-0"		DRILLING METHODS SOIL: 3/8" H.S. AUGERS, CONTINUOUS SPT'S		SIZE OF CORE: NQ2		INSPECTOR: DAVE ROEBUCK	
A	B	C	D	E	F	G	REMARKS
1.5	S-1	3-4-3	1.5	100	1	cl a-6	0.0-4.0' SANDY CLAY WITH GRAVEL, BROWN, MOIST, MEDIUM STIFF, +PL, -LL, SAND IS MEDIUM, GRAVEL IS CINDERS, SLAG, SANDSTONE. (FILL)
3.0	S-2	3-4-14	1.5	100	.5		EL 996.9
4.5	S-3	12-37-5	1.3	87	NA		
6.0	S-4	2-2-2	1.3	87	NA		4.0-10.0' SANDY SILT, BROWN, MOIST TO VERY MOIST, VERY SOFT TO SOFT, NP, SAND IS FINE. (ALLUVIUM)
7.5	S-5	1-WOH-WOH	0.0	0	NA	ml a-4	
9.0	S-6	2-1-1	1.5	100	NA		EL 990.9
10.5	S-7	WOH-2-5	1.0	67	NA		EL 990.9
12.0	S-8	7-8-7	1.1	73	NA	sm a-2-4	10.0-13.0' SILTY SAND WITH GRAVEL, BROWN, MOIST, LOOSE TO MEDIUM DENSE, NP, SAND IS FINE TO MEDIUM, GRAVEL IS SANDSTONE. (ALLUVIUM)
13.5	S-9	4-5-12	1.2	80	NA		EL 987.9
15.5	S-10	3-4-50/.2	1.0	83	NA	gc a-1-b	13.0-15.5' CLAYEY GRAVEL (SHALE), GRAY, MOIST, MEDIUM DENSE TO VERY DENSE, FINES ARE +PL, -LL. (RESIDUAL)
17.0	R-1		1.5	100			15.5-17.0' LIMESTONE, GRAY, SOFT, HIGHLY WEATHERED, INDISTINCT BEDDING. (UNIT RQD = 0%)
			0.0	0			EL 983.9
	R-2		4.8	96			17.0-17.9' SILTSTONE, GRAY, MEDIUM HARD, SLIGHTLY WEATHERED, MODERATE BEDDING (RD= 0-5). (UNIT RQD = 0%)
			0.5	10			EL 983.0
							17.9-22.6' SHALE, GRAY, VERY SOFT TO SOFT, HIGHLY TO MODERATELY WEATHERED, INDISTINCT TO NARROW BEDDING (RD= 0-5). (UNIT RQD = 11%)
22.0							EL 978.3
	R-3		4.0	100			22.6-26.0' SANDSTONE, MEDIUM GRAIN, GRAY, HARD, FRESH, MEDIUM TO THICK BEDDING (RD= 0-5). (UNIT RQD = 100%)
			3.4	85			EL 974.9

END OF BORING AT 26.0 FEET
NEVER LOST DRILL WATER RETURN

GENERAL NOTES

COLUMN A - PROFILE DEPTH IN FEET
COLUMN B - SAMPLE NO. & TYPE OR RUN NO.
COLUMN C - NUMBER OF BLOWS FOR EVERY 0.5 FT (EXCEPT AS NOTED) ON SPOON SAMPLER FOR SPT
COLUMN D - AMOUNT OF RECOVERY IN FEET
COLUMN E - % OF SOIL RECOVERY OR % OF ROCK RECOVERY AND ROCK QUALITY DESIGNATION (RQD) (PERCENTAGES SHOWN AS RECOVERY % / RQD %)
COLUMN F - POCKET PENETROMETER IN TSF
COLUMN G - USCS AND AASHTO CLASSIFICATION

