PRELIMINARY/FINAL

LAND DEVELOPMENT PLAN

FOR

J&C MARKET

1869 NORTH ATHERTON STREET

1) CURRENT OWNERS: JING MEI JIANG, YU MEI CHEN, XIN XING JIANG, AND YAN JIN JIANG
1869 NORTH ATHERTON STREET

STATE COLLEGE, PA 16803

DEVELOPER: TOMM 287 N

287 NORTHLAND CENTER STATE COLLEGE, PA 16803 917-977-0967

REAR - 30 FEET

2) UPI # 18-012-005-0000

3) SITE ZONED: C-1 GENERAL COMMERCIAL DISTRICT

4) SETBACK DISTANCES: FRONT - 70 FEET SIDE - 15 FEET

5) EXISTING LOT AREA: 29,990 SQUARE FEET

6) MAX. PERMITTED BUILDING COVERAGE: 30%

EXISTING BUILDING COVERAGE: 12.54% - 3,759 sq. ft. PROPOSED TOTAL BUILDING COVERAGE: 20.95% - 6,282 sq. ft.

7) MAX. PERMITTED IMPERVIOUS AREA: 75% OR 22,492 sq. ft. EXISTING IMPERVIOUS AREA: 72.8% - 21,818 sq. ft. PROPOSED TOTAL IMPERVIOUS AREA: 72.3% - 21,695 sq. ft

8) MINIMUM LOT WIDTH: 150'

9) MAXIMUM BUILDING HEIGHT: 50'

10) PROPOSED USE: RETAIL ESTABLISHMENT (MARKET)

11) REQUIRED PARKING: RETAIL SALES - 1 SPACE PER EACH 250 S.F. GROSS FLOOR AREA (PROPOSED G.F.A. = 6,282 S.F. / 250 = 26)

12) PROPOSED PARKING: 26 SPACES INCLUDES 2 H.C. ACCESSIBLE SPACES.

13) 1 LOADING BERTH IS REQUIRED FOR NEW CONSTRUCTION, ENLARGEMENT OR CHANGE OF USE (SECTION 175-47). ONE LOADING SPACE HAS BEEN PROVIDED FOR DELIVERIES.

14) THE PROPERTY BOUNDARY AND TOPOGRAPHY SHOWN ON THIS PLAN WAS TAKEN FROM A 2002 SURVEY OF LOHR'S GARAGE AS RECORDED IN PLAN BOOK VOLUME 67, PAGES 70-72. THE PROPERTY BOUNDARY IS BASED ON SAID PREVIOUS SURVEY, CURRENT DEEDS OF RECORD, AERIAL MAPPING, AND PLANS OF RECORD. ELEVATIONS LISTED ON THE PLAN ARE APPROXIMATE AND FOR LAND DEVELOPMENT PURPOSES ONLY AND SHOULD NOT BE USED FOR ANY OTHER PURPOSES AND ARE ASSUMED TO BE REFERENCED TO THE NORTH AMERICAN VERTICAL DATUM OF 1988 (NAVD88).

15) FIRM PANEL 42027C0617F INDICATES THIS PARCEL IS NOT IN A FLOOD HAZARD ZONE.

16) NATIONAL WETLANDS INVENTORY MAPPING INDICATES NO WETLANDS ARE LOCATED ON THIS PARCEL. A WETLANDS INVESTIGATION WAS NOT PERFORMED.

17) THIS PARCEL IS SERVICED BY PUBLIC WATER AND SEWER.

18) SIDE AND REAR SCREENING CONSISTING OF 2 CANOPY TREES, 4 UNDER STORY TREES AND 6 SHRUBS EXIST PER(SECTION 175-16-G). EXISTING LANDSCAPING AND STRIPS WILL BE MAINTAINED.

19) STORMWATER MANAGEMENT: THE EXISTING BIO-RETENTION FACILITY WAS DESIGNED ASSUMING FULL PAVED IMPERVIOUS CONDITIONS (GRAVEL WAS ACCOUNTED FOR AS PAVEMENT). THE EXISTING STORMWATER FACILITIES SHALL BE MAINTAINED FOR THIS PROJECT. THE EXISTING INLET WILL BE

20) EROSION CONTROL: THIS PROJECT WILL RESULT IN LESS THAN 5,000SF OF EARTH DISTURBANCE AND THEREFORE AN APPROVED PLAN AND REPORT ARE NOT REQUIRED BY THE CCCD OR DEP. ALL SITES ARE REQUIRED TO HAVE AN EROSION CONTROL PLAN. AN EROSION CONTROL PLAN HAS BEEN PROVIDED FOR CONSTRUCTION.

21) UTILITY LOCATIONS AS SHOWN ON THIS PLAN ARE APPROXIMATE AND IT IS THE RESPONSIBILITY OF THE CONTRACTOR, PER PA ACT 187 TO CONTACT THE UTILITY COMPANIES FOR MORE ACCURATE LOCATION PRIOR TO ANY EXCAVATION.

22) ALL DISTURBED AREAS NOT BE USED AS PAVEMENT OR BUILDING AREAS WILL BE SEEDED IMMEDIATELY AFTER THE CONSTRUCTION IS COMPLETED. TEMPORARY SOIL STOCKPILE SHALL BE SEEDED AND STABILIZED UNTIL SOIL IS REQUIRED FOR FINAL GRADING. EXISTING SOIL TYPE: HUB HUBLERSBURG SILT LOAM 394 - 894 SLOPES

23) THE BUILDING IS NOT REQUIRED TO HAVE A FIRE SPRINKLER SYSTEM. A FIRE HYDRANT EXISTS AT THE SOUTH EAST CORNER OF THE PROPERTY.

TO OBTAIN ADDITIONAL INFORMATION OR TO ARRANGE FOR FIELD LOCATION OF EXISTING UTILITIES BEFORE EXCAVATION, CALL THE PENNSYLVANIA ONE CALL SYSTEM AT 1-800-242-1776. THE LIST OF UTILITY COMPANIES SHOWN MAY OR MAY NOT HAVE UTILITY LINES IN THE AREA

CALL BEFORE YOU DIG!

PENNSYLVANIA ACT 187 REQUIRES
3 WORKING DAYS NOTICE
PRIOR TO BEGINNING CONSTRUCTION
OR DEMOLITION

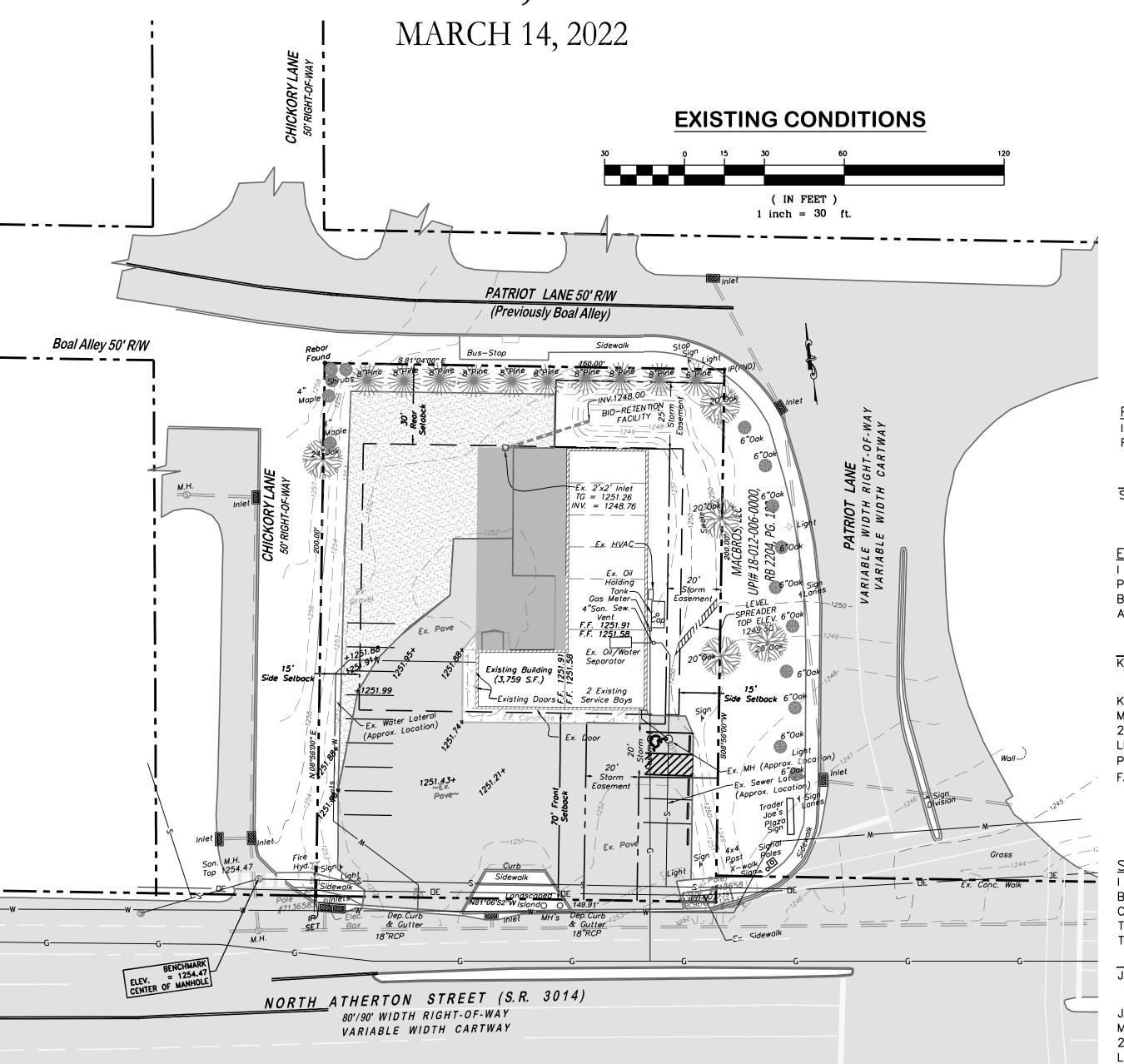
Pennsylvania One Call System, Inc.



