APPENDIX G

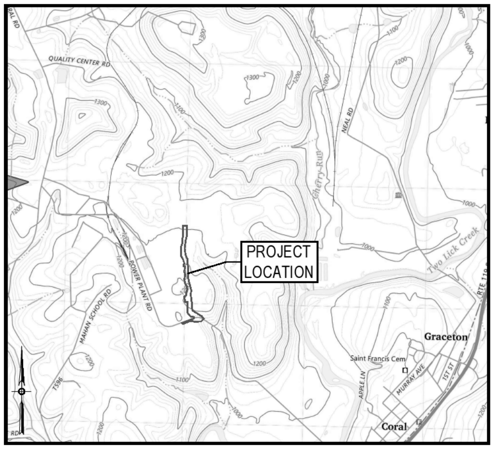
E&S Plan Drawings

POWER PLANT ROAD RELOCATION

EROSION & SEDIMENT CONTROL PLANS

HOMER CITY, PA

CENTER TOWNSHIP, INDIANA COUNTY



LOCATION MAP

INDIANA QUADRANGLE, 7.5-MINUTE SERIES

1" = 400'

JULY 02, 2025

SHEET INDEX			
EROSION AND SEDIMENT CONTROL DRAWINGS			
NO.	TITLE	SHEET	REVISION
G-001-1001	E&S COVER SHEET	1	A
G-001-1002	GENERAL NOTES	1	A
C-744-1001	OVERALL EXISTING CONDITIONS PLAN	1	A
C-744-3001	OVERALL EROSION & SEDIMENT CONTROL PLAN	1	A
C-744-3002	ROADWAY EROSION & SEDIMENT CONTROL PLANS	1	A
C-744-3002	ROADWAY EROSION & SEDIMENT CONTROL PLANS	2	A
C-744-3002	ROADWAY EROSION & SEDIMENT CONTROL PLANS	3	A
C-744-3002	ROADWAY EROSION & SEDIMENT CONTROL PLANS	4	A
C-744-3201	ROADWAY PROFILES	1	A
C-744-3202	ROADWAY PROFILES	1	A
C-744-3203	ROADWAY PROFILES	1	A
C-744-3204	CHANNEL PROFILES	1	A
C-744-3205	CHANNEL PROFILES	1	A
C-744-3206	CULVERT PROFILES	1	A
C-744-3501	E&S NOTES & DETAILS	1	A
C-744-3502	E&S NOTES & DETAILS	1	A
C-744-3503	E&S NOTES & DETAILS	1	A
C-744-3504	E&S NOTES & DETAILS	1	A
C-744-3505	E&S NOTES & DETAILS	1	A

COMMONWEALTH OF PENNSYLVANIA
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NICOLAS THOMAS SLATER
ENGINEER
PE095171

07/23/2025

MICHAEL BAKER INTERNATIONAL, LLC
100 AIRSIDE DRIVE
MOON TOWNSHIP, PA 15108

HOMER CITY STATION
1750 POWER PLANT ROAD
HOMER CITY, PA 15748

DWG. TYPE: GENERAL

TITLE: E&S COVER SHEET

PROJECT NAME: POWER PLANT ROAD RELOCATION

REV	DATE	MADE	ENGR	SUPV/MGR
A	07/02/25	MM	NS	EZ

MICHAEL BAKER INTERNATIONAL, LLC

SCALE	PROJECT NO.	DRAWING NUMBER	SHEET	REV
NTS	PPRR1	G-001-1001	1	A

GENERAL NOTES:

1. UTILITIES. THE CONTRACTOR IS HEREBY INFORMED THAT THE LOCATION OF UTILITIES AS SHOWN ON THE CONTRACT DRAWINGS IS BASED UPON AVAILABLE INFORMATION ONLY. NO GUARANTEE OR ASSURANCE IS GIVEN BY THE OWNER OR ENGINEER AS TO THEIR ACCURACY, COMPLETENESS OR VALIDITY.

   THE CONTRACTOR IS REQUIRED TO VERIFY THE EXISTENCE AND LOCATION OF UTILITIES IN THE WORK AREA BY CONTACTING BOTH THE PENNSYLVANIA ONE-CALL SYSTEM AT 1-800-242-1776 AND THE BELOW LISTED UTILITY COMPANIES KNOWN TO HAVE FACILITIES LOCATED WITHIN THE PROJECT WORK AREA.

2. INSPECTIONS. THIS PROJECT IS SUBJECT TO INSPECTIONS BY THE OWNER, THE ENGINEER, THE PENNSYLVANIA DEPARTMENT OF ENVIRONMENTAL PROTECTION, AND OTHERS THE OWNER MAY DESIGNATE. THE CONTRACTOR WILL COOPERATE IN ACCOMMODATING THESE INSPECTIONS BY PERMITTING ACCESS TO THE WORK SITE AND ACCESS TO PROJECT RECORDS AND FILES.

3. PERMITS. THE CONTRACTOR IS REQUIRED TO OBTAIN ALL PERMITS FOR: STREET OPENINGS, UTILITY RELOCATIONS, TEMPORARY UTILITIES, SANITARY FACILITIES, HAZARDOUS AND NON-HAZARDOUS WASTE DISPOSAL, STREET USE, OVERSIZE LOADS, WATER USAGE AND ANY OTHER PERMITS NECESSARY FOR THE WORK DESCRIBED HEREIN AND PAY THE FEES THEREOF.

4. DISPOSAL AREA. THE CONTRACTOR IS RESPONSIBLE FOR OBTAINING A LEGAL OFF-SITE DISPOSAL AREA FOR ALL DEBRIS AND WASTE MATERIALS. THIS SHALL BE PERFORMED AT NO ADDITIONAL PAYMENT.

5. CONSTRUCTION LIMITS. THE CONTRACTOR SHALL CONFINE MATERIALS, EQUIPMENT, AND WORK ACTIVITIES TO WITHIN DESIGNATED CONSTRUCTION LIMITS AND PUBLIC RIGHTS-OF-WAY. THE CONTRACTOR IS FULLY RESPONSIBLE FOR ALL WORK AND DAMAGE OCCURRING OUTSIDE OF THE CONSTRUCTION LIMITS AND RIGHTS-OF-WAY AND SHALL REPAIR THE SAME TO THE SATISFACTION OF THE OWNER. CONTRACTOR SHALL COMPLETE SITE CLEANUP TO THE SATISFACTION OF THE OWNER.

6. ROAD CONSTRUCTION. WHERE PROPOSED ROAD CONSTRUCTION MEETS EXISTING PAVEMENTS, THE LINE AND GRADE OF THE PROPOSED ROAD CONSTRUCTION SHALL BE ADJUSTED AS REQUIRED TO PROVIDE A SMOOTH TRANSITION HORIZONTALLY AND VERTICALLY TO MEET THE EXISTING ROAD SECTION OR AS DIRECTED BY THE OWNER.

7. CONNECTION TO EXISTING FACILITIES. THE DETAILS, DIMENSIONS AND ELEVATIONS SHOWN REGARDING EXISTING FACILITIES ARE BASED ON FIELD SURVEY INFORMATION AND RECORDS PROVIDED BY FACILITY OWNERS. IT IS THE CONTRACTOR'S RESPONSIBILITY TO THOROUGHLY VERIFY ALL RELEVANT DIMENSIONS IN THE FIELD PRIOR TO BEGINNING ANY CONSTRUCTION ACTIVITIES. THE OWNER AND ENGINEER SHALL IMMEDIATELY BE NOTIFIED OF ANY VARIATIONS FOUND WHICH MAY RESULT IN CHANGES OR ADJUSTMENTS TO THE DESIGN AS PRESENTED IN THE THE ORIGINAL CONTRACT DRAWINGS AND/OR SPECIFICATIONS. THE CONTRACTOR SHALL SUBMIT, FOR THE OWNER AND ENGINEER'S APPROVAL, A DETAILED PLAN OF ANY ADJUSTMENTS WHICH MAY BE REQUIRED AS A RESULT OF ACTUAL FIELD CONDITIONS.

8. MAINTAINING ACCESS. THE CONTRACTOR IS REQUIRED TO MAINTAIN REASONABLE ACCESS TO EXISTING RESIDENCES IN THE VICINITY OF THE SITE. AT THE END OF THE WORK DAY, THE SITE MUST BE FULLY SECURED.

9. SOIL EROSION & SEDIMENT CONTROL. THE CONTRACTOR IS REQUIRED TO MAINTAIN ALL SOIL EROSION & SEDIMENT CONTROL (SESC) DEVICES AS REQUIRED BY THE CONTRACT DOCUMENTS. ALL (SESC) DEVICES SHALL BE CHECKED BY THE CONTRACTOR AFTER EACH RAINFALL EVENT TO ASSURE PROPER PERFORMANCE. NO (SESC) DEVICES WILL BE REMOVED WITHOUT PRIOR WRITTEN APPROVAL OF THE GOVERNING AGENCY AND THE OWNER.

10. PROTECTION OF ADJACENT FACILITIES. THE CONTRACTOR IS REQUIRED TO PROTECT ADJACENT STRUCTURES, UTILITIES AND OTHER FACILITIES FROM DAMAGE BY PROVIDING SHEETING, SHORING, UNDERPINNING OR OTHER SUPPORT AS DEEMED NECESSARY.

LEGEND

LIMIT OF DISTURBANCE	LOD
UTILITY EASEMENT LINE	
PROPERTY LINE	
EXISTING MAJOR CONTOUR	1210
EXISTING MINOR CONTOUR	
EXISTING COMM LINE	Cux
EXISTING GAS LINE	Gx
EXISTING OVERHEAD ELECTRIC LINE	Ex
EXISTING UNDERGROUND ELECTRIC LINE	Eux
EXISTING SANITARY	SSx
EXISTING SANITARY FORCEMAIN	FMx
EXISTING WATERLINE	Wx
EXISTING GAS WELL	
EXISTING SANITARY MANHOLE	Sx
EXISTING ELECTRICAL TRANSFORMER	
MISCELLANEOUS SURVEYED ITEM	
EXISTING WATER METER	
EXISTING INLET	
EXISTING UTILITY POLE	
EXISTING PAVED ROADWAY	
EXISTING GRAVEL ROADWAY	
EXISTING RAILROAD	
EXISTING STREAM CENTERLINE	
EXISTING DELINEATED WETLAND	
FEMA FLOODWAY BOUNDARY	
EXISTING TREE LINE	
PROPOSED MAJOR CONTOUR	
PROPOSED MINOR CONTOUR	1210
ELEVATION POINT	988.00
E&S CONTROL BLANKET	
ASPHALT PAVEMENT	
COMPOST FILTER SOCK	FS
ROCK FILTER	
ROCK CONSTRUCTION ENTRANCE	
PROPOSED SANITARY SEWER	SS
PROPOSED SANITARY MANHOLE	
PROPOSED LEACHATE FORCEMAIN	FM
ORANGE SAFETY FENCE	

DEMOLITION NOTES:

1. THE CONTOURS SHOWN ON THE PLANS ARE BASED ON AVAILABLE PASDA CONTOUR INFORMATION AND SHOULD BE CONSIDERED APPROXIMATE.

2. THE LOCATION AND/OR ELEVATION OF EXISTING UTILITIES AS SHOWN ON THESE PLANS IS BASED ON RECORDS FROM THE PROPERTY RECORD DRAWINGS. INFORMATION REGARDING THE REPORTED PRESENCE, SIZE, CHARACTER, AND LOCATION OF EXISTING UNDERGROUND UTILITIES HAS BEEN SHOWN ON THE CONSTRUCTION DRAWINGS AND RECORDED AS SUCH IN GOOD FAITH. THE INFORMATION IS NOT TO BE RELIED ON AS BEING EXACT OR COMPLETE. THE CONTRACTOR SHALL BE RESPONSIBLE TO VERIFY THE LOCATIONS AND DEPTHS OF ALL UNDERGROUND UTILITIES PRIOR TO THE START OF CONSTRUCTION (PA ONE CALL). THE CONTRACTOR SHALL COORDINATE HIS CONSTRUCTION ACTIVITIES WITH UTILITY COMPANIES AS NECESSARY. THE CONTRACTOR SHALL ASSUME FULL RESPONSIBILITY FOR ANY UTILITIES DAMAGED IN THE PROCESS OF HIS WORK, AND SHALL REPAIR, OR PAY FOR THE REPAIR OF, ANY DAMAGED UTILITY TO THE SATISFACTION OF THE OWNER.

