

# Loyalsock Township School District Accessory Parking Lot - West

Loyalsock School District  
1605 Four Mile Drive  
Williamsport, PA 17701



1952 Waddle Road, Suite 201, State College, PA 16803  
Phone: 800-284-8590 [www.HawbakerEngineering.com](http://www.HawbakerEngineering.com)

JANUARY 27, 2025  
PROJECT NO. 24908

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## **INVITATION TO BID**

Invitations are extended to qualified Bidders by Loyalsock Township School District to bid Site Work for the Accessory Parking Lot – West Project at 1801 Loyalsock Drive, Williamsport, PA 17701. Bids must be on a lump-sum basis. Contract Documents consisting of Drawings and Project Manual may be examined, during normal office hours, at the office of the Owner/Project Sponsor, and may be purchased for \$100. Interested contractors should contact Mr. Dan Egly, Business Manager via email at [degly@ltsd.k12.pa.us](mailto:degly@ltsd.k12.pa.us); 570-326-6508 Ext 1004.

A certified bank check to Loyalsock Township School District or a satisfactory Bid Bond executed by the Bidder and acceptable sureties in an amount equal to ten percent (10%) of the Bid shall be submitted with the Bid. The bid proposal documents shall be enclosed in an envelope which shall be sealed and clearly labeled “Proposal for Loyalsock Township School District Accessory Parking Lot - West”. The Bidder shall be responsible for the placement of the firm’s name on the outside of the bid envelope. The successful Bidder will be required to furnish and pay for satisfactory Performance and Payment Bond.

Loyalsock Township School District reserves the right to accept or reject any or all proposals or to waive any informality in the bidding, and to withhold contract award for a period of ninety (90) days.

A Pre-Bid Meeting will be held Thursday, February 20 beginning 10:00 a.m. at the SITE, 1801 Loyalsock Drive, Williamsport, PA 17701. Proposals will be received via Main Office of the Loyalsock Township School District, 1605 Four Mile Drive, until 10:00 a.m., Thursday, March 6, 2025. Proposals will be publicly opened at 10:00 a.m. on the same day.

# INSTRUCTIONS TO BIDDERS

Project No. 24908

**Engineer:**

Hawbaker Engineering  
1952 Waddle Road, Suite 201  
State College, PA 16803  
Gary Pate  
814-470-6013  
[gap2@HawbakerEngineering.com](mailto:gap2@HawbakerEngineering.com)

**Owner:**

Lycoming Township School District  
1605 Four Mile Drive  
Williamsport, PA 17701  
Dan Egly  
570-326-6508 x1004  
[degly@ltsd.k12.pa.us](mailto:degly@ltsd.k12.pa.us)

To be considered, Bids must be made in accordance with these Instructions To Bidders.

1. DOCUMENTS:

- a. Bona fide Prime Bidders may obtain a complete set of Drawing(s) and Project Manual from the Owner upon payment in the amount stated in the INVITATION TO BID. This payment is a non-refundable fee.
- b. Each Prime Bidder will receive one (1) complete set of Contract Documents.

2. EXAMINATION:

- a. Bidders shall CAREFULLY EXAMINE the Documents and the Construction site to obtain first-hand knowledge of the existing conditions and limitations. Failure to visit the Site WILL NOT RELIEVE the Contractor of responsibility for same nor will extra payment request be considered for conditions which could have been determined by examining the Site, Drawing(s), and Project Manual.

3. QUESTIONS:

- a. Submit all questions about the Drawings and Project Manual to the Engineer in writing. Replies will be issued to all prime bidders of record as Addenda to the Drawings and Specifications, and will become part of the Contract. The Engineer, Construction Manager and Owner WILL NOT BE RESPONSIBLE for oral clarification. Questions received after 03/4/2025 will not be answered.

4. SUBSTITUTIONS:

- a. Bids shall be based on the products or manufactures specified. NO APPROVAL WILL BE GIVEN TO THE BIDDER PRIOR TO THE BID DATE for substitution of products or manufactures specified. The Construction Manager shall consider the use of substitutions, ONLY AFTER AWARD OF THE CONTRACT to use the successful bidder in accordance with Section 013300 – Submittal Procedures.

5. BASE OF BID:

- a. The Bidder must include any Alternate and Unit Cost items as may be shown on the BID FORM; failure to comply must be cause for rejection of Bid.
- b. Any omissions, alterations, additions or deductions not called for, conditional or uninvited alternative bids or irregularities of any kind to the BID FORM shall be cause for rejection of bid.
- c. No combination of Bids or assignments will be considered.



## INSTRUCTIONS TO BIDDERS

Project No. 24908

### 6. PREPARATION OF BIDS:

- a. Bids shall be made on unaltered BID FORMS.
- b. Bids shall be signed with name typed below signature. Where Bidder is a corporation, Bids must be signed with the legal name of the corporation followed by the name of the State of incorporation, and the legal signature of an officer authorized to bind the corporation to a contract.

### 7. BID SECURITY:

- a. Bid Security shall be made payable to the Owner in the amount of 10% of the Base Bid sum. Security shall be either certified check or BID BOND issued by Surety licensed to conduct business in the Commonwealth of Pennsylvania.
- b. The successful bidder's Security will be retained until he has signed the Contract and furnished the required PAYMENT and PERFORMANCE BOND. The Owner reserves the right to retain the Security of the next three (3) lowest bidders until they enter into a Contract, or until sixty (60) days after bid opening whichever is the shorter. All other Bid Securities will be returned as soon as practicable. If any Bidder refuses to enter into a Contract, the Owner will retain his/her Bid Security as liquidated damages but not as a penalty.
- c. The Bid Security is to be submitted and attached to the BID FORM at the time of submission of Bids.

### 8. PERFORMANCE BOND AND PAYMENT BOND:

- a. Furnish and pay for Bonds covering faithful performance of the Contract and payment of all obligations arising thereunder. Furnish Bonds in the of amount 100% of Bid sum utilizing the AIA Form A312, and with Surety Company acceptable to the Owner.
- b. The Contractor shall deliver said Bonds to the Owner not later than the date of execution of the contract. Failure to deliver said Bonds, as specified, shall be considered as having abandoned the Contract and the Bid Security will be retained as liquid damages.

### 9. SUBMITTAL:

- a. Submit Bids and Bid Security in an opaque, sealed envelope and addressed to:

**Loyalsock Township School District**

1605 Four Mile Drive, Williamsport, PA 17701

ATTN: Dan Egly, Business Manager

And shall be marked: **"Bid for LTSD Accessory Parking Lot - West"**

### 10. MODIFICATION AND WITHDRAWAL:

- a. Bids may not be modified after submittal.
- b. No Bid may be withdrawn or modified after the bid opening, except where the award of the Contract has been delayed for ninety (90) calendar days.

## **INSTRUCTIONS TO BIDDERS**

**Project No. 24908**

### **11. DISQUALIFICATION:**

- a. The Owner reserves the right to disqualify Bids before or after opening, upon evidence of collusion with intent to defraud or other illegal practices upon the part of the Bidder.

### **12. OPENING BIDS:**

- a. Bids will be publicly opened and results given as announced in the INVITATION TO BID.

### **13. AWARD:**

- a. The Contract will be awarded on the basis of low qualified bid, including full consideration of any Alternates and Unit Prices, as may appear on the BID FORM.

### **14. EXECUTION OF CONTRACT:**

- a. The Owner reserves the right to accept any Bid, and to reject any and all Bids, or to negotiate Contract Terms with the various Bidders when such is deemed by the Owner to be in his/her interest.
- b. Each Bidder shall be prepared to present evidence of his/her experience, qualifications and financial ability to carry out the terms of the Contract, and requested by Owner to submit all with the Bid
- c. Notice to Proceed will be issued within sixty (60) calendar days.
- d. The accepted Contractor shall assist and cooperate with the Owner in preparing the formal CONTRACT AGREEMENT, and within five (5) days following its presentation shall execute and return it to the Owner.

### **15. TIME OF COMPLETION:**

- a. The Contractor shall begin the Work on June 9, 2025 and carry the Work forward expeditiously to achieve final completion no later than August 15, 2025.

### **16. GOVERNING LAWS AND REGULATION:**

- a. The Bidders attention is directed to the fact that all applicable Federal and State laws, Municipal Ordinances, Local Codes and the rules and regulations of all Authorities having jurisdiction over installation of the Project shall apply to the Contract throughout, and they are deemed to be included in the Contract the same as though herein written in full.
- b. FEDERAL OCCUPATION SAFETY AND HEALTH ACT OF 1970 (OSHA): The contractor is required to promptly perform all reporting and recording as required by said Act.
- c. PENNSYLVANIA ACT 287:  
Place a PA One Call for construction before any earth disturbance is to occur. This should take place three (3) to ten (10) working days prior to the start of construction.  
PA One Call is 811 or 1-800-242-1776.
- d. PENNSYLVANIA PREVAILING WAGE ACT:  
The work under this Contract is subject to the provisions of the Pennsylvania Prevailing Wage Act, P.L. 987, Dated January 21, 2025.

**END OF INSTRUCTIONS**

**BID FORM**  
**Site Construction**

To: **Loyalsock Township School District**  
1605 Four Mile Drive  
Williamsport, PA 17701

For: **LTSD Accessory Parking Lot - West**  
1801 Loyalsock Drive  
Williamsport, PA 17701

We have received the Contract Documents consisting of E&S & PCSM Drawings. We have also received such Addenda as issued and listed below, and have included their provisions in the Bid. We have examined both the Drawings and the Site and submit the following Bid.

In submitting this Bid, we agree and certify:

1. To hold our bid open for a period of ninety (90) calendar days after date of the opening bids.
2. To accept the provisions of the Instructions to Bidders regarding disposition of Bid Security.
3. To enter into and execute a Contract, if awarded on the basis of this bid, and to furnish Guarantee Bonds.
4. To accomplish the Work in accordance with the Contract Documents.
5. To complete all Work within sixty eight (68) calendar days.
6. To pay, as liquid damages and not as a penalty, the sum of \$500.00 for each consecutive calendar day thereafter.
7. Bid Security in the form of Certified Check of Bid Form in the amount of 10% is submitted herewith in accordance with the requirements of the INSTRUCTIONS TO BIDDERS.

Indicate Bid Amount in the space provided below in both words and figures. Provide BID Breakdown on Sheet 4 of 4. In case of discrepancy, the higher amount will govern.

**BID FORM**  
**Site Construction**

We will do all BASE BID Site Work, including all incidental work, for the lump-sum of

\_\_\_\_\_ (\$ \_\_\_\_\_)  
(SPELL OUT) (NUMERICAL)

We will do all ALTERNATE Work, including all incidental work, for the lump-sum of

\_\_\_\_\_ (\$ \_\_\_\_\_)  
(SPELL OUT) (NUMERICAL)

We will do all TOTAL (BASE BID+ALTERNATE) Work, including all incidental work, for the lump-sum of

\_\_\_\_\_ (\$ \_\_\_\_\_)  
(SPELL OUT) (NUMERICAL)

**ADDENDA:**

We hereby acknowledge receipt of the following Addenda, if any.

NOS.	ADDENDUM	DATE
_____		_____
_____		_____
_____		_____
_____		_____
_____		_____
_____		_____

We have submitted herewith, Bid Security in the form of certified check or Bid Bond in the amount of 10% in accordance with the requirements of the Instructions to Bidders.

**BID FORM**  
**Site Construction**

**SIGNATURES:**

When Bidder is an individual:

Date: \_\_\_\_\_

Signed: \_\_\_\_\_

Bidder

WHEN BIDDER IS PARTERSHIP: \_\_\_\_\_

Legal Name of Partnership

Date: \_\_\_\_\_

Signed: \_\_\_\_\_

Partner

Address: \_\_\_\_\_

\_\_\_\_\_

Signed: \_\_\_\_\_

Partner

Address: \_\_\_\_\_

\_\_\_\_\_

Signed: \_\_\_\_\_

Partner

Address: \_\_\_\_\_

\_\_\_\_\_

WHEN BIDDER IS A CORPORATION: \_\_\_\_\_

Legal Name of Corporation

Incorporated under the laws of the state of \_\_\_\_\_

Date: \_\_\_\_\_

Signed: \_\_\_\_\_

Authorized Officer

CORPORATE SEAL

Bid Form for LTSD Accessory Parking Lot - West (Project #24908)

2025-01-27

Base Bid		Bid Amount
1	Mobilization, General Conditions, Supervision, Layout (NOTE: Owner to engage and pay a testing & inspection firm, contractor to schedule w/ testing firm and meet all requirements (e.g. compacting, concrete, paving)).	
2	E&S (e.g. RCE, erosion matting, filter sock, filter bag, temporary seeding, etc.)	
3	Grading (e.g. topsoil removal, cut/fill, existing gravel adjustment, haul away excess, etc.)	
4	Storm System (e.g. inlets, structures, piping, berms, infiltration trench, stone, end section, apron, etc.)	
5	Site Lighting (e.g. concrete base, pole, fixtures, modifications, electrical tie-in for power as directed by the Owner)	
6	Utility Cleanout Grade Adjustments & Concrete Curb	
7	Asphalt, include saw cutting, demo, stone, base course, wearing, sealing, etc.	
8	Misc. (e.g. signage, bumper blocks, ADA & line painting)	
9	Topsoil, Fine Grading, Seeding	
10	PCSM, Demobilization, & E&S Removal	
<b>Total Base Bid</b>		

Alternate Bid		Bid Amount
A1	Provide a DEDUCT if Owner purchases aggregate & asphalt. Owner will pay supplier directly based upon pre-agreed COSTAR pricing. Contractor to coordinate with Owner & supplier, and is responsible for scheduling, pickup/delivery, installation, etc. as if the contractor was purchasing	
<b>Total Alternate Bid</b>		

Total Bid (Base Bid - Alternate Bid)		Bid Amount
<b>Overall Total (Base Bid + Alternate Bid)</b>		

NOTES

- For the Alternate Bid, use the following estimated quantities:  
 941 tons - Sub-Base, 2A  
 733 tons - Base Course, 25mm  
 383 tons - Wearing Course, 9mm  
 44 tons - Rock Construction Entrance, AASHTO #1  
 1 ton - Rip Rap, R-3  
 600 tons - Infiltration Trench, Clean 6" Minus  
 2 If Alternate Bid is not accepted, Contractor is responsible for all aggregate & asphalt, independent of the estimated amounts listed above  
 3 Descriptions above are not inclusive of all the work, material, items, supervision, and/or tools & equipment required to complete the project

## BUREAU OF LABOR LAW COMPLIANCE PREVAILING WAGES PROJECT RATES

Project Name:	Loyalsock Township Middle/High School Accessory Parking Lot - West
General Description:	Convert existing lawn area to a parking lot w/ 64 stalls. E&S controls, grading, underground stormwater detention system, lighting, concrete curb, paving prep, paving, line striping, and signage.
Project Locality	Loyalsock Township
Awarding Agency:	Loyalsock Township School District
Contract Award Date:	3/28/2025
Serial Number:	25-00604
Project Classification:	Highway
Determination Date:	1/21/2025
Assigned Field Office:	Scranton
Field Office Phone Number:	(570)963-4577
Toll Free Phone Number:	(877)214-3962
Project County:	Lycoming County

# BUREAU OF LABOR LAW COMPLIANCE PREVAILING WAGES PROJECT RATES

Project: 25-00604 - Building	Effective Date	Expiration Date	Hourly Rate	Fringe Benefits	Total
Asbestos & Insulation Workers	7/1/2023		\$39.08	\$21.92	\$61.00
Asbestos & Insulation Workers	7/1/2024		\$39.08	\$24.92	\$64.00
Asbestos & Insulation Workers	7/1/2025		\$39.08	\$28.17	\$67.25
Boilermaker (Commercial, Institutional, and Minor Repair Work)	3/1/2024		\$36.71	\$19.13	\$55.84
Boilermakers	1/1/2023		\$51.27	\$35.30	\$86.57
Boilermakers	1/1/2024		\$52.10	\$35.72	\$87.82
Bricklayers, Stone Masons, Pointers, Caulkers, Cleaners	4/30/2023		\$38.43	\$18.53	\$56.96
Bricklayers, Stone Masons, Pointers, Caulkers, Cleaners	4/28/2024		\$38.78	\$20.03	\$58.81
Bricklayers, Stone Masons, Pointers, Caulkers, Cleaners	5/4/2025		\$40.63	\$20.03	\$60.66
Bricklayers, Stone Masons, Pointers, Caulkers, Cleaners	5/3/2026		\$42.48	\$20.03	\$62.51
Carpenters - Piledriver/Welder	1/1/2023		\$40.63	\$21.22	\$61.85
Carpenters - Piledriver/Welder	1/1/2024		\$42.13	\$21.97	\$64.10
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	6/1/2023		\$35.06	\$17.72	\$52.78
Carpenters, Drywall Hangers, Framers, Instrument Men, Lathers, Soft Floor Layers	6/1/2024		\$36.56	\$17.72	\$54.28
Cement Finishers & Plasterers	4/30/2023		\$28.23	\$22.27	\$50.50
Cement Finishers & Plasterers	4/28/2024		\$30.23	\$22.27	\$52.50
Cement Finishers & Plasterers	5/4/2025		\$32.23	\$22.27	\$54.50
Cement Finishers & Plasterers	5/3/2026		\$34.23	\$22.27	\$56.50
Cement Masons	6/1/2023		\$37.13	\$14.50	\$51.63
Cement Masons	6/1/2024		\$37.78	\$15.05	\$52.83
Drywall Finisher	5/1/2023		\$31.24	\$23.58	\$54.82
Drywall Finisher	5/1/2024		\$31.82	\$24.75	\$56.57
Electricians	6/1/2023		\$34.87	\$25.13	\$60.00
Electricians	6/1/2024		\$35.46	\$26.40	\$61.86
Electricians	6/1/2025		\$38.50	\$26.76	\$65.26
Electricians	6/1/2026		\$41.57	\$27.28	\$68.85
Electricians	6/1/2027		\$44.69	\$27.95	\$72.64
Elevator Constructor	1/1/2023		\$53.93	\$38.34	\$92.27
Elevator Constructor	1/1/2024		\$60.76	\$39.19	\$99.95
Elevator Constructor	1/1/2025		\$63.40	\$40.03	\$103.43
Glazier	5/1/2023		\$31.23	\$20.66	\$51.89
Glazier	5/1/2024		\$32.46	\$20.93	\$53.39
Iron Workers (Bridge, Structural Steel, Ornamental, Precast, Reinforcing)	7/1/2023		\$36.26	\$31.38	\$67.64
Iron Workers (Bridge, Structural Steel, Ornamental, Precast, Reinforcing)	7/1/2024		\$37.26	\$32.63	\$69.89
Laborers (Class 01 - See notes)	5/1/2023		\$23.08	\$18.03	\$41.11
Laborers (Class 02 - See notes)	5/1/2023		\$25.08	\$18.03	\$43.11



# BUREAU OF LABOR LAW COMPLIANCE PREVAILING WAGES PROJECT RATES

Project: 25-00604 - Building	Effective Date	Expiration Date	Hourly Rate	Fringe Benefits	Total
Laborers (Class 03 - See notes)	4/30/2023		\$26.98	\$18.22	\$45.20
Laborers (Class 04 - See notes)	4/30/2023		\$28.48	\$18.22	\$46.70
Laborers (Class 05 - See notes)	4/30/2023		\$28.98	\$18.22	\$47.20
Laborers (Class 06 - See notes)	5/1/2023		\$25.08	\$18.03	\$43.11
Marble Mason	5/1/2023		\$34.80	\$17.74	\$52.54
Marble Mason	5/1/2024		\$35.25	\$19.24	\$54.49
Marble Mason	5/1/2025		\$37.20	\$19.24	\$56.44
Marble Mason	5/1/2026		\$39.15	\$19.24	\$58.39
Millwright	6/1/2023		\$39.21	\$22.95	\$62.16
Millwright	6/1/2024		\$41.07	\$22.95	\$64.02
Millwright	6/1/2025		\$43.00	\$22.95	\$65.95
Millwright	6/1/2026		\$44.97	\$22.95	\$67.92
Operators (Building, Class 01 - See Notes)	5/1/2023		\$42.57	\$29.24	\$71.81
Operators (Building, Class 01 - See Notes)	5/1/2024		\$43.73	\$30.08	\$73.81
Operators (Building, Class 01 - See Notes)	5/1/2025		\$44.89	\$30.92	\$75.81
Operators (Building, Class 01 - See Notes)	5/1/2026		\$46.05	\$31.76	\$77.81
Operators (Building, Class 01A - See Notes)	5/1/2023		\$44.82	\$29.90	\$74.72
Operators (Building, Class 01A - See Notes)	5/1/2024		\$45.98	\$30.74	\$76.72
Operators (Building, Class 01A - See Notes)	5/1/2025		\$47.14	\$31.58	\$78.72
Operators (Building, Class 01A - See Notes)	5/1/2026		\$48.30	\$32.42	\$80.72
Operators (Building, Class 02 - See Notes)	5/1/2023		\$42.29	\$29.15	\$71.44
Operators (Building, Class 02 - See Notes)	5/1/2024		\$43.45	\$29.99	\$73.44
Operators (Building, Class 02 - See Notes)	5/1/2025		\$44.61	\$30.83	\$75.44
Operators (Building, Class 02 - See Notes)	5/1/2026		\$45.77	\$31.67	\$77.44
Operators (Building, Class 02A - See Notes)	5/1/2023		\$44.54	\$29.82	\$74.36
Operators (Building, Class 02A - See Notes)	5/1/2024		\$45.70	\$30.66	\$76.36
Operators (Building, Class 02A - See Notes)	5/1/2025		\$46.86	\$31.50	\$78.36
Operators (Building, Class 02A - See Notes)	5/1/2026		\$48.02	\$32.34	\$80.36
Operators (Building, Class 03 - See Notes)	5/1/2023		\$39.57	\$28.34	\$67.91
Operators (Building, Class 03 - See Notes)	5/1/2024		\$40.73	\$29.18	\$69.91
Operators (Building, Class 03 - See Notes)	5/1/2025		\$41.88	\$30.03	\$71.91
Operators (Building, Class 03 - See Notes)	5/1/2026		\$43.04	\$30.87	\$73.91
Operators (Building, Class 04 - See Notes)	5/1/2023		\$38.42	\$28.02	\$66.44
Operators (Building, Class 04 - See Notes)	5/1/2024		\$39.59	\$28.85	\$68.44
Operators (Building, Class 04 - See Notes)	5/1/2025		\$40.74	\$29.70	\$70.44
Operators (Building, Class 04 - See Notes)	5/1/2026		\$41.90	\$30.54	\$72.44
Operators (Building, Class 05 - See Notes)	5/1/2023		\$37.97	\$27.89	\$65.86
Operators (Building, Class 05 - See Notes)	5/1/2024		\$39.13	\$28.73	\$67.86
Operators (Building, Class 05 - See Notes)	5/1/2025		\$40.30	\$29.56	\$69.86
Operators (Building, Class 05 - See Notes)	5/1/2026		\$41.45	\$30.41	\$71.86
Operators (Building, Class 06 - See Notes)	5/1/2023		\$37.10	\$27.62	\$64.72
Operators (Building, Class 06 - See Notes)	5/1/2024		\$38.26	\$28.46	\$66.72
Operators (Building, Class 06 - See Notes)	5/1/2025		\$39.42	\$29.30	\$68.72
Operators (Building, Class 06 - See Notes)	5/1/2026		\$40.58	\$30.14	\$70.72

# BUREAU OF LABOR LAW COMPLIANCE PREVAILING WAGES PROJECT RATES

Project: 25-00604 - Building	Effective Date	Expiration Date	Hourly Rate	Fringe Benefits	Total
Operators (Building, Class 07A- See Notes)	5/1/2023		\$51.63	\$33.34	\$84.97
Operators (Building, Class 07A- See Notes)	5/1/2024		\$53.10	\$34.27	\$87.37
Operators (Building, Class 07A- See Notes)	5/1/2025		\$54.56	\$35.21	\$89.77
Operators (Building, Class 07A- See Notes)	5/1/2026		\$56.03	\$36.14	\$92.17
Operators (Building, Class 07B- See Notes)	5/1/2023		\$51.28	\$33.24	\$84.52
Operators (Building, Class 07B- See Notes)	5/1/2024		\$52.75	\$34.17	\$86.92
Operators (Building, Class 07B- See Notes)	5/1/2025		\$54.22	\$35.10	\$89.32
Operators (Building, Class 07B- See Notes)	5/1/2026		\$55.69	\$36.03	\$91.72
Painters Class 1 (see notes)	5/1/2023		\$29.98	\$23.28	\$53.26
Painters Class 1 (see notes)	5/1/2024		\$30.36	\$24.15	\$54.51
Painters - Line Stripping	12/1/2024		\$44.12	\$27.91	\$72.03
Painters Class 2 (see notes)	5/1/2023		\$33.58	\$23.58	\$57.16
Painters Class 3 (see notes)	5/1/2023		\$40.18	\$23.58	\$63.76
Pile Driver Divers (Building, Heavy, Highway)	1/1/2023		\$58.70	\$21.22	\$79.92
Pile Driver Divers (Building, Heavy, Highway)	1/1/2024		\$60.95	\$21.97	\$82.92
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	1/1/2023		\$39.13	\$21.22	\$60.35
Piledrivers	1/1/2024		\$40.63	\$21.97	\$62.60
Piledrivers	1/1/2025		\$41.88	\$22.72	\$64.60
Piledrivers	1/1/2026		\$43.13	\$23.47	\$66.60
Plasterers	6/1/2023		\$37.81	\$13.90	\$51.71
Plasterers	6/1/2024		\$38.46	\$14.45	\$52.91
Plumber/Pipefitter	5/1/2023		\$41.36	\$29.72	\$71.08
Roofers	5/1/2023		\$32.75	\$21.61	\$54.36
Roofers	5/1/2024		\$34.25	\$21.89	\$56.14
Sheet Metal Workers	5/1/2023		\$35.04	\$29.82	\$64.86
Sheet Metal Workers	5/1/2024		\$36.13	\$31.23	\$67.36
Sign Makers and Hangars	7/15/2022		\$30.54	\$24.35	\$54.89
Sign Makers and Hangars	7/15/2023		\$31.76	\$24.63	\$56.39
Sign Makers and Hangars	7/15/2024		\$32.32	\$25.82	\$58.14
Sprinklerfitters	4/1/2023		\$44.33	\$28.04	\$72.37
Sprinklerfitters	4/1/2024		\$46.45	\$28.62	\$75.07
Terrazzo Finisher	5/1/2023		\$35.79	\$19.25	\$55.04
Terrazzo Finisher	5/1/2024		\$35.66	\$20.76	\$56.42
Terrazzo Grinder	5/1/2023		\$36.54	\$19.25	\$55.79
Terrazzo Grinder	5/1/2024		\$36.42	\$20.76	\$57.18
Terrazzo Mechanics	5/1/2023		\$36.51	\$21.00	\$57.51
Terrazzo Mechanics	5/1/2024		\$36.44	\$22.51	\$58.95
Tile & Marble Finisher	5/1/2023		\$32.91	\$15.49	\$48.40
Tile & Marble Finisher	5/1/2024		\$33.36	\$16.99	\$50.35
Tile & Marble Finisher	5/1/2025		\$35.31	\$16.99	\$52.30
Tile & Marble Finisher	5/1/2026		\$37.26	\$16.99	\$54.25
Tile Setter	5/1/2023		\$34.80	\$17.74	\$52.54

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

<b>Project: 25-00604 - Building</b>	<b>Effective Date</b>	<b>Expiration Date</b>	<b>Hourly Rate</b>	<b>Fringe Benefits</b>	<b>Total</b>
Tile Setter	5/1/2024		\$35.25	\$19.24	\$54.49
Tile Setter	5/1/2025		\$37.20	\$19.24	\$56.44
Tile Setter	5/1/2026		\$39.15	\$19.24	\$58.39
Truckdriver class 1(see notes)	5/1/2021		\$37.72	\$0.00	\$37.72
Truckdriver class 2 (see notes)	5/1/2021		\$37.79	\$0.00	\$37.79
Window Film / Tint Installer	6/1/2019		\$24.52	\$12.08	\$36.60
Window Film / Tint Installer	6/1/2024		\$26.37	\$14.83	\$41.20

# BUREAU OF LABOR LAW COMPLIANCE PREVAILING WAGES PROJECT RATES

Project: 25-00604 - Heavy/Highway	Effective Date	Expiration Date	Hourly Rate	Fringe Benefits	Total
Carpenter	5/1/2023		\$35.32	\$19.09	\$54.41
Carpenter	5/1/2024		\$36.12	\$19.79	\$55.91
Carpenter	5/1/2025		\$36.87	\$20.49	\$57.36
Carpenter	5/1/2026		\$37.63	\$21.18	\$58.81
Carpenter Welder	5/1/2023		\$36.07	\$19.09	\$55.16
Carpenter Welder	5/1/2024		\$36.87	\$19.79	\$56.66
Carpenter Welder	5/1/2025		\$37.62	\$20.49	\$58.11
Carpenter Welder	5/1/2026		\$38.38	\$21.18	\$59.56
Carpenters - Piledriver/Welder	1/1/2023		\$36.07	\$19.09	\$55.16
Carpenters - Piledriver/Welder	1/1/2024		\$36.87	\$19.79	\$56.66
Carpenters - Piledriver/Welder	1/1/2025		\$37.62	\$20.49	\$58.11
Carpenters - Piledriver/Welder	1/1/2026		\$38.38	\$21.18	\$59.56
Cement Finishers	6/1/2016		\$32.43	\$11.35	\$43.78
Electric Lineman	8/29/2022		\$62.66	\$28.08	\$90.74
Electric Lineman	9/4/2023		\$64.68	\$29.01	\$93.69
Electric Lineman	1/1/2024		\$64.46	\$29.23	\$93.69
Electric Lineman	9/2/2024		\$66.56	\$30.17	\$96.73
Electric Lineman	1/1/2025		\$66.33	\$30.40	\$96.73
Iron Workers (Bridge, Structural Steel, Ornamental, Precast, Reinforcing)	7/1/2023		\$36.26	\$31.38	\$67.64
Iron Workers (Bridge, Structural Steel, Ornamental, Precast, Reinforcing)	7/1/2024		\$37.26	\$32.63	\$69.89
Laborers (Class 01 - See notes)	5/1/2023		\$24.81	\$18.99	\$43.80
Laborers (Class 01 - See notes)	5/1/2024		\$25.61	\$19.49	\$45.10
Laborers (Class 02 - See notes)	5/1/2023		\$31.43	\$18.99	\$50.42
Laborers (Class 02 - See notes)	5/1/2024		\$32.23	\$19.49	\$51.72
Laborers (Class 03 - See notes)	5/1/2023		\$28.42	\$18.99	\$47.41
Laborers (Class 03 - See notes)	5/1/2024		\$29.22	\$19.49	\$48.71
Laborers (Class 04 - See notes)	5/1/2023		\$28.77	\$18.99	\$47.76
Laborers (Class 04 - See notes)	5/1/2024		\$29.57	\$19.49	\$49.06
Laborers (Class 05 - See notes)	5/1/2023		\$29.44	\$18.99	\$48.43
Laborers (Class 05 - See notes)	5/1/2024		\$30.24	\$19.49	\$49.73
Laborers (Class 06 - See notes)	5/1/2023		\$28.86	\$18.99	\$47.85
Laborers (Class 06 - See notes)	5/1/2024		\$29.66	\$19.49	\$49.15
Laborers (Class 07 - See notes)	5/1/2023		\$29.15	\$18.99	\$48.14
Laborers (Class 07 - See notes)	5/1/2024		\$29.95	\$19.49	\$49.44
Laborers (Class 08 - See notes)	5/1/2023		\$29.63	\$18.99	\$48.62
Laborers (Class 08 - See notes)	5/1/2024		\$30.43	\$19.49	\$49.92
Millwright	6/1/2023		\$41.51	\$23.33	\$64.84
Millwright	6/1/2024		\$43.46	\$23.33	\$66.79
Millwright	6/1/2025		\$45.46	\$23.33	\$68.79
Millwright	6/1/2026		\$47.52	\$23.33	\$70.85
Operators (Heavy, Class 01 - See Notes)	5/1/2023		\$41.14	\$28.82	\$69.96
Operators (Heavy, Class 01 - See Notes)	5/1/2024		\$42.30	\$29.66	\$71.96
Operators (Heavy, Class 01 - See Notes)	5/1/2025		\$43.46	\$30.50	\$73.96

# BUREAU OF LABOR LAW COMPLIANCE

## PREVAILING WAGES PROJECT RATES

Project: 25-00604 - Heavy/Highway	Effective Date	Expiration Date	Hourly Rate	Fringe Benefits	Total
Operators (Heavy, Class 01 - See Notes)	5/1/2026		\$44.61	\$31.35	\$75.96
Operators (Heavy, Class 01A - See Notes)	5/1/2023		\$43.39	\$29.48	\$72.87
Operators (Heavy, Class 01A - See Notes)	5/1/2024		\$44.55	\$30.32	\$74.87
Operators (Heavy, Class 01A - See Notes)	5/1/2025		\$45.71	\$31.16	\$76.87
Operators (Heavy, Class 01A - See Notes)	5/1/2026		\$46.86	\$32.01	\$78.87
Operators (Heavy, Class 02 - See Notes)	5/1/2023		\$40.86	\$28.73	\$69.59
Operators (Heavy, Class 02 - See Notes)	5/1/2024		\$42.02	\$29.57	\$71.59
Operators (Heavy, Class 02 - See Notes)	5/1/2025		\$43.18	\$30.41	\$73.59
Operators (Heavy, Class 02 - See Notes)	5/1/2026		\$44.34	\$31.25	\$75.59
Operators (Heavy, Class 02A - See Notes)	5/1/2023		\$43.11	\$29.40	\$72.51
Operators (Heavy, Class 02A - See Notes)	5/1/2024		\$44.27	\$30.24	\$74.51
Operators (Heavy, Class 02A - See Notes)	5/1/2025		\$45.43	\$31.08	\$76.51
Operators (Heavy, Class 02A - See Notes)	5/1/2026		\$46.59	\$31.92	\$78.51
Operators (Heavy, Class 03 - See Notes)	5/1/2023		\$37.95	\$27.86	\$65.81
Operators (Heavy, Class 03 - See Notes)	5/1/2024		\$39.11	\$28.70	\$67.81
Operators (Heavy, Class 03 - See Notes)	5/1/2025		\$40.26	\$29.55	\$69.81
Operators (Heavy, Class 03 - See Notes)	5/1/2026		\$41.43	\$30.38	\$71.81
Operators (Heavy, Class 04 - See Notes)	5/1/2023		\$36.80	\$27.54	\$64.34
Operators (Heavy, Class 04 - See Notes)	5/1/2024		\$37.96	\$28.38	\$66.34
Operators (Heavy, Class 04 - See Notes)	5/1/2025		\$39.12	\$29.22	\$68.34
Operators (Heavy, Class 04 - See Notes)	5/1/2026		\$40.28	\$30.06	\$70.34
Operators (Heavy, Class 05 - See Notes)	5/1/2023		\$36.35	\$27.41	\$63.76
Operators (Heavy, Class 05 - See Notes)	5/1/2024		\$37.51	\$28.25	\$65.76
Operators (Heavy, Class 05 - See Notes)	5/1/2025		\$38.67	\$29.09	\$67.76
Operators (Heavy, Class 05 - See Notes)	5/1/2026		\$39.83	\$29.93	\$69.76
Operators (Heavy, Class 06 - See Notes)	5/1/2023		\$35.48	\$27.14	\$62.62
Operators (Heavy, Class 06 - See Notes)	5/1/2024		\$36.64	\$27.98	\$64.62
Operators (Heavy, Class 06 - See Notes)	5/1/2025		\$37.80	\$28.82	\$66.62
Operators (Heavy, Class 06 - See Notes)	5/1/2026		\$38.96	\$29.66	\$68.62
Operators (Heavy, Class 07A - See Notes)	5/1/2023		\$49.93	\$32.83	\$82.76
Operators (Heavy, Class 07A - See Notes)	5/1/2024		\$51.39	\$33.77	\$85.16
Operators (Heavy, Class 07A - See Notes)	5/1/2025		\$52.85	\$34.71	\$87.56
Operators (Heavy, Class 07A - See Notes)	5/1/2026		\$54.32	\$35.64	\$89.96
Operators (Heavy, Class 07B - See Notes)	5/1/2023		\$49.58	\$32.73	\$82.31
Operators (Heavy, Class 07B - See Notes)	5/1/2024		\$51.04	\$33.67	\$84.71
Operators (Heavy, Class 07B - See Notes)	5/1/2025		\$52.51	\$34.60	\$87.11
Operators (Heavy, Class 07B - See Notes)	5/1/2026		\$53.97	\$35.54	\$89.51
Operators (Highway, Class 01 - See Notes)	5/1/2023		\$40.25	\$28.55	\$68.80
Operators (Highway, Class 01 - See Notes)	5/1/2024		\$41.41	\$29.39	\$70.80
Operators (Highway, Class 01 - See Notes)	5/1/2025		\$42.56	\$30.24	\$72.80
Operators (Highway, Class 01 - See Notes)	5/1/2026		\$43.72	\$31.08	\$74.80
Operators (Highway, Class 01a - See Notes)	5/1/2023		\$42.50	\$29.23	\$71.73
Operators (Highway, Class 01a - See Notes)	5/1/2024		\$43.66	\$30.07	\$73.73
Operators (Highway, Class 01a - See Notes)	5/1/2025		\$44.81	\$30.92	\$75.73

# BUREAU OF LABOR LAW COMPLIANCE PREVAILING WAGES PROJECT RATES

Project: 25-00604 - Heavy/Highway	Effective Date	Expiration Date	Hourly Rate	Fringe Benefits	Total
Operators (Highway, Class 01a - See Notes)	5/1/2026		\$45.97	\$31.76	\$77.73
Operators (Highway, Class 02 - See Notes)	5/1/2023		\$39.08	\$28.20	\$67.28
Operators (Highway, Class 02 - See Notes)	5/1/2024		\$40.24	\$29.04	\$69.28
Operators (Highway, Class 02 - See Notes)	5/1/2025		\$41.39	\$29.89	\$71.28
Operators (Highway, Class 02 - See Notes)	5/1/2026		\$42.55	\$30.73	\$73.28
Operators (Highway, Class 03 - See Notes)	5/1/2023		\$38.39	\$27.99	\$66.38
Operators (Highway, Class 03 - See Notes)	5/1/2024		\$39.55	\$28.83	\$68.38
Operators (Highway, Class 03 - See Notes)	5/1/2025		\$40.70	\$29.68	\$70.38
Operators (Highway, Class 03 - See Notes)	5/1/2026		\$41.87	\$30.51	\$72.38
Operators (Highway, Class 04 - See Notes)	5/1/2023		\$37.94	\$27.86	\$65.80
Operators (Highway, Class 04 - See Notes)	5/1/2024		\$39.10	\$28.70	\$67.80
Operators (Highway, Class 04 - See Notes)	5/1/2025		\$40.26	\$29.54	\$69.80
Operators (Highway, Class 04 - See Notes)	5/1/2026		\$41.41	\$30.39	\$71.80
Operators (Highway, Class 05 - See Notes)	5/1/2023		\$37.42	\$27.72	\$65.14
Operators (Highway, Class 05 - See Notes)	5/1/2024		\$38.58	\$28.56	\$67.14
Operators (Highway, Class 05 - See Notes)	5/1/2025		\$39.73	\$29.41	\$69.14
Operators (Highway, Class 05 - See Notes)	5/1/2026		\$40.89	\$30.25	\$71.14
Operators (Highway, Class 06 - See Notes)	5/1/2023		\$40.48	\$28.62	\$69.10
Operators (Highway, Class 06 - See Notes)	5/1/2024		\$41.64	\$29.46	\$71.10
Operators (Highway, Class 06 - See Notes)	5/1/2025		\$42.80	\$30.30	\$73.10
Operators (Highway, Class 06 - See Notes)	5/1/2026		\$43.95	\$31.15	\$75.10
Operators (Highway, Class 06/A - See Notes)	5/1/2023		\$42.73	\$29.28	\$72.01
Operators (Highway, Class 06/A - See Notes)	5/1/2024		\$43.89	\$30.12	\$74.01
Operators (Highway, Class 06/A - See Notes)	5/1/2025		\$45.05	\$30.96	\$76.01
Operators (Highway, Class 06/A - See Notes)	5/1/2026		\$46.21	\$31.80	\$78.01
Operators (Highway, Class 07/A - See Notes)	5/1/2023		\$48.86	\$32.51	\$81.37
Operators (Highway, Class 07/A - See Notes)	5/1/2024		\$50.32	\$33.45	\$83.77
Operators (Highway, Class 07/A - See Notes)	5/1/2025		\$51.79	\$34.38	\$86.17
Operators (Highway, Class 07/A - See Notes)	5/1/2026		\$53.25	\$35.32	\$88.57
Operators (Highway, Class 07/B - See Notes)	5/1/2023		\$47.44	\$32.10	\$79.54
Operators (Highway, Class 07/B - See Notes)	5/1/2024		\$48.91	\$33.03	\$81.94
Operators (Highway, Class 07/B - See Notes)	5/1/2025		\$50.37	\$33.97	\$84.34
Operators (Highway, Class 07/B - See Notes)	5/1/2026		\$51.84	\$34.90	\$86.74
Painters - Line Stripping	12/1/2023		\$42.10	\$27.43	\$69.53
Painters - Line Stripping	12/1/2024		\$44.12	\$27.91	\$72.03
Painters Class 2 (see notes)	5/1/2020		\$31.53	\$20.71	\$52.24
Painters Class 2 (see notes)	5/1/2024		\$34.16	\$24.75	\$58.91
Painters Class 3 (see notes)	5/1/2020		\$37.63	\$20.71	\$58.34
Painters Class 3 (see notes)	5/1/2024		\$41.01	\$24.75	\$65.76
Pile Driver Divers (Building, Heavy, Highway)	1/1/2022		\$56.40	\$20.50	\$76.90
Piledrivers	5/1/2023		\$35.32	\$19.09	\$54.41
Piledrivers	5/1/2024		\$36.12	\$19.79	\$55.91
Piledrivers	5/1/2025		\$36.87	\$20.49	\$57.36
Piledrivers	5/1/2026		\$37.63	\$21.18	\$58.81

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

<b>Project: 25-00604 - Heavy/Highway</b>	<b>Effective Date</b>	<b>Expiration Date</b>	<b>Hourly Rate</b>	<b>Fringe Benefits</b>	<b>Total</b>
Steamfitters (Heavy and Highway - Gas Distribution)	5/1/2022		\$48.43	\$40.28	\$88.71
Truckdriver class 1(see notes)	5/1/2021		\$37.72	\$0.00	\$37.72
Truckdriver class 2 (see notes)	5/1/2021		\$37.79	\$0.00	\$37.79

## LIST OF CONTRACT DRAWINGS

<u>Title</u>	<u>Sheet Number</u>
E&S Cover Sheet	CS 1
Existing Conditions/Demo Plan	EX 1
Overall Site Plan	SP 1
Grading & Utility Plan	GP 1
Lighting Plan	LP 1
Construction Details	CD 1
E&S Control Plan	ES 1
E&S Notes & Details	ES 2
E&S Notes & Details	ES 3
PCSM Cover Sheet	CS 1
<i>Existing Conditions/Demo Plan</i>	<i>EX 1</i>
<i>Overall Site Plan</i>	<i>SP 1</i>
<i>Grading &amp; Utility Plan</i>	<i>GP 1</i>
<i>Construction Details</i>	<i>CD 1</i>
PCSM Plan	PC 1
PCSM Notes & Details	PC 2

For the "LTSD Accessory Parking Lot – West" project.