SE - SURFACE ELEVATION IN FEET
SBE - STREAM BED ELEVATION IN FEET
BCE - BOTTOM OF CULVERT ELEVATION IN FEET
BUC - BOTTOM OF UNDERCUT ELEVATION IN FEET
BHUC - BOTTOM OF HEADWALL UNDERCUT ELEVATION IN FEET

A-N - AUGER, NO SAMPLE

NA - NOT APPLICABLE
ID - INSIDE DIAMETER

52 - DENOTES GROUND WATER ELEVATION

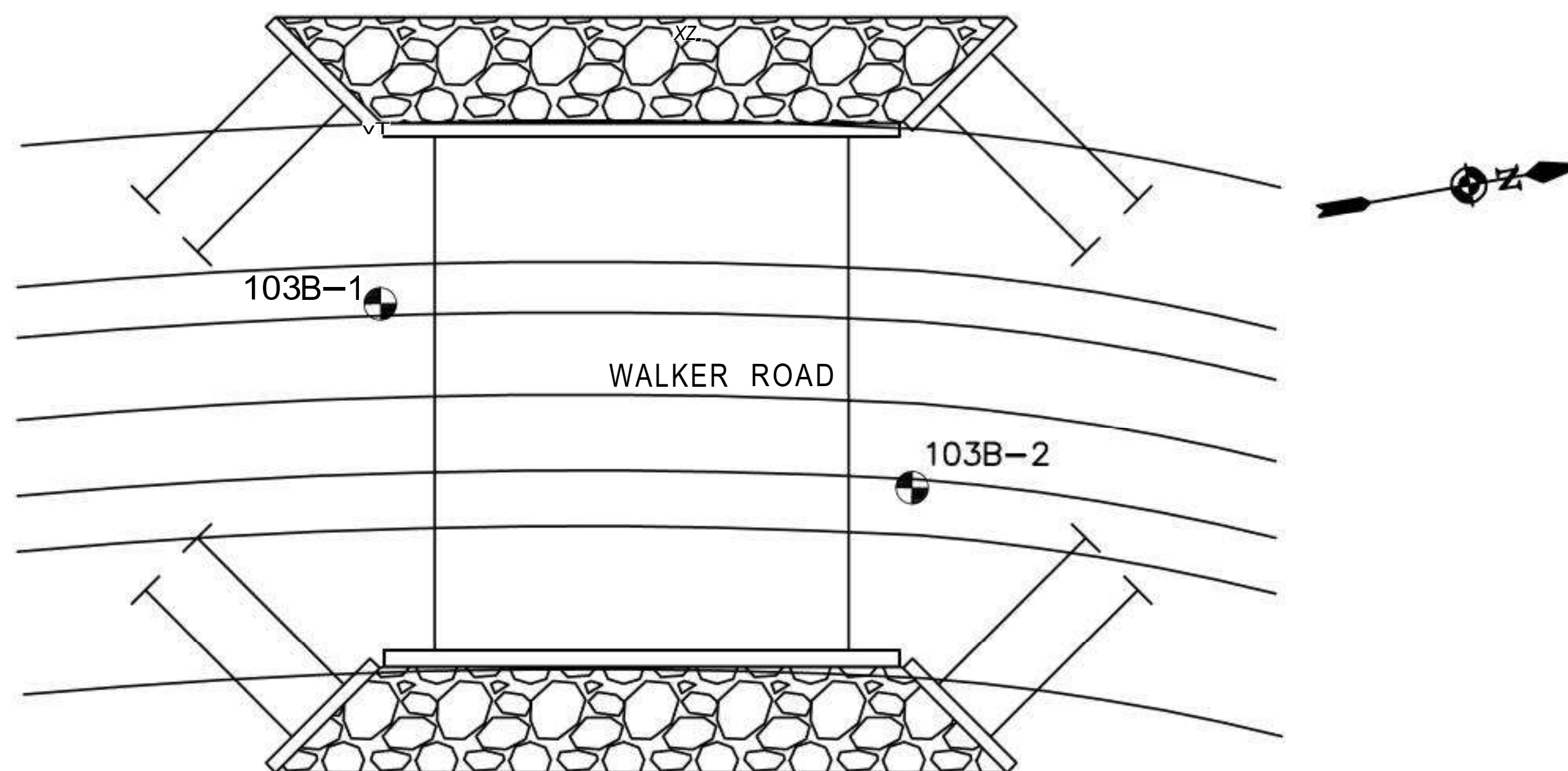
DRILLING COMPANY: PENNSYLVANIA DRILLING COMPANY
DRILLER: NORM HORMEL
EQUIPMENT: ACKER TRACK MOUNT RIG WITH AUTOMATIC HAMMER

