DOVER TOWNSHIP BOARD OF SUPERVISORS YORK COUNTY, PA POPLARS ROAD CULVERT REPLACEMENT

PUBLIC UTILITY FILING - ACT 50 OF 2017

COMPANY: COLUMBIA GAS OF PA INC ADDRESS: 1600 DUBLIN RD COLUMBUS, OH. 43215 CONTACT: LISA COLLINS EMAIL: Idugan@nisource.com PHONE: 614-325-5961

COMPANY: COMCAST

ADDRESS: C/O USIC LOCATING

SERVICES INC

13085 HAMILTON CROSSING BLVD

SUITE 200

CARMEL, IN. 46032 CONTACT: USIC PERSONNEL PHONE: 800-762-0592 EXT. 3

COMPANY: FIRSTENERGY CORPORATION ADDRESS: 21 S MAIN ST AKRON, OH. 44308

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COMPANY: DOVER TOWNSHIP
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DOVER, PA. 17315
CONTACT: NATHAN STONE
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COMPANY: VERIZON NORTH ADDRESS: 37 W 8TH ST WYOMING, PA. 18644 CONTACT: RONALD SILINSKIE

EMAIL:

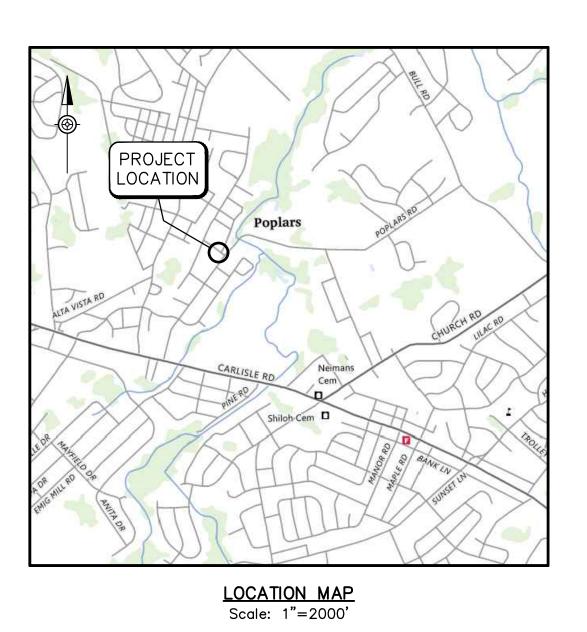
RONALD.SILINSKIE@VERIZON.COM
PHONE: 570-826-4263

SHEET INDEX

SHEET NO. DESCRIPTION

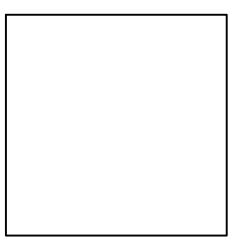
COVER SHEET
 PLAN, PROFILE, AND CONSTRUCTION DETAILS

3. EASEMENTS4. E&S NOTES AND DETAILS



ENGINEER'S PROJECT NO. 1619.5.82.00

JULY 2024





C.S. DAVIDSON, INC.
ENGINEERING A BETTER COMMUNITY

38 NORTH DUKE STREET, YORK, PA • PHONE (717) 846-4805
50 WEST MIDDLE STREET, GETTYSBURG, PA • PHONE (717) 337-3021
315 W. JAMES STREET, SUITE 102, LANCASTER, PA • PHONE (717) 481-2991
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PENNSYLVANIA ONE CALL SYSTEM, INC.

