Rcd DWR em 3.21.2022

TENNESSEE DEPARTMENT OF ENVIRONMENT AND CONSERVATION
Division of Water Resources
William R. Snodgrass Tennessee Tower, 312 Rosa L. Parks Avenue, 11th Floor,
Nashville, Tennessee, 37243
1-888-891-8332 (TDEC)

Application for Aquatic Resource Alteration Permit (ARAP) & State §401 Water Quality Certification

OFFICIAL STATE USE ONLY	Site #:		Permit #:	NR2204.080

Section 1. Applicant Information (individual responsible for site, signs certification below)

Applicant Name (company or individual): Piedmont Natural Gas		SOS #: 00027629	Status: Active
Primary Contact/Signatory: Scotty Hazzard		Signatory's Title or Position: Project Manager	
Mailing Address: 83 Century Blvd		City: Nashville	State: TN Zip: 37214
Phone: 615-714-2389	Fax:	E-mail: Scotty.Hazzard@duke-energy.com	

Section 2. Alternate Contact/Consultant Information (a consultant is not required)

Alternate Contact Name: Louis.Barrentine@eli-llc.com			
Company: Energy Land & Infrastructure		Title or Position: Professional Engineer, CPESC	
Mailing Address: 1420 Donelson Pike, A-12		City: Nashville	State: TN Zip: 37217
Phone: 615-383-6300	Fax: 615-854-3741	E-mail: Louis.Barrentine@eli-llc.com	

Section 3. Fee (application will be incomplete until fee is received)

☐ No Fee ☒ Fee Submitted with Application Amount Submitted: $ 500

Current application fee schedules can be found at the Division of Water Resources webpage at:
https://www.tn.gov/environment/permit-permits/water-permits1/aquatic-resource-alteration-permit--arap-.html
or by calling (615) 532-0625. Please make checks payable to "Treasurer, State of Tennessee".

Billing Contact (if different from Applicant): Name: Scotty Hazard Email: Scotty.Hazzard@duke

Address: 83 Century Blvd Phone: 615-714-2389

Section 4. Project Details (fill in information and check appropriate boxes)

Site or Project Name: Hillsboro Road - Otter Creek Crossing	Nearest City, Town or Major Landmark: Nashville	
Street Address or Location (include zip): 6244 Hillsboro Pike, Nashville, TN 37215		
County(ies): Davidson	MS4 Jurisdiction: Nashville	Latitude (dd.dddd): 36.0529
		Longitude (dd.dddd): 86.8581

Resources Proposed for Alteration: ☑ Stream / River ☐ Wetland ☐ Reservoir

Name of Water Resource (for more information, access *http://tdeconline.tn.gov/dwr*): Otter Creek

Brief Project Description (a more detailed description is required under Section 8):
Installation of gas line to replace existing line

Does the proposed activity require approval from the U.S. Army Corps of Engineers, the Tennessee Valley Authority, or any other federal, state, or local government agency? ☐ Yes ☒ No

If Yes, provide the permit reference numbers:

Will the activity require a 401 Water Quality Certification: ☒ Yes ☐ No

If Yes, attach any 401 WQC pre-filing meeting request documentation

Is the proposed activity associated with a larger common plan of development: ☐ Yes ☒ No

If Yes, submit site plans and identify the location and overall scope of the common plan of development.

Plans attached? ☒ Yes ☐ No

If applicable, indicate any other federal, state, or local permits that are associated with the overall project site (common plan of development) that have been obtained in the past (e.g., construction general permit and/or other ARAP):

Application for Aquatic Resource Alteration Permit (ARAP) & State §401 Water Quality Certification

Section 5. Project Schedule (fill in information and check appropriate boxes)		
Proposed start date: March 2022	Estimated end date: December 2022	
Is any portion of the activity complete now?	☐ Yes	☒ No
If yes, describe the extent of the completed portion:		

The required information in Sections 6-11 must be submitted on a separate sheet(s) and submitted in the same numbered format as presented below. If any question in not applicable, state the reason why it is not applicable.

Section 6. Description		**Attached** Yes	No
6.1	A narrative description of the scope of the project	☒	☐
6.2	USGS topographic map indicating the exact location of the project (can be a photographic copy)	☒	☐
6.3	Photographs of the resource(s) proposed for alteration with location description (photo locations should be noted on map)	☒	☐
6.4	A narrative description of the **existing** stream and/or wetland characteristics including, but not limited to, dimensions (e.g., depth, length, average width), substrate and riparian vegetation	☒	☐
6.5	A narrative description of the **proposed** stream and/or wetland characteristics including, but not limited to, dimensions (e.g., depth, length, average width), substrate and riparian vegetation	☒	☐
6.6	In the case of wetlands, include a wetland delineation with delineation forms and site map denoting location of data points	☒	☐
6.7	A copy of all hydrologic or jurisdictional determination documents issued for water resources on the project site	☒	☐

Section 7. Project Rationale	**Attached** Yes	No
Describe the need for the proposed activity, including, but not limited to the purpose, alternatives considered and rationale for selection of least impactful alternative, and what will be done to avoid or minimize impacts to water resources	☒	☐

Section 8. Technical Information		**Attached** Yes	No
8.1	Detailed plans, specifications, blueprints, or legible sketches of present site conditions and the proposed activity. Plans must be 8.5.x 11 inches. Additional larger plans may also be submitted to aid in application review. The detailed plans should be superimposed on existing and new conditions (e.g., stream cross sections where road crossings are proposed)	☒	☐
8.2	For the proposed activity and compensatory mitigation, provide a discussion regarding the sequencing of events and construction methods and any proposed monitoring	☒	☐
8.3	Depiction and narrative on the location and type of erosion prevention and sediment control (EPSC) measures for the proposed alterations and any other measures to treat, control, or manage impacts to waters	☒	☐

Section 9. Water Resources Degradation (degree of proposed impact)

Note that in most cases, activities that exceed the scope of the General Permit limitations are considered greater than *de minimis* degradation to water quality.