CONSULTANT: ACKENHEIL ENGINEERS, INC.
AE PROJECT #: 23124

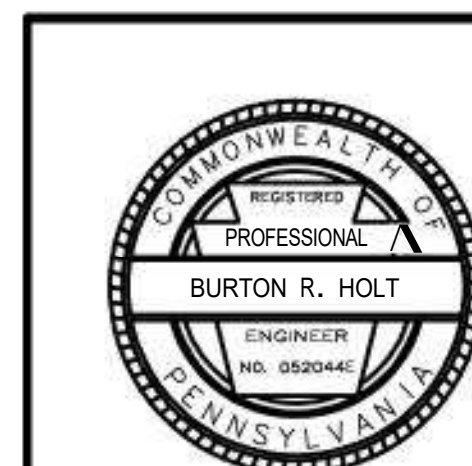
THE INFORMATION, AS SUBMITTED, ACCURATELY REPRESENTS THE CONDITIONS ENCOUNTERED BY THE TEST BORING PROGRAM, INCLUDING BORING LOGS, EARTH SAMPLES, ROCK CORES, CLASSIFICATION OF MATERIALS, & DEPTH OF BORINGS.

[Signature] 9/25/2024
GEOTECHNICAL ENGINEER DATE

THE INFORMATION PROVIDED IS REPRESENTATIVE OF SUBSURFACE CONDITIONS ONLY AT THE LOCATIONS AND DEPTHS WHERE SUCH INFORMATION WAS OBTAINED, AND THERE IS NO EXPRESSED OR IMPLIED AGREEMENT THAT UNIFORMITY OF MATERIALS EXISTS BETWEEN EXPLORED LOCATIONS. (SEE PUBLICATION 408/2016, SEC. 102.50.)



PLAN
N.T.S.



REVISIONS

MORRIS TOWNSHIP

GREENE COUNTY
COUNTY BRIDGE NO. 103
T-438 (WALKER ROAD) STA 30+98.97
OVER
PATTERSON CREEK
STRUCTURAL PLATE BOX CULVERT
STRUCTURE BORING LOGS

DR. BY: K. STAUB CH. BY: B. HOLT DATE: 8/9/2024

RECOMMENDED _____ SHEET: 4 OF 4

L-591

80 70 60 50 40 30 20 10 0 10 20 30 40 50 60 70 80

COUNTY OF GREENE
TOWNSHIP ROAD T438 (WALKER ROAD)

TOTAL SHEETS 6

CROSS SECTIONS

T438 WALKER ROAD ROAD
STATION 29+00.00 TO STATION 32+75.00

SHEETS 2 THRU 6

Application No. T-###
Route No. ###
Original Plotted By. ###
Original Checked By. ###
Template By. ###
Area By. ###
Finals Plotted By. ###
Finals Checked By. ###
Area Checked By. ###