- Note that E&S Drawing CS 1 and PCSM Drawing CS 1 are similar, but different.
- Also note that Drawings EX 1, SP 1, GP 1, and CD 1 are duplicates of each other in the E&S Drawing and the PCSM Drawing sets.

The Owner may furnish, from time to time as the Work progresses, supplementary drawings as may be required for further illustration details of the Work.

**END OF DRAWINGS LIST**



## SECTION 011000 - SUMMARY

### PART 1 - GENERAL

#### 1.1 SUMMARY

- A. Section Includes:
  - 1. Work covered by Contract Documents.
  - 2. Type of Contract.
  - 3. Use of site and premises.
  - 4. Owner occupancy.
  - 5. Work sequence and restrictions.

#### 1.2 WORK COVERED BY CONTRACT DOCUMENTS

- A. Construction for the Loyalsock Township School District (LTSD) Accessory Parking Lot – West located adjacent (west of) to the Middle/High School at 1801 Loyalsock Drive, Williamsport, PA. Contractor shall coordinate its work with other Contracts that may occur elsewhere onsite.
- B. Work of single prime Contract from Notice to Proceed through Substantial Completion.
- C. Contractor is responsible to provide repair of conditions they caused.
- D. Contractor shall provide Work required for this project. Owner will not furnish or provide any related materials or work.

#### 1.3 CONTRACTS

- A. Perform the Work under single lump-sum/fixed price Contract with the Owner, which includes following Contract work.
  - 1. LTSD Accessory Parking Lot, Project No. 24908
    - a. Site Construction

#### 1.4 CONTRACTOR'S USE OF PREMISES

- A. Coordinate use of premises under direction of Owner.
- B. Assume full responsibility for protection and safe-keeping of materials and products which are stored on site.
- C. Move any stored materials or products, under Contractor's control, which interfere with operations of the Owner or separate Contractor(s).
- D. Contractor shall conduct their operations and execute the work as to ensure public health and safety.

## SECTION 011000 - SUMMARY

- E. Use of Site: Limit use of premises to work in areas indicated. Do not disturb portions of Project site beyond areas in which the Work is indicated.
  - 1. Owner Occupancy: Allow for Owner occupancy of Project site and use by public.
  - 2. Driveways and Entrances: Keep driveways and entrances serving premises clear and available to Owner and emergency vehicles at all times. Do not use these areas for parking or storage of materials.
    - a. Schedule deliveries to minimize use of driveways and entrances.
- F. Workers shall use hardhats with name tags, high-vis vests, safety glasses and work boots per OSHA.

### 1.5 OWNER OCCUPANCY

- A. Owner may occupy the premises during construction period. Cooperate with Owner's Representative in all construction operations to minimize conflict and to facilitate Owner's usage.
- B. Contractor shall coordinate and execute their work to ensure the least inconvenience to the Owner and uninterrupted usage of existing facility.

### 1.6 WORK SEQUENCE AND RESTRICTIONS

- A. Construct work to accommodate Owner's Requirements during construction period. Coordinate construction schedule and operations with Owner. Work shall primarily consist of the following elements:
  - 1. Mobilization, General Conditions, Supervision, Layout
  - 2. E&S
  - 3. Grading
  - 4. Stormwater
  - 5. Site Lighting
  - 6. Clean-Out Grade Adjustment and Concrete Curb
  - 7. Asphalt
  - 8. Misc. (e.g. signage, bumper blocks, line painting)
  - 9. Topsoil, Fine Grading, and Seeding
  - 10. Demobilization and E&S Removal
- B. Work Restrictions, General: Comply with restrictions on construction operations.
  - 1. Comply with limitations on use of public streets and with other requirements of authorities having jurisdiction.
  - 2. A "Notice to Proceed" will be issued within Thirty (30) days of receipt of bids
- C. On-Site Work Hours: From 7:00 am and 5:00 pm.

## **SECTION 011000 - SUMMARY**

### **1.7 SPECIFICATION FORMATS AND CONVENTIONS**

- A. Specifications: See contract drawings, details, and notes for material information, requirements, and specifications.
- B. Specification Content: Specifications use certain conventions for style of language and intended meaning of certain terms, words, and phrases when used in particular situations. These conventions are as follows:
  - 1. Abbreviated Language: Language used in Specifications and other Contract Documents is abbreviated. Words and meanings shall be interpreted as appropriate. Words implied, but not stated, shall be inferred as sense requires. Singular words shall be interpreted as plural, and plural words shall be interpreted as singular where applicable as context of Contract Documents indicates.
  - 2. Imperative mood and streamlined language are generally used in Specifications. Requirements expressed in imperative mood are to be performed by Contractor. Occasionally, indicative or subjunctive mood may be used in Section Text for clarity to describe responsibilities that must be fulfilled indirectly by Contractor or by others when so noted.

**END OF SECTION**

## SECTION 012900 - PAYMENT PROCEDURES

### PART 1 - GENERAL

#### 1.1 SUMMARY

- A. This Section specifies administrative and procedural requirements necessary to prepare and process Applications for Payment.

#### 1.2 DEFINITIONS

- A. Schedule of Values: A statement furnished by Contractor allocating portions of Contract Sum to various portions of the Work and used as the basis for reviewing Contractor's Applications for Payment.

#### 1.3 SCHEDULE OF VALUES

- A. Coordination: Coordinate preparation of the Schedule of Values with preparation of Contractor's Construction Schedule. A Cost-loaded CPM Schedule may serve to satisfy requirements for the Schedule of Values.
  - 1. Correlate line items in the Schedule of Values with other required administrative forms and schedules, including the following:
    - a. Application for Payment forms with Continuation Sheets.
    - b. Submittals Schedule.
    - c. Items required to be indicated as separate activities in Contractor's construction schedule.
  - 2. Submit the Schedule of Values to Construction Manager at earliest possible date but no later than 10 consecutive calendar days after the Notice to Proceed.
- B. Format and Content: Use the Project Manual table of contents, Bid Form, and/or activities noted on the construction drawings as a guide to establish line items for Schedule of Values.
  - 1. Identification: Include the following Project identification on Schedule of Values:
    - a. Project name and location.
    - b. Name of Owner.
    - c. Project number.
    - d. Contractor's name and address.
    - e. Date of submittal.
  - 2. Arrange schedule of values consistent with format of AIA Document G703.
  - 3. Arrange the schedule of values in tabular form with separate columns to indicate the following for each item listed:
    - a. Related Specification Section or Division.
    - b. Description of the Work.
    - c. Change Orders (numbers) that affect value.
    - d. Dollar value of the following, as a percentage of the Contract Sum to nearest one-hundredth percent, adjusted to total 100 percent.
  - 4. Provide a breakdown of Contract Sum in enough detail to facilitate continued evaluation of Applications for Payment and progress reports.

## SECTION 012900 - PAYMENT PROCEDURES

5. Round amounts to nearest whole dollar; total shall equal the Contract Sum.
6. Each item in the schedule of values and Applications for Payment shall be complete. Include total cost and proportionate share of general overhead and profit for each item.
  - a. Temporary facilities and other major cost items that are not direct cost of actual work-in-place may be shown either as separate line items in the schedule of values or distributed as general overhead expense, at Contractor's option.
7. Submit draft (pencil copy) 7 calendar days prior to due date for review by Construction Manager.
8. Schedule Updating: Update and resubmit the schedule of values before the next Applications for Payment when Change Orders or Construction Change Directives result in a change in the Contract Sum.

### 1.4 APPLICATIONS FOR PAYMENT

- A. Each Application for Payment following the initial Application for Payment shall be consistent with previous applications and payments.
  1. Initial Application for Payment, Application for Payment at time of Substantial Completion, and final Application for Payment involve additional requirements.
- B. Payment Application Times: Date for each progress payment is indicated in the Agreement between Owner and Contractor. Period of construction work covered by each Application for Payment is period indicated in the Agreement.
  1. Submit draft copy of Application for Payment seven days prior to due date Application for Payment Forms: Use AIA Document G702 and AIA Document G703.
- C. Application Preparation: Complete every entry on form. Notarize and execute by a person authorized to sign legal documents on behalf of Contractor. Construction Manager will return incomplete applications without action.
  1. Entries shall match data on the schedule of values and Contractor's construction schedule.
  2. Include amounts for work completed following previous Application for Payment, whether or not payment has been received. Include only amounts for work completed at time of Application for Payment.
  3. Include amounts of Change Orders and Construction Change Directives issued before last day of construction period covered by application.
- D. Transmittal: Submit signed and notarized original copies of each Application for Payment to Construction Manager by a method ensuring receipt within 24 hours. Include waivers of lien and similar attachments, if required.
  1. Provide a transmittal form listing attachments and recording appropriate information about application.
- E. Initial Application for Payment: Administrative actions and submittals that must precede or coincide with submittal of first Application for Payment include the following:
  1. Schedule of Values.
  2. Contractor's Construction Schedule.
  3. Schedule of unit prices.
  4. Certificates of insurance and insurance policies.
  5. Performance and payment bonds.
  6. Data needed to acquire Owner's insurance.

## **SECTION 012900 - PAYMENT PROCEDURES**

- F. Application for Payment at Substantial Completion: After issuing the Certificate of Substantial Completion, submit an Application for Payment showing 100 percent completion for portion of the Work claimed as substantially complete.
  - 1. Include documentation supporting claim that the Work is substantially complete and a statement showing an accounting of changes to the Contract Sum.
  
- G. Final Payment Application: Submit final Application for Payment with releases and supporting documentation not previously submitted and accepted, including, but not limited, to the following:
  - 1. Evidence of completion of Project closeout requirements.
  - 2. Insurance certificates for products and completed operations where required and proof that taxes, fees, and similar obligations were paid.
  - 3. Updated final statement, accounting for final changes to the Contract Sum.
  - 4. AIA Document G706, "Contractor's Affidavit of Payment of Debts and Claims."
  - 5. AIA Document G706A, "Contractor's Affidavit of Release of Liens"
  - 6. AIA Document G707, "Consent of Surety to Final Payment"
  - 7. Evidence that claims have been settled.
  - 8. Final, liquidated damages settlement statement.

**END OF SECTION**

## SECTION 013300 - SUBMITTAL PROCEDURES

### PART 1 - GENERAL

#### 1.1 SUMMARY

- A. Section includes requirements for the administrative and procedural requirements for submitting Shop Drawings, Product Data, Samples, and other submittals.

#### 1.2 SUBMITTAL ADMINISTRATIVE REQUIREMENTS

- A. General:
  - 1. Contractor shall submit electronic version of each individual submittal to Construction Manager in a printable PDF format.
- B. Coordination: Coordinate preparation and processing of submittals with performance of construction activities.
  - 1. Submit all items concurrently unless partial submittals for portions of the Work are indicated on approved submittal schedule.
  - 2. Submit action submittals and informational submittals under separate transmittals.
  - 3. Coordinate transmittals of different types of submittals for related parts of the Work so processing will not be delayed because of need to review submittals concurrently for coordination.
    - a. Construction Manager reserves the right to withhold action on a submittal requiring coordination with other submittals until related submittals are received.
- C. Processing Time: Allow time for submittal review, including time for resubmittals. Time for review shall commence on Construction Manager receipt of submittal. No extension of the Contract Time will be authorized because of failure to transmit submittals enough in advance of the Work to permit processing, including resubmittals.
  - 1. Initial Review: Allow 10 days for initial review of each submittal. Allow additional time if coordination with subsequent submittals is required.
  - 2. Resubmittal Review: Allow 10 days for review of each resubmittal.
  - 3. Sequential Review: Where sequential review of submittals by Construction Manager's consultants, Owner, or other parties is indicated, allow 15 days for initial review of each submittal.
- D. Identification: Submittal Cover Sheet shall be attached to each submittal. Include Contractor's stamp. Submittals without a cover sheet will not be reviewed and will be returned to the Contractor.
- E. Deviations: Specifically identify deviations from the Contract Documents on submittals.
- F. Additional Copies: Unless additional copies are required for final submittal, and unless Construction Manager observes noncompliance with provisions in Contract Documents, initial submittal may serve as final submittal.
- G. Transmittal: Package each submittal individually and appropriately for transmittal and handling. Transmit each submittal using a transmittal form. Construction Manager will return submittals, without review, received from sources other than Contractor.
  - 1. Transmittal Form: Provide locations on form for the following information:

## SECTION 013300 - SUBMITTAL PROCEDURES

- a. Project name.
  - b. Date.
  - c. Destination (To:).
  - d. Source (From:).
  - e. Names of subcontractor, manufacturer, and supplier.
  - f. Category and type of submittal.
  - g. Submittal purpose and description.
  - h. Specification Section number and title.
  - i. Drawing number and detail references, as appropriate.
  - j. Transmittal number, numbered consecutively.
  - k. Submittal and transmittal distribution record.
  - l. Remarks.
  - m. Signature of transmitter.
2. On an attached separate sheet, prepared on Contractor's letterhead, record relevant information, requests for data, revisions other than those requested by Construction Manager on previous submittals, and deviations from requirements in the Contract Documents, including minor variations and limitations. Include same label information as related submittal.
- H. Resubmittals: Make resubmittals in same form as initial submittal.
1. Note date and content of previous submittal.
  2. Note date and content of revision in label or title block and clearly indicate extent of revision.
  3. Resubmit until they are approved by Construction Manager.
- I. Use for Construction: Retain complete copies of submittals on Project site. Use only final action submittals that are marked with approval notation from Construction Manager.

## PART 2 - PRODUCTS

### 2.1 ACTION SUBMITTALS

- A. General: Prepare and submit Action Submittals required by individual Specification Sections and/or as noted on the construction drawings.
- B. Product Data: Collect information into a single submittal for each element of construction and type of product or equipment.
1. Mark each submittal to show which products and options are applicable.
  2. Include the following information, as applicable:
    - a. Manufacturer's written recommendations.
    - b. Manufacturer's product specifications.
    - c. Compliance with specified referenced standards.
    - d. Testing by recognized testing agency.
    - e. Application of testing agency labels and seals.
    - f. Notation of coordination requirements.
  3. Sheet Size: Except for templates, patterns, and similar full-size drawings, submit Shop Drawings on sheets at least 8.5" x 11".



## **SECTION 013300 - SUBMITTAL PROCEDURES**

4. Disposition: Maintain sets of approved Samples at Project site, available for quality-control comparisons throughout the course of construction activity. Sample sets may be used to determine final acceptance of construction associated with each set.

- C. Application for Payment: Comply with requirements specified in Division 01 Section "Payment Procedures."
- D. Schedule of Values: Comply with requirements specified in Division 01 Section "Payment Procedures."

### **2.2 INFORMATIONAL SUBMITTALS**

- A. General: Prepare and submit Informational Submittals required by individual Specification Sections and/or as noted on the construction drawings.
- B. Qualification Data: Prepare written information that demonstrates capabilities and experience of firm or person. Include lists of completed projects with project names and addresses, names and addresses of architects and Owners, and other information specified.
- C. Insurance Certificates and Bonds: Prepare written information indicating current status of insurance or bonding coverage. Include name of entity covered by insurance or bond, limits of coverage, amounts of deductibles, if any, and term of the coverage.
- D. Construction Photographs: Comply with requirements specified in Division 01.
- E. Material Safety Data Sheets (MSDS): Maintain sheets onsite.

## **PART 3 - EXECUTION**

### **3.1 CONTRACTOR'S REVIEW**

- A. Review each submittal and check for coordination with other Work of the Contract and for compliance with the Contract Documents.
- B. Approval Stamp: Stamp each submittal with a uniform, approval stamp. Include Project name and location, submittal number, Specification Section title and number, name of reviewer, date of Contractor's approval, and statement certifying that submittal has been reviewed, checked, and approved for compliance with the Contract Documents.

**END OF SECTION**

## SECTION 017700 - CLOSEOUT PROCEDURES

### PART 1 - GENERAL

#### 1.1 SUMMARY

- A. This Section includes administrative and procedural requirements for contract closeout, including, but not limited to, the following:
  - 1. Inspection procedures.
  - 2. Final inspection by the Owner.

#### 1.2 SUBSTANTIAL COMPLETION

- A. Preliminary Procedures: Before requesting inspection for determining date of Substantial Completion, complete the following: List items below that are incomplete.
  - 1. Prepare a list of items to be completed and corrected (punch list), the value of items on the list, and reasons why the Work is not complete.
  - 2. Advise Owner of pending insurance changeover requirements.
  - 3. Submit specific workmanship bonds, maintenance service agreements, final certifications, and similar documents.
  - 4. Obtain and submit releases permitting Owner unrestricted use of the Work and access to services and utilities. Include occupancy permits, operating certificates, and similar.
  - 5. Prepare and submit Project Record Documents, operation and maintenance manuals, Final Completion construction photographs, damage or settlement surveys, property surveys, and similar final record information.
  - 6. Deliver tools, spare parts, extra materials, and similar items to location designated by Owner. Label with manufacturer's name and model number where applicable.
  - 7. Make final changeover of permanent locks and deliver keys to Owner. Advise Owner's personnel of changeover in security provisions.
  - 8. Complete startup testing of systems.
- B. Inspection: Submit a written request for inspection for Substantial Completion. On receipt of request, Construction Manager will either proceed with inspection or notify Contractor of unfulfilled requirements. Construction Manager will prepare the Certificate of Substantial Completion after inspection or will notify Contractor of items, either on Contractor's list or additional items identified by Construction Manager, that must be completed or corrected before certificate will be issued.
  - 1. Reinspection: Request reinspection when the Work identified in previous inspections as incomplete is completed or corrected.
  - 2. Results of completed inspection will form the basis of requirements for Final Completion.

#### 1.3 FINAL COMPLETION

- A. Preliminary Procedures: Before requesting final inspection for determining date of Final Completion, complete the following:
  - 1. Submit a final Application for Payment.
  - 2. Submit certified copy of Construction Manager's Substantial Completion inspection list of items to be completed or corrected (punch list), endorsed and dated by Construction

## **SECTION 017700 - CLOSEOUT PROCEDURES**

Manager. The certified copy of the list shall state that each item has been completed or otherwise resolved for acceptance.

- B. Inspection: Submit a written request for final inspection for acceptance. On receipt of request, Engineer will either proceed with inspection or notify Contractor of unfulfilled requirements. Engineer will prepare a final Certificate for Payment after inspection or will notify Contractor of construction that must be completed or corrected before certificate will be issued.

### **1.4 LIST OF INCOMPLETE ITEMS (PUNCH LIST)**

- A. Preparation: Include name and identification of each space and area affected by construction operations for incomplete items and items needing correction including, if necessary, areas disturbed by Contractor that are outside the limits of construction.

### **1.5 STATEMENT OF ADJUSTMENT OF ACCOUNTS**

- A. Submit a final statement reflecting adjustments to Contract Sum indicating:
  - 1. Original Contract Sum.
  - 2. Previous Change Orders.
  - 3. Changes under unit prices.
  - 4. Deductions for uncorrected Work.
  - 5. Penalties and Bonuses.
  - 6. Deductions for re-inspection payments.
  - 7. Other adjustments to Contract Sum.
  - 8. Total Contract Sum as adjusted.
  - 9. Previous payments.
  - 10. Sum remaining due.
- B. Construction Manager will issue a Final Change Order, reflecting approved adjustments to the Contract Sum not previously made by Change Orders.

### **1.6 FINAL APPLICATION FOR PAYMENT**

- A. Submit Application for Final Payment in accordance with provisions of the General Conditions of the Contract.

## **SECTION 017700 - CLOSEOUT PROCEDURES**

### **PART 2 - PRODUCTS**

#### **2.1 MATERIALS**

- A. Cleaning Agents: Use cleaning materials and agents recommended by manufacturer or fabricator of the surface to be cleaned. Do not use cleaning agents that are potentially hazardous to health or property or that might damage finished surfaces.

### **PART 3 - EXECUTION**

#### **3.1 FINAL CLEANING**

- A. General: Provide final cleaning. Conduct cleaning and waste-removal operations to comply with local, state, and federal laws and ordinances.
  - 1. Complete the following cleaning operations as they relate to Work required by this Contract before requesting inspection for certification of Substantial Completion for entire Project or for a portion of Project:
    - a. Clean Project site, yard, and grounds, in areas disturbed by construction activities, including landscape development areas, of rubbish, waste material, litter, and other foreign substances.
    - b. Remove tools, construction equipment, machinery, and surplus material from Project site.
    - c. Leave Project clean and ready for occupancy.
- B. Comply with safety standards for cleaning. Do not burn waste materials. Do not bury debris or excess materials on Owner's property. Do not discharge volatile, harmful, or dangerous materials on the Project site. Remove waste materials from Project site and dispose of lawfully.

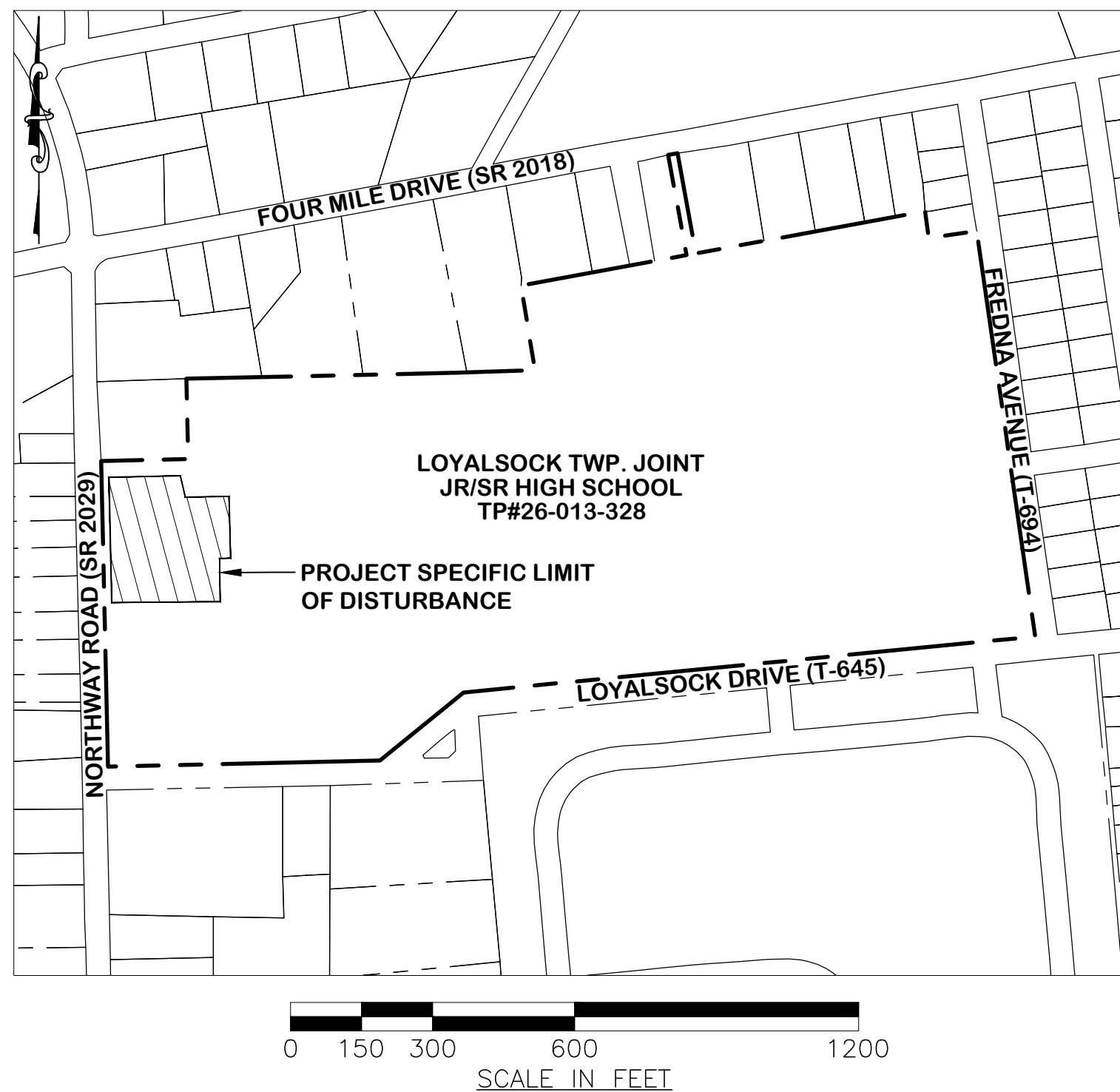
**END OF SECTION**



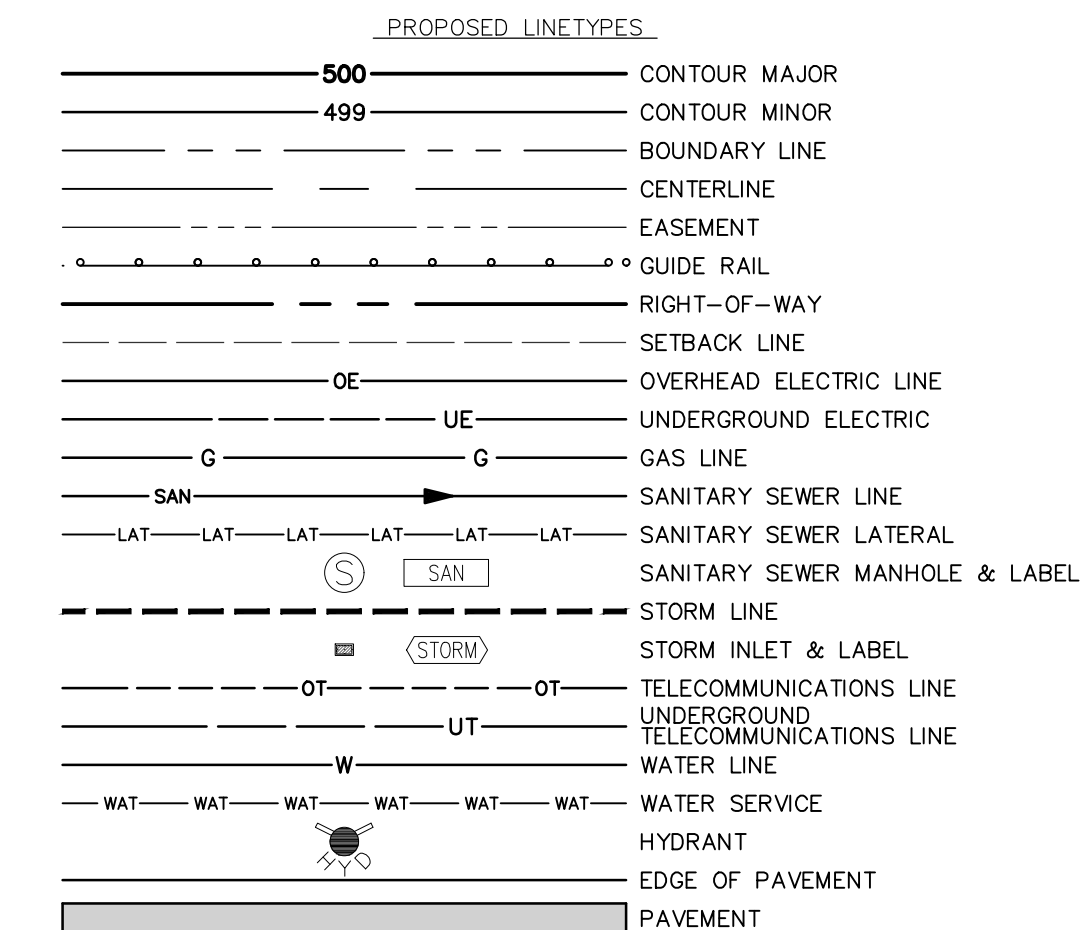
**ORIGINAL PERMIT (PAC410068) LIMIT OF DISTURBANCE ±1.75 AC**

**PROJECT LIMIT OF DISTURBANCE ±1.4 AC TOTAL (1.1 AC NEW)**

**AERIAL OVERLAY MAP 1" = 300'**



CS 1	E&S COVER SHEET
EX 1	EXISTING CONDITIONS/DEMO PLAN
SP 1	OVERALL SITE PLAN
GP 1	GRADING & UTILITY PLAN
LP 1	LIGHTING PLAN
CD 1	CONSTRUCTION DETAILS
ES 1	E&S CONTROL PLAN
ES 2-3	E&S NOTES & DETAILS

[illegible]

TRACT OWNER:	LOYALSOCK TWP. JOINT JR/SR HIGH SCHOOL 2101 LOYALSOCK DRIVE WILLIAMSPORT, PA 17701
INTERESTED PARTY:	OWNER
DEVELOPER:	DEED BOOK 0512-0058
SOURCE OF TITLE:	28-013-328
TAX PARCEL ID#:	R-1 - RESIDENTIAL 1 DISTRICT
ZONING:	PUBLIC SCHOOL (215-52.D (LISTED AS PERMITTED USE)
EXISTING USE:	NO CHANGE TO EXISTING (LISTED AS PERMITTED USE)
PROPOSED USE:	

## 2101 LOYALSOCK DRIVE WILLIAMSPORT, PA 17701

1. THE EXISTING SURVEY WAS PERFORMED AND PREPARED BY HAWKABER ENGINEERING, LLC.
2. TOPOGRAPHICAL DATA WAS PROVIDED BY HAWKABER ENGINEERING, LLC AND SUPPLEMENTED BY PENNSYLVANIA SPATIAL DATA ACCESS (PASDA) LIDAR.
3. THE PROJECT LOCATION IS EAST OF THE NORTH ZONE, VERTICAL DATUM IS NAVD83 UNLESS OTHERWISE SPECIFIED ON THE PLANS.
4. SUBJECT PROPERTY BOUNDARY SHOWN AS PRESCRIBED BY DEED AND FIELD OBSERVED MONUMENTATION. ADJOINING PROPERTY BOUNDARIES SHOWN PER PAST PARCELS RECORD.
5. ACCESS TO THE SITE WILL BE MADE VIA EXISTING PAVEMENT ROAD WHICH INTERSECTS WITH LOYALSOCK DRIVE (T-645).
6. SEWER SERVICE - NO PROPOSED CHANGES TO EXISTING.
7. WATER SERVICE - NO PROPOSED CHANGES TO EXISTING.
8. STORMWATER MANAGEMENT FACILITIES HAVE BEEN DESIGNED TO CREATE NO INCREASE IN THE RATE OF STORMWATER RUNOFF BY PROVIDING CONTROLLED RELEASE AND REDUCED FLOODING RISK TO THE ADJACENT PROPERTY. ADDITIONAL MITIGATION FOR SEVERE STORM EVENTS IS REQUIRED DUE TO MILLERS RUN IMPAIRMENT CRITERIA AND HAS BEEN ACHIEVED.
9. THE PROPERTY OWNER WILL BE RESPONSIBLE FOR THE MAINTENANCE AND ENSURE THE STORMWATER MANAGEMENT FACILITIES OPERATE AS DESIGNED.
10. THE PROPERTY IS NOT LOCATED WITHIN THE DELINEATED FLOODWAY / FLOODPLAIN (FEMA PANEL 420801CS3586, DATED 06/02/2016).
11. ACCORDING TO THE NATIONAL WETLAND INVENTORY, NO ENVIRONMENTAL SENSITIVE AREAS ARE LOCATED WITHIN THE PROJECT LIMIT OF DISTURBANCE.
12. RECORD (AS-BUILT) DRAWINGS WILL BE SUBMITTED BY THE APPLICANTS / DEVELOPERS PROFESSIONAL ENGINEER OR PROFESSIONAL LAND SURVEYOR FOR ALL STORMWATER FACILITIES PRIOR TO CONSTRUCTION. THE TOWNSHIP OF THE MEADOWS, LOYALSOCK TOWNSHIP RESERVES THE RIGHT TO AUTHORIZE THE MUNICIPAL ENGINEER TO REVIEW SAID RECORD DRAWING.
13. LOCATIONS OF UNDERGROUND UTILITIES SHOWN ARE BASED ON VISIBLE ABOVE GROUND UTILITIES AND AVAILABLE MAPPING PROVIDED TO THE PROJECT OFFICE. CONTRACTOR SHALL NOTIFY THE PA ONE CALL SYSTEM NOT LESS THAN THREE (3) DAYS PRIOR TO CONSTRUCTION. THE ONE CALL SYSTEM WILL NOTIFY THE PUBLIC UTILITIES IN THE AREA. PUBLIC UTILITIES WILL THEN COORDINATE DIRECTLY WITH THE CONTRACTOR.
14. THE PROJECT LOCATION IS WITHIN THE STORMWATER MANAGEMENT BMP(S) OF THE TOWNSHIP. PROVIDE RATE AND VOLUME/WATER QUALITY CONTROL FOR THE PROJECT AREA. IT SHALL BE THE RESPONSIBILITY OF THE SITE WORK CONTRACTOR TO COORDINATE THE CONSTRUCTION OF STORMWATER BMP(S) WITH THE DESIGN ENGINEER OR DESIGNER. THE SITE WORK CONTRACTOR SHALL PROVIDE NOTICE TO THE ENGINEER AND/OR DESIGNER 7 DAYS NOTICE PRIOR TO THE INSTALLATION OF STORMWATER BMP(S).
15. ALL SURFACE WATER FROM THE SITE DRAINS TO AN UNNAMED TRIBUTARY OF MILLERS RUN WHICH IS BOTH CLASSIFIED (DES. USE) AS WARM WATER FISHES (WWF) AND SUPPORTS A HIGH QUALITY FISH HABITAT. THE PROJECT WILL NOT BE A SOURCE OF LARGE FLOWS FROM MILLERS RUN IS RECEIVED DIRECTLY BY THE WEST BRANCH SUSQUEHANNA RIVER.
16. THE PROPOSED PROJECT RESULTS IN A DISTURBANCE AREA OF GREATER THAN 1 ACRE AND WILL REQUIRE AN NPDES PERMIT. AS THE PROPERTY ALREADY HAS AN ACTIVE NPDES PERMIT, THE PROJECT WILL NOT REQUIRE AN ADDITIONAL NPDES PERMIT.
17. THE PROJECT IS CONSIDERED AS AN IMPORT SITE. ANY IMPORTED MATERIAL SHALL BE CLEAN FILLS AS DEFINED BY THIS PLAN, SHEET ES 2.
18. IMPROVEMENTS TO BE MADE WITHIN THE PROJECT SHALL CONSTITUTE THE ENTIRE SCOPE OF WORK TO BE COMPLETED. NO OTHER IMPROVEMENTS ARE PROPOSED AND / OR APPROVED AS A PART OF THIS LAND DEVELOPMENT PLAN.

LOYALSOCK TWP. SCHOOL DISTRICT IS PROPOSING THE CONSTRUCTION OF AN ACCESSORY PARKING LOT ON PRIVATE LANDS (TAX PARCEL #26-013-328) IN LOYALSOCK TOWNSHIP, LYCOMING COUNTY. THE PROPERTY IS THE LOCATION OF THE JOINT JUNIOR/SENIOR HIGH SCHOOL AND IS LOCATED ALONG NORTHWAY ROAD (SR 2029) AND LOYALSOCK DRIVE (T-645). ACCESS TO THE SITE WILL BE VIA AN EXISTING PRIVATE ROAD THAT INTERSECTS WITH LOYALSOCK DRIVE.