Phone #: 811

CENTRE COUNTY, PENNSYLVANIA

PATTON TOWNSHIP



LIST OF UTILITIES

ALLEGHENY POWER CO. 2800 E. COLLEGE AVE. STATE COLLEGE, PA 16801

VERIZON PO BOX 1915 BELTSVILLE, MD 20704

COMCAST 1155 BENNER PIKE STATE COLLEGE, PA 16801

UNIVERSITY—AREA JOINT AUTHORITY 1576 SPRING VALLEY ROAD STATE COLLEGE, PA 16801 (814) 238—8370

COLUMBIA GAS
2550 CAROLEAN INDUSTRIAL DRIVE
STATE COLLEGE, PA 16801
(814) 238-6775

STATE COLLEGE BORO WATER AUTHORITY
1201 WEST BRANCH ROAD
STATE COLLEGE PA 16801

PATTON TOWNSHIP 100 PATTON PLAZA STATE COLLEGE, PA 16803 814-234-0271

FIRE CHIEF CERTIFICATION:

I HAVE REVIEWED AND HEREBY CERTIFY THAT THE LOCATION OF FIRE LINES AND HYDRANTS SHOWN ON THIS PLAN ARE ADEQUATE.

SIGNATURE DAT

ENGINEER'S CERTIFICATE:

I HEREBY CERTIFY THAT TO THE BEST OF MY KNOWLEDGE AND BELIEF, THIS PLAN IS TRUE AND CORRECT, AND PREPARED TO THE ACCURACY REQUIRED BY THE PATTON TOWNSHIP SUBDIVISION AND LAND DEVELOPMENT ORDINANCE AND THE PATTON TOWNSHIP ZONING ORDINANCE.

KENNETH R. ESTEP, P.E.

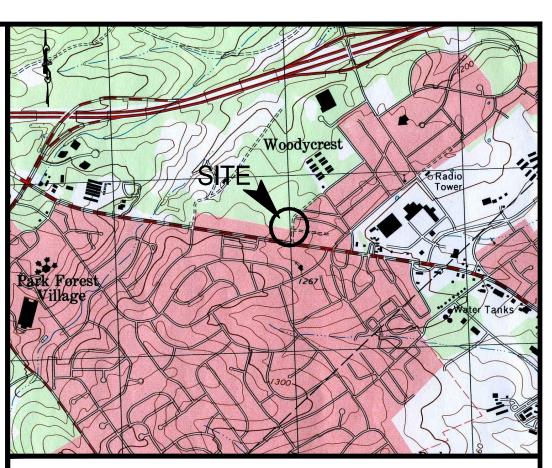
KENNETH R. ESTEP, P.E.
MID-PENN ENGINEERING CORPORATION
2049 WEST MARKET STREET
LEWISBURG, PA 17837
PHONE: (570) 524-2214
FAX: (570) 524-0109

SURVEYOR'S CERTIFICATE:

I HEREBY CERTIFY THAT TO THE BEST OF MY KNOWLEDGE AND BELIEF, THE BOUNDARY AND TOPOGRAPHICAL SURVEY DESCRIBED HEREON IS TRUE AND CORRECT, AND PREPARED TO THE ACCURACY REQUIRED BY THE PATTON TOWNSHIP SUBDIVISION AND LAND DEVELOPMENT ORDINANCE AND THE PATTON TOWNSHIP ZONING ORDINANCE.

JAMES R. WALSHAW, P.L.S.

JAMES R. WALSHAW, P.L.S.
MID-PENN ENGINEERING CORPORATION
2049 WEST MARKET STREET
LEWISBURG, PA 17837
PHONE: (570) 524-2214
FAX: (570) 524-0109



LOCATION MAP SCALE 1" = 2000'

COMMONWEALTH OF PENNSYLVANIA, COUNTY OF ______

ON THIS THE _____ DAY OF _____, 2022 BEFORE ME THE UNDERSIGNED, <u>JING MEI JIANG, YU MEI CHEN, XIN XING JIANG, AND YAN JIN JIANG</u>PERSONALLY APPEARED.

(SIGNATURE) (SIGNATURE)

ACCORDING TO LAW, DEPOSES AND SAID THAT THEY ARE THE OWNER(S) OF THE PROPERTY SHOWN ON THIS PLAN, AND THAT THEY ACKNOWLEDGING THE SAME TO BE THIER ACT AND PLAN AND DESIRE, THE SAME SHALL ERECORDED AS SUCH ACCORDING TO LAW.

WITNESS MY HAND SEAL THE DATE ABOVE WRITTEN.

Notary Public

My commission expires: ______

PATTON TOWNSHIP APPROVALS

PLANNING COMMISSION
CHAIRMAN_____DATE_____

SECRETARY_____DATE____

TOWNSHIP SUPERVISORS

CHAIRMAN_____DATE_____

SECRETARY_____DATE____

CENTRE COUNTY RECORDERS BLOCK

	INDEX	
SHT. NO.	DESCRIPTION	DWG. NO.
1	TITLE SHEET	T-1
2	SITE PLAN	SP-1
3	EROSION CONTROL PLAN	ESC-1
4	EROSION CONTROL PLAN	ESC-2

NO. DATE DESCRIPTION REVISIONS



MID-PENN ENGINEERING CORPORATION
CONSULTING ENGINEERS & SURVEYORS

2049 WEST MARKET STREET
LEWISBURG, PENNSYLVANIA 17837

MARCH 11, 2022

TELEPHONE: (570) 524-2214 • FAX: (570)524-0109 • EMAIL: staff@mid-pennengineering.com

