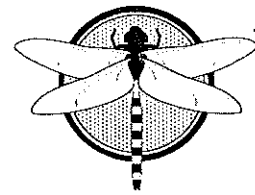


CLOVER CREEK STREAM RESTORATION PROJECT DESIGN DRAWINGS

WOODBURY TOWNSHIP
BLAIR COUNTY, PENNSYLVANIA

PREPARED BY:



BluAcres·LLC
Wetlands and Wildlife Habitat

PREPARED FOR:

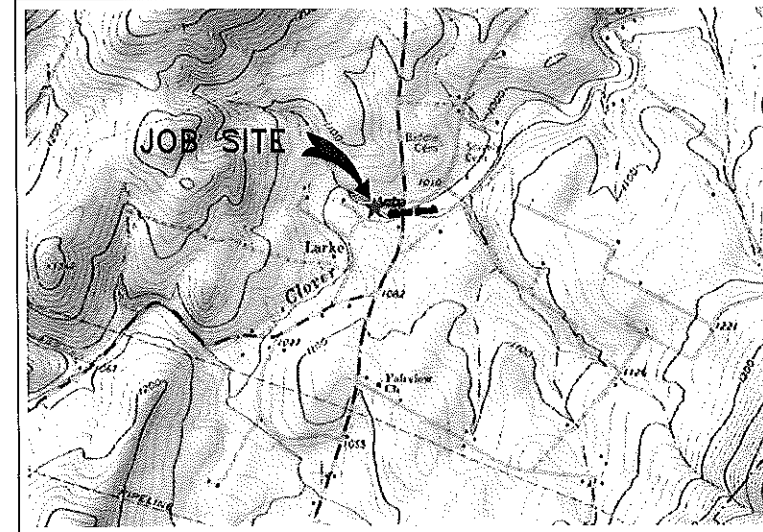
BLAIR COUNTY CONSERVATION DISTRICT

1407 BLAIR STREET
HOLLIDAYSBURG, PENNSYLVANIA 16648

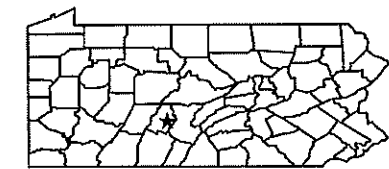
&

ROBERT LEAMER

233 MOCKS BRIDGE RD.
WILLIAMSBURG, PENNSYLVANIA 16693



PROJECT LOCATION



COUNTY: BLAIR
TOWNSHIP: WOODBURY
QUAD: WILLIAMSBURG
LATITUDE: 40.42849° N
LONGITUDE: -78.20513° W

SHEET INDEX

1. COVER SHEET
2. PLAN VIEW
3. CROSS SECTION A-A'
4. CROSS SECTION B-B'
5. CROSS SECTION C-C'
6. CONSTRUCTION DETAILS
7. CONSTRUCTION DETAILS

GENERAL NOTES:

1. THIS STREAM STABILIZATION PLAN HAS BEEN PREPARED FOR THE BLAIR COUNTY CONSERVATION DISTRICT & ROBERT LEAMER FOR THE PURPOSE OF BANK STABILIZATION AND PREVENTING FURTHER EROSION ALONG CLOVER CREEK.
2. BASEMAP WAS GENERATED FROM SITE SURVEY DATED MAY 10, 2023 AND INTERGRATED WITH LIDAR CONTOURS FROM PA MAP PROGRAM, SURROUNDING SITE FEATURES (E.G., TREELINES, ROADWAYS, AND STREAMS) APPROXIMATED USING PAMAP AERIAL IMAGERY.
3. THE CONTRACTOR IS RESPONSIBLE FOR THE LOCATION OF ALL UNDERGROUND UTILITIES PRIOR TO THE START OF CONSTRUCTION AND TO COMPLY WITH THE PROVISIONS OF PENNSYLVANIA ACT 187 (1996) BEFORE PERFORMING ANY EXCAVATION WORK.
4. THE CONTRACTOR WILL BE RESPONSIBLE FOR ANY DAMAGE TO PRIVATE PROPERTY INCLUDING BUT NOT LIMITED TO FENCES AND PRIVATE ROADS RESULTING FROM ACTIVITIES ASSOCIATED WITH COMPLETING THIS PLAN. REPAIRS FOR ANY SUCH DAMAGES WILL BE MADE AT THE CONTRACTORS EXPENSE TO THE SATISFACTION OF THE PROPERTY OWNER.



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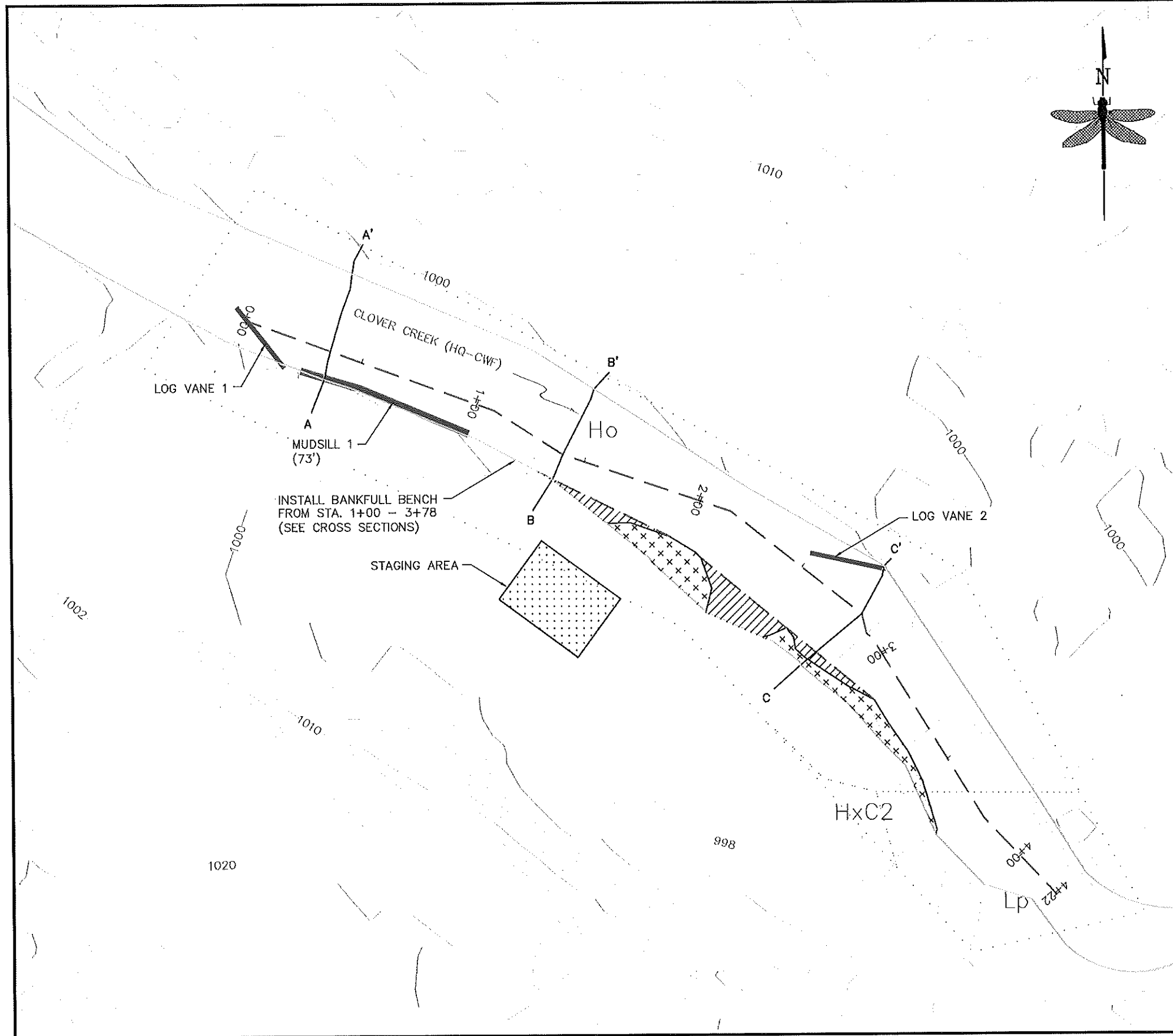
COVER SHEET

CLOVER CREEK RESTORATION
WOODBURY TOWNSHIP
BLAIR COUNTY, PENNSYLVANIA

DATE:
6/26/2023

DESIGNED BY:
T.M.
DRAWN BY:
T.M.
CHECKED BY:
T.M./C.W.

REVISIONS:	CAD FILE: Clover Creek Restoration.dwg
PAGE NO.: -	SHEET: 1 of 7



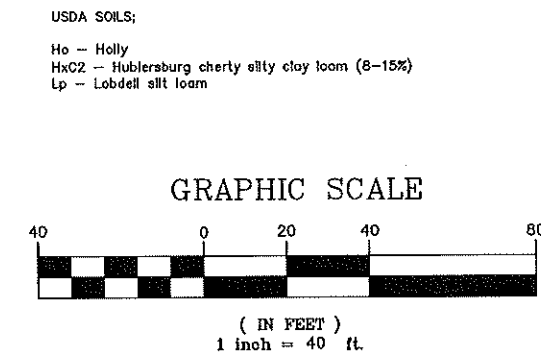
LEGEND

	EXISTING CONTOUR
	EXISTING THALWEG
	SOIL TYPE
	EXISTING STREAMBANK
	PROPOSED STREAMBANK
	FILL AREA
	STAGING AREA
	EXISTING POINT BAR

NOTES:

