

DRAWINGS FOR EROSION AND SEDIMENT CONTROL PLAN

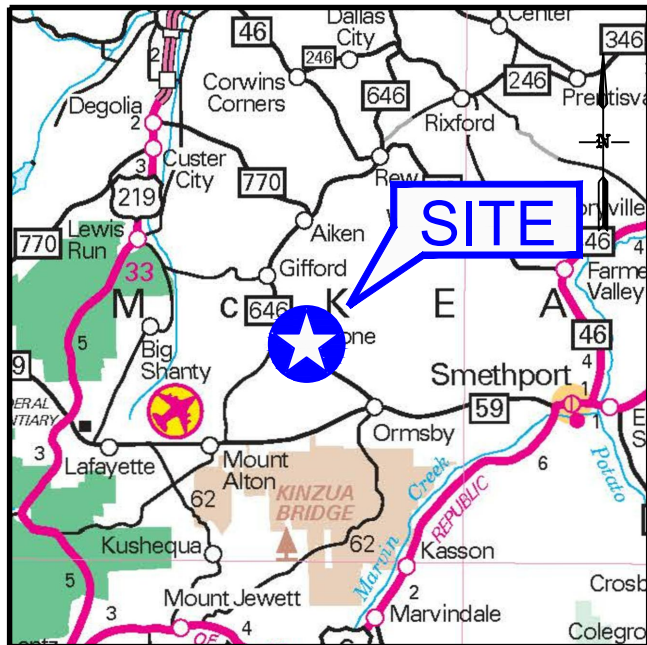
LOT 580-1 SITE

KEATING TOWNSHIP, MCKEAN COUNTY, PENNSYLVANIA

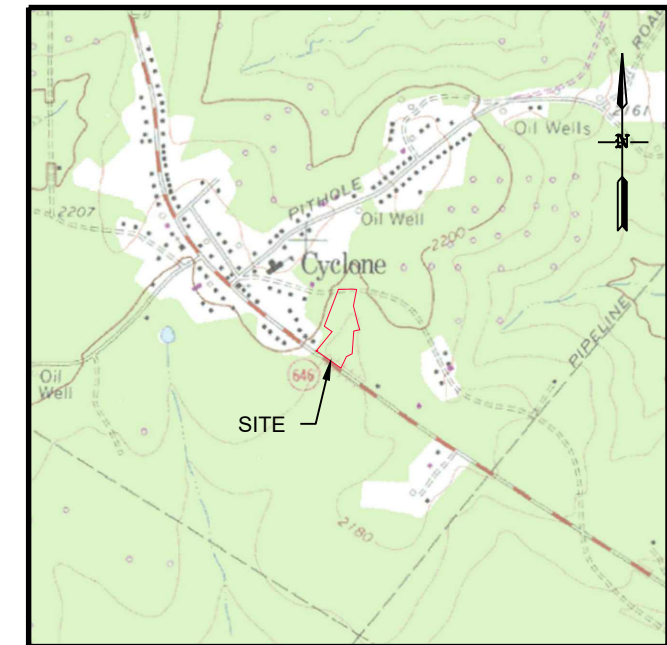
MARCH 2023

LIST OF SHEETS

SHEET NO.	DESCRIPTION
1	COVER SHEET
2	SITE PLAN
3	DETAILS (FIGURE 1 OF 4)
4	DETAILS (FIGURE 2 OF 4)
5	DETAILS (FIGURE 3 OF 4)
6	DETAILS (FIGURE 4 OF 4)



VICINITY MAP
SCALE: 1" = 5 Miles



LOCATION MAP
SCALE: 1" = 2000'

PREPARED FOR:

Catalyst Energy, Inc.
 CATALYST ENERGY, INC.
 1112 S. BRADDOCK AVE, SUIT 201
 PITTSBURGH, PA 15218
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scale	AS NOTED
date	03/20/2023
project no.	23010326