3. THE CONTRACTOR IS RESPONSIBLE, PRIOR TO CONSTRUCTION, FOR VERIFYING THE ACCURACY OF THE TOPOGRAPHY AND SUBSURFACE INFORMATION FOR THE PURPOSE OF CALCULATING QUANTITIES. IF ANY DISCREPANCIES ARE FOUND IN THE SURVEY OR GEOTECHNICAL REPORTS, THE ENGINEER SHALL BE NOTIFIED IMMEDIATELY. ONCE THE CONTRACTOR PROCEEDS WITH ANY LAND DISTURBANCE ACTIVITIES, THIS ACTION SHALL BE TAKEN AS ACCEPTANCE BY THE CONTRACTOR THAT THE SURVEY AND GEOTECHNICAL REPORTS DEPICT THE EXISTING CONDITIONS OF THE SITE TO THE CONTRACTOR'S SATISFACTION. LATER CLAIMS BY THE CONTRACTOR RELATING TO INACCURACIES IN THE EXISTING TOPOGRAPHY OR GEOTECHNICAL INFORMATION SHALL NOT BE ACCEPTED AND RELATED CONSTRUCTION CLAIMS SHALL NOT BE ALLOWED.

4. CONTRACTOR IS RESPONSIBLE FOR ANY DAMAGED UTILITY THAT IS TO REMAIN.

5. PROTECT EXISTING UTILITIES TO REMAIN. THESE UTILITIES SHALL NOT BE DISTURBED.

6. ALL UTILITY SERVICE LINES SHALL BE REMOVED AS NOTED PER DETAILS AND SPECIFICATIONS OF THE CORRESPONDING UTILITY COMPANY.

7. ALL UTILITY DEMOLITION/REMOVAL SHALL BE COORDINATED WITH CORRESPONDING UTILITY COMPANY SO NO UTILITY INTERRUPTIONS OCCUR.

8. EXISTING UTILITIES SHALL BE COMPLETELY REMOVED WHEN INSIDE OR WITHIN FIFTEEN (15) FEET OF WHERE THEY INTERFERE WITH CONSTRUCTION OF PROPOSED UTILITIES OR FALL LESS THAN THREE (3) FEET FROM EXISTING OR PROPOSED GRADES (WHICH EVER IS DEEPER). ALL REMAINING ON-SITE UTILITY SERVICES SHALL BE ABANDONED IN PLACE. ALL EXISTING UTILITY SERVICES ON-SITE TO BE DISCONNECTED OR REMOVED, RELOCATED, CUT, CAPPED AND/OR ABANDONED SHALL BE COORDINATED WITH THE APPROPRIATE UTILITY COMPANY. ALL ABANDONED UTILITY STRUCTURES (I.E. MANHOLES, PULL BOXES, INLETS, ETC.) SHALL BE BACKFILLED WITH #57 AGGREGATE AND COMPACTED PER SPECIFICATIONS.

9. ALL PAVEMENT SAW CUTS SHALL BE STRAIGHT, VERTICAL, SMOOTH AND CLEAN CUTS.

10. THE CONTRACTOR SHALL NOTIFY THE PENNSYLVANIA ONE CALL SYSTEM NOT LESS THAN TEN (10) DAYS PRIOR TO THE BEGINNING OF WORK. THE CONTRACTOR SHALL PLACE THE CALL AND PROVIDE TO THE OWNER OR THE OWNER'S REPRESENTATIVE THE TIME AND DATE THAT THE CALL WAS MADE AS WELL AS THE PENNSYLVANIA ONE CALL SYSTEM SERIAL NUMBER.

11. THE CONTRACTOR SHALL COORDINATE ALL DEMOLITION OPERATIONS WITH DEMOLITION PLANS, SPECIFICATIONS AND LOCAL UTILITY COMPANIES.

12. CONTRACTOR SHALL ADHERE TO ALL LOCAL, STATE, FEDERAL AND OSHA REGULATIONS DURING ALL CONSTRUCTION ACTIVITIES.

13. CONTRACTOR SHALL PROTECT ALL CORNER PINS, MONUMENTS, PROPERTY CORNERS AND BENCHMARKS DURING CONSTRUCTION ACTIVITIES. IF DISTURBED, CONTRACTOR SHALL HAVE DISTURBED ITEMS RESET BY A LICENSED SURVEYOR AT NO ADDITIONAL COST TO THE OWNER.

14. THE CONTRACTOR WILL CONFINE ALL WORK TO WITHIN THE DESIGNATED CONTRACT LIMITS FOR THE PROJECT. THE CONTRACTOR WILL BE RESPONSIBLE FOR DAMAGES RESULTING FROM OPERATIONS CARRIED OUT IN LOCATIONS OUTSIDE OF THE WORK AREA. ANY DISRUPTIONS SHALL BE COORDINATED WITH THE CONSTRUCTION MANAGER.

15. ALL BUILDINGS AND CORRESPONDING FOUNDATIONS SHALL BE REMOVED FROM THE SITE UNLESS THEY ARE NOTED AS TO REMAIN. BASEMENTS SHALL BE BACKFILLED WITH CLEAN FILL MATERIAL AND COMPACTED ACCORDING TO PROJECT SPECIFICATIONS.

16. TIMBER AND TREES THAT CAN BE SOLD WILL BE REMOVED FROM THE SITE. ALL REMAINING TIMBER WILL BE CHIPPED. BURNING IS NOT PERMITTED.

SANITARY UTILITY NOTES:

1. ALL SANITARY SEWER LINE AND ASSOCIATED DEVICES WORK MUST BE COORDINATED WITH THE UTILITY OWNER.

2. ALL SANITARY SEWER BUILDING CONNECTIONS ARE TO BE MADE USING 6.00 INCH LINES UNLESS INDICATED OTHERWISE.

3. ALL SANITARY LINES ARE TO BE LAID AT A UNIFORM SLOPE FROM THE BUILDING CONNECTIONS TO THE CONNECTING SEWER AND BETWEEN UTILITY STRUCTURES.

4. SEWER LINES SHALL BE INSTALLED A MINIMUM OF 10.00 FEET HORIZONTALLY FROM ADJACENT WATER LINES UNLESS INDICATED OTHERWISE. SEE SPECIFICATIONS FOR ADDITIONAL CLEARANCE REQUIREMENTS FOR SANITARY PIPING.

5. SEWER LINES SHALL BE INSTALLED BELOW WATER LINES WITH A MINIMUM VERTICAL SEPARATION OF 18 INCHES UNLESS INDICATED OTHERWISE. WHERE SANITARY SEWER WILL BE INSTALLED ABOVE WATER LINES, IT SHALL BE ENCASED. SEE DETAILS.

6. IF MANHOLES ARE INDICATED ON SANITARY LINES, A 2.00 INCH DROP IN ELEVATION BETWEEN THE INCOMING AND OUTGOING SEWER SHALL BE PROVIDED IN EACH MANHOLE UNLESS INDICATED OTHERWISE. FOR 90°-TYPE MANHOLE ORIENTATIONS, THE MINIMUM DROP ACROSS MANHOLE CHANNELS IS 1.20 INCHES. INVERT FLOW CHANNELS SHALL BE CONSTRUCTED TO PROVIDE SMOOTH AND UNIFORM SLOPE WITH GRADUAL TRANSITION SECTIONS.

7. CONTRACTOR SHALL BE RESPONSIBLE FOR ANY NECESSARY BYPASSING OR TANKER TRUCKS NEEDED DURING SANITARY SEWER INSTALLATION TO ENSURE CONTINUOUS SERVICE.

8. ALL EXISTING STRUCTURES TO REMAIN THAT ARE BEING ALTERED OR ADJUSTED SHALL BE INSPECTED PRIOR TO WORK. STRUCTURES SHALL BE REPLACED IF THE STRUCTURE IS IN POOR CONDITION.

UTILITY STRUCTURE NOTES:

1. ALL UTILITY STRUCTURES ARE TO BE HL-93 RATED UNLESS INDICATED OTHERWISE.

2. MANHOLE RIM ELEVATIONS SHALL BE FLUSH WITH ADJACENT FINAL OR EXISTING GRADE ACCORDING TO THE PROVIDED STORM PROFILES AND STRUCTURE TABLES.

3. COVERS AND CASTINGS OF MANHOLES AND STRUCTURES SHALL BE STAMPED PER THE APPROPRIATE UTILITY TYPE OR PER THE LOCAL STANDARDS.

4. COVERS AND CASTINGS SHALL BE TAMPER-PROOF FOR STRUCTURES LOCATED IN PEDESTRIAN AREAS, EASEMENT AREAS, AND AREAS WITH SPECIAL SECURITY RESTRICTIONS.

5. ANY LIFT LOOPS FOR UTILITY STRUCTURES SHALL BE GROUTED FLUSH AFTER INSTALLATION.

6. PIPE MAY EXTEND 2 INCHES MAXIMUM BEYOND INTERIOR MANHOLE WALL.

COMMONWEALTH OF PENNSYLVANIA
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PE095171
07/28/2025

PENNSYLVANIA ACT 38 (AMENDING ACT 172)

Requires three (3) working days notification to utility companies prior to any digging, drilling, blasting or excavating. Contractor shall contact:

PA ONE-CALL
1-800-242-1776
prior to start of work.

Existing utilities have been plotted from available information and the locations must be considered approximate. Other utilities may exist which are not shown. It shall be the Contractor's responsibility to ascertain the physical location of all utility lines prior to the start of construction.

PROJECT SERIAL NUMBER:

REV	DATE	MADE	ENGR	SUPV/MGR
A	07/02/25	MM	NS	EZ

MICHAEL BAKER INTERNATIONAL, LLC

Michael Baker INTERNATIONAL

MICHAEL BAKER INTERNATIONAL, LLC
100 AIRSIDE DRIVE
MOON TOWNSHIP, PA 15108

HOMER CITY STATION
1750 POWER PLANT ROAD
HOMER CITY, PA 15748

DWG. TYPE: GENERAL

TITLE: GENERAL NOTES

PROJECT NAME: POWER PLANT ROAD RELOCATION

SCALE	PROJECT NO.	DRAWING NUMBER	SHEET	REV
NTS	PPRR1	G-001-1002	1	A

COMMONWEALTH OF PENNSYLVANIA
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NICOLAS THOMAS SLATER
ENGINEER
PE095171
07/23/2025

HOMER CITY CONTROL TABLE			
POINT NO.	NORTHING	EASTING	ELEVATION
HCC 9	431650.070	1598159.880	1196.630
HCC 10	432465.440	1598582.410	1211.900
HCC 20	433985.344	1598979.879	1209.931
HCC 21	434087.770	1599841.610	1232.837
HCC 26	433599.250	1600576.460	1129.410
HCC 27	433128.660	1601233.480	1039.880

NOTES

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2. EXISTING CONDITIONS ARE BASED ON AVAILABLE PASDA CONTOUR INFORMATION AND SHOULD BE CONSIDERED APPROXIMATE.
3. EXISTING STREAMS AND WETLANDS WERE DELINEATED BY MICHAEL BAKER INTERNATIONAL, INC IN JUNE 2024.
4. HORIZONTAL DATUM IS BASED ON HOMER CITY STATION GRID SYSTEM.

0' 150 300 450
Scale in Feet

REV	DATE	MADE	ENGR	SUPV/MGR
A	07/02/25	MM	NS	EZ

MICHAEL BAKER INTERNATIONAL, LLC

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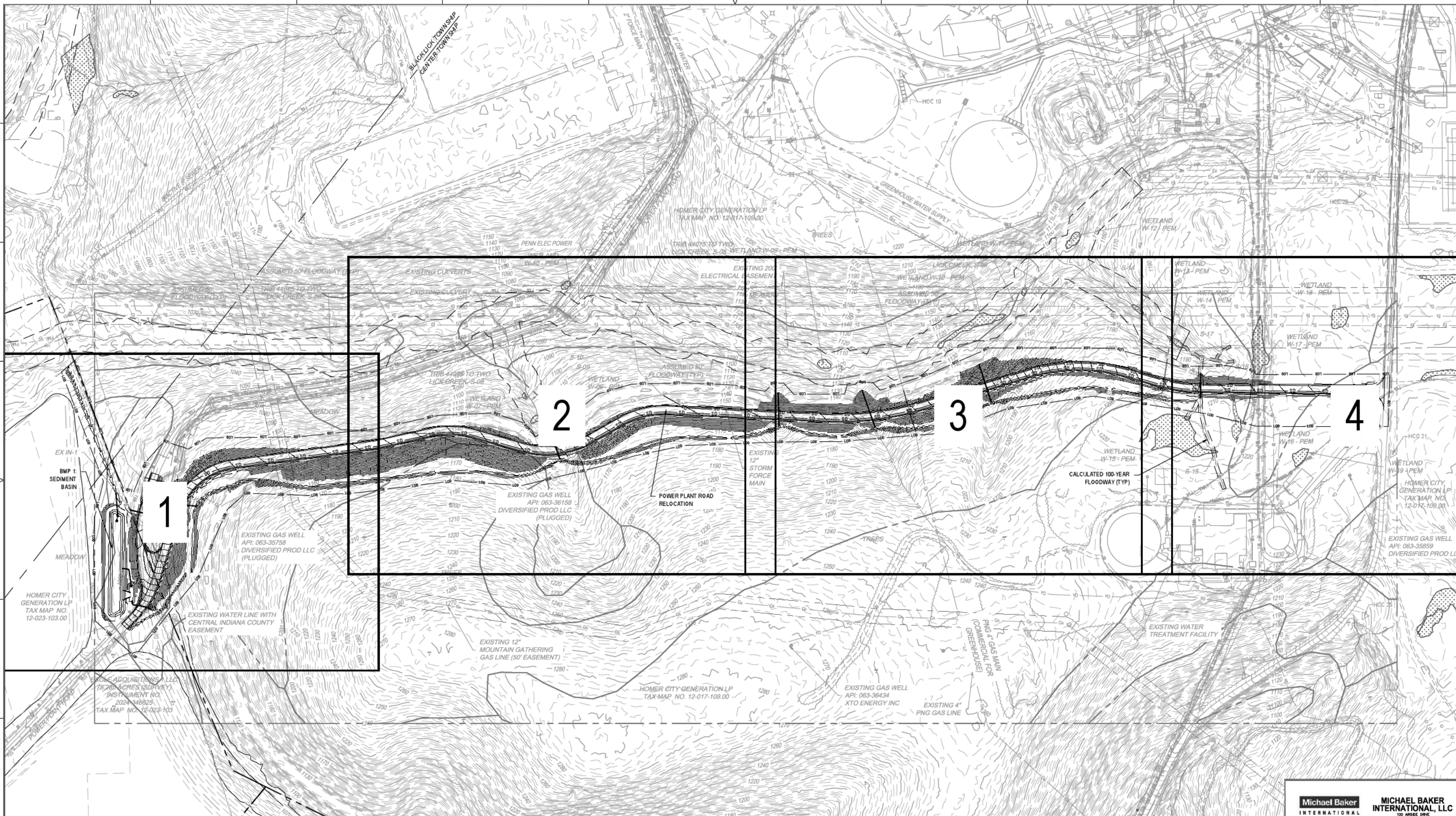
HOMER CITY STATION
1750 POWER PLANT ROAD
HOMER CITY, PA 15748