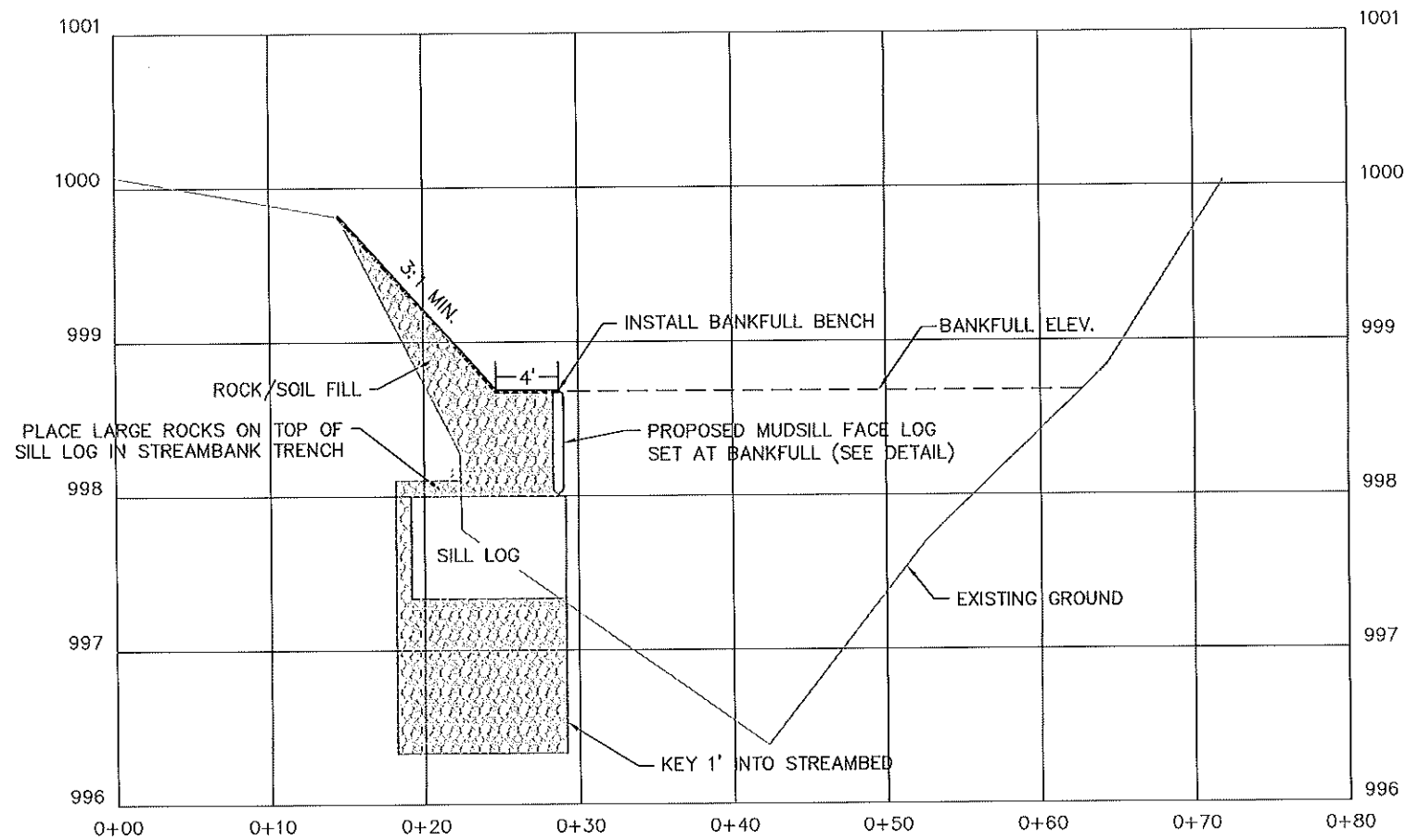
1. Basemap generated from site surveys dated MAY 10, 2023 and integrated with LIDAR contours from the PAMAP program. Surrounding site features (e.g., Treelines and roadways) approximated using PAMAP Aerial Imagery.
2. Horizontal and vertical control is based on NAD83, PA SOUTH State Plane Coordinates and NAVD88 elevations. RTK GPS methods were used and the state plane coordinates and NAVD88 elevations of the base station "100" were determined by OPUS (On-Line Positioning User Service) holding the CORS Stations LYCO CNTY CTH, PAFM MCCONNELLSBURG, LOYS LOYOLA S, PAJP PUNKSUTAWNEY, PAPC COUDERSPORT 2, LOYQ LOYOLA LOYQ, PAWG GREENSBURG, PACS SHIPPENVILLE CORS, AND PASS SCHUYLKILL HAVEN CORS. All coordinates are true state plane.
3. On-Site Control, Horizontal and Vertical:

NORTH	EAST	ELEV	DESC.
100	399057.18	1841700.50	1024.46 IP W/CAP



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Wetlands and Wildlife Habitat
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(814) 407-4736 | www.bluacres.com

PLAN VIEW	DATE: 6/26/2023
CLOVER CREEK RESTORATION WOODBURY TOWNSHIP BLAIR COUNTY, PENNSYLVANIA	DESIGNED BY: TML/CW DRAWN BY: TML SURVEYED BY: TML/CW
CAD FILE: Clover Creek Restoration.dwg	PAGE NO.: —
SHEET: 2 of 7	



CROSS SECTION A-A'

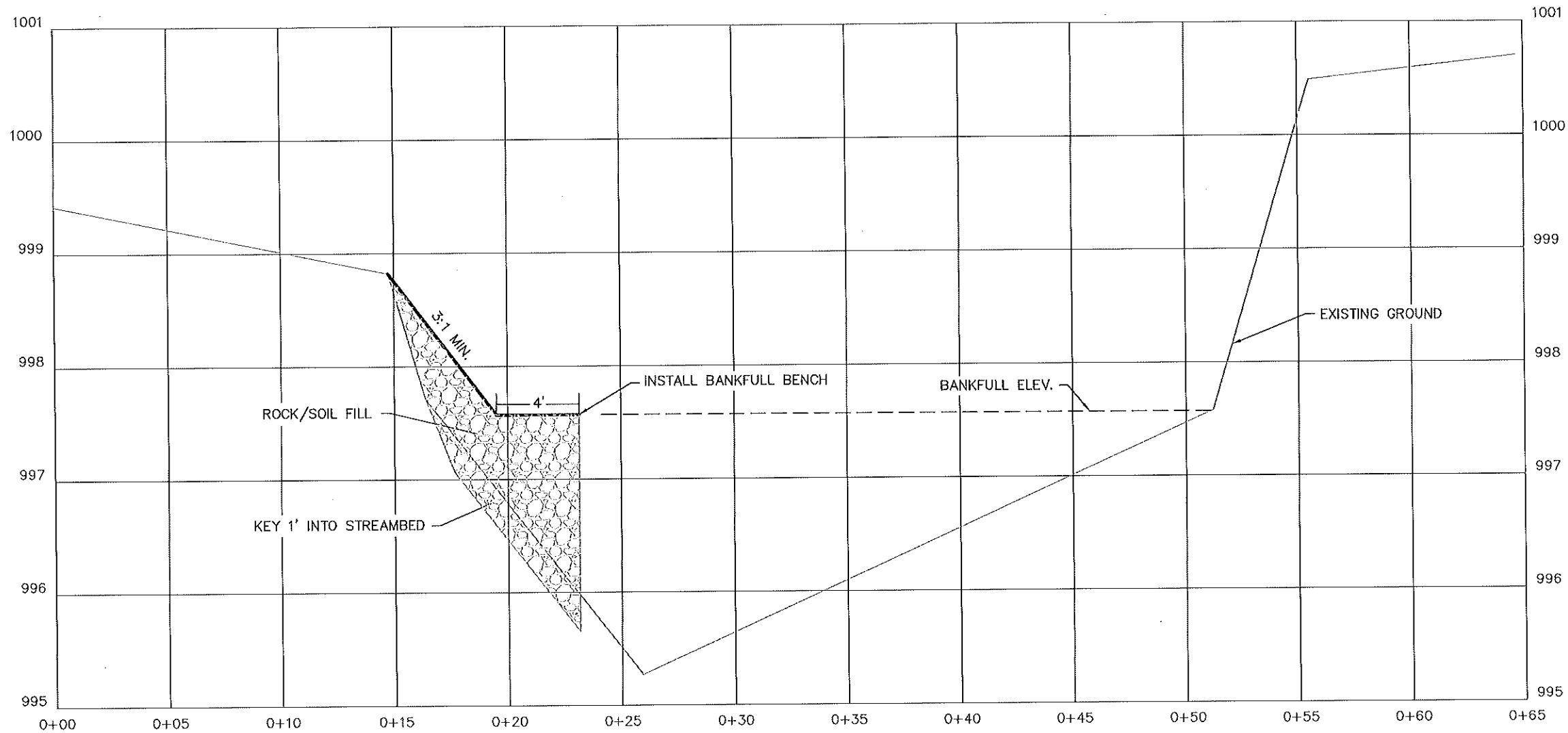


CROSS SECTION A-A'
 CLOVER CREEK RESTORATION
 WOODBURY TOWNSHIP
 BLAIR COUNTY, PENNSYLVANIA

DATE:
6/26/2023
 DESIGNED BY:
T.M.L./C.W.
 DRAWN BY:
T.M.L.
 SURVEYED BY:
T.M.L./C.W.

REVISIONS

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Clover Creek Restoration.dwg
 PAGE NO.: -
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3 of 7



CROSS SECTION B-B'

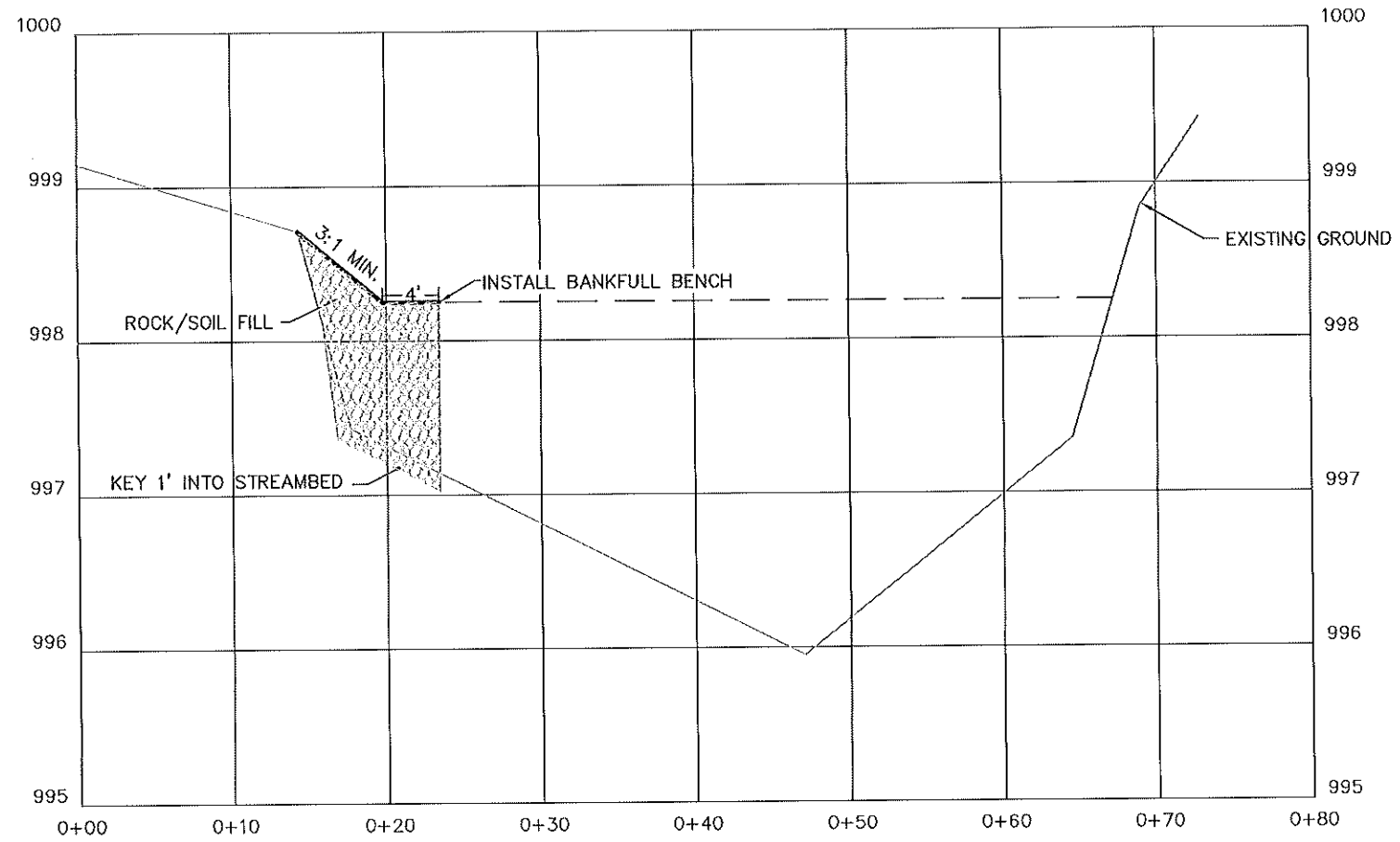
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 (814) 407-4736 | www.bluacres.com

DATE: 6/26/2023


DESIGNED BY: TML/CW
 DRAWN BY: TML
 SURVEYED BY: TML/CW

CROSS SECTION B-B'
 CLOVER CREEK RESTORATION
 WOODBURY TOWNSHIP
 BLAIR COUNTY, PENNSYLVANIA

REVISIONS:	CAD FILE:	SHEET:
-	Clover Creek Restoration.dwg	4 of 7
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CROSS SECTION C-C'



