# PUBLIC NOTICE

# REQUEST FOR PERMISSION TO ALTER A U.S. ARMY CORPS OF ENGINEERS PROJECT UNDER SECTION 408

**TITLE:** Lehigh County Authority's Allentown Division – Water Main Repairs sited at the Allentown Levee portion of the Lehigh River Flood Control Federal Civil Works Project, City of Allentown, Lehigh County, Pennsylvania

PUBLIC NOTICE IDENTIFICATION NUMBER: 408-NAP-2024-0019

**PUBLIC NOTICE COMMENT PERIOD:** 

Begins: 13 December 2024

Expires: 12 January 2025

Interested parties are hereby notified that an application has been received for a Department of the Army Section 408 permission for certain work at or near a federal project of the United States, as described below and shown on attached figures. Written comments are being solicited from anyone having an interest in the requested alteration. Comments will become part of the U.S. Army Corps of Engineers' (USACE's) administrative record and will be considered in determining whether to approve the request. Comments supporting, opposing, or identifying concerns that should be considered by the USACE in its decision process are all welcome.

This public notice is not a paid advertisement and is for public information only. Issuance of this notice does not imply USACE endorsement of the project as described.

- **1. REQUESTOR:** In compliance with 33 USC 408 (Section 14 of the Rivers and Harbors Act of 1899; hereinafter Section 408), Lehigh County Authority's Allentown Division has requested permission to undertake repairs to an existing water main sited at the Allentown Levee portion of the Lehigh River Flood Control Federal Civil Works Project, City of Allentown, Lehigh County, Pennsylvania.
- **2. LOCATION:** The proposed project is located in uplands between Union Street and the Lehigh River in the City of Allentown, Lehigh County, Pennsylvania, at approximate center coordinates 40.604625, -75.454979.
- 3. LOCATION MAP(S)/DRAWING(S): Please see attached Project Plan Sheets 1-12.
- **4. REQUESTER'S PROPOSED ACTION:** The proposed action entails repairs to an existing 30.0-inch diameter water main, identified as "Site 4" in the Project Plans, which will involve trench excavation into the footprint of the Allentown Levee portion of the Lehigh River Flood Control Federal Civil Works Project to access and perform the pipe repairs.

The stated purpose of the project is to maintain water service for the City of Allentown by repairing leaks detected along an existing water transmission main.

- **5. REGULATORY AUTHORITY:** This request will be reviewed according to the provisions of Section 14 of the Rivers and Harbors Act of 1899 (33 U.S.C. 408). A requestor has the responsibility to acquire all other permissions or authorizations required by federal, state, and local laws or regulations, including any required permits from the USACE Regulatory Program under Section 10 of the Rivers and Harbors Act of 1899 (33 USC 403), Section 404 of the Clean Water Act (33 USC Section 1344) and/or Section 103 of the Marine Protection, Research and Sanctuaries Act of 1972 (33 USC 1413). Any Section 10/404/103 permit decision associated with the proposed alteration is separate from and will not be included in the Section 408 permission decision. An approval under Section 408 does not grant any property rights or exclusive privileges nor does it authorize any injury to the property or rights of others.
- **6. ENVIRONMENTAL COMPLIANCE:** A decision on a Section 408 request is a federal action, and therefore subject to the National Environmental Policy Act (NEPA) and other environmental compliance requirements. While ensuring compliance is the responsibility of USACE, the requester is providing all information that the Philadelphia District identifies as necessary to satisfy all applicable federal laws, executive orders, regulations, policies, and ordinances. Based on information provided by the applicant to date, current Corps regulations governing NEPA implementation, and/or the contents of existing NEPA documentation if available, it is likely that the proposed action will be determined to be categorically excluded from the need to prepare an Environmental Assessment (EA) or Environmental Impact Statement (EIS). This determination will be finalized following completion of agency coordination and prior to issuance of the Section 408 Permission Decision.
- **7. EVALUATION:** As part of its evaluation, USACE will first make a determination that the submittal from the requestor is complete. The Philadelphia District is working closely with the requestor to ensure that all required technical plans, maps, drawings, and specifications are provided and are complete. Once the package is complete, a District-led review will be conducted to determine, in accordance with Engineering Circular (EC) 1165-2-216, whether the proposed alteration will impair the usefulness of the USACE Project or be injurious to the public interest, as follows:
  - A. *Impair the Usefulness of the Project Determination*. The Philadelphia District's Section 408 review team will determine if the proposed alteration will limit the ability of the federally authorized project to function as authorized, or will compromise or change any authorized project conditions, purposes or outputs.
  - B. Injurious to the Public Interest Determination. Proposed alterations will be reviewed to determine the probable impacts, including cumulative impacts, on the public interest. Evaluation of the probable impacts that the proposed alteration to the USACE project may have on the public interest requires a careful weighing of all those factors that are relevant in each particular case. Factors that may be relevant to the public interest depend upon the type of USACE project being altered and may include, but are not limited to, such things as conservation, economic

development, historic properties, cultural resources, environmental impacts, water supply, water quality, flood hazards, floodplains, residual risk, induced damages, navigation, shore erosion or accretion, and recreation. The decision whether to approve an alteration will be determined by the consideration of whether benefits are commensurate with risks. If the potential detriments are found to outweigh the potential benefits, then it may be determined that the proposed alteration is injurious to the public interest.

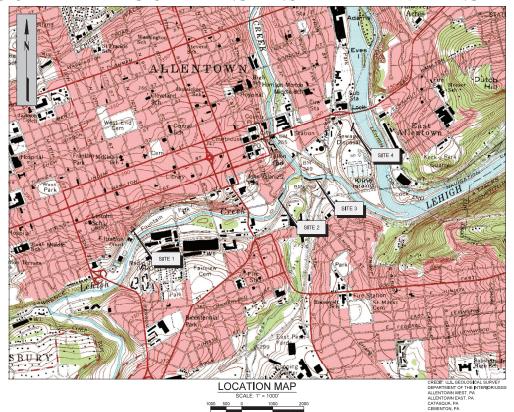
- **8. SOLICITATION OF COMMENTS:** The USACE is soliciting comments from the public; federal, state, and local agencies and officials; Indian Tribes; and other interested parties in order to consider and evaluate the impacts of the proposed activity. Any comments received will be considered by USACE to determine whether to issue, modify, condition, or deny a permission for this proposal. To make this decision, comments are used to assess impacts on endangered species, historic properties, water quality, general environmental effects, and other public interest factors listed above. Comments are considered in making a final determination whether the proposed action will be categorically excluded from the need to prepare further NEPA documentation. Comments are also used to determine the need for a public hearing and to determine the overall public interest of the proposed activity.
- A. It should be noted that materials submitted as part of the Section 408 request become part of the public record and are thus available to the general public under the procedures of the Freedom of Information Act (FOIA). Individuals may submit a written request to the Philadelphia District Corps of Engineers, Office of Counsel to obtain copies of said materials under the FOIA.
- B. It is presumed that all parties viewing this notice will wish to respond to this public notice; therefore, a lack of response will be interpreted as meaning that there is no objection to the project as described.
- **9. COMMENT SUBMISSION AND ADDITIONAL INFORMATION:** Written comments on the described work should reference the USACE Public Notice Identification Number found on the first page of this notice. Comments must reach this office no later than the stated expiration date of the Public Notice to become part of the record and be considered in the decision. Comments or requests for additional information should be emailed or mailed to the following address:

Email: Bishel.Baby@usace.army.mil Mailing Address: U.S. Army Corps of Engineers Philadelphia District Attn: Bishel B. Baby 1650 Arch Street, 7th Floor Philadelphia, PA 19103-2004

# LEHIGH COUNTY AUTHORITY - ALLENTOWN DIVISION

ALLENTOWN, PENNSYLVANIA

# 30" AND 36" EAST SIDE TRANSMISSION MAIN REPAIRS



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SHEET No.	DESCRIPTION
	COVER
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3	CIVIL/SITE GENERAL NOTES
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GANNETT FLEMING PROJECT NO. 75202

LCA PROJECT NO. AD-W-24-3

DECEMBER 2024

PERMIT SUBMISSION

MICHAEL NAVICH@FTR.COM

LEHIGH COUNTY AUTHORITY

JASONPETERS@LEHIGHCOUNTYAUTHORITY.ORG

PPL ELECTRIC UTILITIES CORPORATION

053 SPRUCE ROAD

JASON PETERS

PO BOX 3348 ALLENTOWN, PA 18106

503 NEW MARKET STREET WILKES BARRE, PA 18702

MCSANTAYANA@PPLWEB.COM

MARK SANTAVANA

(570) 821-5800

CIVIL/SITE ABBREVIATIONS

Call before you dig.

ANY BORINGS. SOUNDINGS. TEST PITS. SUBSURFACE CONDITIONS AND LOCATIONS OF AND NATURE OF EXISTING UNDERGROUND STRUCTURES SHOWN OR INDICATED ON THESE DRAWINGS ARE FOR THE INFORMATION OF THE OWNER AND IN NO EVENT IS THIS INFORMATION TO BE CONSIDERED AS PART OF THE CONTRACT, SEE PROJECT MANUAL.

NOTICE

CONNETT REINING INC. ADMISES THAT IT HAS COMPLED WITH THE PROVISIONS OF THE WITERFORKING DITHIT IN LIFE PROCESSION LAW.

RECURRING DECAMPION OF DEMOLITORAL OF THE THE PROPERTY OF LAW.

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INVESTIGATIONS@VERIZON.COM

VERIZON PENNSYLVANIA, LLC.

FORT WASHINGTON, PA 19034

LAURA.M.LIPPINCOTT@ONE.VERIZON.COM

JANDREAS@SALISBURYTOWNSHIPPA.ORG

(972) 729-4762

1050 VIRGINIA DRIVE

LAURA LIPPINCOTT

(215) 283-0690

(410, 272, 3535)

(610) 797-4000

ONE CALL SYSTEM TELEPHONE NUMBER 1-800-242-1776 DATE 3/2024 BY J. ZAGOTTI ORDER TELEVING. INC. UNE CALL STSTEM TELEFTICINE NORMALIST TOWN 22 A 20240100212 LINE COMPOSITION

TEMPORARY DIVERSION CHANNEL

INLET PROTECTION

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NEW FACILITIES SHOWN WITH HEAVIER AND BOLDER LINE WORK AND CALLOUTS IN VERTICAL TEXT. — — — PROPOSED WORK SHOWN ON ADJOINING SHEET

GANNETT FLEMING HARRISBURG PENNSYLVANIA

LEHIGH COUNTY AUTHORITY - ALLENTOWN DIVISION ALLENTOWN PENNSYLVANIA

CIVIL/SITE SYMBOLS AND ABBREVIATIONS GENERAL NOTES AND LEGENDS

30" AND 36" EAST SIDE TRANSMISSION MAIN REPAIRS DECEMBER 2024 J.R.W. J.W.Z. E.J.S. M.T.B. AS NOTE

PERMIT SUBMISSION

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5-0

LEHIGH

SHEET No.