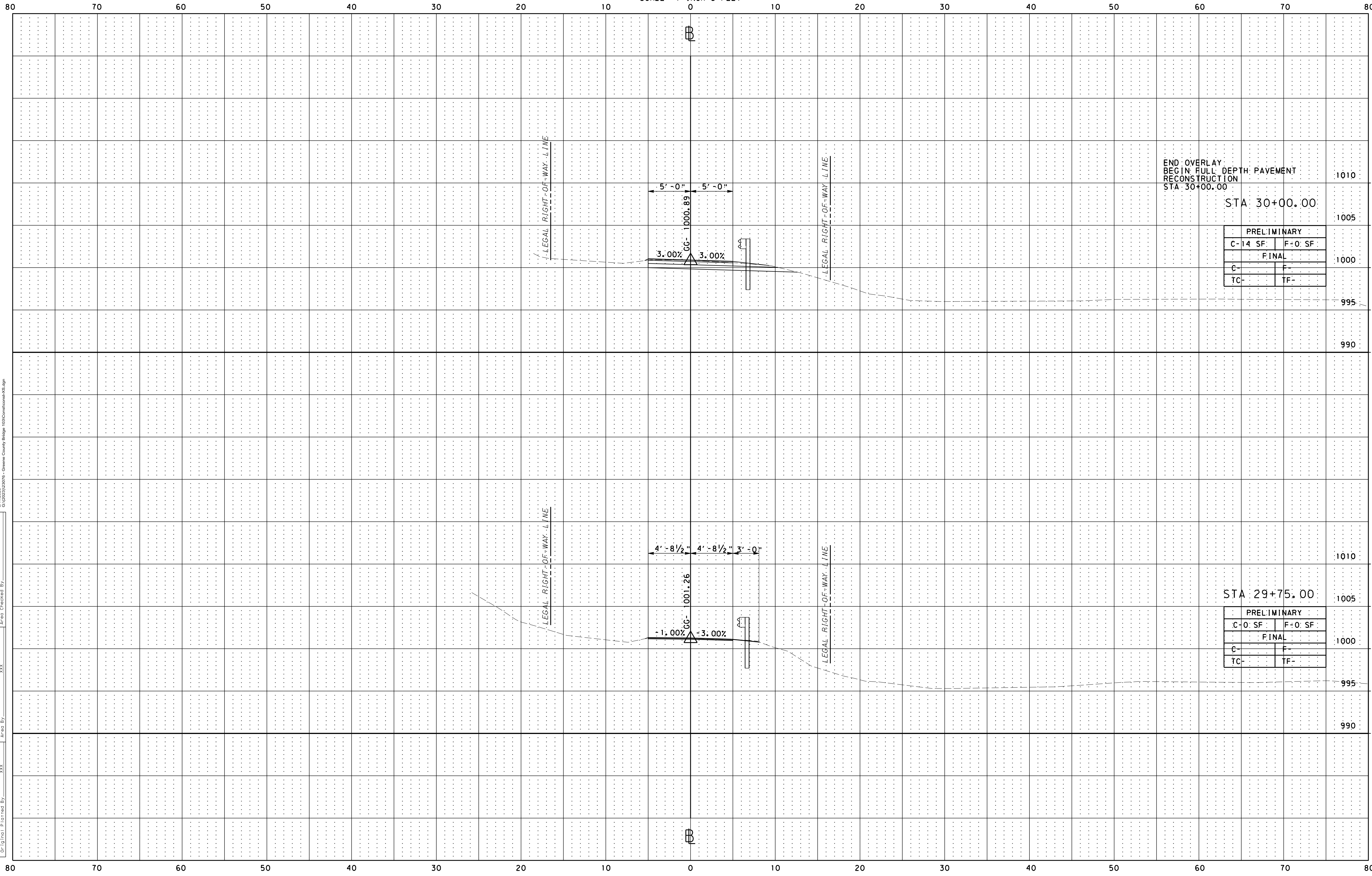
Ilseon
1/11/2024
2:11:00AM
G:\2023\23079 - Greene County Bridge 103\Condition\ecov.dgn