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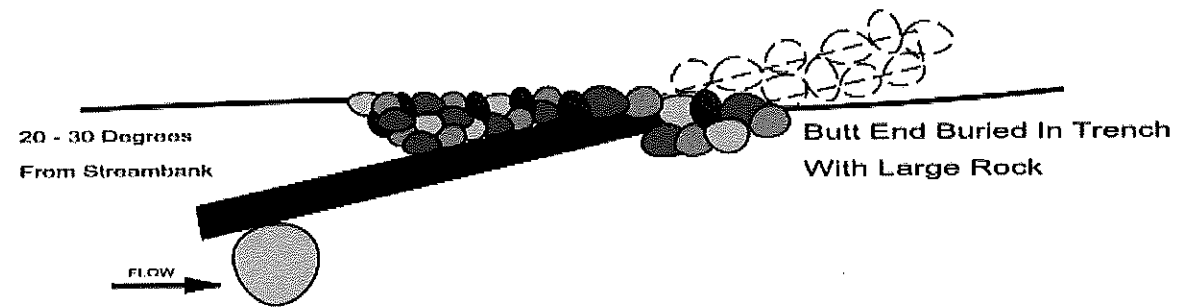
Wetlands and Wildlife Habitat

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(814) 407-4738 | www.bluacres.com

CROSS SECTION C-C'		<small>DATE:</small> 6/26/2023
CLOVER CREEK RESTORATION WOODBURY TOWNSHIP BLAIR COUNTY, PENNSYLVANIA		<small>DESIGNED BY:</small> TML/CW <small>DRAWN BY:</small> TML <small>SURVEYED BY:</small> TML/CW
<small>REVISIONS:</small>	<small>CAD FILE:</small> Clover Creek Restoration.dwg	<small>PAGE NO.:</small> - <small>SHEET:</small> 5 of 7

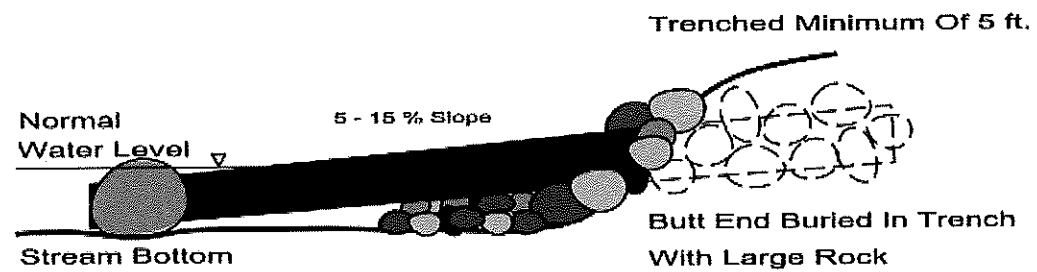
SINGLE LOG VANE DEFLECTOR

Plan View



NOTE: Can place a large rock at tip as a brace.

Section View



11119, PFRG 2004

CONSTRUCTION DETAIL

CLOVER CREEK RESTORATION
WOODBURY TOWNSHIP
BLAIR COUNTY, PENNSYLVANIA

DATE:
6/6/2023

DESIGNED BY:
TML/CW
DRAWN BY:
TML
CHECKED BY:
TML/CW

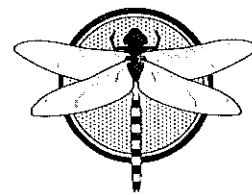
REVISIONS:

CAD FILE:	PAGE NO.:	SHEET:
Clover Creek Restoration.dwg	-	6 of 7

SEVEN FALLS ANGLERS CLUB FISH HABITAT PROJECT

WOODBURY TOWNSHIP
BLAIR COUNTY, PENNSYLVANIA

PREPARED BY:



BluAcres • LLC
Wetlands and Wildlife Habitat

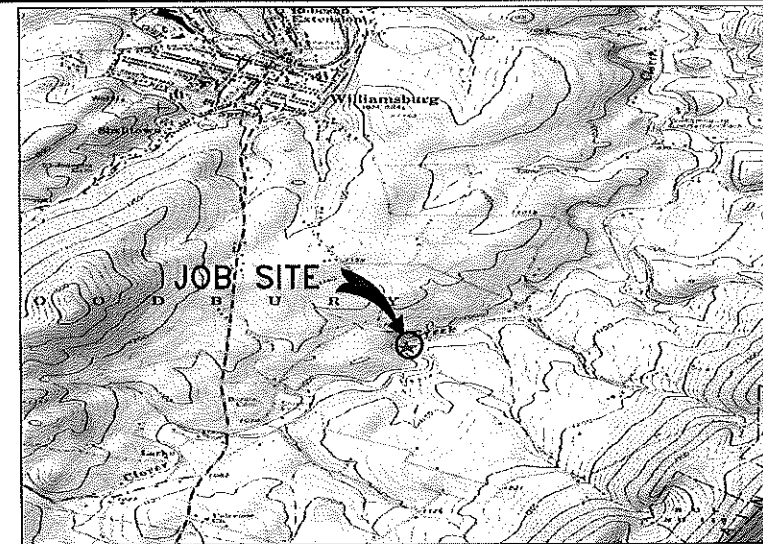
PREPARED FOR:

SEVEN FALLS ANGLERS CLUB

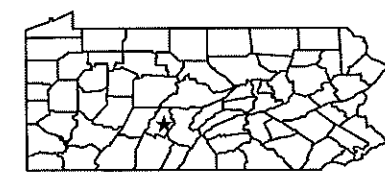
1137 BIDDLE ROAD
WILLIAMSBURG, PENNSYLVANIA 16693

GENERAL NOTES:

1. THIS FISH HABITAT PLAN HAS BEEN PREPARED FOR THE SEVEN FALLS ANGLERS CLUB FOR THE PURPOSE OF INCREASING HABITAT WITHIN CLOVER CREEK ALONG THE CLUB'S PROPERTY.
2. THE CONTRACTOR IS RESPONSIBLE FOR THE LOCATION OF ALL UNDERGROUND UTILITIES PRIOR TO THE START OF CONSTRUCTION AND TO COMPLY WITH THE PROVISIONS OF PENNSYLVANIA ACT 187 (1996) BEFORE PERFORMING ANY EXCAVATION WORK.
3. THE CONTRACTOR WILL BE RESPONSIBLE FOR ANY DAMAGE TO PRIVATE PROPERTY INCLUDING BUT NOT LIMITED TO FENCES AND PRIVATE ROADS RESULTING FROM ACTIVITIES ASSOCIATED WITH COMPLETING THIS PLAN. REPAIRS FOR ANY SUCH DAMAGES WILL BE MADE AT THE CONTRACTORS EXPENSE TO THE SATISFACTION OF THE PROPERTY OWNER.



PROJECT LOCATION



COUNTY: BLAIR
TOWNSHIP: WOODBURY
QUAD: WILLIAMSBURG
LATITUDE: 40.436418' N
LONGITUDE: -78.191582' W

SHEET INDEX

1. COVER SHEET
2. PLAN VIEW
3. CONSTRUCTION DETAIL
4. CONSTRUCTION DETAIL
5. CONSTRUCTION DETAIL
6. CONSTRUCTION DETAIL
7. EROSION AND SEDIMENT CONTROL PLAN
8. EROSION AND SEDIMENT CONTROL DETAILS
9. EROSION AND SEDIMENT CONTROL DETAILS
10. EROSION AND SEDIMENT CONTROL NOTES



COVER SHEET

SEVEN FALLS ANGLERS CLUB
WOODBURY TOWNSHIP
BLAIR COUNTY, PENNSYLVANIA

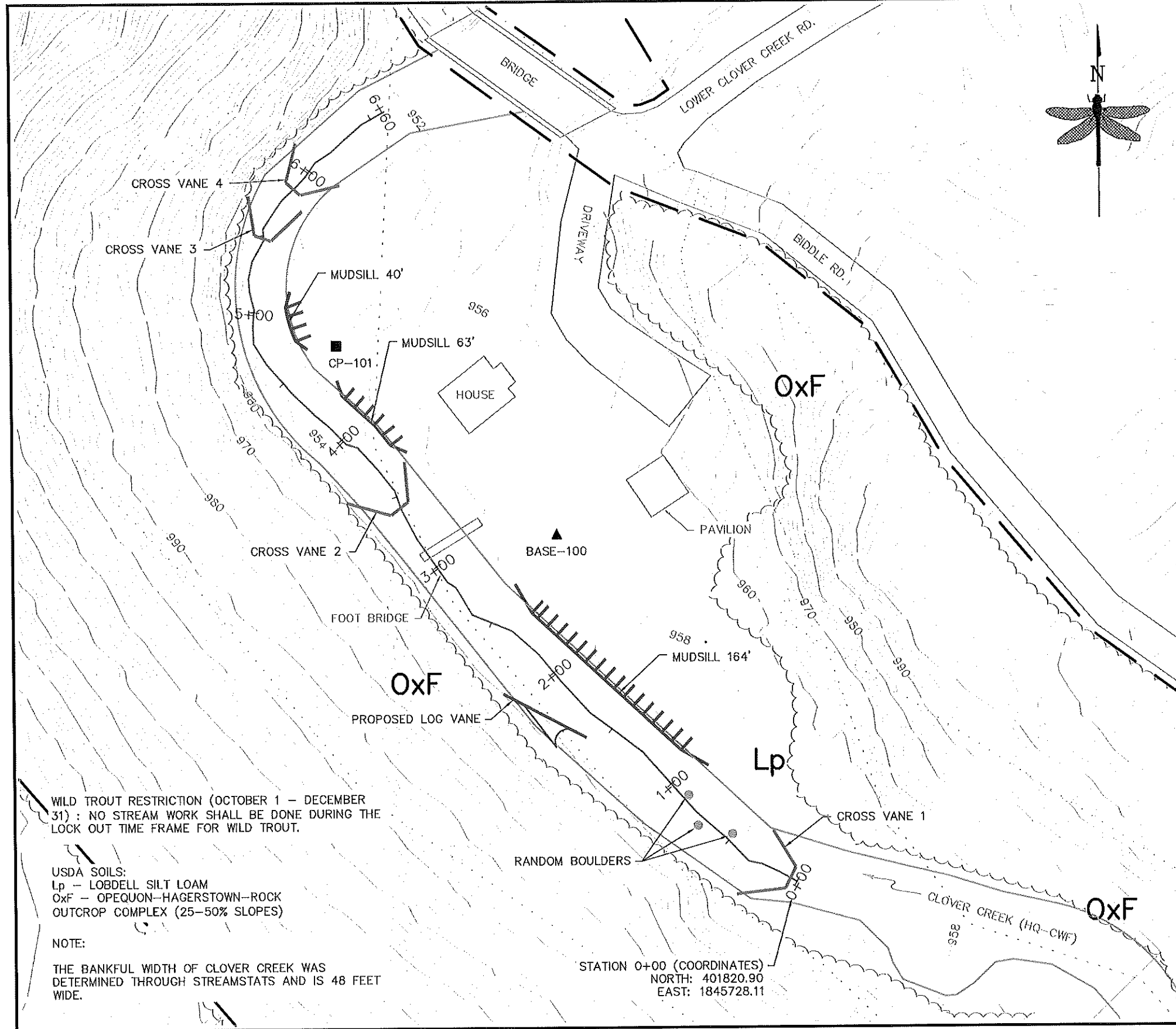
DATE:
12/27/2023

DESIGNED BY:
T.M.L.
DRAWN BY:
T.M.L.
SURVEYED BY:
T.M.L./N.M.W.