designed	RFH
checked	TMA
drawn	JAW

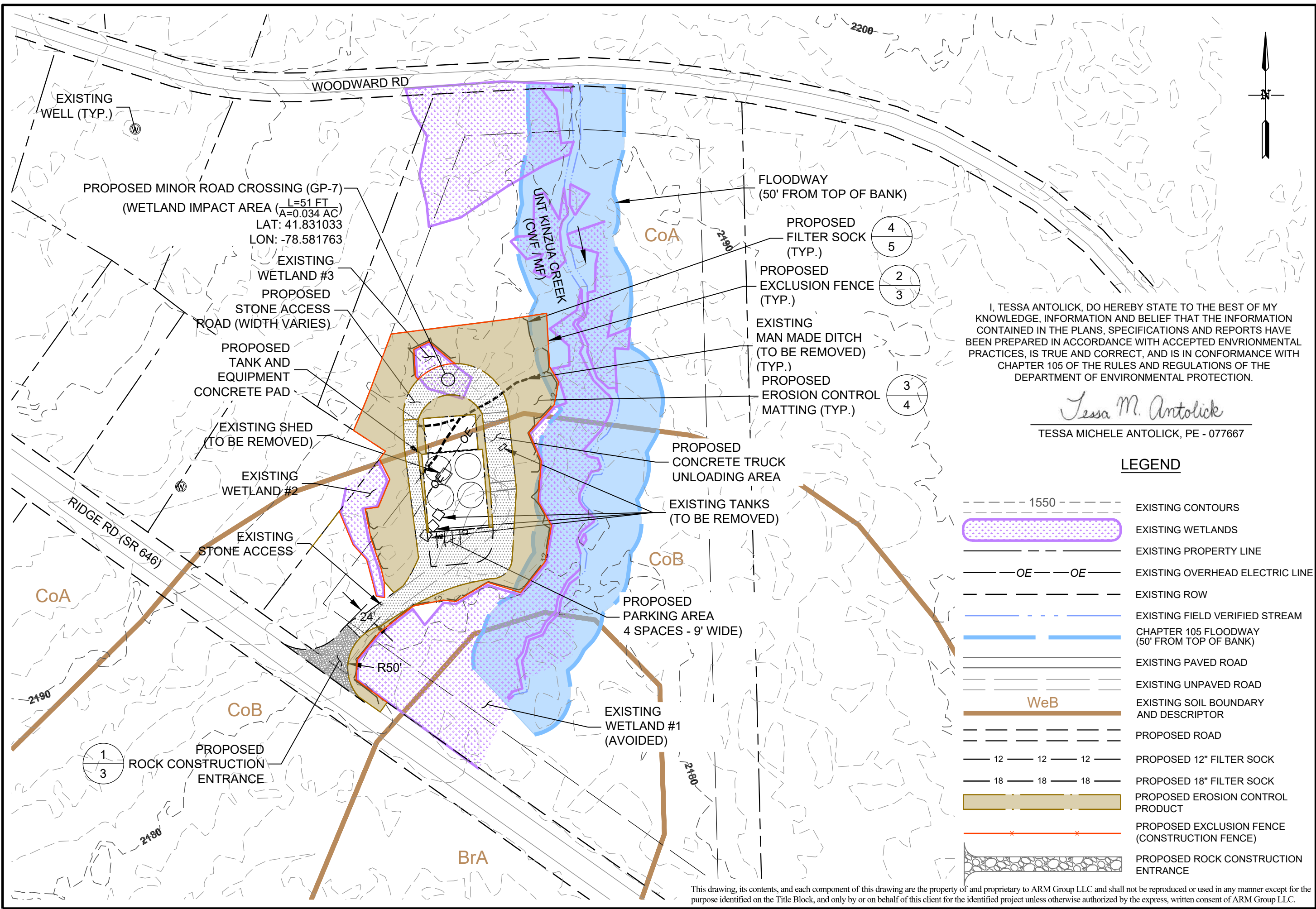
drawing title	COVER SHEET
project title	EROSION AND SEDIMENTATION CONTROL PLAN
	KEATING TOWNSHIP, MCKEAN COUNTY, PENNSYLVANIA
	LOT 580-1 SITE
	CATALYST ENERGY, INC.

Figure **1**

P:\Catalyst Energy\023010326 - Lot 580-1 E&S Plan\Drawings\23010326-FLC-001-COVER SHEET.dwg Plotted: March 20, 2023

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I, TESSA ANTOLICK, DO HEREBY STATE TO THE BEST OF MY KNOWLEDGE, INFORMATION AND BELIEF THAT THE INFORMATION CONTAINED IN THE PLANS, SPECIFICATIONS AND REPORTS HAVE BEEN PREPARED IN ACCORDANCE WITH ACCEPTED ENVIRONMENTAL PRACTICES, IS TRUE AND CORRECT, AND IS IN CONFORMANCE WITH CHAPTER 105 OF THE RULES AND REGULATIONS OF THE DEPARTMENT OF ENVIRONMENTAL PROTECTION.

Tessa M. Antolick
 TESSA MICHELE ANTOLICK, PE - 077667

LEGEND

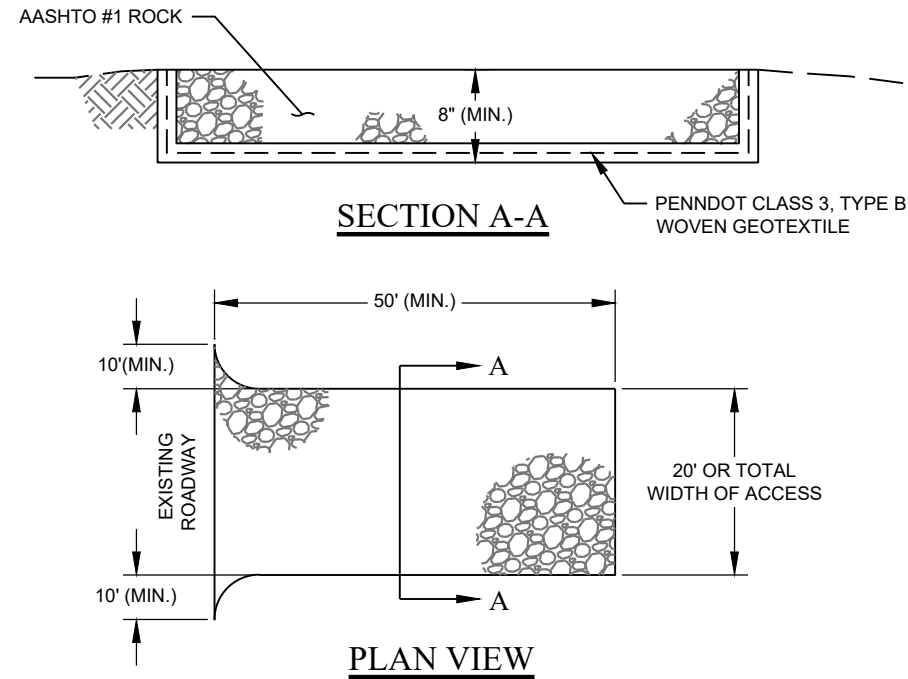
- 1550 --- EXISTING CONTOURS
- EXISTING WETLANDS
- EXISTING PROPERTY LINE
- EXISTING OVERHEAD ELECTRIC LINE
- EXISTING ROW
- EXISTING FIELD VERIFIED STREAM
- CHAPTER 105 FLOODWAY (50' FROM TOP OF BANK)
- EXISTING PAVED ROAD
- EXISTING UNPAVED ROAD
- EXISTING SOIL BOUNDARY AND DESCRIPTOR
- PROPOSED ROAD
- PROPOSED 12" FILTER SOCK
- PROPOSED 18" FILTER SOCK
- PROPOSED EROSION CONTROL PRODUCT
- PROPOSED EXCLUSION FENCE (CONSTRUCTION FENCE)
- PROPOSED ROCK CONSTRUCTION ENTRANCE