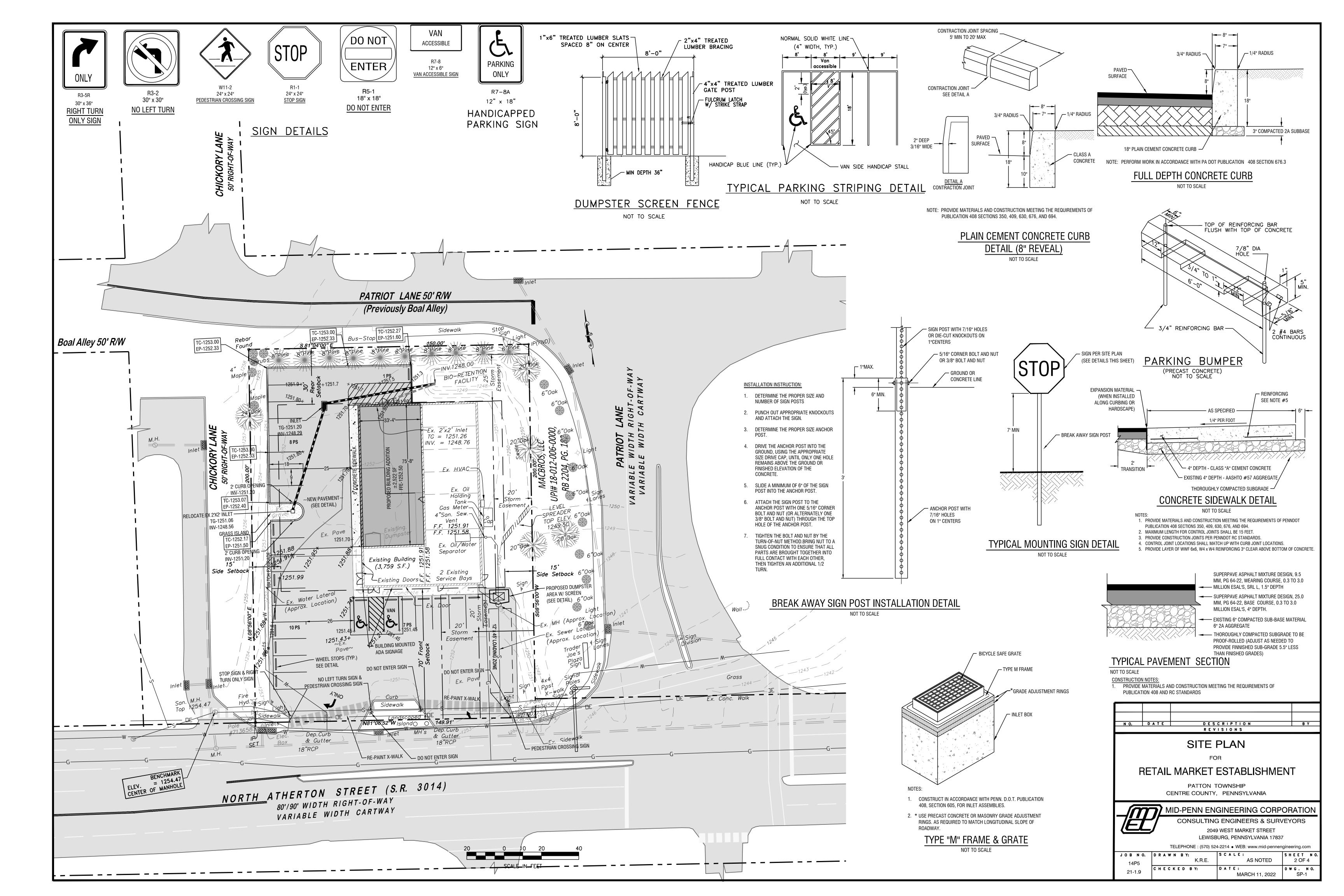
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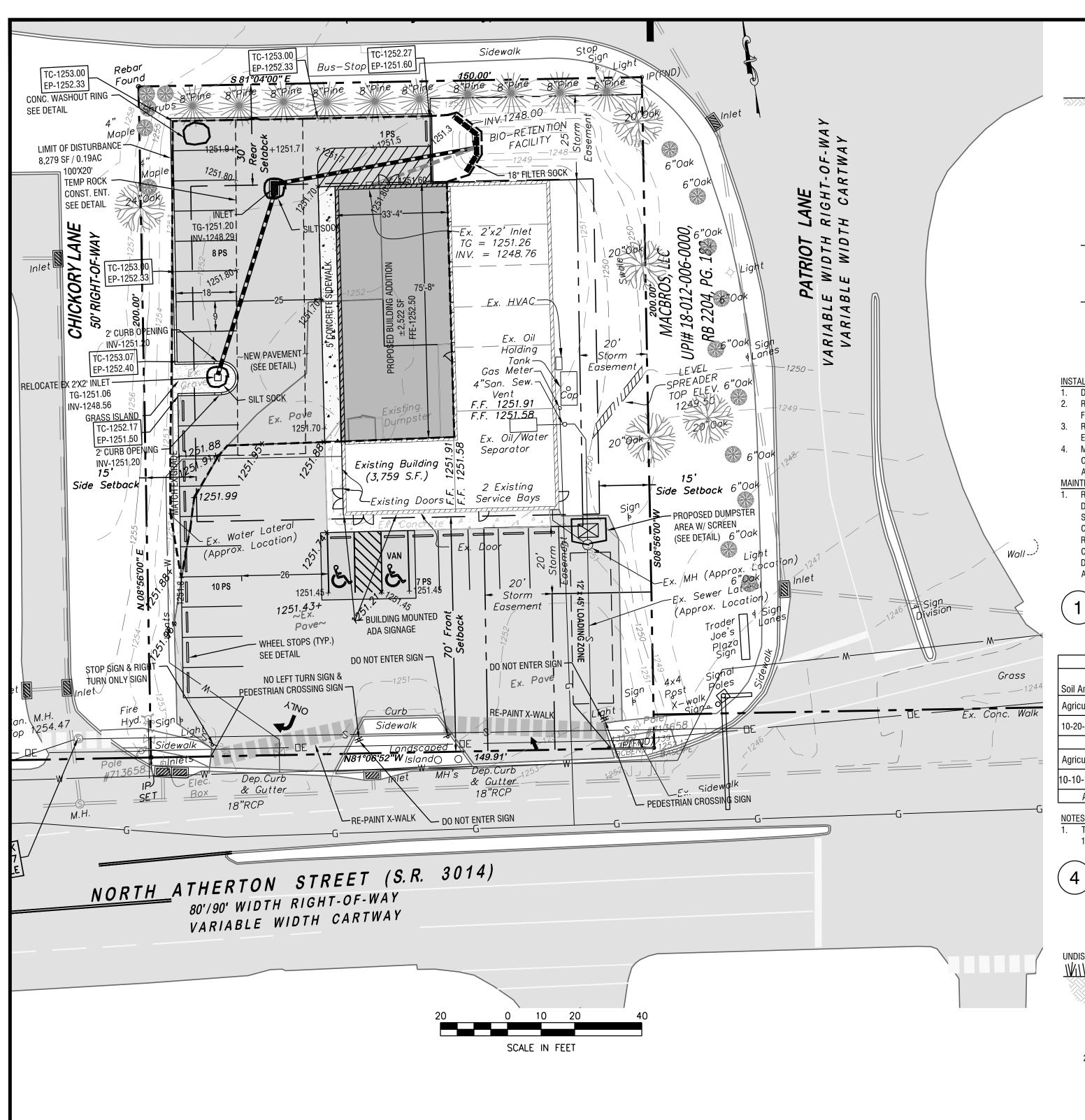
14P80

CHECKED BY:

DATE:

DWG.NO.





NOTES:

1. TOTAL LIMITS OF DISTURBANCE - 0.19 ACRES

RAKED AND MULCHED UNLESS OTHERWISE NOTED.

RECEIVING WATERS - UNT 18273 TO ELK CREEK

IMPACTED BY THE DEVELOPMENT.

Environmental Due Diligence is defined as:

Imported Fill Note:

substance.

definition of clean fill.

Clean Fill is Defined as:

CWF-MF (COLD WATER FISHES-MIGRATORY FISH)

3. THE OWNER OR THEIR REPRESENTATIVE SHALL COMPLETE A

WEEKLY SELF INSPECTION AND MAINTENANCE REPORT AS

5. RECIVING WATERS DESIGNATED USE - UNT OF SPRING CREEK

SIGNIFICANCE WITH THE PROPOSED PROJECT AREA THAT WILL BE

The owner will be responsible to perform environmental due diligence and determine that all fill imported to the site meets the Department of Environmental Protection's

Uncontaminated, non-water soluble, non-decomposable, inert, solid material. The term includes soil, rock, stone degraded material, used asphalt, and brick, block or

Investigative techniques, including, but not limited to, visual property inspections, electronic data base searches, review of property ownership, review of property use

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 regulated

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.)

history, sanbor maps, environmental questionnaires, transaction screens, analytical testing environmental assessments or audits. Analytical testing is not a required part of

IDENTIFIED IN THE SHORT TERM MAINTENANCE PROGRAM.

THERE ARE NO KNOWN GEOLOGICAL FEATURES OF ANY

2. ALL DISTURBED AREAS SHALL BE TOP SOILED, SEEDED, FERTILIZED,

GEOTEXTILE -- EXISTING - EARTH FILL MIN. 8" AASHTO #1-GROUND PIPE AS **NECESSARY PROFILE** ROADWAY PLAN VIEW

MOUNTABLE

BERM (6" MIN.)

EXISTING ROADWAY

- DETAIL BASED ON STANDARD CONSTRUCTION DETAIL #3-1 OF THE PADEP E&S CONTROL MANUAL. REMOVE TOPSOIL PRIOR TO INSTALLATION OF ROCK CONSTRUCTION ENTRANCE, EXTEND ROCK OVER
- **FULL WIDTH OF ENTRANCE** 3. 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.

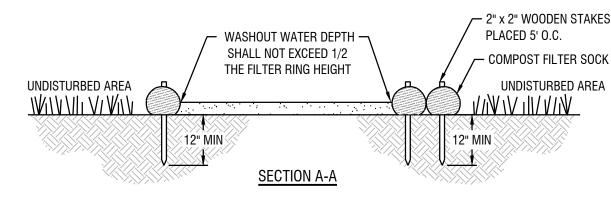
ROCK CONSTRUCTION ENTRANCE THICKNESS SHALL BE CONSTANTLY MAINTAINED TO THE SPECIFIED DIMENSIONS BY ADDING ROCK. A STOCKPILE SHALL BE MAINTAINED ON SITE FOR THIS PURPOSE. ALL SEDIMENT DEPOSITED ON PAVED ROADWAYS SHALL BE REMOVED AND RETURNED TO THE CONSTRUCTION SITE IMMEDIATELY. IF EXCESSIVE AMOUNTS OF 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

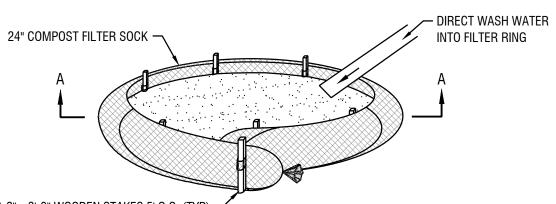
ROCK CONSTRUCTION ENTRANCE- ABACT

_	SOIL AMENDM	IENT APPLICATIO	N RATE EQUIVALE	NTS	
	Permanent Seeding Application Rate				
Soil Amendment	Per Acre	Per 1,000 sf	Per 1,000 sy	Notes	
Agricultural lime	6 tons	240 lb.	2,480 lb.	Or as per soil test, may not be required in	
10-20-20 fertilizer	1,000 lb	25 lb.	210 lb.	agricultural fields	
	Temp	orary Seeding App	olication Rate		
Agricultural lime	1 tons	40 lb.	410 lb.	Typically not required for temporary topsoil	
10-10-10 fertilizer	500 lb	12.5 lb.	100 lb.	stockpiles	
Adapted from	n Penn State, "Erd	osion Control & Co	nservation Plantin	gs on Noncropland"	