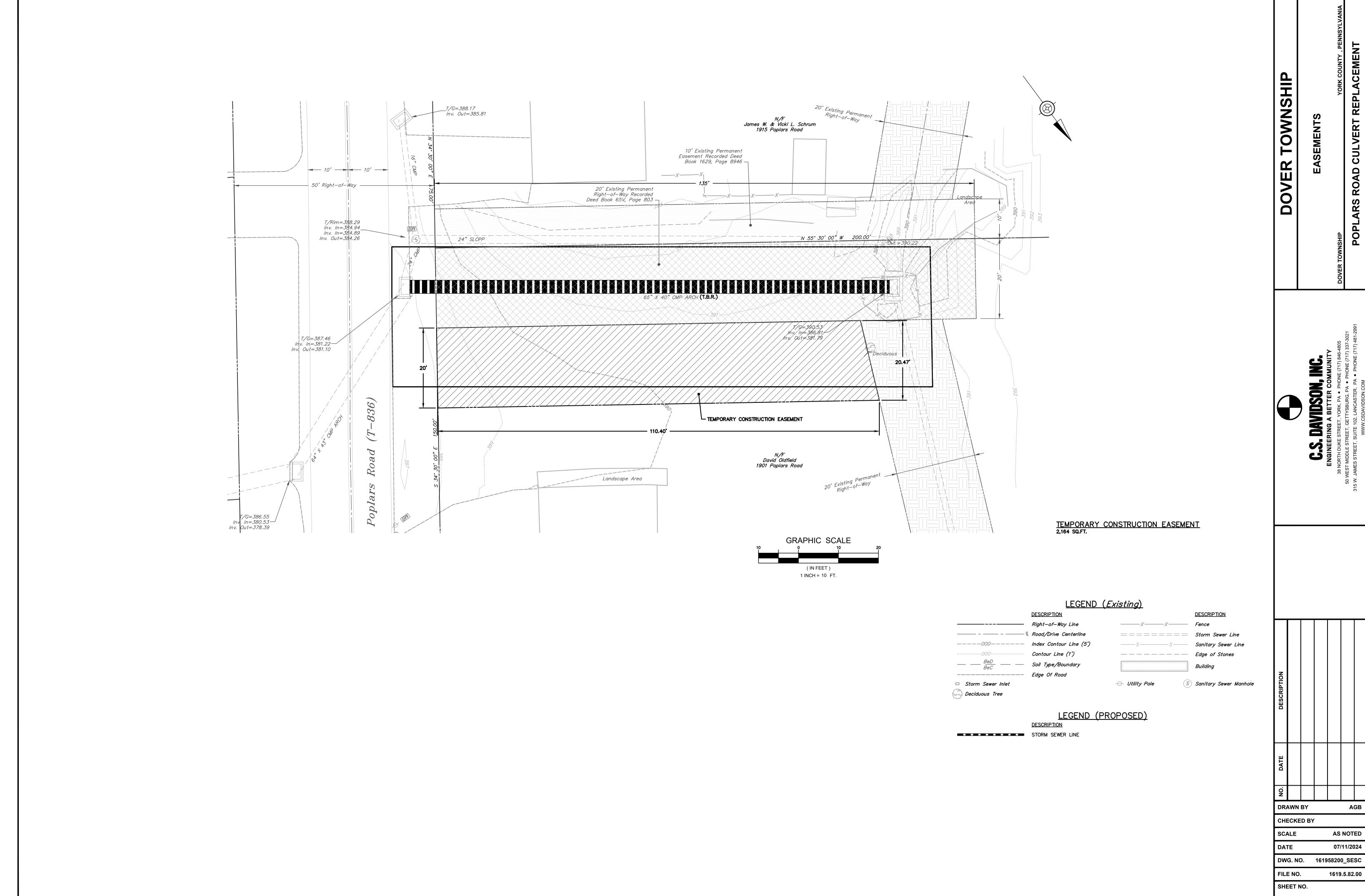
DESIGN STAGE NOTIFICATION
(05/22/24)

SERIAL NO. 20241230813-000

NOTE:
INFORMATION CONCERNING UNDERGROUND
UTILITIES IS NOT GUARANTEED TO BE
COMPLETE OR ACCURATE. CONTRACTOR
IS RESPONSIBLE TO CONTACT ALL UTILITY
OWNERS, AND TO DETERMINE THE LOCATION
OF ALL UNDERGROUND UTILITIES, PRIOR TO
EXCAVATION BY USE OF POWER—OPERATED
EQUIPMENT.