DWG. TYPE: CIVIL
TITLE: OVERALL EXISTING CONDITIONS PLAN
PROJECT NAME: POWER PLANT ROAD RELOCATION

SCALE	PROJECT NO.	DRAWING NUMBER	SHEET	REV
1"=150'	PPRR1	C-744-1001	1	A

HOMER CITY CAD FILE: \\MOONPA1CL1\LD&I\HOMER CITY GENERATING STATION\202965 – POWER PLANT ROAD RELOCATION\05_DELIVERABLES\DRAWINGS\05 C_CIVIL\SHEET FILES\202965_CV100.DWG PLOT DATE:7/9/2025 11:09 AM



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0' 150 300 450
Scale in Feet

REV	DATE	MADE	ENGR	SUPV/MGR
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HOMER CITY, PA 15748

DWG. TYPE: CIVIL
TITLE: OVERALL EROSION & SEDIMENT CONTROL PLAN
PROJECT NAME: POWER PLANT ROAD RELOCATION

SCALE	PROJECT NO.	DRAWING NUMBER	SHEET	REV
1" = 150'	PPRR1	C-744-3001	1	A

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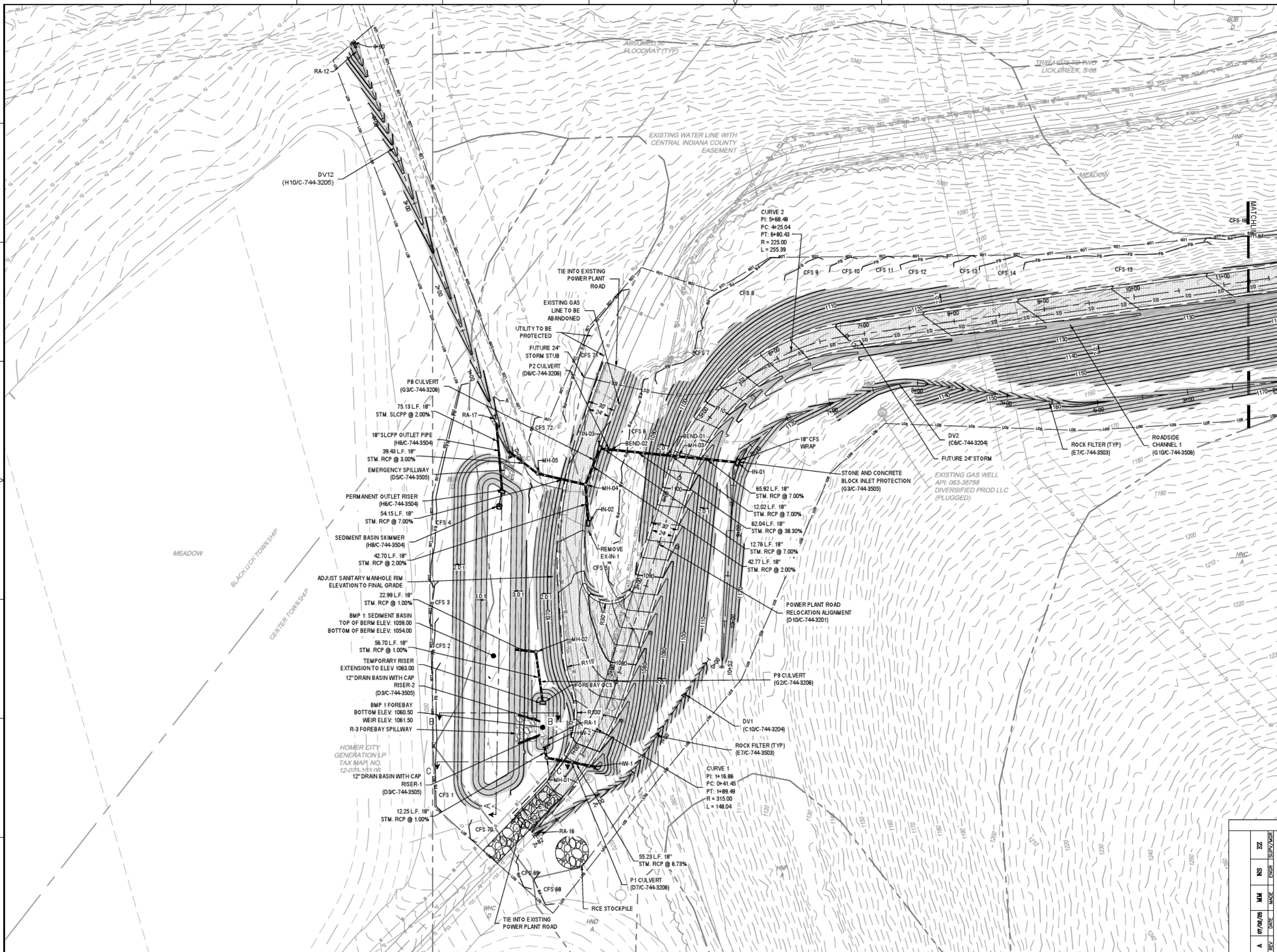

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COMMONWEALTH OF PENNSYLVANIA
REGISTERED PROFESSIONAL ENGINEER
NICOLAS THOMAS SLATER
PE095171
07/23/2025

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HOMER CITY STATION
1750 POWER PLANT ROAD
HOMER CITY, PA 15748

DWG. TYPE: CIVIL

TITLE: ROADWAY EROSION & SEDIMENT CONTROL PLANS

PROJECT NAME: POWER PLANT ROAD RELOCATION

SCALE	PROJECT NO.	DRAWING NUMBER	SHEET	REV
1" = 50'	PPRR1	C-744-3002	1	A

REV	DATE	MADE	ENGR	SUPV/MGR
A	07/02/25	MM	NS	EZ

MICHAEL BAKER INTERNATIONAL, LLC

HOMER CITY CAD FILE: \\MOONPA1CL1\LD&I\HOMER CITY GENERATING STATION\202965 – POWER PLANT ROAD RELOCATION\05_DELIVERABLES\DRAWINGS\05 C_CIVIL\SHEET FILES\202965_CE1XX.DWG PLOT DATE:7/21/2025 1:12 PM

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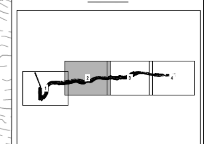
COMMONWEALTH OF PENNSYLVANIA
REGISTERED PROFESSIONAL ENGINEER
NICOLAS THOMAS SLATER
PE085171
07/23/2025

KEY PLAN



0' 50' 100' 150'

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HOMER CITY, PA 15748

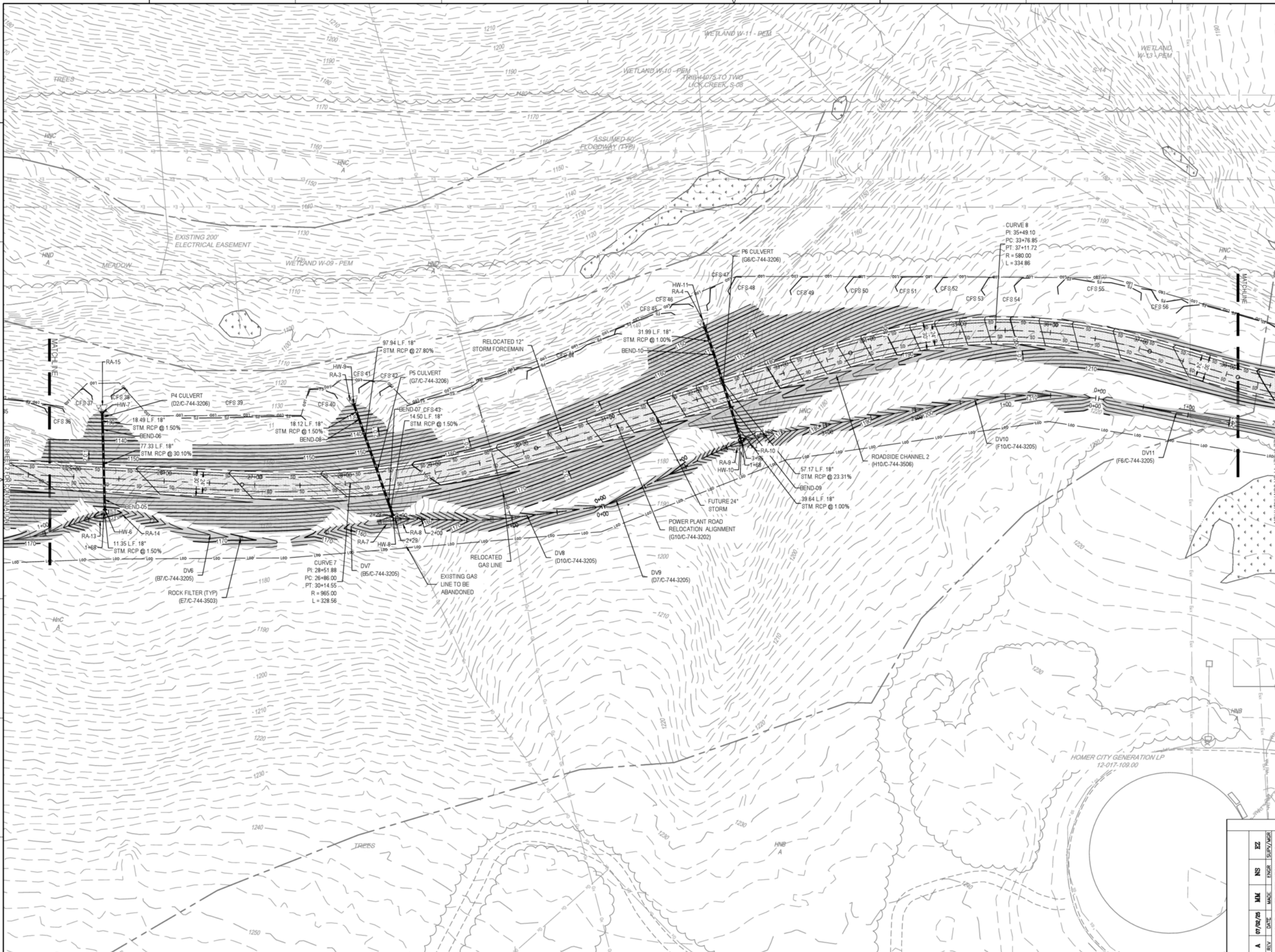
DWG. TYPE:	CIVIL
TITLE:	ROADWAY EROSION & SEDIMENT CONTROL PLANS
PROJECT NAME:	POWER PLANT ROAD RELOCATION

SCALE	PROJECT NO.	DRAWING NUMBER	SHEET	REV
1" = 50'	PPRR1	C-744-3002	2	A

REV	DATE	MADE	ENGR	SUPV/MGR
A	07/02/25	MM	NS	EZ

MICHAEL BAKER INTERNATIONAL, LLC

HOMER CITY CAD FILE: \\MOONPA1CL1\LD&I\HOMER CITY GENERATING STATION\202965 – POWER PLANT ROAD RELOCATION\05_DELIVERABLES\DRAWINGS\05 C_CIVIL\SHEET FILES\202965_CE1XX.DWG PLOT DATE:7/21/2025 1:12 PM