1. THE SOIL AMENDMENT APPLICATION RATE EQUIVALENTS TABLE IS ADAPTED FROM TABLE 11.2 OF THE PADEP E&S CONTROL MANUAL.

SOIL AMENDMENT APPLICATION RATE





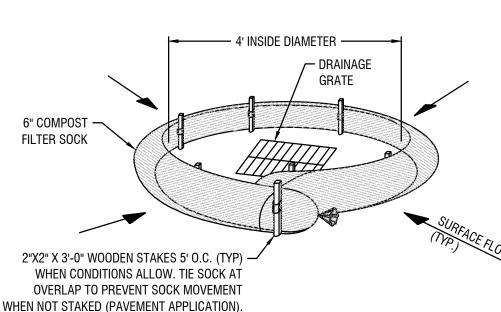
2"x2" x 3'-0" WOODEN STAKES 5' O.C. (T) TIE SOCK WITH ZIP TIE AND PROVIDE A MINIMUM OF 6" OF SOCK OVERLAP

NSTALLATION NOTES

- DETAIL ADAPTED FROM FIGURE 3.18 OF THE PADEP E&S CONTROL MANUAL 2. A SUITABLE IMPERVIOUS GEOMEMBRANE SHALL E PLACED AT THE LOCATION OF THE WASHOUT PRIOR TO
- INSTALLING THE SOCKS INSTALL ON GRADE < 2.0% FOR OPTIMUM PERFORMANCE.
- 4. AN 18" Ø SOCK MAY BE STACKED ON TOP OF DOUBLE SOCKS IN PYRAMIDAL CONFIGURATION FOR ADDED
- HEIGHT IF NEEDED. MAINTENANCE NOTES:
- ALL CONCRETE WASHOUT FACILITIES SHOULD BE INSPECTED DAILY. DAMAGED OR LEAKING WASHOUTS SHOULD BE DEACTIVATED AND REPAIRED OR REPLACED IMMEDIATELY.
- 2. ACCUMULATED MATERIALS SHOULD BE REMOVED WHEN THEY REACH 50% OF RING HEIGHT.

CONCRETE WASHOUT RING

TABLE 4.2 - COMPOST STANDARDS 80% - 100 % (DRY WEIGHT BAS ORGANIC MATTER CONTENT ORGANIC PORTION FIBROUS AND ELONGATED 5.5 - 8.0 35% - 55% MOISTURE CONTENT PARTICLE SIZE 98% PAS THROUGHT 1" SCRE 5.0 dS/M (mmhos/CM) MAXIMUI SOLUBLE SALT CONCENTRATION



INSTALLATION NOTES:

. MAXIMUM DRAINAGE AREA = 1 ACRE.

2. INLET PROTECTION SHALL NOT BE REQUIRED FOR INLET TRIBUTARY TO SEDIMENT BASIN OR

TRAP. NOT APPLICABLE TO INSTALLATIONS NOT LOCATED AT A LOW POINT 3. TOP OF SOCK SHALL BE AT LEAST 6 INCHES BELOW ADJACENT ROADS IF PONDED WATER WOULD POSE A SAFETY HAZARD TO TRAFFIC.

2. COMPOST SHALL MEET THE STANDARDS IN TABLE 4.2 OF THE PA DEP EROSION CONTROL

MAINTENANCE NOTES: 1. SEDIMENT SHALL BE REMOVED WHEN IT REACHES HALF THE HEIGHT OF THE SOCK. DAMAGED OR CLOGGED INSTALLATIONS SHALL BE REPAIRED OR REPLACED IMMEDIATELY.

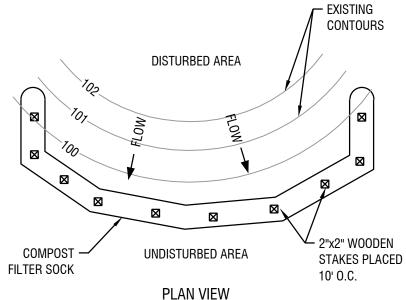
FILTER SOCK INLET PROTECTION NOT TO SCALE

SIS)		
EN		
Ш		

BLOWN / PLACED -- COMPOST FILTER SOCK FILTER MEDIA UNDISTURBED AREA **SECTION** - EXISTING CONTOURS DISTURBED AREA

- 2" x 2" WOODEN STAKES

PLACED 10" O.C.



INSTALLATION NOTES

. THIS DETAIL IS BASED ON STANDARD CONSTRUCTION DETAIL #4-1 OF THE PADEP E&S CONTROL MANUAI

- REASONABLY FREE (<1% BY DRY WEIGHT) OF MAN-MADE FOREIGN MATTER. THE COMPOST PRODUCT SHOULD NOT RESEMBLE THE RAW MATERIAL FROM WHICH IT WAS DERIVED. WOOD AND BARK CHIPS. GROUND CONSTRUCTION DEBRIS OR REPROCESSED WOOD PRODUCTS ARE NOT ACCEPTABLE AS THE ORGANIC COMPONENT OF THE MIX.
- THE PHYSICAL PARAMETERS OF THE COMPOST SHALL MEET THE STANDARDS IN TABLE 4.2 OF THE PADEP E&
- CONTROL MANUAL. THE STANDARDS IN THE PENNDOT PUBLICATION 408 ARE AN ACCEPTABLE ALTERNATIVE. 4. THE PHYSICAL PARAMETERS OF THE COMPOST SOCK FILTER FABRIC SHALL MEET THE STANDARDS IN TABLE 4.1 OF THE PADEP E&S CONTROL MANUAL
- COMPOST FILTER SOCK SHALL BE PLACED AT EXISTING LEVEL GRADE. BOTH ENDS OF SOCK SHALL BE EXTENDED AT LEAST 8' UP SLOPE AT 45° TO THE MAIN SOCK ALIGNMENT.
- 6. TRAFFIC SHALL NOT BE PERMITTED TO CROSS FILTER SOCKS. MAINTENANCE NOTES

- COMPOST FILTER SOCKS SHALL BE INSPECTED WEEKLY AND AFTER EACH RUNOFF EVENT. . ACCUMULATED SEDIMENT SHALL BE REMOVED WHEN IT REACHES 1/2 THE ABOVE GROUND HEIGHT OF THE SOCK AND DISPOSED OF IN ACCORDANCE IN A TOPSOIL STOCK PILE PER PLAN.
- DAMAGED SOCKS SHALL BE REPAIRED ACCORDING TO MANUFACTURER'S SPECIFICATIONS OR REPLACED WITHIN 24 HOURS OF INSPECTION. LOOSENED SUPPORT STAKES SHALL BE REMOVED AND NEW STAKES RE-DRIVEN. AL
- 4. BIODEGRADABLE FILTER SOCKS BE REPLACED AFTER 6 MONTHS; PHOTODEGRADABLE SOCKS AFTER 1 YEAR POLYPROPYLENE SOCKS SHALL BE REPLACED ACCORDING TO MANUFACTURER'S RECOMMENDATIONS.
- 5. UPON STABILIZATION OF THE AREA TRIBUTARY TO THE SOCK, STAKES SHALL BE REMOVED, THE MESH CUT AND REMOVED AND THE MATERIALS RECYCLED OR DISPOSED OF. THE COMPOST SHALL BE SPREAD AS A SOIL SUPPLEMENT AND THE AREA SHALL BE IMMEDIATELY SEEDED PER THE PLAN.

COMPOST FILTER SOCK NOT TO SCALE

TABLE 4.1 Compost Sock Fabric Minimum Specifications					
Material Type	3 mil HDPE	5 mil HDPE	5 mill HDPE	Multi-Filament Polypropyleen (MFPP)	Heavy Duty Multi-Filament Polypropyleen (HDMFPP)
Material Characteristics	Photo-degradable	Photo-degradable	Bio-degradable	Photo-degradable	Photo-degradable
Sock Diamters	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"	1/8"
Tensile Strength	-	26 pis	26 psi	44 psi	202 psi
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
Two.nly eyetame					

Two-ply systems HDPE biaxial net Continuously wound Minimum Functional Longevity Fusion-welded junctures 3/4" x 3/4" Max. aperture size Composite Polypropylene Fabric (Woven Layer and non-woven fleece mechanically fused via needle punch) Outer Filtration Mesh 3/4" x 3/4" Max. aperture size Sock fabrics composed of burlap may be used on projects lasting 6 months or less.

MULCH APPLICATION RATE

3 TONS

3 TONS

1 TON

THE PADEP E&S CONTROL MANUAL.