Please provide your basis for concluding the proposed activity will cause one of the following levels of water quality degradation:

☒ a. *De minimis* degradation, no appreciable permanent loss of resource values
☐ b. Greater than *de minimis* degradation (if greater than *de minimis* complete Sections 10-11)

For information and guidance on the definition of de minimis and degradation, refer to the Antidegradation Statement in Chapter 0400-40-03-.06 of the Tennessee Water Quality Criteria Rule:
https://publications.tnsosfiles.com/rules/0400/0400-40/0400-40.htm
For more information on specifics on what General Permits can cover, refer to the Natural Resources Unit webpage at:
https://www.tn.gov/environment/permit-permits/water-permits1/aquatic-resource-alteration-permit--arap-.html

Application for Aquatic Resource Alteration Permit (ARAP) & State §401 Water Quality Certification

Section 10. Detailed Alternatives Analysis		Attached Yes	Attached No
10.1	Analyze all reasonable alternatives and describe the level of degradation and permanent loss of resource value caused by each alternative. Assessment must consider options other than the "Preferred" and "No Action" alternatives. Provide associated rationale for selecting or rejecting all alternatives considered and demonstration that the least impactful practicable alternative was selected.	☐	☒
10.2	Discuss the social and economic consequences of each alternative	☐	☒
10.3	Demonstrate that the degradation associated with the preferred alternative will not violate water quality criteria for uses designated in the receiving waters, and is necessary to accommodate important economic and social development in the area	☐	☒

Section 11. Compensatory Mitigation		Attached Yes	Attached No
11.1	A detailed discussion of the proposed compensatory mitigation. Provide evidence of credit reservation if proposing to utilize a third-party provider.	☒	☐
11.2	Analysis of any proposed appreciable loss of resource value using the TN Stream Mitigation Guidelines. Provide Stream Quantification Tool (SQT) results if applicable. Include Existing Condition Score (ECS) and debit/credit calculations.	☒	☐
11.3	Describe how the compensatory mitigation would result in no net loss of resource value	☒	☐
11.4	Provide a detailed monitoring plan for the compensatory mitigation site if permittee-responsible project is proposed	☒	☐
11.5	Describe the long-term protection measures for the compensatory mitigation site if permittee-responsible project is proposed (e.g., deed restrictions, conservation easement)	☒	☐

Certification and Signature

An application submitted by a corporation must be signed by a principal executive officer; from a partnership or proprietorship, by the partner or proprietor respectively; from a municipal, state, federal or other public agency or facility, the application must be signed by either a principal executive officer, ranking elected official, or other duly authorized employee. ***I certify under penalty of law that this document and all attachments were prepared by me, or under my direction or supervision. The submitted information is to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment. As specified in Tennessee Code Annotated Section 39-16-702(a)(4), this declaration is made under penalty of perjury. The project proponent hereby requests that the certifying authority review and take action on this CWA 401 certification request within the applicable reasonable period of time.***

Scott Hazzard	Distribution Project Specialist	Scott Hazzard	02/03/2022
Printed Name	Official Title	Signature	Date

Note that this form must be signed by the principal executive officer, partner or proprietor, or a ranking elected official in the case of a municipality; for details see **Certification and Signature** statement above. For more information, contact your local EFO at the toll-free number 1-888-891-8332 (TDEC). Submit the completed ARAP Application form (keep a copy for your records) to the appropriate EFO for the county(ies) where the proposed activity is located, addressed to **Attention: ARAP Processing**. You may also electronically submit the complete application and all associated attachments to water.permits@tn.gov.

EFO	Street Address	Zip Code	EFO	Street Address	Zip Code
Memphis	8383 Wolf Lake Drive, Bartlett	38133-4119	Cookeville	1221 South Willow Ave.	38506
Jackson	1625 Hollywood Drive	38305-4316	Chattanooga	1301 Riverfront Pkwy., Ste. 206	37402
Nashville	711 R S Gass Boulevard	37243	Knoxville	3711 Middlebrook Pike	37921
Columbia	1421 Hampshire Pike	38401	Johnson City	2305 Silverdale Road	37601

ENERGY LAND & INFRASTRUCTURE

March 15, 2022

Tennessee Department of Environment and Conservation
Environmental Field Office
Attn: ARAP Processing
711 R.S. Gass Boulevard
Nashville, TN 37243

RE: PERMIT APPLICATION PACKAGE
PIEDMONT NATURAL GAS – HILLSBORO ROAD AT OTTER CREEK
NASHVILLE, DAVIDSON COUNTY, TENNESSEE

Enclosed is a Notice of Intent (NOI) for coverage under the General Aquatic Resource Alteration Permit (ARAP) application for Distrubution Gas Line Crossings. This request for the proposed Hillsboro Road Transmission Main Installation Project beginning near the entrance of Bridleway Trail and ending near the address 6224 TN-106. The TDEC fee of $500 will be sent by mail to the Nashville EAC. The applicant for this project is Piedmont Natural Gas, 83 Century Boulevard, Nashville, Tennessee 37214.

The proposed project will install a 4-inch steel natural gas distribution line. The gas line will be installed by using the horizontal directional drilling.

Thank you for your consideration of this application. If you have questions or need additional information please contact us at (615)–383–6300 or by email at Louis.Barrentine@eli-llc.com

Sincerely,

ENERGY LAND & INFRASTRUCTURE, LLC

M. L Barrentine III

Louis Barrentine, P.E.

Enclosure

cc: Mr. Scotty Hazzard, PNG

Tennessee Department of Environment and Conservation
Division of Water Pollution Control
Application for Aquatic Resource Alteration Permit (ARAP)
Supplemental Information

PNG Hillsboro Road at Otters Creek HDD 4" Steel Distribution Gas Line
Nashville, Davidson County, Tennessee

Section 6. Project Description

Section 6.1 – Narrative Description of Project

Piedmont Natural Gas proposes to install a 4-inch steel natural gas distribution line approximately 2,130 feet in length from an existing gas line along Hillsboro Road throughout the. The gas line will be installed within the existing roadway right-of-way of. It will be installed by using the Horizontal Directional Drilling (HDD) method. The surface of the disturbed areas associated with the gas line installation will be stabilized with seed and straw.

Section 6.2 – USGS Map

The USGS Map for this project is attached.

Section 6.3 – Project Photographs

Photographs of the crossing locations are attached.

Section 6.4 - Existing Feature Characteristics

WATER RESOURCES					
WATERCOURSE NAME	CHARACTERISTICS	RECEIVING WATER	LATITUDE	LONGITUDE	CROSSING TYPE
D-1	5'-8' wide and less than 2' deep Mowed to edge	Otters Creek	36.0529	-86.8581	HDD

Section 6.5 - Proposed Feature Characteristics

There should be no long-term impacts to the streams due to the construction of the proposed pipeline.