2 OF 13

DATE BY

#### **GENERAL NOTES:**

- 1. ALL ELEVATIONS REFER TO U.S.G.S. 1988 DATUM UNLESS NOTED OTHERWISE.
- 2. HORIZONTAL CONTROL IS BASED UPON STATE PLANE COORDINATE SYSTEM.
- INFORMATION SHOWN HEREIN IS BASED ON SURVEY PERFORMED BY ARTHUR A. SWALLOW ASSOCIATES, MARCH 2024.
- IT IS ASSUMED THAT LOCATIONS OF PHYSICAL FEATURES, UTILITIES, ETC., FROM INVESTIGATIONS AND FIELD SURVEYS, ARE APPROXIMATE AND THE NATURE OF MATERIAL SENIOR CUMPANITES.
- THE CONTRACTOR SHALL BE REQUIRED TO VERIEY ALL CONDITIONS AND DIMENSIONS OF THE JOB SITE BEFORE PROCEEDING WITH THE WORK AND SHALL MAKE MINOR ADJUSTMENTS AS REQUIRED ON THE JOB, SUCH ADJUSTMENTS ARE TO BE APPROVED BY THE ENGINEER AND THE OWINER.
- 6. LOCATION AND DEPTH OF EXISTING UTILITY LINES INCLUDING SERVICES SHALL BE LOCATION AND THE OTHER WAS CONTROLLED THE WAS THE MAIN CONSTRUCTION. EXTREME CARE SHALL BE EXERCISED WHEN EXCAVATING EXISTING UTILITY LINES. AND EXCAVISIONALLY BE PERMITTED IN THE VICTIMITY OF EXISTING PIPES ANDIOR CONDUITS, ANY DAMAGE TO UTILITIES SHALL BE REPAIRED BY CONTRACTOR AT NO ADDITIONAL COST TO OWNER.
- 7. THE CONTRACTOR SHALL SUSTAIN IN THEIR PLACES AND PROTECT FROM DIRECT OR NDIRECT WILLIAM ALL PIESE CONDUITS, UNDERGROUND TRAFFIC LOOPS TRACKS, UTILITY POLES, GUIDE RALS, GUARD POSTS, WALLS, FOUNDATIONS, BUILDINGS, AND OTHER STRUCTURES OR POPERTY IN THE VICINITY OF HIS WORK, WHETHER ABOVE OR BELOW GROUND, OR THAT MAY APPEAR IN THE TRENCH, PIESE AND UNDERGROUND CONDUITS EXPOSED AS RESULT OF THE CONTRACTORS OPERATIONS SHALL BE ADEQUATELY SUPPORTED ALONG THEIR ENTIRE EXPOSED.
- 8. THE CONTRACTOR SHALL VERIFY LOCATIONS OF PIPELINE, VALVES AND AIR VALVES WITH ENGINEER PRIOR TO THEIR INSTALLATION.
- B. IN ACCORDANCE WITH PROVISIONS OF ACT NO, 287/187 (AS AMENDED), THE CONTRACTOR SHALL NOTIFY EACH USER (AS DEFINED IN THE ACT) A MINIMUM OF THREE WORKING DAYS IN ADVANCE OF THE TIME HE INTENDS TO BEGIN EXCAVATION OPERATIONS IN VICINITY OF THE USER'S LINES.
- 10. THE CONTRACTOR SHALL EXERCISE SPECIAL CARE WHEN WORKING IN RIGHT OF WAYS SO AS NOT TO DAMAGE TREES AND SHRUBS THAT ARE TO BE MAINTAINED, ALL SIGNS, MALBOXES, FENCES, LAWNS, SHRUBS, HEOGES, TREES, OTHER LANDSCAPING, CURRS, DRIVEWAYS, ETC., DISTURBED DURING CONSTRUCTION SHALL BE REPLACED IN KIND AT NO ADDITIONAL COST TO THE OWNER.
- 11. MAINTAIN MINIMUM 18" VERTICAL SEPARATION BETWEEN TRANSVERSE CROSSING OF WATER MAIN AND SEWER LINE.
- ALL EROSION AND SEDIMENTATION CONTROL FACILITIES SHALL BE CONSTRUCTED AND MAINTAINED IN ACCORDANCE WITH THE PENNSYLVANIA "EROSION AND SEDIMENTATION POLLUTION CONTROL MANUAL" AND THE EROSION AND SEDIMENTATION CONTROL PLANIS) PREPARED FOR THIS PROJECT.
- 13. AT POINTS OF CONNECTION, CONTRACTOR SHALL EXPOSE EXISTING WATER MAINS TO VERIFY LOCATION, GEOMETRY, AND MATERIAL REQUIREMENTS PRIOR TO ORDERING MATERIALS OR STARTING CONSTRUCTION OF ANY MAIN CONNECTING
- FIRE HYDRANT INSTALLATIONS INDICATED ON THE DRAWINGS ARE APPROXIMATE.
   OWNER WILL PROVIDE EXACT LOCATION DURING CONSTRUCTION.
- 15. WATER SYSTEM CONSTRUCTION IS SUBJECT TO INSPECTION BY LCA. CONTACT LCA AT (910) 398-250 TO SCHEDULE AN INSPECTION A MINIMUM OF THREE (3) DAYS PRIOR TO THE START OF WORK, ONLY LCA PERSONNEL SHALL OPERATE VALVES IN THE MATER SYSTEM.
- 16. SEPARATION BETWEEN WATER LINES AND SEWERS; (1) PARALLEL A MINIMUM HORIZONTAL SEPARATION OF 10 SHALL BE MAINTAINED BETWEEN A WITSTER LINE AND SANTARY OR STORM SEWERS, WHERE LCA APPROVES AN EXCEPTION TO THIS, AND SANTARY OR STORM SEWERS, WHERE LCA APPROVES AN EXCEPTION TO THIS THE WATER LINE MAY BE INSTALLED TO WITHIN 5 OF A SEWER IF THE BOTTOM OF THE WATER LINE SLAD SO THAT ITS ELEVATION IS A MINIMUM OF 16" ABOVE THE TOP OF THE SEWER LINE AND IN A SEPARATE TERECH OR ON AN UNDISTURBED EARTH SHELF. (2) CROSSINGS WHEN A WATER LINE CROSSES A SANTARY OR STORM SEWER. THE BOTTOM OF THE WATER LINE SHALL BE MAINTAINED A MINIMUM OF 19" ABOVE THE TOP OF THE SEWER AND A FULL LENGTH OF WATER PIPE SHALL BE CENTERED ON THE CROSSING, WHERE LCA APPROVES AN EXCEPTION TO THIS FOR THE CROSSING OF A GRAVITY SEWER. A MINIMUM OF 5" SEPARATION SHALL BE CONSTRUCTED WITH WATERTIGHT JOINTS, AND THE WATER LINE SHALL BE CONSTRUCTED WITH WATERTIGHT JOINTS, AND THE WATER LINE SHALL BE CONSTROM SEWER OR BELOW A STORM SEWER WITH GREATER THAN 19" SEPARATION. WATER LINE FITTINGS AND VALVES SHALL NOT BE ENCASED IN CONCRETE FOR 10" ON ETHER SIDE SHALL NOT BE ENCASED IN CONCRETE FOR 10" ON ETHER SIDE OF THE CROSSING UNLESS CROSSION GABOVE A STORM SEWER OR BELOW A STORM SEWER WITH GREATER THAN 19" SEPARATION. WATER LINE FITTINGS AND VALVES SHALL NOT BE ENCASED IN CONCRETE SEMERS SHALL BE ADDICATELY SUPPOPRIED TO PREVENT ANY EXCESS DEFLECTION OF THE JOINTS AND THE SETTLING ON AND BREAKING OF THE WATER LINE.
- A 10' MINIMUM HORIZONTAL SEPARATION SHALL BE MAINTAINED BETWEEN WATER LINES AND TREE PLANTING.
- 18. ALL WATER LINES SHALL HAVE A MINIMUM OF 4' COVER.
- 19. ALL WATER LINES SHALL BE DUCTILE IRON PIPE CLASS 52, UNLESS OTHERWISE
- MEGALUGS SHALL BE USED TO RESTRAIN MECHANICAL JOINT FITTINGS AND FIELD LOCK GASKETS TO RESTRAIN PUSH-ON JOINTS WITHIN 40 OF BOTH HORIZONTAL AND VERTICAL BENDS, TEES AND CROSSES IN WATER LINES 12" IN DIAMETER AND SMALLER.

#### GENERAL NOTES CONT'D:

- 21. VALVES IN THE EXISTING WATER SYSTEM MAY NOT PASS A PRESSURE TEST AS REQUIRED BY LCA. IF THE CONTRACTOR HAS CONNECTED HIS WATER LINE TO THE EXISTING SYSTEM AND THE PRESSURE TEST FAILS, LCA MAY AT ITS OPTION. REQUIRE THE CONTRACTOR TO DISCONNECT THE TWO LINES, AND TEMPORABLY BLOCK AND PRESSURE TEST THE NEW WATER LINE SEPARATELY TO ASSURE LCA THAT THE NEW WATER LINE PASSES THE PRESSURE TEST THE NEW WATER LINE SEPARATELY TO ASSURE LCA THAT THE NEW WATER LINE PASSES THE PRESSURE TEST.
- 22. EXISTING SYSTEM VALVES MAY HAVE VARIOUS DEGREES OF LEAKAGE, CONTRACTOR SHALL NOT ASSUME DRY CONDITIONS AT CONNECTIONS
- 23. SET ALL STRUCTURES, BOXES, MANHOLES, ETC. TO GRADE PRIOR TO ROAD SURFACE
- 4. IF SEVERAL SECTIONS OF WATER MAIN THAT CAN BE ISOLATED BY VALVING ARE TESTED SIMULTANEOUSLY, THEIR TOTAL LEARAGE WILL BE BASED ON THE ALLOWABLE LEAKAGE OF THE SHORTEST SEGMENT OF MAIN THAT CAN BE ISOLATED.
- WHERE A SIDEWALK ABUTS CURBING, INSTALL FIRE HYDRANT WITH PUMPER NOZZLE FLUSH WITH THE BACK OF CURB.
- THE CONTRACTOR MUST RESTRICT HIS WORK TO THE RIGHT-OF-WAY LINES, EXCEPT WHERE A TEMPORARY CONSTRUCTION EASEMENT IS PROVIDED.
- 27. THE CONTRACTOR WILL BE RESPONSIBLE FOR ALL SURFACE RESTORATION AS INDICATED ON THE PLANS
- 28. NO BUSH OR TREE SHALL BE DUG OUT WITHOUT THE APPROVAL OF THE PROPERTY OWNER, WHERE APPROVAL IS OBTAINED, THE CONTRACTOR SHALL TEMPORARILY REMOVE AND PROTECT BUSHES AND SMALL TREES WHERE THEY WILL BE DAMAGED DURING CONSTRUCTION, AND HE SHALL REPLANT THEM AFTER HIS WORK HAS PROGRESSED BEYOND THAT I COLATION.
- 29. ALL WATER LINES MUST BE SURVEY STAKED PRIOR TO CONSTRUCTION, WITH STAKES OR NAILS PROVIDED AT INTERVALS OF 50 FEET, AS WELL AS AT ALL FITTING LOCATIONS AND UTILITY CROSSINGS, STAKES SHALL BE MARKED WITH WRITTEN ELEVATIONS FOR BOTTOM OF WATER PIPE (INCLUDES BOTTOM OF OTHER UTILITY PIPE ELEVATIONS AND IPPE SIZE AT ALL UTILITY CROSSINGS TO VERIFY CLEARANCE, FIRE HYDRANTS AND WATER SERVICE CURB STOPS MUST ALSO BE FIELD STAKED AND ELEVATIONS INDICATING TOPO-PG-CURB OR FINISHED GRADE SHOWN ON THE PLANS.
- 30. ANY GRANITE CURBING SHALL BE PROTECTED OR REMOVED/PRESERVED AND
- 31. THE INSTALLATION AND USE OF INSERTION VALVES AND LINE STOPS OTHER THAN WHAT IS SHOWN ON PLANS REQUIRES PERMISSION FROM ENGINEER OR OWNER.
- 32. CONTRACTOR TO PROVIDE OWNER WITH A SCHEDULE A MINIMUM OF FIVE (5) WORKING DAYS IN ADVANCE OF ANY SHUT DOWNS INCLUDING AFFECTED WATER SERVICES.
- 33. LEAK NAMING CONVENTIONS REFERENCED FROM NOVEMBER 2022 SMARTBALL INSPECTION REPORT
- 34. DUE TO THE PROXIMITY OF THE PROJECT TO KNOWN OCCURRENCES OF THE NORTHERN RED-BELLIED TURTLE, NESTING ARES FOR THE NORTHERN RED-BELLIED TURTLE COULD BE PRESENT WITHIN THE PROPOSED DISTURBANCE AREA, THEREFORE, IT IS RECOMMENDED THAT NO CONSTRUCTION BE CONDUCTED DURING THE TURTLE IN SETTING AND HATCHING SEASON, MAY 15TH TO OCTOBER 15TH, THIS IS
- FOR SITES 2, 3 AND 4 ONLY.