NO. DATE REVISION BY

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3 OF 4

- All earth disturbances, including but not limited to cuts and fills shall be done in accordance with the construction/erosion and sedimentation
- A copy of the construction/erosion and sedimentation control plans must be available at the project site at all times. The engineer shall be
- notified of any changes to the construction/erosion and sedimentation control plans prior to the implementation of those changes. All earth disturbance activities shall proceed in accordance with the following sequence. Each stage shall be completed and immediately stabilized before any following stage is initiated. Clearing and topsoil stripping shall be limited to those areas described in each stage. Any deviation from the following sequence must be approved in writing from the engineer.
- . At least 7 days prior to starting any earth disturbance activities, including clearing and grubbing, the engineer shall invite the contractor, the landowners, appropriate municipal officials, and a representative from the local conservation district to an on-site pre-construction meeting.
- 2. 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.
- 3. The contractor shall field mark the limits of disturbance for all work and all waters of the commonwealth boundaries (ex. Stream buffers, wetlands boundaries, spring seeps, and floodway) prior to the start of construction.
- 4. The contractor shall install rock construction entrances and perimeter erosion and sedimentation controls as shown on the drawings. 5. Provide a cofferdam, dewatering pump, and pumped water filter bag and dewater the pipe and stream with pumped water as required throughout construction.
- 6. The contractor shall strip the work area of topsoil and stockpile as shown.

Construction shall occur during dry times with little to no flow.

- 7. The contractor shall excavate and remove the existing 65" X 40" CMP pipe and install the proposed 48" slcpp pipe and backfill per the construction/erosion and sediment control plans.
- 8. The contractor shall keep all perimeter erosion and sedimentation control measures in place until 70% stabilization is confirmed by the engineer. Until this is confirmed the contractor shall be responsible to inspect and maintain all disturbed areas and soil erosion and sedimentation
- controls, to include checking the integrity of the temporary matting, and repairing any erosion. 9. Upon completion of all earth disturbance activities and permanent stabilization of all disturbed areas, the contractor shall contact the engineer

The order of the above schedule is subject to change. Any changes should be made under direct supervision of the engineer. It is the responsibility of the contractor to contact the engineer 72 hours prior to construction and 72 hours prior to leaving the site.

C.S. Davidson, Inc. 38 North Duke Street York, PA 17401

(717) 846-4805

prior to the removal of the E&S BMP's.

SOIL EROSION & SEDIMENTATION CONTROL NOTES

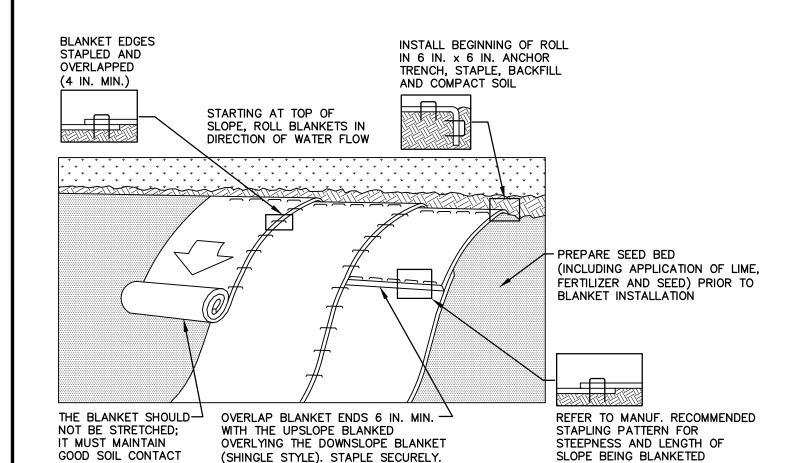
- A copy of the approved erosion and sediment control plan must be available at the project site at all times. The local conservation district shall be notified of any changes to the approved plan prior to implementation of those changes. The District may require a written submittal of those changes for review and approval at its discretion.
- 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 pumping of sediment laden water shall be through a sediment control BMP, such as a pumped water filter bag or equivalent sediment
- removal facility, over undisturbed vegetated areas. 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 Stream 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.
- 5. All building materials and wastes must be removed from the site and recycled or disposed of in accordance with the Department's Solid Waste Management Regulations at 25 PA Code 260.1 et seq., 271.1, and 287.1 et seq. No building materials or wastes or unused building material shall be burned, buried, dumped, or discharged at the site.
- The contractor will be responsible for the removal of any excess material and make sure the sites receiving the excess has an approved and fully implemented erosion and sediment control plan that meets the conditions of Chapter 102 and/or other State or Federal regulations. Clean Fill is defined as: Uncontaminated, non-water soluble, non-decomposable, inert, solid material. The term includes soil, rock, stone,
- dredged material, used asphalt, and brick, block or concrete from construction and demolition activities that is separate from other waste and is recognizable as such. The term does not include materials placed in or on the waters of the Commonwealth unless otherwise authorized. (The term "used asphalt" does not include milled asphalt or asphalt that has been processed for re—use.)
- Any placement of clean fill that has been affected by a spill or release of a regulated substance must use form FP-001 to certify the origin of the fill material and the results of the analytical testing to qualify the material as clean fill. Form FP-001 must be retained by the owner of the property receiving the fill.
-). Environmental due diligence must be performed to determine if the fill materials associated with the project qualify as clean fill. Environmental due diligence is defined as: investigative techniques, including, but not limited to, visual property inspections, electronic data base searches, review of property ownership, review of property use history, Sanborn maps, environmental questionnaires, transaction screens, analytical testing, environmental assessments or audits. Analytical testing is not a required part of due diligence unless visual inspection and/or review of the past land use of the property indicates that the fill may have been subjected to a spill or release of 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 if it qualifies as clean fill. Testing should be performed in accordance with Appendix A of the Department's policy "Management of Clean Fill."
- 10. 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. Vehicles and equipment shall enter and exit at the proposed rock construction entrance as shown.