 ARM Group LLC Engineers and Scientists www.armgroup.net	scale: 1" = 100' date: 03/20/2023 project no.: 2310326
	designed by: RFH checked by: TMA drawn by: JAW
I, TESSA ANTOLICK, DO HEREBY STATE TO THE BEST OF MY KNOWLEDGE, INFORMATION AND BELIEF THAT THE INFORMATION CONTAINED IN THE PLANS, SPECIFICATIONS AND REPORTS HAVE BEEN PREPARED IN ACCORDANCE WITH ACCEPTED ENVIRONMENTAL PRACTICES, IS TRUE AND CORRECT, AND IS IN CONFORMANCE WITH CHAPTER 105 OF THE RULES AND REGULATIONS OF THE DEPARTMENT OF ENVIRONMENTAL PROTECTION.	
<p><i>Tessa M. Antolick</i> TESSA MICHELE ANTOLICK, PE - 077667</p>	
<p>SITE PLAN EROSION AND SEDIMENTATION CONTROL PLAN</p>	
KEATING TOWNSHIP, MCKEAN COUNTY, PENNSYLVANIA	
PROJECT title: LOT 580-1 SITE CATALYST ENERGY, INC.	
Figure 2	SCALE IN FEET

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1 **DETAIL**
ROCK CONSTRUCTION ENTRANCE
 NOT TO SCALE



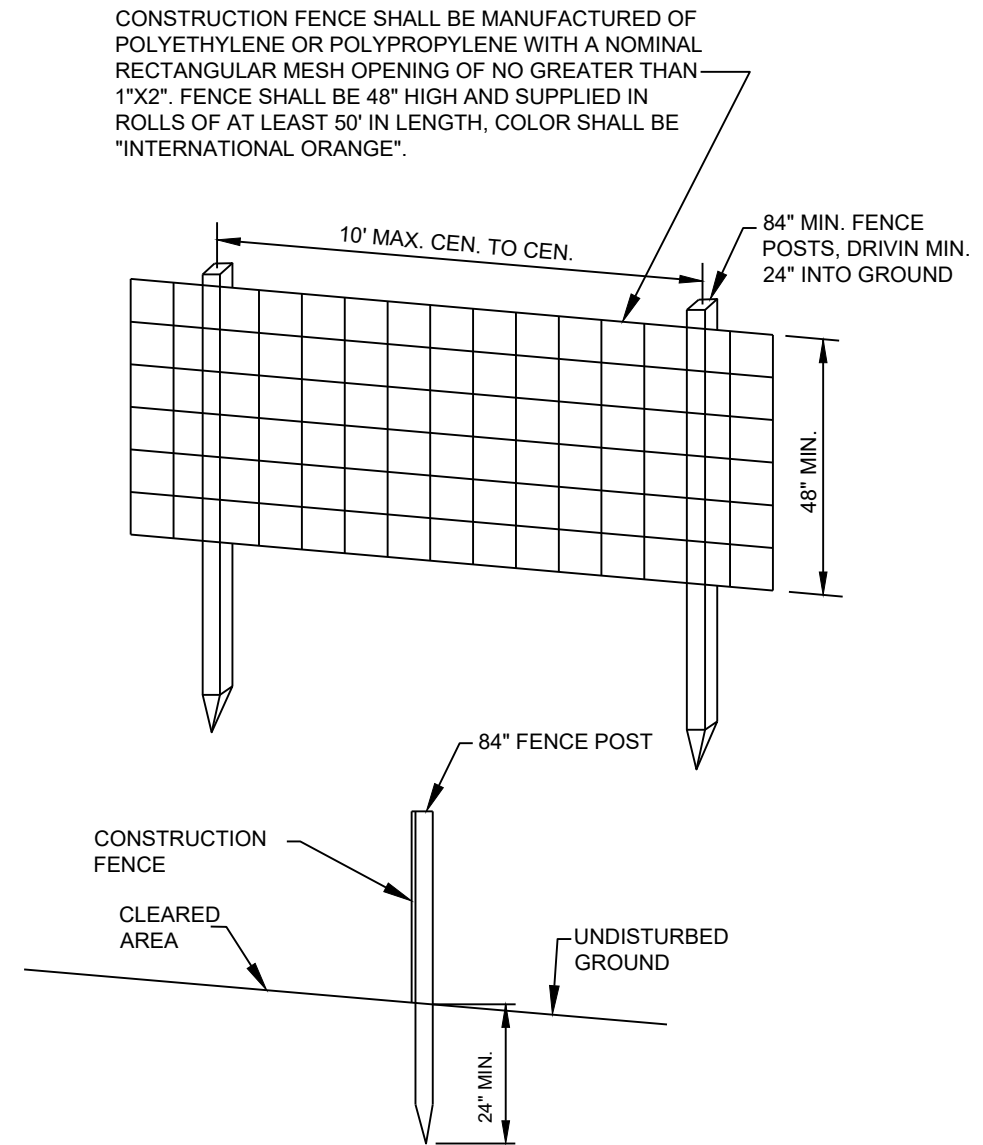
REMOVE TOPSOIL PRIOR TO INSTALLATION OF ROCK CONSTRUCTION ENTRANCE. EXTEND ROCK OVER FULL WIDTH OF ENTRANCE.