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LEGEND

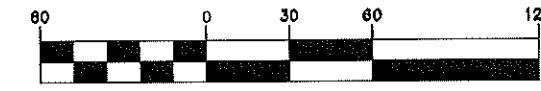
- 1300 EXISTING LIDAR CONTOUR (2') 2006-08
- EXISTING THALWEG
- EXISTING STREAMBANK
- EXISTING TREELINE
- USDA SOILS
- APPROXIMATE PROPERTY LINE
- PROPOSED MUDSILL
- PROPOSED ROCK CROSS VANE
- PROPOSED ROCK BOULDERS
- PROPOSED LOG VANE

NOTES:

1. Basemap generated from site survey dated DECEMBER 14, 2023 and intergrated with LIDAR contours from the PAMAP program. Surrounding site features (e.g., Treelines and roadways) approximate using PAMAP Aerial Imagery.
2. Horizontal and vertical control is based on NAD83, PA South State Plane Coordinates and NAVD88 elevations. RTK GPS methods were used and the state plane coordinates and NAVD88 elevations of the base station "100" were determined by OPUS (On-Line Positioning User Service) holding the CORS Stations PAMC COUDERSPORT 2, PAFM MCCONNELLSBURG, LOYS LOYOLA S, PAMM MERCER, LOYQ LOYOLA LOYQ, PAWG GREENSBURG, NYSM SALAMANCA, and NYFS FRIENDSHIP CORS. All coordinates are true state plane.
3. On-Site Control, Horizontal and Vertical:

	NORTH	EAST	ELEV	DESC.
100	402035.13	1845581.99	956.93	BASE-100
101	402152.65	1845446.97	955.00	CP-101

GRAPHIC SCALE



(IN FEET)
1 inch = 60 ft.

WILD TROUT RESTRICTION (OCTOBER 1 - DECEMBER 31) : NO STREAM WORK SHALL BE DONE DURING THE LOCK OUT TIME FRAME FOR WILD TROUT.

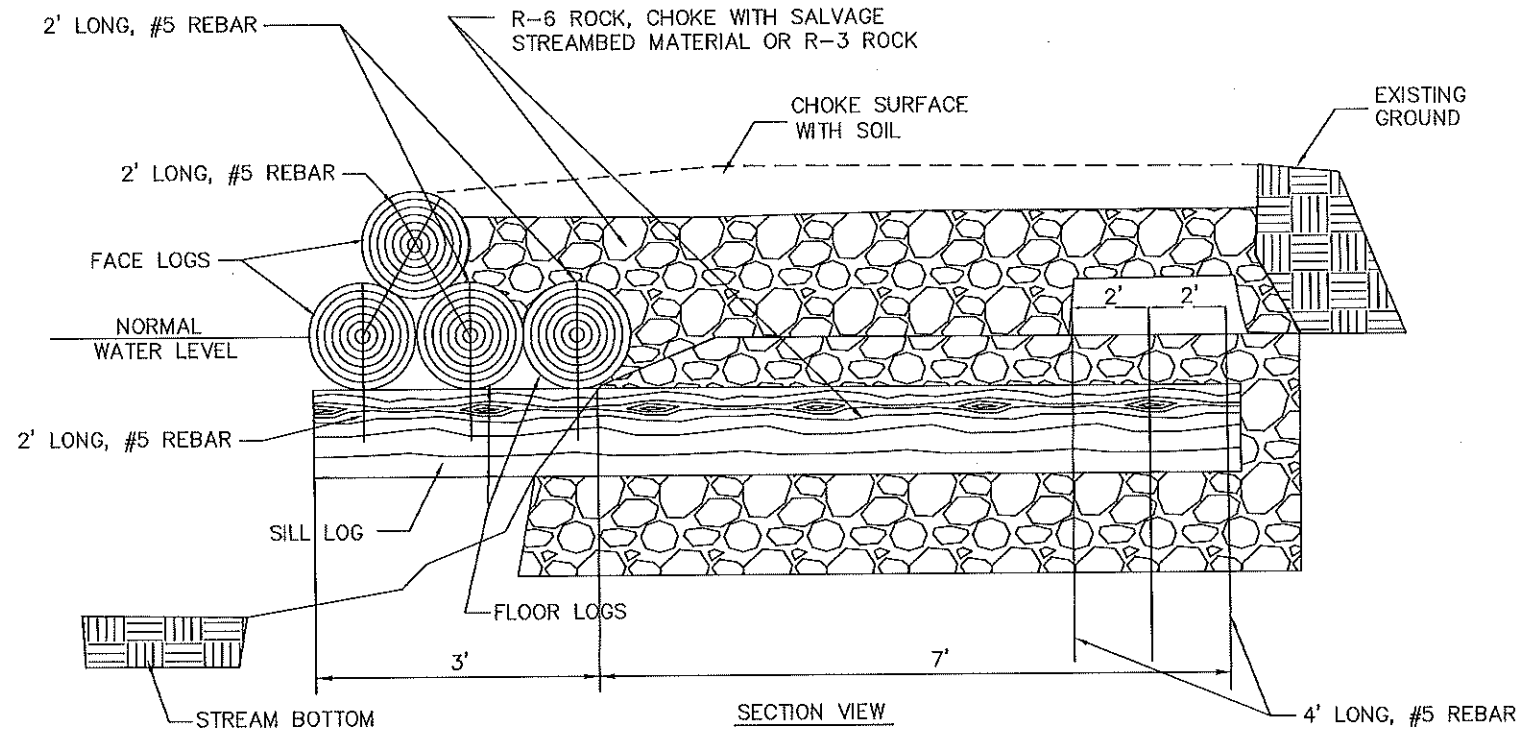
USDA SOILS:
Lp - LOBDELL SILT LOAM
OxF - OPEQUON-HAGERSTOWN-ROCK OUTCROP COMPLEX (25-50% SLOPES)

NOTE:
THE BANKFUL WIDTH OF CLOVER CREEK WAS DETERMINED THROUGH STREAMSTATS AND IS 48 FEET WIDE.

STATION 0+00 (COORDINATES)
NORTH: 401820.90
EAST: 1845728.11

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PLAN VIEW		DATE: 12/27/2023
SEVEN FALLS ANGLERS CLUB WOODBURY TOWNSHIP BLAIR COUNTY, PENNSYLVANIA		DESIGNED BY: TML
		DRAWN BY: TML
		SURVEYED BY: TML/NMW
REVISIONS:	CAD FILE: Seven Falls Anglers Club.dwg	SHEET: 2 of 1
	PAGE NO.: -	

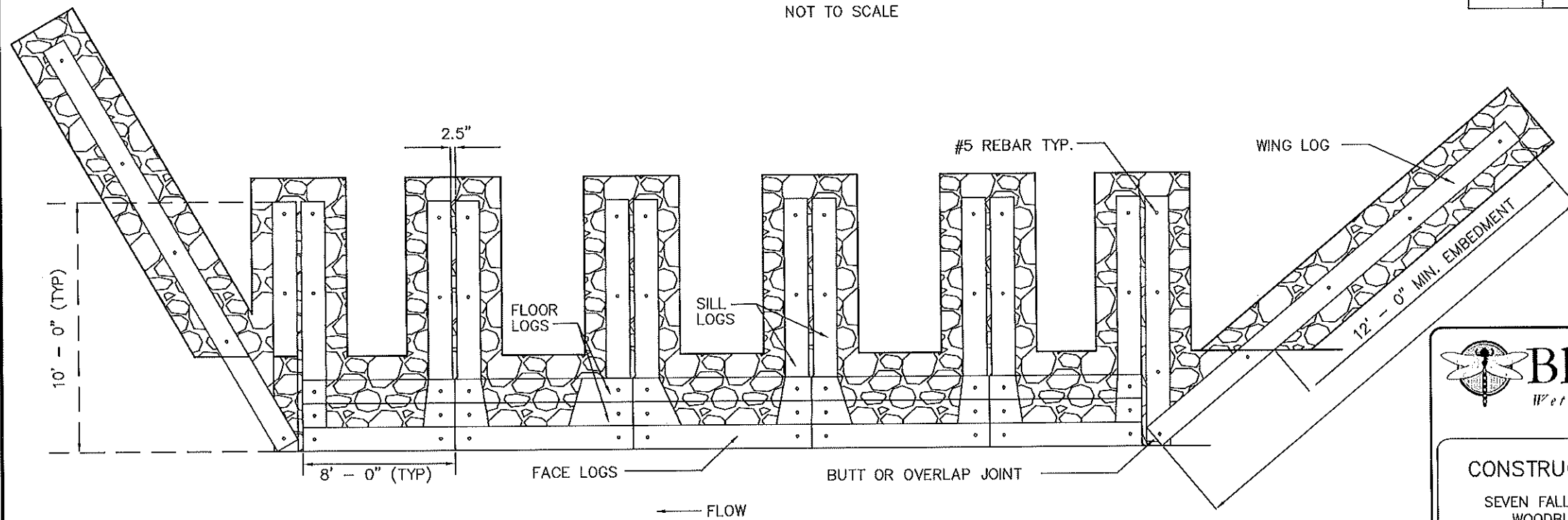


MODIFIED MUDSILL

NOT TO SCALE

MUDSILL LOCATION & LENGTHS

LENGTH	BEGIN	END
164'	STA. 0+93	STA. 2+57
63'	STA. 3+66	STA. 4+29
40'	STA. 4+57	STA. 4+97



PLAN VIEW

NOT TO SCALE

TIMBER NOTES:

SILL LOGS = 10'
 FACE LOGS = 8'
 LOG DIA. = 8-12"

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CONSTRUCTION DETAIL
 SEVEN FALLS ANGLERS CLUB
 WOODBURY TOWNSHIP
 BLAIR COUNTY, PENNSYLVANIA

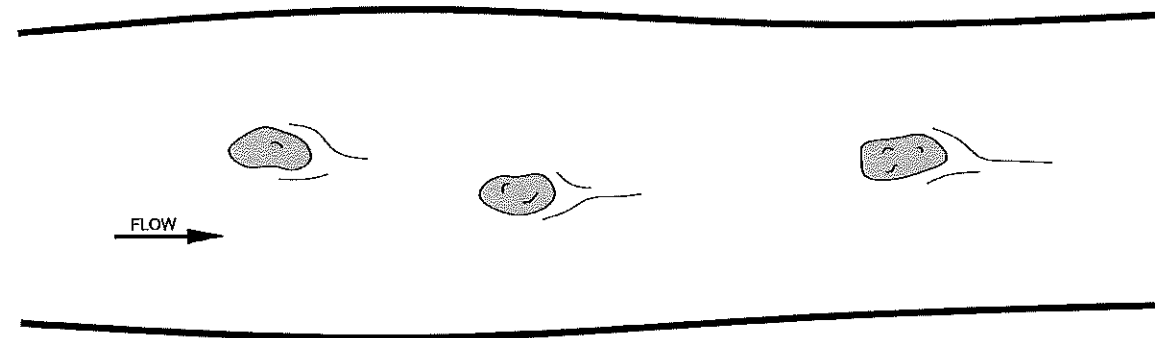
DATE: 12/27/2023
 DESIGNED BY: TML
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 SHEET: 3 of 1

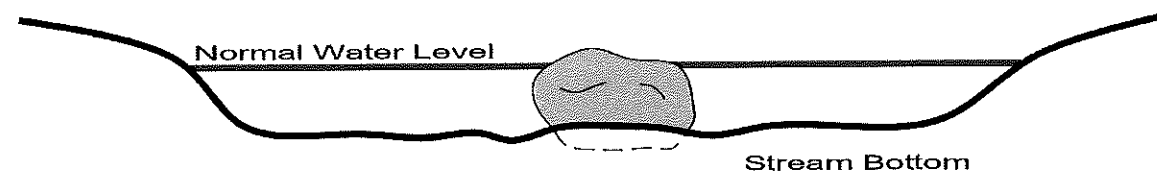
RANDOM BOULDER PLACEMENT

Plan View



Note: Place boulders in the middle third of the wetted width of the stream to prevent flow deflection into the streambanks