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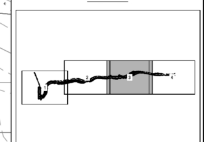
KEY PLAN



0' 50' 100' 150'
Scale in Feet

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100 AIRSIDE DRIVE
MOON TOWNSHIP, PA 15108

HOMER CITY STATION
1750 POWER PLANT ROAD
HOMER CITY, PA 15748

REV	DATE	MADE	ENGR	SUPV/MGR
A	07/02/25	MM	NS	EZ

MICHAEL BAKER INTERNATIONAL, LLC

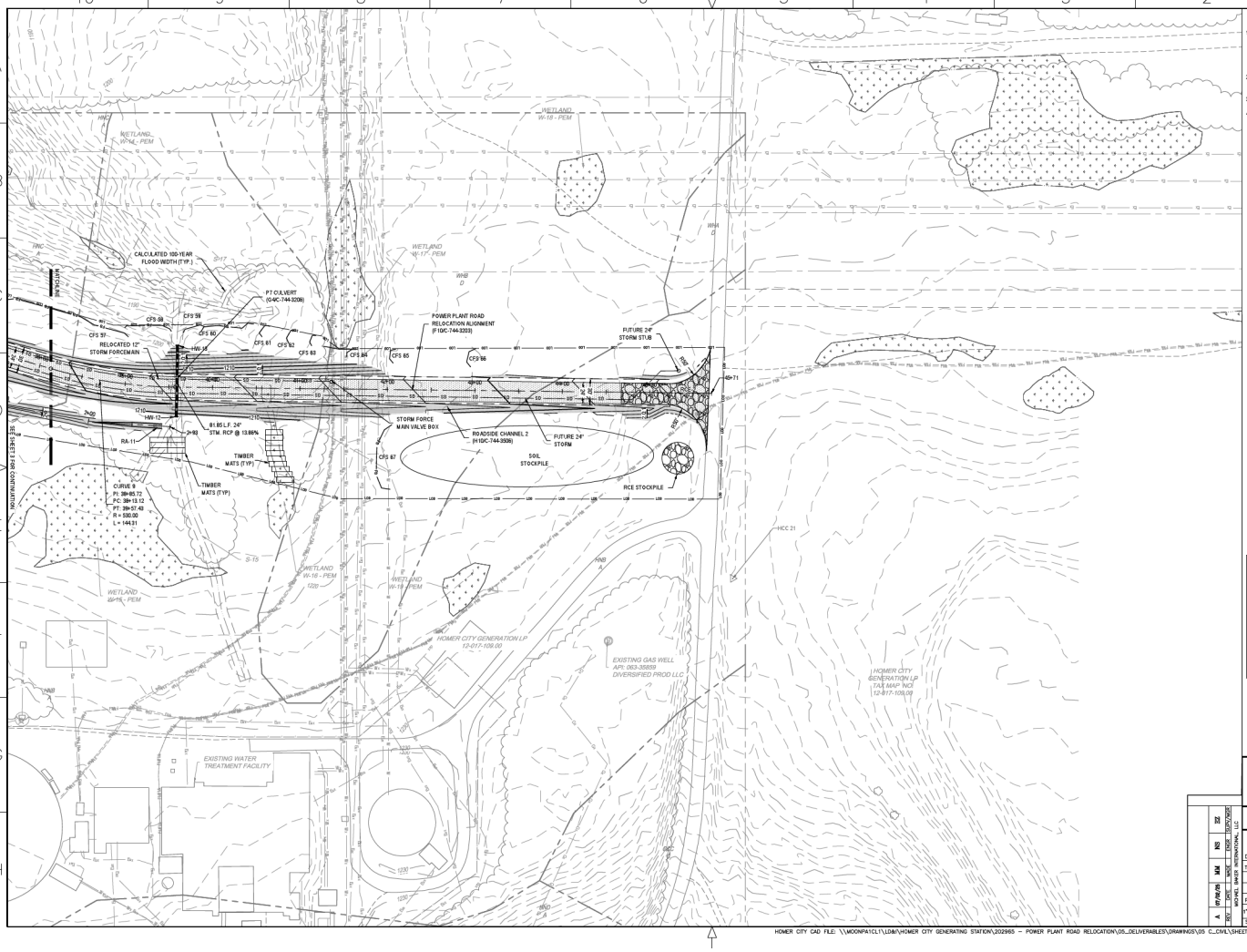
DWG. TYPE: CIVIL

TITLE: ROADWAY EROSION & SEDIMENT CONTROL PLANS

PROJECT NAME: POWER PLANT ROAD RELOCATION

SCALE	PROJECT NO.	DRAWING NUMBER	SHEET	REV
1" = 50'	PPRR1	C-744-3002	3	A

HOMER CITY CAD FILE: \\MOONPA1CL1\LD8\HOMER CITY GENERATING STATION\202965 – POWER PLANT ROAD RELOCATION\05_DELIVERABLES\DRAWINGS\05 C_CIVIL\SHEET FILES\202965_CE1XX.DWG PLOT DATE:7/21/2025 1:12 PM

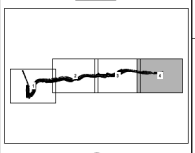


NOTES

1. EXISTING SITE, AND UTILITY INFORMATION COMPILED FROM HOMER CITY GENERATION AS-BUILTS AND PLANT DESIGN DRAWINGS. LOCATIONS OF EXISTING UTILITIES ARE APPROXIMATE AND SHOULD BE LOCATED IN THE FIELD PRIOR TO CONSTRUCTION. SURVEY OF EXISTING SITE AND UTILITY INFORMATION WAS COMPLETED ON SEPTEMBER 2, 2024.
2. EXISTING CONDITIONS ARE BASED ON AVAILABLE PASDA CONTOUR INFORMATION AND SHOULD BE CONSIDERED APPROXIMATE.
3. EXISTING STREAMS AND WETLANDS WERE DELINEATED BY MICHAEL BAKER INTERNATIONAL, INC IN JUNE 2024.
4. HORIZONTAL DATUM IS BASED ON HOMER CITY STATION GRID SYSTEM.

COMMONWEALTH OF PENNSYLVANIA
PROFESSIONAL
NICOLAS THOMAS SLATER
ENGINEER
PE084714
REGISTERED
7/21/2025

KEY PLAN



0' 50' 100' 150'
Scale in Feet

Michael Baker INTERNATIONAL
MICHAEL BAKER INTERNATIONAL, LLC
100 ARGOSY DRIVE
MOON TOWNSHIP, PA 15108

HOMER CITY STATION
1750 POWER PLANT ROAD
HOMER CITY, PA 15748

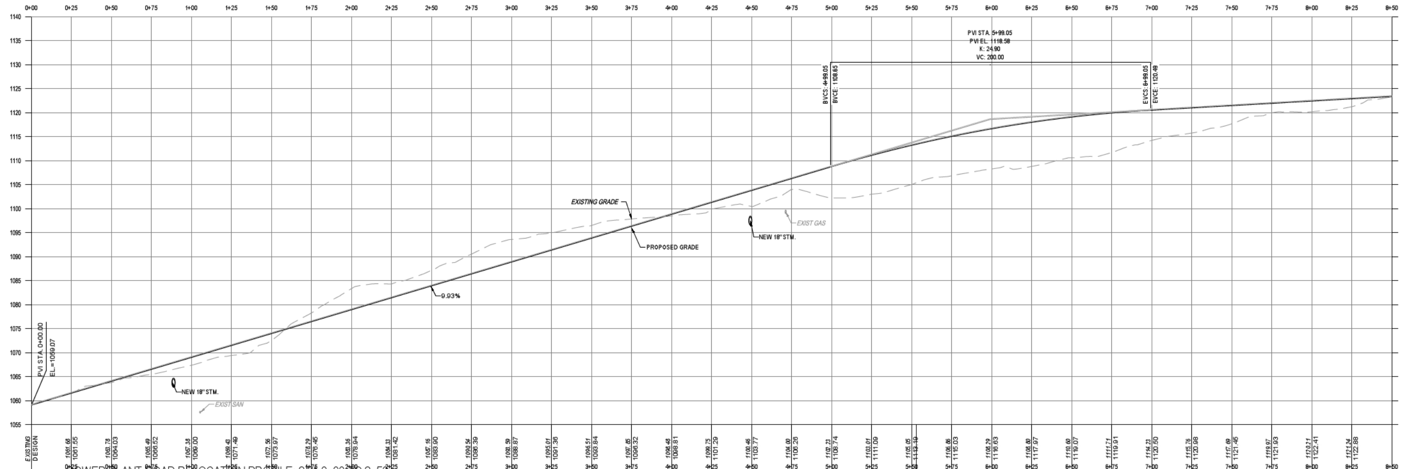
DWG. TYPE:	CIVIL
TITLE:	ROADWAY EROSION & SEDIMENT CONTROL PLANS

PROJECT NAME: POWER PLANT ROAD RELOCATION

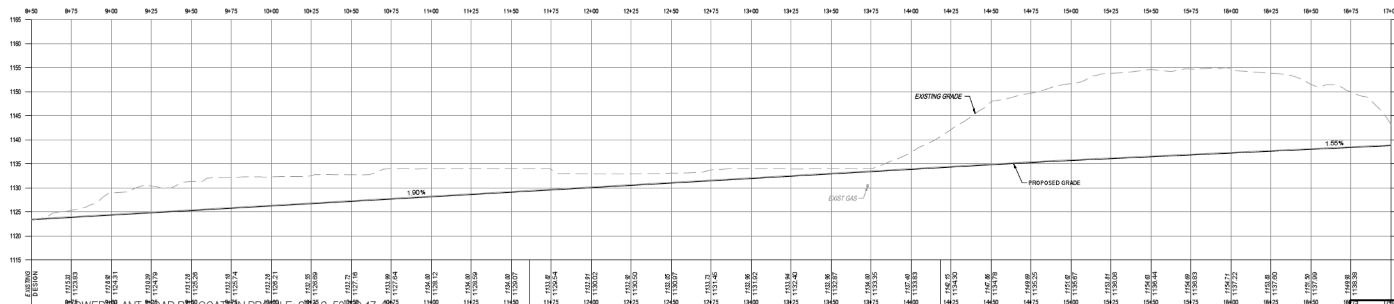
SCALE	PROJECT NO.	DRAWING NUMBER	SHEET	REV.
1" = 50'	PPRR1	C-744-3002	4	A

NO.	REVISION	DATE	BY	CHK'D	APP'D
A			MICHAEL BAKER INTERNATIONAL, LLC		

HOMER CITY CAD FILE: \\MOONPA1CL1\LD&I\HOMER CITY GENERATING STATION\202965 - POWER PLANT ROAD RELOCATION\05_DELIVERABLES\DRAWINGS\05 C_CIVIL\SHEET FILES\202965_CE1XX.DWG PLOT DATE:7/21/2025 1:12 PM



D10 POWER PLANT ROAD RELOCATION PROFILE: STA 0+00 TO 8+50



G10 POWER PLANT ROAD RELOCATION PROFILE: STA 8+50 TO 17+00

LEGEND

PROPOSED GRADE

EXISTING GRADE

Scale in Feet (Vert.) 0' 10' 20' 30'

Scale in Feet (Horiz.) 0' 30' 60 90'