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

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 DEPOSITS 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 COURSES IS NOT ACCEPTABLE.

WASHING - WHEELS SHALL BE CLEANED TO REMOVE SEDIMENT PRIOR TO ENTRANCE ONTO PUBLIC RIGHTS-OF-WAY. WHEN WASHING IS REQUIRED, IT SHALL BE DONE ON AN AREA STABILIZED WITH STONE AND WHICH DRAINS INTO AN APPROVED SEDIMENT TRAPPING DEVICE.

2 **DETAIL**
EXCLUSION FENCE
 NOT TO SCALE



CONSTRUCTION FENCE SHALL BE MANUFACTURED OF POLYETHYLENE OR POLYPROPYLENE WITH A NOMINAL RECTANGULAR MESH OPENING OF NO GREATER THAN 1"x2". FENCE SHALL BE 48" HIGH AND SUPPLIED IN ROLLS OF AT LEAST 50' IN LENGTH, COLOR SHALL BE "INTERNATIONAL ORANGE".

10' MAX. CEN. TO CEN.
 84" MIN. FENCE POSTS, DRIVEN MIN. 24" INTO GROUND
 48" MIN.

84" FENCE POST
 CONSTRUCTION FENCE
 CLEARED AREA
 UNDISTURBED GROUND
 24" MIN.

THE CONTRACTOR SHALL INSTALL THE CONSTRUCTION FENCE IN LOCATIONS AS REQUIRED BY THE DRAWINGS AND SPECIFICATIONS.

FENCE DESIRABLE WOODED AREAS, INDIVIDUAL TREES, AND SHRUBS DESIGNATED FOR PROTECTION, BEFORE BEGINNING OTHER GENERAL PROJECT WORK. WHERE DIRECTED, FENCE OTHER AREAS TO BE PROTECTED. DO NOT STOCKPILE MATERIALS UNDER, OR WITHIN, PROTECTED VEGETATION AREAS. PROHIBIT CONSTRUCTION TRAFFIC WITHIN PROTECTED AREAS. PLACE THE FENCE AT THE DRIPLINE OF TREES OR PLANTS, BUT AVOID CAUSING ROOT DAMAGE WHEN DRIVING POSTS. REPLACE DAMAGED FENCE IN KIND WITHIN 24 HOURS OF DAMAGE, AS DIRECTED. REMOVE TEMPORARY PROTECTION, WHEN DIRECTED.

scale	AS NOTED
date	03/20/2023
project no.	23010326
designed	RFH
checked	TMA
drawn	JAW

drawing title	DETAILS (FIGURE 1 OF 4) EROSION AND SEDIMENTATION CONTROL PLAN
project title	LOT 580-1 SITE CATALYST ENERGY, INC.
	KEATING TOWNSHIP, MCKEAN COUNTY, PENNSYLVANIA

SPECIFICATION: 31 25 14.13 - HIGH PERFORMANCE-FLEXIBLE GROWTH MEDIUM

THIS SECTION SPECIFIES A HYDRAULICALLY-APPLIED, 100% BIODEGRADABLE, HIGH PERFORMANCE-FLEXIBLE GROWTH MEDIUM (HP-FGM) THAT IS MANUFACTURED IN THE UNITED STATES AND IS COMPOSED OF 100% RECYCLED THERMALLY REFINED (WITHIN A PRESSURE VESSEL) WOOD FIBERS, CRIMPED INTERLOCKING MAN-MADE BIODEGRADABLE FIBERS, MICRO-PORE GRANULES, NATURALLY DERIVED CROSSLINKED BIOPOLYMERS AND WATER ABSORBENTS. THE HP-FGM IS PHYTOSANITIZED, FREE FROM PLASTIC NETTING, REQUIRES NO CURING PERIOD AND UPON APPLICATION FORMS AN INTIMATE BOND WITH THE SOIL SURFACE TO CREATE A CONTINUOUS, POROUS, ABSORBENT AND FLEXIBLE EROSION RESISTANT BLANKET THAT ALLOWS FOR RAPID GERMINATION AND ACCELERATED PLANT GROWTH. ALL COMPONENTS OF THE FGM SHALL BE PRE-PACKAGED BY THE MANUFACTURER TO ASSURE BOTH MATERIAL PERFORMANCE AND COMPLIANCE WITH THE FOLLOWING VALUES. NO CHEMICAL ADDITIVES WITH THE EXCEPTION OF FERTILIZER, LIMING AND BIOSTIMULANT MATERIALS SHOULD BE ADDED TO THIS PRODUCT.