Section View



Note: Boulder should be large enough not to be displaced during high flow periods
Boulder height should be within 2" of normal water level

DHM, PFBC 2022



NOTE:

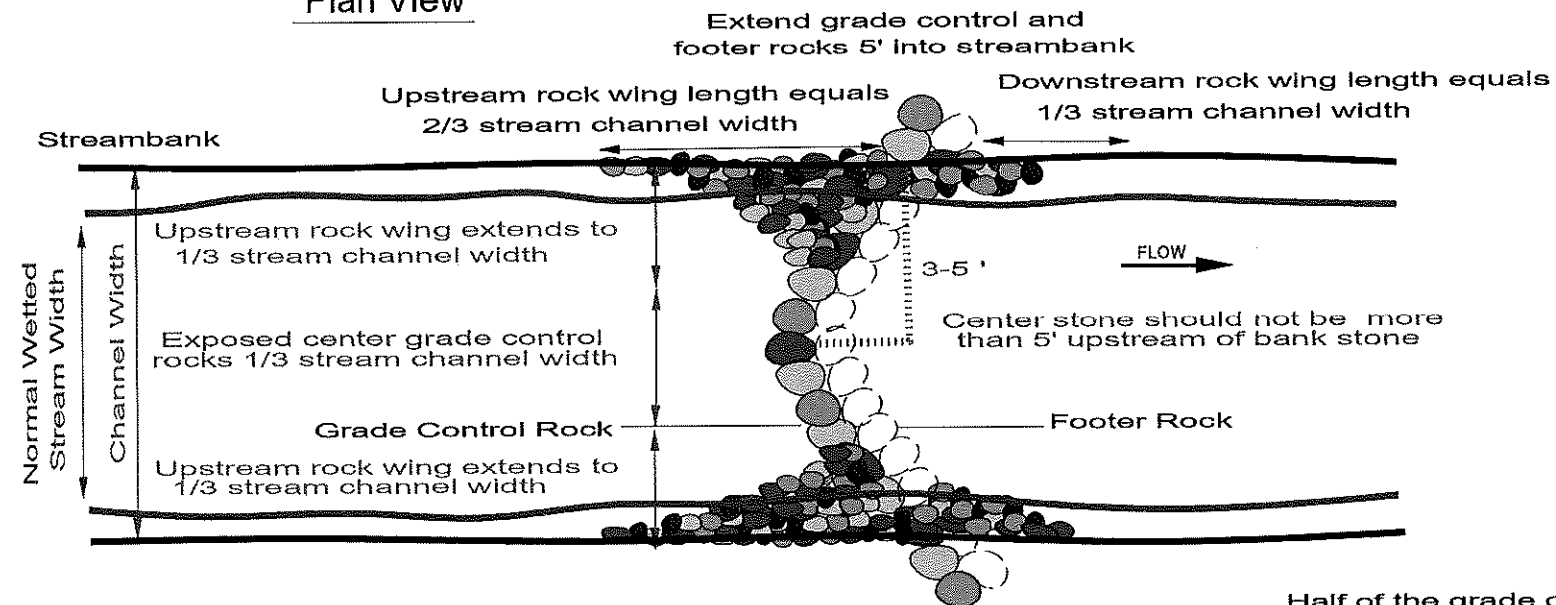
RANDOM BOULDERS SHALL BE INSTALLED BETWEEN STA. 0+50 - 1+00 AS SHOWN ON THE PLAN.

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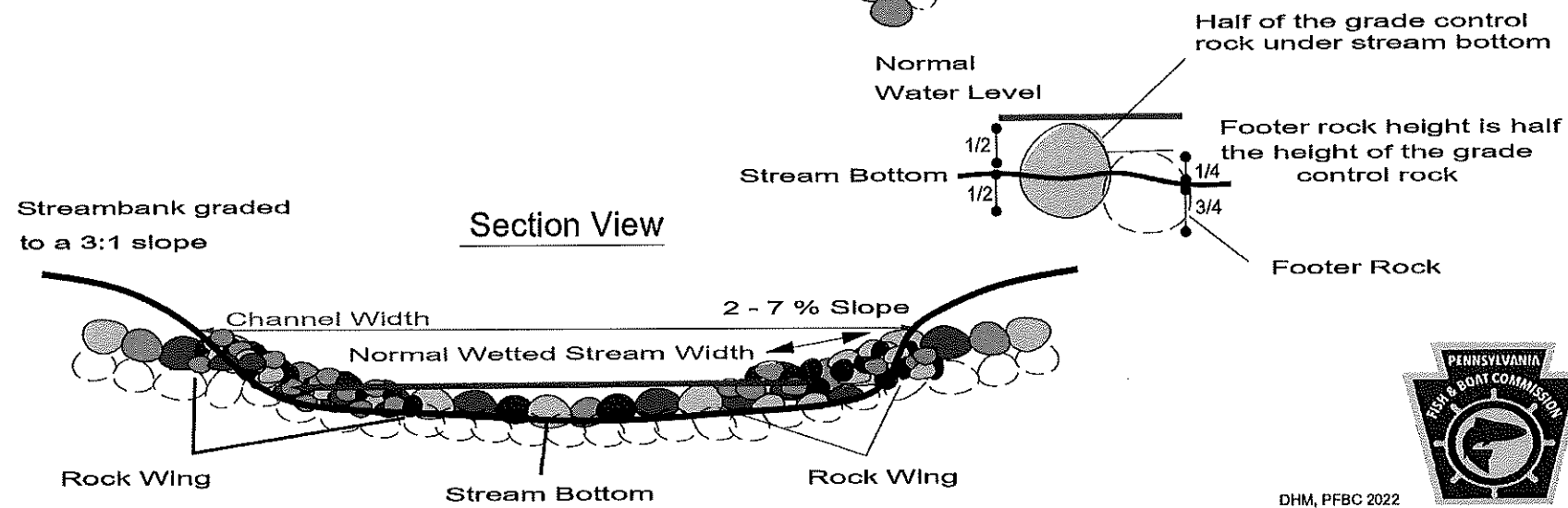
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SEVEN FALLS ANGLERS CLUB WOODBURY TOWNSHIP BLAIR COUNTY, PENNSYLVANIA		DESIGNED BY: TML
		DRAWN BY: TML
		SURVEYED BY: TML/NMW
REVISIONS:	CAD FILE: Seven Falls Anglers Club.dwg	PAGE NO.:
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-		
-		
-		

ROCK CROSS VANE

Plan View



Section View



CROSS VANE LOCATION AND ELEV.

STRUCTURE	STATION	ELEVATION (THROAT)
CV1	0+05	953.7'
CV2	3+43	953.0'
CV3	5+48	952.0'
CV4	5+87	950.9'

NOTE: ELEVATIONS ARE LISTED IN TRUE STATE PLANE ELEVATIONS.



DHM, PFBC 2022



CONSTRUCTION DETAIL

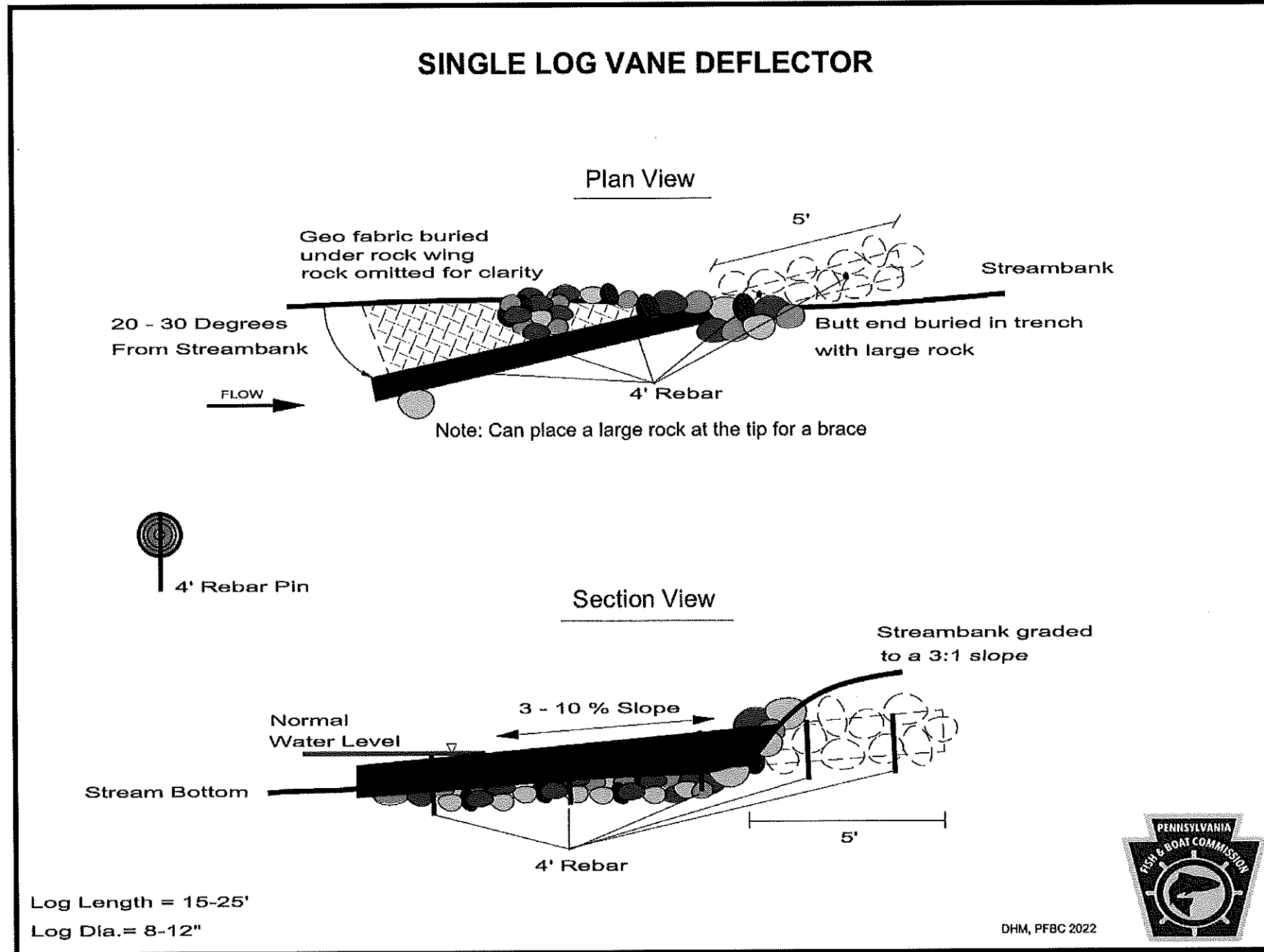
SEVEN FALLS ANGLERS CLUB
WOODBURY TOWNSHIP
BLAIR COUNTY, PENNSYLVANIA

DATE:
12/27/2023

DESIGNED BY:
TML
DRAWN BY:
TML
SURVEYED BY:
TML/NMW

REVISIONS:	CAD FILE:	SHEET:
-	Seven Falls Anglers Club.dwg	5 of 10
-	PAGE NO. -	

SINGLE LOG VANE DEFLECTOR



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CONSTRUCTION DETAIL

SEVEN FALLS ANGLERS CLUB
WOODBURY TOWNSHIP
BLAIR COUNTY, PENNSYLVANIA

DATE: 12/27/2023
DESIGNED BY: TML
DRAWN BY: TML
SURVEYED BY: TML/NMW



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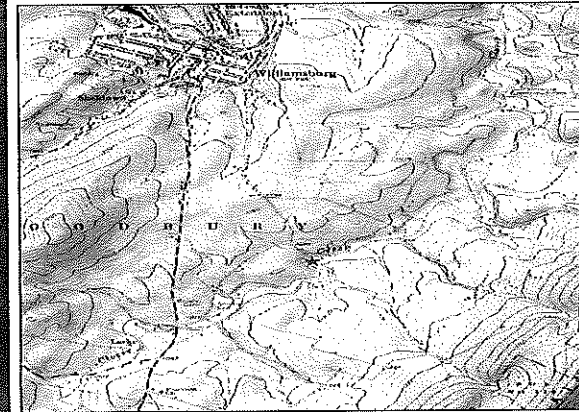
CAD FILE: Seven Falls Anglers Club.dwg	SHEET: 6 of 10
PAGE NO: -	