Section 6.6 – Wetland Delineation

A wetland delineation was not performed since the project is in existing right-of-way.

Section 6.7 – Hydrologic or Jurisdictional Determination Documents

A Hydrologic Determination was not performed since the project is in existing right-of-way.

Section 7. Project Rationale

The proposed gas line will install a new natural gas line to provide natural gas to a residential subdivision.

Section 8. Technical Information

Section 8.1 – Plans

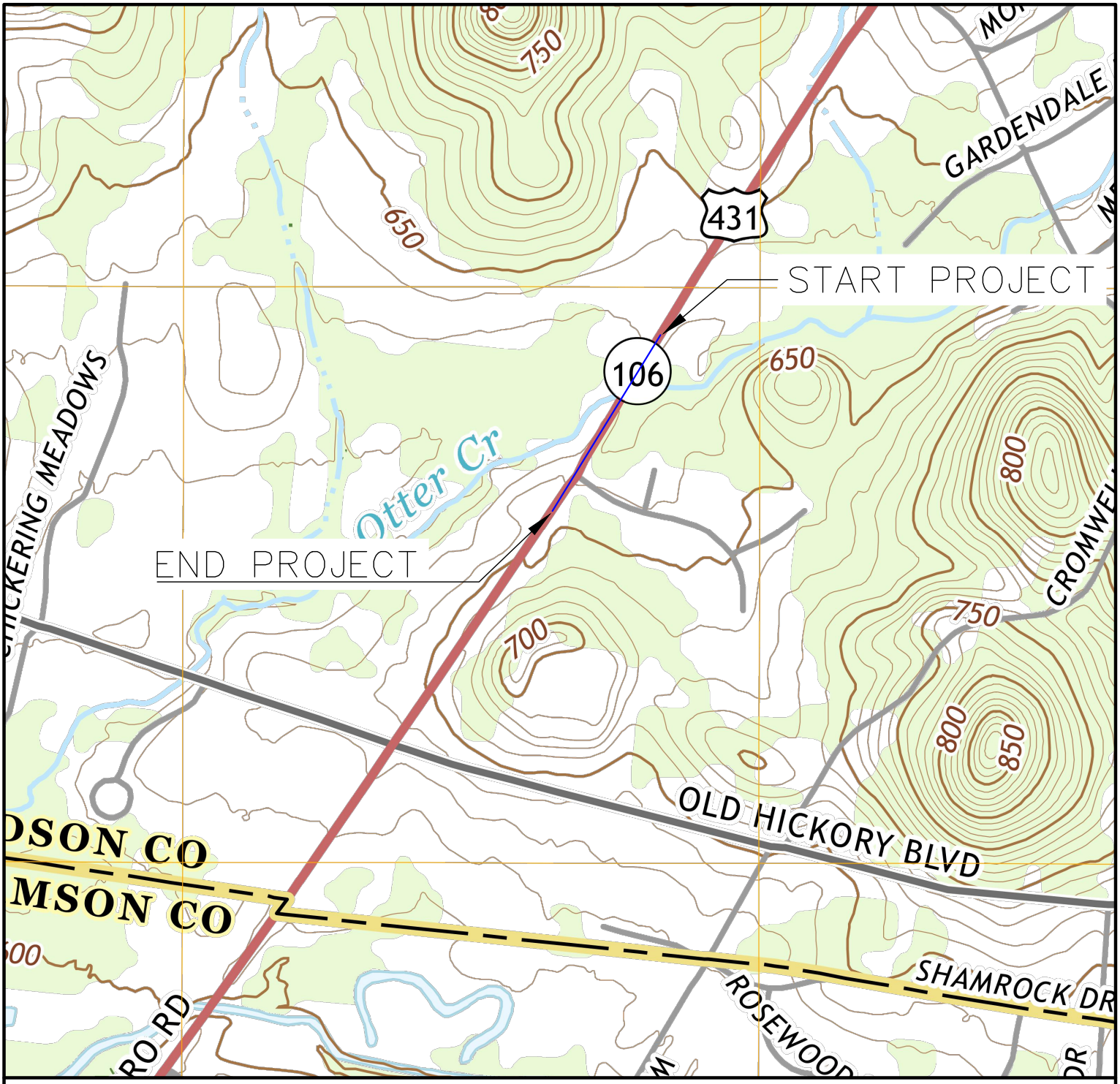
A project plan is attached.

Section 8.2 – Sequencing of Events and Construction Methods

1. Obtain plan approval and permits.
2. Hold pre-construction conference.
3. Flag construction limits.
4. Install erosion control measures.
5. Begin installing pipe per plans.
6. Completed area should be seeded within 7 days after pipe has been installed and final grading or as soon as practicable. All disturbed area shall be seeded within 14 days after work has ceased.
7. All disturbed area shall be stabilized with seed and straw, hydroseeding, or sod.
8. Remove erosion and sediment controls following final inspection and signoff from local stormwater or engineering representative.

Section 8.3 – Location and Type of EPSC Measures

EPSC measures such as compost filter sock and check dams will be placed appropriately to prevent sediment from entering waters of the state. Project plans are attached.



SCALE: 1" = 2000'

1 1/2 0 1 MILE

1000 0 1000 2000 3000 4000 5000 6000 7000 FEET

N

CONTOUR INTERVAL 10 FEET/20 FEET

NATIONAL AMERICAN VERTICAL DATUM OF 1988

SOURCE: USGS 7.5–MINUTE TOPOGRAPHIC QUADRANGLE, OAK HILL, TN

DATE:	PREPARED BY:	SCALE:	PROJECT NO.	FIGURE
02/02/2022	JAB	AS SHOWN	22–12–3207	SITE

USGS SITE LOCATION MAP

HILLSBORO ROAD - OTTERS CREEK CROSSING

DAVIDSON COUNTY, TENNESSEE

ENERGY LAND & INFRASTRUCTURE

745 S CHURCH ST, SUITE 805 • MURFREESBORO, TN 37130

OFFICE 615-383-6300 • WWW.ELI-LLC.COM

ENGINEERS • SURVEYORS • INFRASTRUCTURE • ENVIRONMENTAL

Photo 1

Looking south along Otter creek down Hillsboro Pike.