1. THERMALLY PROCESSED (WITHIN A PRESSURE VESSEL) WOOD FIBER - 80% ±3% - HEATED TO A TEMPERATURE GREATER THAN 380 DEGREES FAHRENHEIT (193 DEGREES CELSIUS) FOR 5 MINUTES AT A PRESSURE GREATER THAN 50 PSI (345 KPA)
 CROSSLINKED BIOPOLYMERS AND WATER ABSORBENTS - 10% ±1%
 CRIMPED, MAN-MADE BIODEGRADABLE INTERLOCKING FIBERS - 5% ±1%
 MICRO-PORE GRANULES - 5% ±1%

INSTALLATION

STRICTLY COMPLY WITH EQUIPMENT MANUFACTURER'S INSTALLATION INSTRUCTIONS AND RECOMMENDATIONS. USE APPROVED HYDRO-SPRAYING MACHINES WITH FAN-TYPE NOZZLE (50-DEGREE TIP). TO ACHIEVE OPTIMUM SOIL SURFACE COVERAGE, APPLY HP-FGM FROM OPPOSING DIRECTIONS TO SOIL SURFACE. ROUGH SURFACES (ROCKY TERRAIN, CAT TRACKS AND RIPPED SOILS) MAY REQUIRE HIGHER APPLICATION RATES TO ACHIEVE 100% COVER. SLOPE INTERRUPTION DEVICES OR WATER DIVERSION TECHNIQUES ARE RECOMMENDED WHEN SLOPE LENGTHS EXCEED 100 FEET (30 M). MAXIMUM SLOPE LENGTH IS FOR PRODUCT APPLICATIONS ON A 3H:1V SLOPE FOR APPLICATION ON STEEPER SLOPES, SLOPE INTERRUPTION LENGTHS MAY NEED TO BE DECREASED BASED ON ACTUAL SITE CONDITIONS. NOT RECOMMENDED FOR CHANNELS OR AREAS WITH CONCENTRATED WATER FLOW. NO CHEMICAL ADDITIVES WITH THE EXCEPTION OF FERTILIZER, LIMING AND BIOSTIMULANT MATERIALS SHOULD BE ADDED TO THIS PRODUCT. TO ENSURE PROPER APPLICATION RATES, MEASURE AND STAKE AREA. FOR MAXIMUM PERFORMANCE, APPLY HP-FGM IN A TWO-STEP PROCESS AS FOLLOWS:

1. STEP ONE: APPLY FERTILIZER WITH SPECIFIED PRESCRIPTIVE AGRONOMIC FORMULATIONS AND 50% OF SEED WITH A SMALL AMOUNT OF HP-FGM FOR VISUAL METERING.
2. STEP TWO: MIX BALANCE OF SEED AND APPLY HP-FGM AT A RATE OF 50 LB PER 125 GALLONS (23 KG/475 LITERS) OF WATER OVER FRESHLY SEEDED SURFACES. CONFIRM LOADING RATES WITH EQUIPMENT MANUFACTURER. DO NOT LEAVE SEEDED SURFACES UNPROTECTED, ESPECIALLY IF PRECIPITATION IS IMMINENT.