  34.1. IF CONSTRUCTION IS DURING THIS PERIOD IS REQUIRED, DOUBLE SILT FENCE
  SHALL BE INSTALLED AROUND THE PERIMETER OF THE DISTURBED AREA AS
  SHOWN ON THE SITE PLANS,
- 35. IF ANY CONSTRUCTION WILL OCCUR DURING THE NESTING AND HATCHING SEASON, THEN THE FOLLOWING MEASURES WILL BE NECESSARY IN ORDER TO AVOID IMPACTS TO THE RED-BELLIED TURTLES DURING THE CONSTRUCTION OF THIS PROJECT:

  35.1. A SILT FENCE BARRIER SHOULD BE PLACED AT THE EDGE OF THE PROPOSED
- 35.1. A SLIT FENCE BARRIER SHOULD BE PLACED AT THE EDGE OF THE PROPOSED AREA AO FOISTURBANCE, IN BETWEEN THE WATERWAY AND THE WORK AREA, TO PREVENT TURTLES FROM ACCESSING ACTIVE WORK ZONES IN THE SECRESHOULD BE INSTALLED DURING THE INACTIVE PERIOD OF THE RED-BELLIED TURTLE (OCTOBER 15 MAY 15) SO THAT ACTIVE THE RED SHOULD BE INSPECTED AND CLEAR THAT THE PROPED IN THE WORK ZONE. THE FENCE SHOULD BE INSPECTED AND CLEAR THE PROPED IN THE WORK ZONE. THE FENCE SHOULD BE INSPECTED AND CLEAR CONSTRUCTION PLREAS NOTE THAT SIKE SOCKS DO NOT PROVIDE A SUFFICIENT BARRIER TO TURTLE MOVEMENTS. A FENCE MUST BE USED AND BURIED INTO THE SURBITATE TO PREVENT ACCESS.
- 35.2. ANY TURTLE FOUND ON SITE SHOULD BE PHOTOGRAPHED AND A QUALIFIED NORTHERN RED-BULLIED TURTLE BIOLOGIST SHOULD BE CONTACTED TO RELOCATE TO THE NEAREST AQUATIC HABITAT. ADDITIONALLY, THE PFBC MUST BE CONTACTED WITHIN 48 HOURS OF THE FIND.

PENNDOT DISTRICT	COUNTY	ROUTE	SECTION	SHEE	T No.
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REVISION NUMBER	BER REVISIONS				BY

#### LEVEE GENERAL NOTES:

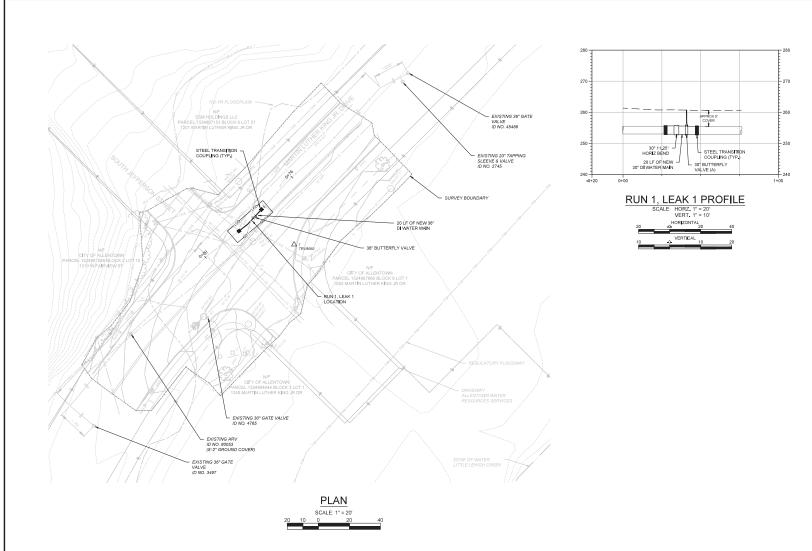
 PRIOR TO COMMENCEMENT OF ANY WORK AT SITE 4. (AT LEAST 15 DAYS IN ADVANCE OF ANY EXCAVATION, PIPE INSTALLATION, OR LEVEE RESTORATION) ON FLOOD CONTROL LANDS, AND IMMEDIATELY UPON COMPLETION, WRITTEN NOTICE MUST BE CONSTRUCTED.

ROBERT YOUNAS, PWS REGULATORY BRANCH U.S. ARMY CORPS OF ENGINEERS - PHILADELPHIA DISTRICT 1650 ARCH STREET, 5TH FLOOR PHILADELPHIA, PA 19103-2004 (215) 656-6729 (OFFICE) (267) 854-2049 (CELL) ROBERT, YOUNAS, 2001-SAC JAMY, MIL

ALONG WITH THE WRITTEN NOTICE. THE CONSTRUCTION CONTRACTOR'S POINT OF CONTACT. AND A SCHEDULE CONTAINING CONSTRUCTION ACTIVITIES SUCH AS YELLOWARD AND A SCHADULE CONTRIOL LANDS SHALL BE SUMMITTED. INVITE COPPS REPRESENTATIVE TO THE RE-CONSTRUCTION MEETING. A CORPS REPRESENTATIVE WILL VISIT THE SITE DURING EXCAVATION, BACKELLING AND LEVER RESTORATION ACTIVITIES.

- 2. UNDERGROUND UTILITY LINES OF ANY TYPE THAT CROSS THE LEVEE SHALL HAVE MARKERS PLACED ON THE SURFACE TO INDICATE LOCATION, TYPE, AND USAGE OF THE LINE
- COMPLY WITH APPLICABLE FEDERAL, STATE AND LOCAL ENVIRONMENTAL REGULATIONS
- 4. NO EQUIPMENT OR MATERIALS MAY BE STORED OR STOCKPILED WITHIN 15 FEET OF THE LEVEE TOE, FLOODWALL, OR ANY OTHER FLOOD PROTECTION PROJECT FEATURES WITHOUT PRIOR CONSENT FROM THE CORPS.
- ANY DAMAGE TO FEDERAL FLOOD CONTROL STRUCTURES RESULTING FROM THIS PROPOSED CONSTRUCTION SHALL BE REPORTED TO THE CORPS REPRESENTATIVE FOR THIS PROJECT, AND REPAIRED TO THEIR SATISFACTION.
- 6. ALL DISTURBED AREAS SHALL BE RESTORED AND FLOOD CONTROL LANDS SHOULD BE CLEARED OF ALL MATERIALS AND DEBRIS UPON COMPLETION OF WORK, TEMPORARY SEDIMENT CONTROL FEATURES SHALL BE REMOVED. NEWLY SEEDED AREAS THAT ARE DISTURBED SHOULD BE RESEEDED.
- THE CONTRACTOR SHALL SUBMIT A FLOOD RESPONSE PLAN FOR USACE APPROVAL SUBMIT A DETAILED PLAN FOR MANAGING FLOOD EVENTS, OUTLINING STEPS FOR SECURING THE EXCAVATION SITE IN THE EVENT OF RISING WATER OR FLOOD FORECASTS, INCLUDE MEASURES FOR STOOKPLING MATERIALS FOR EMERGENCY BACKFILLING, PROVIDING PUMPS FOR DEWATERING, ESTABLISHING NOTHFICATION PROCEDURES, AND ENSURING THAT ALL GOUPIMENT IS SEQUEDED OR REMOVED.

<b>GANNETT FLEMING</b> HARRISBURG, PENNSYLVANIA					
LEHIGH COUNTY AUTHORITY - ALLENTOWN DIVISION ALLENTOWN, PENNSYLVANIA					
CIVIL/SITE GENERAL NOTES					
30" AND 36" EAST SIDE TRANSMISSION MAIN REPAIRS					
DATE	DESIGNED	CADD	CHECKED	APPROVED	SCALE
DECEMBER 2024	J.R.W.	J.W.Z.	E.J.S.	M.T.B.	AS NOTED
JOB No. 75202		PERM	IT SUBMI	SSION	



PENNDOT DISTRICT	COUNTY	ROUTE	SECTION	SHEET No.		
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REVISION NUMBER	R REVISIONS			DATE	BY	

#### SHEET NOTES

- EXISTING TOPOGRAPHY IS BASED ON FIELD RUN SURVEY COMPLETED BY AASA LAND SURVEYORS, DATED FERDIARY 2024. AND AVAILABLE SIS EN PLAMMETRIC MAPPING, THE COORDINATES SHOWN ARE BASED ON PENNSY UNANA STATE REFERENCE SYSTEMS NAD 83 (ADULSTED 2011), ALL VERTICAL CONTROLS ARE BASED ON NAVD 88.
- 2. THE TRANSMISSION MAIN REPLACEMENT LOCATION IS BASED ON LEAK LOCATIONS DESCRIBED IN THE 2022 SMARTBALL INSPECTION REPORT AND ARE CONSIDERED APPROXIMATE. THE CONTRACTOR SHALL BE RESPONSIBLE FOR IDENTIFYING THE ACTUAL LEAK DOCATION IN THE FIELD PRIOR TO REPAIRS. A MINMUM OF 10 LINEAR FEET OF TRANSMISSION MAIN SHALL BE REPLACED ON BOTH SIDES OF THE LEAK.
- THE CONTRACTOR SHALL UTILIZE DUCTILE IRON PIPE JOINT AND COUPLING DEFLECTIONS, AS REQUIRED, TO REPLACE THE LEAKING PIPE SECTIONS. SEE SECTION 02510 FOR MAXIMUM ALLOWABLE DEFLECTIONS.

HORIZONTAL & VERTICAL CONTROL							
POINT#	DESCRIPTION	NORTHING	EASTING	ELEVATION			
- 1	TRV MAG	467912.63	2598650.30	358.26			
2	TRV NS	468089.90	2598825.16	358.30			

### VALVE CLOSURES:

- 36" GV #3497
- 2. 30" GV #4765 3. 20" TAPPING SLEEVE #2745 4. 36" GV #45466

	GANNETT FLEMING HARRISBURG, PENNSYLVANIA
LEI	HIGH COUNTY AUTHORITY - ALLENTOWN DIVIS
	ALLENTOWN, PENNSYLVANIA

ISION

SITE 1 TRANSMISSION MAIN PLAN

		30" AND	36" EAS	ST SIDE				
	TRANSMISSION MAIN REPAIRS							
	DATE	DESIGNED	CADD	CHECKED	APPROVED	SCALE		
	NOVEMBER 2024	J.R.W.	J.W.Z.	E.J.S.	M.T.B.	AS NOTE		
	JOB No.							
24	75202		PERM	IT SUBMI	SSION			

DATE 3/2024 BY J. ZAGOTTI GANNETT FLEMING, INC.