80 70 60 50 40 30 20 10 0 10 20 30 40 50 60 70 80

PENNSYLVANIA DEPARTMENT OF TRANSPORTATION
 CROSS SECTIONS
 SCALE: 1 INCH=5 FEET

DISTRICT	COUNTY	ROUTE	SECT	PRELIM BK #	FINAL BK #	SHEET #
12-0	GREENE	T438	---			3 OF 7



END OVERLAY
 BEGIN FULL DEPTH PAVEMENT
 RECONSTRUCTION
 STA 30+00.00

PRELIMINARY	
C-14 SF	F-0 SF
FINAL	
C-	F-
TC-	TF-

STA 29+75.00

PRELIMINARY	
C-0 SF	F-0 SF
FINAL	
C-	F-
TC-	TF-

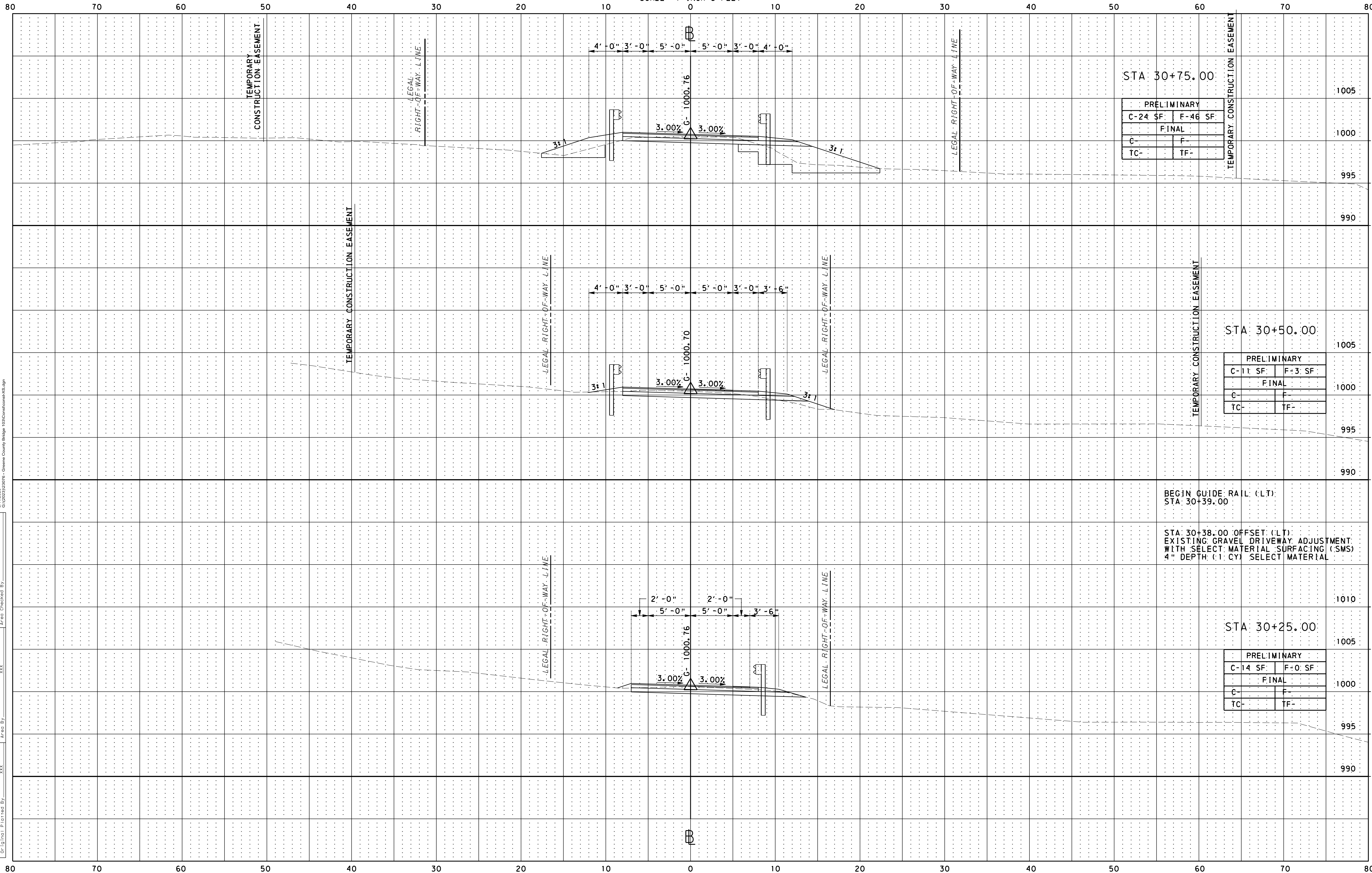
Application No. _____
 Route No. _____
 Original Plotted By _____
 Original Checked By _____
 Template By _____
 Area By _____