DHM, PFBC 2022



LEGEND

- 1300— EXISTING CONTOUR
- EXISTING THALWEG
- EXISTING STREAMBANK
- EXISTING TREELINE
- ... USDA SOILS
- LIMIT OF CONSTRUCTION
- TEMPORARY ACCESS RD.
- SS— COMPOST FILTER SOCK
-  STAGING AREA
-  COIR MATTING



USDA SOILS:
 Lp - LOBDELL SILT LOAM
 OxF - OPEQUON-HAGERSTOWN-ROCK
 OUTCROP COMPLEX (25-50% SLOPES)

GRAPHIC SCALE



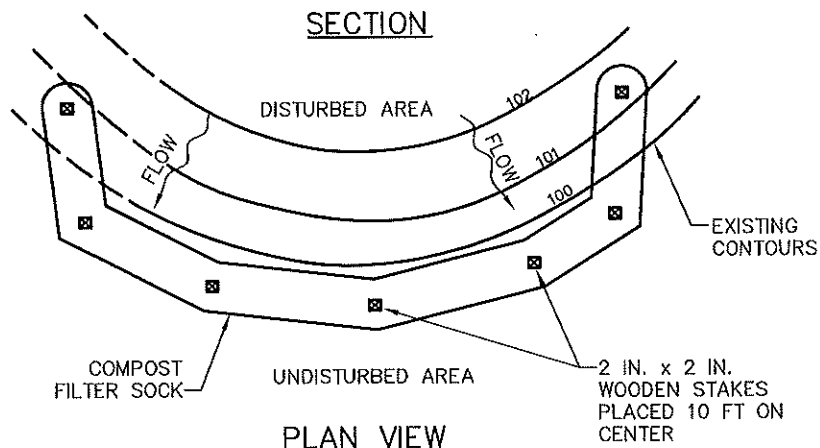
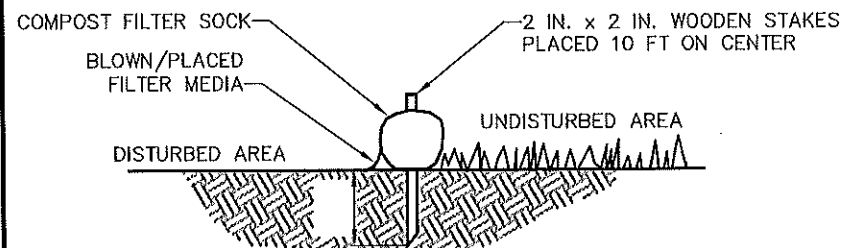
(IN FEET)
 1 inch = 60 ft.

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EROSION AND SEDIMENT CONTROL PLAN
 SEVEN FALLS ANGLERS CLUB
 WOODBURY TOWNSHIP
 BLAIR COUNTY, PENNSYLVANIA

DATE: 12/27/2023
 DESIGNED BY: TML
 DRAWN BY: TML
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	PAGE NO.:	7 of 1



NOTES:
 SOCK FABRIC SHALL MEET STANDARDS OF TABLE 4.1 OF THE PA DEP EROSION CONTROL MANUAL. COMPOST SHALL MEET THE STANDARDS OF TABLE 4.2 OF THE PA DEP EROSION CONTROL MANUAL.
 COMPOST FILTER SOCK SHALL BE PLACED AT EXISTING LEVEL GRADE. BOTH ENDS OF THE BARRIER SHALL BE EXTENDED AT LEAST 8 FEET UP SLOPE AT 45 DEGREES TO THE MAIN BARRIER ALIGNMENT. MAXIMUM SLOPE LENGTH ABOVE ANY BARRIER SHALL NOT EXCEED THAT SPECIFIED FOR THE SIZE OF THE SOCK AND THE SLOPE OF ITS TRIBUTARY AREA.
 TRAFFIC SHALL NOT BE PERMITTED TO CROSS COMPOST FILTER SOCKS.
 ACCUMULATED SEDIMENT SHALL BE REMOVED WHEN IT REACHES 1/2 THE ABOVE GROUND HEIGHT OF THE BARRIER AND DISPOSED IN THE MANNER DESCRIBED ELSEWHERE IN THE PLAN.
 COMPOST FILTER SOCKS SHALL BE INSPECTED WEEKLY AND AFTER EACH RUNOFF EVENT. DAMAGED SOCKS SHALL BE REPAIRED ACCORDING TO MANUFACTURER'S SPECIFICATIONS OR REPLACED WITHIN 24 HOURS OF INSPECTION.
 BIODEGRADABLE COMPOST FILTER SOCKS SHALL BE REPLACED AFTER 6 MONTHS; PHOTODEGRADABLE SOCKS AFTER 1 YEAR. POLYPROPYLENE SOCKS SHALL BE REPLACED ACCORDING TO MANUFACTURER'S RECOMMENDATIONS.
 UPON STABILIZATION OF THE AREA TRIBUTARY TO THE SOCK, STAKES SHALL BE REMOVED. THE SOCK MAY BE LEFT IN PLACE AND VEGETATED OR REMOVED. IN THE LATTER CASE, THE MESH SHALL BE CUT OPEN AND THE MULCH SPREAD AS A SOIL SUPPLEMENT.

**STANDARD CONSTRUCTION DETAIL #4-1
 COMPOST FILTER SOCK**

NOT TO SCALE

TWO-PLY SYSTEMS

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

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

FILTREXX & JMD

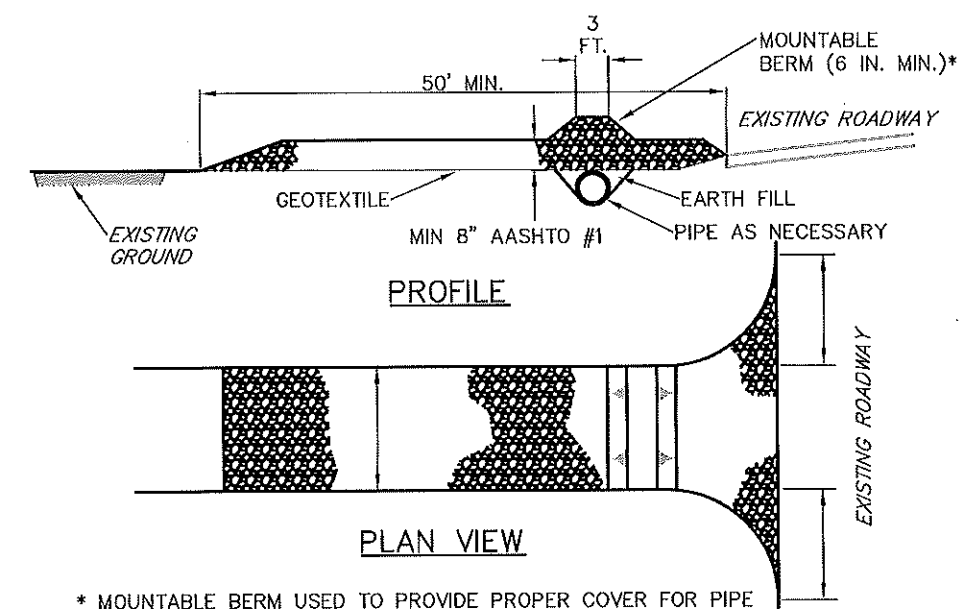
**TABLE 4.2
 COMPOST STANDARDS**

ORGANIC CONTENT MATTER	25% - 100% (DRY WEIGHT BASIS)
ORGANIC PORTION	FIBROUS AND ELONGATED
pH	5.5 - 8.5
MOISTURE CONTENT	30% - 60%
PARTICLE SIZE	30%-50% PASS THROUGH 3/8" SIEVE
SOLUBLE SALT CONCENTRATION	5.0 dS/m (mmhos/cm) Maximum

FILTREXX

**TABLE 4.1
 COMPOST SOCK FABRIC
 MINIMUM SPECIFICATIONS**

MATERIAL TYPE	3 mil HDPE	5 mil HDPE	5 mil HDPE	MULTI-FILAMENT POLYPROPYLENE (MFPP)	HEAVY DUTY MULTI-FILAMENT POLYPROPYLENE (HDMFPP)
MATERIAL CHARACTERISTICS	PHOTO-DEGRADEABLE	PHOTO-DEGRADEABLE	BIO-DEGRADEABLE	PHOTO-DEGRADEABLE	PHOTO-DEGRADEABLE
SOCK DIAMETERS	12" 18"	12" 18" 24" 32"	12" 18" 24" 32"	12" 18" 24" 32"	12" 18" 24" 32"
MESH OPENING	3/8"	3/8"	3/8"	3/8"	3/8"
TENSILE STRENGTH		26 psl	26 psl	44 psl	202 psl
ULTRAVIOLET STABILITY % ORIGINAL STRENGTH (ASTM G-155)	23% AT 1000 hr.	23% AT 1000 hr.		100% AT 1000 hr.	100% AT 1000 hr.
MINIMUM FUNCTIONAL LONGEVITY	6 MONTHS	9 MONTHS	6 MONTHS	1 YEAR	2 YEARS



* MOUNTABLE BERM USED TO PROVIDE PROPER COVER FOR PIPE

NOTES:

REMOVE TOPSOIL PRIOR TO INSTALLATION OF ROCK CONSTRUCTION ENTRANCE. EXTEND ROCK OVER FULL WIDTH OF ENTRANCE.

RUNOFF SHALL BE DIVERTED FROM ROADWAY TO A SUITABLE SEDIMENT REMOVAL BMP PRIOR TO ENTERING ROCK CONSTRUCTION ENTRANCE.

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

MAINTENANCE: ROCK CONSTRUCTION ENTRANCE THICKNESS SHALL BE CONSTANTLY MAINTAINED TO THE SPECIFIED DIMENSIONS BY ADDING ROCK. A STOCKPILE SHALL BE MAINTAINED ON SITE FOR THIS PURPOSE. ALL SEDIMENT DEPOSITED ON PAVED ROADWAYS SHALL BE REMOVED AND RETURNED TO THE CONSTRUCTION SITE IMMEDIATELY. IF EXCESSIVE AMOUNTS OF SEDIMENT ARE BEING DEPOSITED ON ROADWAY, EXTEND LENGTH OF ROCK CONSTRUCTION ENTRANCE BY 50 FOOT INCREMENTS UNTIL CONDITION IS ALLEVIATED OR INSTALL WASH RACK. WASHING THE ROADWAY OR SWEEPING THE DEPOSITS INTO ROADWAY DITCHES, SEWERS, CULVERTS, OR OTHER DRAINAGE COURSES IS NOT ACCEPTABLE.