SOIL LIMITATION AND RESOLUTIONS

- Areas to be filled are to be cleared, grubbed, and stripped of topsoil to remove trees, vegetation, roots, and other objectionable material. 2. All fills shall be compacted as required to reduce erosion, slippage, settlement, subsidence or other related problems. Fill intended to support
- All earthen fills shall be placed in compacted layers not to exceed 9 inches in thickness. 4. Fill materials shall be free of frozen particles, brush, roots, sod, or other foreign or objectionable materials that would interfere with or prevent
- construction of satisfactory fills.
- Frozen materials or soft, mucky, or highly compressible materials shall not be incorporated into fills. 6. Fill shall not be placed on saturated or frozen surfaces.

buildings, structures and conduits, etc. shall be compacted in accordance with local requirements or codes.

Seeps or springs encountered during construction shall be handled in accordance with the standard and specification for subsurface drain or other approved method.



SEED AND SOIL AMENDMENTS SHALL BE APPLIED ACCORDING TO THE RATES IN THE PLAN DRAWINGS PRIOR TO INSTALLING THE BLANKET.

PROVIDE ANCHOR TRENCH AT TOE OF SLOPE IN SIMILAR FASHION AS AT TOP OF SLOPE.

SLOPE SURFACE SHALL BE FREE OF ROCKS, CLODS, STICKS, AND GRASS.

BLANKET SHALL HAVE GOOD CONTINUOUS CONTACT WITH UNDERLYING SOIL THROUGHOUT ENTIRE LENGTH. LAY BLANKET LOOSELY AND STAKE OR STAPLE TO MAINTAIN DIRECT CONTACT WITH SOIL. DO NOT STRETCH BI ANKET

THE BLANKET SHALL BE STAPLED IN ACCORDANCE WITH THE MANUFACTURER'S RECOMMENDATIONS.

BLANKETED AREAS SHALL BE INSPECTED WEEKLY AND AFTER EACH RUNOFF EVENT UNTIL PERENNIAL VEGETATION IS ESTABLISHED TO A MINIMUM UNIFORM 70% COVERAGE THROUGHOUT THE BLANKETED AREA. DAMAGED OR DISPLACED BLANKETS SHALL BE RESTORED OR REPLACED WITHIN 4 CALENDAR DAYS. <u>STANDARD CONSTRUCTION DETAIL #11—1</u> EROSION CONTROL BLANKET INSTALLATION

STABILIZATION SPECIFICATIONS

shall have a minimum of 2 inches of topsoil.