Plotted By _____
 Checked By _____
 Area Checked By _____

11/20/2011
 2:15:20 PM
 G:\2011\2011-03-29-103\Continental\AS.dgn

PENNSYLVANIA DEPARTMENT OF TRANSPORTATION
 CROSS SECTIONS
 SCALE: 1 INCH=5 FEET

DISTRICT	COUNTY	ROUTE	SECT	PRELIM BK #	FINAL BK #	SHEET #
12-0	GREENE	T438	---			4 OF 7

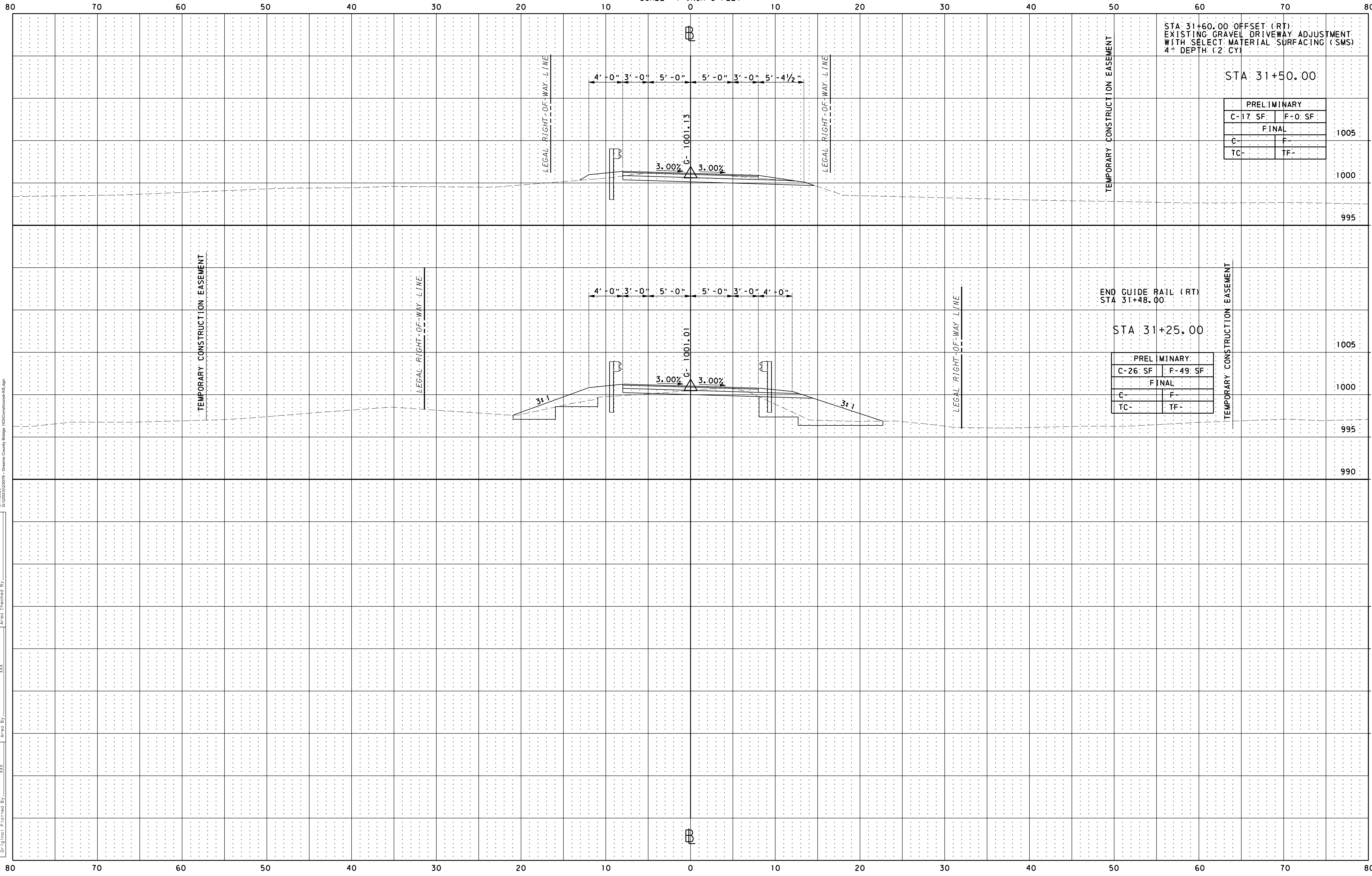


Application No. T-444
 Route No. XXX
 Original Plotted By XXX
 Original Checked By XXX
 Template By XXX
 Area Checked By XXX
 Plotted By XXX
 Checked By XXX
 Area Checked By XXX

Ilseon
 2/15/2020
 G:\2023\2023-01-01-Greene County Bldg 103\Continues-KS.dgn

PENNSYLVANIA DEPARTMENT OF TRANSPORTATION
 CROSS SECTIONS
 SCALE: 1 INCH=5 FEET

DISTRICT	COUNTY	ROUTE	SECT	PRELIM BK #	FINAL BK #	SHEET #
12-0	GREENE	T438	---			5 OF 7



STA 31+60.00 OFFSET (RT):
 EXISTING GRAVEL DRIVEWAY ADJUSTMENT
 WITH SELECT MATERIAL SURFACING (SMS)
 4" DEPTH (2 CY)

STA 31+50.00

PRELIMINARY	
C-17 SF	F-0 SF
FINAL	
C	F
TC	TF

1005

1000

995

END GUIDE RAIL (RT)
 STA 31+48.00

STA 31+25.00

PRELIMINARY	
C-26 SF	F-49 SF
FINAL	
C	F
TC	TF

1005

1000

995

990

Application No. _____
 Route No. T-444
 Original Plotted By _____
 Original Checked By _____
 Template By XXX
 Area Checked By XXX