IMPROVEMENTS WILL CONSIST OF GRADING OPERATIONS, PARKING LOT CONSTRUCTION, LIGHTING, LANDSCAPING AND THE INSTALLATION OF ASSOCIATED STORMWATER MANAGEMENT FACILITIES TO MITIGATE THE INCREASE IN STORMWATER RUNOFF AS THE RESULT OF INCREASED IMPERVIOUS COVER). NO CHANGES TO EXISTING WATER/SEWER SERVICES ARE REQUIRED OR PROPOSED.

THE SITE IS CURRENTLY ZONED R-1 (RESIDENTIAL 1 DISTRICT) WHICH LISTS PUBLIC SCHOOLS AS A PERMITTED USE (§215-52.D). NO CHANGE IN USE IS PROPOSED.

AN NPDES PERMIT WILL BE REQUIRED FOR THIS PROJECT AS DISTURBANCE WILL BE GREATER THAN 1 ACRE. A MAJOR PERMIT MODIFICATION WILL BE MADE TO THE EXISTING/ACTIVE NPDES PERMIT (PAC410068).

COMPANY:	UGI UTILITIES INC.
ADDRESS:	1 UGI DRIVE WILKES BARRE, PA 18711
CONTACT:	AMANDA NIXON
EMAIL:	anixon@ugicom.com
PHONE:	570-829-9887
COMPANY:	LOYALSOCK TOWNSHIP
ADDRESS:	2651 EAST THIRD ST WILLIAMSPORT, PA, 17701
CONTACT:	TONY STOPPER
EMAIL:	tony@loyalsocktownship.org
PHONE:	570-323-3615
COMPANY:	PPL ELECTRIC UTILITIES CORPORATION
ADDRESS:	437 BLUE CHURCH RD PAXINOS, PA. 17860
CONTACT:	DOUG HAUP
EMAIL:	dhaup1@pplweb.com
PHONE:	570-490-0568

COMPANY: ENERGY TRANSFER  
ADDRESS: 1300 MAIN ST  
HOUSTON, TX. 77002  
CONTACT: SAUL SHAW  
EMAIL: [saul.shaw@energytransfer.com](mailto:saul.shaw@energytransfer.com)  
PHONE: 713-989-9734

COMPANY: COMCAST  
ADDRESS: 336 PENN ST  
WILLIAMSPORT, PA. 17701  
CONTACT: TIM CRIWELL  
EMAIL: timothy\_criswell@cable.comcast.com  
PHONE: 570-279-9073

COMPANY: WILLIAMSPORT SANITARY AUTHORITY  
ADDRESS: 253 W FOURTH ST  
WILLIAMSPORT, PA. 17701  
CONTACT: NOAH CAPUTO  
EMAIL: ncaputo@wmwa-wsa.org  
PHONE: 570-323-3614EXT. 142

COMPANY: WILLIAMSPORT MUNI WTR AUTH  
ADDRESS: 253 W 4TH ST  
WILLIAMSPORT, PA. 17701  
CONTACT: IAN MOWATT  
EMAIL: imowatt@wmwa-wsa.org  
PHONE: 570-323-3614EXT. 143

PRELIM DESIGN  
SERIAL #20240662326

CALL BEFORE YOU DIG !!  
PENNSYLVANIA LAW REQUIRES  
(3) WORKING DAYS NOTICE FOR

Pennsylvania One Call System, Inc.  
1-800-242-1776



AS PER LOYALSOCK TOWNSHIP STORMWATER MANAGEMENT ORDINANCE:


- A. NO PERSON IN THE MUNICIPALITY SHALL ALLOW, OR CAUSE TO ALLOW, STORMWATER DISCHARGES INTO THE MUNICIPALITY'S SEPARATE STORM SEWER SYSTEM WHICH ARE NOT COMPOSED ENTIRELY OF STORMWATER EXCEPT:

1. AS PROVIDED IN SUBSECTION B BELOW; AND
2. DISCHARGES ALLOWED UNDER A STATE OR FEDERAL PERMIT.
- B. DISCHARGES WHICH MAY BE ALLOWED, BASED ON A FINDING BY THE MUNICIPALITY THAT THE DISCHARGES DO NOT SIGNIFICANTLY CONTRIBUTE TO POLLUTION TO SURFACE WATERS OF THE COMMONWEALTH, ARE:

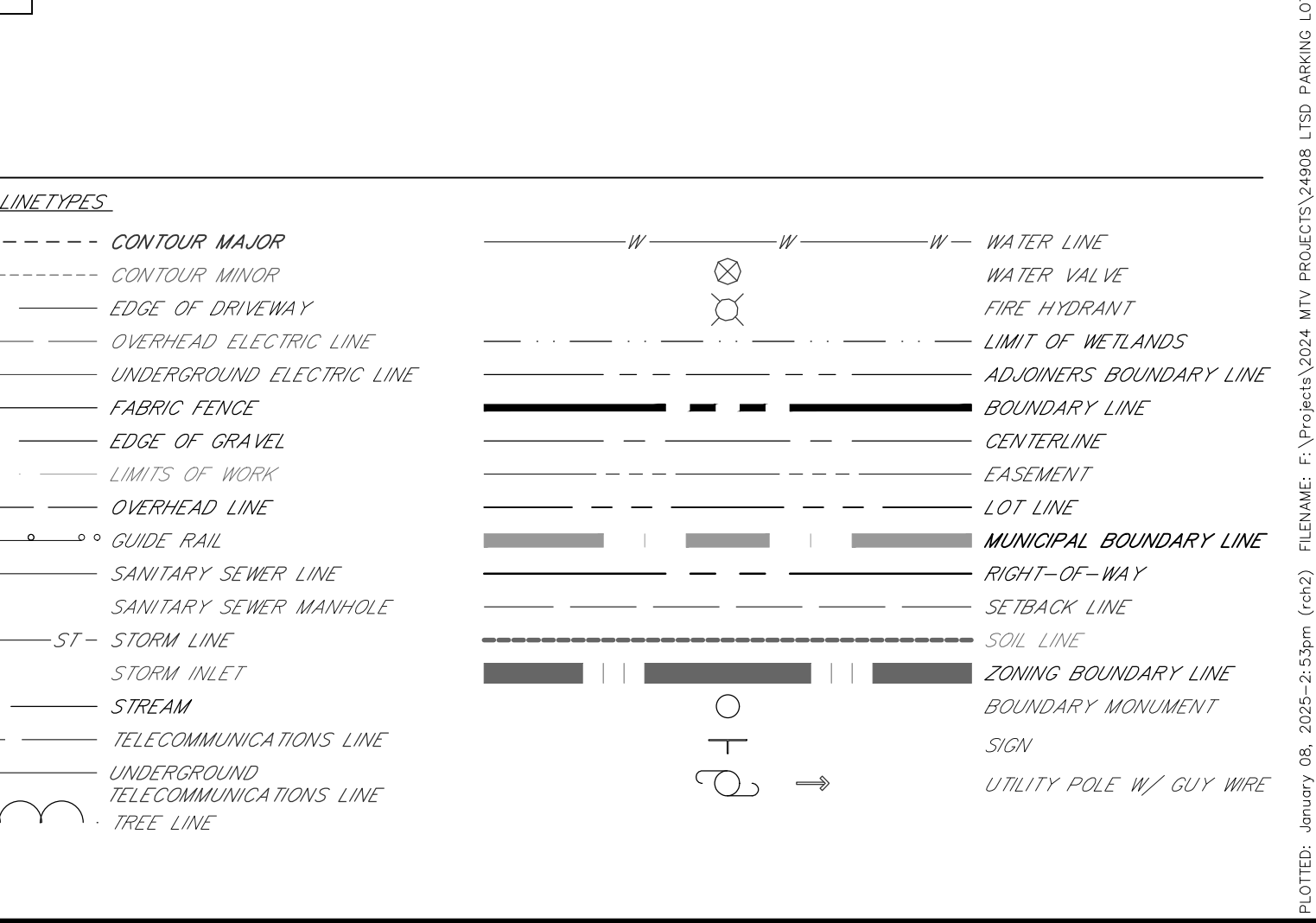
1. DISCHARGES FROM FIRE-FIGHTING ACTIVITIES.
2. POTABLE WATER SOURCES, INCLUDING DECHLORINATED WATER LINE AND FIRE HYDRANT FLUSHINGS.
3. IRRIGATION DRAINAGE.
4. ROUTINE EXTERNAL BUILDING WASHDOWN (WHICH DOES NOT USE DETERGENTS OR OTHER COMPOUNDS).
5. AIR CONDITIONING CONDENSATE.
6. WATER FROM INDIVIDUAL RESIDENTIAL CAR WASHING.
7. SPRINGS.
8. WATER FROM BASEMENT OR CRAWL SPACE PUMPS.
9. CONTAMINATED WATER FROM FOUNDATION OR FROM FOOTING DRAINS.
10. FLOWS FROM RIPARIAN HABITATS AND WETLANDS.
11. LAWN WATERING.
12. PINPOINT WASHWATERS WHERE SPILLS OR LEAKS OF TOXIC OR HAZARDOUS MATERIALS HAVE NOT OCCURRED (UNLESS ALL SPILL MATERIAL HAS BEEN REMOVED) AND WHERE DETERGENTS ARE NOT USED.
13. DECHLORINATED SWIMMING POOL DISCHARGES.
14. UNCONTAMINATED GROUNDWATER.

- C. IN THE EVENT THAT THE MUNICIPALITY DETERMINES THAT ANY OF THE DISCHARGES IDENTIFIED IN SUBSECTION B SIGNIFICANTLY CONTRIBUTE TO THE POLLUTION OF WATER OF THE COMMONWEALTH OR IS SO NOTIFIED BY DEPARTMENT OF ENVIRONMENTAL PROTECTION, THE MUNICIPALITY WILL NOTIFY THE RESPONSIBLE PERSON TO CEASE THE DISCHARGE.
- D. UPON NOTICE PROVIDED BY THE MUNICIPALITY UNDER SECTION C, THE DISCHARGER WILL HAVE, AT A REASONABLE TIME, AS DETERMINED BY THE MUNICIPALITY, TO CEASE THE DISCHARGE CONSISTENT WITH THE DEGREE OF POLLUTION CAUSED BY THE DISCHARGE.
- E. NOTHING IN THIS SECTION SHALL AFFECT A DISCHARGER'S RESPONSIBILITIES UNDER STATE LAW.
- F. THE FOLLOWING CONNECTIONS ARE PROHIBITED, EXCEPT AS PROVIDED IN SUBSECTION B ABOVE:

1. ANY DRAIN OR CONVEYANCE, WHETHER ON THE SURFACE OR SUBSURFACE, WHICH ALLOWS AN NON-STORMWATER DISCHARGE, INCLUDING SEWAGE, PROCESS WASTEWATER, AND WASH WATER, TO ENTER THE SEPARATE STORM DRAIN SYSTEM, AND ANY CONNECTIONS TO THE STORM DRAIN SYSTEM FROM INDODD DRAINS AND SINKS; AND
2. ANY DRAIN OR CONVEYANCE CONNECTED FROM A COMMERCIAL OR INDUSTRIAL LAND USE TO THE SEPARATE STORM DRAIN SYSTEM WHICH HAS NOT BEEN DOCUMENTED IN PLANS, MAPS, OR EQUIVALENT RECORDS, AND APPROVED BY THE MUNICIPALITY.

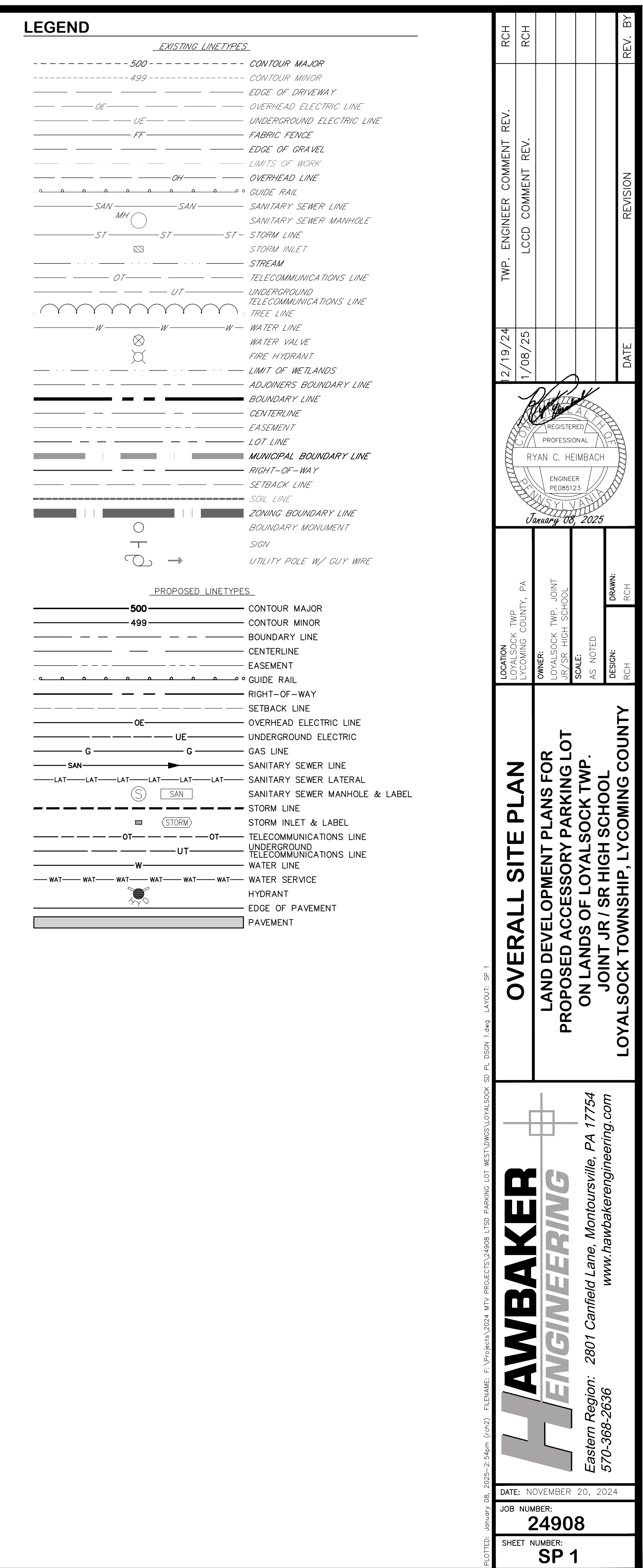
<b>HAWBAKER ENGINEERING</b>		DATE: NOVEMBER 20, 2024	
 <b>HAWBAKER ENGINEERING</b> Eastern Region: 2801 Canfield Lane, Montoursville, PA 17754 570-368-2636 <a href="http://www.hawbakengineering.com">www.hawbakengineering.com</a>		JOB NUMBER: <b>24908</b>	
SHEET NUMBER: <b>CS 1</b>			



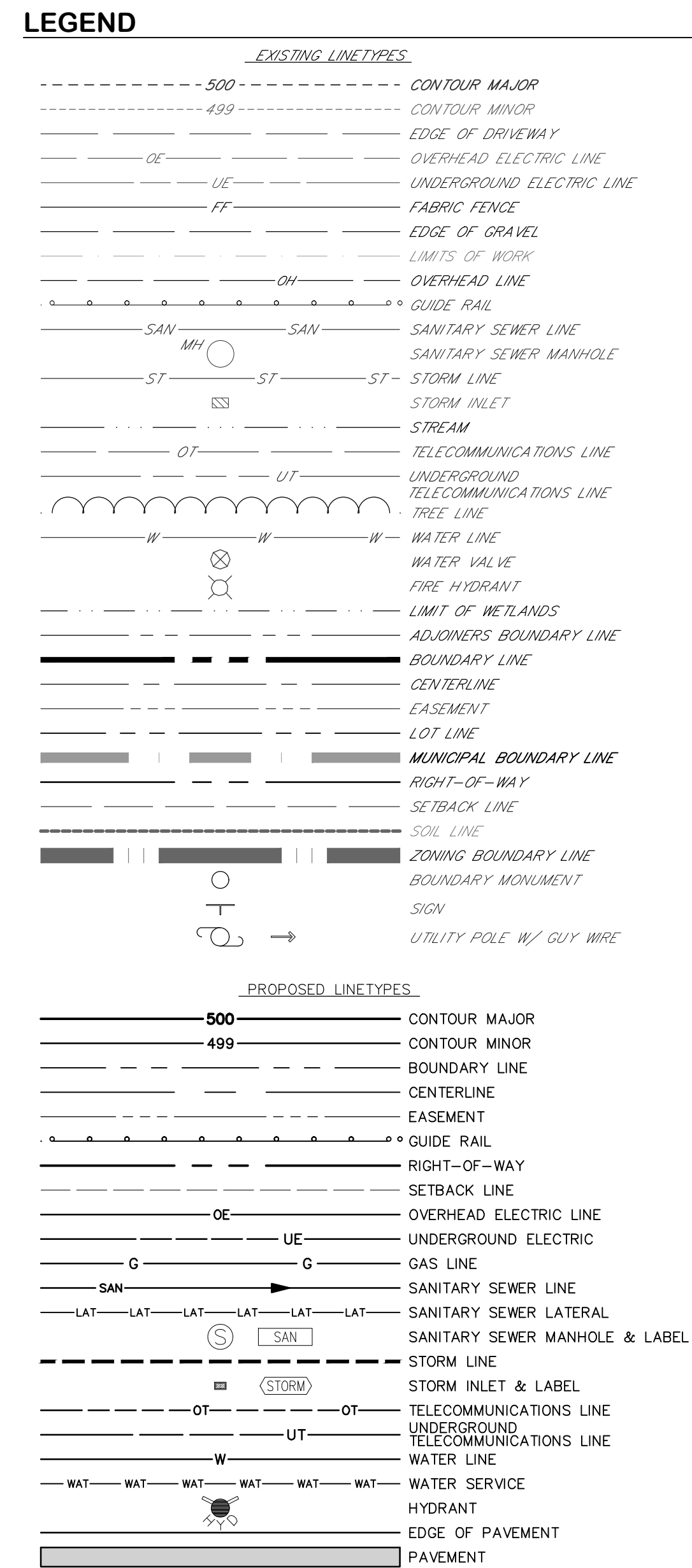


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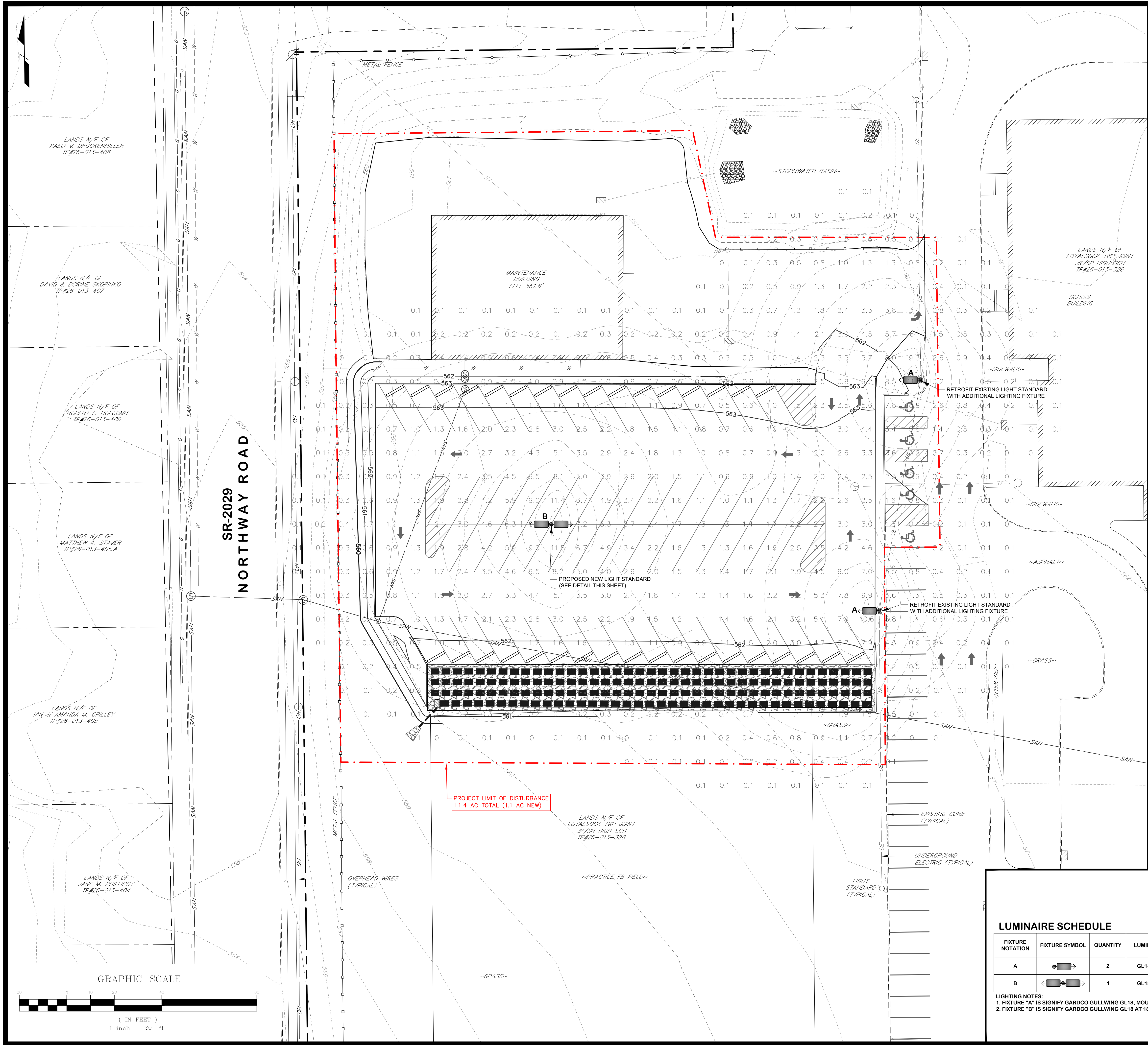




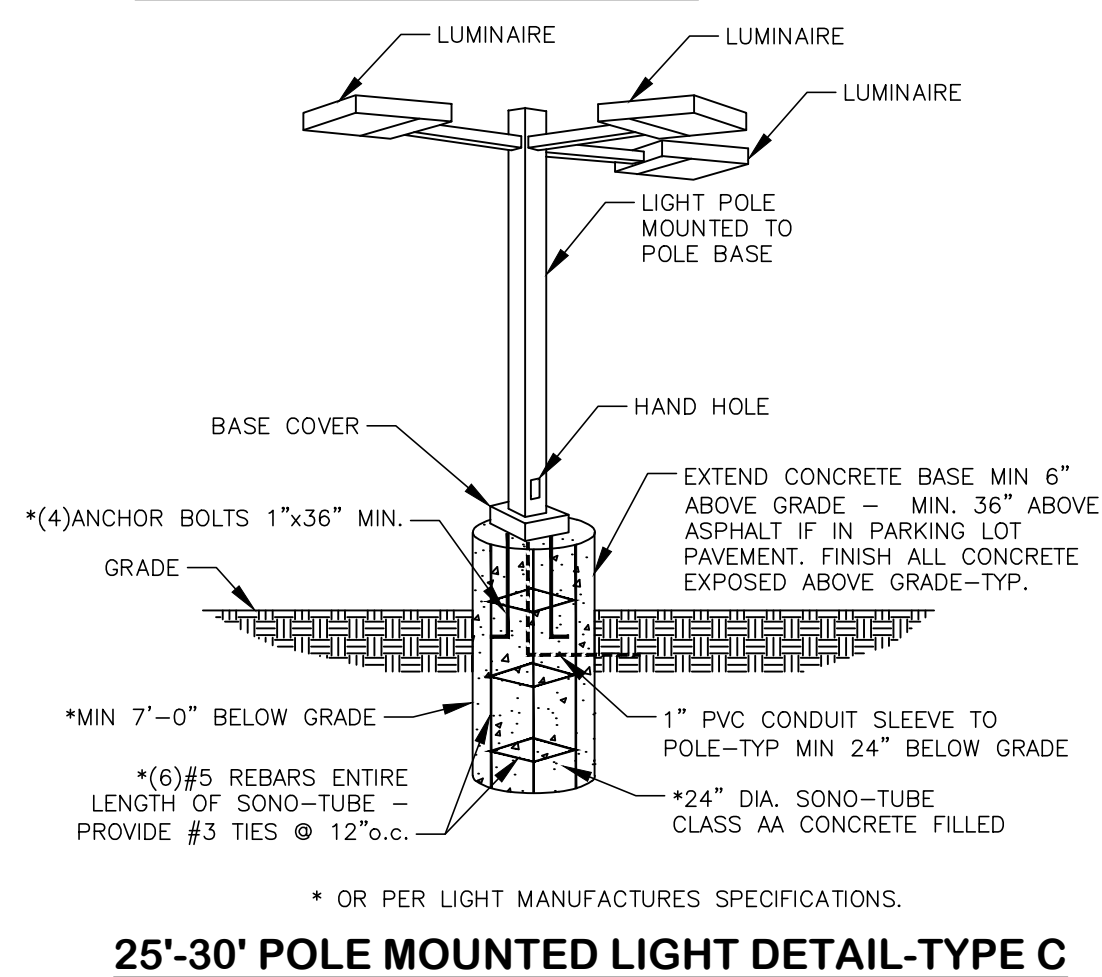
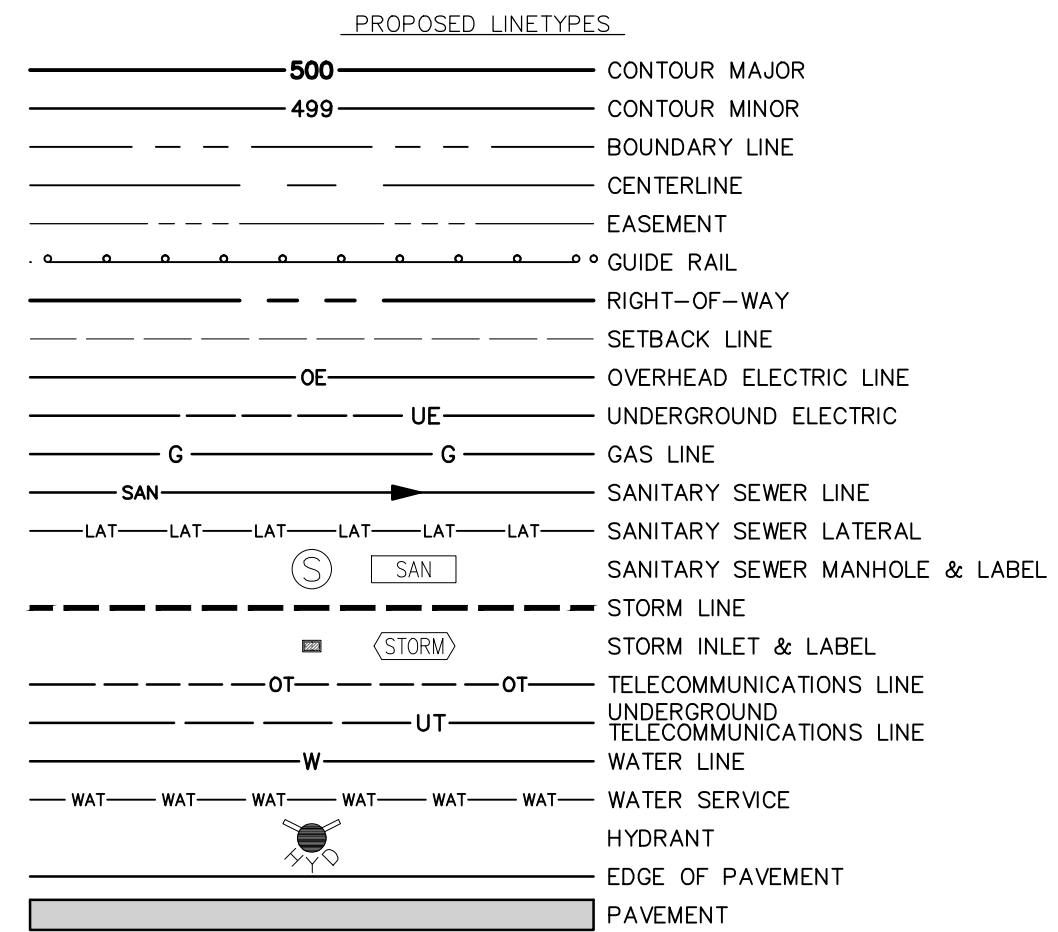
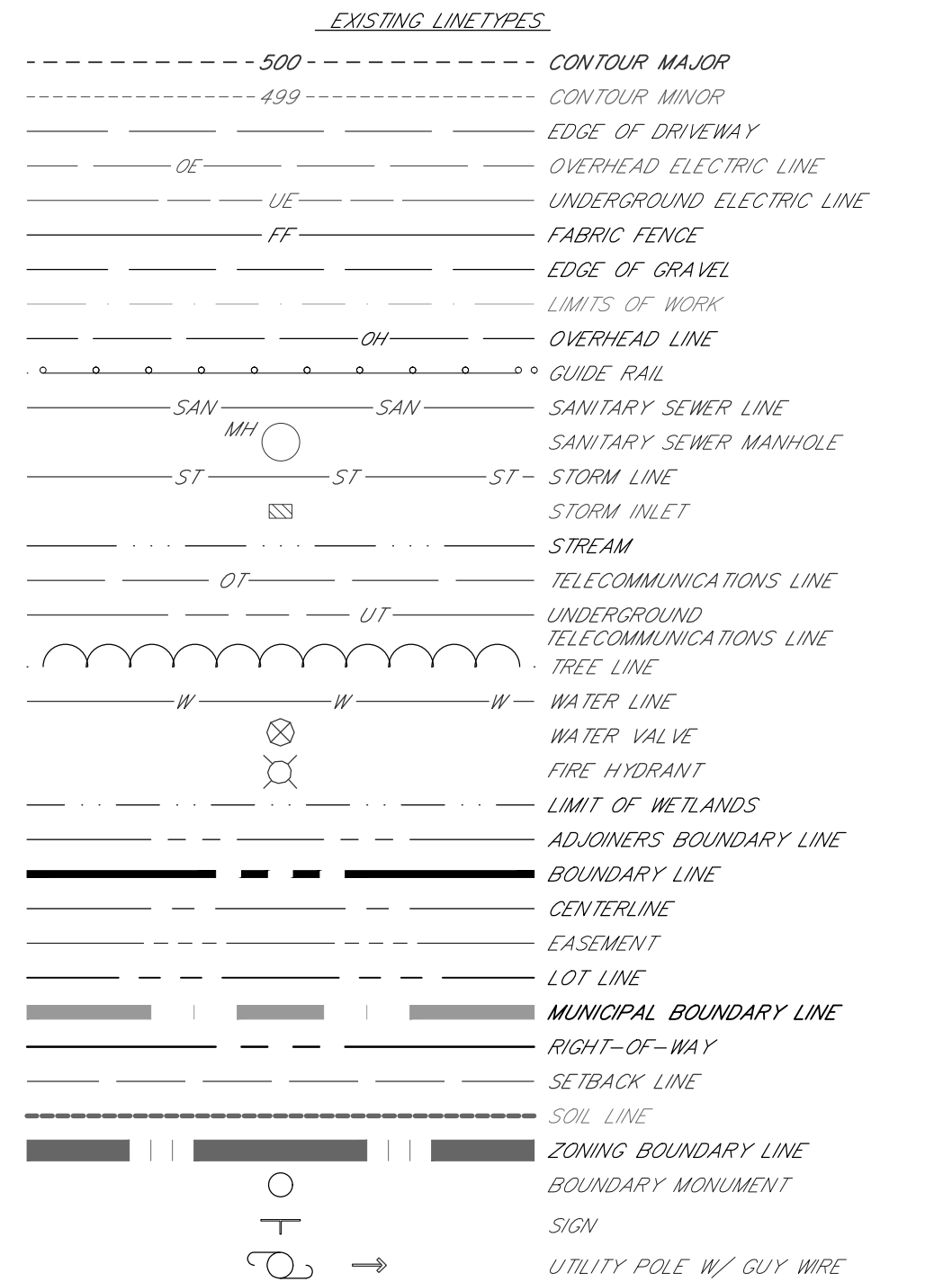
1. IN GENERAL, ALL EARTHWORK SHALL BE PERFORMED IN ACCORDANCE WITH TITLE 25 OF THE PA CODE, CHAPTER 102, AND PENNDOT PUBLICATION 408.
2. ALL GRADING SHALL BE ACCORDING TO THE EARTHWORK PRICE SCHEDULE OPERATIONS WHICH HAVE POTENTIAL TO CAUSE POLLUTION. THE MATERIALS SHALL BE MANAGED IN ACCORDANCE WITH ALL LOCAL, STATE AND FEDERAL LAWS AND REGULATIONS.
3. ALL SITE WORK SHALL BE COMPLETED WITHIN THE PERMITTED LIMITS OF DISTURBANCE.
4. ALL GRADING AND EARTHWORK SHALL BE COMPLETED IN A MANNER TO MINIMIZE THE LIMITED DURATION OF DISTURBANCE AREAS. WHERE THE CESSATION OF EARTHWORK WILL EXCEED 4 DAYS SHALL BE TEMPORARILY STABILIZED. PERMANENT STABILIZATION MEASURES SHALL BE INSTALLED WITHIN 24 HOURS OF ACHIEVING FINAL GRADING.
5. MEG = MATCH EXISTING GRADE
6. REFER TO PLAN SHEET PC 2 & CD 1 FOR SUPPLEMENTAL INFORMATION AND DETAILS.
7. REFER TO EROSION AND SEDIMENTATION CONTROL PLANS, SHEET ES 2 FOR CONSTRUCTION SEQUENCE
8. THE CONTRACTOR SHALL COORDINATE ALL UTILITY CONNECTIONS WITH RESPECTIVE AUTHORITIES TO ENSURE DESIRABLE ROUTING IS COMPLETED.

<div><div></div><div><p><b>HAWBAKER</b> ENGINEERING</p><p>Eastern Region: 2801 Canfield Lane, Montoursville, PA 17754 570-368-2636 www.hawbakkerengineering.com</p></div></div>			<b>GRADING &amp; UTILITY PLAN</b>		<b>LOCATION</b> LOYALSOCK TWP LYCOMING COUNTY, PA		<b>DATE:</b> NOVEMBER 20, 2024		<b>DATE:</b> 2/19/24		<b>TWP. ENGINEER COMMENT REV.</b>		<b>RCH</b>	
	<p>LAND DEVELOPMENT PLANS FOR PROPOSED ACCESSORY PARKING LOT ON LANDS OF LOYALSOCK TWP. JOINT JR / SR HIGH SCHOOL LOYALSOCK TOWNSHIP, LYCOMING COUNTY</p>		<b>OWNER:</b> LOYALSOCK TWP - JOINT SR HIGH SCHOOL		<b>OWNER:</b> LOYALSOCK TWP - JOINT SR HIGH SCHOOL		<b>DATE:</b> 1/08/25		<b>TWP. ENGINEER COMMENT REV.</b>		<b>RCH</b>			
			<b>SCALE:</b> AS NOTED		<b>SCALE:</b> AS NOTED		<b>DATE:</b>		<b>TWP. ENGINEER COMMENT REV.</b>		<b>RCH</b>			
			<b>DESIGN:</b> RCH		<b>DESIGN:</b> RCH		<b>DATE:</b>		<b>TWP. ENGINEER COMMENT REV.</b>		<b>RCH</b>			
					<b>DRAWN:</b> RCH		<b>REVISION</b>		<b>DATE</b>		<b>TWP. ENGINEER COMMENT REV.</b>		<b>RCH</b>	





LEGEND



LIGHTING NOTES:

1. LIGHTING PLAN PREPARED BY HAWBAKER ENGINEERING.

LUMINAIRE SCHEDULE

FIXTURE NOTATION	FIXTURE SYMBOL	QUANTITY	LUMINAIRE DESCRIPTION	POLE HEIGHT & DESCRIPTION AND / OR WALL PACK HEIGHT & DESCRIPTION	IES CUTOFF CLASSIFICATION & DISTRIBUTION TYPE	LAMP TYPE	LAMP INITIAL LUMENS
A		2	GL18-4-200LA-9670-NW	EXISTING POLE MOUNT	FULL CUTOFF TYPE IV	LED	24,595
B		1	GL18-4-200LA-9670-NW	SSA-CA-5-188-25-D2-DT2	FULL CUTOFF TYPE IV	LED	24,595

LIGHTING NOTES:  
1. FIXTURE "A" IS SIGNIFY GARDCO GULLWING GL18, MOUNTED ON EXISTING POLE.  
2. FIXTURE "B" IS SIGNIFY GARDCO GULLWING GL18 AT 180, MOUNTED ON GARDCO STRAIGHT SQAURE ALUMINUM 25' POLE.

LOCATION  
LOYALSOCK TWP  
LYCOMING COUNTY, PA

OWNER:  
LOYALSOCK TWP - JOINT  
JR/SR HIGH SCHOOL

SCALE  
AS NOTED

DESIGN:  
RCH

DRAWN:  
RCH

LIGHTING PLAN

LAND DEVELOPMENT PLANS FOR  
PROPOSED ACCESSORY PARKING LOT  
ON LANDS OF LOYALSOCK TWP.  
JOINT JR / SR HIGH SCHOOL  
LOYALSOCK TOWNSHIP, LYCOMING COUNTY

DATE: NOVEMBER 20, 2024

JOB NUMBER:  
24908

SHEET NUMBER:  
LP 1

RCH

TWP. ENGINEER COMMENT REV.

12/19/24

RCH

LCDD COMMENT REV.