STRAW

HAY

HYDROMULCH

PERMANENT LAWN SEED MIXTURE 1					
SPECIES	% PURITY ²	% GERMINATION ²	% PLS ²	SEEDING RATE PLS ³ (lb/A)	
KENTUCKY BLUE GRASS	90	80	72	15	
FINE FESCUE	95	80	76	20	
PERENNIAL RYGRASS	95	85	81	15	

MUI CH APPLICATION RATES

THE SOIL AMENDMENT APPLICATION RATE EQUIVALENTS TABLE IS ADAPTED FROM TABLE 11.6 OF

STRAW AND HAY MULCH SHOULD BE ANCHORED OR TACKIFIED IMMEDIATELY AFTER APPLICATION TO

STRAW OR HAY INTO THE SOIL — ABOUT 3 INCHES. THIS METHOD SHOULD BE LIMITED TO SLOPES NO

STEEPER THAN 3H:1V. THE MACHINERY SHOULD BE OPERATED ON THE CONTOUR. CRIMPING OF HAY

PREVENT BEING WINDBLOWN. A TRACTOR-DRAWN IMPLEMENT MAY BE USED TO "CRIMP" THE

ALL STRAW AND HAY MULCH SHALL CLEAN AND FREE OF WEEDS AND UNDESIRABLE SEED.

OR STRAW BY RUNNING OVER IT WITH TRACKED MACHINERY IS NOT RECOMMENDED.

1,240 LBS

1,240 LBS

415 LBS

APPLICATION RATE (MIN)

140 LBS

140 LBS

47 LBS

PER ACRE PER 1,000 SF PER 1,000 SY

PERMANENT LAWN SEED MIXTURE SHALL BE USED IN ALL AREAS OF PERMANENT VEGETATION UNLESS NOTED OTHERWISE ON THE PLANS.

RECOMMENDED MINIMUM PURITY AND GERMINATION. SEED APPLICATION RATE IS BASED ON THE RECOMMENCED MINIMUM % PURITY AND % GERMINATION LISTED ABOVE. ADJUST SEEDING RATE BASED ON THE SEED'S ACTUAL PLS.

PERMANENT SEED MIXTURE & RATE

NO. DATE DESCRIPTION REVISIONS **EROSION CONTROL PLAN**

RETAIL MARKET ESTABLISHMENT

PATTON TOWNSHIP CENTRE COUNTY, PENNSYLVANIA



MID-PENN ENGINEERING CORPORATION

CONSULTING ENGINEERS & SURVEYORS 2049 WEST MARKET STREET LEWISBURG, PENNSYLVANIA 17837

TELEPHONE: (570) 524-2214 • WEB: www.mid-pennengineering.com SCALE: SHEET NO K.R.E. AS NOTED 3 OF 4

SHEET INDEX SHT. NO. DESCRIPTION DWG. # EROSION & SEDIMENT CONTROL PLAN

THER WHEAT OR OAT STRAW,

NOT CHOPPED OR FINELY

TIMOTHY, MIXED CLOVER AND

TIMOTHY OR OTHER NATIVE

FORAGE GRASSES PER MANUFACTURE

RECOMMENDATIONS

EROSION & SEDIMENT CONTROL DETAILS ESC-2

JOBNO. DRAWN BY: DATE: CHECKED BY: DWG. NO. 21-1.9 MARCH 11, 2022

GENERAL CONSTRUCTION NOTES: 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 (STAMPED, SIGNED AND DATED BY THE REVIEWING AGENCY) MUST BE AVAILABLE AT THE PROJECT SITE AT ALL TIMES. THE REVIEWING AGENCY SHALL BE NOTIFIED OF ANY CHANGES TO THE APPROVED PLAN PRIOR TO IMPLEMENTATION OF THOSE CHANGES. THE REVIEWING AGENCY MAY REQUIRE A WRITTEN SUBMITTAL OF THOSE CHANGES FOR REVIEW AND APPROVAL AT ITS DISCRETION. AT LEAST 7 DAYS PRIOR TO STARTING ANY EARTH DISTURBANCE ACTIVITIES, INCLUDING CLEARING AND GRUBBING, THE OWNER AND/OR OPERATOR SHALL INVITE ALL CONTRACTORS, THE LANDOWNER, APPROPRIATE MUNICIPAL OFFICIALS, THE E&S

STAGES OF IMPLEMENTATION OF THE PCSM PLAN, AND A REPRESENTATIVE FROM THE LOCAL CONSERVATION DISTRICT TO AN ON-SITE PRECONSTRUCTION MEETING. 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