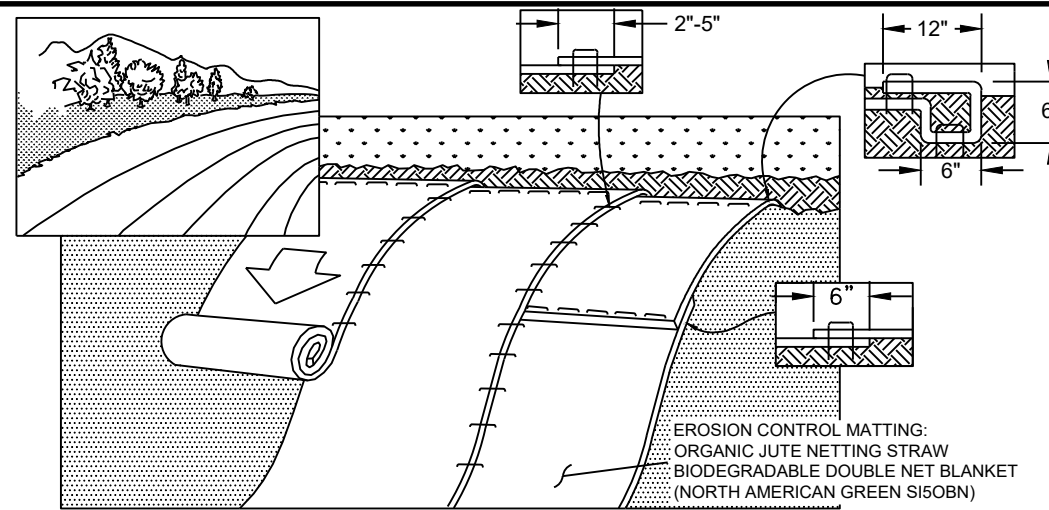


APPLICATION RATES

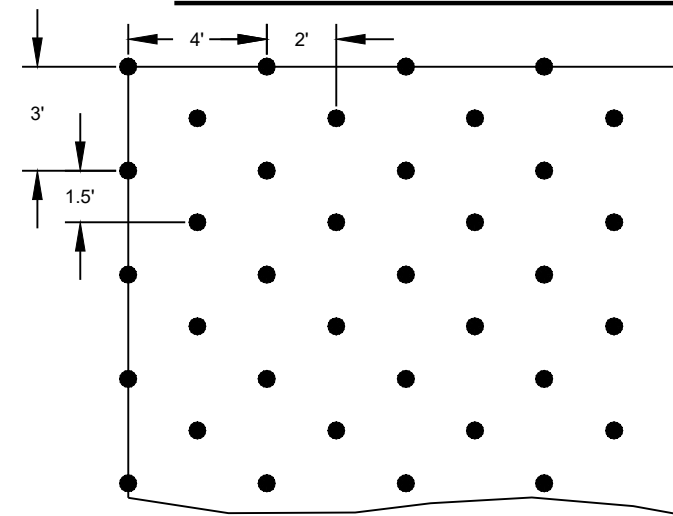
THESE APPLICATION RATES ARE FOR STANDARD CONDITIONS. DESIGNERS MAY WISH TO REDUCE RATES TO ENCOURAGE FASTER VEGETATION ESTABLISHMENT OR MAY NEED TO INCREASE APPLICATION RATES ON ROUGH SURFACES. CONSULT APPLICATION AND LOADING CHARTS TO DETERMINE NUMBER OF BAGS TO BE ADDED FOR DESIRED AREAS AND APPLICATION RATE.

SLOPE GRADIENT / CONDITION	ENGLISH	SI
≤ 4H TO 1V	2,500 LB/AC	2,800 KG/HA
> 4H TO 1V AND ≤ 3H TO 1V	3,000 LB/AC	3,400 KG/HA
≥ 3H TO 1V AND ≤ 2H TO 1V	3,500 LB/AC	3,900 KG/HA
> 2H TO 1V AND ≤ 1H TO 1V	4,000 LB/AC	4,500 KG/HA
> 1H TO 1V	4,500 LB/AC	5,100 KG/HA
BELOW ECB OR TRM	1,500 LB/AC	1,700 KG/HA
AS INFILL FOR TRM	3,500 LB/AC	3,900 KG/HA

3A **DETAIL**
FLEXTERRA HP-FGM EROSION CONTROL PRODUCT
 NOT TO SCALE



MATTING INSTALLATION DETAILS



STAPLE PATTERN FOR 16' WIDE ROLLS

NOTES:

1. MATTING SHALL BE PLACED ON SLOPES 3H:1V OR STEEPER.
2. MATTING SHALL BE PLACED ALONG STREAM EMBANKMENTS AND SLOPES.
3. PREPARE SOIL BEFORE INSTALLING INCLUDING ANY NECESSARY APPLICATION OF LIME, FERTILIZER, AND SEED.
4. BEGIN AT THE TOP OF THE SLOPE BY ANCHORING THE MATTING IN A 6" DEEP X 6" WIDE TRENCH WITH APPROXIMATELY 12" OF MATTING EXTENDED BEYOND THE UP-SLOPE PORTION OF THE TRENCH. ANCHOR THE MATTING WITH A ROW OF STAPLES/STAKES APPROXIMATELY 12" APART IN THE BOTTOM OF THE TRENCH. BACKFILL AND COMPACT THE TRENCH AFTER STAPLING. APPLY SEED TO COMPACTED SOIL AND FOLD REMAINING 12" PORTION OF MATTING BACK OVER SEED AND COMPACTED SOIL. SECURE MATTING OVER COMPACTED SOIL WITH A ROW OF STAPLES/STAKES SPACED APPROXIMATELY 12" APART ACROSS THE WIDTH OF THE MATTING.
5. ROLL MATTING DOWN THE SLOPE. MATTING MUST BE SECURELY FASTENED TO SOIL SURFACE BY PLACING STAPLES/STAKES IN APPROPRIATE LOCATIONS AS SHOWN IN THE ABOVE STAPLE PATTERN.
6. THE EDGES OF PARALLEL ROLLS MUST BE STAPLED WITH APPROXIMATELY 2" - 5" OVERLAP. CONSECUTIVE ROLLS SPLICED DOWN THE SLOPE MUST BE PLACED END OVER END (SHINGLE STYLE - WITH UPSLOPE MAT OVERLYING DOWNSLOPE MAT) WITH AN APPROXIMATE 6" OVERLAP. STAPLE THROUGH OVERLAPPED AREA, APPROXIMATELY 12" APART ACROSS ENTIRE WIDTH. NOTE: IN LOOSE SOIL CONDITIONS, THE USE OF STAPLE OR STAKE LENGTHS GREATER THAN 6" MAY BE NECESSARY TO PROPERLY SECURE THE MATTING.
7. AS AN ALTERNATIVE TO ECM, A FLEXIBLE GROWTH MEDIUM (FGM) SHALL BE USED UNLESS SPECIFIED BY THE OWNER OR ENGINEER.