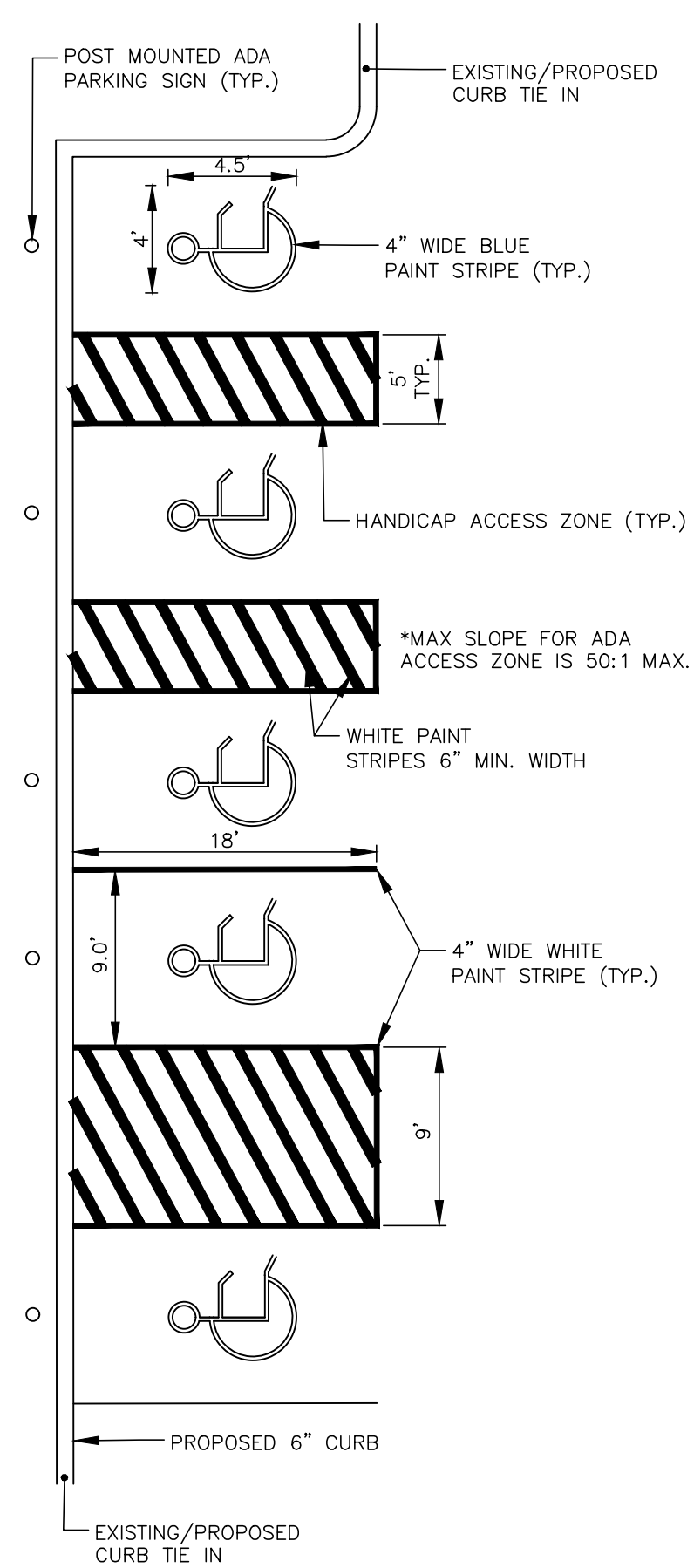
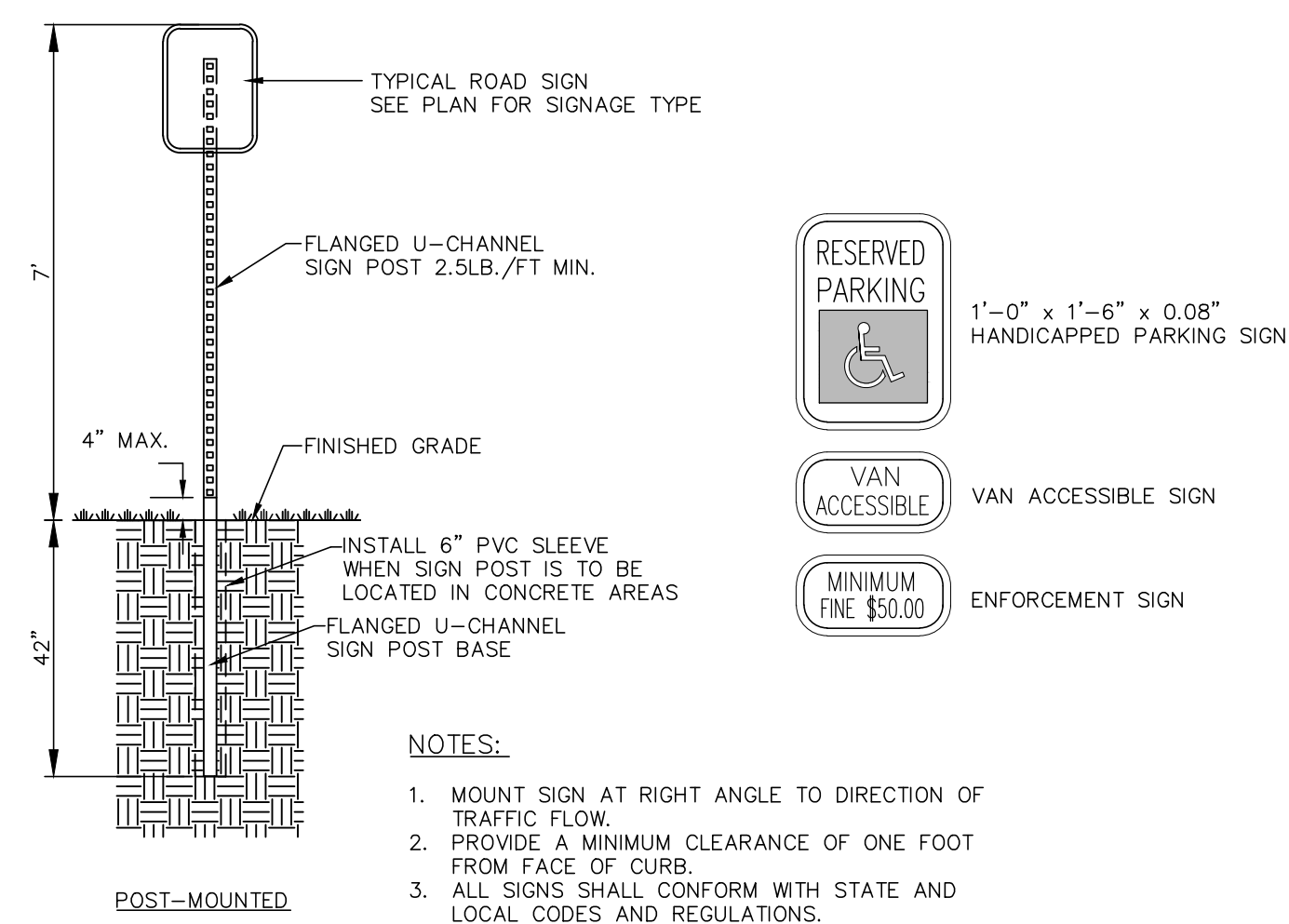
1/08/25

REV. BY

REVISION

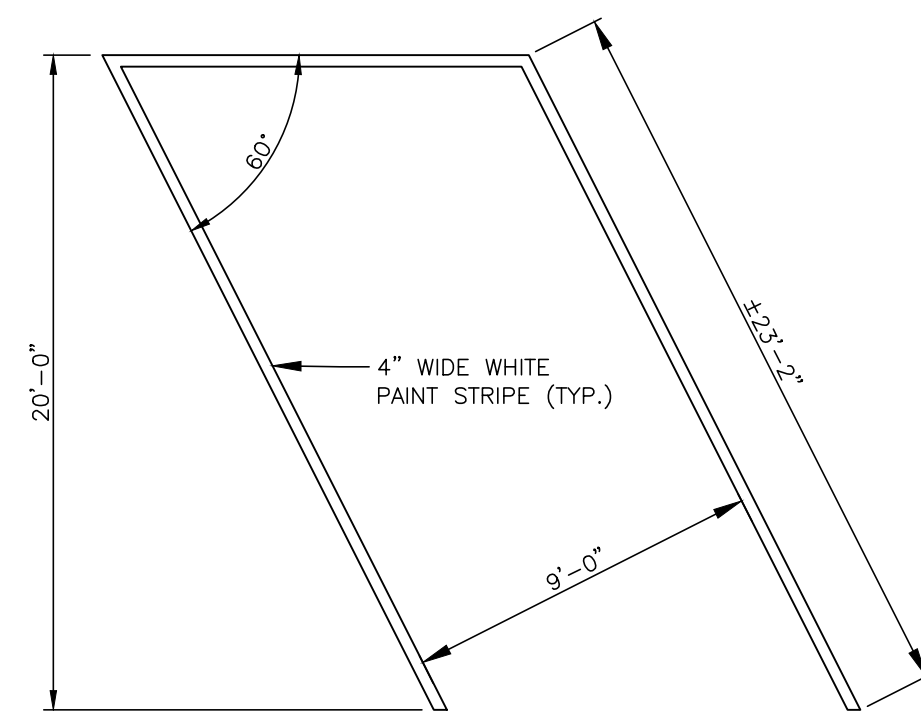
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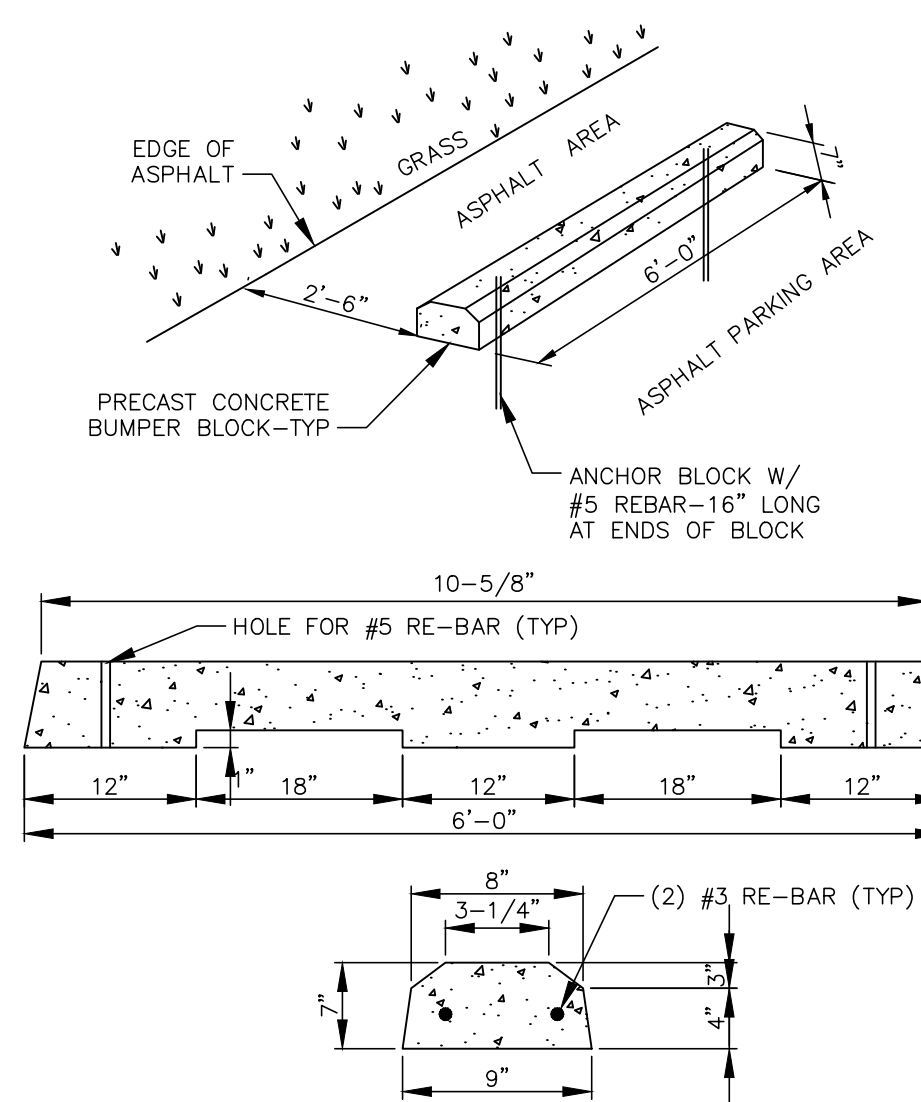


### HANDICAPPED ACCESS AREA DETAIL

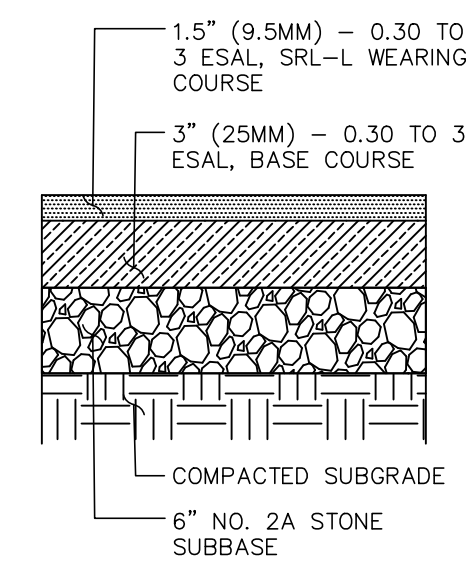
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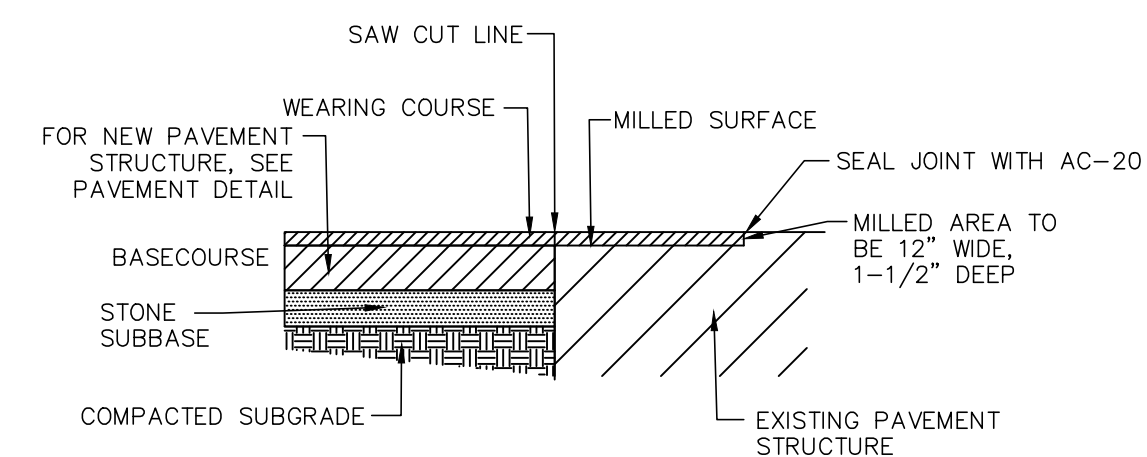
### STANDARD PARKING SPACE DETAIL



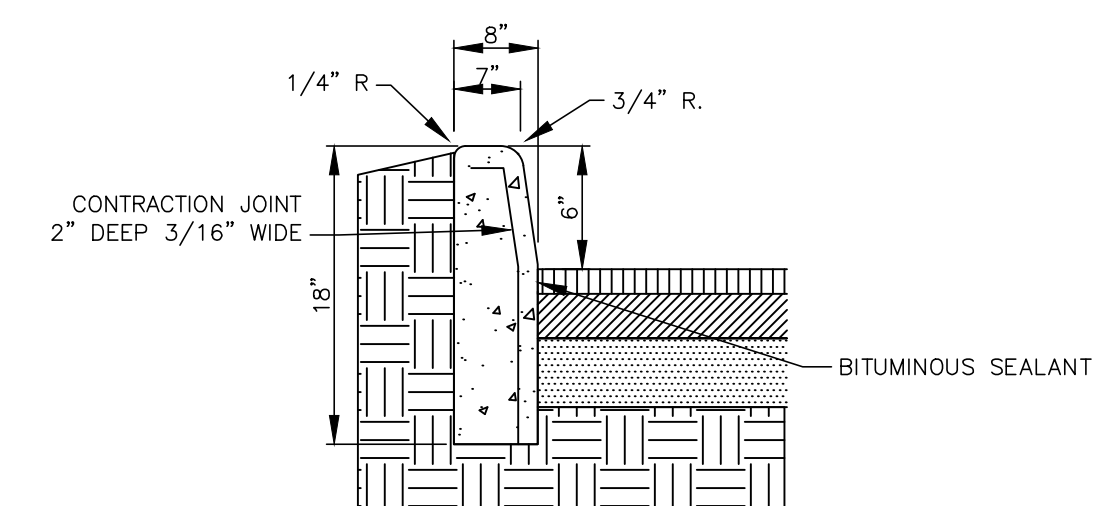
**CONCRETE BUMPER BLOCK DETAIL**  
NOT TO SCALE



**PARKING AREA / DRIVING AISLE  
LIGHT DUTY PAVEMENT SECTION**

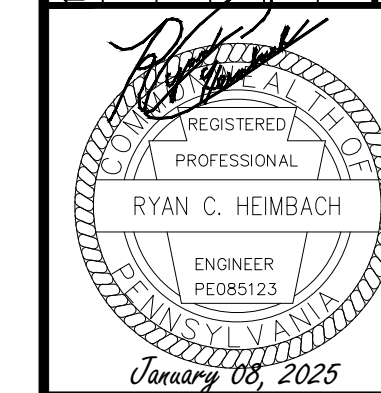


**PAVEMENT SAWCUT DETAIL**  
NOT TO SCALE



**PLAIN CEMENT CONCRETE CURB DETAIL**  
NOT TO SCALE

12/19/24	TWP. ENGINEER COMMENT REV.	RCH
1/08/25	LCCD COMMENT REV.	RCH
DATE	REVISION	REV. BY



LOCATION	LOYALSOCK TWP LYCOMING COUNTY, PA
OWNER:	LOYALSOCK TWP, JOINT JR/SR HIGH SCHOOL
SCALE:	AS NOTED
DESIGN:	DRAWN:
RCH	RCH

# CONSTRUCTION DETAILS

## LAND DEVELOPMENT PLANS FOR PROPOSED ACCESSORY PARKING LOT ON LANDS OF LOYALSOCK TWP. JOINT JR / SR HIGH SCHOOL LOYALSOCK TOWNSHIP, LYCOMING COUNTY

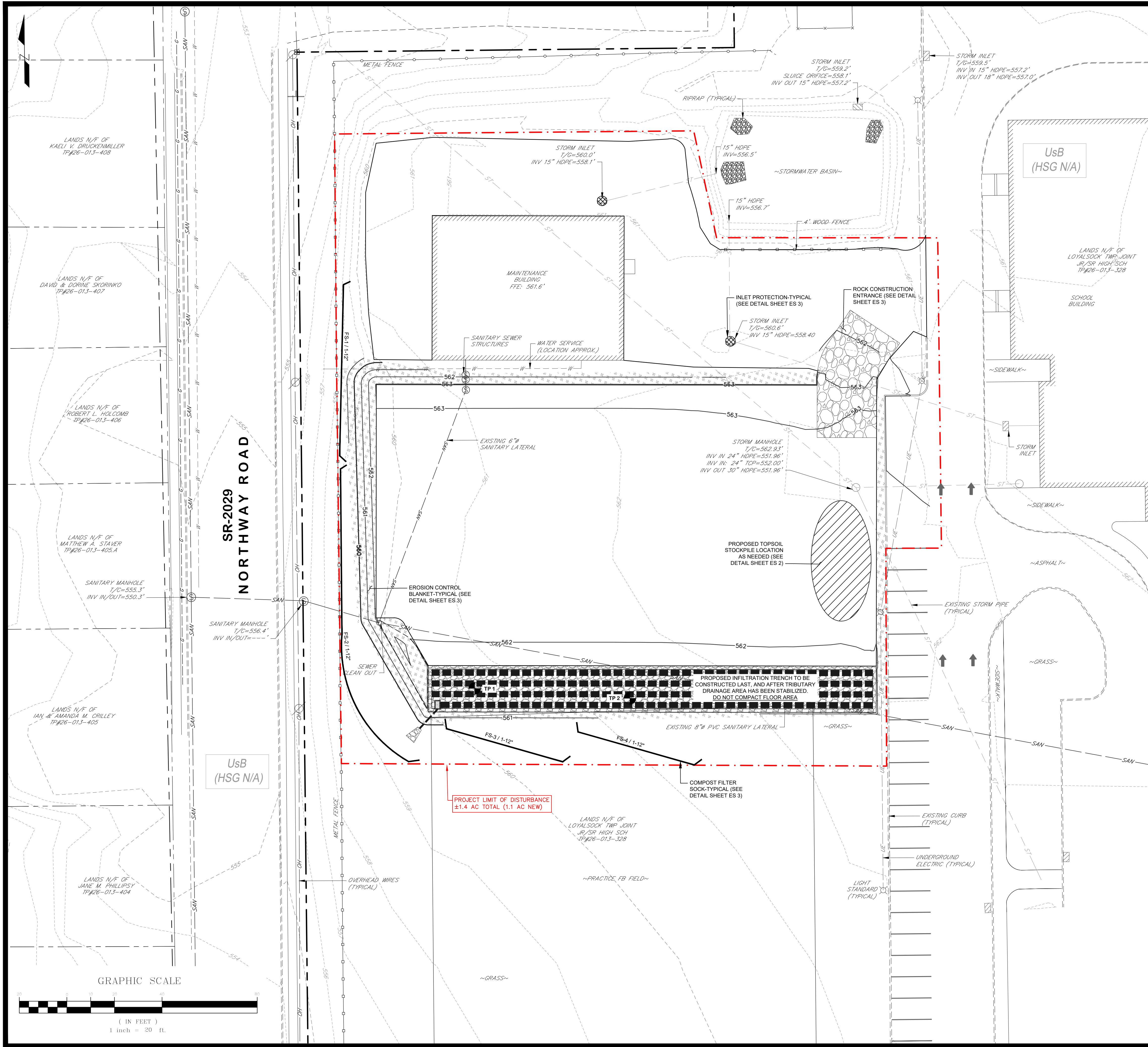


DATE: NOVEMBER 20, 2024

JOB NUMBER:  
**24908**

SHEET NUMBER:  
**CD 1**





LEGEND

EXISTING LINETYPES	
500	CONTOUR MAJOR
499	CONTOUR MINOR
OE	EDGE OF DRIVEWAY
UE	OVERHEAD ELECTRIC LINE
FF	UNDERGROUND ELECTRIC LINE
	FABRIC FENCE
	EDGE OF GRAVEL
	LIMITS OF WORK
OH	OVERHEAD LINE
SAN	GUIDE RAIL
ST	SANITARY SEWER LINE
ST	SANITARY SEWER MANHOLE
ST	STORM LINE
ST	STORM INLET
OT	STREAM
UT	TELECOMMUNICATIONS LINE
UT	UNDERGROUND TELECOMMUNICATIONS LINE
W	TREE LINE
W	WATER LINE
W	WATER VALVE
W	FIRE HYDRANT
W	LIMIT OF WETLANDS
W	ADJOINERS BOUNDARY LINE
W	BOUNDARY LINE
W	CENTERLINE
W	EASEMENT
W	LOT LINE
W	MUNICIPAL BOUNDARY LINE
W	RIGHT-OF-WAY
W	SETBACK LINE
W	SETBACK LINE
W	SOIL LINE
W	ZONING BOUNDARY LINE
W	BOUNDARY MONUMENT
W	SIGN
W	UTILITY POLE W/ GUY WIRE

PROPOSED LINETYPES	
500	CONTOUR MAJOR
499	CONTOUR MINOR
	BOUNDARY LINE
	CENTERLINE
	EASEMENT
	GUIDE RAIL
	RIGHT-OF-WAY
	SETBACK LINE
OE	OVERHEAD ELECTRIC LINE
UE	UNDERGROUND ELECTRIC
G	GAS LINE
SAN	SANITARY SEWER LINE
LAT	SANITARY SEWER LATERAL
LAT	SANITARY SEWER MANHOLE & LABEL
ST	STORM LINE
ST	STORM INLET & LABEL
OT	TELECOMMUNICATIONS LINE
UT	UNDERGROUND TELECOMMUNICATIONS LINE
W	WATER LINE
WAT	WATER SERVICE
WAT	HYDRANT
WAT	EDGE OF PAVEMENT
WAT	PAVEMENT

SOIL PROPERTIES

Referenced from NRCS Custom Soil Resource Report	
Soil Designation	UsB
Soil Name	Urban
Hydrologic Group	N/A
Permeability	2.00-6.00 in/hr
Erosion Factor	N/A
Ground Water Levels	> 80 inches

E&S LEGEND

FS-2/1-12"	FILTER SOCK
	EROSION CONTROL BLANKET
	ROCK CONSTRUCTION ENTRANCE
	TOPSOIL STOCKPILE
	INLET FILTER

LIMITATIONS OF SOILS PERTAINING TO EARTHMOVING PROJECTS

Referenced from Table E.1 PA-DEP E&S BMP Manual (March 31, 2012)	
Soil Symbol	Soil Name
UsB	Urban
Limitations not listed in the PADEP E&S Manual	

LIMITATIONS OF SOILS NOTES:

1. CAVING OF CUTBANKS: APPROPRIATE PRECAUTIONS SHALL BE TAKEN TO SAFEGUARD WORKERS DURING TRENCHING AND EXCAVATION OPERATIONS. ALL APPLICABLE OSHA STANDARDS AND REGULATIONS SHALL BE IMPLEMENTED.
2. CORROSIVE TO CONCRETE: ALL UNDERGROUND PIPING SHALL BE HDPE OR COATED CONDUIT.
3. FLOODING: PRECAUTIONS SHALL BE TAKEN IN THE EVENT OF FLOODING OF THE SITE WHICH MAY INCLUDE DRAINING/EXCAVATION PRECAUTIONS DETERMINED NECESSARY BY THE ENGINEER.
4. DEPTH TO SATURATION ZONE/SATURATED SEASONAL HIGH: IT SHOULD BE ASSUMED THAT EXCAVATIONS WILL ENCOUNTER WATER AND APPROPRIATE MEANS SHALL BE PROVIDED TO HANDLE SUCH WATER AS DETERMINED NECESSARY BY THE ENGINEER.
5. HYDRIC/HYDRIC INCLUSIONS: POSSIBLE MEANS OF LOWERING THE WATER TABLE SHALL BE SOUGHT IF NECESSARY BEFORE ANY ON-LOT SEPTIC SYSTEMS ARE INSTALLED. ADDITIONAL DRAINS MAY BE REQUIRED AROUND THE FOUNDATIONS OF ANY NEWLY CONSTRUCTED BUILDINGS.
6. LOW STRENGTH: PRECAUTIONS SHALL BE TAKEN TO PREVENT SLOPE FAILURES DUE TO OVER-STEEPENING OR OVERLOADING OF SLOPES. SLOPE FAILURES SHALL BE EVALUATED AND CORRECTED AS DETERMINED NECESSARY BY THE ENGINEER.
7. SLOW PERCOLATION: THE DESIGN OF STRUCTURAL INFILTRATION BMP'S SHALL INCLUDE SOIL TESTS FOR INFILTRATION RATES OF THE SOILS WITHIN THE SITE. THE RESULTS TO INFILTRATION TESTS SHALL BE INCLUDED IN THE PCSM PLAN NARRATIVE.
8. PIPING: ANTI-SEEP COLLARS SHALL BE INSTALLED ON PIPES WHICH ARE SUBJECT TO HIGH VOLUMES AND HIGH RATES OF FLOW AS DETERMINED BY THE ENGINEER.
9. TOPSOIL: SOIL TESTING IS STRONGLY RECOMMENDED TO DETERMINE THE PROPER APPLICATION OF SOIL AMENDMENTS TO PROMOTE THE GROWTH OF THE DESIRED VEGETATION.
10. FROST ACTION: PRECAUTIONS SHALL BE SET IN PLACE TO PREVENT DAMAGE TO SOILS FROM FROST, ESPECIALLY SOILS WHICH SERVE AS THE BASE TO A ROADWAY.
11. SHRINK-SWELL: SOIL REINFORCEMENT, PROPER BACKFILLING AND OTHER PRECAUTIONS DETERMINED NECESSARY BY THE ENGINEER SHALL BE PRACTICED IN ORDER TO DECREASE POTENTIAL SOIL STRESSES CAUSED BY HIGH SHRINK/SWELL RATES OF SOILS.
12. POTENTIAL SINKHOLE: SITE INSPECTIONS FOR KARST FEATURES SHALL BE PERFORMED, AND INFILTRATION PRACTICES IN AREAS SUSCEPTIBLE TO SINKHOLE FORMATION SHALL BE AVOIDED. SURFACE RUNOFF SHALL NOT BE CONCENTRATED IN AREAS SUSCEPTIBLE TO SINKHOLE DEVELOPMENT.

GRAPHIC SCALE



( IN FEET )  
1 inch = 20 ft.

LOCATION  
LOYALSOCK TWP.  
LYCOMING COUNTY, PA

OWNER:  
LOYALSOCK TWP. JOINT  
JR/SR HIGH SCHOOL

SCALE:  
AS NOTED

DESIGN:  
RCH

DRAWN:  
RCH

E&S CONTROL PLAN

LAND DEVELOPMENT PLANS FOR  
PROPOSED ACCESSORY PARKING LOT  
ON LANDS OF LOYALSOCK TWP.  
JOINT JR / SR HIGH SCHOOL  
LOYALSOCK TOWNSHIP, LYCOMING COUNTY

HAWBAKER  
ENGINEERING

Eastern Region: 2801 Canfield Lane, Montoursville, PA 17754  
www.hawbakereengineering.com

DATE: NOVEMBER 20, 2024

JOB NUMBER:  
24908

SHEET NUMBER:  
ES 1

RCH

TWP. ENGINEER COMMENT REV.

12/19/24

RCH

LCDD COMMENT REV.

1/08/25

REVISION

DATE

PROFESSIONAL  
RYAN C. HEIMBACH  
ENGINEER  
PE085123  
January 18, 2025

REV. BY

REVISION

DATE



STANDARD E&S PLAN NOTES:

REFERENCED FROM APPENDIX C OF THE PENNSYLVANIA DEPARTMENT OF ENVIRONMENTAL PROTECTION E&S BMP MANUAL (DATED: MARCH 31, 2012)

- 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 LAND OWNER, APPROPRIATE MUNICIPAL OFFICIALS, THE E&S PLAN PREPARER, THE PCSM PLAN PREPARER, THE LICENSE PROFESSIONAL RESPONSIBLE FOR OVERSIGHT OF CRITICAL STAGES OF IMPLEMENTATION OF THE PCSM PLAN, AND A REPRESENTATIVE FROM THE LOCAL CONSERVATION DISTRICT TO AN ON-SITE PRE-CONSTRUCTION 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 LOCAL 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 MAP(S) 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 LOCAL 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 2601 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 LOCAL CONSERVATION DISTRICT OR THE DEPARTMENT FULLY IMPLEMENTED PRIOR TO BEING ACTIVATED.
- THE CONTRACTOR IS RESPONSIBLE FOR ENSURING THAT ANY MATERIAL BROUGHT ON SITE IN 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 LOTS 12-352-119D OR 14-352-114D ON US-220/I-180 OR LYCOMING MALL ROAD.
- 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, RE-GRADING, RE-SEEDING, RE-MULCHING, AND RE-NETTING 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 THE DATES THAT E&S BMPs WERE INSPECTED AS WELL AS ANY DEFICIENCIES FOUND AND THE DATE THEY WERE CORRECTED SHALL BE MAINTAINED ON SITE AND BE MADE AVAILABLE TO REGULATORY 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 OF IN A MANNER DESCRIBED IN THIS PLAN. IN NO CASE SHALL THE SEDIMENT BE WASHED, SHOVELED, OR SWEEP INTO A 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 THE 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, SOO, 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 IN 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 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 LOCAL 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 LOCAL 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 LOCAL 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.

- ALL CHANNELS SHALL BE KEPT FREE OF OBSTRUCTIONS INCLUDING, BUT NOT LIMITED TO FILL, ROCKS, LEAVES, WOODY DEBRIS, ACCUMULATED SEDIMENT, EXCESS VEGETATION, AND CONSTRUCTION MATERIALS/WASTES.
- UNDERGROUND UTILITIES CUTTING THROUGH ANY ACTIVE CHANNEL SHALL BE IMMEDIATELY BACKFILLED AND THE CHANNEL RESTORED TO ITS ORIGINAL CROSS-SECTION AND PROTECTIVE LINING. ANY BASE FLOW WITHIN THE CHANNEL SHALL BE CONVEYED PAST THE WORK AREA IN A MANNER DESCRIBED IN THIS PLAN UNTIL SUCH RESTORATION IS COMPLETE.
- CHANNEL LININGS HAVING RIPRAP, RENO MATRESS, OR GABION LININGS MUST SUFFICIENTLY BE OVER-EXCAVATED SO THAT THE DESIGN DIMENSIONS WILL BE PROVIDED AFTER PLACEMENT OF THE PROTECTIVE LINING.
- SEDIMENT BASINS AND/OR TRAPS SHALL BE KEPT FREE OF ALL CONSTRUCTION WASTE, WASH WATER, AND OTHER DEBRIS HAVING POTENTIAL TO CLOG THE BASIN/TRAP OUTLET STRUCTURES AND/OR POLLUTE THE SURFACE WATERS.
- SEDIMENT BASINS SHALL BE PROTECTED FROM UNAUTHORIZED ACTS BY THIRD PARTIES.
- ANY DAMAGE THAT OCCURS IN WHOLE OR IN PART AS A RESULT OF BASIN OR TRAP DISCHARGE SHALL BE IMMEDIATELY REPAIRED BY THE PERMITTEE IN A PERMANENT MANNER SATISFACTORY TO THE MUNICIPALITY, LOCAL CONSERVATION DISTRICT, AND THE OWNER OF THE DAMAGED PROPERTY.
- UPON REQUEST, THE APPLICANT OR HIS/HER CONTRACTOR SHALL PROVIDE AN AS-BUILT (RECORD DRAWING) FOR ANY SEDIMENT BASIN OR TRAP TO THE MUNICIPAL INSPECTOR, LOCAL CONSERVATION DISTRICT OF THE DEPARTMENT.
- 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.
- FILL MATERIAL FOR EMBANKMENTS SHALL BE FREE OF ROOTS, OTHER WOODY VEGETATION, ORGANIC MATERIAL, LARGER STONES, AND OTHER OBJECTIONABLE MATERIALS. THE EMBANKMENT SHALL BE COMPACTED IN MAXIMUM 9" LAYERED LIFTS AT 95% DENSITY.

RECYCLING AND DISPOSAL METHODS:

THE RECYCLING AND DISPOSAL OF MATERIALS SHALL BE IN ACCORDANCE WITH LOCAL, STATE AND FEDERAL REGULATIONS, INCLUDING SECTION 102.4(B)(5)(XII)} COMPLY WITH AIR QUALITY, WATER QUALITY, SOLID WASTE MANAGEMENT POLICIES, ETC.

- EXCESS SOIL MATERIALS
- TREES, SHRUBS AND BRUSH REMOVED DURING CLEARING AND GRUBBING
- SANITARY WASTES
- CONCRETE WASH WATER
- PACKAGING MATERIALS (WOOD, PAPER, PLASTIC, STYROFOAM, ETC.)
- SCRAP OR SURPLUS BUILDING MATERIALS (METALS, RUBBER, PLASTIC, GLASS, MASONRY PRODUCTS, AND OTHER SOLID WASTE MATERIALS)
- PETROLEUM PRODUCTS, PAINT AND THINNERS, CLEANING SOLVENTS, CURING COMPOUNDS AND SIMILAR MATERIALS
- DEMOLITION DEBRIS
- UNLESS OTHERWISE DIRECTED, EXCESS SOIL AND EXCAVATED MATERIAL MAY BE USED FOR FILL MATERIAL ON SITE OR OFF SITE. IF THE PROJECT 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. COORDINATE WITH OWNER AND COUNTY CONSERVATION DISTRICT. ANY MATERIAL THAT IS IMPORTED OR EXPORTED FROM SITE WILL BE CLASSIFIED AS CLEAN FILL PER THE PENNSYLVANIA DEPARTMENT OF ENVIRONMENTAL PROTECTION, AND WILL HAVE AN APPROVED E&S CONTROL PLAN.
- TREES, SHRUBS AND BRUSH SHALL BE CHIPPED WHEN POSSIBLE AND REUSED AS MULCH. DO NOT BURN WITHOUT PERMISSION.
- WHERE POSSIBLE, WASTES SHALL BE RECYCLED. WHERE NOT PRACTICAL WASTES SHALL BE PROPERLY DISPOSED OF AT A PERMITTED LANDFILL FACILITY. THE CONTRACTOR IS ENCOURAGED TO CONSULT THE RECYCLING HOTLINE OR LOCAL SOLID WASTE MANAGEMENT AGENCY.
- CONTRACTOR SHALL PRACTICE GOOD HOUSEKEEPING, INCLUDING BUT LIMITED TO THE FOLLOWING:
  - CONTROL OF LITTER PROVIDING CONTAINERS WITH LIDS IF NEEDED.
  - REGULAR DISPOSAL AND PROMPT CLEANUP OF ANY SPILLS IN ACCORDANCE WITH MANUFACTURER'S INSTRUCTIONS OR IN ACCORDANCE WITH REGULATORY REQUIREMENTS.
  - UTILIZE A SPECIALTY FIRM IF REQUIRED.
  - PROMPT CLEANUP OF SEDIMENTS WITHIN THE SITE AND ONTO ADJACENT ROADWAYS
  - KEEP DUST WITHIN TOLERABLE LIMITS BY USING WATER OR OTHER APPROVED DUST SUPPRESSORS.

ENVIRONMENTAL DUE DILIGENCE:

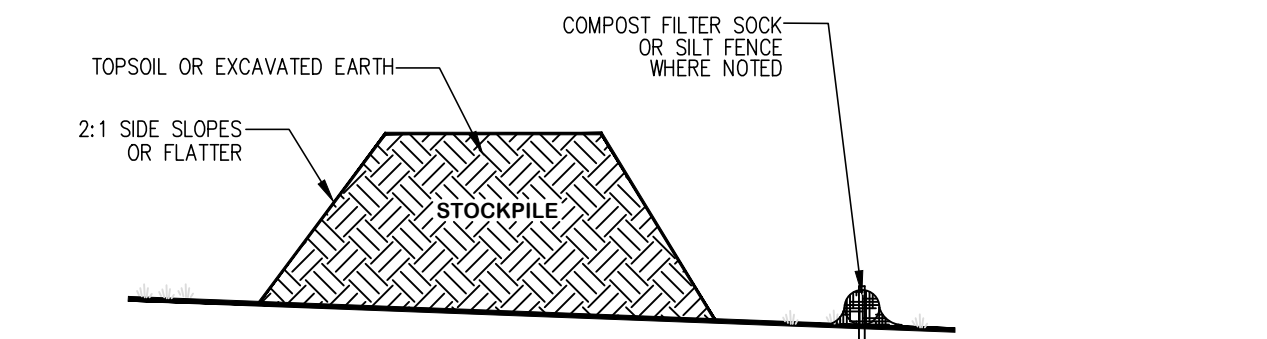
IF THE SITE WILL NEED TO IMPORT OR EXPORT MATERIAL FROM THE SITE, THE RESPONSIBILITY FOR PERFORMING ENVIRONMENTAL DUE DILIGENCE AND DETERMINATION OF CLEAN FILL WILL REST WITH THE CONTRACTOR.

-CLEAN FILL IS DEFINED AS: UNCONTAMINATED, NON WATER SOLUBLE, NON-DECOMPOSABLE, INERT, SOLID MATERIAL. THE TERM INCLUDES SOIL, ROCK, STONE, DREDGED MATERIAL, USED ASPHALT, AND BRICK, BLOCK OR CONCRETE FROM CONSTRUCTION AND DEMOLITION ACTIVITIES THAT IS SEPARATE FROM OTHER WASTE AND IS RECOGNIZABLE AS SUCH. THE TERM DOES NOT INCLUDE MATERIALS PLACED IN OR ON THE WATERS OF THE COMMONWEALTH UNLESS OTHERWISE AUTHORIZED. CLEAN FILL 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 FILL THAT HAS BEEN AFFECTED BY A SPILL OR RELEASE OF A REGULATED SUBSTANCE MUST USE FORM FP-001 TO CERTIFY THE ORIGIN OF THE FILL MATERIAL AND THE RESULTS OF THE ANALYTICAL TESTING TO QUALIFY THE MATERIAL AS CLEAN FILL. FORM FP-001 MUST BE RETAINED BY THE OWNER OF THE PROPERTY RECEIVING THE FILL. A COPY OF FORM FP-001 CAN BE FOUND AT WWW.PACODE.COM.