PLAN PREPARER, THE PCSM PLAN PREPARER, THE LICENSED PROFESSIONAL RESPONSIBLE FOR OVERSIGHT OF CRITICAL

- EXISTING UNDERGROUND UTILITIES. ALL EARTH DISTURBANCE ACTIVITIES SHALL PROCEED IN ACCORDANCE WITH THE SEQUENCE PROVIDED ON THE PLAN DRAWINGS. DEVIATION FROM THAT SEQUENCE MUST BE APPROVED IN WRITING FROM THE LOCAL CONSERVATION DISTRICT OR BY THE DEPARTMENT PRIOR TO IMPLEMENTATION
- AREAS TO BE FILLED ARE TO BE CLEARED, GRUBBED, AND STRIPPED OF TOPSOIL TO REMOVE TREES, VEGETATION, ROOTS AND OTHER OBJECTIONABLE MATERIAL 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 BMPS SPECIFIED BY THE BMP SEQUENCE FOR THAT STAGE OR PHASE HAVE BEEN INSTALLED AND ARE FUNCTIONING AS DESCRIBED IN THIS E&S PLAN. AT NO TIME SHALL CONSTRUCTION VEHICLES BE ALLOWED TO ENTER AREAS OUTSIDE THE LIMIT OF DISTURBANCE
- BOUNDARIES SHOWN ON THE PLAN MAPS. THESE AREAS MUST BE CLEARLY MARKED AND FENCED OFF BEFORE CLEARING AND GRUBBING OPERATIONS BEGIN. TOPSOIL REQUIRED FOR THE ESTABLISHMENT OF VEGETATION SHALL BE STOCKPILED AT THE LOCATION(S) SHOWN ON THE PLAN MAPS(S) 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. 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 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 AT 25 PA. CODE 260.1 ET SEQ., 271.1, AND 287.1 ET. SEQ. NO BUILDING MATERIALS OR WASTES OR UNUSED BUILDING MATERIALS SHALL BE BURNED, BURIED. DUMPED. OR
- 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. THE CONTRACTOR IS RESPONSIBLE FOR ENSURING THAT ANY MATERIAL BROUGHT ON SITE IS CLEAN FILL. FORM FP-001 MUST BE RETAINED BY THE PROPERTY OWNER FOR ANY FILL MATERIAL AFFECTED BY A SPILL OR RELEASE OF A REGULATED
- SUBSTANCE BUT QUALIFYING AS CLEAN FILL DUE TO ANALYTICAL TESTING. ALL PUMPING OF WATER FROM ANY WORK AREA SHALL BE DONE ACCORDING TO THE PROCEDURE DESCRIBED IN THIS PLAN, OVER UNDISTURBED VEGETATED AREAS. VEHICLES AND EQUIPMENT MAY NEITHER ENTER DIRECTLY NOR EXIT DIRECTLY FROM ANY LOT TO ANY STREET UNLESS
- IMMEDIATELY CROSSING A ROCK CONSTRUCTION ENTRANCE AT A LOCATION INDICATED ON THE PLANS. 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. 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 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 SURFACE WATER.
- ALL SEDIMENT REMOVED FROM BMPS SHALL BE DISPOSED OF IN THE MANNER DESCRIBED ON THE PLAN DRAWINGS. AREAS WHICH ARE TO BE TOP SOILED 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 SHALL HAVE A MINIMUM OF 2 INCHES OF TOPSOIL. ALL FILLS SHALL BE COMPACTED AS REQUIRED TO REDUCE EROSION, SLIPPAGE, SETTLEMENT, SUBSIDENCE OR OTHER
- RELATED PROBLEMS. FILL INTENDED TO SUPPORT BUILDINGS, STRUCTURES AND CONDUITS, ETC. SHALL BE COMPACTED IN ACCORDANCE WITH LOCAL REQUIREMENTS OR CODES ALL EARTHEN FILLS SHALL BE PLACED IN COMPACTED LAYERS NOT TO EXCEED 9 INCHES IN THICKNESS.
- 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. FILL SHALL NOT BE PLACED ON SATURATED OR FROZEN SURFACES.
- SEEPS OR SPRINGS ENCOUNTERED DURING CONSTRUCTION SHALL BE HANDLED IN ACCORDANCE WITH THE STANDARD AND SPECIFICATION FOR SUBSURFACE DRAIN OR OTHER APPROVED METHOD. ALL GRADED AREAS SHALL BE PERMANENTLY STABILIZED IMMEDIATELY UPON REACHING FINISHED GRADE. CUT SLOPES IN COMPETENT BEDROCK AND ROCK FILLS NEED NOT BE VEGETATED. SEEDED AREAS WITHIN 50 FEET OF A SURFACE WATER, OR
- AS OTHERWISE SHOWN ON THE PLAN DRAWINGS, SHALL BE BLANKETED ACCORDING TO THE STANDARDS OF THIS PLAN. 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 TEMPORARY STABILIZATION SPECIFICATIONS. THOSE AREAS WHICH WILL NOT BE REACTIVATED WITHIN 1 YEAR SHALL BE STABILIZED IN ACCORDANCE WITH THE PERMANENT STABILIZATION SPECIFICATIONS. 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. CUT AND FILL SLOPES SHALL BE CAPABLE OF RESISTING FAILURE DUE TO SLUMPING, SLIDING, OR OTHER MOVEMENTS.
- 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. 30. UPON COMPLETION OF ALL EARTH DISTURBANCE ACTIVITIES AND PERMANENT STABILIZATION OF ALL DISTURBED AREAS, THE OWNER AND/OR OPERATOR SHALL CONTACT THE LOCAL CONSERVATION DISTRICT FOR AN INSPECTION PRIOR TO REMOVAL/CONVERSION OF THE E&S BMP
- AFTER FINAL SITE STABILIZATION HAS BEEN ACHIEVED, TEMPORARY EROSION AND SEDIMENT BMPS MUST BE REMOVED OR CONVERTED TO PERMANENT POST CONSTRUCTION STORMWATER MANAGEMENT BMPS. AREAS DISTURBED DURING REMOVAL OR CONVERSION OF THE BMPS SHALL BE STABILIZED IMMEDIATELY. IN ORDER TO ENSURE RAPID REVEGETATION OF DISTURBED AREAS, SUCH REMOVAL/CONVERSIONS ARE TO BE DONE ONLY DURING THE GERMINATING SEASON.
- UPON COMPLETION OF ALL EARTH DISTURBANCE ACTIVITIES AND PERMANENT STABILIZATION OF ALL DISTURBED AREAS, THE OWNER AND/OR OPERATOR SHALL CONTACT THE LOCAL CONSERVATION DISTRICT TO SCHEDULE A FINAL INSPECTION. THE APPLICANT SHOULD COMPLETE AND SUBMIT A NOTICE OF TERMINATION (N.O.T.) FORM AT LEAST 30 CALENDAR DAYS PRIOR TO THE REQUEST FOR A FINAL INSPECTION. ALSO, ALL EARTHMOVING CONTRACTORS SHOULD BE ADDED ON AS "CO-PERMITTEES PER THE "TRANFEREEE/CO-PERMITTEE APPLICATION" FORM.
- 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 STREAMS LAW. THE CLEAN STREAMS LAW PROVIDES FOR UP TO \$10,000 PER DAY IN CIVIL PENALTIES, UP TO \$10,000 IN SUMMARY CRIMINAL PENALTIES, AND UP TO \$25,000 IN MISDEMEANOR CRIMINAL PENALTIES FOR EACH VIOLATION. CONCRETE WASH WATER SHALL BE HANDLED IN THE MANNER DESCRIBED ON THE PLAN DRAWINGS. IN NO CASE SHALL IT BE
- ALLOWED TO ENTER ANY SURFACE WATERS OR GROUNDWATER SYSTEMS. ALL STORMWATER FACILITIES SHALL BE KEPT FREE OF OBSTRUCTIONS INCLUDING BUT NOT LIMITED TO FILL, ROCKS, LEAVES,
- WOODY DEBRIS, ACCUMULATED SEDIMENT, EXCESS VEGETATION, AND CONSTRUCTION MATERIAL/WASTES. UNDERGROUND UTILITIES CUTTING THROUGH ANY ACTIVE CHANNEL SHALL BE IMMEDIATELY BACKFILLED AND THE CHANNEL RESTORED TO ITS ORIGINAL CROSS-SECTION AND PROTECTIVE LINING. ANY BASE FLOW WITHIN THE CHANNEL SHALL BE CONVEYED PAST THE WORK AREA IN THE MANNER DESCRIBED IN THIS PLAN UNTIL SUCH RESTORATION IS COMPLETE.
- CHANNELS HAVING RIPRAP. RENO MATTRESS, OR GABION LININGS MUST BE SUFFICIENTLY OVER-EXCAVATED SO THAT THE DESIGN DIMENSIONS WILL BE PROVIDED AFTER PLACEMENT OF THE PROTECTIVE LINING. EROSION CONTROL BLANKETING SHALL BE INSTALLED ON ALL SLOPES 3H:1V OR STEEPER WITHIN 50 FEET OF A SURFACE WATER AND ON ALL OTHER DISTURBED AREAS SPECIFIED ON THE PLAN MAPS AND/OR DETAIL SHEETS.
- FILL MATERIAL FOR EMBANKMENTS SHALL BE FREE OF ROOTS, OR OTHER WOODY VEGETATION, ORGANIC MATERIAL LARGE STONES, AND OTHER OBJECTIONABLE MATERIALS. THE EMBANKMENT SHALL BE COMPACTED IN MAXIMUM 9"LAYERED LIFTS AT THE CONTRACTOR SHALL OBTAIN A WEATHER REPORT FOR THE CURRENT DAY AND ONE WEEK PERIOD IN THE FUTURE DAILY PRIOR TO THE DAYS EARTH MOVING ACTIVITIES, AND PLAN AND SCHEDULE EARTH MOVING AND STABILIZATION ACTIVITIES TO
- AVOID HAVING UN-STABILIZED SURFACES EXPOSED DURING PRECIPITATION, OR HIGH WIND EVENTS. THE CONTRACTOR SHALL CLOSE ANY EXCAVATIONS EXCEEDING 24" IN DEPTH OR PROTECT WITH HIGH VISIBILITY CONSTRUCTION FENCE AT THE END OF EACH DAY.
- THE CONTRACTOR SHALL STABILIZE ALL DISTURBED AREAS THE SAME DAY OF THE DISTURBANCE WHEN POSSIBLE, OR WITHIN 4 DAYS OF THE INITIAL EARTH DISTURBANCE. ALL AREAS NOT OTHERWISE NOTED SHALL BE TOP SOILED, SEEDED, FERTILIZED, RAKED AND MULCHED PER THE SEEDING SCHEDULE ON THE EROSION & SEDIMENT CONTROL DETAIL SHEET.
- THE EARTH DISTURBANCE SHALL BE MINIMIZED TO THE EXTENT OF THE AREA WITHIN THE LIMITS OF DISTURBANCE AS SHOWN ON THE PLAN. THE DURATION OF THE EARTH DISTURBANCE ACTIVITIES SHALL KEPT TO THE MINIMUM TIME NEEDED AND ALL AREAS SHALL BE SEEDED OR STABILIZED IMMEDIATELY THEREAFTER, EXCEPT FOR AREAS THAT WILL BE DISTURBED CONTINUALLY ALL EXISTING DRAINAGE FACILITIES SHALL BE PROTECTED TO THE MAXIMUM EXTENT POSSIBLE FROM SEDIMENT LADEN RUNOFF
- AND DAMAGE FROM CONSTRUCTION ACTIVITIES. EXISTING TREES SHRUBS, LAWN AREAS AND OTHER AREAS OUTSIDE THE LIMITS OF DISTURBANCE SHALL BE PROTECTED FROM EARTH MOVING ACTIVITIES AS NEEDED. THE CONTRACTOR SHALL LIMIT SOIL COMPACTION WHERE IMPERVIOUS SURFACES ARE NOT PROPOSED TO THE MAXIMUM
- EXTENT POSSIBLE THE PROPOSED LAND USE WILL BE A MANUFACTURING FACILITY.
- 48. NO EXISTING RIPARIAN FOREST BUFFERS EXIST WITHIN THE PROJECT AREA. NO RIPARIAN AREAS ARE PROPOSED WITHIN THE PROJECT AREA 49. NO WETLANDS HAVE BEEN IDENTIFIED WITHIN THE PROJECT AREA. NO WETLANDS SHALL BE DISTURBED AS PART OF THIS