COMMONWEALTH OF PENNSYLVANIA
REGISTERED PROFESSIONAL ENGINEER
NICOLAS THOMAS SLATER
PE095171
07/23/2025

REV	DATE	MADE	ENGR	SUPV/MGR
A	07/02/25	MM	NS	EZ

MICHAEL BAKER INTERNATIONAL, LLC

Michael Baker INTERNATIONAL

MICHAEL BAKER INTERNATIONAL, LLC
100 AIRSIDE DRIVE
MOON TOWNSHIP, PA 15108

HOMER CITY STATION
1750 POWER PLANT ROAD
HOMER CITY, PA 15748

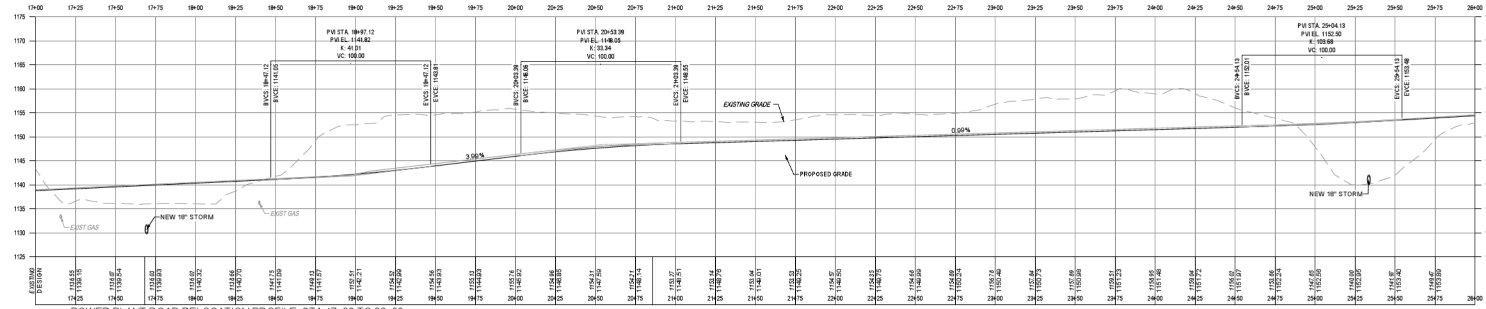
DWG. TYPE: CIVIL

TITLE: ROADWAY PROFILES

PROJECT NAME: POWER PLANT ROAD RELOCATION

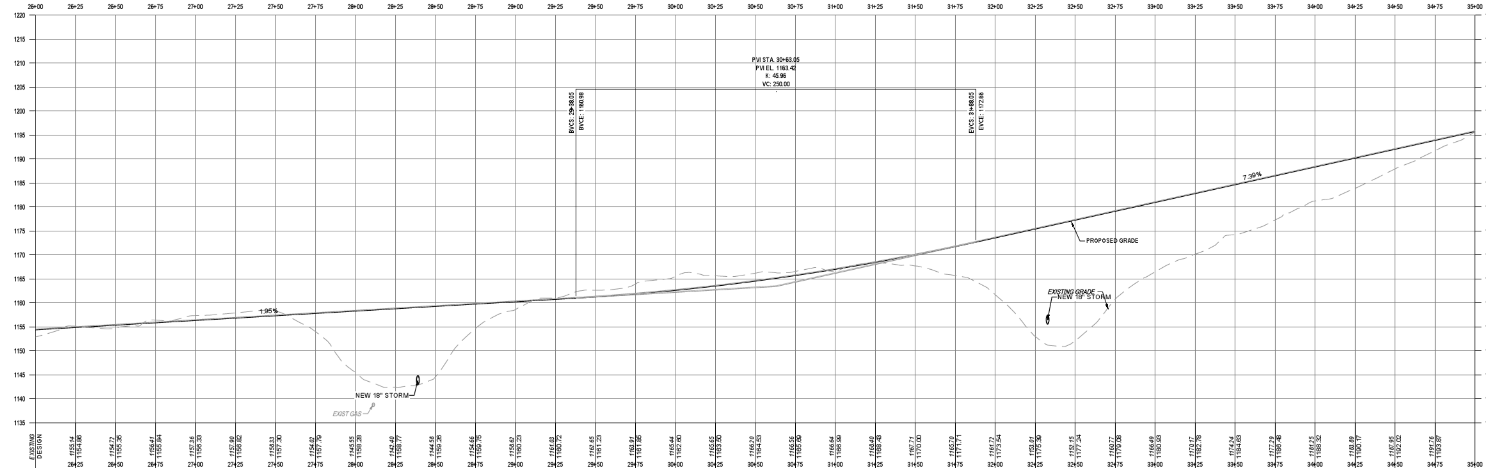
SCALE	PROJECT NO.	DRAWING NUMBER	SHEET	REV
1" = 30'	PPRR1	C-744-3201	1	A

HOMER CITY CAD FILE: \\MOONPA1CL1\LD&I\HOMER CITY GENERATING STATION\202965 – POWER PLANT ROAD RELOCATION\05_DELIVERABLES\DRAWINGS\05 C_CIVIL\SHEET FILES\202965_CS2XX.DWG PLOT DATE:7/21/2025 1:57 PM



C10 POWER PLANT ROAD RELOCATION PROFILE: STA 17+00 TO 26+00

SCALE: 1"= 30' H. 1"= 10' V.



G10 POWER PLANT ROAD RELOCATION PROFILE: STA 26+00 TO 35+00

SCALE: 1"= 30' H. 1"= 10' V.

LEGEND

PROPOSED GRADE

EXISTING GRADE

Scale in Feet (Vert.) 0' 10' 20' 30'

Scale in Feet (Horiz.) 0' 30' 60 90'

NICOLAS THOMAS SLATER — COMMONWEALTH OF PENNSYLVANIA — REGISTERED PROFESSIONAL ENGINEER PE095171

REV	DATE	MADE	ENGR	SUPV/MGR
A	07/02/25	MM	NS	EZ

MICHAEL BAKER INTERNATIONAL, LLC

MICHAEL BAKER INTERNATIONAL, LLC
100 AIRSIDE DRIVE
MOON TOWNSHIP, PA 15108

HOMER CITY STATION
1750 POWER PLANT ROAD
HOMER CITY, PA 15748

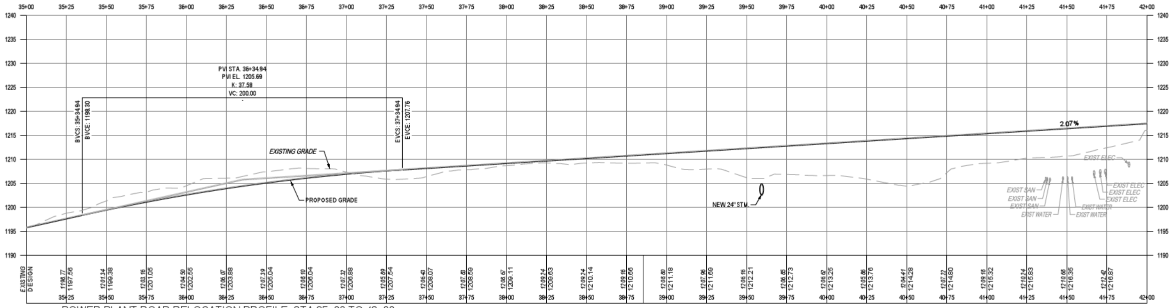
DWG. TYPE: CIVIL

TITLE: ROADWAY PROFILES

PROJECT NAME: POWER PLANT ROAD RELOCATION

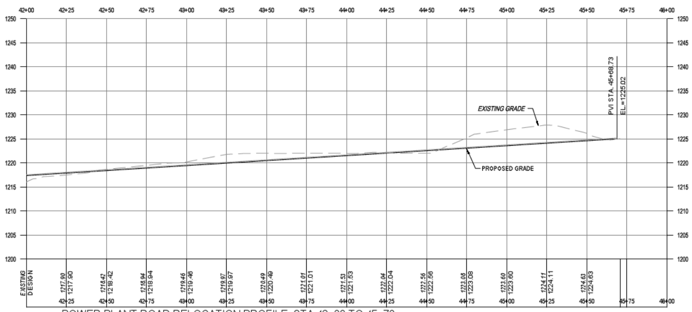
SCALE	PROJECT NO.	DRAWING NUMBER	SHEET	REV
1" = 30'	PPRR1	C-744-3202	1	A

HOMER CITY CAD FILE: \\MOONPA1CL1\LD&I\HOMER CITY GENERATING STATION\202965 – POWER PLANT ROAD RELOCATION\05_DELIVERABLES\DRAWINGS\05 C_CIVIL\SHEET FILES\202965_CS2XX.DWG PLOT DATE:7/21/2025 1:57 PM



C10 POWER PLANT ROAD RELOCATION PROFILE: STA 35+00 TO 42+00

SCALE: 1" = 30' H, 1" = 10' V.



F10 POWER PLANT ROAD RELOCATION PROFILE: STA 42+00 TO 45+70

SCALE: 1" = 30' H, 1" = 10' V.

COMMONWEALTH OF PENNSYLVANIA
REGISTERED PROFESSIONAL
NICOLAS THOMAS SLATER
ENGINEER
PE095171

LEGEND
PROPOSED GRADE
EXISTING GRADE

Scale in Feet (Vert.) 0' 10' 20' 30'

Scale in Feet (Horiz.) 0' 30' 60 90'

MICHAEL BAKER INTERNATIONAL, LLC

HOMER CITY STATION

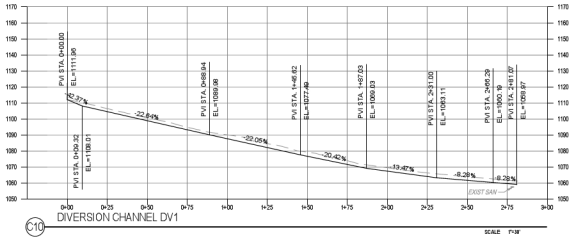
DWG. TYPE: CIVIL

TITLE: ROADWAY PROFILES

PROJECT NAME: POWER PLANT ROAD RELOCATION

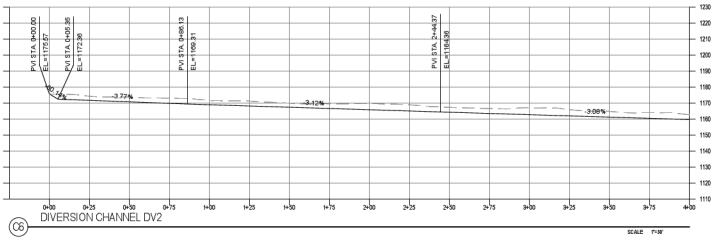
SCALE	PROJECT NO.	DRAWING NUMBER	SHEET	REV
1" = 30'	PPRR1	C-744-3203	1	A

HOMER CITY CAD FILE: \\MOONPA1CL1\LD&I\HOMER CITY GENERATING STATION\202965 - POWER PLANT ROAD RELOCATION\05_DELIVERABLES\DRAWINGS\05 C_CIVIL\SHEET FILES\202965_CS2XX.DWG PLOT DATE:7/21/2025 1:57 PM



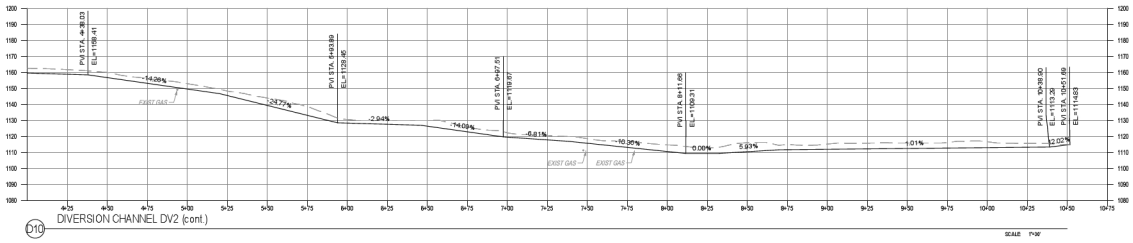
C10 DIVERSION CHANNEL DV1

SCALE 1"=30'



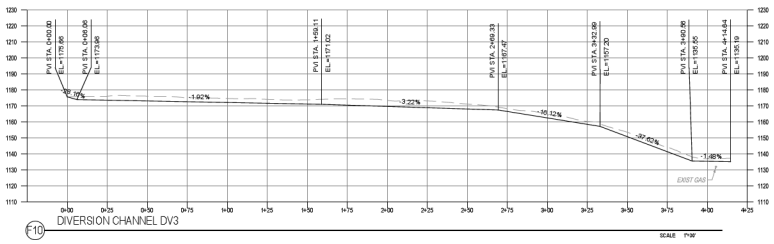
06 DIVERSION CHANNEL DV2

SCALE 1"=30'



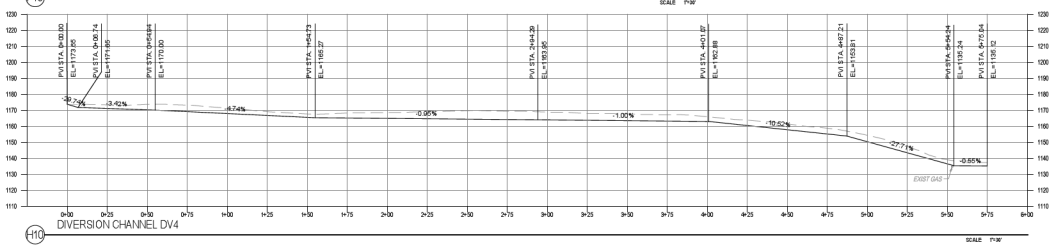
D10 DIVERSION CHANNEL DV2 (cont.)