-ENVIRONMENTAL DUE DILIGENCE: THE APPLICANT 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 AND 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 A REGULATED SUBSTANCE. IF THE FILL MAY HAVE BEEN AFFECTED BY A SPILL, OR RELEASE OF A REGULATED SUBSTANCE, IT MUST BE TESTED TO DETERMINE 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 CHAPTER 287 - RESIDUAL WASTE MANAGEMENT OR 271 MUNICIPAL WASTE MANAGEMENT, WHICHEVER IS APPLICABLE. THESE REGULATIONS ARE AVAILABLE ON LINE AT WWW.PACODE.COM



NOTES:

- SILT FENCE OR SILT SOCK TO EXTEND AROUND DOWNSIDE OF STOCKPILE
- REFER TO SILT SOCK OR SILT FENCE DETAIL FOR PORTIONS AND INSTALLATION METHODS.
- UPON COMPLETION, THE STOCKPILE SHALL BE STABILIZED WITH THE TEMPORARY SEEDING MIXTURE TO MINIMIZE EROSION.
- THE FENCE INSTALLATION SHOULD BE INSPECTED AFTER ALL RAINFALL OR SNOWMELT RUNOFF EVENT. REPAIR OR REPLACEMENT OF SILT SOCK/FENCE SHALL BE MADE PROMPTLY AS NEEDED.
- SEDIMENT TRAPPED BY THE SILT FENCE/SOCK SHALL BE REMOVED AND PROPERLY DISPOSED OF WHENEVER SEDIMENT ACCUMULATION IS EQUAL TO 1/2 OF THE FENCE HEIGHT.

TEMPORARY TOPSOIL STOCKPILE DETAIL

NOT TO SCALE

EROSION AND SEDIMENT CONTROL BMP MAINTENANCE REQUIREMENTS

THE SITE WORK CONTRACTOR SHALL INSPECT AND MAINTAIN ALL TEMPORARY AND PERMANENT EROSION AND SEDIMENT POLLUTION CONTROL MEASURES DURING CONSTRUCTION OF THE PROJECT. INSPECT MEASURES AFTER EACH MEASURABLE RAINFALL EVENT OR AT LEAST WEEKLY TO INSURE MEASURES ARE EFFECTIVE AND EFFICIENT. BMP'S THAT FAIL OR REQUIRE MAINTENANCE AFTER INSTALLATION MUST BE REPAIRED TO FUNCTION PROPERLY OR BE REPLACED BY AN ALTERNATE BMP THAT WILL SERVE THE SAME INTENDED PURPOSE AS THE ORIGINAL. IMMEDIATELY REPAIR DAMAGE TO RESTORE MEASURES TO ORIGINAL CONDITION. CLEAN AND CHANGE AS NEEDED. ANY SILT MATERIAL REMOVED FROM MEASURES WILL GENERALLY BE DISPOSED OF AT A TOPSOIL STOCKPILE. REPAIR, RESEED, AND RE-MULCH ANY AREAS THAT ERODE PRIOR TO FINAL STABILIZATION. FINAL STABILIZATION WILL OCCUR WHEN THERE IS A UNIFORM VEGETATIVE COVER OR DENSITY OF 70% AS DETERMINED BY THE LCDD ACROSS THE DISTURBED AREA. SPECIFIC MAINTENANCE MEASURES FOR EACH BMP ARE INCLUDED WITH THE DETAILS ON THE PLANS, AND AS FOLLOWS:

A TEMPORARY ROCK CONSTRUCTION ENTRANCE WILL BE INSTALLED TO ACCESS THE SITE. ROCK THICKNESS SHALL BE MAINTAINED TO THE SPECIFIED DIMENSIONS BY ADDING ROCK. A STOCKPILE SHALL BE MAINTAINED ON SITE FOR THIS PURPOSE. AT THE END OF EACH DAY, ALL SEDIMENT DEPOSITED ON PAVED ROADS WILL BE REMOVED AND RETURNED TO THE CONSTRUCTION SITE.

FILTER FENCE/SILT SOCK: FILTER FENCE SHALL BE INSTALLED ON EXISTING LEVEL GRADE. INSPECT FILTER FENCE WEEKLY AND AFTER EACH RUNOFF EVENT. ACCUMULATED SEDIMENT SHALL BE REMOVED WHEN IT REACHES ½ THE ABOVE GROUND HEIGHT. DAMAGED FENCE SHALL BE REPLACED OR REPAIRED WITHIN AND 24 HOURS.

SEDIMENT TRAP: AN AREA UNDER THE TRAP EMBANKMENT SHALL BE CLEARED, GRUBBED, AND STRIPPED OF TOPSOIL A DEPTH OF TWO FEET PRIOR TO ANY PLACEMENT AND COMPACTION OF EARTHEN FILL. FILL MATERIAL FOR THE EMBANKMENTS SHALL BE FREE OF ROOTS, OR OTHER WOODY VEGETATION, ORGANIC MATERIAL, LARGER STONES, AND OTHER OBJECTIONABLE MATERIALS. THE EMBANKMENT SHALL BE COMPACTED IN LAYERED LIFTS OF NOT MORE THAN 6" TO 9". THE MAXIMUM ROCK SIZE SHALL BE NO GREATER THAN 2/3 THE LIFT THICKNESS. UPON COMPLETION, THE EMBANKMENT SHALL BE SEEDED AND MULCHED OR OTHERWISE STABILIZED ACCORDING TO THE SPECIFICATIONS OF THE E&S PLAN DRAWINGS. TREES SHALL NOT BE PLANTED ON THE EMBANKMENT. ACCESS SHALL BE PROVIDED FOR SEDIMENT REMOVAL AND OTHER REQUIRED MAINTENANCE ACTIVITIES. A CLEAN OUT STAKE SHALL BE PLACED NEAR THE CENTER OF EACH TRAP. ACCUMULATED SEDIMENT SHALL BE REMOVED WHEN IT HAS REACHED THE CLEAN OUT ELEVATION ON THE STAKE AND RESTORED TO THE ORIGINAL DIMENSIONS. DISPOSE OF MATERIALS REMOVED FROM THE TRAP IN A MANNER DESCRIBED ON THE E&S PLAN. INSPECT ALL SEDIMENT TRAPS ON AT LEAST A WEEKLY BASIS AND AFTER EACH RUNOFF EVENT. CHECK TRAP EMBANKMENTS, SPILLWAYS, AND OUTLETS FOR EROSION, PIPING AND SETTLEMENT. NECESSARY REPAIRS SHALL BE MADE IMMEDIATELY. DISPLACED RIPRAP WITHIN THE OUTLET ENERGY DISSIPATOR SHALL BE REPLACED IMMEDIATELY. ACCUMULATED SEDIMENT SHALL BE REMOVED AND DISTURBED AREAS SHALL BE STABILIZED INSIDE THE TRAP BEFORE CONVERSION TO A STORMWATER MANAGEMENT FACILITY.

TOPSOIL STOCKPILE: A TOPSOIL STOCKPILE SHALL BE MAINTAINED ON-SITE FOR THE SEEDING AND MULCHING OF DISTURBED AREAS. TOPSOIL STOCKPILES SHALL NOT EXCEED 30' IN HEIGHT. TOPSOIL STOCKPILE SIDE SLOPES SHALL NOT BE GRADED STEEPER THAN 2H:1V. THE TOPSOIL STOCKPILE SHALL BE SEEDED AND MULCHED AFTER 4 CONSECUTIVE DAYS OF INACTIVITY.

ROCK FILTER OUTLETS: ROCK FILTER OUTLETS SHALL BE USED TO ADDRESS PROBLEMS OF CONCENTRATED FLOWS TO SEDIMENT BARRIERS OR SEDIMENT COLLECTION FACILITIES. WHEREVER A SEDIMENT BARRIER HAS FAILED DUE TO AN UNANTICIPATED CONCENTRATED FLOW, A ROCK FILTER BARRIER SHOULD BE INSTALLED UNLESS THAT CONCENTRATED FLOW CAN OTHERWISE BE DIRECTED AWAY FROM THE BARRIER. SEDIMENT SHALL BE REMOVED WHEN IT REACHES 1/3 THE HEIGHT OF THE OUTLET.

INLET PROTECTION: MAXIMUM DRAINAGE AREA TO ANY INLET PROTECTION SHALL BE LIMITED TO 1/2 ACRE. BERMS SHALL BE REQUIRED FOR ALL INSTALLATIONS. ROLLED EARTHEN BERM SHALL BE MAINTAINED UNTIL THE SURROUNDING AREA RECEIVES FINAL PAVEMENT COAT. AT A MINIMUM, FABRIC SHALL HAVE A MINIMUM GRAB TENSILE STRENGTH OF 120 LB, A MINIMUM BURST STRENGTH OF 200 PSI AND A MINIMUM TRAPEZOIDAL TEAR STRENGTH OF 50 LBS. FILTER BAGS SHALL BE CAPABLE OF TRAPPING ALL PARTICLES NOT PASSING A NO. 40 SIEVE. INLET FILTER BAGS SHALL BE INSPECTED WEEKLY AND AFTER EACH RUNOFF EVENT. BAGS SHALL BE EMPTIED AND RINSED OR REPLACED WHEN HALF FULL OR WHEN FLOW CAPACITY HAS BEEN REDUCED SO AS TO CAUSE FLOODING OR BYPASSING OF THE INLET. DAMAGED OR CLOGGED BAGS SHALL BE REPLACED. A SUPPLY SHALL BE MAINTAINED ON SITE FOR THE REPLACEMENT OF BAGS. ALL NEEDED REPAIRS SHALL BE INITIATED IMMEDIATELY AFTER THE INSPECTION. DISPOSE IF ACCUMULATED SEDIMENT AS WELL AS ALL USED BAGS ACCORDING TO THE PLAN NOTES. DO NOT USE ON MAJOR PAVED ROADWAYS WHERE PONDING MAY CAUSE TRAFFIC HAZARDS.

PUMPED WATER FILTER BAG: 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 A 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%. A CLEAN ROCK OR OTHER 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 HO OR EV WATERSHEDS, WITHIN 50' OF ANY RECEIVING SURFACE WATER OR WHERE GRASSY AREA IS NOT AVAILABLE.

SCHEDULE OF ACTIVITIES

THE SCHEDULE OF ACTIVITIES (CONSTRUCTION SEQUENCE) IS PROVIDED AS GUIDANCE FOR IMPLEMENTATION OF THE E&S AND PCSM CONTROL FEATURES AND CONSTRUCTION OPERATIONS. MINOR DEVIATIONS TO THE SCHEDULE FOR OVERALL CONSTRUCTABILITY OR COST SAVINGS MAY BE APPROVED BY THE OWNER, PROVIDED THAT THERE IS NO REDUCTION IN E&S PROTECTION OR STORMWATER MANAGEMENT CAPABILITY.

THE CONSTRUCTION IS SCHEDULED TO BEGIN IN THE SPRING OF 2025 AND SHOULD BE COMPLETED BY THE FALL OF 2025.

PRE-CONSTRUCTION

- ALL APPLICABLE PERMITS AND APPROVALS REQUIRED FOR THIS PROJECT SHALL BE SECURED PRIOR TO THE START OF CONSTRUCTION. COPIES OF ALL PERMITS, PLANS, APPROVALS ETC SHALL BE KEPT ON-SITE AT ALL TIMES.
- PA-ONE CALL MUST BE NOTIFIED AT LEAST THREE DAYS PRIOR TO ANY EARTH DISTURBANCE ACTIVITY.

CONSTRUCTION

- MOBILIZE NECESSARY EQUIPMENT TO SITE AND INSTALL FILTER SOCK AT LIMITS OF GRADE LINE AND ALL AREAS AS SHOWN ON THE PLANS AS WELL AS THE ROCK CONSTRUCTION ENTRANCE. THIS ENTRANCE WILL BE UTILIZED AS THE MAIN ACCESS POINT THROUGHOUT THE CONSTRUCTION PROCESS.
- REMOVE AND STOCKPILE TOPSOIL AS SHOWN ON THE PLANS. AN ALTERNATE STOCKPILE LOCATION WITHIN THE LIMIT OF DISTURBANCE IS ACCEPTABLE AT THE AGREEMENT OF THE OWNER.
- THE INFILTRATION TRENCH AREA SHALL BE MARKED IN ORDER TO AVOID ANY UNNECESSARY COMPACTION.
- CURB DEMO AND CONSTRUCTION (INCLUDING NEW CURB, SUBBASE AND PAVEMENT) OF THE ADA STALLS ALONG THE MAIN ACCESS ROAD MAY BE COMPLETED AT ANY POINT OF THE SEQUENCE AT THE AGREEMENT AND DISCRETION OF THE CONTRACTOR AND OWNER.
- GENERAL NOTE: ALL AREAS OF TEMPORARY OR PERMANENT WORK CESSATION SHALL BE STABILIZED ACCORDING TO THE NOTES AND DRAWING DETAILS. TIMING FOR STABILIZATION IS BASED ON THE LENGTH OF WORK CESSATION AND PROXIMITY TO SURFACE WATERS. ALL DISTURBED AREAS SHALL BE PERMANENTLY STABILIZED UPON REACHING FINAL GRADE. EROSION CONTROL MATTING SHALL BE INSTALLED ON ALL SLOPES 3:1 OR STEEPER. APPLY TOPSOIL AND STABILIZE ALL PEROUS AREAS NOT WITHIN THE VICINITY OF CONTINUING CONSTRUCTION OPERATIONS.
- EXISTING SEWER CLEANOUTS AND TANK LIDS TO BE RAISED TO NEW FINISHED GRADE ELEVATIONS AS SHOWN NON PLANS.
- BEGIN ROUGH GRADING OF THE PARKING LOT AREA AND ENTRANCE TO SUBGRADE ELEVATION AS SPECIFIED ON PLANS. ALL / IF ANY EXPORT MATERIAL SHALL BE TRANSPORTED TO AN APPROVED OFFSITE LOCATION. ALL / IF ANY IMPORT MATERIAL SHALL BE CLEAN FILL AS SPECIFIED ON THE PLAN. INSTALLATION OF ANY FILL MATERIAL INCLUDING SUBBASE SHALL BE IN 9" LIFTS, COMPACTING EACH LIFT TO A 90% COMPACTION.
- SITE LIGHTING SHALL BE INSTALLED.
- STABILIZATION OF ALL TRIBUTARY DRAINAGE AREAS SHALL BE COMPLETED PRIOR TO START OF THE INFILTRATION TRENCH CONSTRUCTION.
- CONSTRUCT THE INFILTRATION TRENCH PER SPECIFICATIONS AND DETAILS ON THE PLAN (REFER TO BMP INSTALLATION SCHEDULE FOR DETAILED CONSTRUCTION SEQUENCE). PROVIDE OUTLET PROTECTION, ETC PER PLAN DETAILS AND SPECIFICATIONS. REFER TO THE PLAN FOR CRITICAL STAGE INSPECTION SCHEDULE.
- SUBBASE AND PAVEMENT SECTION MAY BE PLACED AT THE CONTRACTOR'S DISCRETION AND IN ACCORDANCE WITH THE PLAN SPECIFICATIONS AND DETAILS.
- INSPECT ALL IMPROVEMENTS TO ENSURE CONSISTENCY WITH APPROVED PLAN.
- APPLY TOPSOIL AS NECESSARY AND STABILIZE ALL REMAINING PEROUS AREAS. STABILIZE ANY ADDITIONAL AREAS PER PLAN SPECIFICATIONS. WHEN UNIFORM 70% VEGETATION IS ESTABLISHED, CONTACT THE COUNTY CONSERVATION DISTRICT FOR FINAL INSPECTION BEFORE REMOVING ANY TEMPORARY EROSION AND SEDIMENT CONTROL MEASURES.

RECOMMENDED PERMANENT SEED MIXTURES COOL AND WARM SEASON GRASS

MIXTURE	SEASON	SPECIES	SEEDING RATE lb./ac.
1	COOL	TALL FESCUE* OR FINE FESCUE, PLUS REDTOP, OR PERENNIAL RYEGRASS, + BIRDSFOOT TREFOIL	79 46 4 19 8
2	COOL	BIRDSFOOT TREFOIL, PLUS TALL FESCUE*	8 40
3	COOL	ORCHARDGRASS, OR SMOOTH BROMEGRASS, + BIRDSFOOT TREFOIL	26 33 8
4	WARM	FLATPEA, PLUS TALL FESCUE*, OR PERENNIAL RYEGRASS	27 26 25
5	WARM	DEERTONGUE, PLUS BIRDSFOOT TREFOIL	21 8
6	WARM	SWITCHGRASS, OR BIG BLUESTEM, PLUS BIRDSFOOT TREFOIL	15 15 8

RECOMMENDED SEED MIXTURES FOR STABILIZING DISTURBED AREAS

SITE CONDITION	SEED MIXTURE (SELECT ONE MIXTURE)
CUT SLOPES AND FILLS (NOT MOWED) WELL-DRAINED VARIABLE DRAINAGE	2, 4, OR 6 2
CUT SLOPES AND FILLS (MOWED)	1
CUT SLOPES AND FILLS (GRAZED/HAY)	1, 2, OR 3
GULLIES AND ERODED AREAS	2 OR 6
EROSION CONTROL BMP'S CHANNELS, DRAINAGE DITCHES, TRAP EMBANKMENTS, ETC. FOR HAY OR SILAGE	1 OR 2 2 OR 3
RIGHT-OF-WAY WELL-DRAINED VARIABLE DRAINAGE WELL-DRAINED AREAS FOR GRAZING/HAY	4 OR 6 2 2 OR 3
STRIP MINED AREAS SPOILS, WASTE AREAS, FLY ASH, SLAG, ETC. (LIME TO SOIL TEST) FOR GRAZING/HAY	2, 4, OR 5 2, 3, OR 6

NOTES:

- EROSION CONTROL BLANKET (NAG S150 OR EQUIVALENT) WILL BE USED IF REQUIRED ON SLOPES, SHOULD RUTTING OCCUR.
- MULCH SHALL BE APPLIED WHERE REQUIRED AT A RATE OF 3 TONS/ACRE.
- TEMPORARY SEEDING MIXTURE SHALL BE PENNDOT FORMULA E.
- SEEDING SHALL OCCUR NO GREATER THAN 4 (FOUR) DAYS FOLLOWING THE COMPLETION OF EARTHWORK ACTIVITIES.

CUBIC YARDS OF TOPSOIL REQUIRED FOR APPLICATION TO VARIOUS DEPTHS

DEPTH (IN)	PER 1,000 SF	PER ACRE
1	3.1	134
2	6.2	268
3	9.3	403
4	12.4	537
5	15.5	672
6	18.8	806
7	21.7	940
8	24.8	1,074

FERTILIZER & LIME APPLICATION TABLE

SOIL AMENDMENT	PERMANENT SEEDING APPLICATION RATE PER ACRE	SEEDING APPLICATION RATE PER 1,000 SY	NOTES
AGRICULTURAL LIME	6 TON	240 LB.	2,480 LB. OR AS PER SOIL TEST, MAY NOT BE REQUIRED IN AGRICULTURAL FIELDS
10-20-20 FERTILIZER	1,000 LB	25 LB.	210 LB. OR AS PER SOIL TEST, MAY NOT BE REQUIRED IN AGRICULTURAL FIELDS
TEMPORARY SEEDING APPLICATION RATE			
AGRICULTURAL LIME	1 TON	40 LB.	410 LB. TYPICALLY NOT REQUIRED FOR TOPSOIL STOCKPILES
10-10-10 FERTILIZER	500 LB	12.5 LB.	100 LB. TYPICALLY NOT REQUIRED FOR TOPSOIL STOCKPILES

NOTES:

- EROSION CONTROL BLANKET WHICH MEETS THE STANDARDS OF CHAPTER 11 OF THE PADEP E&S MANUAL MAY BE SUBSTITUTED FOR THE SOIL AMENDMENTS SHOWN IN TABLE ABOVE.

RCH

RCH

TWP. ENGINEER COMMENT REV.

LCDD COMMENT REV.

12/19/24

1/08/25

DATE

REVISION

REV. BY

REGISTERED PROFESSIONAL  
RYAN C. HEIMBACH  
ENGINEER  
PE085123

January 18, 2025

LOCATION  
LOYALSOCK TWP.  
LYCOMING COUNTY, PA

OWNER  
LOYALSOCK TWP. JOINT  
JAY/SE HIGH SCHOOL

SCALE  
AS NOTED

DESIGN  
RCH

DRAWN  
RCH

E&S NOTES & DETAILS

LAND DEVELOPMENT PLANS FOR  
PROPOSED ACCESSORY PARKING LOT  
ON LANDS OF LOYALSOCK TWP.  
JOINT JR / SR HIGH SCHOOL  
LOYALSOCK TOWNSHIP, LYCOMING COUNTY

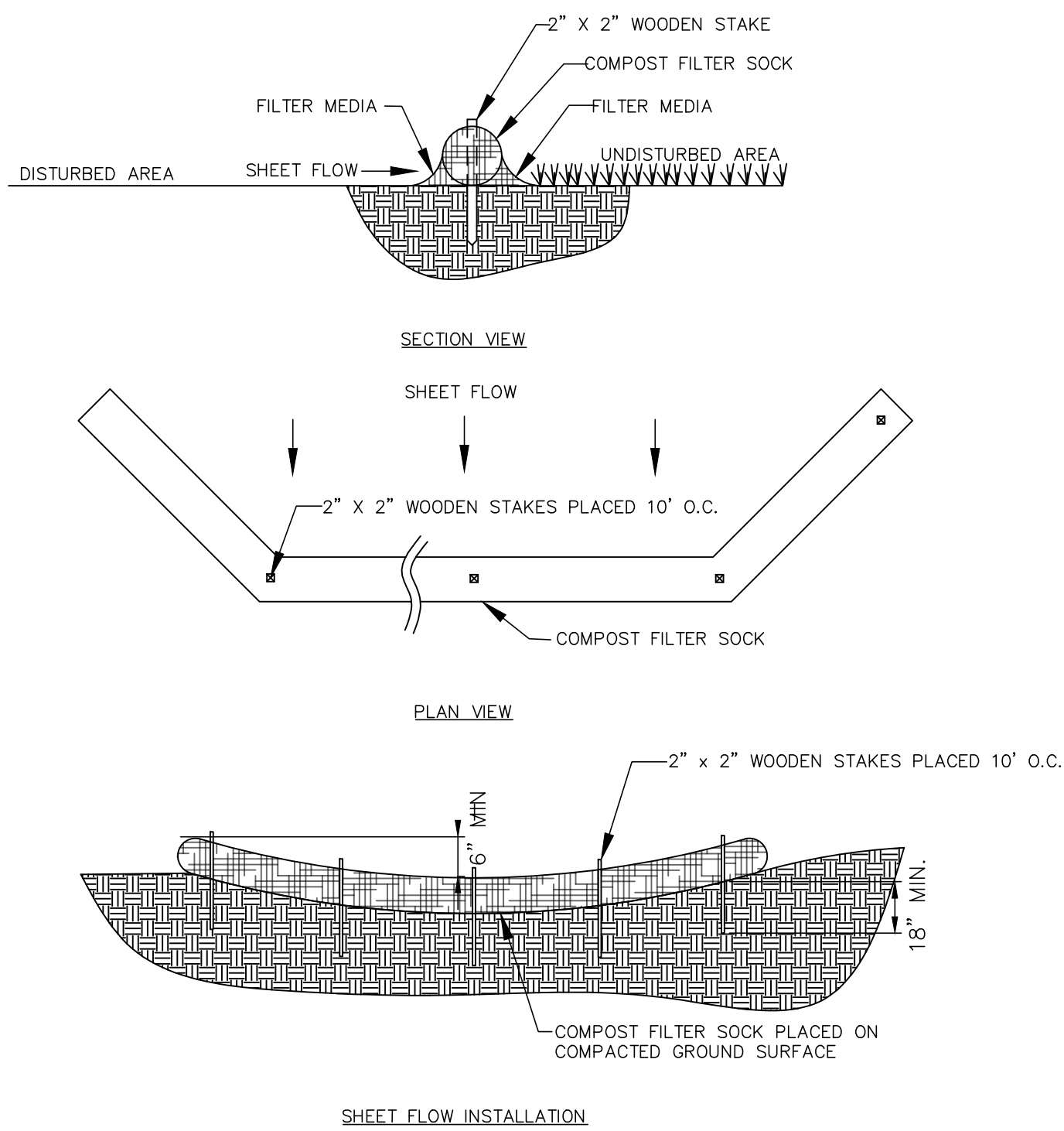
AWBAKER ENGINEERING

Eastern Region: 2801 Canfield Lane, Montoursville, PA 17754  
570-368-2636  
www.hawbakereengineering.com

DATE: NOVEMBER 20, 2024  
JOB NUMBER:  
24908  
SHEET NUMBER:  
ES 2

NOTED: January 18, 2025-2:44pm (1002) FILENAME: F:\Projects\2024\_MTY Projects\24908\_LTSB Parking Lot\_MST\Drawings\LOYALSOCK\_SJ\_PL\_E&S\_1.dwg LAYOUT: ES-2



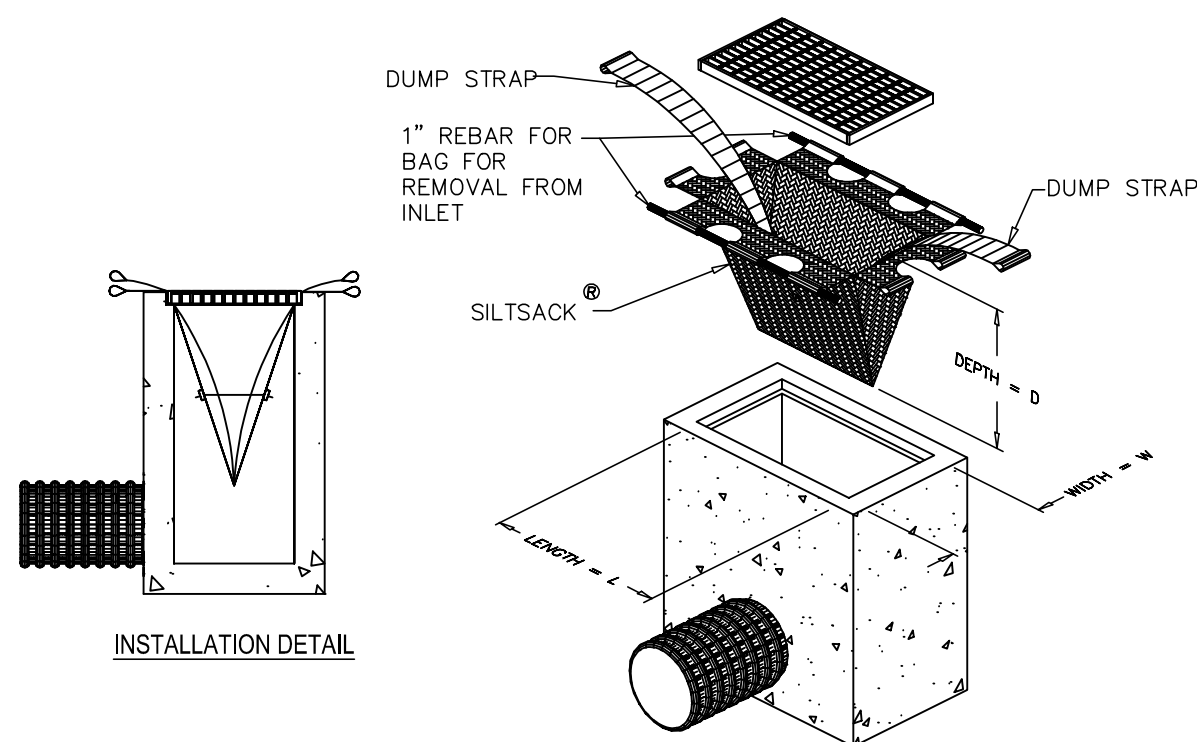


#### NOTES:

1. COMPOST FILTER SOCKS SHALL BE INSTALLED ON EXISTING LEVEL GRADE.
2. TRAFFIC SHALL NOT BE PERMITTED TO CROSS COMPOST FILTER SOCKS.
3. ACCUMULATED SEDIMENT SHALL BE REMOVED WHEN IT REACHES 1/2 THE ABOVE GROUND HEIGHT.
4. INSPECT COMPOST FILTER SOCKS WEEKLY AND AFTER EACH RUNOFF EVENT. DAMAGED SOCKS SHALL BE REPLACED OR REPAIRED WITHIN 24 HOURS.
5. BIODEGRADABLE COMPOST FILTER SOCKS SHALL BE REPLACED AFTER 6 MONTHS. PHOTODEGRADABLE COMPOST FILTER SOCKS SHALL BE REPLACED AFTER 1 YEAR.
6. REMOVE COMPOST FILTER SOCKS UPON PERMANENT STABILIZATION OF TRIBUTARY AREA. THE COMPOST FILTER SOCKS SHALL BE REMOVED OR VEGETATED.

#### COMPOST FILTER SOCK DETAIL

NOT TO SCALE



NOTE: THE SILTSACK WILL BE MANUFACTURED FROM A WOVEN POLYPROPYLENE FABRIC THAT MEETS OR EXCEEDS THE FOLLOWING SPECIFICATIONS.

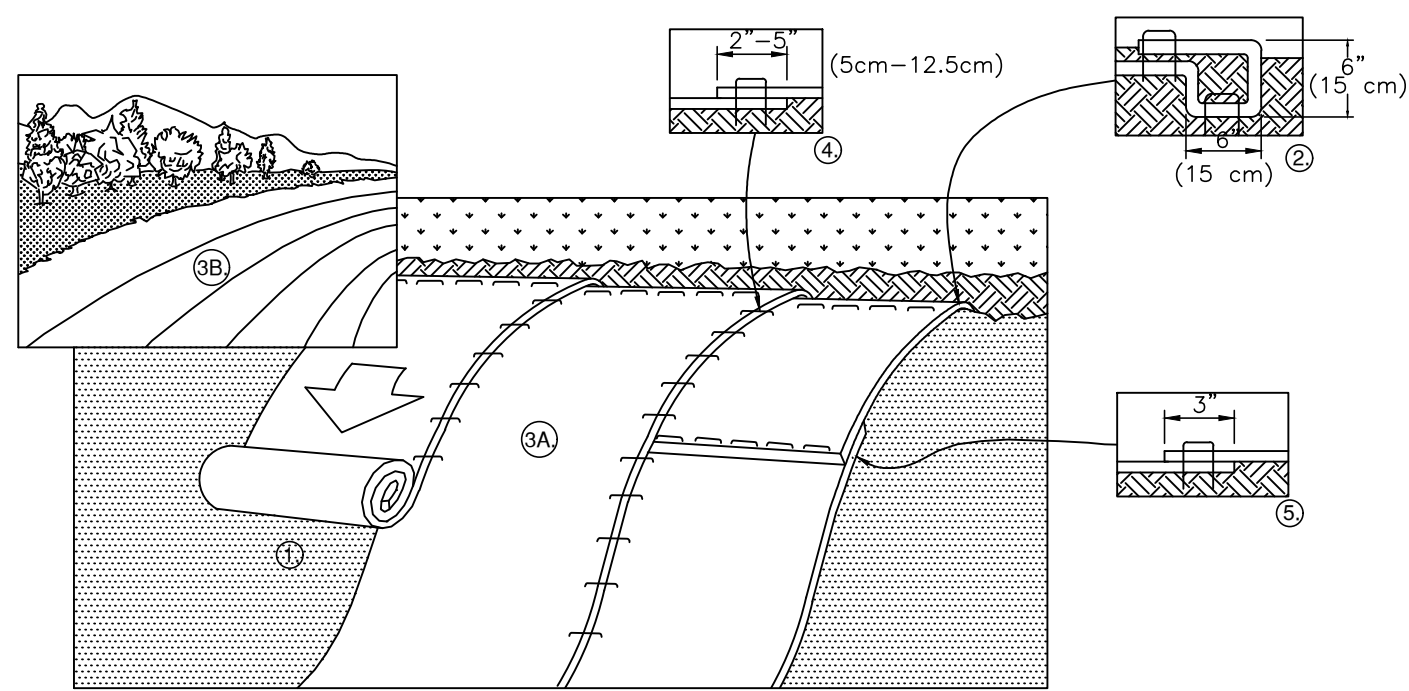
#### REGULAR FLOW SILTSACK ®

PROPERTIES	TEST METHOD	UNITS
GRAB TENSILE STRENGTH	ASTM D-4632	300 LBS
GRAB TENSILE ELONGATION	ASTM D-4632	20 %
PUNCTURE	ASTM D-4833	120 LBS
MULLEN BURST	ASTM D-3786	800 PSI
TRAPEZOID TEAR	ASTM D-4533	120 LBS
UV RESISTANCE	ASTM D-4355	80 %
APPARENT OPENING SIZE	ASTM D-4751	40 US SIEVE
FLOW RATE	ASTM D-4491	40 GAL/MIN/SQ FT
PERMITTIVITY	ASTM D-4491	0.55 SEC -1

SILTSACK INLET PROTECTION DEVICE SHALL BE INSTALLED WHERE SHOWN ON THE PLAN. INLET PROTECTION SHALL BE INSPECTED AFTER ANY RAINFALL OR SNOWMELT RUNOFF EVENT TO ENSURE PROPER FUNCTIONING. SILTSACK DEVICES SHALL BE REPLACED IN KIND OR REMOVED AND CLEANED AS REQUIRED TO ENSURE PROPER FUNCTIONING. SILTSACK SHOULD NOT EVER BE OVER HALF FULL OF SEDIMENT. INLET PROTECTION OTHER THAN THE SILTSACK MUST BE CLEARED OF SEDIMENT FOLLOWING EACH RUNOFF EVENT.

#### INLET PROTECTION DETAIL

NOT TO SCALE

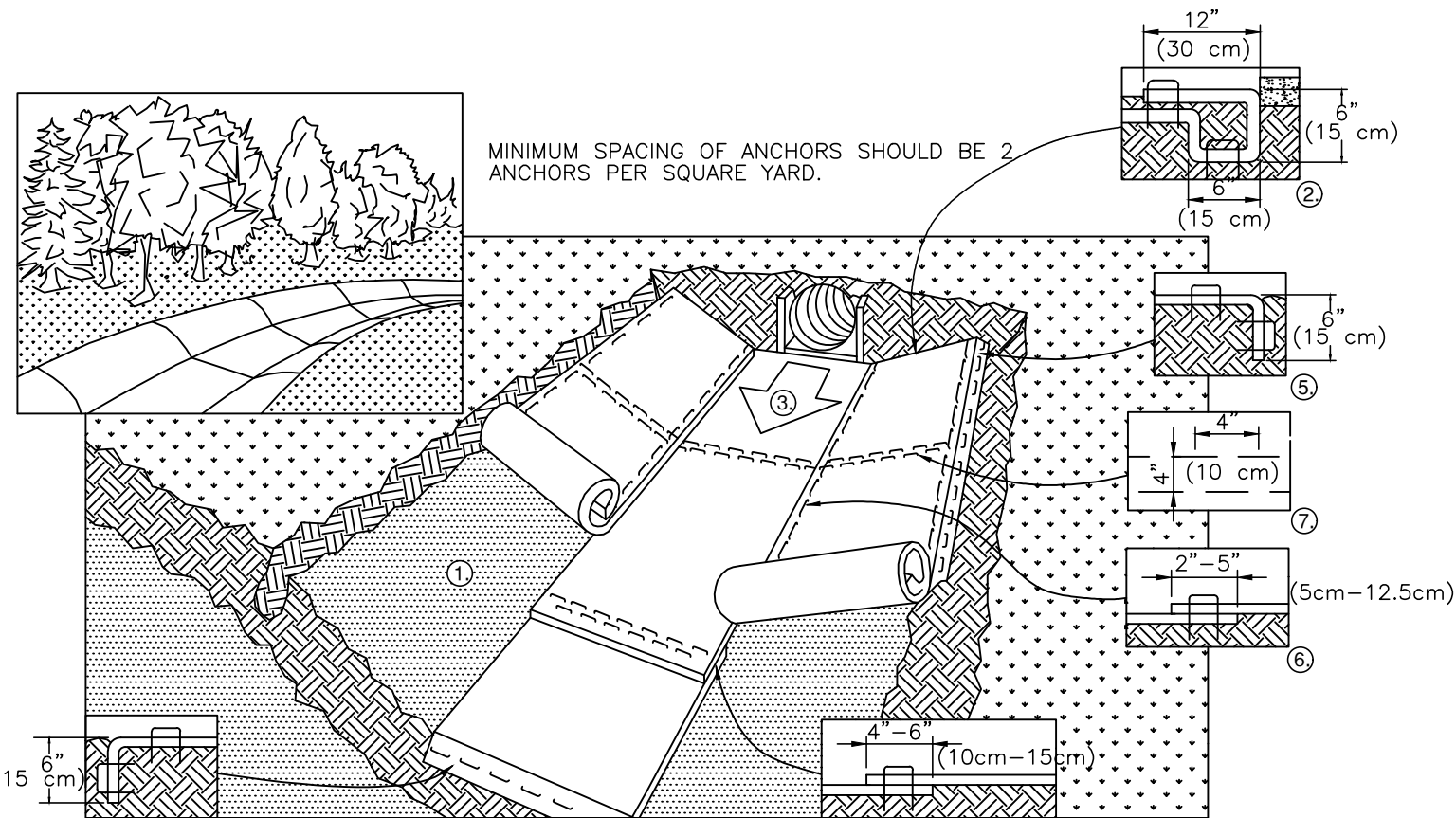


#### NOTES:

1. IN LOOSE SOIL CONDITIONS, THE USE OF STAPLE OR STAKE LENGTHS GREATER THAN 6" (15cm) MAY BE NECESSARY TO PROPERLY SECURE THE BLANKETS.
2. EROSION CONTROL BLANKET SHALL BE NORTH AMERICAN GREEN S150BN, OR EQUIVALENT.

#### SLOPE INSTALLATION OF EROSION CONTROL BLANKET DETAIL

NOT TO SCALE



#### NOTES:

- \* HORIZONTAL STAPLE SPACING SHOULD BE ALTERED IF NECESSARY TO ALLOW STAPLES TO SECURE THE CRITICAL POINTS ALONG THE CHANNEL SURFACE.
- \*\* IN LOOSE SOIL CONDITIONS, THE USE OF STAPLE OR STAKE LENGTHS GREATER THAN 6" (15 CM) MAY BE NECESSARY TO PROPERLY ANCHOR THE BLANKETS.
- \*\*\* INSTALLATION OF TRM'S IN FLOW CHANNEL REQUIRE AT LEAST 2 ANCHORS PER SQUARE YARD.