ONE CALL SYSTEM TELEPHONE NUMBER: 1-800-242-1776 PROJECT ONE CALL SERIAL NUMBER: 20240082321 & 20240100212

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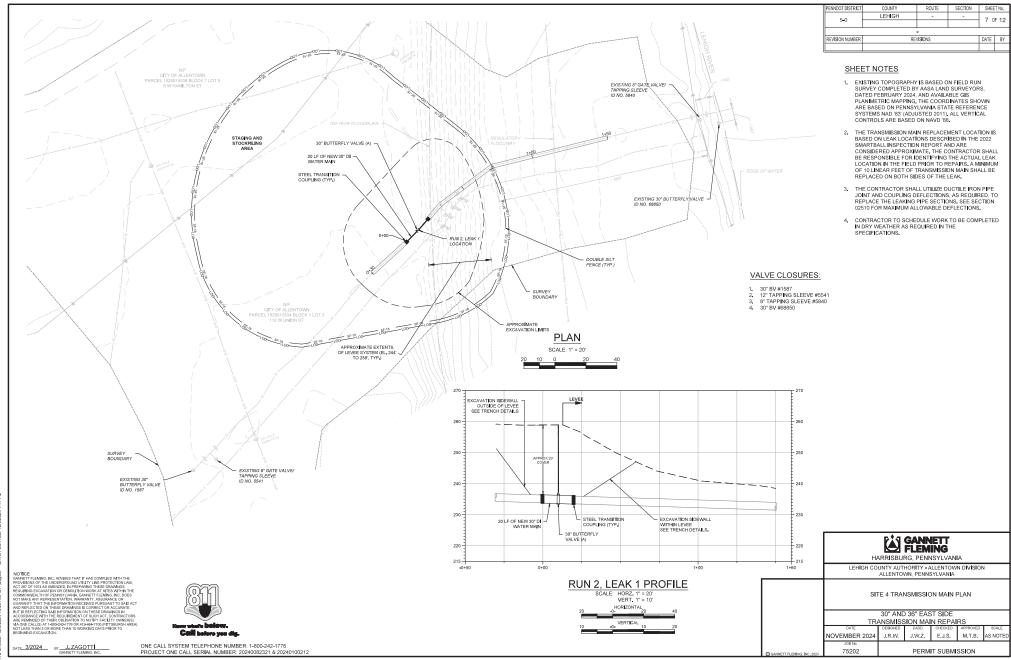
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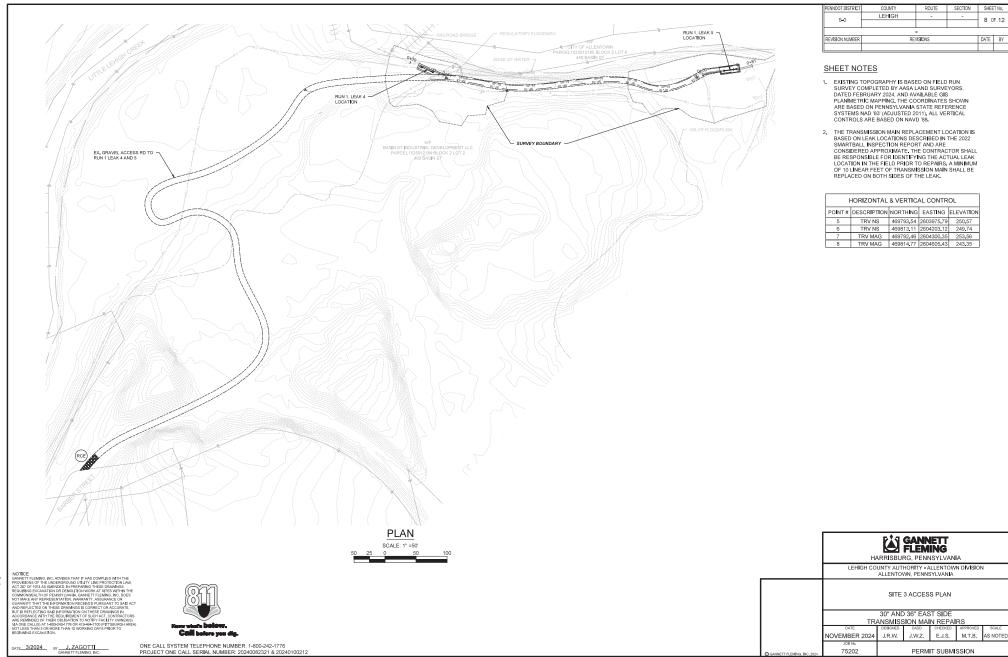
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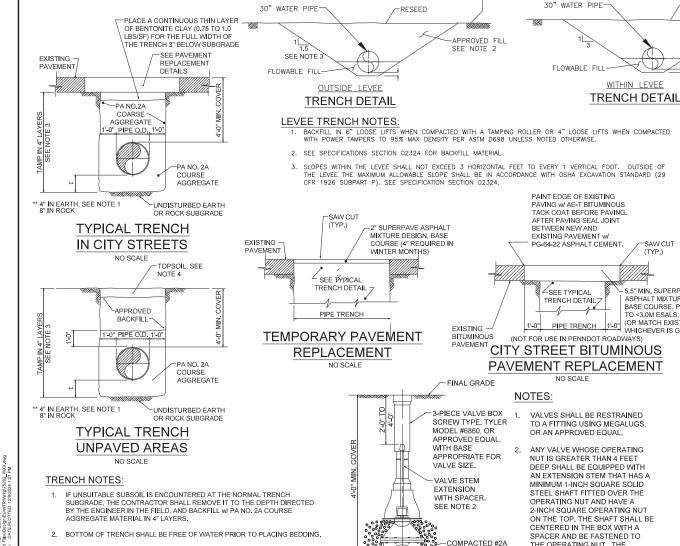
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IF VIBRATORY COMPACTION EQUIPMENT IS USED BACKFILL MAY BE IN 8"

CONTRACTOR SHALL SHORE THE TRENCH IN ACCORDANCE WITH SECTION

6. PERFORM BACKFILL COMPACTION TESTS AS INDICATED IN PROJECT MANUAL

4. PROVIDE 4" OF TOPSOIL WHERE SEEDING IS REQUIRED.

02255 OF THE SPECIFICATIONS.

EXISTING GRADE

MODIFIED

CRUSHED STONE

MAIN LINE VALVE DETAIL

NO SCALE

EXTENSION KIT SHALL BE

MANUFACTURED BY THE VALVE MANUFACTURER OR APPROVED

PROVIDE JOINT TYPE AND MATERIAL AS PER PUB. 408, SECTION 409.3(K). EXISTING -BITUMINOUS PAVEMENT 4" MIN. SUPERPAVE ASPHALT MIXTURE DESIGN, BINDER DOWEL NEW COURSE PG 64S-22 3 0 TO CONCRETE 30M ESALS 19 5MM MIX TO EXISTING CONCRETE. TYPE, NUMBER AND SPACING PA NO. 2A PER PENNDOT COARSE REQUIREMENT AGGREGATE EXISTING RIGID CONCRETE PIPE TRENCH CLASS AA CONCRETE PAVEMENT 9" DEPTH TOP LEVEL w/ EXISTING CONCRETE

-FXISTING GRADE

APPROVED FILL

SEE NOTE 2

LEHIGH

REVISIONS

9 OF 12

DATE BY

### NOTES:

-SAW CUT

-5.5" MIN. SUPERPAVE

BASE COURSE, PG 64S-22 0.3

TO <3.0M ESALS, 25MM MIX

WHICHEVER IS GREATER)

(OR MATCH EXISTING DEPTH

(TYP.)

RESEED

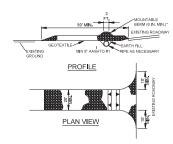
- CLASS AA ACCELERATED CONCRETE RESTORATION SHALL COMPLY WITH THE LATEST REQUIREMENTS OF FORM 408 AND PUBLICATION #72 STANDARDS FOR ROADWAY CONSTRUCTION DRAWINGS.
- 2. SURFACE OF REPLACEMENT CONCRETE TO BE AT SAME ELEVATION AS
- ASPHALT MIXTURE DESIGN, 3. FOR LIMITS OF CONCRETE REPLACEMENTS, SEE DEPT. REG. 459.8(i)(4) a. EXISTING REINFORCED CEMENT CONCRETE PAVEMENTS THAT ARE OPENED FOR MORE THAN 6 FEET IN FITHER LENGTH OR WIDTH REINFORCING STEEL EXPANSION TIE BOLTS AND LOAD TRANSFER DEVICES SHALL BE PLACED IN ACCORDANCE WITH ROADWAY CONSTRUCTION STANDARD RC-26
  - b. IF AN OPENING IS MADE IN A BITUMINOUS CONCRETE PAVEMENT WITHIN 3 FEET FROM THE EDGE OF PAVEMENT OR OTHER LONGITUDINAL JOINT OR OPENING, THE SURFACE RESTORATION SHALL BE EXTENDED TO THE EDGE OF PAVEMENT OR OTHER LONGITUDINAL JOINT OR OPENING.
  - c. LOCATION OF ALL FINAL CONCRETE PAVING JOINTS WILL BE DETERMINED IN THE FIELD BY THE INSPECTOR ASSIGNED BY THE DEPARTMENT BASED ON LOCATION AND CONSTRUCTION OF EXISTING PAVEMENT JOINTS.
  - 4. CUT BACK IS NOT REQUIRED BEYOND A TRANSVERSE OR LONGITUDINAL JOINT OR CURB.

# BITUMINOUS ROADWAY W/ CONCRETE BASE PAVEMENT REPLACEMENT

NO SCALE

	<b>EANNETT FLEMING</b> HARRISBURG, PENNSYLVANIA						
	LEH <b>I</b> GH CO	LEHIGH COUNTY AUTHORITY - ALLENTOWN DIVISION ALLENTOWN, PENNSYLVANIA					
	PAVEMENT REPLACEMENT SECTIONS, TRENCH AND PAVING, AND MISCELLANEOUS DETAILS						
	TR	30" AND 36" EAST SIDE TRANSMISSION MAIN REPAIRS					
	NOVEMBER 2024	J.R.W.	J.W.Z.	E.J.S.	M.T.B.	SCALE AS NOTED	
GANNETT FLEMING, INC., 2024	JOB No. 75202		PERM	IT SUBMI	SSION		

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\* MOUNTABLE BERM USED TO PROVIDE PROPER COVER FOR PIPE NOTES:

- RUNOFF SHALL BE DIVERTED FROM ROADWAY TO A SUITABLE SEDIMENT REMOVAL BMP PRIOR TO ENTERING ROCK CONSTRUCTION ENTRANCE.
- MOUNTABLE BERM SHALL BE INSTALLED WHEREVER OPTIONAL CULVERT PIPE IS USED AND PROPER PIPE COVER AS SPECIFIED BY MANUFACTURER IS NOT OTHERWISE PROVIDED, PIPE SHALL BE SIZED APPROPRIATELY FOR SIZE OF LITCH BEING CROSSED.
- MAINTENANCE ROCK CONSTRUCTION ENTRANCE THOMESS SHALL BE CONSTRUCT. MAINTAINED TO THE SPECIPIED DIMENSIONS BY ADDIONS ROCK STOCKING EAUL BE MAINTAINED ON THE FORT THIS PROPOSE. ALL STOCKING EAUL BE MAINTAINED ON THE FORT THIS PROPOSE. ALL STOCKING EAUL BE MAINTAINED ON THE THOMESON THE FORT THE STOCKING EAUL BE CONSTRUCTION OF THE MARGINATELY, IF EXCESSIVE AND ADDIONAL TO THE CONTROLLED ON THE CONTROLLED O UNTIL CONDITION IS ALLEVIATED OR INSTALL WASH RACK, WASHING THE ROADWAY OR SWEPTING THE DEPOSITS INTO ROADWAY DITCHES, SEWERS, CULVERTS, OR OTHER DRAINAGE COURSES IS NOT ACCEPTABLE.