Photo 2

Looking west from Hillsboro Pike at Otters Creek.

Photo 3

Looking north along Hillsboro Pike at Otter Creek to the west.

Photo 4

Looking south along Hillsboro Pike with Otters creek to the east in the photo.

Photo 5

Looking directly north up the stream facing east off of Hillsboro Pike.

Photo 6

Looking directly north up the stream facing east off of Hillsboro Pike.

rrr

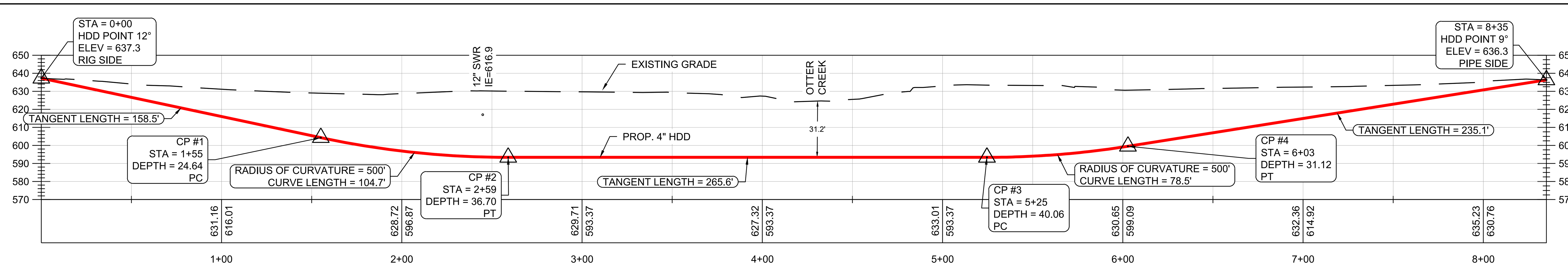
RIGHT-OF-WAY	
OWNERSHIP	
ACREAGE	
EASEMENTS	HILLSBORO PIKE ROW (TDOT)
REF. DWG. NO.	

STATIONING: HDD ENTRY STA. = 0+00; TIE-IN STA. = 0+20; OHE STA. = 1+00; SWR STA. = 2+45; OTTER CREEK STA. = 4+36; TIE-IN STA. = 8+11; HDD EXIT STA. = 8+35

PLAN

PIPE DATA (SLOPE STATIONING): HEAT# / JOINT# / JOINT LENGTH / (COV.) / WELD # / STA.

PROFILE



EROSION CONTROL LEGEND PRACTICE	
CODE	
TCE	TEMP. CONSTRUCTION ENTRANCE
LOD	LIMIT OF DISTURBANCE
CFS	COMPOST FILTER SOCK
CD	CHECK DAM
PS	PERMANENT SEEDING

EROSION AND SEDIMENT CONTROL MEASURES SHALL COMPLY WITH THE REQUIREMENTS SET FORTH IN THE TENNESSEE "EROSION AND SEDIMENT CONTROL HANDBOOK".

1. HDD LENGTH = 842.4 LF
2. CALCULATED APPROX PULLBACK = 8,061 LBS
3. STEEL PIPE SPECIFICATION: 4.50" x 0.237"
4. CENTER LINE OF PIPE SHOWN. ALL ELEVATIONS ARE TO CENTER OF PIPE.
5. MAINTAIN MINIMUM 3 FT VERTICAL SEPARATION BETWEEN OUTSIDE OF PROPOSED PIPE AND ALL FOREIGN UTILITIES.
6. ALL CONSTRUCTION ACTIVITIES SHALL BE IN ACCORDANCE WITH LOCAL AND STATE ENVIRONMENTAL REGULATIONS.
7. APPROXIMATE LOCATION ADDRESS: 6249 TN-106, FOREST HILLS, TN 37215

MATERIAL	4.5" X 0.237" API-5L PSL-2 X-52, ERW ARO
CONST. METHOD	HDD
CLASS / MAOP	

PRELIMINARY PLANS

NOT FOR CONSTRUCTION

REF. DWG(S)

NO.	DATE	REVISION(S) DESCRIPTION	BY	CHK	APPD
0	03/10/2022	ISSUE FOR REVIEW	JAM	MLB	

DESCRIPTION	
AREA CODE	####
ACCOUNT NUMBER	#####
PROJECT NUMBER	########
DRAWING BY	JAM
STATION ID	
CHECKER INITIALS	MLB

APPROVALS DATE	INITIALS	
XX/XX/20XX	XXX	REGIONAL ENGINEER
XX/XX/20XX	XXX	MGR TECH REC & STD
XX/XX/20XX	XXX	PRINCIPAL ENGINEER