SCALE 1"=30'



F10 DIVERSION CHANNEL DV3

SCALE 1"=30'



H10 DIVERSION CHANNEL DV4

SCALE 1"=30'

LEGEND

PROPOSED GRADE

EXISTING GRADE

0' 30' 60' 90'

Scale in Feet

COMMONWEALTH OF PENNSYLVANIA
PROFESSIONAL
NICOLAS THOMAS SLATER
ENGINEER
PE089171
PENNSYLVANIA
6/26/2025

Michael Baker INTERNATIONAL

MICHAEL BAKER INTERNATIONAL, LLC
100 AIRSIDE DRIVE
MOON TOWNSHIP, PA 15108

HOMER CITY STATION
1750 POWER PLANT ROAD
HOMER CITY, PA 15748

DWG. TYPE: CIVIL

TITLE: CHANNEL PROFILES

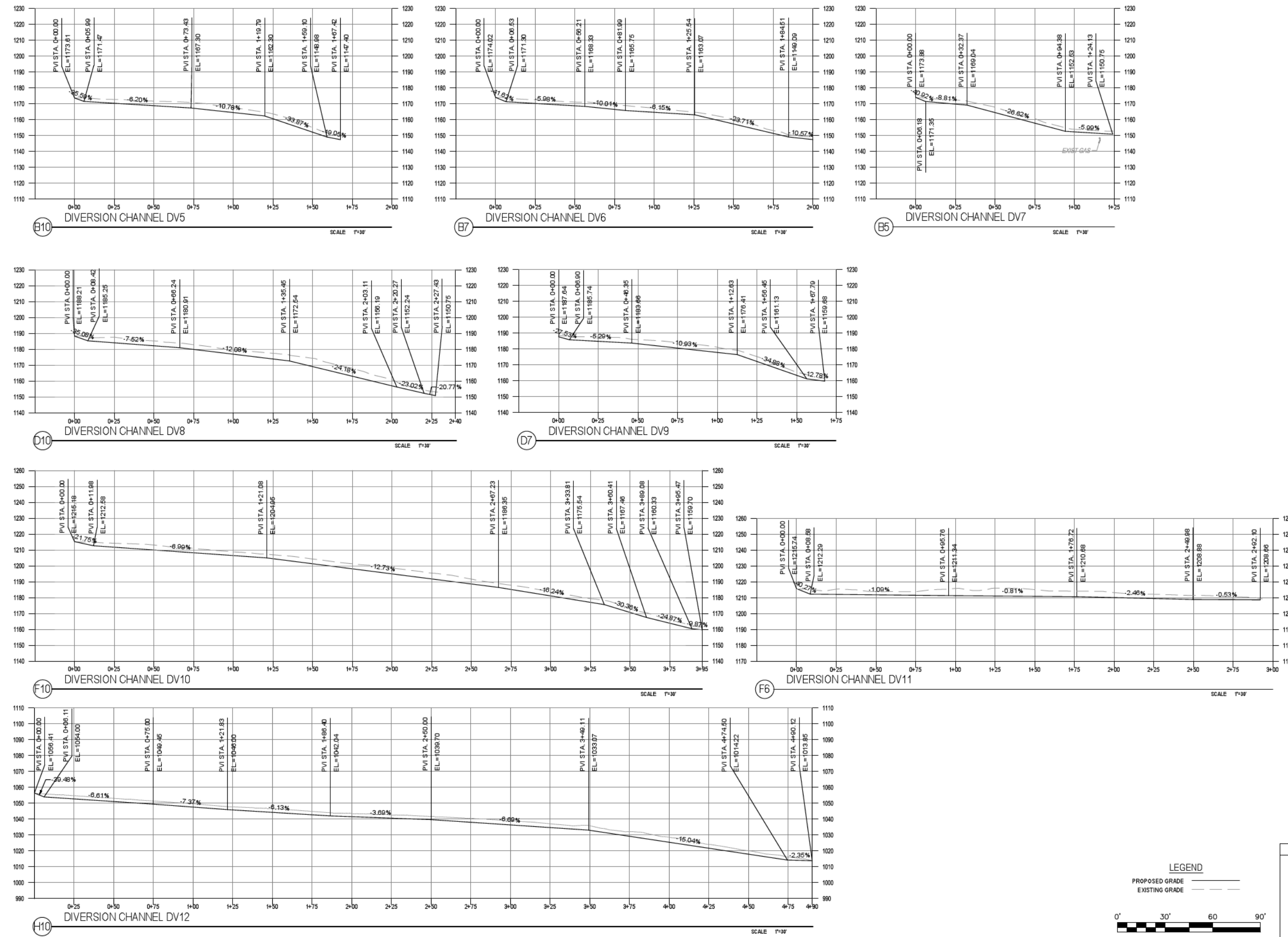
REV	DATE	BY	DESCRIPTION
A	6/27/2025	MJM	ISSUED FOR BID

MICHAEL BAKER INTERNATIONAL, LLC

PROJECT NAME: POWER PLANT ROAD RELOCATION

SCALE	PROJECT NO.	DRAWING NUMBER	SHEET	REV
1" = 30'	PPRR1	C-744-3204	1	A

HOMER CITY CAD FILE: \\MOONPA1CL1\LDAI\HOMER CITY GENERATING STATION\202965 – POWER PLANT ROAD RELOCATION\05_DELIVERABLES\DRAWINGS\05 C_CIVIL\SHEET FILES\202965_CS2XX.DWG PLOT DATE:6/27/2025 1:01 PM



LEGEND

PROPOSED GRADE

EXISTING GRADE

0' 30' 60 90'

Scale in Feet

COMMONWEALTH OF PENNSYLVANIA
REGISTERED PROFESSIONAL
NICOLAS THOMAS SLATER
ENGINEER
PE095171

07/23/2025

Michael Baker INTERNATIONAL

MICHAEL BAKER INTERNATIONAL, LLC
100 AIRSIDE DRIVE
MOON TOWNSHIP, PA 15108

HOMER CITY STATION
1750 POWER PLANT ROAD
HOMER CITY, PA 15748

REV	DATE	MADE	ENGR	SUPV/MGR
A	07/02/25	MM	NS	EZ

MICHAEL BAKER INTERNATIONAL, LLC

DWG. TYPE: CIVIL

TITLE: CHANNEL PROFILES

PROJECT NAME: POWER PLANT ROAD RELOCATION

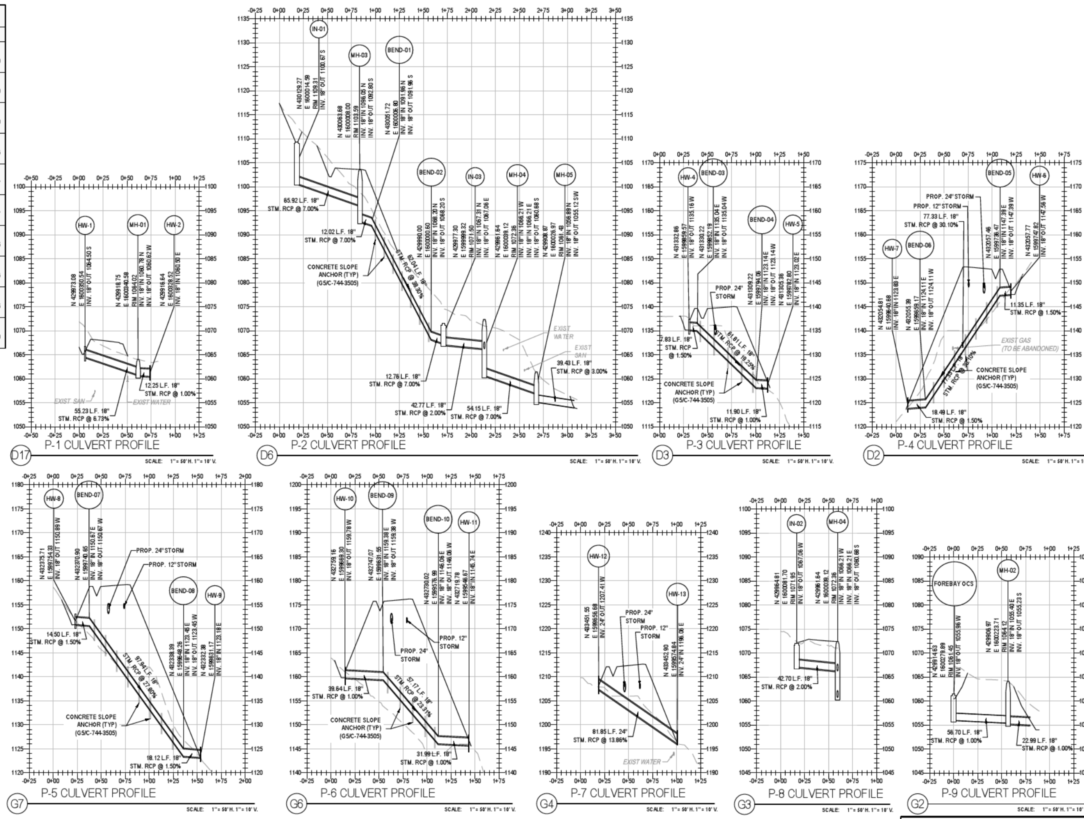
SCALE	PROJECT NO.	DRAWING NUMBER	SHEET	REV
1" = 30'	PPRR1	C-744-3205	1	A

HOMER CITY CAD FILE: \\MOONPA1CL1\LD&P\HOMER CITY GENERATING STATION\202965 – POWER PLANT ROAD RELOCATION\05_DELIVERABLES\DRAWINGS\05 C_CIVIL\SHEET FILES\202965_CS2XX.DWG PLOT DATE:6/27/2025 1:01 PM

STORM STRUCTURES TABLE		
STRUCTURE ID	DATA	LOCATION
FOREBAY OCS	STANDARD BOX INLET WITH TRASH RACK RIM=1061.45 IN V. OUT=18" W 1055.96	N: 429914.63 E: 1600279.89
HW-1	TYPE D-E HEADWALL RIM=1066.71 IN V. OUT=18" S 1064.50	N: 429973.08 E: 1600350.54
HW-2	TYPE D ENDWALL RIM=1062.71 IN V. IN=18" E 1060.50	N: 429916.64 E: 1600328.52
HW-4	TYPE D ENDWALL RIM=1137.37 IN V. OUT=18" W 1135.16	N: 431332.86 E: 1599859.57
HW-5	TYPE D ENDWALL RIM=1125.23 IN V. IN=18" E 1123.02	N: 431305.36 E: 1599782.80
HW-6	TYPE D ENDWALL RIM=1149.77 IN V. OUT=18" W 1147.56	N: 432057.77 E: 1599747.82
HW-7	TYPE D ENDWALL RIM=1126.04 IN V. IN=18" E 1123.83	N: 432054.81 E: 1599640.68
HW-8	TYPE D ENDWALL RIM=1153.10 IN V. OUT=18" W 1150.89	N: 432375.71 E: 1599754.33
HW-9	TYPE D ENDWALL RIM=1125.39 IN V. IN=18" E 1123.18	N: 432332.38 E: 1599631.17
HW-10	TYPE D ENDWALL RIM=1161.99 IN V. OUT=18" W 1159.78	N: 432759.16 E: 1599669.30
HW-11	TYPE D ENDWALL RIM=1147.94 IN V. IN=18" E 1145.74	N: 432719.78 E: 1599546.67
HW-12	TYPE D ENDWALL RIM=1210.16 IN V. OUT=24" W 1207.41	N: 433451.55 E: 1599656.68
HW-13	TYPE D ENDWALL RIM=1198.81 IN V. IN=24" E 1196.06	N: 433452.90 E: 1599574.84
IN-01	TYPE M STANDARD BOX INLET RIM=1109.31 IN V. OUT=18" S 1100.67	N: 430129.27 E: 1600014.59
IN-02	TYPE M STANDARD BOX INLET RIM=1071.95 IN V. OUT=18" W 1067.06	N: 429964.81 E: 1600081.70
IN-03	TYPE M STANDARD BOX INLET RIM=1071.50 IN V. IN=18" N 1067.31 IN V. OUT=18" E 1067.06	N: 429977.30 E: 1599999.32
IN-04	STANDARD BOX INLET WITH TRASH RACK RIM=1058.50 IN V. OUT=18" W 1054.81 IN V. OUT=4" E 1054.83	N: 429854.09 E: 1600324.03
IN-05	STANDARD BOX INLET WITH TRASH RACK RIM=1058.50 IN V. IN=18" E 1054.45 IN V. OUT=18" W 1054.28 IN V. OUT=4" NE 1054.83	N: 429855.02 E: 1600251.09
MH-01	TYPE 4 MANHOLE RIM=1064.02 IN V. IN=18" N 1060.78 IN V. OUT=18" W 1060.62	N: 429918.75 E: 1600340.58
MH-02	TYPE 4 MANHOLE RIM=1064.12 IN V. IN=18" E 1055.40 IN V. OUT=18" S 1055.23	N: 429906.97 E: 1600223.71
MH-03	TYPE 4 MANHOLE RIM=1103.59 IN V. IN=18" N 1096.05 IN V. OUT=18" S 1092.80	N: 430063.68 E: 1600008.00
MH-04	TYPE 4 MANHOLE RIM=1072.36 IN V. IN=18" W 1066.21 IN V. IN=18" E 1066.21 IN V. OUT=18" S 1060.68	N: 429961.64 E: 1600039.12
MH-05	TYPE 4 MANHOLE RIM=1061.43 IN V. IN=18" N 1056.89 IN V. OUT=18" SW 1055.12	N: 429908.87 E: 1600026.97
OUTLET CONTROL STRUCTURE	STANDARD BOX INLET WITH TRASH RACK RIM=1057.50 IN V. OUT=18" W 1053.50	N: 429869.89 E: 1600046.89