SPECIAL CONSTRUCTION NOTES

- ALL DISTURBED AREAS PROVIDED ON PLANS HAVE BEEN MINIMIZED TO THE LEAST AMOUNT OF EARTH DISTURBANCE. ALL CONSTRUCTION ACTIVITIES AND EARTH DISTURBANCE SHALL BE LIMITED TO THE MINIMAL AREA REQUIRED TO COMPLETE THE OPERATIONS AND EARTHWORK ACTIVITIES PROVIDED ON THE PLAN.
- ALL CONSTRUCTION ACTIVITIES SHOULD BE PERFORMED IN AN EXPEDITED MANNER SO AS TO NOT DELAY CONSTRUCTION ACTIVITIES THAT COULD RESULT IN ACCELERATED SEDIMENTATION RUN-OFF DURING STORM EVENTS. ALL DISTURBED AREAS SHOULD BE STABILIZED AS SOON AS POSSIBLE IN A TEMPORARY OR PERMANENT MANNER. ALL "PERVIOUS" AREAS SHOWN ON PLANS SHALL REMAIN IN "PERVIOUS" CONDITIONS. NO EARTHEN EMBANKMENTS, GRASS AREAS, PLANTING BEDS, PLANTING ISLANDS OR PERVIOUS PAVEMENT AREAS SHALL BE CONVERTED TO "IMPERVIOUS"
- CONDITIONS. CONTRACTOR SHALL ASSURE THAT ANY APPROVED / PLANNED "IMPERVIOUS" AREA SHALL NOT BE EXPANDED OR ENLARGED WITH "IMPERVIOUS" MATERIALS. THIS PLAN MINIMIZES IMPERVIOUS SURFACES TO THE MAXIMUM EXTENT
- CONTRACTOR SHALL PROTECT ALL EXISTING VEGETATION, TREE MASSES, AND PLANT MATERIALS NOT REQUIRED TO BE REMOVED TO ACCOMMODATE PROJECT SITE CONSTRUCTION. THE LIMITS OF VEGETATIVE MATERIAL TO BE REMOVED SHOULD BE "FLAGGED, MARKED OR STAKED" TO IDENTIFY THE LIMITS OF VEGETATIVE MATERIAL REMOVAL.
- AND/OR SITE GRADING SHALL BE UNDERTAKEN BEYOND THE LIMITS OF WORK SHOWN ON PLANS. CONTRACTOR SHALL LIMIT THE COMPACTION OF SOIL AREAS, WHICH INCLUDES GRADED AREAS, FILL AREAS AND NON-GRADED AREAS NOT REQUIRED FOR CONSTRUCTION. THIS SPECIAL CONSTRUCTION IS IDENTIFIED TO PROMOTE INFILTRATION OF STORMWATER DRAINAGE WITHIN THE ENTIRE PROJECT SITE. NO EXCESSIVE COMPACTION OPERATIONS SHOULD BE UNDERTAKEN BY THE CONTRACTOR.

CONTRACTOR SHALL LIMIT SITE CLEARING AND GRADING TO THE AREAS INDICATED ON THE PLAN. NO ADDITIONAL CLEARING

TEMPORARY SEEDING:

- 1. IF DISTURBED AREAS WILL NOT BE PERMANENTLY SEEDED OR OTHERWISE STABILIZED WITHIN 20 DAYS, THESE AREAS SHALL BE SEEDED PER THE TEMPORARY SEED MIXTURE RATES.
- LIME AND FERTILIZER SHALL BE PLACED PER TABLE 11.2.

MULCHING SHALL BE USED WITH ALL TEMPORARY SEEDING THE NOTED MULCH RATES.

PERMANENT SEEDING:

- 1. ALL DISTURBED AREAS SHALL RECEIVE 4" MINIMUM OF TOPSOIL (UNCOMPACTED AND FREE OF STONES AND DEBRIS) AND SEEDED WITH SEED AS INDICATED ON PLAN. CONTRACTOR TO COORDINATE HIS/HER WORK WITH OTHER TRADES REGARDING FINISH GRADING TO ENSURE 70% UNIFORM COVER AND PROPER SEDIMENTATION CONTROL WHEN FINAL GRADES ARE SET. IF AVAILABLE CONTRACTOR IS TO USE STOCKPILED TOPSOIL ONSITE. IF NOT AVAILABLE THE CONTRACTOR WILL BE RESPONSIBLE FOR IMPORTING THE TOPSOIL NECESSARY TO MEET FINISH GRADE.
- FINE GRADE AND PREP SEEDED AREAS TO A UNIFORM & CONSISTENT GRADE REMOVING STONES, STICKS AND DEBRIS. FINISH SURFACE GRADE BY RAKING, ROLLING OR LIGHTLY DRAGGING TO LEVEL ALL HIGH SPOTS AND FILL IN LOW SPOTS.
- TOPSOIL, SHALL BE FERTILE, FRIABLE AND REPRESENTATIVE OF LOCAL PRODUCTIVE SOIL, CAPABLE OF SUSTAINING VIGOROUS PLANT GROWTH AND FREE OF CLAY LUMPS, SUBSOIL, ROCKS GREATER THAN 2' IN DIAMETER, NOXIOUS WEEDS OR OTHER FOREIGN MATTER SUCH AS ROOTS, STICKS AND OTHER EXTRANEOUS MATERIALS. TOPSOIL SHALL NOT BE FROZEN OR MUDDY. PH OF TOPSOIL TO RANGE BETWEEN 5.5 AND 7.5.

SEEDED AREAS SHALL BE SEEDED WITH THE MIXTURE AND RATE AS SPECIFIED. SEED MAY BE APPLIED EITHER BY A

- MECHANICAL SPREADER OR HYRDROSEEDING. WHICHEVER METHOD IS CHOSEN A THICK STAND OF GRASS SHALL BE ACHIEVED WITHIN 21 DAYS OR A SECOND OVERSEEDING WILL BE REQUIRED. FERTILIZATION AND SOIL AMENDMENTS FOR ALL GRASSED AREAS SHALL BE AS PER LABORATORY ANALYSIS OR AT A MINIMUM AS IDENTIFIED IN TABLE 11.2. HYDROSEEDING MAY BE SUBSTITUTED FOR MECHANICAL SEEDING BY MIXING SEED, FERTILIZER AND PULVERIZED MULCH IN WATER, USING EQUIPMENT SPECIFICALLY DESIGNED FOR HYDROSEED APPLICATION. MIX
- UNTIL UNIFORMLY BLENDED INTO HOMOGENEOUS SLURRY SUITABLE FOR HYDRAULIC APPLICATION. APPLY UNIFORMLY AT A RATE AS REQUIRED TO OBTAIN SPECIFIED SEEDING RATE. ALL EXISTING LAWN AREAS DISTURBED BY CONSTRUCTION ARE TO BE REPAIRED TO ITS ORIGINAL CONDITION BY FINE
- GRADING & SEEDING AS PER THE PLANTING SPECIFICATION. ALL SEEDED AREAS SHALL BE MULCHED PER THE NOTED MULCH RATES.
- RESEED AND FINE GRADE ANY BARE, ERODED, OR SPARSE AREAS VOID OF TURF THAT HAVE NOT GERMINATED ADEQUATELY OR HAVE NOT ESTABLISHED A UNIFORM AND CONSISTENT COVER.

SEQUENCE OF CONSTRUCTION & CRITICAL STAGES OF BMP INSTALLATION:

EROSION & SEDIMENT CONTROL SEQUENCE OF CONSTRUCTION

- 1. THE CONTRACTOR SHALL NOTIFY THE COUNTY CONSERVATION DISTRICT AND PA ONE CALL SYSTEM AT LEAST THREE (3) WORKING DAYS BEFORE THE START OF WORK.
- INSTALL THE ROCK CONSTRUCTION ENTRANCE PER THE PLAN AND DETAIL.
- 3. INSTALL THE INLET PROTECTION PER THE PLAN DRAWING AND DETAIL.
- 4. INSTALL SILT SOCKS PER THE PLAN AND DETAIL. 5. STRIP EXISTING STONE AND STOCKPILE ON THE SITE FOR RE-USE.
- 6. RE-LOCATE EXISTING 2X2 INLET PER THE PLAN AND PLACE A FILTER SOCK AROUND THE INLET FOR PROTECTION.
- INSTALL NEW PIPING FROM INLET TO EXISTING BASIN.
- 8. EXCAVATE SUB-GRADE OF PROPOSED PAVEMENT AREA AND HAUL OFF EXCESS MATERIAL TO AN APPROVED SITE AND THEN IMMEDIATELY STABILIZE PROPOSED PAVED AREA WITH EXISTING STOCKPILED STONE AND PLACE A LAYER OF FRESH HAULED
- IN STONE ON TOP TO PROVIDE A UNIFORM 6" THICK LAYER OF STONE. INSTALL CONCRETE WASHOUT RING AT LOCATION SHOWN OF THE PLAN DRAWING.
- 10. CONSTRUCTION OF THE BUILDING MAY NOW COMMENCE INCLUDING FOUNDATIONS.
- 11. UPON COMPLETION OF THE BUILDING IMMEDIATELY STABILIZE ALL SURROUNDING LAWN AREAS. AFTER ALL AREAS ARE STABILIZED THE ROCK CONSTRUCTION ENTRANCE MAY BE REMOVED AND THE PARKING AREA MAY BE FINAL PAVED.
- 12. E&S BMPS SHALL REMAIN FUNCTIONAL UNTIL ALL TRIBUTARY AREAS ARE PERMANENTLY STABILIZED. 13. AFTER CONSTRUCTION IS COMPLETE CLEAN UP THE SITE OF ALL TRASH AND DEBRIS AND CLEAN OUT ALL ACCUMULATED
- SEDIMENT. STABILIZE ALL SURFACES NOT TO BE PAVED WITH FERTILIZER, SEED, AND MULCH.
- 14. SCHEDULE FINAL EROSION CONTROL INSPECTION WITH ENGINEER AND CONSERVATION DISTRICT. ADDRESS ALL REMAINING ISSUES WITH THE CONSERVATION DISTRICT.
- 16. ONCE THE SITE HAS ACHIEVED A MINIMUM UNIFORM 70% PERENNIAL VEGETATIVE COVER OVER THE ENTIRE DISTURBED AREA,
- ALL E&S BMPS CAN BE REMOVED. 16.a. FIRST LOAD AND HAUL OFF ANY EXCESS TOPSOIL FROM THE SITE TO AN APPROVED SITE AND IMMEDIATELY STABILIZE
- THIS AREA WITH STONE SUB-BASE. 16.b. REMOVE ALL FILTER BAGS FROM THE SITE, AND STABILIZE UNDERLINING AREAS WITH SEED FERTILIZER AND MULCH.