#### CHANNEL INSTALLATION OF EROSION CONTROL BLANKET DETAIL

NOT TO SCALE

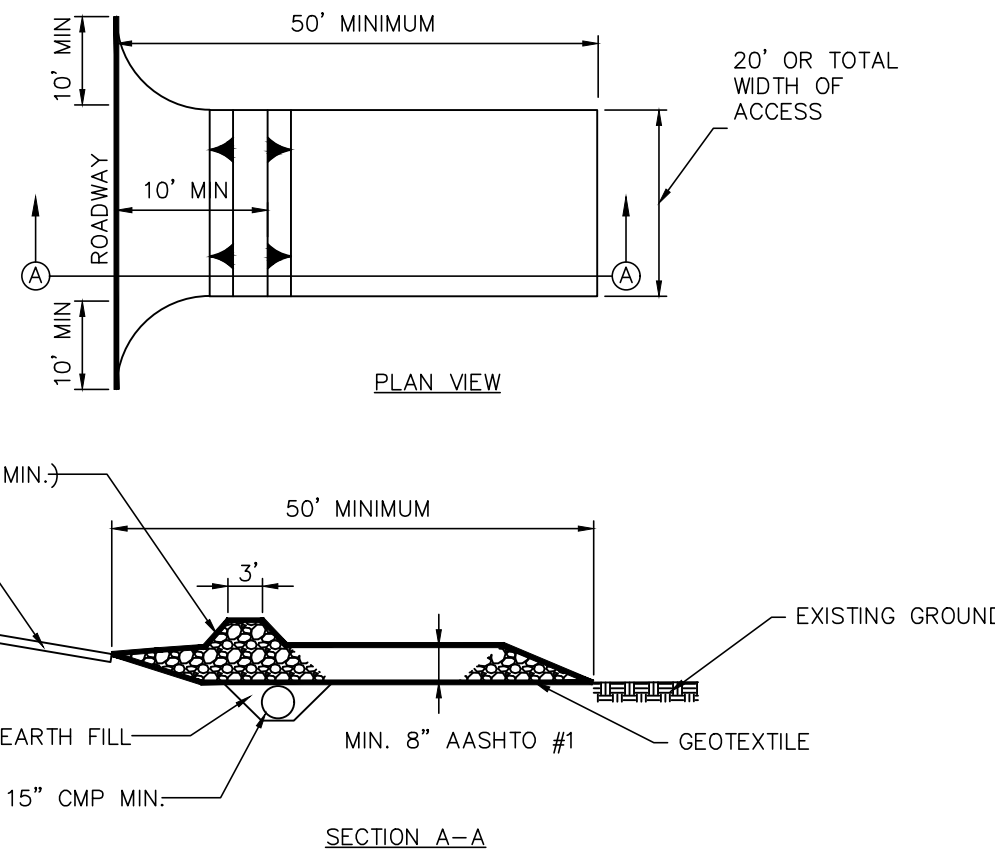
STANDARD E&S WORKSHEET #1 Compost Filter Socks					
PROJECT NAME: Loyalsock Twp School District - Proposed Acc. Parking Lot					
LOCATION: Lycoming County, PA					
PREPARED BY: RCH			DATE: 11/1/2024		
CHECKED BY: RCH			DATE: 11/1/2024		
SOCK NO.	DIA. (in)	LOCATION	EXISTING SLOPE PERCENT / SLOPE LENGTH (FT)	PROPOSED SLOPE PERCENT / SLOPE LENGTH (FT)	REPLACEMENT DIA. (IN)
FS 1	12	REFER TO E&S PLAN	1.2 / 245	33 / 14	12
FS 2	12	REFER TO E&S PLAN	1.3 / 250	26.0 / 14	12
FS 3	12	REFER TO E&S PLAN	1.7 / 135	18.0 / 10	12
FS 4	12	REFER TO E&S PLAN	1.3 / 104	4.7 / 17	12
1. ONCE ROUGH GRADING HAS BEEN COMPLETED MANY OF THE SLOPE LENGTHS MAY BE SIGNIFICANTLY REDUCED. SHOULD ANY OF THE FILTER SOCKS BECOME UNSERVICABLE AFTER THE SITE HAS BEEN ROUGH GRADED, REFER TO THE "REPLACEMENT DIA." COLUMN OF THE TABLE ABOVE TO DETERMINE THE REQUIRED REPLACEMENT SIZE.					
2. STACKED SOCK MAY BE SUBSTITUTED FOR A SINGLE ROW OF LARGE DIAMETER SOCK. ALTERNATE EQUIVALENTS SHALL BE ACCORDING TO MANUFACTURERS SPECIFICATIONS.					

#### COMPOST FILTER SOCK SIZING CHART

NOT TO SCALE

#### DIRECTIONS:

1. REMOVE ALL EXISTING VEGETATION WHERE BLANKET IS TO BE INSTALLED. PREPARE SOIL BEFORE INSTALLING BLANKETS, INCLUDING ANY NECESSARY APPLICATION OF LIME, FERTILIZER, AND SEED. NOTE: WHEN USING CELL-O-SEED DO NOT SEED PREPARED AREA. CELL-O-SEED MUST BE INSTALLED WITH PAPER SIDE DOWN.
2. BEGIN AT THE TOP OF THE SLOPE BY ANCHORING THE BLANKET IN A 6" (15cm) DEEP X 6" (15cm) WIDE TRENCH WITH APPROXIMATELY 12" (30cm) OF BLANKET EXTENDED BEYOND THE UP-SLOPE PORTION OF THE TRENCH. ANCHOR THE BLANKET WITH A ROW OF STAPLES/STAKES APPROXIMATELY 12" (30cm) APART IN THE BOTTOM OF THE TRENCH. BACKFILL AND COMPACT THE TRENCH AFTER STAPLING. APPLY SEED TO COMPACTED SOIL AND FOLD REMAINING 12" (30cm) PORTION OF BLANKET BACK OVER SEED AND COMPACTED SOIL. SECURE BLANKET OVER COMPACTED SOIL WITH A ROW OF STAPLES/STAKES SPACED APPROXIMATELY 12" (30cm) APART ACROSS THE WIDTH OF THE BLANKET.
3. ROLL THE BLANKETS (A.) DOWN OR (B.) HORIZONTALLY ACROSS THE SLOPE. BLANKETS WILL UNROLL WITH APPROPRIATE SIDE AGAINST THE SOIL SURFACE. ALL BLANKETS MUST BE SECURELY FASTENED TO SOIL SURFACE BY PLACING STAPLES/STAKES IN APPROPRIATE LOCATIONS AS SHOWN IN THE STAPLE PATTERN GUIDE. WHEN USING OPTIONAL DOT SYSTEM, STAPLES/STAKES SHOULD BE PLACED THROUGH EACH OF THE COLORED DOTS CORRESPONDING TO THE APPROPRIATE STAPLE PATTERN.
4. THE EDGES OF PARALLEL BLANKETS MUST BE STAPLED WITH APPROXIMATELY 2"-5" (5cm-12.5cm) OVERLAP DEPENDING ON BLANKET TYPE. TO ENSURE PROPER SEAM ALIGNMENT, PLACE THE EDGE OF THE OVERLAPPING BLANKET (BLANKET BEING INSTALLED ON TOP) EVEN WITH THE COLORED SEAM STITCH ON THE PREVIOUSLY INSTALLED BLANKET.
5. CONSECUTIVE BLANKETS SPICED DOWN THE SLOPE MUST BE PLACED END OVER END (SHINGLE STYLE) WITH AN APPROXIMATE 3" (7.5cm) OVERLAP. STAPLE THROUGH OVERLAPPED AREA, APPROXIMATELY 12" (30cm) APART ACROSS ENTIRE BLANKET WIDTH.

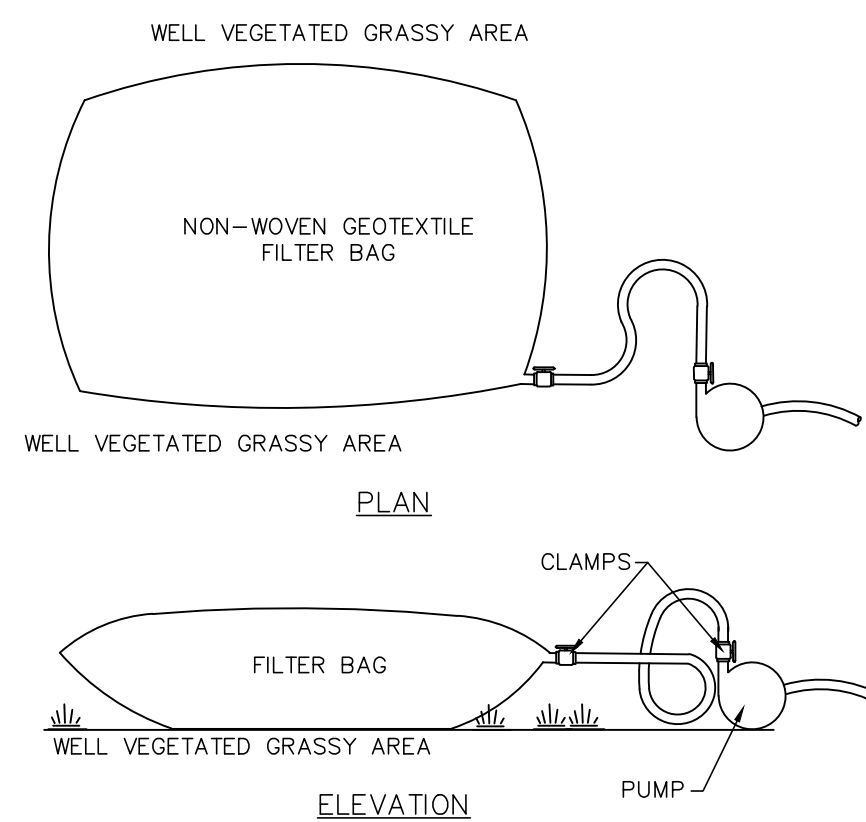


#### MAINTENANCE:

THE STABILIZED CONSTRUCTION ENTRANCE SHALL BE INSTALLED WHERE SHOWN ON THE PLAN. THE ENTRANCE SHALL BE INSPECTED WEEKLY AND ADDITIONAL AASHTO #1 STONE SHALL BE KEPT ON SITE SO THAT THE MINIMUM DIMENSIONS CAN BE MAINTAINED THROUGHOUT THE PROJECT. SEDIMENT TRACKED ONTO A PUBLIC ROADWAY SHALL BE REMOVED AT THE END OF EACH CONSTRUCTION DAY AND PLACED ON THE TOPSOIL STOCKPILE. NO OTHER ENTRANCE SHALL BE USED TO GAIN ACCESS TO THE SITE BY ANY CONSTRUCTION, PERSONAL OR DELIVERY VEHICLES.

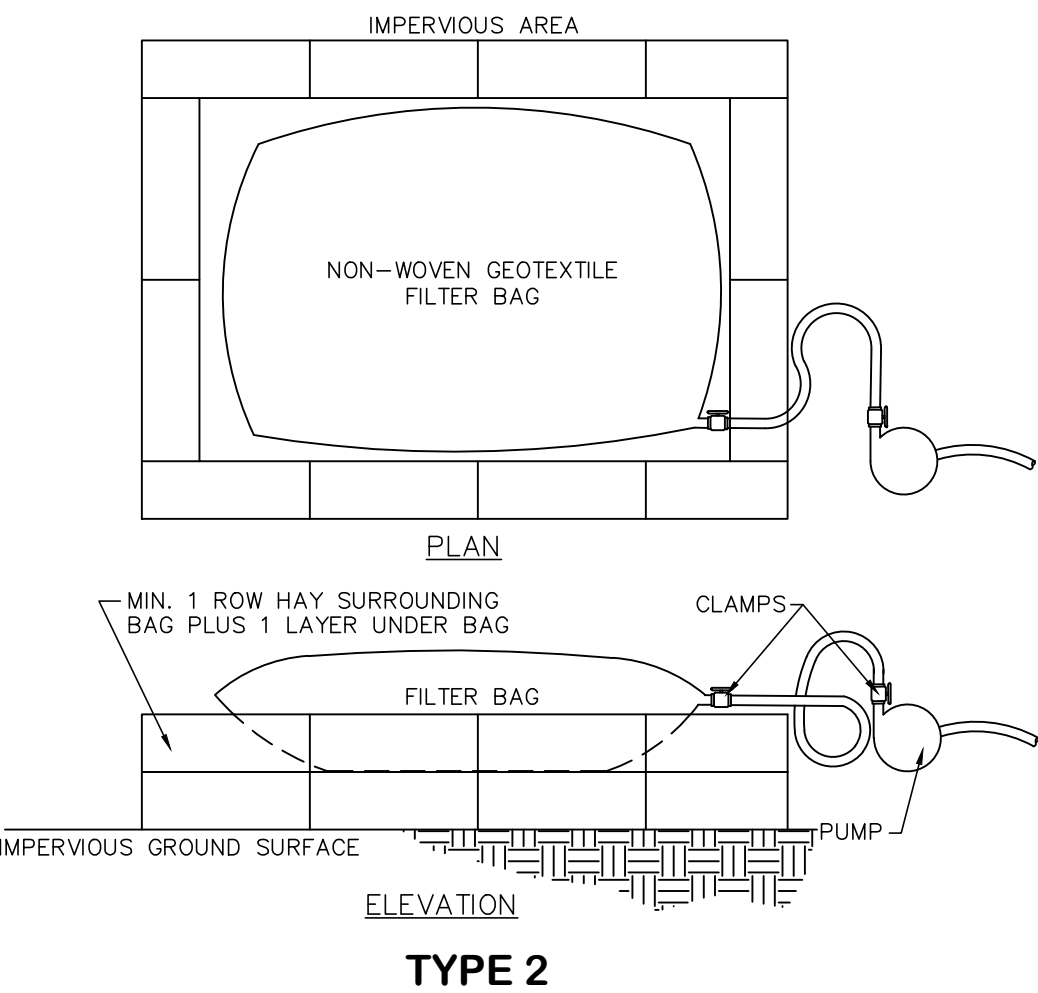
#### ROCK CONSTRUCTION ENTRANCE WITH CROSS-PIPE DETAIL

NOT TO SCALE



#### NOTES:

1. FILTER BAG SHALL TRAP PARTICLES LARGER THAN 150 MICRONS.
2. THE PUMPING RATE FOR ANY FILTER BAG SHALL NOT EXCEED 0.5 THE DESIGN MAXIMUM.
3. ALL FILTER BAGS AND TRAPPED SEDIMENT SHALL BE REMOVED TO A SUITABLE WASTE AREA WHEN ACCUMULATED SEDIMENT REACHES 0.5 TOTAL BAG CAPACITY.
4. FILTER BAGS SHALL NOT BE PLACED ON ANY SLOPE GREATER THAN 5%.
5. WHERE GRASSY VEGETATIVE COVER IS NOT AVAILABLE, TYPE 2 SHOULD BE USED.



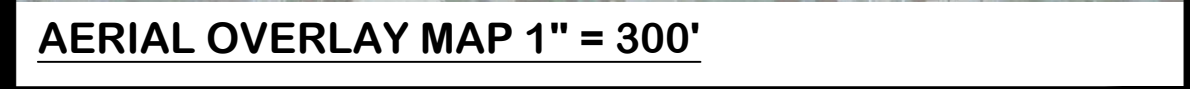
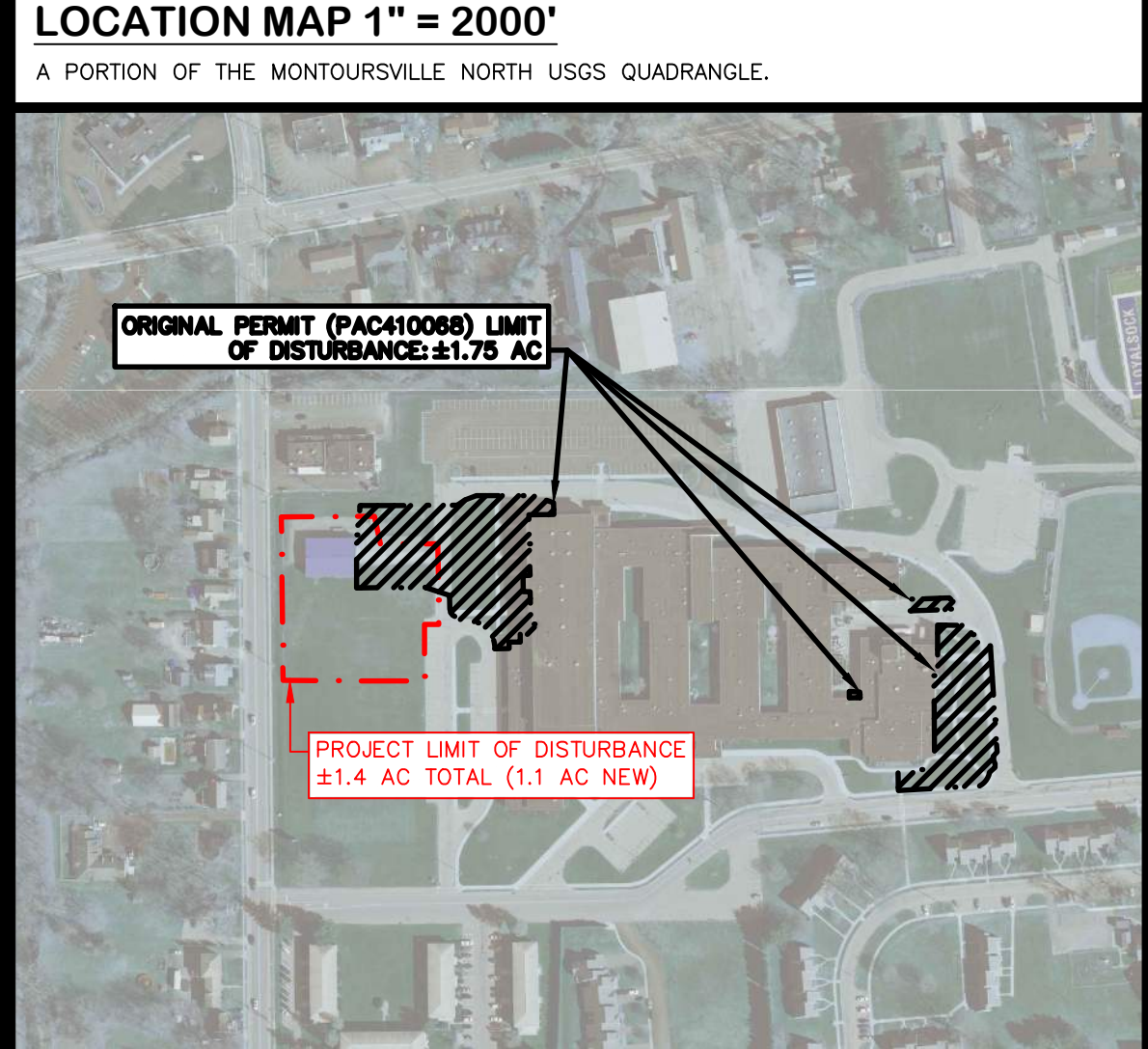
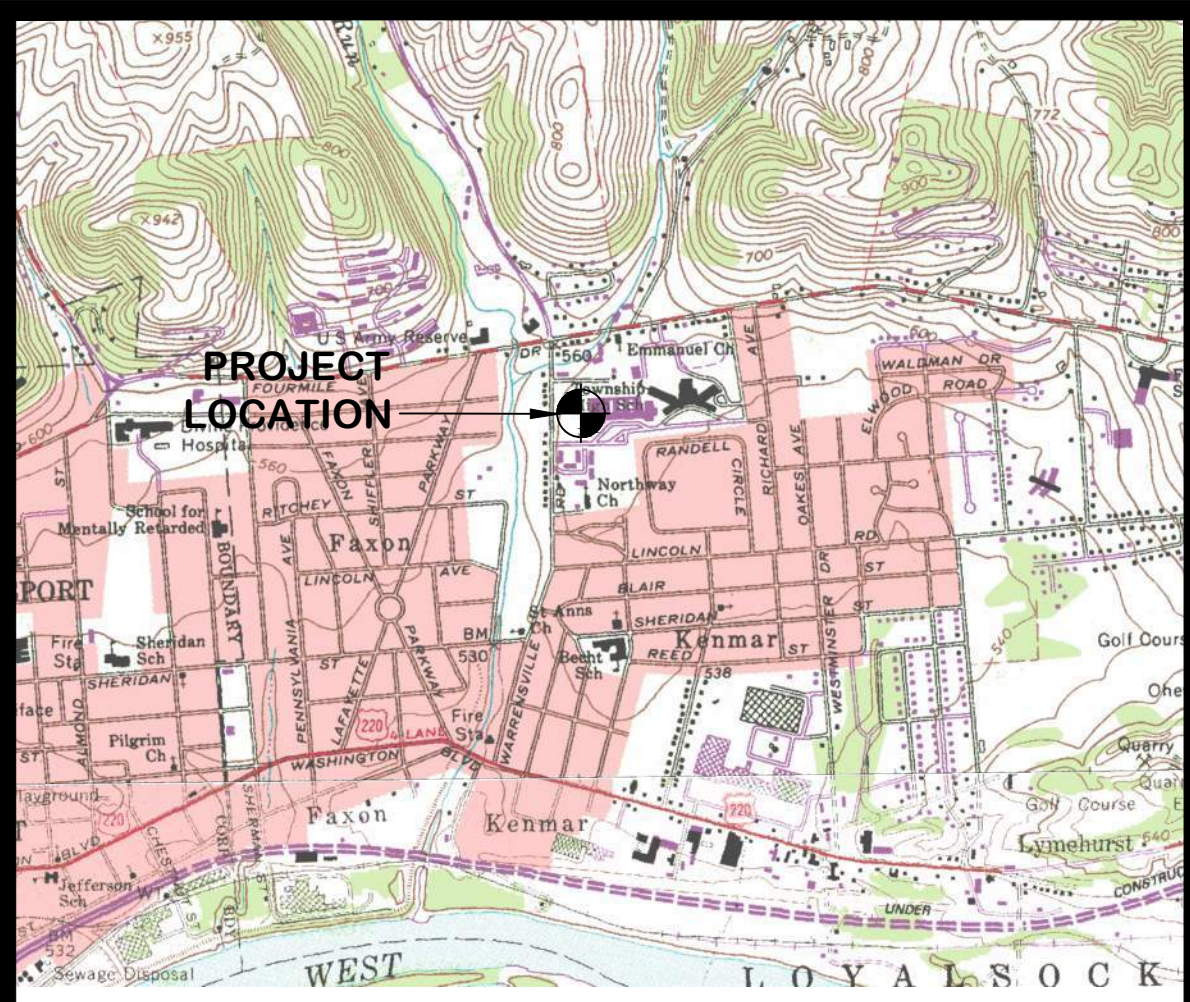
#### TYPE 2

RCH	TWP. ENGINEER COMMENT REV.	12/19/24	DATE	REVISION	REV. BY
RCH	LCDD COMMENT REV.	1/08/25			
LOCATION	OWNER	SCALE	DESIGN	DRAWN	
LOYALSOCK TWP. LYCOMING COUNTY, PA	LOYALSOCK TWP. JOINT JR/SP HIGH SCHOOL	AS NOTED	RCH	RCH	
<b>E&amp;S NOTES &amp; DETAILS</b>					
LAND DEVELOPMENT PLANS FOR PROPOSED ACCESSORY PARKING LOT ON LANDS OF LOYALSOCK TWP. JOINT JR / SR HIGH SCHOOL LOYALSOCK TOWNSHIP, LYCOMING COUNTY					
Eastern Region: 2801 Canfield Lane, Montoursville, PA 17754 www.hawbakengineering.com					
DATE: NOVEMBER 20, 2024					
JOB NUMBER: 24908					
SHEET NUMBER: ES 3					

PLOTTED: January 08, 2025 - 2:54pm (10:02) FILENAME: F:\Projects\2024\_MTY PROJECTS\24908\_LTSO\_PARKING LOT WEST\DWG\LOYALSOCK SD PL ES08 1.dwg LAYOUT: ES-3



**POST CONSTRUCTION STORMWATER  
MANAGEMENT PLAN  
FOR  
LOYALSOCK TWP. JOINT  
JR/SR HIGH SCHOOL  
PROPOSED ACCESSORY PARKING LOT  
LOYALSOCK TOWNSHIP, LYCOMING COUNTY, PA**



**GENERAL NOTES:**

1. THE EXISTING SURVEY WAS PERFORMED AND PREPARED BY HAWBAKER ENGINEERING, LLC.
2. TOPOGRAPHICAL DATA WAS PROVIDED BY HAWBAKER ENGINEERING, LLC AND SUPPLEMENTED BY PENNSYLVANIA SPATIAL DATA ACCESS (PASDA) LIDAR.
3. THE PROJECT LOCATION IS EAST OF THE NORTH ZONE, VERTICAL DATUM IS NAVD83 UNLESS OTHERWISE SPECIFIED ON THE PLANS.
4. SUBJECT PROPERTY BOUNDARY SHOWN AS PRESCRIBED BY DEED AND FIELD OBSERVED MONUMENTATION. ADJOINING PROPERTY BOUNDARIES SHOWN PER PLOT PARCELS.
5. ACCESS TO THE SITE WILL BE MADE VIA EXISTING PAVEMENT ROAD WHICH INTERSECTS WITH LOYALSOCK DRIVE (T-645).
6. SEWER SERVICE - NO PROPOSED CHANGES TO EXISTING.
7. WATER SERVICE - NO PROPOSED CHANGES TO EXISTING.
8. STORMWATER MANAGEMENT FACILITIES HAVE BEEN DESIGNED TO CREATE NO INCREASE IN THE RATE OF STORMWATER RUNOFF BY PROVIDING CONTROLLED RELEASE AND REDUCED FLOOD RISK TO THE ADJACENT PROPERTY. ADDITIONAL MITIGATION FOR SEVERE STORM EVENTS IS REQUIRED DUE TO MILLERS RUN IMPAIRMENT CRITERIA AND HAS BEEN ACHIEVED.
9. THE PROPERTY OWNER WILL BE RESPONSIBLE FOR THE MAINTENANCE AND ENSURE THE STORMWATER MANAGEMENT FACILITIES OPERATE AS DESIGNED.
10. THE PROPERTY IS NOT LOCATED WITHIN THE DELINEATED FLOODWAY / FLOODPLAIN (FEMA PANEL 420801CS3586, DATED 06/02/2016).
11. ACCORDING TO THE NATIONAL WETLAND INVENTORY, NO ENVIRONMENTAL SENSITIVE AREAS ARE LOCATED WITHIN THE PROJECT LIMIT OF DISTURBANCE.
12. RECORD (AS-BUILT) DRAWINGS WILL BE SUBMITTED BY THE APPLICANTS / DEVELOPERS PROFESSIONAL ENGINEER OR PROFESSIONAL LAND SURVEYOR FOR ALL STORMWATER FACILITIES PRIOR TO CONSTRUCTION OF THE PROJECT. THE LOYALSOCK TOWNSHIP RESERVES THE RIGHT TO AUTHORIZE THE MUNICIPAL ENGINEER TO REVIEW SAID RECORD DRAWING.
13. LOCATIONS OF UNDERGROUND UTILITIES SHOWN ARE BASED ON VISIBLE ABOVE GROUND UTILITIES AND AVAILABLE MAPPING PROVIDED TO THE PROJECT OFFICE. CONTRACTOR SHALL NOTIFY THE PA ONE CALL SYSTEM NOT LESS THAN THREE (3) DAYS PRIOR TO CONSTRUCTION. THE ONE CALL SYSTEM WILL NOTIFY THE PUBLIC UTILITIES IN THE AREA. PUBLIC UTILITIES WILL THEN COORDINATE DIRECTLY WITH THE CONTRACTOR.
14. THE PROJECT LOCATION IS WITHIN THE STORMWATER MANAGEMENT BMP(S) OF THE TOWNSHIP. PROVIDE RATE AND VOLUME/WATER QUALITY CONTROL FOR THE PROJECT AREA. IT SHALL BE THE RESPONSIBILITY OF THE SITE WORK CONTRACTOR TO COORDINATE THE CONSTRUCTION OF STORMWATER BMP(S) WITH THE DESIGN ENGINEER OR DESIGNER. THE SITE WORK CONTRACTOR SHALL PROVIDE NOTICE TO THE ENGINEER AND/OR DESIGNER 7 DAYS NOTICE PRIOR TO THE INSTALLATION OF STORMWATER BMP(S).
15. ALL SURFACE WATER FROM THE SITE DRAINS TO AN UNNAMED TRIBUTARY OF MILLERS RUN WHICH IS BOTH CLASSIFIED (DES. USE) AS WARM WATER FISHES (WWF) AND SUPPORTS A HIGH QUALITY FISH HABITAT. THE PROJECT WILL NOT BE A SOURCE OF LARGE FLOWS FROM MILLERS RUN IS RECEIVED DIRECTLY BY THE WEST BRANCH SUSQUEHANNA RIVER.
16. THE PROPOSED PROJECT RESULTS IN A DISTURBANCE AREA OF GREATER THAN 1 ACRE AND WILL REQUIRE AN NPDES PERMIT. AS THE PROPERTY ALREADY HAS AN ACTIVE NPDES PERMIT, THE PROJECT WILL NOT REQUIRE AN ADDITIONAL NPDES PERMIT.
17. THE PROJECT IS CONSIDERED AS AN IMPORT SITE. ANY IMPORTED MATERIAL SHALL BE CLEAN FILLS AS DEFINED BY THIS PLAN, SHEET ES 2.
18. IMPROVEMENTS TO BE MADE WITHIN THE PROJECT SHALL CONSTITUTE THE ENTIRE SCOPE OF WORK TO BE COMPLETED. NO OTHER IMPROVEMENTS ARE PROPOSED AND / OR APPROVED AS A PART OF THIS LAND DEVELOPMENT PLAN.

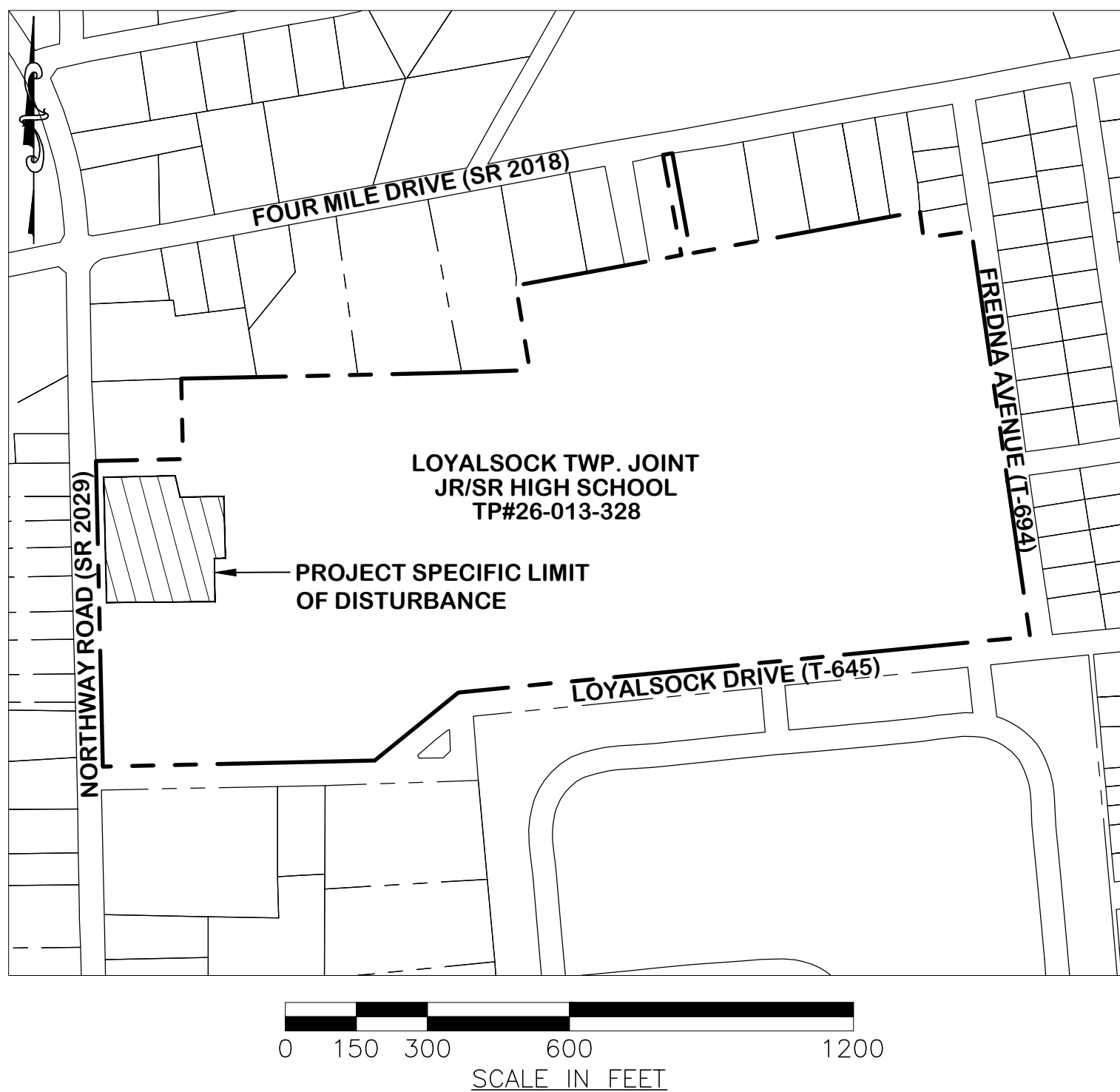
**PROJECT NARRATIVE:**

LOYALSOCK TWP. SCHOOL DISTRICT IS PROPOSING THE CONSTRUCTION OF AN ACCESSORY PARKING LOT ON PRIVATE LANDS (TAX PARCEL #26-013-328) IN LOYALSOCK TOWNSHIP, LYCOMING COUNTY. THE PROPERTY IS THE LOCATION OF THE JOINT JUNIOR/SENIOR HIGH SCHOOL AND IS LOCATED ALONG NORTHWAY ROAD (SR 2029) AND LOYALSOCK DRIVE (T-645). ACCESS TO THE SITE WILL BE VIA AN EXISTING PRIVATE ROAD THAT INTERSECTS WITH LOYALSOCK DRIVE.

IMPROVEMENTS WILL CONSIST OF GRADING OPERATIONS, PARKING LOT CONSTRUCTION, LIGHTING, LANDSCAPING AND THE INSTALLATION OF ASSOCIATED STORMWATER MANAGEMENT FACILITIES TO MITIGATE THE INCREASE IN STORMWATER RUNOFF AS THE RESULT OF INCREASED IMPERVIOUS COVER). NO CHANGES TO EXISTING WATER/SEWER SERVICES ARE REQUIRED OR PROPOSED.

THE SITE IS CURRENTLY ZONED R-1 (RESIDENTIAL 1 DISTRICT) WHICH LISTS PUBLIC SCHOOLS AS A PERMITTED USE (§215-52.D). NO CHANGE IN USE IS PROPOSED.

AN NPDES PERMIT WILL BE REQUIRED FOR THIS PROJECT AS DISTURBANCE WILL BE GREATER THAN 1 ACRE. A MAJOR PERMIT MODIFICATION WILL BE MADE TO THE EXISTING/ACTIVE NPDES PERMIT (PAC410068).