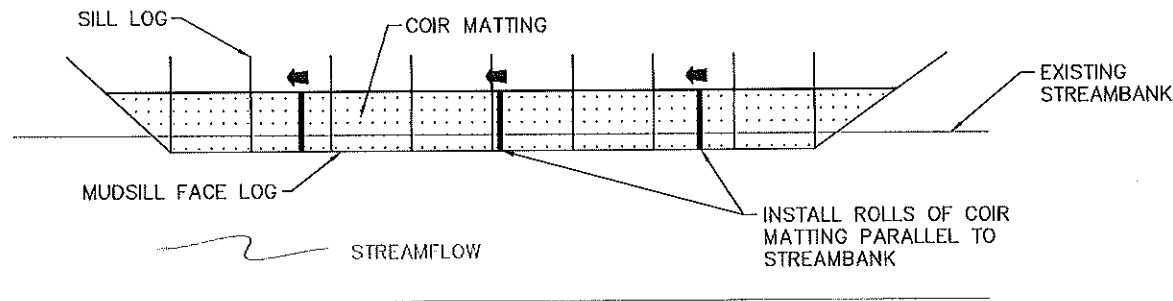
NOTE: ROCK CONSTRUCTION ENTRANCE WILL ONLY BE INSTALLED IF SITE CONDITIONS WARRANT

**STANDARD CONSTRUCTION DETAIL #3-1
 ROCK CONSTRUCTION ENTRANCE**

NOT TO SCALE

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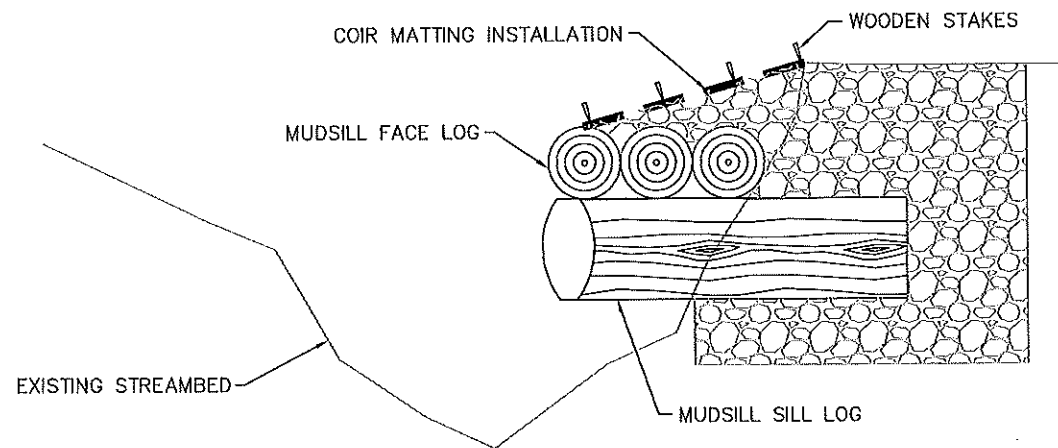
EROSION AND SEDIMENT CONTROL DETAILS		DATE: 12/27/2023
SEVEN FALLS ANGLERS CLUB WOODBURY TOWNSHIP BLAIR COUNTY, PENNSYLVANIA		DESIGNED BY: T.M.L.
		CHECKED BY: T.M.L.
		SURVEYED BY: T.M.L./N.M.W.
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PLAN VIEW

NOTES:

1. COIR MATTING SHOULD ONLY BE PLACED ON AREAS THAT ARE UNIFORMLY GRADED SO THE MAT COMES IN CONTACT WITH THE SOIL.
2. THE MATTING SHALL START AT THE FACE LOG OF THE MUDSILL, AND EXTEND AWAY FROM THE STREAM UNTIL REACHING TOP OF SLOPE (OR MINIMUM OF 5 FEET).
3. COIR MATTING SHALL BE INSTALLED IN A PARALLEL MANNER TO THE STREAMBANK, AND HAVE A MINIMUM OVERLAP OF 6-8 INCHES. THE OVERLAP SHOULD RUN WITH THE FLOW OF WATER (UPSTREAM ROLL SHOULD BE THE TOP OVERLAPPING LAYER).
4. MATS SHALL BE SECURED WITH STAPLES AND/OR WOODEN STAKES.



NOTES:

1. COIR MATTING INSTALLATION BEGINS AT THE FACE LOG AND EXTENDS AWAY FROM STREAM, UNTIL REACHING TOP OF SLOPE, AS DEPICTED ABOVE.

SECTION VIEW

**COIR MATTING
INSTALLATION DETAIL**

DESCRIPTION:

THE BioD-MAT 70 BLANKET IS WOVEN FROM MACHINE TWISTED BRISTLE COIR TWINES, THE BEST QUALITY COIR FIBER. THIS 100% BIODEGRADABLE, STRONG AND DURABLE BLANKET PROVIDE HIGHER EROSION RESISTANCE WHILE SUPPORTING GROWTH AND DEVELOPMENT OF VEGETATION. THESE SEMI-PERMANENT MATS HAVE FUNCTIONAL FIELD LONGEVITY OF 4-6 YEARS. IF THE VEGETATION FAILS TO ESTABLISH, THE OPEN WEAVE IN THE MAT ALLOWS SEEDING OVER THE MAT. BioD-MAT 70 BLANKETS ARE MANUFACTURED TO CONFORM TO THE FOLLOWING PHYSICAL PROPERTIES.

SPECIFICATIONS

PROPERTY	TEST METHOD	BioD-MAT 70
WEIGHT	ASTM D 3776	23 oz/SY (780 g/m ²)
WIDE WIDTH TENSILE STRENGTH WET MACHINE DIRECTION CROSS DIRECTION	ASTM D 4595	1488 lbs/ft (21.7 kN/m) 1032 lbs/ft (15.1 kN/m)
WIDE WIDTH TENSILE STRENGTH DRY MACHINE DIRECTION CROSS DIRECTION	ASTM D 4595	1740 lbs/ft (25.4 kN/m) 1176 lbs/ft (17.2 kN/m)
ELONGATION AT FAILURE WET MACHINE DIRECTION CROSS DIRECTION	ASTM D 4595	38% 25%
OPEN AREA	CALCULATED	48%
THICKNESS	ASTM D 1777	0.35 inch (9 mm)
RECOMMENDED SHEAR STRESS		4.54 lbs./sq.ft. (215N/sq.m.)
RECOMMENDED FLOW		12 fps (3.7m/s)
RECOMMEND SLOPE		1:1
MINIMUM TWINE COUNT PER FOOT MD x CD		27 x 18

BioD-MAT 70 IS AVAILABLE IN THE FOLLOWING ROLL SIZES:

- 3.28ft x 83ft (30SY) = 1m x 25m (25sq. m)
- 6.5ft x 166ft (120SY) = 2m x 50m (100sq. m)
- 9.8ft x 166ft (180SY) = 3m x 50m (150sq. m)
- 13.1ft x 83ft (120SY) = 4m x 25m (100sq. m)



**EROSION AND SEDIMENT
CONTROL DETAILS**
SEVEN FALLS ANGLERS CLUB
WOODBURY TOWNSHIP
BLAIR COUNTY, PENNSYLVANIA

DATE:
12/27/2023
DESIGNED BY:
TML
DRAWN BY:
TML
SUPERVISED BY:
TML/NMW

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STANDARD EROSION AND SEDIMENTATION CONTROL NOTES:

1. ALL EARTH DISTURBANCES, INCLUDING CLEARING AND GRUBBING AS WELL AS CUTS AND FILLS SHALL BE DONE IN ACCORDANCE WITH THE APPROVED E&S PLAN. A COPY OF THE APPROVED DRAWINGS MUST BE AVAILABLE AT THE PROJECT SITE AT ALL TIMES.
2. AT LEAST 7 DAYS PRIOR TO STARTING ANY EARTH DISTURBANCE ACTIVITIES, THE OWNER AND/OR OPERATOR SHALL INVITE ALL CONTRACTORS, THE LANDOWNER, 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, 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.
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 STRIPPING SHALL BE LIMITED TO THOSE AREAS DESCRIBED IN EACH STAGE OF THE CONSTRUCTION SEQUENCE. GENERAL SITE CLEARING, GRUBBING AND TOPSOIL STRIPPING MAY NOT COMMENCE IN ANY STAGE OR PHASE OF THE PROJECT UNTIL THE E&S BMP'S SPECIFIED BY THE BMP SEQUENCE FOR THAT STAGE OR PHASE HAVE BEEN INSTALLED AND ARE FUNCTIONING AS DESCRIBED IN THIS E&S PLAN.
7. AT NO TIME SHALL CONSTRUCTION VEHICLES BE ALLOWED TO ENTER AREAS OUTSIDE THE LIMIT OF DISTURBANCE BOUNDARIES SHOWN ON THE PLAN MAPS.
8. TOPSOIL REQUIRED FOR THE ESTABLISHMENT OF VEGETATION SHALL BE STOCKPILED IN THE AMOUNT NECESSARY TO COMPLETE THE FINISH GRADING OF ALL EXPOSED AREAS THAT ARE TO BE STABILIZED BY VEGETATION. EACH STOCKPILE SHALL BE PROTECTED IN THE MANNER SHOWN ON THE PLAN DRAWINGS. STOCKPILE HEIGHTS SHALL NOT EXCEED 35 FEET. STOCKPILE SLOPES SHALL BE 2H:1V OR FLATTER.
9. 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.
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 REGULATIONS.
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.
13. ALL PUMPING OF WATER FROM ANY WORK AREA SHALL BE DONE ACCORDING TO THE PROCEDURE DESCRIBED IN THIS PLAN, OVER UNDISTURBED VEGETATED AREAS.
14. UNTIL THE SITE IS STABILIZED, ALL EROSION AND SEDIMENT BMP'S SHALL BE MAINTAINED PROPERLY. MAINTENANCE SHALL INCLUDE INSPECTIONS OF ALL EROSION AND SEDIMENT BMP'S 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.
15. A LOG SHOWING DATES THAT E&S BMP'S 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 SAME TIME OF INSPECTION.
16. SEDIMENT TRACKED ONTO ANY PUBLIC ROADWAY OR SIDEWALK SHALL BE RETURNED TO THE CONSTRUCTION SITE BY THE END OF EACH WORK DAY AND DISPOSED IN THE MANNER DESCRIBED IN THIS PLAN. IN NO CASE SHALL THE SEDIMENT BE WASHED, SHOVELED, OR SWEEPED INTO ANY ROADSIDE DITCH, STORM SEWER, OR SURFACE WATER.
17. ALL SEDIMENT REMOVED FROM BMP'S SHALL BE DISPOSED OF IN THE MANNER DESCRIBED ON THE PLAN DRAWINGS.
18. AREAS TO BE VEGETATED SHALL HAVE A MINIMUM 4 INCHES OF TOPSOIL IN PLACE PRIOR TO SEEDING AND MULCHING. FILL OUTSLOPES SHALL HAVE A MINIMUM OF 2 INCHES OF TOPSOIL.
19. ALL FILLS SHALL BE COMPACTED AS REQUIRED TO REDUCE EROSION, SLIPPAGE, SETTLEMENT, SUBSIDENCE OR OTHER RELATED PROBLEMS.
20. ALL EARTHEN FILLS SHALL BE PLACED IN COMPACTED LAYERS NOT TO EXCEED 9 INCHES IN THICKNESS.
21. FILL MATERIAL FOR EMBANKMENTS SHALL BE FREE OF ROOTS, OR OTHER WOODY VEGETATION, ORGANIC MATERIAL, LARGE STONES, AND OTHER OBJECTIONABLE MATERIALS.
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. ALL GRADED AREAS SHALL BE PERMANENTLY STABILIZED IMMEDIATELY UPON REACHING FINISHED GRADE.
26. IMMEDIATELY AFTER EARTH DISTURBANCE ACTIVITIES CEASE IN ANY AREA OR SUBAREA OF THE PROJECT, THE OPERATOR SHALL STABILIZE ALL DISTURBED AREAS. DURING NON-GERMINATING MONTHS, MULCH OR PROTECTIVE BLANKETING SHALL BE APPLIED AS DESCRIBED IN THE PLAN. AREAS NOT AT FINISHED GRADE, WHICH WILL BE REACTIVATED WITHIN 1 YEAR, MAY BE STABILIZED IN ACCORDANCE WITH THE PERMANENT STABILIZATION SPECIFICATIONS.
27. PERMANENT STABILIZATION IS DEFINED AS A MINIMUM UNIFORM, PERENNIAL 70% VEGETATIVE COVER OR OTHER PERMANENT NON-VEGETATIVE COVER WITH A DENSITY SUFFICIENT TO RESIST ACCELERATED EROSION.
28. E&S BMP'S SHALL REMAIN FUNCTIONAL AS SUCH UNTIL ALL AREAS THAT TRIBUTARY TO THEM ARE PERMANENTLY STABILIZED OR UNTIL THEY ARE REPLACED BY ANOTHER BMP APPROVED BY THE LOCAL CONSERVATION DISTRICT OR THE DEPARTMENT.