DUKE ENERGY. Piedmont Natural Gas

HILLSBORO PIKE - OTTER CREEK
4-IN STEEL HDD PLAN & PROFILE
FOREST HILLS, TENNESSEE

Resource Center NASHVILLE, TENNESSEE

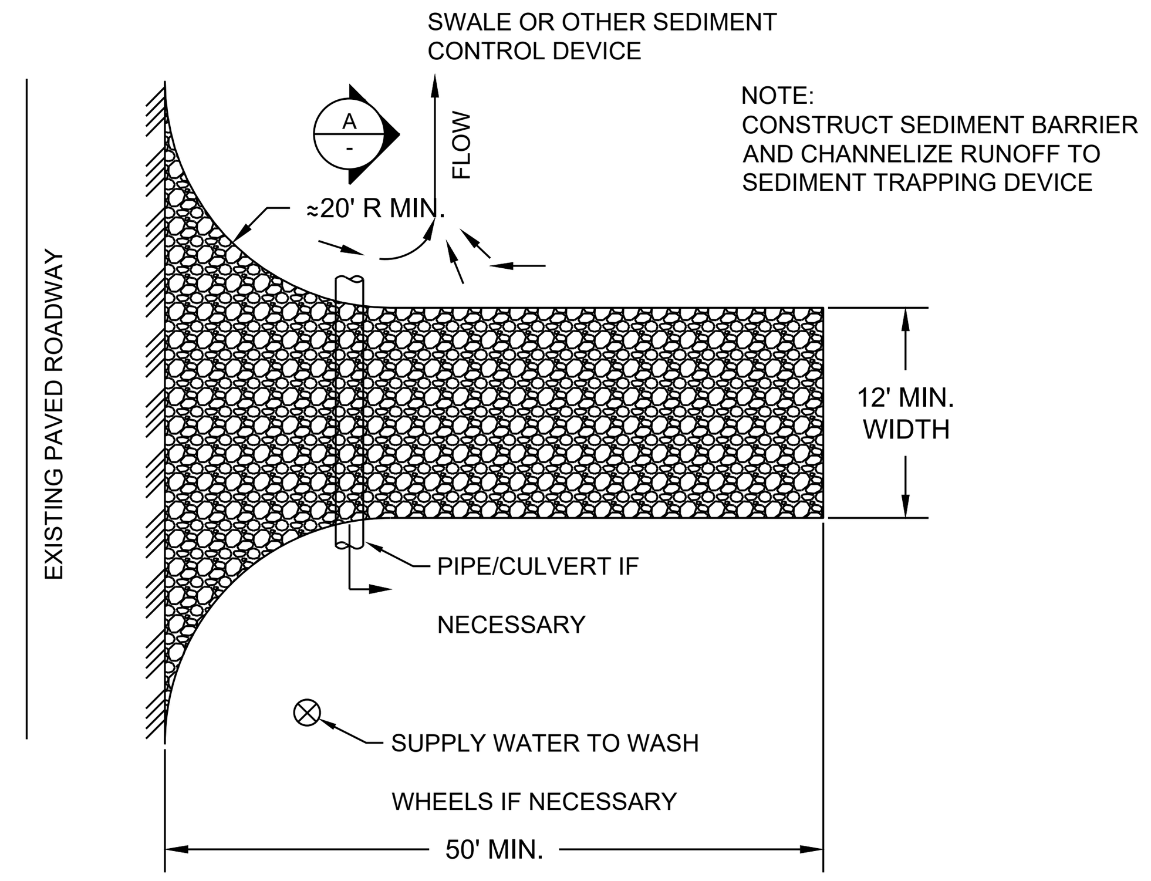
SHEET(S) 001 OF 002	DWG SCALE AS SHOWN
DWG DATE 01/27/2022	SUPERSEDED

DRAWING NUMBER: PNG -C-017-0000### REVISION: 0

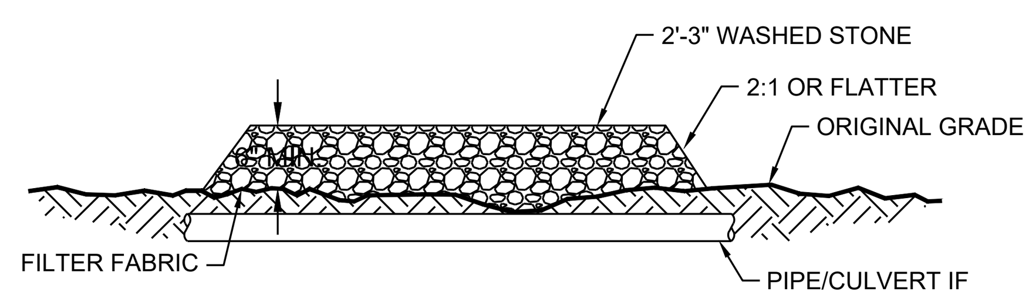
DISCIPLINE / RESOURCE CENTER / LINE NUMBER

CONSTRUCTION SPECIFICATIONS:

1. STONE SIZE - USE 2'-3" WASHED STONE OR LARGER AS SPECIFIED IN TN DEPARTMENT OF TRANSPORTATION STANDARD SPECIFICATIONS FOR ROADS AND STRUCTURES.
2. WIDTH - 12' MIN.
3. WASHING - WHEN NECESSARY, WHEELS SHALL BE CLEANED TO REMOVE SEDIMENT PRIOR TO ENTRANCE ONTO PUBLIC R.O.W. WHEN WASHING IS REQUIRED, IT SHALL BE DONE ON AN AREA STABILIZED WITH CRUSHED STONE WITH DRAINS INTO AN APPROVED SEDIMENT TRAP OR SEDIMENT BASIN. ALL SEDIMENT SHALL BE PREVENTED FROM ENTERING ANY STORM DRAIN, DITCH, OR WATERCOURSE THROUGH USE OF SAND BAGS, GRAVEL, BOARDS, OR OTHER APPROVED METHODS.
4. MAINTENANCE - THE ENTRANCE SHALL BE MAINTAINED IN A CONDITION WHICH WILL PREVENT TRACKING OR FLOWING OF SEDIMENT ONTO PUBLIC R.O.W. THIS MAY REQUIRE PERIODIC TOP DRESSING WITH ADDITIONAL STONE AS CONDITIONS DEMAND AND REPAIR AND/OR CLEANOUT OF ANY MEASURES USED TO TRAP SEDIMENT. ALL SEDIMENT SPILLED, DROPPED, WASHED, OR TRACKED ONTO PUBLIC R.O.W. MUST BE REMOVED IMMEDIATELY.