# STANDARD CONSTRUCTION DETAIL #3-1 ROCK CONSTRUCTION ENTRANCE

NO SCALE

ASTM D-4884

ASTM D-4632

ASTM D-4833

ASTM D-3786

ASTM D-4751

1. LOW VOLUME FILTER BAGS SHALL BE MADE FROM NON-WOVEN GEOTEXTILE MATERIAL SEWN WITH HIGH

LARGER THAN 150 MICRONS, HIGH VOLUME FILTER BAGS SHALL BE MADE FROM WOVEN GEOTEXTILES

TEST METHOD MINIMUM STANDARD

2. A SUITABLE MEANS OF ACCESSING THE BAG WITH MACHINERY REQUIRED FOR DISPOSAL PURPOSES

3. BAGS SHALL BE LOCATED IN WELL-VEGETATED (GRASSY) AREA, AND DISCHARGE ONTO STABLE

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 LOLD IN WELLY-DES LATED (EXASSY) AREA AND JIST-HARGE ONLY STATED IN THE REPOSION RESTAT AREAS, WHERE THIS IS NO POSSIBLE, A GEOTEXTILE UNDERLAYMENT AND FLOW PATH SHALL BE PROVIDED, BAGS MAY BE PLACED ON INLIFER STONE TO INDEED AS DISCHARGE CAPACITY, BAGS SHALL NOT BE PLACED ON SLOVES GREATER THAN 1%, FOR SLOVES EXCEEDING 5%, CLEAN ROCK OR OTHER NON-ERODIBLE AND NON-POLLUTING MATERIAL MAY BE PLACED UNDER THE BAG TO REDUCE SLOVE STOPE STEEDERS.

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

THE PUMPING RATE SHALL BE NO GREATER THAN 750 GPM OR 1/2 THE MAXIMUM SPECIFIED BY THE MANUFACTURER, WHICHEVER IS LESS. PUMP INTAKES SHALL BE FLOATING AND SCREENED.

60 LB/IN

205 LB

110 LB

350 PSI

80 SIEVE

STRENGTH DOUBLE STITCHED IN TYPE SEAMS. THEY SHALL BE CAPABLE OF TRAPPING PARTICLES

FILTER BAG NOTES:

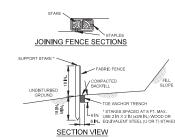
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GRAB TENSILE

PUNCTURE

MULLEN BURST

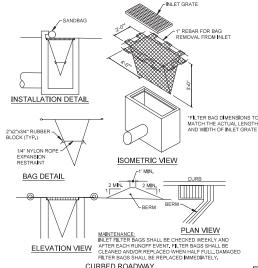
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#### NOTES:

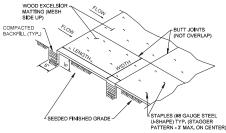
- FABRIC SHALL HAVE THE MINIMUM PROPERTIES AS SHOWN IN TABLE 4.3 OF THE PAIDEP EROSION CONTROL MANUAL.
- 2. FABRIC WIDTH SHALL BE 30 IN. MINIMUM. STAKES SHALL BE HARDWOOD OR EQUIVALENT
- SILT FENCE SHALL BE PLACED AT LEVEL EXISTING GRADE. BOTH ENDS OF THE FENCE SHALL BE EXTENDED AT LEAST 8 FEET UP SLOPE AT 45 DEGREES TO THE MAIN FENCE ALIGNMENT.
- SEDIMENT SHALL BE REMOVED WHEN ACCUMULATIONS REACH HALF THE ABOVE GROUND HEIGHT OF THE FENCE
- ANY SECTION OF SILT FENCE WHICH HAS BEEN UNDERMINED OR TOPPED SHALL BE IMMEDIATELY REPLACED WITH A ROCK FILTER OUTLET (STANDARD CONSTRUCTION DETAIL # 4-5).
- FENCE SHALL BE REMOVED AND PROPERLY DISPOSED OF WHEN TRIBUTARY AREA IS PERMANENTLY STABILIZED.

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



CURBED ROADWAY

# FILTER BAG INLET PROTECTION - TYPE C



# **EXCELSIOR MATTING (WOOD) DETAIL**

NO SCALE

MAINTENANCE: NO SCALE
WOOD EXCELSIOR MATTING SHALL BE CHECKED REGULARLY. WORN MATTING AND LOOSE OR MISSING STAKES SHALL BE REPLACED IMMEDIATELY. MAINTAIN SOIL AROUND MATTING BY REFILLING WASHED OUT AREAS AND FERTILIZING AND SEEDING AS NECESSARY TO ACHIEVE PERMANENT STABILIZATION

\*FILTER BAG DIMENSIONS TO MATCH THE ACTUAL LENGTH AND WIDTH OF INLET GRATE -INLET GRATE EXPANSION RETRAINT BAG REMOVAL FROM INLET (1/4" NYLON ROPE) 2"x2"x3/4" RUBBER BLOCK INSTALLATION DETAIL ~ 2:1 MAX. ISOMETRIC VIEW

BERM

COLINTY

LEHIGH

SHEET No.

10 OF 12

DATE BY

ENNOCT DISTRICT

VEGETATION (TYP.) FLOW-PLAN VIEW SECTION VIEW STANDARD CONSTRUCTION DETAIL #4-16 FILTER BAG INLET PROTECTION - TYPE M INLET

FLOW |

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NOTES:

EARTHEN BERM TO BE STABILIZED

WITH TEMPORARY

OR PERMANENT

- 1. MAXIMUM DRAINAGE AREA = 1/2 ACRE.
- INLET PROTECTION SHALL NOT BE REQUIRED FOR INLET TRIBUTARY TO SEDIMENT BASIN OR TRAP, BERMS SHALL BE REQUIRED FOR ALL INSTALLATIONS.
- 3 ROLLED EARTHEN BERM IN ROADWAY SHALL BE MAINTAINED LINTIL ROLLED EARTHEN BERM IN ROADWAY SHALL BE MAINTAINED DIT IL.
  ROADWAY IS STONED, ROAD SUBBASE BERM ON ROADWAY SHALL BE
  MAINTAINED UNTIL ROADWAY IS PAVED, EARTHEN BERM IN CHANNEL
  SHALL BE MAINTAINED UNTIL PERMANENT STABILIZATION IS COMPLETED
  OR REMAIN PERMANENTLY.
- 4. AT A MINIMUM, THE FABRIC SHALL HAVE A MINIMUM GRAB TENSILE STRENGTH OF 120 LBS., 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 ON A WEEKLY BASIS AND INLET INLES BAILS SHALL BE (INSPEC) ELD OVIA WEEKLY BAISS AND AFTER EACH RUNOFF EVENT. BAGS SHALL BE MINTED AND RINISED OR REFLACED WHEN HALF FULL OR WHEN FLOW CAPACITY HAS BEEN REDUCED SO AS TO GAUSE FLOODING OR BYPASSING OF THE INLET. DAMAGED OR CLOGGED BAGS SHALL BE REPLACED. A SUPPLY SHALL BE MAINTAINED ON SITE FOR REPLACEMENT OF BAGS, ALL NEEDED REPARTS SHALL BE INITIATED IMMEDIATELY AFTER THE INSPECTION, DISPOSE 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.

# DISCHARGE HOSE -CLAMPS ~ PUMP HEAVY DUTY LIFTING STRAPS (RECOMMENDED) DISCHARGE HOSE WELL VEGETATED, GRASSY AREA

WELL VEGETATED GRASSY AREA

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

GANNETT FLEMING HARRISBURG, PENNSYLVANIA LEHIGH COUNTY AUTHORITY - ALLENTOWN DIVISION ALLENTOWN PENNSYLVANIA EROSION AND SEDIMENTATION CONTROL DETAILS 30" AND 36" EAST SIDE TRANSMISSION MAIN REPAIRS NOVEMBER 2024 J.R.W. E.J.S. M.T.B. AS NOTE J.W.Z.

6. FILTER BAGS SHALL BE INSPECTED DAILY. IF ANY PROBLEM IS DETECTED, PUMPING SHALL CEASE IMMEDIATELY AND NOT RESUME UNTIL THE PROBLEM IS CORRECTED.

7. PWFBs ARE NOT CONSIDERED ABACT AND MUST HAVE A COMPOST FILTER SOCK INSTALLED DOWNSLOPE OF PWFB's DISCHARGE.

- 1. EROSION AND SEDIMENTATION CONTROL MUST BE CONSTRUCTED, STABILIZED, AND FUNCTIONAL BEFORE SITE DISTURBANCE WITHIN
- 2. ALL EXCAVATION FOR VALVE AND LINESTOP INSTALLATION SHALL BE LIMITED TO THE AMOUNT THAT CAN BE EXCAVATED, INSTALLED BACKFILLED AND STABILIZED WITHIN ONE WORKING DAY, ALL EXCAVATED MATERIAL SHALL BE DEPOSITED ON THE UPSLOPE SIDE OF
- 3. ANY DISTURBED AREAS NOT SUBJECT TO CONSTRUCTION TRAFFIC, WILL IMMEDIATELY RECEIVE A TEMPORARY SEEDING AND MULCHING, IF THE SEASON PREVENTS THE ESTABLISHMENT OF A TEMPORARY COVER, THE DISTURBED AREAS WILL BE MULCHED WITH STRAW OR EQUIVALENT MATERIAL, AT A RATE OF 3 TONS PER ACRE.
- IMMEDIATELY FOLLOWING INTIAL DISTURBANCE OR ROUGH GRADING, ALL CRITICAL AREAS SUBJECT TO EROSION (I.E. STEEP SLOPES AND ROADWAY EMBANKMENTS) WILL RECEIVE A TEMPORARY SEEDING IN COMBINATION WITH STRAW MULCH OR SUITABLE EQUIVALENT, AT A RATE OF 3 TONS PER ACRE. ON SLOPES 3:1 OR STEEPER, TEMPORARY SEEDING SHALL BE STABILIZED WITH WOOD EXCELSION
- 5. PERMANENT VEGETATION TO BE SEEDED OR SODDED ON ALL EXPOSED AREAS IMMEDIATELY AFTER FINAL GRADING, MULCH TO BE USED AT RATE OF 3 TONS PER ACRE FOR PROTECTION UNTIL SEEDING IS ESTABLISHED. EXCELSIOR MATTING WILL BE USED ON ALL SLOPES 3:1 OR STEEPER AND WITHIN DRAIN CHANNEL.
- UPON COMPLETION OF AN EARTH DISTURBANCE ACTIVITY OR ANY STAGE OR PHASE OF AN ACTIVITY, THE OPERATOR SHALL STABILIZE IMMEDIATELY THE DISTURBED AREAS TO PROTECT FROM ACCELERATED EROSION, DURING NON-GERMINATING PERIODS, MULCH MUST BE APPLIED AT THE SPECIFIED RATES, DISTURBED AREAS WHICH ARE NOT AT FINISHED GRADE AND WHICH WILL BE REDISTURBED WITHIN 1 YEAR, MAY BE STABILIZED IN ACCORDANCE WITH TEMPORARY SEEDING SPECIFICATIONS, DISTURBED AREAS, WHICH ARE EITHER AT FINISHED GRADE OR WILL NOT BE REDISTURBED WITHIN ONE YEAR, MUST BE STABILIZED IN ACCORDANCE WITH PERMANENT SEEDING SPECIFICATIONS.
- 7. TEMPORARY AND PERMANENT SEEDING RATES WILL BE AS FOLLOWS:

ANNUAL RYEGRASS APPLICATION RATE: TEMPORARY SPECIES:

FERTILIZER TYPE: 10-20-20 140 LBS/1 000 SV FERTILIZER APPL. RATE: 1 TON PER ACRE

SEEDING DATES: MARCH 15 TO OCTOBER 15

NOTE: TEMPORARY SOIL STABILIZATION BEYOND THE SEEDING DATES WILL BE WITH STRAW MULCH OR SUITABLE EQUIVALENT AS REFERENCED IN NOTES 3 AND 4.