GENERAL CONSERVATION NOTES AND SPECIFICATIONS

INTENT OF CONSERVATION PROGRAM:
THE INTENT OF THIS PROGRAM IS TO PREVENT ACCELERATED EROSION OF THE EXPOSED SITE SOILS DURING THE CONSTRUCTION AND PERMANENT LIFE PERIODS OF THE PROJECT. THE PROGRAM REQUIRES RETENTION OF SEDIMENTS ON THE CONSTRUCTION SITE TO MINIMIZE THE IMPACT OF EARTH DISTURBANCE ON EXISTING STREAMS AND ADJACENT PROPERTY OWNERS. THESE OBJECTIVES WILL BE ACHIEVED BY MINIMIZING THE EXPOSURE TIME OF POTENTIALLY ERODIBLE SOILS TO RUNOFF AND INSTALLATION OF THE TEMPORARY AND PERMANENT CONSERVATION PRACTICES IN PROPER SEQUENCE WITH CONSTRUCTION. THE INTENT OF THIS PROGRAM SHOULD BE UNDERSTOOD AND IMPLEMENTED THROUGHOUT THE ENTIRE DEVELOPMENT. THE VARIOUS CONSTRUCTION TRADES SHOULD BE APPRISED OF THIS PROGRAM AND DIRECTED TO PREVENT UNDUE DISTURBANCE OF PREPARED AND PROTECTED SURFACES.

SURFACE STABILIZATION CRITERIA:
ALL DENUDED SOIL SURFACES, INCLUDING SOIL STOCKPILES, ARE SUBJECT TO EROSION AND SHALL BE STABILIZED IMMEDIATELY EITHER AS TEMPORARILY OR PERMANENT COVER IN ACCORDANCE WITH SPECIFICATIONS BELOW. CRUSHED STONE ON PAVEMENT SUBGRADES IS CONSIDERED ADEQUATE PROTECTION. DISTURBED AREAS WHICH ARE NOT AT FINISHED GRADE AND WHICH WILL BE REDISTURBED WITHIN 1 YEAR MAY BE SEEDDED WITH A QUICK GROWING TEMPORARY SEEDING MIXTURE AND MULCHED AT A RATE OF 2-3 BALES/1000 SF OR 3 TONS/ACRE. DISTURBED AREAS WHICH ARE EITHER AT FINISHED GRADE OR WILL NOT BE REDISTURBED WITHIN 1 YEAR MUST BE SEEDDED WITH A PERMANENT SEED MIXTURE AND MULCHED AT A RATE OF 2-3 BALES/1000 SF OR 3 TONS/ACRE. DURING NON-GERMINATION PERIODS, MULCH SHALL BE APPLIED AT A RATE OF 2-3 BALES/1000 SF OR 3 TONS/ACRE. GERMINATION PERIODS SHALL BE FROM APRIL 1ST TO JUNE 15TH AND AUGUST 15TH TO OCTOBER 15TH. AT THE BEGINNING OF THE NEXT GERMINATION PERIOD, MULCHED AREAS SHALL BE LIMED, FERTILIZED AND SEEDDED, WITH EITHER A TEMPORARY OR PERMANENT SEED MIXTURE, AND REMULCHED AT A RATE OF 2-3 BALES/1000 SF OR 3 TONS/ACRE. ALL DISTURBED AREAS SHALL BE STABILIZED AS FOLLOWS:

A. TEMPORARY COVER ON DISTURBED AREAS:
DISTURBED AREAS WHICH ARE NOT AT FINISHED GRADE AND WHICH WILL BE REDISTURBED WITHIN ONE YEAR MAY BE SEEDDED AND MULCHED WITH A TEMPORARY COVER. PREPARATION OF THE SURFACE, FERTILIZATION AND SEEDING WITH EITHER ANNUAL OR WINTER RYE GRASS SHALL BE DONE IN COMPLIANCE WITH PENNSYLVANIA DEP AND THE COUNTY CONSERVATION DISTRICT (CCD) STANDARD FOR "TEMPORARY COVER FOR CRITICAL AREAS." GROUND LIMESTONE SHALL BE APPLIED AT THE RATE OF 190 LBS/1,000 SF. FERTILIZER FOR TEMPORARY STABILIZATION SHALL BE APPLIED AT A RATE OF 50-50-50 PER ACRE. THE FERTILIZER AND LIMESTONE SHALL BE WORKED INTO THE SOIL TO A DEPTH OF FOUR (4) INCHES PRIOR TO SEEDING. ANNUAL RYEGRASSES SHALL BE APPLIED AT A RATE OF 1.5 LB/1,000 SF AND WINTER RYE AT A RATE OF 3.5 LBS/1,000 SF AND MULCHED WITH HAY OR STRAW AT A RATE OF 2-3 BALES/1000 SF OR 3 TONS/ACRE AND NON ASPHALTIC EMULSION, IN ACCORDANCE WITH THE CCD STANDARD FOR "MULCHING."

B. PERMANENT COVER ON DISTURBED AREAS:
ALL DISTURBED AREAS MUST BE SEEDDED AND MULCHED WITH A PERMANENT COVER. AREAS SHOULD BE SEEDDED WITH THE ADJACENT PERMANENT SEED MIXTURE AS SHOWN. GROUND LIMESTONE SHALL BE APPLIED AT THE RATE OF 190 LBS/1000 SF OR 4 TO 6 TONS/ACRE. THE FERTILIZER AND LIMESTONE SHALL BE WORKED INTO THE SOIL TO A DEPTH OF FOUR (4) INCHES PRIOR TO SEEDING. FERTILIZER 10-20-20 FOR PERMANENT STABILIZATION MINIMUM IS 930 LBS/ACRE PER PENN STATE AGRONOMY GUIDE. PREPARATION OF THE SEEDBED, FERTILIZATION AND MAINTENANCE SHALL BE DONE IN ACCORDANCE WITH APPLICABLE CCD STANDARDS AND THE ADVICE OF THE PENNSYLVANIA STATE UNIVERSITY AGRICULTURAL EXTENSION SERVICE. NEW SEEDINGS ON FLAT AND MILD SLOPE AREAS SHALL BE MULCHED WITH STRAW AT 2 TO 3 BALES/1000 SF OR 3 TONS/ACRE. NEW SEEDINGS ON SLOPES AND WITHIN MODERATE DRAINAGE CHANNELS, SHALL BE SIMILARLY MULCHED WITH STRAW, AND RUNOFF DIVERTED FROM THE SEED BEDS UNTIL VEGETATION IS ESTABLISHED.

C. MAINTENANCE OF TEMPORARY SEDIMENTATION CONTROL STRUCTURES:
MAINTENANCE OF ALL TEMPORARY SEDIMENTATION CONTROL STRUCTURES SHALL BE IN ACCORDANCE WITH THESE PLANS. UNTIL THE SITE IS STABILIZED, ALL EROSION AND SEDIMENTATION CONTROLS MUST BE MAINTAINED PROPERLY. MAINTENANCE MUST INCLUDE INSPECTIONS OF ALL EROSION AND SEDIMENTATION CONTROLS AFTER EACH STORM EVENT AND ON A WEEKLY BASIS. ALL WEEKLY INSPECTION REPORTS TO BE KEPT ON SITE. ALL MAINTENANCE WORK MUST BE PERFORMED IMMEDIATELY.

SEQUENCE OF CONSTRUCTION:


- 1) ALL EARTH DISTURBANCE ACTIVITIES SHALL PROCEED IN ACCORDANCE WITH THE FOLLOWING SEQUENCE. EACH STAGE SHALL BE COMPLETED AND IMMEDIATELY STABILIZED BEFORE ANY OF THE FOLLOWING STAGES ARE INITIATED. CLEARING, GRUBBING, AND TOPSOIL STRIPPING SHALL BE LIMITED TO ONLY THOSE AREAS DESCRIBED IN EACH STAGE.
- 2) AT LEAST 3 DAYS PRIOR TO CONSTRUCTION, THE CONTRACTOR SHALL PLACE A PA 1 CALL TO HAVE ALL UTILITIES MARKED OUT PRIOR TO CONSTRUCTION.
- 3) AT THE END OF EACH WORK DAY, ALL DISTURBED AREAS MUST BE STABILIZED WITH SEEDING/MULCH AND EROSION CONTROL MULCH BLANKETS FOR SLOPES STEEPER THAN 3H:1V. AREAS AT FINAL GRADE MUST BE INSPECTED AT THE END OF EACH WORK DAY THROUGHOUT CONSTRUCTION. ANY EROSION MUST BE CORRECTED IMMEDIATELY.
- 4) INSTALL TEMPORARY SEDIMENT CONTROL MEASURES AT LOCATIONS SHOWN ON THE PLAN VIEW, AND AS NECESSARY FOR COMPLIANCE WITH CHAPTER 102.
- 5) STAGE EARTHWORK ACTIVITY TO MINIMIZE EROSION, COMPLETE UPSTREAM CONSTRUCTION AND EXCAVATION WORK PRIOR TO DOWNSTREAM WORK.
- 6) ALL WORK SHALL BE DONE DURING LOW FLOW CONDITIONS, AVOIDING PERIODS DURING OR IMMEDIATELY FOLLOWING HEAVY PRECIPITATION.
- 7) EQUIPMENT WORK WILL BE DONE FROM THE STREAMBANK, WHERE POSSIBLE.
- 8) INSTALL UPSTREAM CROSS VANE.
- 9) INSTALL RANDOM BOULDERS, MODIFIED MUDSILL, SINGLE LOG VANE, AND SECOND CROSS VANE IN ACCORDANCE WITH THE PLANS.
- 10) INSTALL SECOND MUDSILL (60'), THIRD MUDSILL (40') AND THE FINAL TWO CROSS VANES IN ACCORDANCE WITH THE PLANS.
- 11) THE ONLY WORK TO TAKE PLACE IN THE WET CONDITION IS THE PLACEMENT OF THE STREAM STRUCTURES.
- 12) PERMANENTLY SEED AND STABILIZE THE WORK AREA.

PERMANENT SEED MIXTURE

ALL AREAS DISTURBED DURING CONSTRUCTION AND AT FINAL GRADE SHALL BE SEEDDED WITHIN FOUR DAYS OF DISTURBANCE ACCORDING TO THE FOLLOWING SPECIFICATION AND RATE:

ERNMX-104 OR APPROVED EQUIVALENT (1-800-873-3321)
50% ANNUAL RYEGRASS (*Lolium multiflorum*)
50% PERENNIAL RYEGRASS (*Lolium perenne*)

AT A RATE OF 50 LBS / ACRE.



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(814) 407-4756 | www.bluacres.com

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