Plotted By _____
 Checked By _____
 Area Checked By _____

80

70

60

50

40

30

20

10

0

10

20

30

40

50

60

70

80

80

70

60

50

40

30

20

10

0

10

20

30

40

50

60

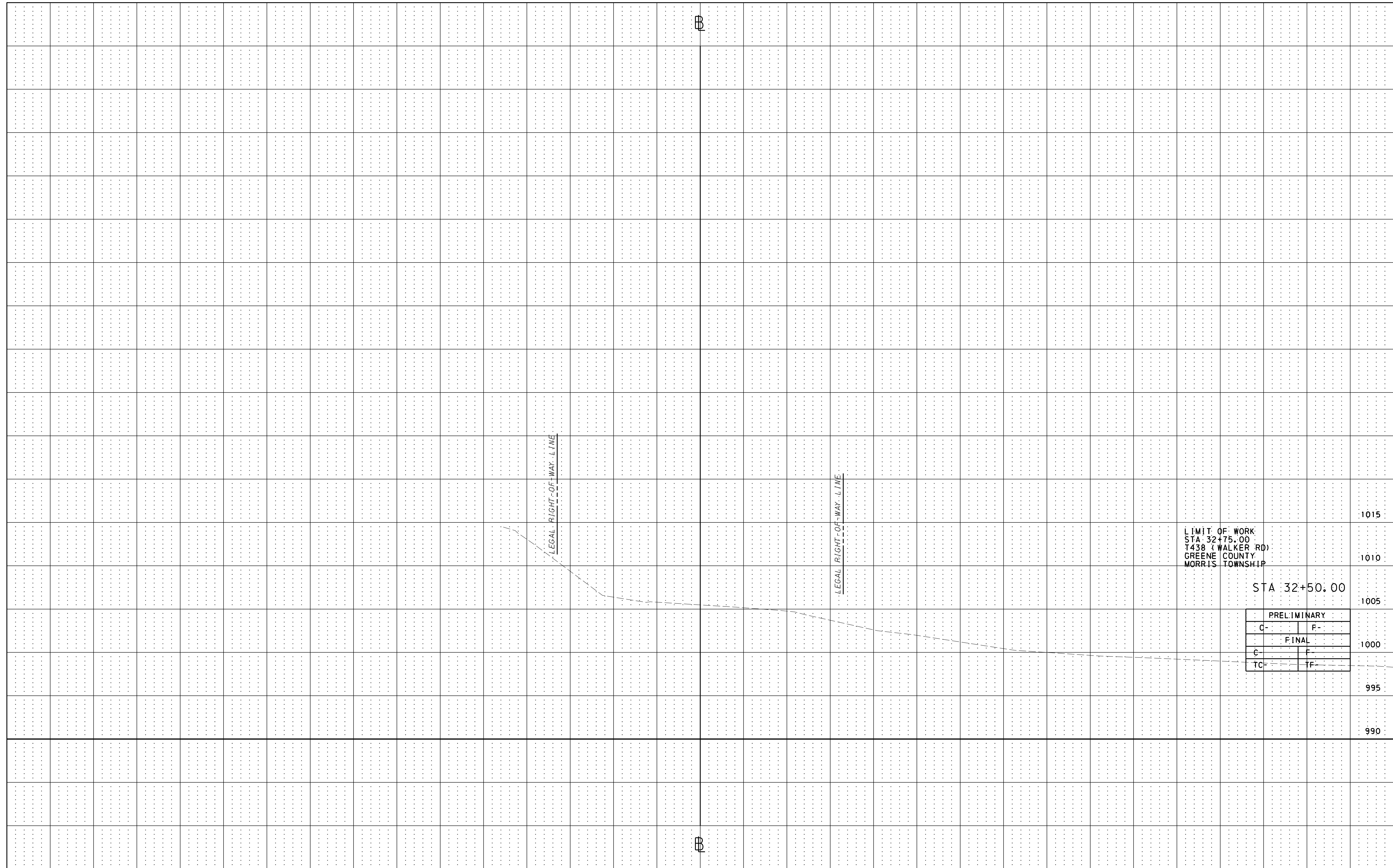
70

80

PENNSYLVANIA DEPARTMENT OF TRANSPORTATION
 CROSS SECTIONS
 SCALE: 1 INCH=5 FEET

DISTRICT	COUNTY	ROUTE	SECT	PRELIM BK #	FINAL BK #	SHEET #
12-0	GREENE	T438	---			7 OF 7

80 70 60 50 40 30 20 10 0 10 20 30 40 50 60 70 80



Application No. _____
 Route No. _____
 Original Plotted By _____
 Original Checked By _____
 Template By _____
 Area By _____
 Plotted By _____
 Checked By _____
 Area Checked By _____
 Janson
 2/15/2024
 G:\2023\2023 - Greene County Bridge 103\Continoma\AS.dgn

LIMIT OF WORK
 STA 32+75.00
 T438 (WALKER RD)
 GREENE COUNTY
 MORRIS TOWNSHIP

STA 32+50.00

PRELIMINARY	
C-	F-
FINAL	
C	F
TC	TF

1015
1010
1005
1000
995
990