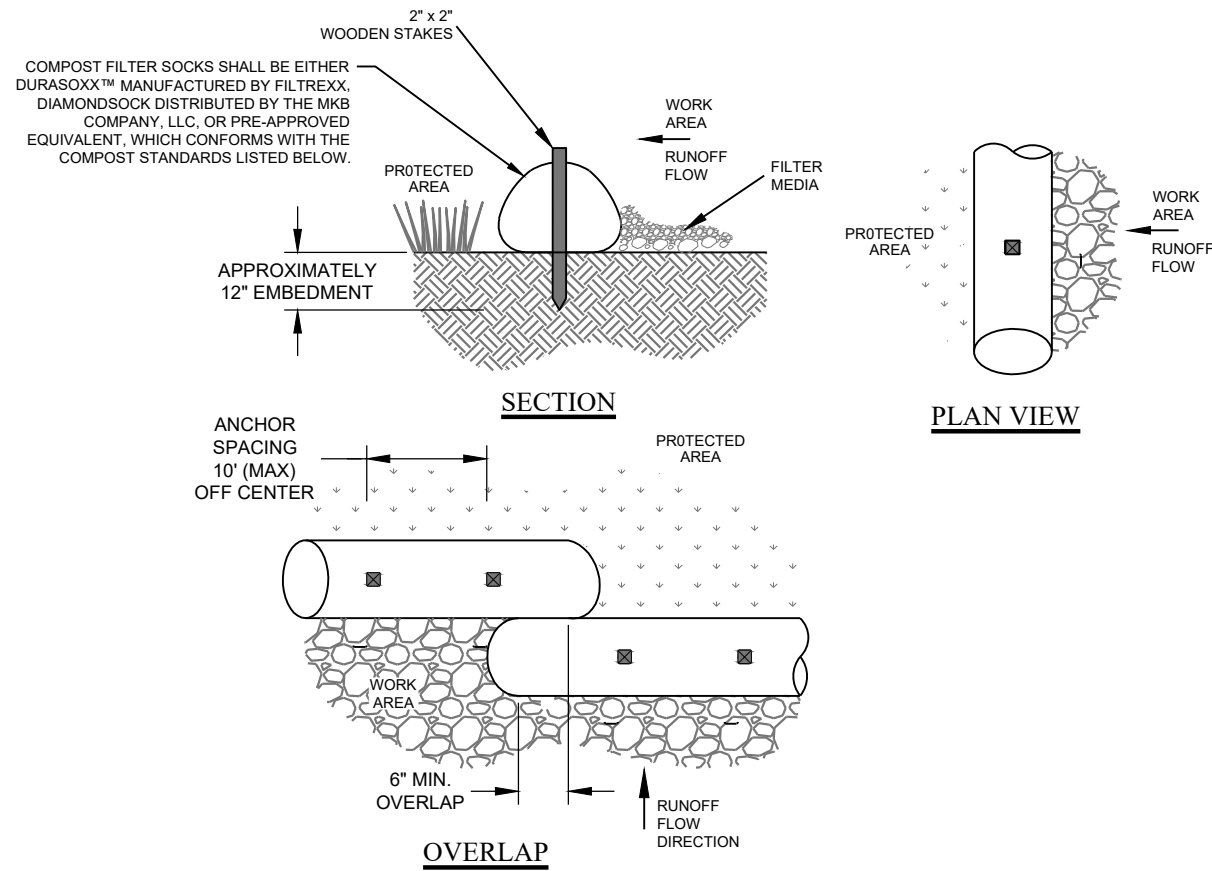
3B **DETAIL**
EROSION CONTROL MATTING
 NOT TO SCALE

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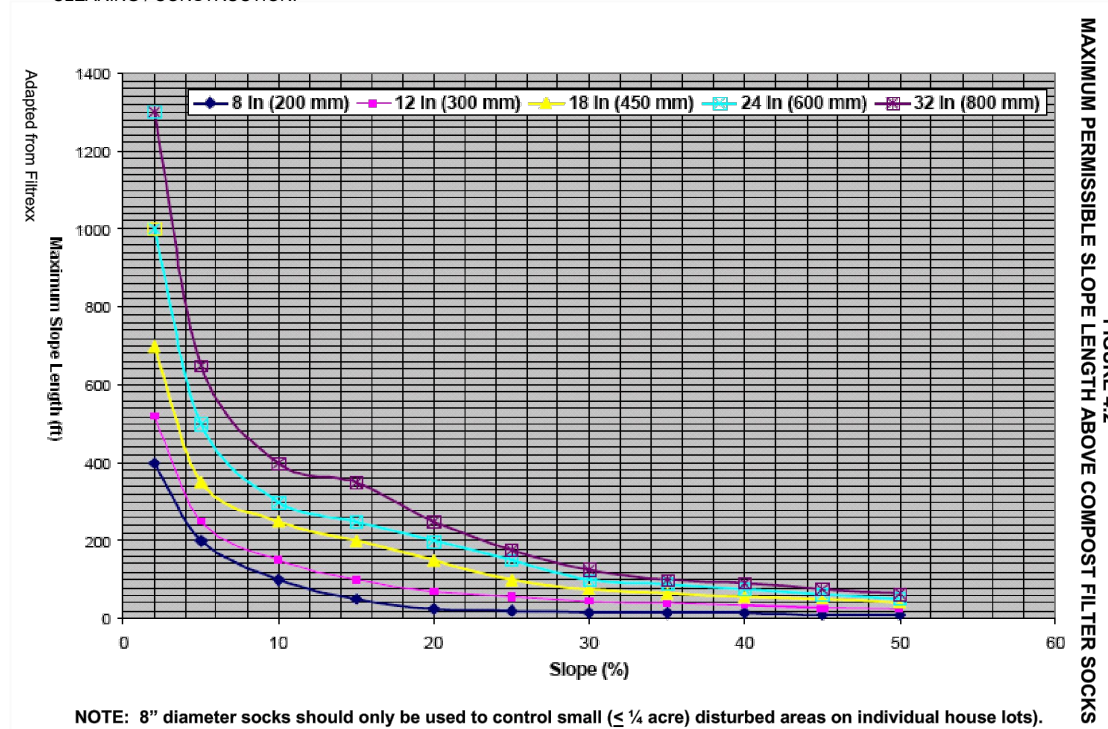
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date	03/20/2023
project no.	23010326
designed	RFH
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drawn	JAW
drawing title	DETAILS (FIGURE 2 OF 4) EROSION AND SEDIMENTATION CONTROL PLAN
project title	LOT 580-1 SITE CATALYST ENERGY, INC.
	KEATING TOWNSHIP, MCKEAN COUNTY, PENNSYLVANIA
Figure	4