PERMANENT SPECIES: (SEEDING DATES, MARCH 1 TO JUNE 1 & AUGUST 1 TO OCTOBER 1)

LAWN AREA (MIXTURE NO	. 1)			
SPECIES IN MIX	MIX % BY WEIGHT	MIN. % PURITY	GERMINATION	MAX. % WEED SEED
RED FESCUE CHEWINGS	30	95	85	0.50
KENTUCKY BLUEGRASS	50	85	80	0.40
RED TOP	3	90	90	0.75
PERENNIAL RYE GRASS	17	90	90	0.50
STEEP SLOPES (MIXTURE ANNUAL RYE	NO. 2) (3:1 OR STEEPER) 100	95	90	0.15

ANY THRESHED GRAIN OR TALL HAY GRASS STALKS FREE OF SEED BEARING STALKS, WEEDS OR ROOTS HARMFUL

EXCELSIOR MATTING - SOIL RETENTION BLANKET: MAT OF WOOD EXCELSION WITH 80% OF THE FIBERS 8" OR LONGER, AVERAGE WEIGHT 0.95 LBS, PER SQ, YD, REINFORCING MESH ON TOP SIDE AND SMOLDER RESISTANT.

SEEDING AND SOIL SUPPLEMENT MAY BE PERFORMED BY HYDROSEEDING (SUURRY) APPLICATIONS ALL APPLICATIONS MUST HAVE A MULCH BINDER. HYDROSEEDING SHALL BE PERFORMED BETWEEN MARCH 1 TO JUNE 1 & AUGUST

APPLICATION RATE LAWN AREA - 45 LBS, PER 1000 SQ, YD, AREA: STEEP SLOPES - 9 LBS, PER 1000 SQ, YD, AREA

FERTILIZER APPL. RATE: 140LBS/1000 SY FERTILIZER TYPE: 10-20-20

LIMING RATE: 4 TONS PER ACRE

- 8. A ROCK CONSTRUCTION ENTRANCE OF AASHTO #1 CLEAN STONE WILL BE PLACED AT CONSTRUCTION ENTRANCES, ENTRANCES SHALL BE 50 FT, MINIMUM IN LENGTH AND 20 FT, IN WIDTH, FILTER CLOTH IS REQUIRED PRIOR TO STONE PLACEMENT
- ANY CHANGES TO THE EROSION AND SEDIMENT CONTROL PLAN MUST MEET ALL CURRENT STATE EROSION AND SEDIMENT POLLUTION CONTROL REQUIREMENTS AS WELL AS DISTRICT REQUIREMENTS.
- 10. ALL WORK WILL BE DONE IN ACCORDANCE WITH CHAPTER 102, EROSION CONTROL REGULATIONS.
- 11. THE LEHIGH COUNTY CONSERVATION DISTRICT SHALL BE NOTIFIED 72 HOURS IN ADVANCE OF BEGINNING LAND DISTURBANCE
- 12. PUMPED WATER FILTER BAG SEDIMENT TRAP WILL BE USED AS REQUIRED FOR THE DEWATERING OF EXCAVATIONS.
- 13. INSTALL FILTER SOCK BARRIERS ON THE DOWNSLOPE SIDE OF ALL STOCK PILES.
- 14. THE CONTRACTOR SHALL BE RESPONSIBLE FOR REMOVAL OF ANY EXCESS MATERIAL AND MAKE SURE SITE(S) RECEIVING THE EXCESS MATERIAL HAS AN APPROVED EROSION CONTROL PLAN THAT MEETS THE CONDITION OF CHAPTER 102 AND/OR OTHER STATE AND FEDERAL REGULATIONS.
- 15. UNTIL THE SITE HAS ACHIEVED FINAL STABILIZATION THE CONTRACTOR SHALL PROPERLY IMPLEMENT, OPERATE AND MAINTAIN ALL THE UNIT. I HE SITE HAS ADMERVED FINAL STRABLECKTION THE CONTINUE OF STANDLE PROPERTY IMPLEMENT, DEFENTE AND MAINTAINS EST MANAGEMENT PRACTICES, AMMINITERIANCE STALL INCLUDE INSPECTIONS OF LEROSION AND SEMILENTAIN TO CONTROL AF EACH RUNOFF EVENT AND ON A WEEKLY BASIS, ALL PREVENTATIVE AND REMEDIAL MAINTENANCE WORK, INCLUDING CLEAN OUT, REPAIR, REPLACEMENT, RESPACIONING, RESECOND, REMULCHING, AND REMETTING, MUST BE TERFORMED IMMEDIATORIES.
- 16. AFTER FINAL SITE STABILIZATION HAS BEEN ACHIEVED, TEMPORARY EROSION AND SEDIMENTATION CONTROLS MUST BE REMOVED. REAS DISTURBED DURING REMOVAL OF THE CONTROLS MUST BE STABILIZED IMMEDIATELY.
- 17. AT THE END OF EACH WORKING DAY, ANY SEDIMENT TRACKED OR CONVEYED ONTO A PUBLIC ROADWAY WILL BE REMOVED AND REDEPOSITED ONTO THE CONSTRUCTION SITE. REMOVAL CAN BE COMPLETED THROUGH USE OF MECHANICAL OR HAND TOOLS, BUT MUST NEVER BE WASHED OFF THE ROAD BY USE OF WATER.

- 18. SEDIMENT REMOVED FROM E&SC CONTROLS AND FACILITIES SHALL BE DISPOSED OF IN LANDSCAPED AREAS OUTSIDE OF STEEP SLOPES, WETLANDS, FLOOD PLAINS OR DRAINAGE SWALES AND IMMEDIATELY STABILIZED OR PLACED IN
- 19. SHOULD LINEORESEEN EROSION CONDITIONS DEVELOP DURING CONSTRUCTION. THE CONTRACTOR SHALL TAKE ACTION. SHOULD ONFORESEEN EROSION CONTONS DESPITED DURING CONSTRUCTION. THE CONTRACTOR SHALL TAKE. TO REMEN'S DURING CONTONS AND TO PREVENT DAMAGE TO ADJACENT PROPERTIES AS A RESULT OF INGRESS RUNDEF ANDON SEDMENT DISPLACEMENT. STOCKPLES OF WOOD CHES, HAY BALES, CRUSHED STOME AND OT MULCHES SHALL BE HELD IN READMESS TO DEAL MIMEDIATELY WITH EMERGENCY PROBLEMS OF EROSION.
- 20. THE CONTRACTOR IS ADVISED TO RECOME THOROUGHLY FAMILIAR WITH THE PROVISIONS OF THE APPENDIX 64 FROSION CONTROL RULES AND REGULATIONS, TITLE 25, PART I, DEPARTMENT OF ENVISIONS OF THE APPENDIX OF SUBPART C, PROTECTION OF NATURAL RESOURCES, ARTICLE III, WATER RESOURCES, CHAPTER 103, EROSION
- 21. A COPY OF THIS EROSION AND SEDIMENTATION CONTROL REPORT AND PLANS MUST BE POSTED AT THE CONSTRUCTION
- 22. STORMWATER INLETS, WHICH DO NOT DISCHARGE TO SEDIMENT TRAPS OR BASINS, MUST BE PROTECTED UNTIL THE TRIBUTARY AREAS ARE STABILIZED
- 23. SEDIMENT MUST BE REMOVED FROM INLET PROTECTION AFTER EACH STORM EVENT.
- 24. STOCKPILE HEIGHTS MUST NOT EXCEED 35', STOCKPILE SLOPES MUST BE 2:1 OR FLATTER.
- 25. DIVERSION CHANNELS, SEDIMENTATION BASINS, SEDIMENT TRAPS, AND STOCKPILES MUST BE STABILIZED IMMEDIATELY.
- 26. HAY AND STRAW MULCH MUST BE APPLIED AT RATES OF AT LEAST 3.0 TONS PER ACRE.
- 27. AN AREA SHALL BE CONSIDERED TO HAVE ACHIEVED FINAL STABILIZATION WHEN IT HAS A MINIMUM OF 70% UNIFORM AN AREA SHALL BE CONSIDERED TO HAVE ACHIEVED FINAL STABILIZATION WHEN IT HAS A MINIMUM OF 1/09 UNIFORM.
  PERENNIAL VEGETATIVE OVER OR OTHER PERMANENT NON-VEGETATIVE COVER WITH A DENSITY SUFFICIENT TO RESIST ACCELERATED SURFACE EROSION AND SUBSURFACE CHARACTERISTICS SUFFICIENT TO RESIST SLIDING OR OTHER MOVEMENTS.
- 28. ALL EARTH DISTURBANCE ACTIMITIES SHALL PROCEED IN ACCORDANCE WITH THE FOLLOWING SEQUENCE, EACH STAGE SHALL BE COMPLETED IN COMPLIANCE WITH CHAPTER 102 REGULATIONS BEFORE ANY FOLLOWING STAGE IS INTIATED. CLEARING AND GRUBBING SHALL BE LUMITED ONLY TO THOSE AREAS DESCRIBED IN EACH STAGE.
- 29. AT LEAST 7 DAYS REFORE STARTING ANY EARTH DISTURBANCE ACTIVITIES. THE OPERATOR SHALL INVITE ALL CONTRACTORS INVOLVED IN THOSE ACTIVITIES, THE LANDOWNER, ALL APPROPRIATE MUNICIPAL OFFICIALS, THE EROSION AND SEDIMENTATION CONTROL PLAN PREPARER, AND A REPRESENTATIVE OF THE COUNTY CONSERVATION DISTRICT TO SCHEDULE AN ON-SITE PRE-CONSTRUCTION MEETING, ALSO, AT LEAST 3 DAYS BEFORE STARTING ANY EARTH DISTURBANCE ACTIVITIES, ALL CONTRACTORS INVOLVED IN THOSE ACTIVITIES SHALL NOTIFY THE PENNSYLVANIA ONE CALL SYSTEM INC. AT 1-800-242-1776 FOR BURIED UTILITIES LOCATION.
- 30. BEFORE IMPLEMENTING ANY REVISIONS TO THE EROSION AND SEDIMENT CONTROL PLAN OR REVISIONS TO OTHER PLANS WHICH MAY AFFECT THE EFFECTIVENESS OF THE E&S CONTROL PLAN. THE OPERATOR MUST RECEIVE APPROVAL OF THE REVISIONS FROM THE COUNTY CONSERVATION DISTRICT.
- 31. THE OPERATOR SHALL REMOVE FROM THE SITE, RECYCLE OR DISPOSE OF ALL BUILDING MATERIALS AND WASTES IN ACCORDANCE WITH THE DEPARTMENT'S SOLID WASTE MANAGEMENT REGULATIONS AT 25 PA CODE 260.1 ET SEQ. 271.1 E, SEQ. AND 287.1 ET SEQ.
- 32. BEFORE DISPOSING OF SOIL OR RECEIVING BORROW FOR THE SITE, THE OPERATOR MUST ASSURE THAT EACH SPOIL OR BORROW AREA HAS AN EROSION AND SEDMENT CONTROL PLAN APPROVED BY THE COUNTY CONSERVATION DISTRICT, AND WHIGH IS BEING IMPLEMENTED AND MAINTAINED ACCORDING TO CHAPTER 102 REGULATIONS. THE OPERATOR. SHALL ALSO NOTIFY THE COUNTY CONSERVATION DISTRICT IN WRITING OF ALL RECEIVING SPOIL AND BORROW AREAS
- 33. THE CONTRACTOR SHALL PROVIDE INLET PROTECTION DOWN SIDE STREETS WHERE THE POTENTIAL OF RUNOFF FROM
- 34. ALL INLETS AS SHOWN WITH TYPE 1 OR TYPE 2 INLET PROTECTION ARE WITHIN THE HALF ACRE DRAINAGE