### SITE DATA:

TRACT OWNER:	LOYALSOCK TWP. JOINT JR/SR HIGH SCHOOL 2101 LOYALSOCK DRIVE WILLIAMSPORT, PA 17701
INTERESTED PARTY:	OWNER
DEVELOPER:	OWNER
SOURCE OF TITLE:	DEED BOOK 0512-0058
TAX PARCEL ID#:	26-013--328
ZONING:	R-1 - RESIDENTIAL 1 DISTRICT
EXISTING USE:	PUBLIC SCHOOL (8215-52.D (LISTED AS PERMITTED USE)
PROPOSED USE:	NO CHANGE TO EXISTING (LISTED AS PERMITTED USE)

MIN. LOT AREA:	REQUIRED: 12,500 SF.	PROVIDED: ±36.4 AC.
MIN. LOT WIDTH:	100 FT.	±615 FT.
MAX. BUILDING HEIGHT:	35 FT.	N.A. (NO CHANGE TO EXISTING)
MAX. BUILDING COVERAGE:	30%	N.A. (NO CHANGE TO EXISTING)
BUILDING SETBACKS:	REQUIRED: 30 FT.	N.A. (NO CHANGE TO EXISTING)
FRONT SETBACKS:	20 FT. (COMBINED)	
	8 FT. (MIN. ON ONE SIDE)	
REAR SETBACKS:	30 FT.	
	5 FT. (FROM ROW)	
PARKING AREA SETBACKS:		

## ACT 287 INFORMATION

COMPANY: UGI UTILITIES INC.  
ADDRESS: 1 UGI DRIVE  
WILKES BARRE, PA 18711  
CONTACT: AMANDA NIXON  
EMAIL: anixon@ugi.com  
PHONE: 570-829-9887

COMPANY: LOYALSOCK TOWNSHIP  
ADDRESS: 2501 EAST THIRD ST  
WILLIAMSPORT, PA. 17701  
CONTACT: TONY STOPPER  
EMAIL: [tony@loyalsocktownship.org](mailto:tony@loyalsocktownship.org)  
PHONE: 570-323-3615

COMPANY: PPL ELECTRIC UTILITIES CORPORATION  
ADDRESS: 437 BLUE CHURCH RD  
PAXINOS, PA. 17860  
CONTACT: DOUG HAUPT  
EMAIL: dlhaupt@pplweb.com  
PHONE: 570-490-0568

COMPANY: ENERGY TRANSFER  
ADDRESS: 1300 MAIN ST  
HOUSTON, TX. 77002  
CONTACT: SAUL SHAW  
EMAIL: [saul.shaw@energytransfer.com](mailto:saul.shaw@energytransfer.com)  
PHONE: 713-989-9734

COMPANY: COMCAST  
ADDRESS: 336 PENN ST  
WILLIAMSPORT, PA. 17701  
CONTACT: TIM CRISWELL  
EMAIL: timothy\_criswell@cable.comcast.com  
PHONE: 570-279-9073

COMPANY: WILLIAMSPORT SANITARY AUTHORITY  
ADDRESS: 253 W FOURTH ST  
WILLIAMSPORT, PA. 17701  
CONTACT: NOAH CAPUTO  
EMAIL: [ncaputo@wmwa-wsa.org](mailto:ncaputo@wmwa-wsa.org)  
PHONE: 570-323-3614EXT. 142

COMPANY: WILLIAMSPORT MUNI WTR AUTH  
ADDRESS: 253 W 4TH ST  
WILLIAMSPORT, PA. 17701  
CONTACT: IAN MOWATT  
EMAIL: imowatt@wmwa-wsa.org  
PHONE: 570-323-3614EXT. 143

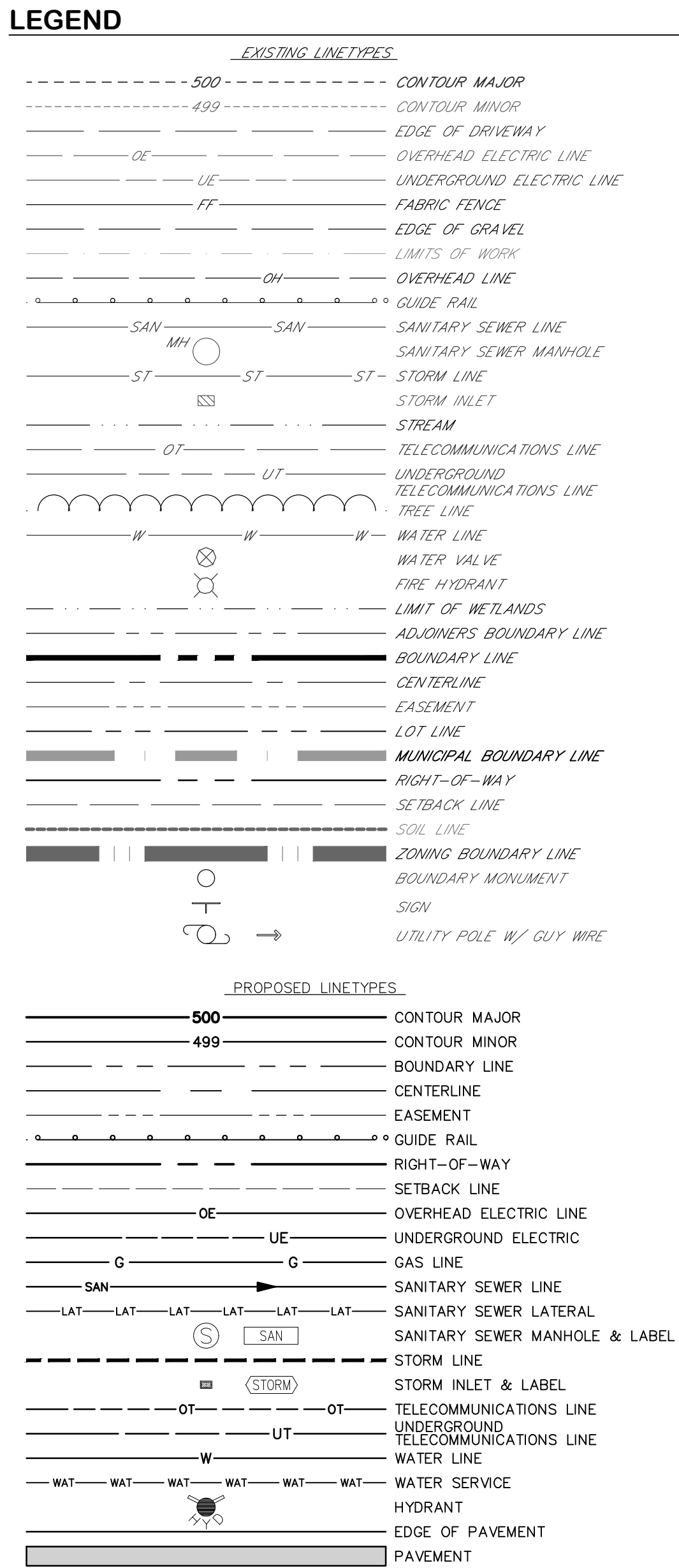
**SITE ADDRESS:**

2101 LOYALSOCK DRIVE WILLIAMSPORT, PA 17701

## SHEET INDEX

CS 1	PCSM COVER SHEET
EX 1	EXISTING CONDITIONS/DEMO PLAN
SP 1	OVERALL SITE PLAN
GP 1	GRADING & UTILITY PLAN
CD 1	CONSTRUCTION DETAILS
PC 1	PCSM PLAN
PC 2	PCSM NOTES & DETAILS

## SUPPLEMENTAL SHEETS



**PROHIBITED DISCHARGES AND CONNECTIONS:**

AS PER LOYALSOCK TOWNSHIP STORMWATER MANAGEMENT ORDINANCE:

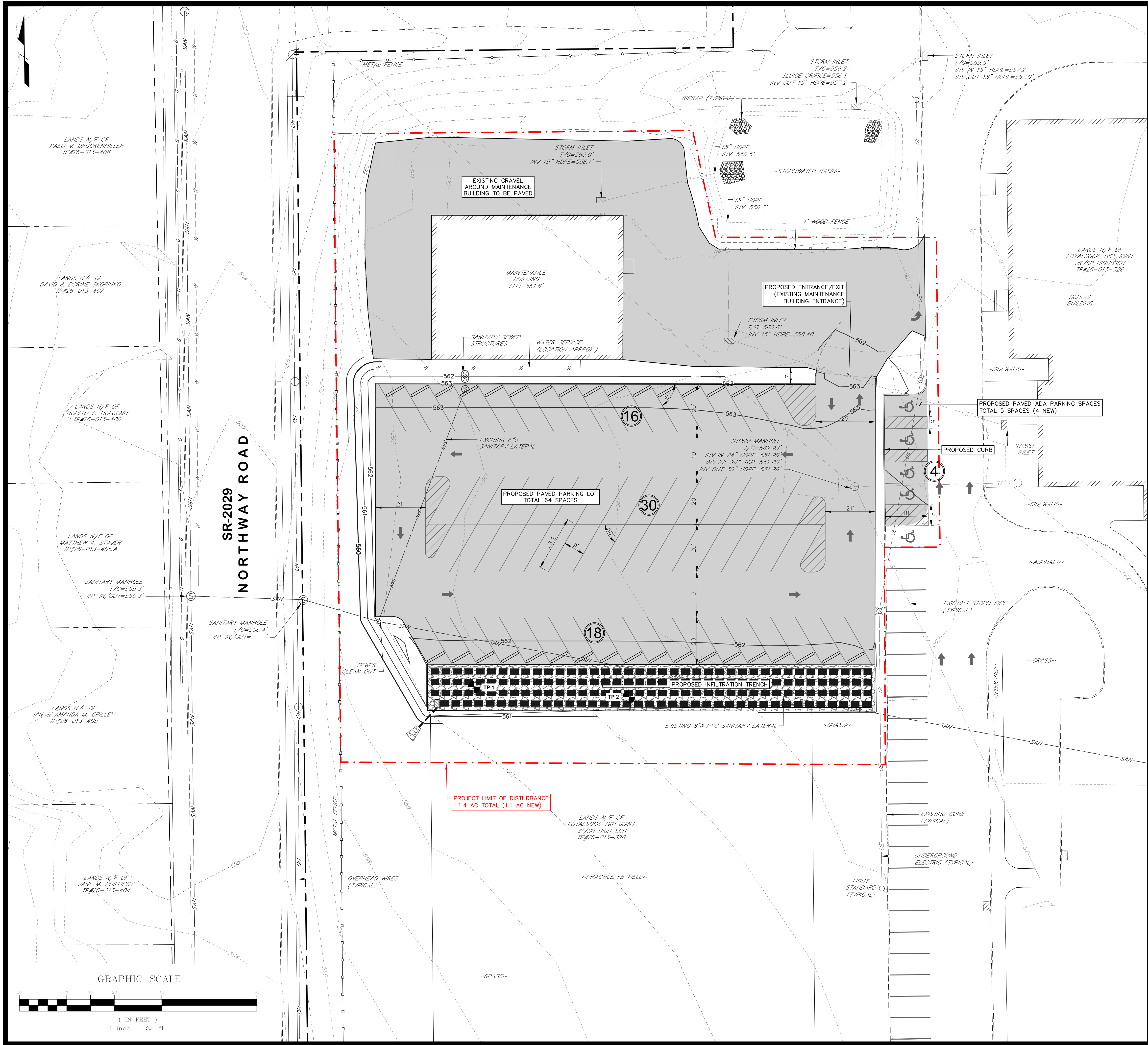
- NO PERSON IN THE MUNICIPALITY SHALL ALLOW, OR CAUSE TO ALLOW, STORMWATER DISCHARGES INTO THE MUNICIPALITY'S SEPARATE STORM SEWER SYSTEM WHICH ARE NOT COMPOSED ENTIRELY OF STORMWATER, EXCEPT:
1. AS PROVIDED IN SUBSECTION B BELOW; AND
  2. DISCHARGES ALLOWED UNDER A STATE OR FEDERAL PERMIT.
- B. DISCHARGES WHICH MAY BE ALLOWED, BASED ON A FINDING BY THE MUNICIPALITY THAT THE DISCHARGES DO NOT SIGNIFICANTLY CONTRIBUTE TO POLLUTION TO SURFACE WATERS OF THE COMMONWEALTH, ARE:
1. DISCHARGES FROM FIRE-FIGHTING ACTIVITIES.
  2. POTABLE WATER SOURCES, INCLUDING DECHLORINATED WATER LINE AND FIRE HYDRANT FLUSHINGS.
  3. IRRIGATION DRAINAGE.
  4. ROUTINE EXTERNAL BUILDING WASHDOWN (WHICH DOES NOT USE DETERGENTS OR OTHER COMPOUNDS).
  5. AIR CONDITIONING CONDENSATE.
  6. WATER FROM INDIVIDUAL RESIDENTIAL CAR WASHING.
  7. SPRINGS.
  8. WATER FROM BASEMENT OR CRAWL SPACE PUMPS.
  9. UNCONTAMINATED WATER FROM FOUNDATION OR FROM FOOTING DRAINS.
  10. FLOWS FROM RIPARIAN HABITATS AND WETLANDS.
  11. LAWN WATERING.
  12. PAVEMENT WASHWATERS WHERE SPILLS OR LEAKS OF TOXIC OR HAZARDOUS MATERIALS HAVE NOT OCCURRED (UNLESS ALL SPILL MATERIAL HAS BEEN REMOVED) AND WHERE DETERGENTS ARE NOT USED.
  13. DECHLORINATED SWIMMING POOL DISCHARGES.
  14. UNCONTAMINATED GROUNDWATER.
- C. IN THE EVENT THAT THE MUNICIPALITY DETERMINES THAT ANY OF THE DISCHARGES IDENTIFIED IN SUBSECTION B SIGNIFICANTLY CONTRIBUTE TO POLLUTION OF WATERS OF THE COMMONWEALTH, OR IS SO NOTIFIED BY DEP, THE MUNICIPALITY WILL NOTIFY THE RESPONSIBLE PERSON TO CEASE THE DISCHARGE.
- D. UPON NOTICE PROVIDED BY THE MUNICIPALITY UNDER SUBSECTION C, THE DISCHARGER WILL HAVE A REASONABLE TIME, AS DETERMINED BY THE MUNICIPALITY, TO CEASE THE DISCHARGE CONSISTENT WITH THE DEGREE OF POLLUTION CAUSED BY THE DISCHARGE.
- E. NOTHING IN THIS SECTION SHALL AFFECT A DISCHARGER'S RESPONSIBILITIES UNDER STATE LAW.
- F. THE FOLLOWING CONNECTIONS ARE PROHIBITED, EXCEPT AS PROVIDED IN SUBSECTION B ABOVE:
1. ANY DRAIN OR CONVEYANCE, WHETHER ON THE SURFACE OR SUBSURFACE, WHICH ALLOWS ANY NON-STORMWATER DISCHARGE, INCLUDING SEWAGE, PROCESS WASTEWATER, AND WASH WATER, TO ENTER THE SEPARATE STORM SEWER SYSTEM, AND ANY CONNECTIONS TO THE STORM DRAIN SYSTEM FROM INDOOR DRAINS AND SINKS; AND
  2. ANY DRAIN OR CONVEYANCE CONNECTED TO A COMMERCIAL OR INDUSTRIAL LAND USE TO THE SEPARATE STORM DRAIN SYSTEM WHICH HAS NOT BEEN DOCUMENTED IN PLANS, MAPS, OR EQUIVALENT RECORDS, AND APPROVED BY THE MUNICIPALITY.

[illegible]









LEGEND

EXISTING LINETYPES	
---	CONTOUR MAJOR
---	CONTOUR MINOR
---	EDGE OF DRIVEWAY
---	OVERHEAD ELECTRIC LINE
---	UNDERGROUND ELECTRIC LINE
---	FABRIC FENCE
---	EDGE OF GRAVEL
---	LIMITS OF WORK
---	OVERHEAD LINE
---	GUIDE RAIL
---	SANITARY SEWER LINE
---	SANITARY SEWER MANHOLE
---	STORM LINE
---	STORM INLET
---	STREAM
---	TELECOMMUNICATIONS LINE
---	UNDERGROUND TELECOMMUNICATIONS LINE
---	TREE LINE
---	WATER LINE
---	WATER VALVE
---	FIRE HYDRANT
---	LIMIT OF WETLANDS
---	ADJOINERS BOUNDARY LINE
---	BOUNDARY LINE
---	CENTERLINE
---	EASEMENT
---	LOT LINE
---	MUNICIPAL BOUNDARY LINE
---	RIGHT-OF-WAY
---	SETBACK LINE
---	SOIL LINE
---	ZONING BOUNDARY LINE
---	BOUNDARY MONUMENT
---	SIGN
---	UTILITY POLE W/ GUY WIRE
PROPOSED LINETYPES	
---	500 CONTOUR MAJOR
---	499 CONTOUR MINOR
---	BOUNDARY LINE
---	CENTERLINE
---	EASEMENT
---	GUIDE RAIL
---	RIGHT-OF-WAY
---	SETBACK LINE
---	OVERHEAD ELECTRIC LINE
---	UNDERGROUND ELECTRIC LINE
---	GAS LINE
---	SANITARY SEWER LINE
---	SANITARY SEWER LATERAL
---	SANITARY SEWER MANHOLE & LABEL
---	STORM LINE
---	STORM INLET & LABEL
---	TELECOMMUNICATIONS LINE
---	UNDERGROUND TELECOMMUNICATIONS LINE
---	WATER LINE
---	WATER SERVICE
---	HYDRANT
---	EDGE OF PAVEMENT
---	PAVEMENT

OVERALL SITE PLAN

LAND DEVELOPMENT PLANS FOR  
PROPOSED ACCESSORY PARKING LOT  
ON LANDS OF LOYALSOCK TWP.  
JOINT JR / SR HIGH SCHOOL  
LOYALSOCK TOWNSHIP, LYCOMING COUNTY

DATE: NOVEMBER 20, 2024

JOB NUMBER:  
24908

SHEET NUMBER:  
SP 1

PROJECT NAME: F:\projects\24908\_MTV PROJECTS\24908\_LTSO PARKING LOT WEST\DWG\LOYALSOCK\_S0\_PL\_ISSN\_1.dwg

PLotted: January 08, 2025 - 2:54pm (100%)

FILE NAME: F:\projects\24908\_MTV PROJECTS\24908\_LTSO PARKING LOT WEST\DWG\LOYALSOCK\_S0\_PL\_ISSN\_1.dwg

LAYOUT: SP-1

LOCATION  
LOYALSOCK TWP  
LYCOMING COUNTY, PA

OWNER:  
LOYALSOCK TWP - JOINT  
JR/SR HIGH SCHOOL

SCALE:  
AS NOTED

DESIGN:  
RCH

DRAWN:  
RCH

PROFESSIONAL  
RYAN C. HEIMBACH  
ENGINEER  
PE085123  
January 08, 2025

12/19/24  
1/08/25

DATE

REVISION

REV. BY

DATE: NOVEMBER 20, 2024

JOB NUMBER:  
24908

SHEET NUMBER:  
SP 1

PROJECT NAME: F:\projects\24908\_MTV PROJECTS\24908\_LTSO PARKING LOT WEST\DWG\LOYALSOCK\_S0\_PL\_ISSN\_1.dwg

PLotted: January 08, 2025 - 2:54pm (100%)

FILE NAME: F:\projects\24908\_MTV PROJECTS\24908\_LTSO PARKING LOT WEST\DWG\LOYALSOCK\_S0\_PL\_ISSN\_1.dwg

LAYOUT: SP-1

DATE: NOVEMBER 20, 2024

JOB NUMBER:  
24908

SHEET NUMBER:  
SP 1

PROJECT NAME: F:\projects\24908\_MTV PROJECTS\24908\_LTSO PARKING LOT WEST\DWG\LOYALSOCK\_S0\_PL\_ISSN\_1.dwg

PLotted: January 08, 2025 - 2:54pm (100%)

FILE NAME: F:\projects\24908\_MTV PROJECTS\24908\_LTSO PARKING LOT WEST\DWG\LOYALSOCK\_S0\_PL\_ISSN\_1.dwg

LAYOUT: SP-1

DATE: NOVEMBER 20, 2024

JOB NUMBER:  
24908

SHEET NUMBER:  
SP 1

PROJECT NAME: F:\projects\24908\_MTV PROJECTS\24908\_LTSO PARKING LOT WEST\DWG\LOYALSOCK\_S0\_PL\_ISSN\_1.dwg

PLotted: January 08, 2025 - 2:54pm (100%)

FILE NAME: F:\projects\24908\_MTV PROJECTS\24908\_LTSO PARKING LOT WEST\DWG\LOYALSOCK\_S0\_PL\_ISSN\_1.dwg

LAYOUT: SP-1

DATE: NOVEMBER 20, 2024

JOB NUMBER:  
24908

SHEET NUMBER:  
SP 1

PROJECT NAME: F:\projects\24908\_MTV PROJECTS\24908\_LTSO PARKING LOT WEST\DWG\LOYALSOCK\_S0\_PL\_ISSN\_1.dwg

PLotted: January 08, 2025 - 2:54pm (100%)

FILE NAME: F:\projects\24908\_MTV PROJECTS\24908\_LTSO PARKING LOT WEST\DWG\LOYALSOCK\_S0\_PL\_ISSN\_1.dwg

LAYOUT: SP-1

HAWBAKER

ENGINEERING

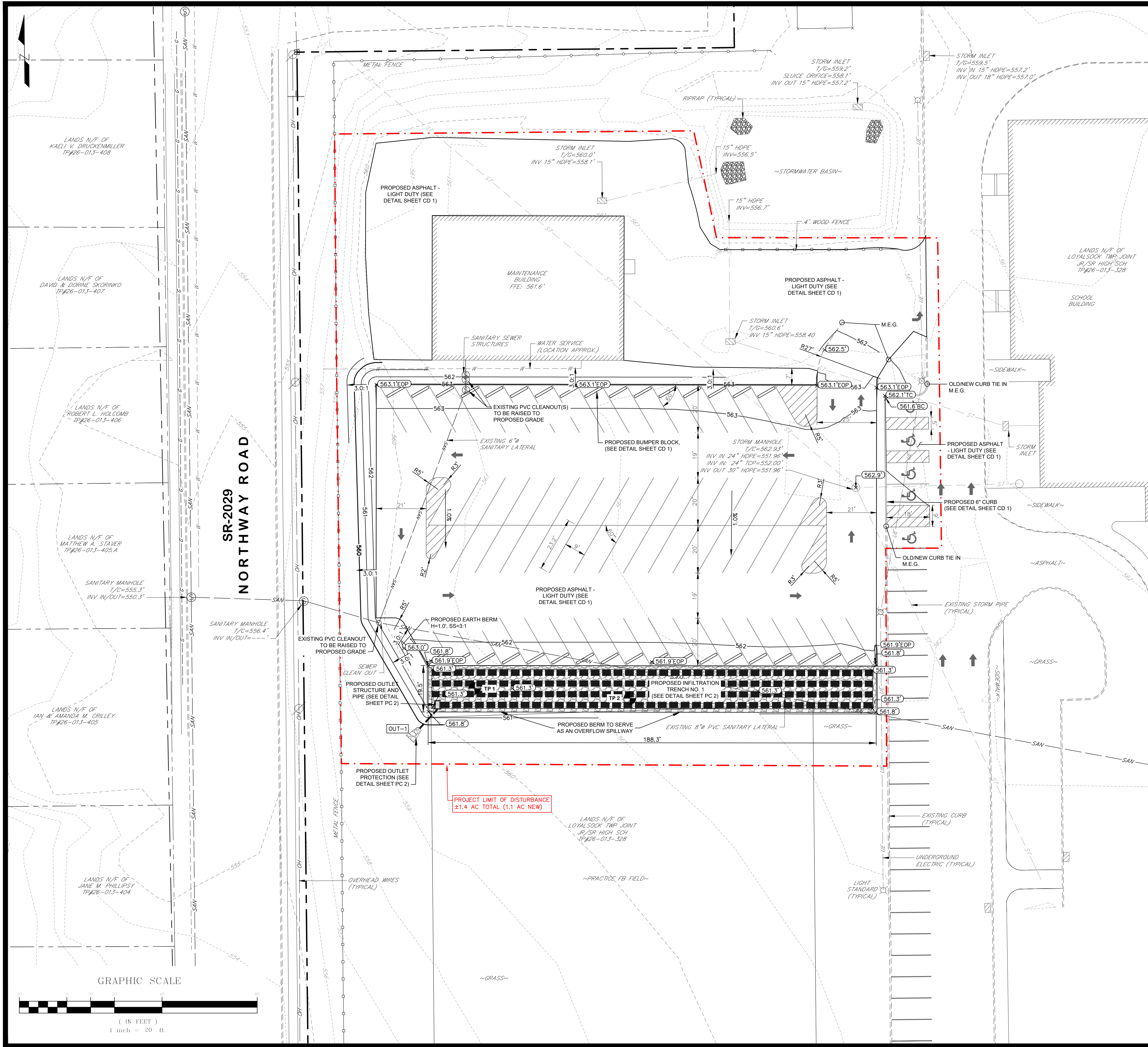
Eastern Region: 2801 Canfield Lane, Montoursville, PA 17754  
570-368-2636  
www.hawbakereengineering.com

DATE: NOVEMBER 20, 2024

JOB NUMBER:  
24908

SHEET NUMBER:  
SP 1





LEGEND

EXISTING LINETYPES	
500	CONTOUR MAJOR
499	CONTOUR MINOR
OE	EDGE OF DRIVEWAY
UE	OVERHEAD ELECTRIC LINE
FF	UNDERGROUND ELECTRIC LINE
FF	FABRIC FENCE
OH	EDGE OF GRAVEL
OH	LIMITS OF WORK
OH	OVERHEAD LINE
SAN	GUIDE RAIL
SAN	SANITARY SEWER LINE
ST	SANITARY SEWER MANHOLE
ST	STORM LINE
ST	STORM INLET
OT	STREAM
UT	TELECOMMUNICATIONS LINE
UT	UNDERGROUND TELECOMMUNICATIONS LINE
W	TREE LINE
W	WATER LINE
W	WATER VALVE
W	FIRE HYDRANT
W	LIMIT OF WETLANDS
W	ADJOINERS BOUNDARY LINE
W	BOUNDARY LINE
W	CENTERLINE
W	EASEMENT
W	LOT LINE
W	MUNICIPAL BOUNDARY LINE
W	RIGHT-OF-WAY
W	SETBACK LINE
W	SOIL LINE
W	ZONING BOUNDARY LINE
W	BOUNDARY MONUMENT
W	SIGN
W	UTILITY POLE W/ GUY WIRE
PROPOSED LINETYPES	
500	CONTOUR MAJOR
499	CONTOUR MINOR
	BOUNDARY LINE
	CENTERLINE
	EASEMENT
	GUIDE RAIL
	RIGHT-OF-WAY
	SETBACK LINE
OE	OVERHEAD ELECTRIC LINE
UE	UNDERGROUND ELECTRIC
G	GAS LINE
SAN	SANITARY SEWER LINE
LAT	SANITARY SEWER LATERAL
SAN	SANITARY SEWER MANHOLE & LABEL
ST	STORM LINE
ST	STORM INLET & LABEL
OT	TELECOMMUNICATIONS LINE
UT	UNDERGROUND TELECOMMUNICATIONS LINE
W	WATER LINE
WAT	WATER SERVICE
WAT	HYDRANT
WAT	EDGE OF PAVEMENT
WAT	PAVEMENT

GRADING & UTILITY NOTES:

1. IN GENERAL, ALL EARTHWORK SHALL BE PERFORMED IN ACCORDANCE WITH TITLE 25 OF THE PA CODE, CHAPTER 102, AND PENNDOT PUBLICATION 408.
2. IF ANY GEOLOGICAL FORMATIONS ARE UNCOVERED DURING EARTH DISTURBANCE OPERATIONS WHICH HAVE POTENTIAL TO CAUSE POLLUTION, THE MATERIALS SHALL BE MANAGED IN ACCORDANCE WITH ALL LOCAL, STATE AND FEDERAL LAWS AND REGULATIONS.
3. ALL SITE WORK SHALL BE COMPLETED WITHIN THE PERMITTED LIMITS OF DISTURBANCE.
4. ALL GRADING AND EARTHWORK SHALL BE COMPLETED IN A MANNER TO MINIMIZE BOTH THE LIMITS AND DURATION OF DISTURBANCE. AREAS WHERE THE CESSATION OF EARTHWORK WILL EXCEED 4 DAYS SHALL BE TEMPORARILY STABILIZED. PERMANENT STABILIZATION MEASURES SHALL BE INSTALLED WITHIN 24 HOURS OF ACHIEVING FINAL GRADING.
5. MEG = MATCH EXISTING GRADE.
6. REFER TO PLAN SHEET PC 2 & CD 1 FOR SUPPLEMENTAL INFORMATION AND DETAILS.
7. REFER TO EROSION AND SEDIMENTATION CONTROL PLANS, SHEET ES 2 FOR CONSTRUCTION SEQUENCE.
8. CONTRACTOR SHALL COORDINATE ALL UTILITY CONNECTIONS WITH RESPECTIVE AUTHORITIES TO ENSURE DESIRABLE ROUTING IS COMPLETED.

CH

CH

TWP. ENGINEER COMMENT REV.

12/19/24

1/08/25

DATE

REVISION

REV. BY

CH

CH

LCD COMMENT REV.

1/08/25

DATE

REVISION

REV. BY

LOCATION

LOYALSOCK TWP. LYCOMING COUNTY, PA

OWNER

LOYALSOCK TWP. JOINT JR/SR HIGH SCHOOL

SCALE

AS NOTED

DESIGN

CH

DRAWN

CH

GRADING & UTILITY PLAN

LAND DEVELOPMENT PLANS FOR PROPOSED ACCESSORY PARKING LOT ON LANDS OF LOYALSOCK TWP. JOINT JR / SR HIGH SCHOOL LOYALSOCK TOWNSHIP, LYCOMING COUNTY

HAWBAKER

ENGINEERING

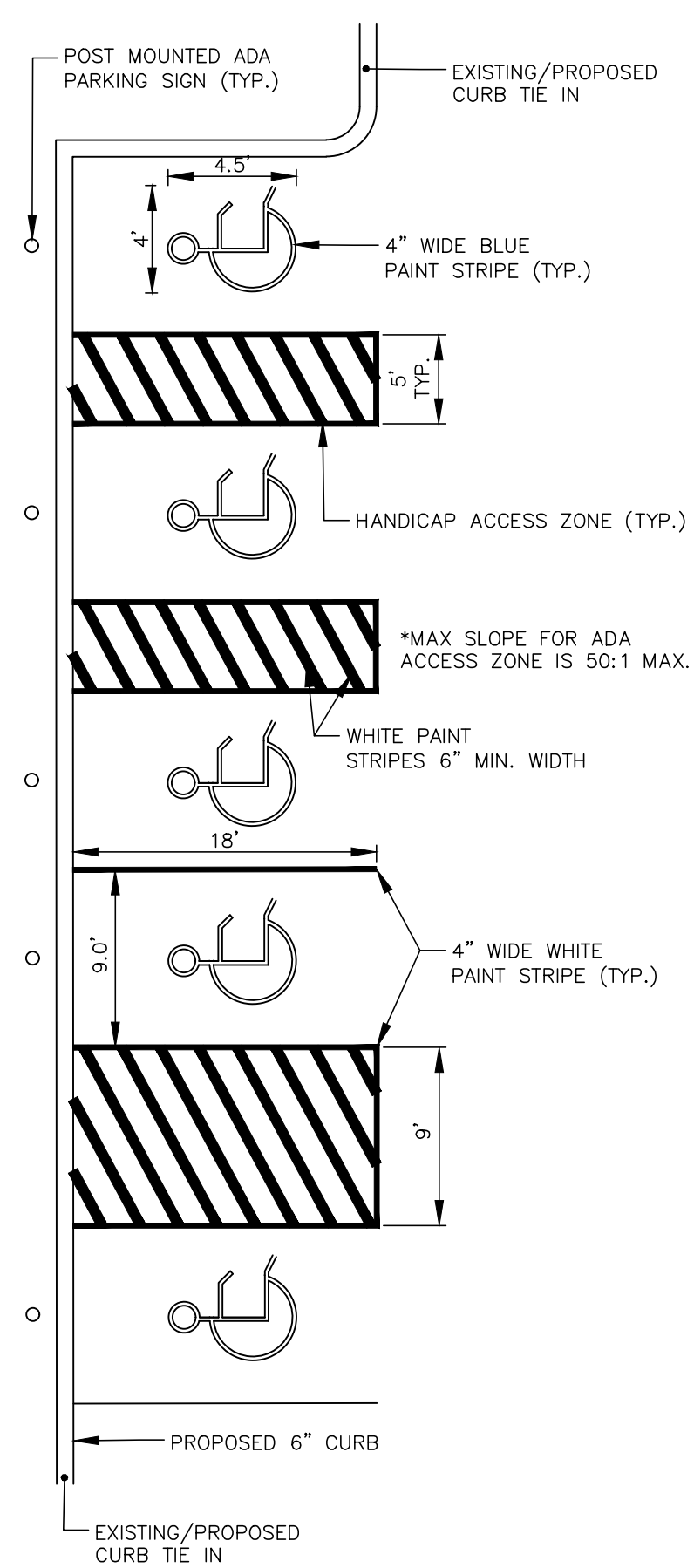
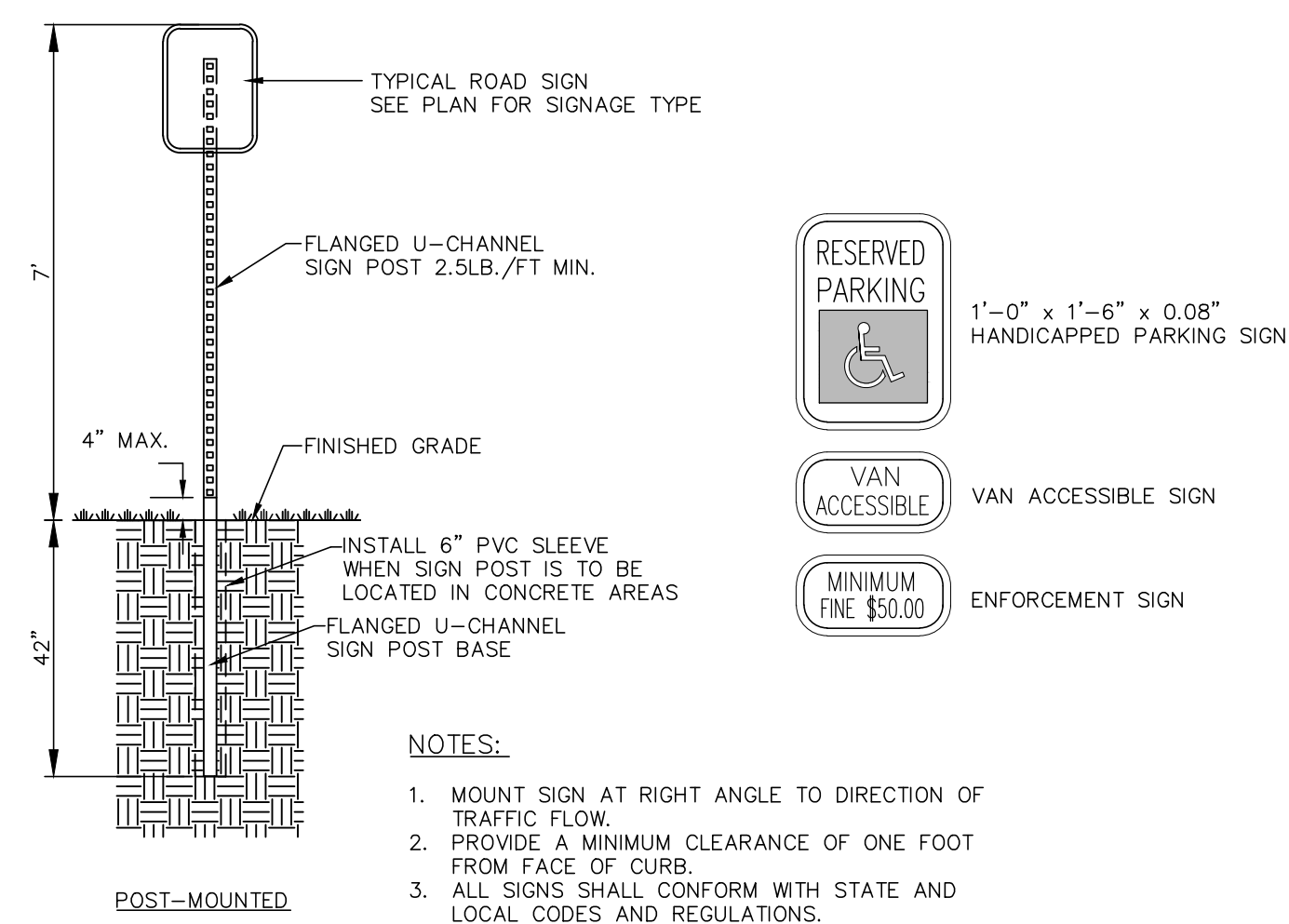
Eastern Region: 2801 Canfield Lane, Montoursville, PA 17754  
570-368-2636  
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DATE: NOVEMBER 20, 2024

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24908

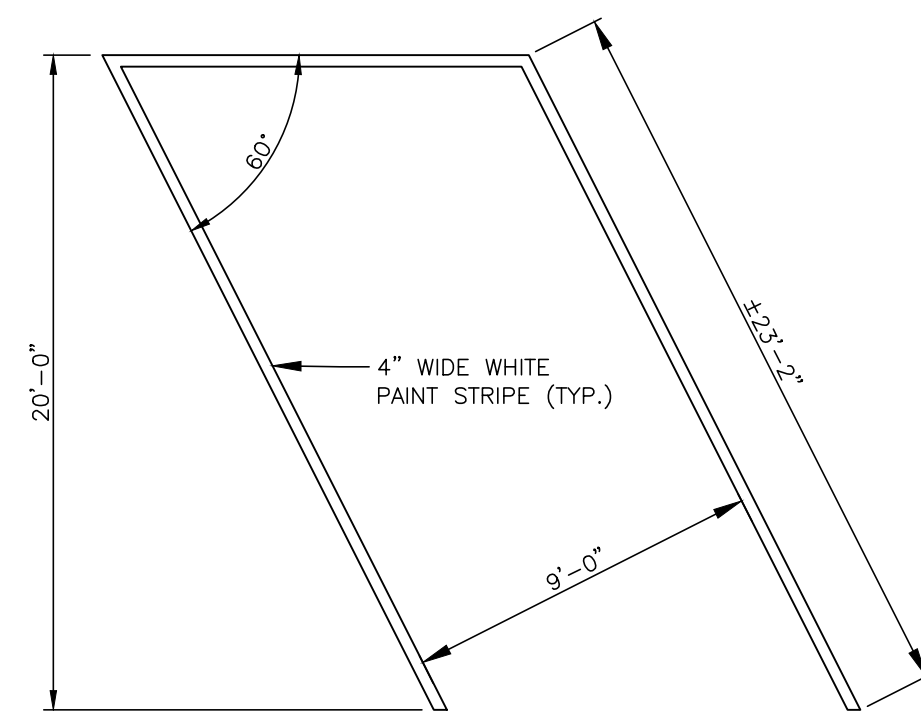
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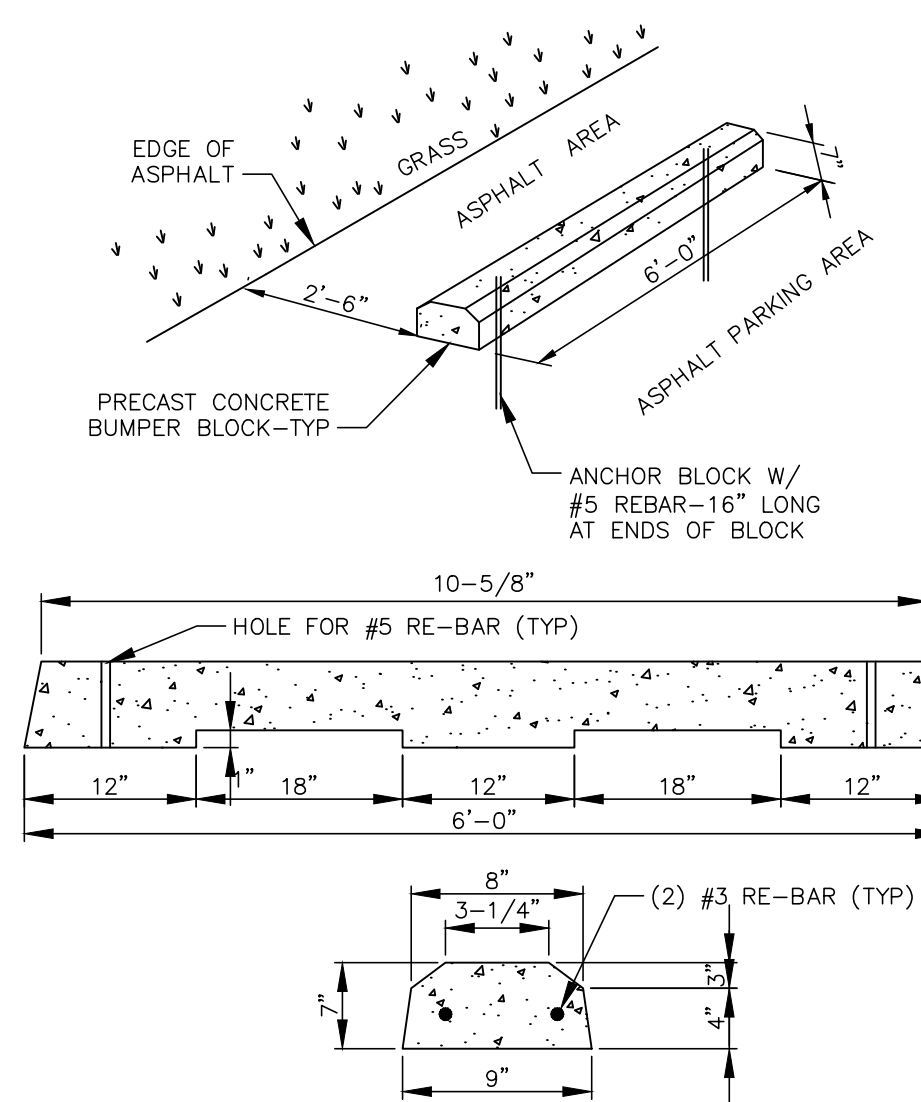