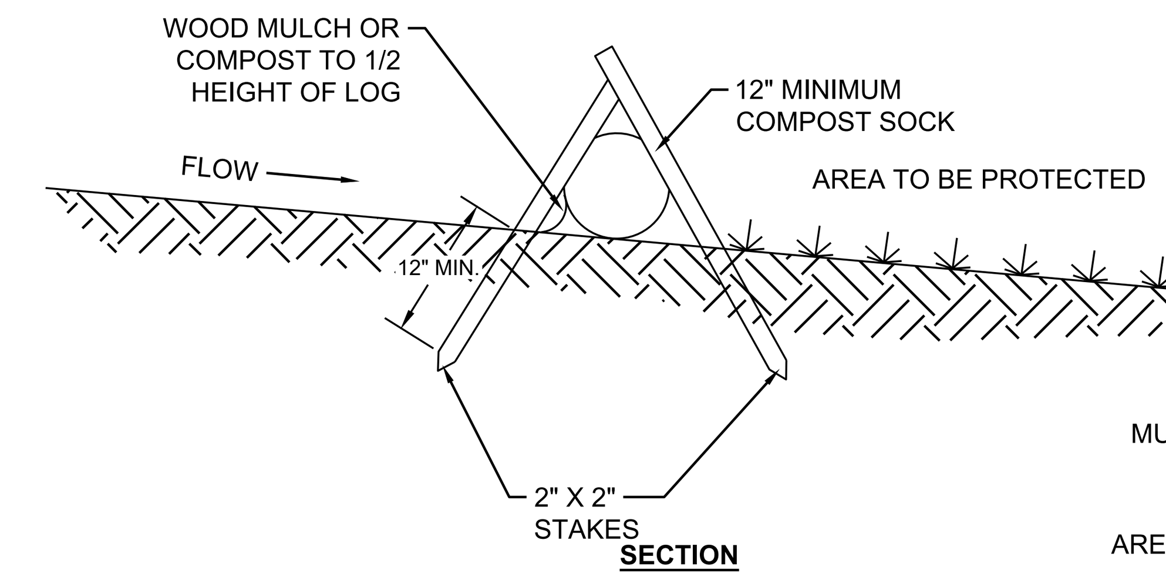


PLAN VIEW

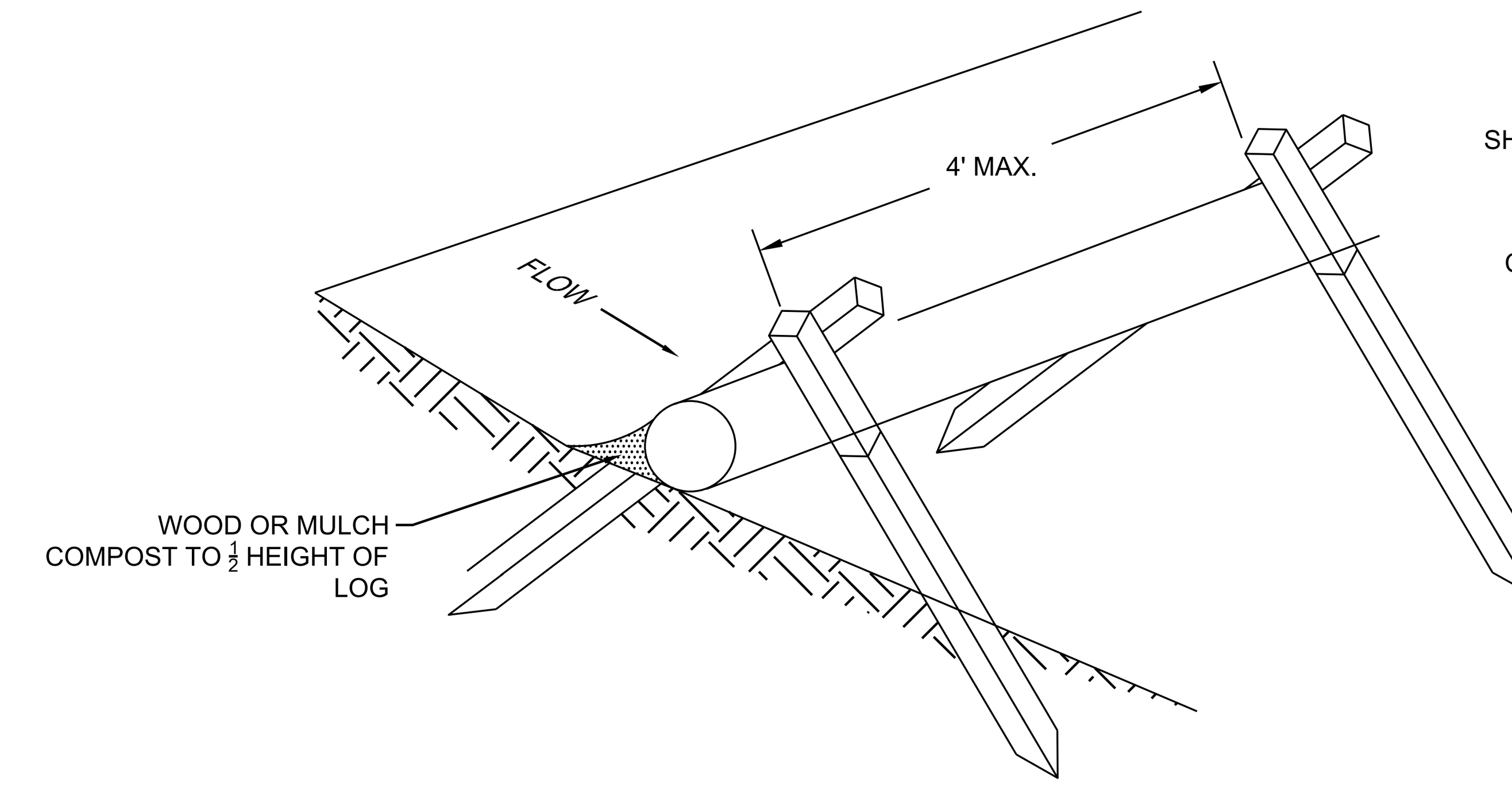


SECTION A

TEMPORARY CONSTRUCTION ENTRANCE
DETAIL — NOT TO SCALE — 1

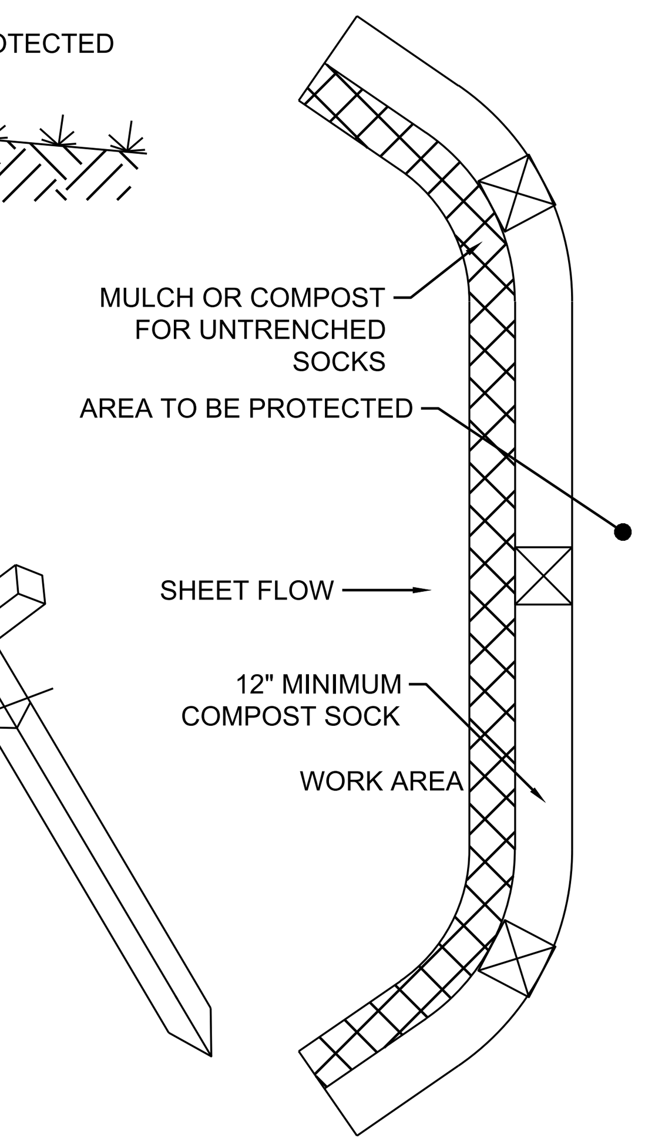


SECTION



UNTRENCHED INSTALLATION

PLAN



INSTALLATION:

1. COMPOST SOCKS SHOULD BE LOCATED AS SHOWN ON THE EROSION AND SEDIMENTATION CONTROL PLAN.
2. PRIOR INSTALLATION, CLEAR ALL OBSTRUCTIONS INCLUDING ROCKS, CLODS, AND OTHER DEBRIS GREATER THAN ONE INCH THAT MAY INTERFERE WITH PROPER FUNCTION OF THE COMPOST SOCK
3. FILL SOCK NETTING UNIFORMLY WITH COMPOST TO THE DESIRED LENGTH SUCH THAT LOGS DO NOT DEFORM.
4. OAK OR OTHER DURABLE HARDWOOD STAKES 2"X2" IN CROSS SECTION SHOULD BE USED. STAJES SHOULD BE PLACED AT A MAXIMUM INTERVAL OF 4 FEET AND SHOULD BE DRIVEN TO A MINIMUM DEPTH OF 12 INCHES, WITH A MINIMUM OF 3 INCHES PROTRUDING ABOVE THE COMPOST SOCK.
5. IN THE EVENT STAKING IS NOT POSSIBLE (I.E., WHEN SOCKS ARE USED ON PAVEMENT) HEAVY CONCRETE BLOCKS SHALL BE USED BEHIND THE SOCK TO HOLD IN PLACE DURING RUNOFF EVENTS, SANDBAGS MAY ALSO BE PLACED ON SOCK.
6. IF THE COMPOST SOCK IS TO BE LEFT AS PART OF HE NATURAL LANDSCAPE, IT MAY BE SEEDED AT TIME OF INSTALLATION FOR ESTABLISHMENT OF PERMANENT VEGETATION USING THE SEEDING SPECIFICATIONS IN THE EROSION AND SEDIMENTATION CONTROL PLAN.
7. COMPOST SOCKS ARE NOT TO BE USED IN PERENNIAL STREAMS.

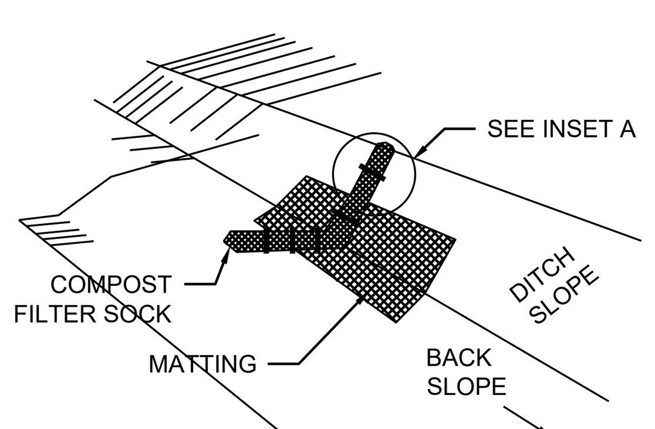
MAINTENANCE:

INSPECT COMPOST SOCKS WEEKLY AFTER EACH SIGNIFICANT RAINFALL EVENT (1 INCH OR GREATER) REMOVE ACCUMULATED SEDIMENT AND ANY DEBRIS. THE COMPOST SOCK IF CLOGGED OR TORN. IF PONDING BECOMES EXCESSIVE, THE SOCK MAY NEED TO BE REPLACED WITH A LARGER DIAMETER OR A DIFFERENT MEASURE. THE SOCK NEEDS TO BE REINSTALLED IF UNDERMINED OR DISLODGED. THE COMPOST SOCK SHALL BE INSPECTED UNTIL LAND DISTURBANCE IS COMPLETE AND THE AREA ABOVE THE MEASURE HAS BEEN PERMANENTLY STABILIZED.

DISPOSAL/RECYCLING:

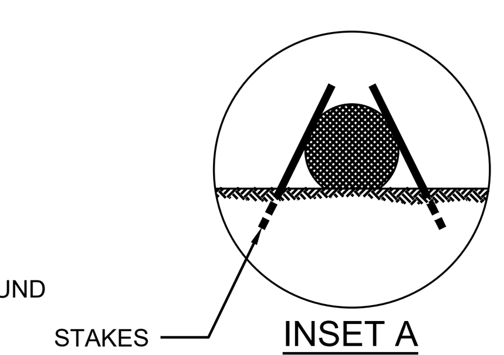
COMPOST MEDIA IS COMPOSTED ORGANIC PRODUCT RECYCLED AND MANUFACTURED FROM LOCALLY GENERATED ORGANIC, NATURAL, AND BIOLOGICALLY BASED MATERIALS. ONCE ALL SOIL HAS BEEN STABILIZED AND CONSTRUCTION ACTIVITY HAS BEN COMPLETED,THE COMPOST MATERIAL MAY BE DISPERSED WITH A LOADER, RAKE, BULLDOZER OR SIMILAR DEVICE AND MAY BE INCORPORATED INTO THE SOIL AS AN AMENDMENT OR LEFT ON THE SOIL SERVICE TO AID IN THE PERMANENT SEEDING AND LANDSCAPING. LEAVING THE COMPOST MEDIA ON SITE REDUCES REMOVAL AND DISPOSAL COSTS COMPARED TO OTHER SEDIMENT CONTROL DEVICES. THE MESH NETTING MATERIAL WILL BE EXTRACTED FROM MEDIA AND DISPOSED OF PROPERLY. THE PHOTODEGRADABLE MESH MATERIAL WITH DEGRADE IN 2 TO 5 YEARS IF LEFT ON SITE. BIODEGRADABLE MESH MATERIAL IS AVAILABLE AND DOES NOT NEED TO BE EXTRACTED AND DISPOSED OF, AS IT WILL COMPLETELY DECOMPOSE IN 6 TO 12 MONTHS. USING BIODEGRADABLE COMPOST SOCKS COMPLETELY ELIMINATES THE NEED AND COST OF REMOVAL AND DISPOSAL.