TEMPORARY CONTROL MEASURES

TEMPORARY CONTROL MEASURES WILL BE IMPLEMENTED TO ASSURE THAT EROSION IS MINIMIZED AND SEDIMENT IS RETAINED DURING CONSTRUCTION. THE CONSTRUCTION ENTRANCE IS TO BE INSTALLED PER THE PLAN LOCATION TO PREVENT TRACKING OF SOIL FROM THE SITE. TOPSOIL STOCKPILES WILL BE PROVIDED FOR THE PROPER STORAGE AND STABILIZATION OF THE SITE'S TOPSOIL. TEMPORARY AND PERMANENT SEEDING HAS BEEN PROPOSED TO HELP PREVENT ACCELERATED RUNOFF. A CONCRETE WASHOUT RING AND INLET FILTER BAGS HAVE ALSO BEEN PROPOSED TO PREVENT SEDIMENT FROM LEAVING THE SITE.

SHORT TERM MAINTENANCE PROGRAM

UNTIL THE SITE IS STABILIZED, ALL EROSION AND SEDIMENT BMPS MUST BE MAINTAINED PROPERLY. MAINTENANCE MUST INCLUDE INSPECTION OF ALL EROSION AND SEDIMENT CONTROL BMPS ON A WEEKLY BASIS AND IMMEDIATELY AFTER EACH RUNOFF EVENT. RF-MULCHING, AND RE-NETTING MUST BE PERFORMED IMMEDIATELY, IF EROSION AND SEDIMENT CONTROL BMPS FAIL TO PERFORM AS EXPECTED, REPLACEMENT BMPS, OR MODIFICATIONS OF THOSE INSTALLED WILL BE REQUIRED. A CONSTRUCTION LOG SHALL BE REQUIRED. THE CONSTRUCTION LOG SHALL INCLUDE A WEEKLY REPORT ON THE CURRENT EFFECTIVENESS OF THE EROSION AND SEDIMENTATION CONTROLS AND THE EFFORT BEING MADE TO CORRECT ANY PROBLEMS. THE INSPECTOR OR JOB SUPERVISOR WILL REVIEW THE ENTIRE SITE FOR SIGNS OF EROSION, DESTROYED OR FILLED SILT SOCKS, RE-VEGETATION SUCCESS, AND OTHER RELATED PROBLEMS. THE CONTROLS WILL BE CLEANED OF SEDIMENT OR REPLACED AS NEEDED. ANY FIELD CONDITIONS THAT INDICATE THAT THE CONTROLS ARE NOT EFFECTIVE SHOULD BE BROUGHT TO THE ATTENTION OF THE PLAN PREPARES FOR CORRECTIVE MEASURES. THE MAINTENANCE OF THESE FACILITIES SHALL BE AS FOLLOWS AND PER THE RELATED DETAILS:

CONSTRUCTION ENTRANCE:

- A. 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. WASHING THE ROADWAY OR SWEEPING OF DEPOSITS INTO ROADWAY DITCHES, SEWER, CULVERTS OR OTHER
- C. IF EXCESSIVE AMOUNTS OF SEDIMENT ARE BEING DEPOSITED ON A ROADWAY, EXTEND THE LENGTH OF THE ROCK CONSTRUCTION ENTRANCE BY 50 FEET INCREMENTS UNTIL CONDITION IS ALLEVIATED, OR INSTALL WASH RACK.
- A. THE SITE'S SOIL STOCKPILE SHALL BE SEEDED WITH THE TEMPORARY SEED MIXTURE TO ENSURE PROPER STABILIZATION. ANY ADDITIONAL TOPSOIL SPREAD AT THESE LOCATIONS SHALL ALSO BE SEEDED WITH A TEMPORARY SEED MIX.
- BAGS SHALL BE EMPTIED AND RINSED OR REPLACED WHEN 1/2 FULL OR WHEN FLOW CAPACITY HAS BEEN REDUCED SO AS TO
- CAUSE FLOODING BYPASSING OF THE INLET.
- DAMAGED OR CLOGGED BAGS SHALL BE REPLACE. A SUPPLY SHALL BE MAINTAINED ON SITE FOR REPLACEMENT OF BAGS. ALL NEEDED REPAIRS SHALL BE INITIATED IMMEDIATELY AFTER THE INSPECTION.
- ACCUMULATED SEDIMENT SHALL BE PLACED ON THE TOPSOIL STOCK PILE AND THE AREA IMMEDIATELY RESEEDED WITH THE SPECIFIED TEMPORARY SEED MIXTURE. ALL USED BAGS SHALL BE DISPOSED OF OR RECYCLED ACCORDING TO THE PLAN.
- A. ALL CONCRETE WASHOUT FACILITIES SHOULD BE INSPECTED DAILY. DAMAGED OR LEAKING WASHOUTS SHOULD BE DEACTIVATED AND REPAIRED OR REPLACED IMMEDIATELY.
- ACCUMULATED MATERIALS SHOULD BE REMOVED WHEN THEY REACH 75% CAPACITY.
- C. PLASTIC LINERS SHOULD BE REPLACED WITH EACH CLEANING OF THE WASHOUT FACILITY. **SPOILS MATERIALS:**

- A. ALL SEDIMENT REMOVED FROM EROSION AND SEDIMENTATION CONTROL FACILITIES SHALL BE SPREAD OVER THE EXISTING TOPSOIL STOCKPILE WITH CONTROLS ALREADY IN PLACE. THE SPOILS MATERIALS SHALL BE SEEDED WITH A TEMPORARY SEED MIXTURE. TEMPORARY SEEDING:
- A. UPON THE TEMPORARY CESSATION OF CONSTRUCTION ACTIVITIES, THE SITE SHALL BE STABILIZED IN AN APPROPRIATE MANNER TO REDUCE ACCELERATED EROSION.
- MULCHED USED FOR SEEDING SHALL BE CLEAN AND FREE OF UNDESIRABLE SEED.
- INVASIVE OR UNDESIRABLE SPECIES GROWING IN ANY TEMPORARILY SEEDED AREAS SHALL BE REMOVED PRIOR TO THE PLANTS GOING TO SEED.

- A. IF PERMANENT 70% UNIFORM VEGETATIVE COVER HAS NOT BEEN ESTABLISHED BY THE THIRD MOWING/ONE MONTH, THE CONTRACTOR SHALL REAPPLY TOPSOIL IF NECESSARY, AND RE-SEEDED, AND MULCHED AS NEEDED TO PROVIDE ADEQUATE
- MULCHED USED FOR SEEDING SHALL BE CLEAN AND FREE OF UNDESIRABLE SEED.
- INVASIVE OR UNDESIRABLE SPECIES GROWING IN ANY PERMANENTLY SEEDED AREAS WITHIN THE FIRST 6 MONTHS OF PLANTING SHALL BE REMOVED PRIOR TO THE PLANTS GOING TO SEED.

RECYCLING AND DISPOSAL OF MATERIAL

- A. THE CONTRACTOR SHALL BE RESPONSIBLE TO ENSURE THAT THE PROPER MEASURES FOR RECYCLING AND DISPOSAL OF MATERIALS ASSOCIATED WITH OR FROM THE PROJECT SITE WILL BE UNDERTAKEN IN ACCORDANCE WITH ALL APPLICABLE
- B. ALL WASTE MATERIALS (I.E. CONSTRUCTION DEBRIS, GARBAGE, ETC.) GENERATED DURING CONSTRUCTION ACTIVITIES SHALL BE DISPOSED OF AT A DEP APPROVED LANDFILL.
- ANY CLEAN FILL, EXCESS STONE FROM THE ROCK CONSTRUCTION ENTRANCE OR SILT SOCKS, EXCESS CUT OR TOP-SOIL SHALL BE HAULED OFF SITE TO AN APPROVED LOCATION. THE MATERIAL SHALL REMAIN THE PROPERTY OF THE OWNER UNLESS PERMISSION IS GRANTED BY THE OWNER TO GIVE THE MATERIAL TO THE CONTRACTOR.

NO. DATE DESCRIPTION REVISIONS

RETAIL MARKET ESTABLISHMENT

EROSION CONTROL PLAN

PATTON TOWNSHIP CENTRE COUNTY, PENNSYLVANIA



MID-PENN ENGINEERING CORPORATION

CONSULTING ENGINEERS & SURVEYORS 2049 WEST MARKET STREET LEWISBURG, PENNSYLVANIA 17837

TELEPHONE: (570) 524-2214 • WEB: www.mid-pennengineering.com JOBNO. DRAWN BY: AS NOTED 4 OF 4

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