- 1. Upon temporary cessation of an earth disturbance activity or any stage or phase of an activity where a cessation of earth disturbance
- activities will exceed 4 days, the site shall be immediately seeded, mulched, or otherwise protected from accelerated erosion and sedimentation pending future earth disturbance activities
- 2. Permanent stabilization is defined as a minimum uniform, perennial 70% vegetative cover or other permanent non-vegetative cover with a density sufficient to resist accelerated surface erosion and subsurface characteristics sufficient to resist slumping, sliding, or other movements. Topsoil required for the establishment of vegetation shall be stockpiled at the locations shown on the plan drawings 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 2 horizontal:1 vertical or flatter. 4. Areas which are to be topsoiled shall be scarified to a minimum depth of 3 to 5 inches — 6 to 12 inches on compacted soils — prior to

placement of topsoil. Areas to be vegetated shall have a minimum 4 inches of topsoil in place prior to seeding and mulching. Fill outslopes

- 5. Topsoil should not be placed while the topsoil or subsoil is in a frozen or muddy condition, when the subsoil is excessively wet, or in a condition that may otherwise be detrimental to proper grading and seedbed preparation. Compacted soils should be scarified 6 to 12 inches
- along contour whenever possible prior to seeding. 6. 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. Disturbed areas which are not at finished grade and which will be re-disturbed within 1 year must be stabilized in accordance with the temporary yeaetative stabilization specifications. Disturbed areas which are at final grade or which will not be re-disturbed within 1 year must be stabilized in accordance with
- the permanent vegetative stabilization specifications. 7. An erosion control blanket will be installed on all disturbed slopes 3:1 or steeper, all areas of concentrated flows, and disturbed areas within 50 feet of a surface water.
- 8. 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.
- 9. Straw and hay mulch should be anchored immediately after application to prevent being windblown. A tractor-drawn implement may be used to "crimp" the straw or hay into the soil. This method is limited to slopes no steeper than 3:1. The machinery should be operated on the contour. (Note: Crimping of hay or straw by running over it with tracked machinery is not recommended.) 10. Asphalt, either emulsified or cut-back, containing no solvents or other diluting agents toxic to plant or animal life, uniformly applied at the
- rate of 31 gallons per 1000 sq. yd. may be used to tack mulch. 11. Synthetic Binders (chemical binders) may be used as recommended by the manufacturer to anchor mulch provided sufficient documentation is provided to show they are non-toxic to native plant and animal species.
- 12. Lightweight plastic, fiber, or paper nets may be stapled over the mulch according to manufacturer's recommendations. 13. Tracking slopes is required by running tracked machinery up and down the slope, leaving tread marks parallel to the contour. (Note: If a bulldozer is used, the blade shall be up.) Care should be exercised on soils having a high clay content to avoid over-compaction.

MAINTENANCE PROGRAM

surface water.

- 1. Until the site is stabilized, all erosion and sediment BMPs shall be maintained properly. Maintenance shall include inspections of all erosion and sediment BMPs after each runoff event and on a weekly basis. All preventative and remedial maintenance work, including clean out, repair, replacement, regrading, reseeding, remulching and renetting must be performed immediately. If the E&S BMPs fail to perform as expected, replacement BMPs, or modifications of those installed will be required.
- . All sediment removed from BMPs will be returned to upland areas on site and incorporated into the site grading. 3. A log showing dates that E&S BMPs were inspected as well as any deficiencies found and the date they were corrected shall be maintained on
- the site and be made available to regulatory agency officials at the time of inspection 4. The permittee and co-permittee must ensure that visual site inspections are conducted weekly, and after each measurable precipitation event by qualified personnel, trained and experienced in erosion and sediment control, to ascertain that the erosion and sediment control (E&S) BMPs are operational and effective in preventing pollution to the Waters of the Commonwealth. A written report of each inspection shall be kept, and include:
- 1.) A summary of the site conditions, E&S BMPs, and compliance; and 2.) The date, time, and the name of the person conducting the inspection. 5. Sediment tracked onto any public roadway or sidewalk shall be returned to the construction site by the end of each work day and disposed in the manner described in this plan. In no case shall the sediment be washed, shoveled, or swept into any roadside ditch, storm sewer, or