#### PENNSYLVANIA DEPARTMENT OF ENVIRONMENTAL PROTECTION (CLEAN FILL POLICY)

- CONTRACTOR MUST CONFORM TO THE CLEAN FILL POLICY, EFFECTIVE APRIL 24, 2004, REFER TO PENNSYLVANIA DEPARTMENT OF ENVIRONMENTAL PROTECTION, BUREAU OF LAND RECYCLING AND WASTE MANAGEMENT, 34 PA BUILDETIN 2237 DEPID DOCUMENTING 258-2182-773 CONTRACTOR IS REQUIRED TO MEET THE "DUE DID IGENCE REQUIREMENTS OF THIS POLICY
- 2. 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 TERM INCLUDES SUIT, ROCK, STONE ACTIONS ACTION ACTION AND DEMOCRATION AND DEMOCRATION AND DEMOCRATION AND DEMOCRATION ACTION AND DEMOCRATION ACTIVITIES THAT IS SEPARABLE AROM OTHER WAS EARLD IS RECOGNIZABLE HAW THE REMOCES OF THE CONTROLLING WAS A CONTROLLING ACTIVITIES. THE TERM DOES NOT INCLUDE MATERIALS PLACED NOT INCLUDE MATERIALS PLACED NOT UNDEMOCRATION AND ACTIVITIES OF THE COMMONWEALTH UNILED SAPHALT TO BE ASPHALT TO BE ASPHALT TO BE CONTROLLING ASPHALT THAT HAS BEEN OFFICE OF THE CONTROLLING ASPHALT THAT HAS BEEN PROCESSED.
- CLEAN FILL IS AFFECTED BY A SPILL OF RELEASE OF A REGULATED SUBSTANCE: FILL MATERIALS AFFECTED BY A SPILL
  OF 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'.
- 4. ANY PERSON PLACING CLEAN FILL THAT HAS BEEN AFFECTED BY A SPILL OR RELEASE OF A REGULATED SUBSTANCE MUST USE FORM FP-DOI TO CERTIFY THE ORIGIN OF THE FILL MATERIAL AND THE RESULTS OF THE ANALYTICAL TESTING TO QUALIFY THE MATERIAL AS CLEAN FILL A COPY OF FORM FP-DOI CAN BE FOUND AT THE END OF THESE INSTRUCTIONS,
- 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, WISUAL PROPERTY INSPECTIONS. ELECTRONIC DATA BASE SEARCHES, REVIEW OF PROPERTY OWNERSHIP, REVIEW OF PROPERTY USE HISTORY, SANBORN ELECTIONS DATA BASE SEARCHES, REVIEW OF PROPERTY OWNERSHIP, REVIEW OF PROPERTY USE HIS TORY, SANBOR MAPS, ENMRONMENTAL QUESTIONNAIRES, TRANSACTION SCREENS, SANLYTICAL TESTING, ENVRONMENTAL ASSESSMENTS OR AUDITS, ANALYTICAL TESTING IS NOT A REQUIRED PART OF DUE DILIGENCE UNLESS VISUAL INSPECTION ANDIOR REVIEW OF THE PAST LAND USE OF THE PROPERTY INDICATES THAT THE FILL MAY HAVE BEEN SUBJECTED TO A SPILL OR RELEASE OF REGULATED SUBSTANCE. IF THE FILL MAY HAVE BEEN AFFECTED BY A SPILL OR SOBJECT OF A REGULATED SUBSTANCE, IT MUST BE TESTED TO DETERMINE IF IT QUALIFIES AS CLEAN FILL. TESTING 
  SHOULD BE PERFORMED IN ACCORDANCE WITH A PPENDIX A OF THE DEPARTMENTS POLICY MANAGEMENT OF FILL. FILL 
  MATERIAL THAT DOES NOT QUALIFY AS CLEAN FILL. THAT IS REQULATED FILL. RESULATED FILL RESULATED FILL STATE AND MUST BE MANAGED IN ACCORDANCE WITH THE DEPARTMENTS MUNICIPAL OR RESIDUAL WASTE REGULATIONS BASED ON 25 PACODE CHAPTERS 287 RESIDUAL WASTE MANAGEMENT OR 27T MUNICIPAL WASTE MANAGEMENT MUNICIPAL. THE MANAGEMENT MUNICIPAL WASTE MANAGEMENT MUNICIPAL WASTE MANAGEMENT OR 27T MUNICIPAL WASTE MANAGEMENT O APPLICABLE, THESE REGULATIONS ARE AVAILABLE ON-LINE AT WWW.PACODE.COM.

PENNDOT DISTRICT	COUNTY	ROUTE	SECTION	SHEET No.		
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	<u>.</u>					
REVISION NUMBER	REVISIONS				BY	

#### SUGGESTED SEQUENCE OF CONSTRUCTION

- THE CONTRACTOR SHALL SUBMIT EROSION AND SEDIMENTATION CONTROL PLANS FOR ALL STAGING AND/OR STOCKPILE AREAS TO THE LEHIGH COUNTY CONSERVATION DISTRICT FOR THEIR REVIEW AND APPROVAL A MINIMUM OF THIRTY DAYS IN ADVANCE OF ANY EARTH DISTURBANCE ACTIVITY, PROVIDE PROOF OF APPROVAL TO ENGINEER/OWNER
- THE FOLLOWING SEQUENCE SHALL BE COMPLETED AT EACH SITE, AS APPLICABLE, WORK AT SITE 4 SHALL BE COMPLETED FIRST SO THE NEW VALVE MAY BE USED TO ISOLATE THE TRANSMISSION MAIN FOR WORK AT OTHER SITES, ALTERNATIVELY, A NEW VALVE CLOSURE PLAN MAY BE SUBMITTED FOR
- 3. INSTALL ALL TEMPORARY EROSION AND SEDIMENTATION CONTROL FACILITIES, i.e. INLET PROTECTION TYPES 1 AND 2 AND SILT SOCK ASSOCIATED WITH THE DRAINAGE OF THE AREA TO BE DISTURBED AS SHOWN ON THE DRAWINGS
- 4. SAW CUT PAVEMENT AS NECESSARY TO COMPLETE WORK, BUT NO DISTURBANCE IS TO EXCEED RIGHT OF WAY LIMITS AND NO MORE THAN 5 DAYS IN ADVANCE OF CONSTRUCTION
- PERFORM TRENCH EXCAVATION TRANSMISSION MAIN REPLACEMENT, VALVE INSTALLATION, AND TRANSITION COUPLING INSTALLATION AS SHOWN ON THE PLANS.
- BACKFILL TRENCH AND PERFORM THE GRADING
- PERFORM HYDROSTATIC TESTING.
- 8. IN CRITICAL SLOPE AREAS WORK SHALL BE CONTINUOUS UNTIL STABILIZATION IS ACHIEVED.
- FINALIZE PERMANENT SITE RESTORATION AND SEEDING.
- REMOVE TEMPORARY EROSION AND SEDIMENTATION CONTROL FACILITIES AFTER SITE STABILIZATION, AN AREA SHALL BE CONSIDERED TO HAVE ACHIEVED FINAL STABILIZATION WHEN IT HAS A MINIMUM OF 70% UNIFORM PERENNIAL VEGETATIVE COVER OR OTHER PERMANENT NON-VEGETATIVE COVER WITH A DENSITY SUFFICIENT TO, RESIST ACCELERATED SURFACE EROSION AND SUBSURFACE CHARACTERISTICS SUFFICIENT TO RESIST SLIDING OR OTHER MOVEMENTS.

#### LAND DISTURBANCE SITE DATA

1 TOTAL AREA OF SITE 1.15 ACRES (50.000 SOLIARE FEET) TOTAL AREA OF DISTURBANCE: TOTAL CUT: 0.73 ACRES (31.800 SQUARE FEET)

0 CUBIC YARDS

5. IMPERVIOUS AREA ADDED 0 ACRES

> GANNETT FLEMING HARRISBURG PENNSYLVANIA LEHIGH COUNTY AUTHORITY - ALLENTOWN DIVISION ALLENTOWN PENNSYLVANIA EROSION AND SEDIMENTATION CONTROL NOTES 30" AND 36" FAST SIDE TRANSMISSION MAIN REPAIRS NOVEMBER 2024 J.R.W. M.T.B. AS NOTE J.W.Z. E.J.S.