STORM STRUCTURES PER PENNDOT PUB 72m RCs

STORM STRUCTURES TABLE		
STRUCTURE ID	DATA	LOCATION
BEND-01	18" 15° RCP BEND IN V. IN=18" N 1091.96 IN V. OUT=18" S 1091.96	N: 430051.72 E: 1600006.80
BEND-02	18" 15° RCP BEND IN V. IN=18" N 1068.20 IN V. OUT=18" S 1068.20	N: 429990.00 E: 1600000.60
BEND-03	18" 15° RCP BEND IN V. IN=18" E 1135.04 IN V. OUT=18" W 1135.04	N: 431330.22 E: 1599852.19
BEND-04	18" 15° RCP BEND IN V. IN=18" E 1123.14 IN V. OUT=18" W 1123.14	N: 431309.22 E: 1599794.06
BEND-05	18" 15° RCP BEND IN V. IN=18" E 1147.39 IN V. OUT=18" W 1147.39	N: 432057.46 E: 1599736.47
BEND-06	18" 15° RCP BEND IN V. IN=18" E 1124.11 IN V. OUT=18" W 1124.11	N: 432055.39 E: 1599659.17
BEND-07	18" 15° RCP BEND IN V. IN=18" E 1150.67 IN V. OUT=18" W 1150.67	N: 432370.90 E: 1599740.65
BEND-08	18" 15° RCP BEND IN V. IN=18" E 1123.45 IN V. OUT=18" W 1123.45	N: 432338.39 E: 1599648.26
BEND-09	18" 15° RCP BEND IN V. IN=18" E 1159.38 IN V. OUT=18" W 1159.38	N: 432747.07 E: 1599631.55
BEND-10	18" 15° RCP BEND IN V. IN=18" E 1146.06 IN V. OUT=18" W 1146.06	N: 432730.02 E: 1599576.99



LEGEND
PROPOSED GRADE
EXISTING GRADE

0' 50 100 150
Horz. Scale in Feet

0' 10 20 30
Vert. Scale in Feet

Michael Baker INTERNATIONAL

MICHAEL BAKER INTERNATIONAL, LLC
100 AIRSIDE DRIVE
MOON TOWNSHIP, PA 15108

HOMER CITY STATION
1750 POWER PLANT ROAD
HOMER CITY, PA 15748

REV	DATE	MADE	ENGR	SUPV/MGR
A	07/02/25	MM	NS	EZ

MICHAEL BAKER INTERNATIONAL, LLC

DWG. TYPE: CIVIL
TITLE: CULVERT PROFILES
PROJECT NAME: POWER PLANT ROAD RELOCATION

SCALE	PROJECT NO.	DRAWING NUMBER	SHEET	REV
AS SHOWN	PPRR1	C-744-3206	1	A

HOMER CITY CAD FILE: \\MOONPA1CL1\LD&I\HOMER CITY GENERATING STATION\202965 – POWER PLANT ROAD RELOCATION\05_DELIVERABLES\DRAWINGS\05 C_CIVIL\SHEET FILES\202965_CS202.DWG PLOT DATE:7/3/2025 4:01 PM

GENERAL 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 (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.

2. 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 PLAN PREPARER, THE PCSM PLAN PREPARER, THE LICENSED PROFESSIONAL RESPONSIBLE FOR OVERSIGHT OF CRITICAL STAGES OF IMPLEMENTATION OF THE PCSM PLAN, AND A REPRESENTATIVE FROM REVIEWING AGENCY TO AN ON-SITE PRECONSTRUCTION MEETING.

3. AT LEAST 3 DAYS PRIOR TO STARTING ANY EARTH DISTURBANCE ACTIVITIES, OR EXPANDING INTO AN AREA PREVIOUSLY UNMARKED, THE PENNSYLVANIA ONE CALL SYSTEM INC. SHALL BE NOTIFIED AT 1-800-242-1776 FOR THE LOCATION OF EXISTING UNDERGROUND UTILITIES.

4. 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 REVIEWING AGENCY PRIOR TO IMPLEMENTATION.

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 BMPS SPECIFIED BY THE BMP SEQUENCE FOR THAT STAGE OR PHASE HAVE BEEN INSTALLED AND ARE FUNCTIONING AS DESCRIBED IN THIS E&S PLAN.

7. EXCESS TOPSOIL AND SOIL MATERIAL WILL BE TAKEN TO A LOCATION WITH AN APPROVED E&S PLAN.

8. 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 BEFORE CLEARING AND GRUBBING OPERATIONS BEGIN.

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 OR PADEP.

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 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 DISCHARGED AT THE SITE.

11. ALL OFF-SITE WASTE AND BORROW AREAS MUST HAVE AN E&S PLAN APPROVED BY THE LOCAL CONSERVATION DISTRICT OR PADEP FULLY IMPLEMENTED PRIOR TO BEING ACTIVATED.

12. 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.

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. ALL VEHICLES AND EQUIPMENT ENTERING OR EXITING THE SITE MUST USE ROCK CONSRUCTION ENTRANCES.

15. 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.

16. 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.

17. 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.

18. ALL SEDIMENT REMOVED FROM BMPS SHALL BE DISPOSED OF IN THE MANNER DESCRIBED ON THE PLAN DRAWINGS.

19. AREAS WHICH ARE TO BE TOPSOILED SHALL BE SCARIFIED TO A MINIMUM DEPTH OF 3 TO 5 INCHES -- 6 TO 12 INCHES ON COMPACTED SOILS -- PRIOR TO PLACEMENT OF TOPSOIL. AREAS TO BE VEGETATED SHALL HAVE A MINIMUM 4 INCHES OF TOPSOIL IN PLACE PRIOR TO SEEDING AND MULCHING. FILL OUTSLOPES SHALL HAVE A MINIMUM OF 2 INCHES OF TOPSOIL.

20. 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.

21. ALL EARTHEN FILLS SHALL BE PLACED IN COMPACTED LAYERS NOT TO EXCEED 9 INCHES IN THICKNESS.

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. SEEPS OR SPRINGS ENCOUNTERED DURING CONSTRUCTION SHALL BE HANDLED IN ACCORDANCE WITH THE STANDARD AND SPECIFICATION FOR SUBSURFACE DRAIN OR OTHER APPROVED METHOD.

26. 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.

27. 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.

28. 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.

29. 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 REVIEWING AGENCY FOR AN INSPECTION PRIOR TO REMOVAL/CONVERSION OF THE E&S BMPS.

31. 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.

32. UPON COMPLETION OF ALL EARTH DISTURBANCE ACTIVITIES AND PERMANENT STABILIZATION OF ALL DISTURBED AREAS, THE OWNER AND/OR OPERATOR SHALL CONTACT THE REVIEWING AGENCY TO SCHEDULE A FINAL INSPECTION.

33. 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.

RECYCLING AND DISPOSAL PROCEDURES OF CONSTRUCTION WASTES

1. ALL OFF-SITE WASTE AND BORROW AREAS MUST HAVE AN E&S CONTROL PLAN APPROVED BY THE LOCAL CONSERVATION DISTRICT OR PADEP FULLY IMPLEMENTED PRIOR TO BEING ACTIVATED.

2. GARBAGE DISPOSAL IS HANDLED THROUGH ONE OF THE LOCAL WASTE MANAGEMENT PROVIDERS/FACILITIES. THE CONTRACTOR WILL LEASE A DUMPSTER FOR THE DURATION OF THE PROJECT WHICH WILL BE DISPOSED OF AT A LICENSED/PERMITTED MUNICIPAL LANDFILL.

3. THE CONTRACTOR WILL DISPOSE OF ALL SCRAP MATERIAL. THE SCRAP MATERIAL MUST BE REMOVED FROM THE SITE AND DISPOSED OF OR RECYCLED AT A PROPERLY LICENSED/PERMITTED FACILITY. THE CONTRACTOR WILL BE RESPONSIBLE FOR ANY PERMITS AND/OR DISPOSAL FEES. THE CONTRACTOR SHALL BE SOLELY RESPONSIBLE TO ASSURE THAT ALL MATERIALS ARE HANDLED AND DISPOSED OF IN ACCORDANCE WITH APPLICABLE LAWS, RULES, AND REGULATIONS, INCLUDING, BUT NOT LIMITED TO THOSE ISSUED BY THE ENVIRONMENTAL PROTECTION AGENCY, PADEP, AND THE OCCUPATIONAL SAFETY AND HEALTH ADMINISTRATION.

4. ALL WASTE OR EXCESS MATERIALS NOT SUITABLE FOR THE ON-SITE STOCKPILE OR BACKFILL SHALL BE DISPOSED OF IN ACCORDANCE WITH THE DEPARTMENTS SOLID WASTE MANAGEMENT REGULATIONS AT 25 PA CODE CHAPTER 260 §260.1 ET SEQ. 271.1 AND 287.1 ET. SEQ. AT THE PADEP-APPROVED WASTE SITE WHERE FEASIBLE CONSTRUCTION WASTE MATERIALS WILL BE RECYCLED OR WILL BE TAKEN TO THE NEAREST PADEP APPROVED FACILITY FOR DISPOSAL. EXCESS SOIL MATERIAL IF ANY WILL BE SPREAD AND REVEGETATED WITHIN THE LOD. OFF-SITE SPOIL AND/OR BORROW SITES MUST BE OPERATED UNDER A CURRENT NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM PERMIT.

GENERAL PROJECT CONSTRUCTION NOTES:

1. MAPPING AND TOPOGRAPHY PROVIDED BY PA DCNR LIDAR SURVEY AND LIMITED FIELD SURVEY. THE CONTRACTOR IS RESPONSIBLE FOR VERIFYING ITS ACCURACY.

2. DISCREPANCIES FOUND IN THE PROJECT MAPPING MUST BE REPORTED TO THE PROJECT ENGINEER/OWNER.

3. THIS DRAWING PRESENTS THE RECOMMENDED EROSION AND SEDIMENTATION CONTROL BMPS BASED ON THE PROJECT MAPPING. THE TYPE AND LOCATION OF THESE BMPS SHOULD BE REVISED BASED ON ACTUAL CONDITIONS IN ACCORDANCE WITH THE DETAILS PRESENTED HEREIN AND LOCAL, STATE, AND FEDERAL REQUIREMENTS INCLUDING THE PADEP EROSION AND SEDIMENT POLLUTION CONTROL PROGRAM MANUAL. ALL BMPS SHALL BE INSPECTED, MAINTAINED, AND REPAIRED AS NEEDED TO ASSURE CONTINUED PERFORMANCE OF THEIR INTENDED FUNCTION.

4. LOCATIONS OF EXISTING UTILITIES ARE BASED ON LIMITED FIELD SURVEY. NO GUARANTEE OR ASSURANCE IS GIVEN BY THE OWNER OR ENGINEER AS TO THEIR ACCURACY, COMPLETENESS, OR VALIDITY. CONTRACTOR TO PERFORM 'DIG' PA ONES CALL, COORDINATE WITH UTILITY COMPANIES, AND LOCATE AND IDENTIFY ALL UTILITIES PRIOR TO CONSTRUCTION.

5. CONTRACTOR IS RESPONSIBLE FOR ADHERING TO ALL OSHA SAFETY REGULATIONS DURING CONSTRUCTION.

6. ALL EXISTING ACCESS ROAD DISTURBANCE SHALL BE REMEDIED AND REPLACED IN KIND.

7. CONTRACTOR SHALL DELINEATE THE LIMIT OF TREE CLEARING & GRADING AS SHOWN WITH VISIBLE BARRIER AND MINIMIZE STRIPPING TOPSOIL, REMOVAL OF EXISTING VEGETATION, AND SOIL COMPACTION OUTSIDE OF THIS LIMIT TO THE MAXIMUM EXTENT POSSIBLE.

PERSONS RESPONSIBLE FOR CONSTRUCTION AND OFF SITE DISPOSAL REQUIREMENTS

IT WILL BE THE RESPONSIBILITY OF THE CONTRACTOR TO PROVIDE SATISFACTORY SOIL E&SC AND TO INTERFACE WITH APPLICABLE REGULATORY AGENCIES.

THE CONTRACTOR IS RESPONSIBLE FOR HAVING AN APPROVED E&SCP AND FOR CONFIRMING THAT AN ACTIVE E&SCP PERMIT EXISTS FOR ANY OFF-SITE BORROW AREA LOCATIONS. IF OFF-SITE DISPOSAL IS REQUIRED, DISPOSAL MUST OCCUR AT A SITE APPROVED BY THE LOCAL CONSERVATION DISTRICT OR PADEP. PROOF OF THESE PERMISSIONS MUST BE PROVIDED TO THE OWNER AND APPLICABLE REGULATORY AGENCIES PRIOR TO USE. ALL FILL MATERIAL MUST BE USED IN ACCORDANCE WITH THE PADEP'S POLICY "MANAGEMENT OF FILL" DOCUMENT NUMBER 258-2182-773. ENVIRONMENTAL DUE DILIGENCE IS DEFINED AS: INVESTIGATIVE TECHNIQUES, INCLUDING, BUT NOT LIMITED TO, VISUAL PROPERTY INSPECTIONS, ELECTRONIC DATA BASE SEARCHES, REVIEW OF PROPERTY OWNERSHIP, REVIEW OF PROPERTY USE HISTORY, SANBORN MAPS, ENVIRONMENTAL QUESTIONNAIRES, TRANSACTION SCREENS, ANALYTICAL TESTING, ENVIRONMENTAL ASSESSMENTS OR AUDITS.