### HANDICAPPED ACCESS AREA DETAIL

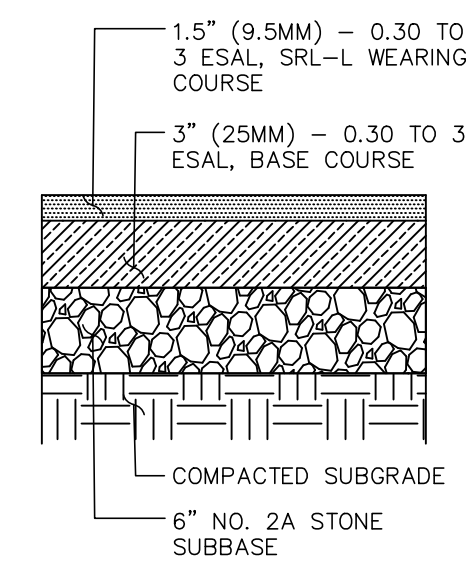
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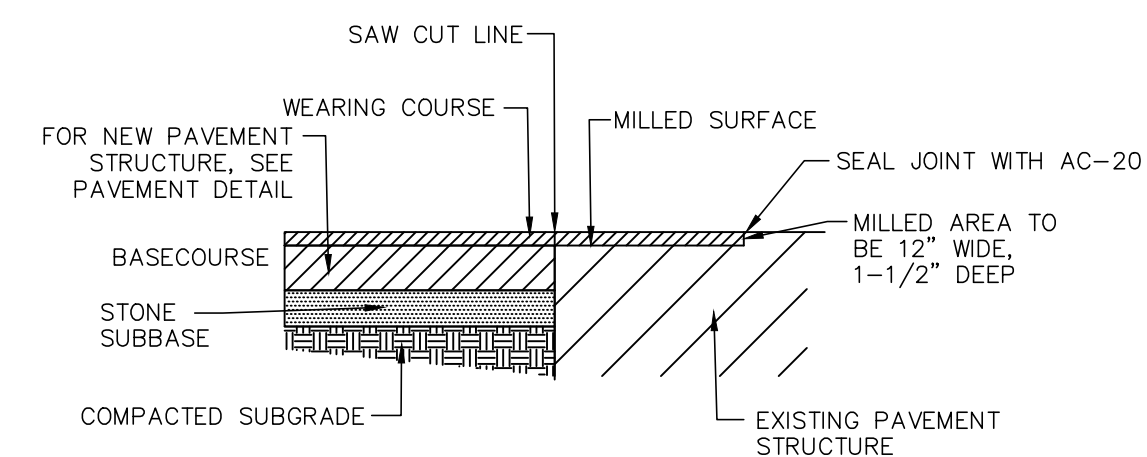
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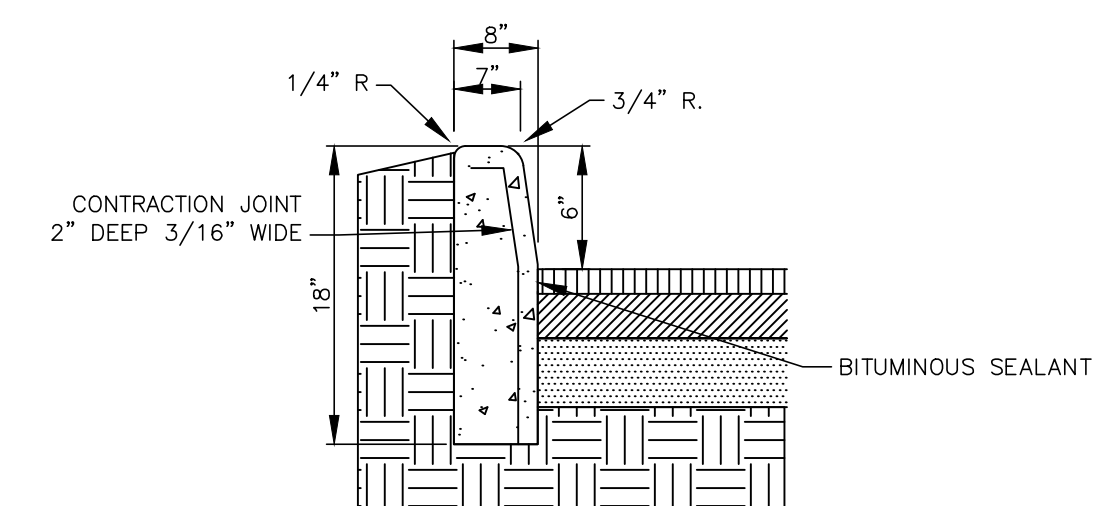
**CONCRETE BUMPER BLOCK DETAIL**  
NOT TO SCALE



**PARKING AREA / DRIVING AISLE  
LIGHT DUTY PAVEMENT SECTION**

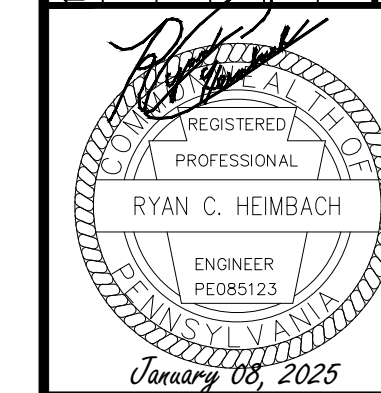


**PAVEMENT SAWCUT DETAIL**  
NOT TO SCALE



**PLAIN CEMENT CONCRETE CURB DETAIL**  
NOT TO SCALE

12/19/24	TWP. ENGINEER COMMENT REV.	RCH
1/08/25	LCCD COMMENT REV.	RCH
DATE	REVISION	REV. BY



LOCATION	LOYALSOCK TWP LYCOMING COUNTY, PA
OWNER:	LOYALSOCK TWP, JOINT JR/SR HIGH SCHOOL
SCALE:	AS NOTED
DESIGN:	DRAWN:
RCH	RCH

15506 14way LAYOUT: CD 1

**CONSTRUCTION DETAILS**

**LAND DEVELOPMENT PLANS FOR  
PROPOSED ACCESSORY PARKING LOT  
ON LANDS OF LOYALSOCK TWP.  
JOINT JR / SR HIGH SCHOOL  
LOYALSOCK TOWNSHIP, LYCOMING COUNTY**

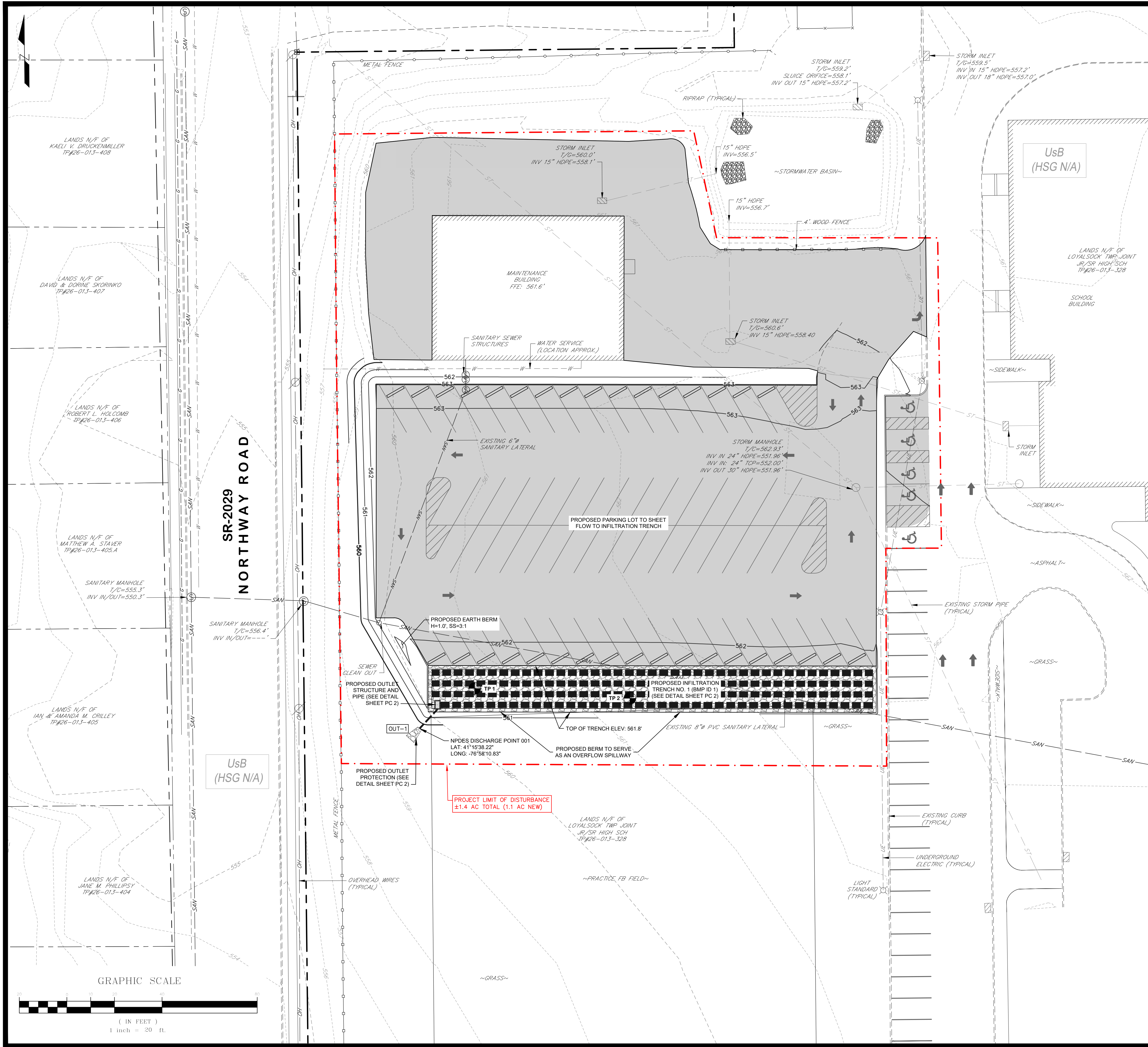
**HAWBAKER**  
**ENGINEERING**

DATE: NOVEMBER 20, 2024  
JOB NUMBER:  
**24908**  
SHEET NUMBER:  
**CD 1**

ALIGNED: January 08, 2025, 2:45pm (vaz2) FILENAME: F:\Projects\24908\_1TSD\_PARKING LOT WEST\DWG\DWG.LOVAL.SDOK \$D

Eastern Region: 2801 Canfield Lane, Montoursville, PA 17754  
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570-368-2636





LEGEND

EXISTING LINETYPES	
500	CONTOUR MAJOR
499	CONTOUR MINOR
OE	EDGE OF DRIVEWAY
UE	OVERHEAD ELECTRIC LINE
FF	UNDERGROUND ELECTRIC LINE
	FABRIC FENCE
	EDGE OF GRAVEL
	LIMITS OF WORK
OH	OVERHEAD LINE
	GUIDE RAIL
SAN	SANITARY SEWER LINE
ST	SANITARY SEWER MANHOLE
ST	STORM LINE
ST	STORM INLET
OT	STREAM
UT	TELECOMMUNICATIONS LINE
	UNDERGROUND TELECOMMUNICATIONS LINE
	TREE LINE
W	WATER LINE
	WATER VALVE
	FIRE HYDRANT
	LIMIT OF WETLANDS
	ADJOINERS BOUNDARY LINE
	BOUNDARY LINE
	CENTERLINE
	EASEMENT
	LOT LINE
	MUNICIPAL BOUNDARY LINE
	RIGHT-OF-WAY
	SETBACK LINE
	SOIL LINE
	ZONING BOUNDARY LINE
	BOUNDARY MONUMENT
	SIGN
	UTILITY POLE W/ GUY WIRE

PROPOSED LINETYPES	
500	CONTOUR MAJOR
499	CONTOUR MINOR
	BOUNDARY LINE
	CENTERLINE
	EASEMENT
	GUIDE RAIL
	RIGHT-OF-WAY
	SETBACK LINE
OE	OVERHEAD ELECTRIC LINE
UE	UNDERGROUND ELECTRIC
G	GAS LINE
SAN	SANITARY SEWER LINE
LAT	SANITARY SEWER LATERAL
SAN	SANITARY SEWER MANHOLE & LABEL
ST	STORM LINE
ST	STORM INLET & LABEL
OT	TELECOMMUNICATIONS LINE
UT	UNDERGROUND TELECOMMUNICATIONS LINE
W	WATER LINE
WAT	WATER SERVICE
	HYDRANT
	EDGE OF PAVEMENT
	PAVEMENT

SOIL PROPERTIES	
Referenced from NRCS Custom Soil Resource Report	
Soil Designation	UsB
Soil Name	Urban
Hydrologic Group	N/A
Permeability	2.00-6.00 in/hr
Erosion Factor	N/A
Ground Water Levels	> 80 inches

LIMITATIONS OF SOILS PERTAINING TO EARTHMOVING PROJECTS

Referenced from Table E.1 PA-DEP E&S BMP Manual (March 31, 2012)

Soil Symbol	Soil Name	Limitations not listed in the PADEP E&S Manual
UsB	Urban	

LIMITATIONS OF SOILS NOTES:

1. CAVING OF CUTBANKS: APPROPRIATE PRECAUTIONS SHALL BE TAKEN TO SAFEGUARD WORKERS DURING TRENCHING AND EXCAVATION OPERATIONS. ALL APPLICABLE OSHA STANDARDS AND REGULATIONS SHALL BE IMPLEMENTED.
2. CORROSIVE TO CONCRETE: ALL UNDERGROUND PIPING SHALL BE HDPE OR COATED CONDUIT.
3. FLOODING: PRECAUTIONS SHALL BE TAKEN IN THE EVENT OF FLOODING OF THE SITE WHICH MAY INCLUDE DRIVING/EXCAVATION PRECAUTIONS DETERMINED NECESSARY BY THE ENGINEER.
4. DEPTH TO SATURATION ZONE/SATURATED SEASONAL HIGH: IT SHOULD BE ASSUMED THAT EXCAVATIONS WILL ENCOUNTER WATER AND APPROPRIATE MEANS SHALL BE PROVIDED TO HANDLE SUCH WATER AS DETERMINED NECESSARY BY THE ENGINEER.
5. HYDRIC/HYDRIC INCLUSIONS: POSSIBLE MEANS OF LOWERING THE WATER TABLE SHALL BE SOUGHT IF NECESSARY BEFORE ANY ON-LOT SEPTIC SYSTEMS ARE INSTALLED. ADDITIONAL DRAINS MAY BE REQUIRED AROUND THE FOUNDATIONS OF ANY NEWLY CONSTRUCTED BUILDINGS.
6. LOW STRENGTH: PRECAUTIONS SHALL BE TAKEN TO PREVENT SLOPE FAILURES DUE TO OVER-STEEPENING OR OVERLOADING OF SLOPES. SLOPE FAILURES SHALL BE EVALUATED AND CORRECTED AS DETERMINED NECESSARY BY THE ENGINEER.
7. SLOW PERCOLATION: THE DESIGN OF STRUCTURAL INFILTRATION BMP'S SHALL INCLUDE SOIL TESTS FOR INFILTRATION RATES OF THE SOILS WITHIN THE SITE. THE RESULTS TO INFILTRATION TESTS SHALL BE INCLUDED IN THE PCSM PLAN NARRATIVE.
8. PIPING: ANTI-SLEEP COLLARS SHALL BE INSTALLED ON PIPES WHICH ARE SUBJECT TO HIGH VOLUMES AND HIGH RATES OF FLOW AS DETERMINED BY THE ENGINEER.
9. TOPSOIL: SOIL TESTING IS STRONGLY RECOMMENDED TO DETERMINE THE PROPER APPLICATION OF SOIL AMENDMENTS TO PROMOTE THE GROWTH OF THE DESIRED VEGETATION.
10. FROST ACTION: PRECAUTIONS SHALL BE SET IN PLACE TO PREVENT DAMAGE TO SOILS FROM FROST, ESPECIALLY SOILS WHICH SERVE AS THE BASE TO A ROADWAY.
11. SHRINK-SWELL: SOIL REINFORCEMENT, PROPER BACKFILLING AND OTHER PRECAUTIONS DETERMINED NECESSARY BY THE ENGINEER SHALL BE PRACTICED IN ORDER TO DECREASE POTENTIAL SOIL STRESSES CAUSED BY HIGH SHRINK/SWELL RATES OF SOILS.
12. POTENTIAL SINKHOLE: SITE INSPECTIONS FOR KARST FEATURES SHALL BE PERFORMED, AND INFILTRATION PRACTICES IN AREAS SUSCEPTIBLE TO SINKHOLE FORMATION SHALL BE AVOIDED. SURFACE RUNOFF SHALL NOT BE CONCENTRATED IN AREAS SUSCEPTIBLE TO SINKHOLE DEVELOPMENT.

PCSM PLAN

LAND DEVELOPMENT PLANS FOR  
PROPOSED ACCESSORY PARKING LOT  
ON LANDS OF LOYALSOCK TWP.  
JOINT JR / SR HIGH SCHOOL  
LOYALSOCK TOWNSHIP, LYCOMING COUNTY

DATE: NOVEMBER 20, 2024

JOB NUMBER:  
24908

SHEET NUMBER:  
PC 1

LOTTED: January 08, 2025-2:50pm (1002)

FILENAME: F:\V\0404\2024\_MTY\_PROJECTS\24908\_1TSD\_PARKING\_LOT\_WEST\DWG\LOYALSOCK\_S0\_PL\_E0501\_1.dwg

LAYOUT: PL-1

LOCATION  
LOYALSOCK TWP  
LYCOMING COUNTY, PA

OWNER:  
LOYALSOCK TWP - JOINT  
JR/SR HIGH SCHOOL

SCALE:  
AS NOTED

DESIGN:  
RCH

DRAWN:  
RCH

PROFESSIONAL  
RYAN C. HEIMBACH  
ENGINEER  
PE085123  
January 08, 2025

TPW. ENGINEER COMMENT REV.  
1/08/25

LCDD COMMENT REV.

REVISION

DATE

REV. BY



PERMANENT SEED MIX - PENNDOT SECTION 804 FORMULA B

FORMULA AND SPECIES	% BY	MINIMUM %		MAX %	SEEDING RATE
	WEIGHT	PURITY	GERMINATION	WEED SEED	LB/1000 YD <sup>2</sup>
FORMULA B					
PERENIAL RYEGRASS MIXTURE (LOLIUM PERENNE), A COMBINATION OF IMPROVED CERTIFIED VARIETIES WITH NO ONE VARIETY EXCEEDING 50% OF THE TOTAL RYEGRASS COMPONENT.	20	98	90	0.15	21.0 TOTAL
					4.0
CREEPING RED FESCUE OR CHEWINGS FESCUE	30	98	85	0.15	6.0
KENTUCKY BLUEGRASS MIXTURE (POA PRATENSIS), A COMBINATION OF IMPROVED CERTIFIED VARIETIES WITH NO ONE VARIETY EXCEEDING 25% OF THE TOTAL BLUEGRASS COMPONENT.	50	98	80	0.20	11.0

OPERATION AND MAINTENANCE REQUIREMENTS:  
GENERAL OPERATION AND MAINTENANCE REQUIREMENTS

THE OWNER / OPERATOR SHALL MAINTAIN ALL PERMANENT PCSM FEATURES IN ACCORDANCE WITH THE APPROVED PCSM PLAN AND ALL APPLICABLE REGULATIONS (PA CODE CHAPTER 102). THIS TO INCLUDE INSPECTIONS COMPLETED ON ALL PCSM BMPs AT LEAST ONCE EVERY SIX MONTHS AND AFTER ALL SIGNIFICANT STORM EVENTS (>0.5 INCHES WITHIN 24 HOURS). ROUTINE INSPECTIONS SHOULD INCLUDE EVALUATION OF DEBRIS WITHIN THE COLLECTION AND CONVEYANCE FEATURES WHICH MAY HAVE A DETRIMENTAL IMPACT ON THE FACILITY OR REDUCE OPERATIONAL CAPACITY. ANY / ALL DEBRIS SHALL BE REMOVED AND DISPOSED OF PROPERLY. IN ADDITION, IT IS THE RESPONSIBILITY OF THE OWNER / OPERATOR TO REPAIR ANY DEFICIENCIES NOTED TO ANY PCSM BMP INCLUDING ALL COLLECTION AND CONVEYANCE FEATURES. ANY REPAIR WORK SHALL BE COMPLETED IMMEDIATELY UPON DISCOVERY AND IN ACCORDANCE WITH THE APPROVED PCSM PLAN.

INFILTRATION TRENCH OPERATION AND MAINTENANCE REQUIREMENTS

- THE STORMWATER FACILITY MUST BE INSPECTED FOR ROUTINE MAINTENANCE A MINIMUM OF TWO TIMES A YEAR, ONCE IN THE EARLY SPRING AND ONCE IN THE FALL AFTER A MAJORITY OF THE LEAVES HAVE FALLEN.
- VISUAL OBSERVATION OF THE GROUND SURFACE TO DETECT PONDING OF WATER OR GROUND SETTLEMENTS THAT WOULD PREVENT RUNOFF FROM ENTERING PIPES OR INLET RISERS AS DESIGNED MUST BE MADE. THE DRAINAGE AREAS FOR THE SYSTEM MUST BE MAINTAINED TO THE GRADING OR INLETS MUST BE MADE TO ENSURE THAT THE SYSTEM IS FUNCTIONING AS DESIGNED. SMALL SINKHOLES CAN BE REPAIRED EASILY BY FILLING WITH TOPSOIL AND MAY BE THE RESULT OF SETTLEMENT OF THE SOIL. LARGER SINKHOLES OR SINKHOLES THAT REAPPEAR IN THE SAME LOCATION MAY INDICATE A BREACH IN THE GEOTEXTILE LINING, INLET BOX STRUCTURE, PIPE CONNECTION, OR A BREAK IN THE STORM CONVEYANCE LINE. THESE TYPES OF SINKHOLES MUST BE EXCAVATED AND THE FAILURE IDENTIFIED AND REPAIRED IMMEDIATELY IN ORDER TO PREVENT SOIL FROM ENTERING THE FACILITY, CLOGGING THE OUTLET STRUCTURE OR REDUCING THE CAPACITY OF THE FACILITY TO ACCEPT DESIGN FLOWS.
- ALL FACILITIES MUST BE INSPECTED SEVERAL TIMES A YEAR FOR ACCUMULATED SEDIMENT AND DEBRIS. INLET GRATES SHALL BE KEPT FREE OF LEAVES, STICKS, MULCH AND OTHER LAWN DEBRIS OR TRASH THAT WOULD PREVENT INFLOW OF RUNOFF. SUMPS IN INLET BOTTOMS MUST HAVE ACCUMULATED SEDIMENT REMOVED TO ENSURE THE DESIGN CAPACITY IS SUFFICIENT TO TRAP SEDIMENT AND DEBRIS.
- ONCE A YEAR, THE FACILITY MUST BE INSPECTED OR OBSERVED FOLLOWING A SIGNIFICANT RAINFALL EVENT TO ENSURE IT IS DRAINING WITHIN THE REQUIRED 72 HOUR TIME PERIOD. IF IT IS DETERMINED THAT THE SYSTEM IS NOT OPERATING AS DESIGNED, THE SYSTEM WILL NEED TO BE MODIFIED OR REPLACED. A PROFESSIONAL ENGINEER MUST DESIGN ANY BMP MODIFICATIONS. THE TOWNSHIP SHALL BE CONTACTED FOR APPROVAL OF ANY MODIFICATION OR REPLACEMENT OF THE SYSTEM.
- ANY INLET OR OTHER STORMWATER MANAGEMENT DEVICE THAT HAS BEEN DAMAGED BY LAWN EQUIPMENT OR OTHER MEANS MUST BE REPAIRED OR REPLACED. ALL COLLECTION PIPES MUST BE CHECKED ANNUALLY TO ENSURE THEY ARE FLOWING FREELY. IF THE COLLECTION PIPES BECOME CLOGGED, JET CLEANING MAY BE PERFORMED PROVIDING ADDITIONAL PROTECTION IS MADE AT THE SEDIMENT BASIN TO ENSURE THAT DEBRIS DOES NOT REMAIN WITHIN THE STORMWATER FACILITY.
- THE OUTFLOW PIPE MUST BE CHECKED TO ENSURE THAT IT IS PERMITTING FREE FLOW OF WATER OUT OF THE FACILITY. ACCUMULATED DEBRIS, SEDIMENT OR LEAVES SHALL BE REMOVED FROM THE RIP-RAP APRON.
- SMALL TREES THAT BEGIN TO GROW IN THE VICINITY OF THE STORMWATER FACILITY MUST BE REMOVED TO ENSURE THAT THE ROOTS DO NOT REDUCE THE VOLUME CAPACITY OR DECREASE THE INTEGRITY OF THE FACILITIES SIDE-SLOPES.
- ROOF GUTTER SYSTEMS THAT ARE INTEGRAL TO THE SWM CONVEYANCE SYSTEM MUST BE FUNCTIONAL. REPAIRS TO GUTTERS THAT BECOME SEPARATED, SAG, OR OTHERWISE DO NOT FUNCTION AS DESIGNED MUST BE MADE.
- PREVENTATIVE MAINTENANCE WOULD INCLUDE REMOVAL OF LEAVES FROM GUTTER SYSTEMS AND LAWN AREAS AS SOON AS POSSIBLE TO AVOID CONTAMINATION OR CLOGGING OF THE SYSTEM. LOCATING LANDSCAPED MULCHED AREAS AWAY FROM CONCENTRATED RUNOFF AREAS THAT COULD WASH MULCH INTO INLETS IS RECOMMENDED.
- VEGETATED SURFACES ON THE PROPERTY SHALL ALSO BE MAINTAINED AS TO PROVIDE STABILIZED EARTH SURFACES, WHICH WOULD MINIMIZE EROSION AND SEDIMENT DAMAGE.
- PROPERTY OWNER IS RESPONSIBLE FOR ANY / ALL INSPECTIONS AND REPAIRS / REPLACEMENTS.

BMP SPECIFIC SCHEDULE OF ACTIVITIES - INFILTRATION TRENCH

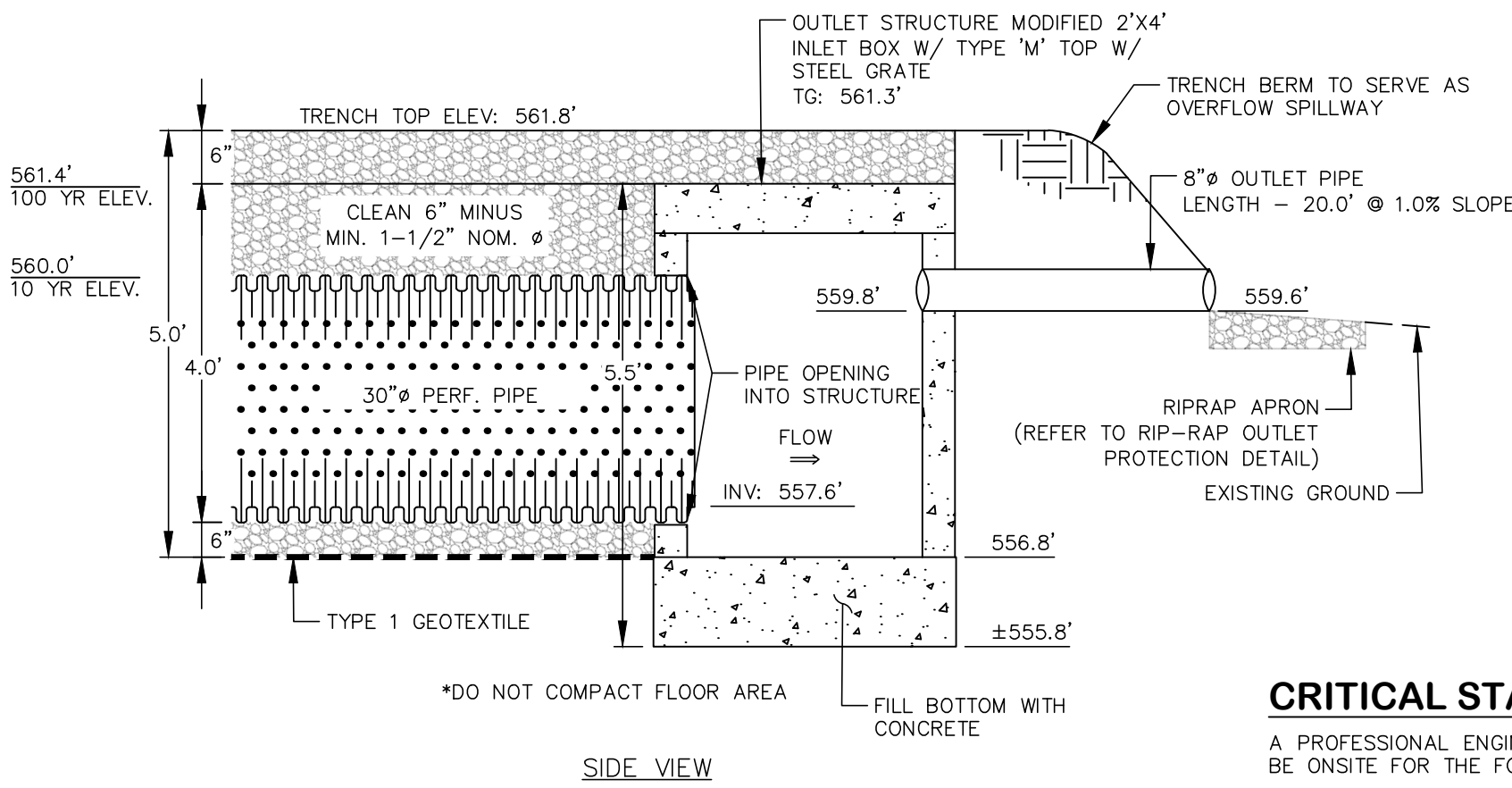
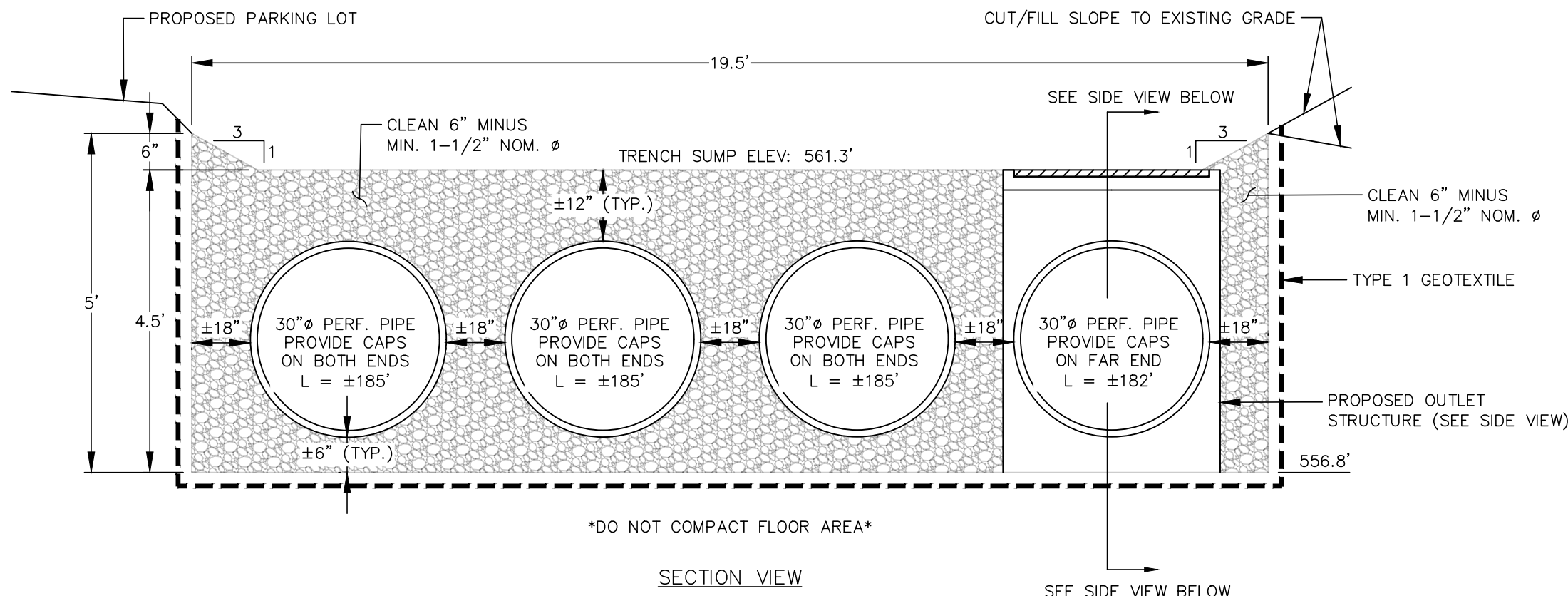
PRIOR TO THE INSTALLATION OF STORMWATER BMP'S, IT IS THE RESPONSIBILITY OF THE SITE WORK CONTRACTOR TO CONTACT THE DESIGN ENGINEER TO OVERSEE CONSTRUCTION OF EACH BMP. THE SITE WORK CONTRACTOR SHALL PROVIDE 7 DAYS NOTICE PRIOR TO BMP CONSTRUCTION.

- ENSURE STABILIZATION OF THE TRIBUTARY DRAINAGE AREAS HAS BEEN COMPLETED PRIOR TO CONSTRUCTION OF THE INFILTRATION TRENCH. REFER TO THE PLAN DETAILS FOR CONSTRUCTION SPECIFICATIONS.
- EXCAVATE THE TRENCH AREA TO THE DIMENSIONS INDICATED ON THE PLAN. DO NOT COMPACT THE EXCAVATED FLOOR AREA.
- INSTALL GEOTEXTILE, STONE BEDDING, PERFORATED PIPING (INCLUDING CAPS) AND OUTLET STRUCTURE AS SHOWN PER PLAN DETAILS.
- PLACE THE REMAINDER OF THE STONE WITHIN THE TRENCH, AROUND THE PIPING AND OUTLET STRUCTURE TO FINISHED GRADE AS SHOWN ON THE PLANS.
- DRESS OUTSIDE SIDE SLOPES WITH TOPSOIL TO FINISHED GRADE.
- STABILIZE ALL AREAS REMAINING AREAS (OUTSIDE OF THE TRENCH) NOT ALREADY STABILIZED WITH GRASS THROUGH SEEDING AND MULCHING. WHEN UNIFORM 70% VEGETATION IS ESTABLISHED AND ACTIVITIES ARE COMPLETED, CONTACT THE COUNTY CONSERVATION DISTRICT FOR FINAL INSPECTION.

RECYCLING AND DISPOSAL METHODS:

THE RECYCLING AND DISPOSAL OF MATERIALS SHALL BE IN ACCORDANCE WITH LOCAL, STATE AND FEDERAL REGULATIONS, INCLUDING SECTION 102.4(b)(5)(xii). COMPLY WITH AIR QUALITY, WATER QUALITY, SOLID WASTE MANAGEMENT POLICIES, ETC. CONSTRUCTION WASTES MAY INCLUDE, BUT ARE NOT LIMITED TO, THE FOLLOWING:

- EXCESS SOIL MATERIALS
- TREES, SHRUBS AND BRUSH REMOVED DURING CLEARING AND GRUBBING
- SANITARY WASTES
- CONCRETE WASH WATER
- PACKAGING MATERIALS (WOOD, PAPER, PLASTIC, STYROFOAM, ETC.)
- SCRAP OR SURPLUS BUILDING MATERIALS (METALS, RUBBER, PLASTIC, GLASS, MASONRY PRODUCTS, AND OTHER SOLID WASTE MATERIALS)
- PETROLEUM PRODUCTS, PAINT AND THINNERS, CLEANING SOLVENTS, CURING COMPOUNDS AND SIMILAR MATERIALS
- DEMOLITION DEBRIS
- UNLESS OTHERWISE DIRECTED, EXCESS SOIL AND EXCAVATED MATERIAL MAY BE USED FOR FILL MATERIAL ON SITE OR OFF SITE. IF THE PROJECT 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. COORDINATE WITH OWNER AND COUNTY CONSERVATION DISTRICT. ANY MATERIAL THAT IS IMPORTED OR EXPORTED FROM SITE WILL BE CLASSIFIED AS CLEAN FILL PER THE PENNSYLVANIA DEPARTMENT OF ENVIRONMENTAL PROTECTION, AND WILL HAVE AN APPROVED EAS CONTROL PLAN.
- TREES, SHRUBS AND BRUSH SHALL BE CHIPPED WHEN POSSIBLE AND REUSED AS MULCH. DO NOT BURN WITHOUT PERMISSION.
- WHERE POSSIBLE, WASTES SHALL BE RECYCLED. WHERE NOT PRACTICAL, WASTES SHALL BE PROPERLY DISPOSED OF AT A PERMITTED LANDFILL FACILITY. THE CONTRACTOR IS ENCOURAGED TO CONSULT THE RECYCLING HOTLINE OR LOCAL SOLID WASTE MANAGEMENT AGENCY.
- CONTRACTOR SHALL PRACTICE GOOD HOUSEKEEPING, INCLUDING BUT LIMITED TO THE FOLLOWING:
  - NEAT, ORDERLY AND CENTRALIZED STORAGE OF MATERIALS AND WASTES.
  - CONTROL OF LITTER PROVIDING CONTAINERS WITH LIDS IF NEEDED.
  - REGULAR DISPOSAL AND PROMPT CLEANUP OF ANY SPILLS IN ACCORDANCE WITH MANUFACTURER'S INSTRUCTIONS OR IN ACCORDANCE WITH REGULATORY REQUIREMENTS. UTILIZE A SPECIALTY FIRM IF REQUIRED.
  - PROMPT CLEANUP OF SEDIMENTS WITHIN THE SITE AND ONTO ADJACENT ROADWAYS
  - KEEP DUST WITHIN TOLERABLE LIMITS BY USING WATER OR OTHER APPROVED DUST SUPPRESSORS.



INFILTRATION TRENCH DETAIL  
NOT TO SCALE

CRITICAL STAGES INSPECTION

A PROFESSIONAL ENGINEER OR HIS / HER DESIGNEE SHALL BE ONSITE FOR THE FOLLOWING:

- PRIOR TO AND DURING INSTALLATION OF THE INFILTRATION TRENCH

CUBIC YARDS OF TOPSOIL REQUIRED FOR APPLICATION TO VARIOUS DEPTHS		
DEPTH (IN)	PER 1,000 SF	PER ACRE
1	3.1	134
2	6.2	268
3	9.3	403
4	12.4	537
5	15.5	672
6	18.8	806
7	21.7	940
8	24.8	1,074

FERTILIZER & LIME APPLICATION TABLE			
SOIL AMENDMENT	PERMANENT SEEDING APPLICATION RATE		
	PER ACRE	PER 1,000 SY	PER 1,000 SY
AGRICULTURAL LIME	6 TON	240 LB.	2,480 LB.
10-20-20 FERTILIZER	1,000 LB	25 LB.	210 LB.
TEMPORARY SEEDING APPLICATION RATE			
AGRICULTURAL LIME	1 TON	40 LB.	410 LB.
10-10-10 FERTILIZER	500 LB	12.5 LB.	100 LB.

NOTES:

- EROSION CONTROL BLANKET WHICH MEETS THE STANDARDS OF CHAPTER 11 OF THE PADEP E&S MANUAL MAY BE SUBSTITUTED FOR THE SOIL AMENDMENTS SHOWN IN TABLE ABOVE.

PCSM NOTES & DETAILS  
LAND DEVELOPMENT PLANS FOR  
PROPOSED ACCESSORY PARKING LOT  
ON LANDS OF LOYALSOCK TWP.  
JOINT JR / SR HIGH SCHOOL  
LOYALSOCK TOWNSHIP, LYCOMING COUNTY

DATE: NOVEMBER 20, 2024

JOB NUMBER:  
24908

SHEET NUMBER:  
PC 2

LOCATION  
LOYALSOCK TWP.  
LYCOMING COUNTY, PA

OWNER:  
LOYALSOCK TWP. JOINT  
JR/SR HIGH SCHOOL

SCALE  
AS NOTED

DESIGN:  
RCH

DRAWN:  
RCH

PCSM NOTES & DETAILS

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RCH

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HAWBAKER  
ENGINEERING

Eastern Region: 2807 Canfield Lane, Montoursville, PA 17754  
570-368-2636  
www.hawbakereengineering.com

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OWNER:  
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PCSM NOTES & DETAILS

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