SOIL EROSION & SEDIMENTATION CONTROL SEEDING RESTORATION TABLE

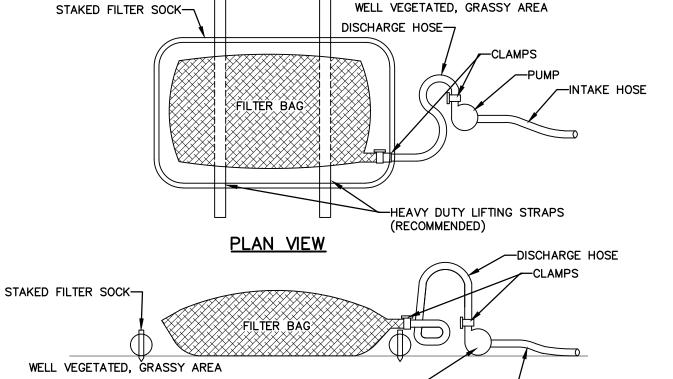
RESTORATION CONDITION	<u>TOPSOIL</u>	<u>LIME</u> *	BASIC <u>FERTILIZER</u>	STARTER FERTILIZER	SEED MIX & SOWING RATE (<u>% BY</u> <u>WEIGHT)</u>
Temporary Cover (PennDOT E) & Wet Soils	N/A	1 Ton/Acre	5-5-5 1000#/Acre	N/A	100% Annual Ryegrass Sow 10# Per 1,000 Sq.Yds. March 15 Through October 15
Lawns (PennDOT B)	Yes	800# Per 1,000 Sq. Yd.	10-20-20 @ 140# Per 1,000 Sq.Yd.	38-0-0 @ 50# Per 1,000 Sq.Yd. <u>OR</u> 31-0-0 @ 61# Per 1,000 Sq.Yd.	50% Kentucky Bluegrass 30% Pennlawn Red Fescue 20% Perennial Ryegrass Sow 42# Per 1,000 Sq.Yds. March 15 Through June 1 August 1 Through October 15

Mulch immediately after temporary and permanent seeding by placing hay and straw mulch in a continuous blanket at a minimum rate of 1,200 pounds per 1,000 square yards.

INTAKE HOSE

•Unless lesser rate indicated by soils tests.

• A minimum 6" of topsoil shall be placed on all disturbed areas to be permanently revegetated.



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

ELEVATION VIEW

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

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

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

NO DOWNSLOPE SEDIMENT BARRIER IS REQUIRED FOR MOST INSTALLATIONS. COMPOST BERM OR COMPOST FILTER SOCK SHALL BE INSTALLED BELOW BAGS LOCATED IN HQ OR EV WATERSHEDS, WITHIN 50 FEET OF ANY RECEIVING SURFACE WATER OR WHERE GRASSY AREA IS NOT AVAILABLE.

MANUFACTURER AND SECURELY CLAMPED. A PIECE OF PVC PIPE IS RECOMMENDED FOR THIS PURPOSE. THE PUMPING RATE SHALL BE NO GREATER THAN 750 GPM OR 1/2 THE MAXIMUM SPECIFIED BY THE MANUFACTURER, WHICHEVER IS LESS. PUMP INTAKES SHALL BE FLOATING AND SCREENED.

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

THE PUMP DISCHARGE HOSE SHALL BE INSERTED INTO THE BAGS IN THE MANNER SPECIFIED BY THE

AND NOT RESUME UNTIL THE PROBLEM IS CORRECTED. COMPOST FILTER SOCK SHALL BE INSTALLED AROUND THE PUMPED WATER FILTER BAG DURING USE TO MEET ABACT STANDARDS REQUIRED FOR IN NON-SPECIAL PROTECTION WATERSHEDS DISCHARGING TO CHESAPEAKE