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- AT LEAST 7 DAYS PRIOR TO STARTING ANY EARTH DISTURBANCE ACTIVITIES, INCLUDING CLEARING AND GRUBBING, THE OWNER ANDIOR OPERATOR SHALL INVITE ALL CONTRACTORS, THE LANDOWNER, APPROPRIATE MUNICIPAL OFFICIALS, THE EAS PLAN PREPARER, THE PCSM PLAN PREPARER, THE LICENSED PROFESSIONAL RESPONSIBLE FOR OVERSIGHT OF CRITICAL STAGES OF IMPLEMENTATION OF THE PCSM PLAN, AND A REPRESENTATIVE FROM THE LOCAL CONSERVATION DISTRICT TO AN ON-SITE PRECONSTRUCTION MEETING.
- 3. 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.
- 4. ALL EARTH DISTURBANCE ACTIVITIES SHALL PROCEED IN ACCORDANCE WITH THE SEQUENCE PROVIDED ON THE PLAN DRAWINGS, DEWATION FROM THAT SEQUENCE MUST BE APPROVED IN WRITING FROM THE LOCAL CONSERVATION DISTRICT OR BY THE DEPARTMENT PRIOR TO INDIP INSERVATION.
- 5. AREAS TO BE FILLED ARE TO BE CLEARED, GRUBBED, AND STRIPPED OF TOPSOIL TO REMOVE TREES, VEGETATION, ROOTS AND OTHER OBJECTIONABLE MATERIAL.
- 6. CLEARING, GRUBBING, AND TOPSOIL STEIPPING SHALL BE LIMITED TO THOSE AREAS DESCRIBED IN EACH STAGE OF THE CONSTRUCTION SEQUENCE, GENERAL SITE CLEARING, GRUBBING AND TOPSOIL STRIPPING MAY NOT COMMETCE IN ANY STAGE OR PHASE OF THE PROJECT UNTIL THE EAS BMPS SPECIFIED BY THE BMP SEQUENCE FOR THAT STAGE OR PHASE HAVE BEEN INSTALLED AND ARE PUNCTIONING AS DESCRIBED IN THIS EAS 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.
- 8. TOPSOIL REQUIRED FOR THE ESTABLISHMENT OF VEGETATION SHALL BE STOCKPILED AT THE LOCATIONS; SHOWN ON THE PLAN MAP(S), IN THE AMOUNT NECESSARY TO COMPLETE THE FINISH FRADRING OF ALL EXPOSED AREAS THAT ARE TO BE STABLIZED BY VEGETATION, EACH STOCKPILE SHALL BE PROTECTED IN THE MANNER SHOWN ON THE PLAN DRAWNIGS, 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 SEMBENT POLLUTION, THE OPERATOR SHALL IMPLEMENT APPROPRIATE BEST MANAGEMENT PRACTICES TO MINIMEE THE POTENTIA FOR EROSION AND SEDIMENT POLLUTION AND NOTIFY THE LOCAL CONSERVATION DISTRICT AND/OR THE RESIONAL OPPICE OF THE
- 10. 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 RESULATIONS AT 28 PA. CODE 280.1 ET SEO. 27.11, AND 287.1 ET. SEO. NO BUILDING MATERIALS OR WASTES OR INUSED BUILDING MATERIALS HALL BE BUINNED, BUINED, DUMPED, OR DISCHARGED AT THIS SITE.
- 11. 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.
- 12. THE CONTRACTOR IS RESPONSIBLE FOR ENSURING THAT ANY MATERIAL BROUGHT ON SITE IS CLEAN FILL, FORM FP-001 MUST BE RETAINED BY THE PROPERTY OWNER FOR ANY FILL MATERIAL AFFECTED BY A SPILL OR RELEASE OF A REGULATED SUBSTANCE BUT QUALIFYING AS CLEAN FILL DUE TO ANALYTICAL TESTING.
- 13. ALL PUMPING OF WATER FROM ANY WORK AREA SHALL BE DONE ACCORDING TO THE PROCEDURE DESCRIBED IN THIS PLAN, OVER UNDSTURBED VEGETATED AREAS, ALL PUMPING OF SEDIMENT LOAD WATER SHALL BE THROUGH A SEDIMENT CONTROL BMP, SUCH AS A PUMPED WATER RITER BAG DISCHARGING OVER NON-DISTURBED AREAS.
- 14. VEHICLES AND EQUIPMENT MAY NEITHER ENTER DIRECTLY NOR EXIT DIRECTLY FROM LOTS ONTO ROADWAYS, VEHICLES AND EQUIPMENT MAY ONLY ENTER AND EXIT THE CONSTRUCTION SITE VIA A STABILIZED ROCK CONSTRUCTION ENTRANCE.
- 15. UNITL THE SITE IS STABILIZED, ALL EROSION AND SEDIMENT BMPS SHALL BE MAINTAINED PROPERLY, MAINTENANCE SHALL INCLUDE INSPECTIONS OP ALL EROSION AND SEDIMENT BMPS AFTER EACH RUNNOF PEVENT AND ON A WEEKLY BASIS. THE OPERATOR WILL MAINTAIN AND MAKE AVAILABLE TO LEHICH COUNTY CONSERVATION DISTRICT COMPLETE, WRITTEN INSPECTION LOGS OF ALL THOSE INSPECTIONS. ALL PREVENTATIVE AND REMOBLAL MAINTENANCE WORK, NOLUDING CLEAN OUT, REPAIR, RECMENT, REGRADING, RESECTION, REMULCHING AND RENETTING MUST BE PERFORMED IMMEDIATELY, IF THE &S BMPS FAIL TO PERFORM AS EXPECTED, REPALCEMENT BMPS, OR MODIFICATIONS OF THOSE INSTALLED WILL BE REQUIRED.
- 16. A LOG SHOWING DATES THAT EAS BMPS WERE INSPECTED AS WELL AS ANY DEFICIENCIES FOUND AND THE DATE THEY WERE CORRECTED SHALL BE MAINTAINED ON THE SITE AND BE MADE AVAILABLE TO REGULATORY AGENCY OFFICIALS AT THE TIME OF INSPECTION.
- 17. SEDMENT TRACKED ONTO ANY PUBLIC ROADWAY OR SIDEWALK SHALL BE RETURNED TO THE CONSTRUCTION SITE BY THE END OF EACH WORK DAY AND DISPOSED IN THE MANNER DESCRIBED IN THIS PLAN. IN NO CASE SHALL THE SEDIMENT BE WASHED, SHOVELED, OR SWEPT INTO ANY ROADSDED DITCH, STORM SEVER, OR SURFACE WATER.
- ALL SEDMENT REMOVED FROM BMPS SHALL BE DISPOSED OF IN THE MANNER DESCRIBED ON THE PLAN DRAWINGS, SEDMENT REMOVED FROM BMPS SHALL BE DISPOSED OF IN LANDSCAPED AREAS OUTSIDE OF STEEP SLOPES, WETLANDS, FLOODPLAINS OR DRAWINGS EWALES AND MIMEDIATELY STABILEED, OR PLACED IN TOPSOIL STOCKPLES.
- 19. AREAS WHICH ARE TO BE TOPSOILED SHALL BE SCARIFIED TO A MINIMUM DEPTH OF 3 TO 5 INCHES 6 TO 12 INCHES ON COMPACTED SOLS. PRIOR TO INACEMENT OF TOPSOIL, AREA 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.
- 20. 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.
- 21. ALL EARTHEN FILLS SHALL BE PLACED IN COMPACTED LAYERS NOT TO EXCEED 9 INCHES IN THICKNESS,
- 22. FILL MATERIALS SHALL BE FREE OF FROZEN PARTICLES, BRUSH, ROOTS, SOD, OR OTHER FOREIGN OR OBJECTIONABLE MATERIALS
- THAT WOULD INTERFERE WITH OR PREVENT CONSTRUCTION OF SATISFACTORY FILLS.

  23. FROZEN MATERIALS OR SOFT, MUCKY, OR HIGHLY COMPRESSIBLE MATERIALS SHALL NOT BE INCORPORATED INTO FILLS.
- 24. FILL SHALL NOT BE PLACED ON SATURATED OR FROZEN SURFACES.
- 25. SEEPS OR SPRINGS ENCOUNTERED DURING CONSTRUCTION SHALL BE HANDLED IN ACCORDANCE WITH THE STANDARD AND SPECIFICATION FOR SUBSURFACE DRAIN OR OTHER APPROVED METHOD.

- 26. 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 MITHIN SOFETO FA SURFACE WATER, OR AS OTHERWISE SHOWN ON THE PLAN DRAWINGS, SHALL BE BLANKETED ACCORDING TO THE STANDARDS OF THIS PLAN.
- 27. IMMEDIATELY AFTER EARTH DISTURBANCE ACTIVITES CEASE IN ANY AREA OR SUBAREA OF THE PROJECT, THE OPERATOR SHALL STABILIZE ALL DISTURBED AREAS, DURING NON-GERMINATING MONTHS, MUICH OR OTHER PROTECTIVE BLANKETING SHALL BE APPLIED AS DESCRIBED IN THE PLAN, AREAS NOT AT FINISHED GRADE, WHICH WILL BE REACTIVATED WITHIN 1 YEAR MAY BE STABILIZED IN ACCORDANCE WITH THE TEMPORARY STABILIZATION SPECIFICATIONS, THOSE AREAS WHICH WILL NOT BE REACTIVATED WITHIN 1 YEAR SHALL BE STABILIZED IN ACCORDANCE WITH THE PERMANENT STABILIZATION SPECIFICATIONS SP
- 28. PERMANENT STABILIZATION IS DEFINED AS A MINIMUM UNIFORM, PERENNAL 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 MOTHER MOVEMENTS.
- 29. EROSION AND SEDIMENT BMPS MUST BE CONSTRUCTED. STABILIZED, AND FUNCTIONAL BEFORE SITE DISTURBANCE BEGINS WITHIN THE TRIBUTIARY AREAS OF THOSE BMPS. EAS BMPS SHALL REMAN FUNCTIONAL AS SUCH UNITL ALL AREAS TRIBUTARY TO THEM ARE PERMANENTLY STABILIZED OR UNTIL THEY ARE REPLACED BY ANOTHER BMP APPROVED BY THE LOCAL CONSERVATION DISTRICT OR THE PEPPARTMENT.
- 30. UPON COMPLETION OF ALL EARTH DISTURBANCE ACTIMITIES AND PERMANENT STABILIZATION OF ALL DISTURBED AREAS, THE OWNER ANDIOR OPERATOR SHALL CONTACT THE LOCAL CONSERVATION DISTRICT FOR AN INSPECTION PRIOR TO REMOVAL/CONVERSION OF THE EAS BMPS.
- 31. AFTER FINAL SITE STABILIZATION HAS BEEN ACHEVED, TEMPORARY EROSION AND SEDMENT BMPS MUST BE REMOVED OR CONVERTED TO PERMANENT POST CONSTRUCTION STORMWATER MANAGEMENT BMPS, AREAS DISTURBED DURING REMOVID OR CONVERSION OF THE BMPS SHALL BE STABILIZED IMMEDIATELY, IN ORDER TO ENSURE RAPID REVEGETATION OF DISTURBED AREAS, SUCH REMOVALICONVERSIONS ARE TO BE DOING ONLY DURING THE GERMANTING SEASON.
- 32. 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.
- 33. FAILURE TO CORRECTLY INSTALL 68S BMPS, FAILURE TO PREVENT SEDIMENT-LADEN RUNOFF FROM LEAVING THE CONSTRUCTION SITE OF RAILURE OF DESIGNED MAY RESULT IN ADMINISTRATIVE, CIVIL, AND/OR CRIMINAL PENALTIES BEING INSTITUTE BY THE DEPARTMENT AS DEFINED IN SECTION 082 OF THE 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 MISDEMARANG ROMINALS PENALTIES, AND UP TO \$25,000 IN MISDEMARANG ROMINALS PENALTIES FOR EACH MOLATION.
- 34. IN THE EVENT OF SINKHOLE DISCOVERY A PROFESSIONAL GEOLOGIST OR ENGINEER WILL BE CONTACTED CONCERNING MITIGATION, ADDITIONALLY, THE LEHIGH COUNTY CONSERVATION DISTRICT WILL BE MADE AWARE OF THE SINKHOLE DISCOVERY IMMEDIATELY.
- 35. THE OPERATOR SHALL ASSURE THAT THE APPROVED EROSION AND SEDIMENT CONTROL PLAN IS PROPERLY AND COMPLETELY IMPLEMENTED.
- 36. THE CONTRACTOR IS ADVISED TO BECOME THOROUGHLY FAMILIAR WITH THE PROVISIONS OF THE APPENDIX 64, EROSION CONTROL RULES AND REGULATIONS, ITLE 25, PART 1, DEPARTMENT OF ENVIRONMENTAL PROTECTION, SUBPART C, PROTECTION OF NATURAL RESOURCES, ARTICLE III, WATER RESOURCES, CHAPTER 102, EROSION CONTROL.
- 37. THE E&S CONTROL PLAN MAPPING MUST DISPLAY A PA ONE CALL SYSTEM INCORPORATED SYMBOL INCLUDING THE SITE IDENTIFICATION NUMBER, (THIS IS A NUMBERED SYMBOL NOT A NOTE.)
- 38. AT STREAM CROSSINGS, 50 BUFFER AREAS SHOULD BE MANTAINED, ON BUFFERS, CLEARING, SOD DISTURBANCES, EXCAVATION, AND EQUIPMENT TRAFFIC SHOULD BE MINIMIZED, ACTIVITIES SUCH AS STACKING LOGS, BURNING CLEARED BRUSH, DISCHARGING RAINWATER FROM TRENCHES, WELDING PIPE SECTIONS, REFUELING AND MAINTAINING EQUIPMENT SHOULD BE ACCOMPLISHED
- 39. ALL WETLANDS MUST BE DELINEATED AND PROTECTED WITH ORANGE SAFETY FENCE PRIOR TO ANY EARTHMOVING ACTIVITY.
- 40. STRAW MULCH SHALL BE APPLIED IN LONG STRANDS, NOT CHOPPED OR FINELY BROKEN.
- 41. AT LEAST 7 DAYS BEFORE STARTING ANY EARTH DISTURBANCE ACTIVITIES, THE OPERATOR SHALL PROVIDE NOTICE IN WRITING TO THE LEHIGH COUNTY CONSERVATION DISTRICT THAT EARTH DISTURBANCE ACTIVITIES WILL BE COMMENCING.

PENNDOT DISTRICT	COUNTY	ROUTE	SECTION	SHEET No.			
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HARRISBURG, PENNSYLVANIA

LEHIGH COUNTY AUTHORITY - ALLENTOWN DIVISION
ALLENTOWN, PENNSYLVANIA

EROSION AND SEDIMENTATION CONTROL
NOTES

30" AND 36" EAST SIDE
TRANSMISSION MAIN REPAIRS

DATE

DESCRIPTION OF SECRET APPROVED SOALE
NOVEMBER 2024 J.R.W. J.W.Z. E.J.S. MT.B. AS NOTE

2014

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