COMPOST STANDARDS	
ORGANIC MATTER CONTENT	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

NOTES:

1. FILTER SOCKS SHALL BE PLACED PARALLEL TO CONTOURS WITH BOTH ENDS OF THE SOCK EXTENDED UPSLOPE AT A 45 DEGREE ANGLE TO THE REST OF THE SOCK FOR A MINIMUM OF 8 FEET TO PREVENT END-AROUNDS. STAKES SHOULD BE PLACED THROUGH THE CENTER OF THE SOCK AT INTERVALS RECOMMENDED BY THE MANUFACTURER. WHERE SOCKS ARE PLACED ON PAVED SURFACES, CONCRETE BLOCKS SHOULD BE USED IMMEDIATELY DOWNSLOPE OF THE SOCKS TO HELP HOLD THE SOCK IN PLACE.
2. PROPER SITE PREPARATION IS ESSENTIAL TO ENSURE COMPLETE CONTACT OF THE FILTER SOCK WITH THE SOIL.
3. FILTER SOCKS SHALL BE FILLED WITH WELL-DECOMPOSED ORGANIC MATERIAL (TYPICALLY COMPOSTED WOOD MULCH) IN ACCORDANCE WITH THE COMPOST STANDARDS LISTED ABOVE.
4. REMOVE ALL ROCKS, CLODS, VEGETATION, OR OTHER OBSTRUCTIONS SO THAT THE INSTALLED FILTER SOCK WILL HAVE DIRECT CONTACT WITH THE SOIL.
5. THE ENDS OF ADJACENT FILTER SOCK SHOULD BE TIGHTLY ABUTTED SO THAT NO OPENING EXISTS FOR WATER OR SEDIMENT TO PASS THROUGH. ALTERNATELY, FILTER SOCK MAY BE OVERLAPPED 6" MINIMUM TO PREVENT SEDIMENT PASSING THROUGH THE FIELD JOINT.
6. WOODEN STAKES SHOULD BE USED TO SECURE THE FILTER SOCK TO THE SOIL AS ILLUSTRATED. WOODEN STAKES SHOULD BE PLACED 6" FROM THE FILTER SOCK END.
7. CARE SHALL BE TAKEN DURING INSTALLATION SO AS TO AVOID DAMAGE OCCURRING TO THE FILTER SOCK AS A RESULT OF THE INSTALLATION PROCESS. SHOULD THE FILTER SOCK BE DAMAGED DURING INSTALLATION, A WOODEN STAKE SHALL BE PLACED ON EITHER SIDE OF THE DAMAGED AREA TERMINATING THE LOG SEGMENT.
8. FIELD MONITORING SHALL BE PERIODICALLY PERFORMED BY THE ENGINEER TO VERIFY THAT THE PLACEMENT DOES NOT DAMAGE THE FILTER SOCK. ANY FILTER SOCK DAMAGED DURING PLACEMENT SHALL BE REPLACED AS DIRECTED BY THE ENGINEER AT THE CONTRACTOR'S EXPENSE.
9. THE ANTICIPATED FUNCTIONAL LIFE OF A BIODEGRADABLE FILTER SOCK SHOULD BE 6 MONTHS; FOR PHOTODEGRADABLE SOCKS 1 YEAR. POLYPROPYLENE SOCKS SHALL BE REPLACED ACCORDING TO MANUFACTURER'S RECOMMENDATIONS. PROJECTS WITH DISTURBANCES ANTICIPATED TO LAST LONGER THAN THE FUNCTIONAL LIFE OF A SOCK SHOULD PLAN TO REPLACE THE SOCKS PERIODICALLY OR USE ANOTHER TYPE OF BMP.
10. TRAFFIC SHALL NOT BE PERMITTED TO CROSS FILTER SOCKS.
11. ACCUMULATED SEDIMENT SHALL BE REMOVED WHEN IT REACHES HALF THE ABOVE GROUND HEIGHT OF THE SOCK AND DISPOSED IN THE MANNER DESCRIBED ELSEWHERE IN THE PLAN.
12. 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.
13. 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.
14. WHERE THE LIMIT OF CLEARING / CONSTRUCTION AND FILTER SOCK ARE ADJACENT, PLACE THE SOCK ON THE EDGE OF LIMIT OF CLEARING / CONSTRUCTION.



4 **DETAIL FILTER SOCK**
NOT TO SCALE

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DETAILS (FIGURE 3 OF 4)
EROSION AND SEDIMENTATION CONTROL PLAN
KEATING TOWNSHIP,
MCKEAN COUNTY,
PENNSYLVANIA