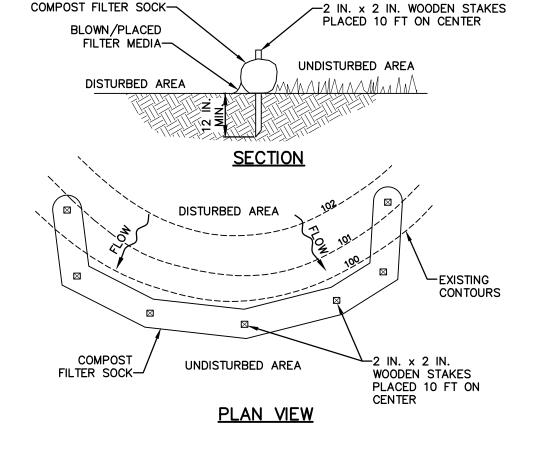
> STANDARD CONSTRUCTION DETAIL #3-16 PUMPED WATER FILTER BAG

SOIL TYPE LEGEND

UgB URBAN LAND-PENN COMPLEX, 0 TO 8 PERCENT SLOPES

SOIL LIMITATIONS AND RESOLUTIONS

OOIL LII	MITATIONS AND INC	<u> </u>
SOIL	LIMITATION	RESOLUTION
UgB	DEPTH TO SATURATED ZONE/SEASONAL HIGH WATER TABLE	TESTING SHALL BE PREFORMED TO DETERMINE SATURATED ZONE/SEASONAL HIGH WATER TABLE. ALL UNDERGROUND STRUCTURES SHALL BE DESIGNED WITH THE TEST RESULTS IMPLEMENTED IN THE DESIGN. ALL INFILTRATION FACILITIES SHALL HAVE A MINIMUM OF 2 FT SOIL BETWEEN THE INFILTRATIONS FACILITIES AND THE SATURATED ZONE/SEASON HIGH WATER TABLE. IF EXCAVATIONS BECOME INUNDATED WITH WATER A PUMP AND PUMP FILTER BAG SHALL BE USED TO REMOVE THE WATER FROM THE EXCAVATION.
UgB	FROST ACTION	FROZEN MATERIAL AND SOIL SHALL NOT BE USED IN FILL AREAS, FILL SHALL NOT BE PLACED ON FROZEN SOIL



2 BAG MIN. HEIGHT ABOVE NORMAL BASE FLOW

WORK AREA-

STACKED SANDBAGS OPTION

JERSEY BARRIER OPTION

<u>STANDARD CONSTRUCTION DETAIL #3-15</u>

SANDBAG DIVERSION DAM OR COFFERDAM

IMPERVIOUS MEMBRANE-

SANDBAG TO HOLD IMPERVIOUS

WITH SANDBAGS

JERSEY BARRIER-

SANDBAG (TYP.)

OPTIONAL SANDBAG PLATFORM-

IMPERVIOUS LINER EXTENDED TO-

STREAM BOTTOM AND SECURED

NORMAL STREAM FLOW

LINER IN PLACE-

SOCK FABRIC SHALL MEET STANDARDS OF TABLE 4.1 OF THE PA DEP EROSION CONTROL MANUAL. COMPOST SHALL MEET THE STANDARDS OF TABLE 4.2 OF THE PA DEP EROSION CONTROL MANUAL.

COMPOST FILTER SOCK SHALL BE PLACED AT EXISTING LEVEL GRADE. BOTH ENDS OF THE BARRIER SHALL BE EXTENDED AT LEAST 8 FEET UP SLOPE AT 45 DEGREES TO THE MAIN BARRIER ALIGNMENT. MAXIMUM SLOPE LENGTH ABOVE ANY BARRIER SHALL NOT EXCEED THAT SPECIFIED FOR THE SIZE OF THE SOCK AND THE SLOPE OF ITS TRIBUTARY AREA.

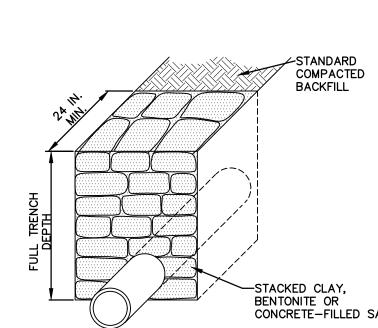
TRAFFIC SHALL NOT BE PERMITTED TO CROSS COMPOST FILTER SOCKS.

ACCUMULATED SEDIMENT SHALL BE REMOVED WHEN IT REACHES 1/2 THE ABOVE GROUND HEIGHT OF THE BARRIER AND DISPOSED IN THE MANNER DESCRIBÉD ELSEWHERE IN THE PLAN. COMPOST FILTER SOCKS SHALL BE INSPECTED WEEKLY AND AFTER EACH RUNOFF EVENT. DAMAGED SOCKS SHALL BE REPAIRED ACCORDING TO MANUFACTURERS SPECIFICATIONS OR REPLACED WITHIN 24 HOURS OF INSPECTION.