COMPOST FILTER SOCK INSTALLATION
DETAIL — NOT TO SCALE — 2

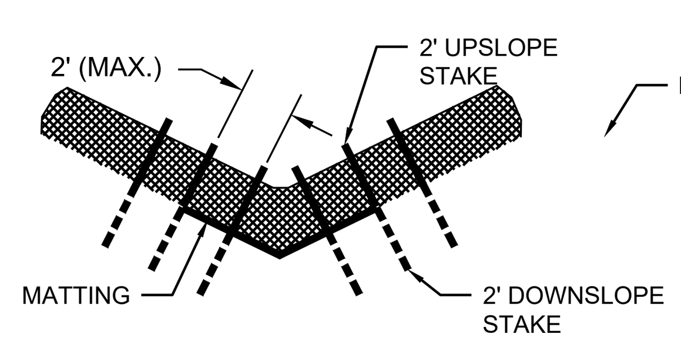


ISOMETRIC VIEW

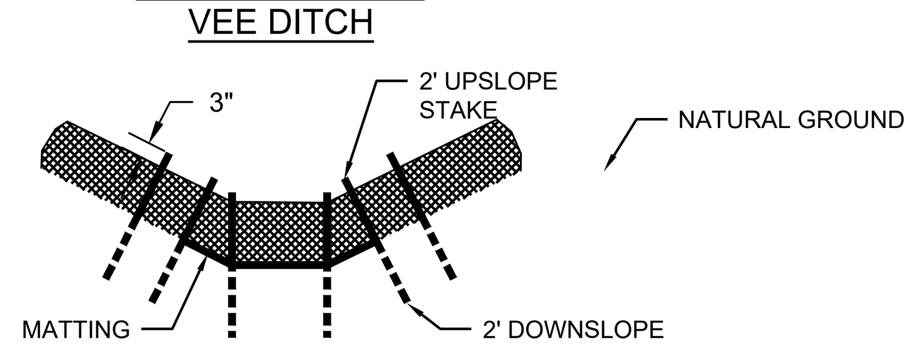
NOTES:
1. USE MINIMUM 12" DIAMETER EXCELSIOR FILTER SOCK.
2. USE 2' WOODEN STAKES WITH A 2" X 2" NOMINAL CROSS SECTION.
3. ONLY INSTALL WATTLE(S) TO A HEIGHT IN DITCH SO FLOW WILL NOT WASH AROUND WATTLE AND SCOUR DITCH SLOPES AND AS DIRECTED.
4. INSTALL A MINIMUM OF 2 UPSLOPE STAKES AND 4 DOWNSLOPE STAKES AT AN ANGLE TO WEDGE FILTER SOCK TO BOTTOM OF DITCH.
5. INSTALL MATTING IN ACCORDANCE WITH THE MANUFACTURERS SPECIFICATIONS.



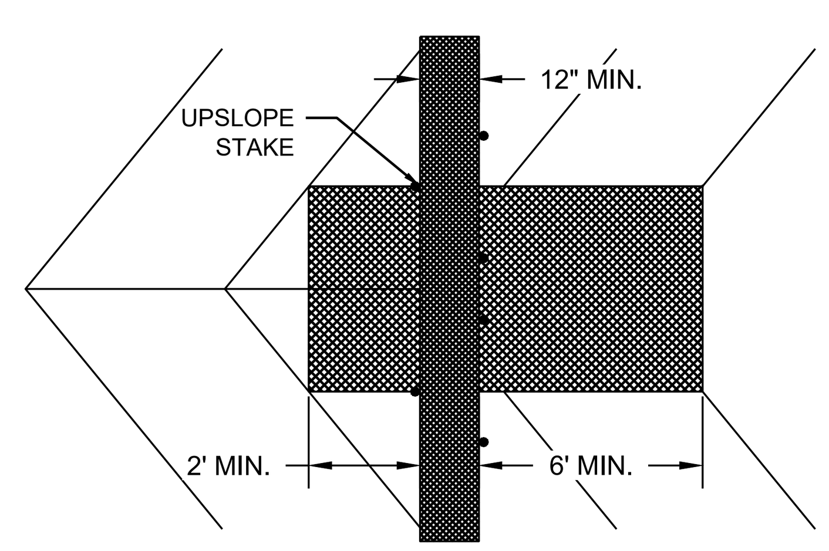
INSET A



CROSS SECTION
VEE DITCH



CROSS SECTION
TRAPEZOIDAL DITCH



TOP VIEW

CHECK DAM (COMPOST FILTER SOCK)
DETAIL — NOT TO SCALE — 3

PRELIMINARY PLANS

NOT FOR CONSTRUCTION

REF DWG (S)

NO.	DATE	REVISION(S) DESCRIPTION	BY	CHK	APPD
0	02/##/2022	ISSUE FOR REVIEW	JAM	MLB	

DESCRIPTION	
AREA CODE	####
ACCOUNT NUMBER	#####
PROJECT NUMBER	########
DRAWING BY	JAM
STATION ID	
CHECKER INITIALS	MLB

APPROVALS DATE	INITIALS	
XX/XX/20XX	XXX	REGIONAL ENGINEER
XX/XX/20XX	XXX	MGR TECH REC & STD
XX/XX/20XX	XXX	PRINCIPAL ENGINEER

DUKE ENERGY. Piedmont Natural Gas

HILLSBORO PIKE - OTTER CREEK
EPSC DETAILS
FOREST HILLS, TENNESSEE

Resource Center NASHVILLE, TENNESSEE

SHEET(S) 002 OF 002	DWG SCALE AS SHOWN
DWG DATE 01/27/2022	SUPERSEDED
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