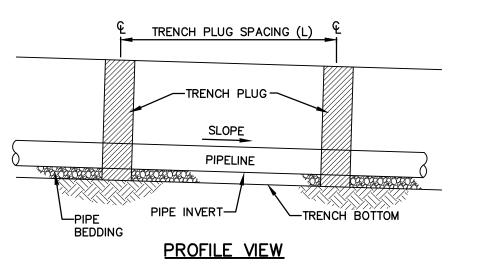
BIODEGRADABLE COMPOST FILTER SOCKS SHALL BE REPLACED AFTER 6 MONTHS; PHOTODEGRADABLE SOCKS AFTER 1 YEAR. POLYPROPYLENE SOCKS SHALL BE REPLACED ACCORDING TO MANUFACTURERS RECOMMENDATIONS.

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

> STANDARD CONSTRUCTION DETAIL #4-1 COMPOST FILTER SOCK



SECTION VIEW



PA DEP EROSION CONTROL MANUAL TABLE 13.1 MAXIMUM SPACING AND MATERIALS FOR TRENCH PLUGS

「RENCH SLOPE (%)	SPACING L (FT)	PLUG MATERIAL
< 5	1000	* CLAY, BENTONITE, OR CONCRETE FILLED SACKS
5 - 15	500	* CLAY, BENTONITE, OR CONCRETE FILLED SACKS
15 - 25	300	* CLAY, BENTONITE, OR CONCRETE FILLED SACKS
25 - 35	200	* CLAY, BENTONITE, OR CONCRETE FILLED SACKS
35 - 100	100	* CLAY, BENTONITE, OR CONCRETE FILLED SACKS
> 100	50	CEMENT BAGS (WETTED) OR MORTARED STONE

NOTES:

IMPERVIOUS TRENCH PLUGS ARE REQUIRED FOR ALL STREAM, RIVER, WETLAND, OR OTHER WATER BODY

TRENCH PLUG INSTALLATION

	Compos	TAB t Sock Fabric	LE 4.1	ocifications	
terial Type	3 mil HDPE	5 mil HDPE	5 mil HDPE	Multi-Filament Polypropylene (MFPP)	Heavy Duty Multi-Filament Polypropylene (HDMFPP)
Material racteristics	Photo- degradable	Photo- degradable	Bio- degradable	Photo- degradable	Photo- degradable
Sock iameters	12" 18"	12" 18" 24" 32"	12" 18" 24" 32"	12" 18" 24" 32"	12" 18" 24" 32"
h Opening	3/8"	3/8"	3/8"	3/8"	1/8"
Tensile Strength		26 psi	26 psi	44 psi	202 psi
Itraviolet tability % Original Strength STM G-155)	23% at 1000 hr.	23% at 1000 hr.		100% at 1000 hr.	100% at 1000 hr.
linimum unctional ongevity	6 months	9 months	6 months	1 year	2 years
		Two-ply	y systems		
Inner Containment Netting Outer Filtration Mesh			HDPE biaxial net Continuously wound Fusion-welded junctures 3/4" X 3/4" Max. aperture size		
			Com _l (Wove mechan	Composite Polypropylene Fabric (Woven layer and non-woven fleece mechanically fused via needle punch) 3/16" Max. aperture size	
Sock fabric	s composed of	f burlap may be		ects lasting 6 mont	
	-	· •	· •		

TABLE 4.2 Compost Standards - 100% (dry weight basis) Organic Portion Fibrous and elongated 5.5 - 8.5Moisture Conten 30% - 60% Particle Size 30% - 50% pass through 3/8" seive Soluble Salt Concentration

Material

Characteristics

Diameters

Mesh Opening

Strength Ultraviolet

Stability %

Original

Strength

(ASTM G-155)

Functional

Longevity



CEMENT

REPLA

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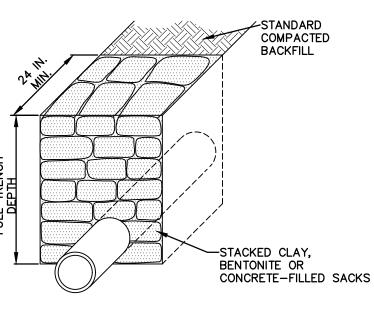
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DETAIL



DRAWN BY

* TOPSOIL MAY NOT BE USED TO FILL SACKS

<u>STANDARD CONSTRUCTION DETAIL #13-4</u>

CHECKED BY SCALE **AS NOTED**

07/11/2024 DATE DWG. NO. 161958200_SESC

1619.5.82.0

SHEET NO.

FILE NO.

4 OF 4