IN THE EVENT THE CONTRACTOR WISHES TO MODIFY THE E&SCP, A COPY OF THE REVISED E&SCP MUST BE SUBMITTED TO THE ENGINEER AND LOCAL CONSERVATION DISTRICT OR PADEP FOR APPROVAL. THE USE OF THE TERM "ENGINEER" IN THIS REPORT SHALL REFER TO THE PROFESSIONAL ENGINEER WHO SIGNED AND SEALED THE E&SCP AND ESCGP-3 FOR THIS PROJECT.

LOCATION AND CLASSIFICATION OF SURFACE WATERS

REFER TO THE PLAN DRAWINGS FOR LOCATIONS OF THE STREAMS AND WETLANDS IN THE PROJECT AREA.

TEMPORARY STRUCTURAL PRACTICES

ROCK CONSTRUCTION ENTRANCE. IN ORDER TO PREVENT THE TRACKING OF MUD ONTO PAVED ROADWAYS, ROCK CONSTRUCTION ENTRANCES (RCE) SHALL BE INSTALLED FROM ANY PUBLIC ROAD, AS SHOWN ON THE PLAN SHEETS AND THE DETAIL SHEETS. THE CONTRACTOR MAY DEVIATE FROM THE LOCATIONS SHOWN ON THE PLAN WITHIN THE LOD, BUT MUST OBTAIN APPROVAL FROM THE ENGINEER. UPON SITE STABILIZATION, THE RCE SHALL BE REMOVED ALONG WITH ANY UNSUITABLE MATERIAL, AND THE AREA RESTORED ACCORDING TO MAINTENANCE PROGRAM OF THIS PLAN.

COMPOST FILTER SOCK. COMPOST FILTER SOCK SHALL BE INSTALLED IN ACCORDANCE WITH THE DETAILS AND SIZING CHART ON THE DRAWINGS TO FILTER SEDIMENT LADEN SHEET FLOW RUNOFF FROM THE LOD. ANY PORTION OF THE SEDIMENT BARRIER THAT IS UNDERMINED OR OVERTOPPED WILL BE IMMEDIATELY REPAIRED. IF THE SECTION CONTINUES TO BE UNDERMINED OR OVERTOPPED, A ROCK FILTER OUTLET WILL BE INSTALLED TO REPLACE THE SECTION. FOR SEDIMENT BARRIER LOCATIONS, SEE THE PLAN SHEETS.

TEMPORARY SEEDING. UPON TEMPORARY CESSATION OF AN EARTH DISTURBANCE ACTIVITY OR ANY STAGE OF AN ACTIVITY WHERE A CESSATION OF EARTH DISTURBANCE ACTIVITIES WILL EXCEED FOUR DAYS, THE SITE SHALL BE IMMEDIATELY SEEDED, MULCHED, OR OTHERWISE PROTECTED FROM ACCELERATED E&S PENDING FUTURE EARTH DISTURBANCE ACTIVITIES. FOR AN EARTH DISTURBANCE ACTIVITY OR ANY STAGE OF AN ACTIVITY TO BE CONSIDERED TEMPORARILY STABILIZED, THE DISTURBED AREAS SHALL BE COVERED WITH ONE OF THE FOLLOWING: A MINIMUM UNIFORM COVERAGE OF MULCH AND SEED, WITH A DENSITY CAPABLE OF RESISTING ACCELERATED E&S, OR AN ACCEPTABLE BMP WHICH TEMPORARILY MINIMIZES ACCELERATED E&S. TEMPORARY STABILIZATION WILL NOT OCCUR ON ACTIVE VEHICULAR TRAVEL WAYS WITHIN THE LOD. THE ON-SITE ENVIRONMENTAL INSPECTOR WILL LOG DAILY ACTIVITY WITHIN THE PROJECT LOD AND NOTIFY THE CONTRACTOR OR AREAS REQUIRING TEMPORARY STABILIZATION (I.E. AREAS WHERE WORK HAS CEASED FOR AT LEAST FOUR DAYS.) REFER TO THE DETAIL SHEETS FOR TEMPORARY SEEDING SPECIFICATIONS.

PUMPED WATER FILTER BAG. SEDIMENT LADEN WATER THAT COLLECTS DURING EXCAVATION SHALL BE PUMPED INTO A PUMPED WATER FILTER BAG. THE MEANS AND METHODS OF CONSTRUCTION BY THE CONTRACTOR WILL DICTATE THE LOCATION AND PLACEMENT OF THIS CONTROL, BUT THE CONTRACTOR MUST CONFORM TO THE MANUFACTURER'S RECOMMENDATIONS FOR USE OF THIS CONTROL. A COMPOST FILTER SOCK WILL BE INSTALLED BELOW THE BAG FOR ADDITIONAL SEDIMENT REMOVAL CAPACITY. PUMPED WATER FILTER BAGS WILL BE REPLACED ONCE THEY ARE HALF FULL.

SEDIMENT BASIN.
SEDIMENT BASINS ARE TEMPORARY SETTLING PONDS THAT RELEASE RUNOFF AT A CONTROLLED RATE. THE TRAP AND BASIN ARE DESIGNED TO SLOWLY RELEASE RUNOFF, DETAINING IT LONG ENOUGH TO ALLOW MOST OF THE SEDIMENT TO SETTLE. THE SEDIMENT TRAP AND SEDIMENT BASIN WILL BE CONVERTED TO INFILTRATION BASINS DURING THE PCSM PHASE OF THE PROJECT.

EROSION CONTROL BLANKETS (ECB). SLOPES EQUAL TO OR GREATER THAN 3:1 AND AREAS WITHIN 50 FEET OF WETLANDS WILL HAVE ECB OR FLEXIBLE GROWTH MEDIUM (FGM) INSTALLED. REVEGETATE THESE AREAS AS SOON AS POSSIBLE WITH PERMANENT SEEDING.

PERMANENT STRUCTURAL PRACTICES

PERMANENT SEEDING. THE DISTURBED UPLAND AREAS WITHIN THE LOD WILL BE REVEGETATED IN ACCORDANCE WITH THE SEEDING INFORMATION PROVIDED ON THESE PLANS. FOR THE DISTURBED AREAS, TOPSOIL WILL BE SEGREGATED AND RESEEDED.

CHANNEL LININGS. APPROPRIATELY DESIGNED LININGS, INCLUDING EROSION CONTROL BLANKETS, TURF REINFORCEMENT MATS, AND RIPRAP, WILL BE INSTALLED IN THE DITCHES TO PREVENT EROSION AND PROTECT THE CHANNELS.

OUTLET PROTECTION. RIPRAP APRONS WILL BE USED TO PREVENT SCOUR AT CHANNEL AND CULVERT OUTFALLS.

PERMANENT AND TEMPORARY VEGETATIVE PRACTICES

PERMANENT VEGETATIVE STABILIZATION. DISTURBED AREAS WILL RECEIVE TOPSOIL AND PERMANENT VEGETATIVE STABILIZATION, DEFINED AS A UNIFORM 70 PERCENT PERENNIAL VEGETATIVE COVER. THE DISTURBED AREAS WILL BE PERMANENTLY STABILIZED IN ACCORDANCE WITH SEEDING INFORMATION PROVIDED ON THESE SHEETS. IF SEEDING DATES ARE EXTENDED APPLY FULL TEMPORARY SEEDING MIXTURE IN ADDITION TO APPLYING ONLY 50 PERCENT OF THE PERMANENT SEEDING AND SOIL SUPPLEMENTS. APPLY THE REMAINING 50 PERCENT WITHIN THE NEXT SEEDING DATES.

TEMPORARY VEGETATIVE PRACTICES (INTERIM STABILIZATION). UPON TEMPORARY CESSATION OF ANY EARTH DISTURBANCE ACTIVITY OR ANY STAGE OF AN ACTIVITY WHERE A CESSATION OF EARTH DISTURBANCE ACTIVITIES WILL EXCEED FOUR DAYS, THE SITE SHALL BE IMMEDIATELY SEEDED, MULCHED, OR OTHERWISE PROTECTED FROM ACCELERATED E&S PENDING FUTURE EARTH DISTURBANCE ACTIVITIES. FOR AN EARTH DISTURBANCE ACTIVITY OR ANY STAGE OF AN ACTIVITY TO BE CONSIDERED TEMPORARILY STABILIZED, THE DISTURBED AREAS SHALL BE COVERED WITH ONE OF THE FOLLOWING: A MINIMUM UNIFORM COVERAGE OF MULCH AND SEED, WITH A DENSITY CAPABLE OF RESISTING ACCELERATED E&S, OR AN ACCEPTABLE BMP WHICH TEMPORARILY MINIMIZES ACCELERATED E&S. TEMPORARY STABILIZATION WILL NOT OCCUR ON ACTIVE VEHICULAR TRAVEL WAYS WITHIN THE LOD. THE ON-SITE ENVIRONMENTAL INSPECTOR WILL LOG DAILY ACTIVITY WITHIN THE PROJECT LOD AND NOTIFY THE CONTRACTOR OF AREAS REQUIRING TEMPORARY STABILIZATION (I.E. AREAS WHERE WORK HAS CEASED FOR AT LEAST FOUR DAYS.)

SEQUENCE OF BMP INSTALLATION AND REMOVAL

A COPY OF THE APPROVED DRAWINGS (STAMPED, SIGNED, AND DATED BY THE REVIEWING AGENCY) MUST BE AVAILABLE AT THE PROJECT SITE AT ALL TIMES. AT LEAST SEVEN DAYS PRIOR TO STARTING ANY EARTH DISTURBANCE ACTIVITIES, THE OWNER AND/OR OPERATOR SHALL INVITE ALL CONTRACTORS, THE LANDOWNER, APPROPRIATE MUNICIPAL OFFICIALS, THE E&S PLAN PREPARER, THE POST CONSTRUCTION STORMWATER MANAGEMENT PLAN PREPARER, AND A REPRESENTATIVE FROM THE REVIEWING AGENCY TO THE ONSITE PRE-CONSTRUCTION MEETING. AT LEAST THREE DAYS PRIOR TO STARTING EARTH DISTURBANCE ACTIVITIES OR EXPANDING INTO AREAS PREVIOUSLY UNMARKED, THE PENNSYLVANIA ONE CALL SYSTEM, INC. SHALL BE NOTIFIED AT 1-800-242-1776 FOR THE LOCATIONS OF EXISTING UNDERGROUND UTILITIES.

ALL BMPS SHALL BE INSTALLED IN ACCORDANCE WITH: THE E&S PLAN STANDARD DETAILS; SPECIFICATIONS DEFINED IN THE PADEP EROSION AND SEDIMENT BEST MANAGEMENT PRACTICE (BMP) MANUAL, LATEST EDITION; AND, WHERE APPLICABLE, THE PRODUCT MANUFACTURER'S RECOMMENDATIONS. EACH STEP OF THE SEQUENCE SHALL BE COMPLETED BEFORE PROCEEDING TO THE NEXT STEP EXCEPT WHERE NOTED.

E&S CONSTRUCTION SEQUENCE:

1. STAKE OUT LIMIT OF DISTURBANCE FOR GRADING OPERATIONS FOR ROADWAY SITE.
2. LOCATE EXISTING UTILITIES WITHIN THE LIMIT OF DISTURBANCE. TAKE CARE NOT TO DAMAGE EXISTING UTILITIES SCHEDULED TO REMAIN IN PLACE DURING CONSTRUCTION.
3. PLACE ORANGE CONSTRUCTION FENCE AROUND ALL ENVIRONMENTAL FEATURES AND NEIGHBORING PROPERTY ON SITE.
4. INSTALL ROCK CONSTRUCTION ENTRANCES 1 & 2 AT THE LOCATIONS SHOWN ON THE PLANS.
5. INSTALL TEMPORARY EQUIPMENT CROSSINGS AT STREAMS AND WETLANDS AS SHOWN ON THE E&S PLANS. CROSSINGS MUST BE INSTALLED IN ACCORDANCE WITH REQUIREMENTS OF THE APPROVED CHAPTER 105 GENERAL PERMIT DOCUMENTS ASSOCIATED WITH EACH INDIVIDUAL CROSSING LOCATION.
6. INSTALL COMPOST FILTER SOCK AT THE LOCATIONS SHOWN ON THE PLANS.
7. BEGIN GRADING SEDIMENT BASIN 1 AND ALL DIVERSION CHANNELS. INSTALL THE RISERS, OUTLET PIPES, ROCK APRON AND EMERGENCY SPILLWAYS FOR BMP 1 PER THE PLANS. INSTALL DIVERSION CHANNELS STARTING AT THE DOWNSTREAM END AND WORK UPSTREAM. INSTALL THE FOREBAY OUTLET CONTROL WITH TEMPORARY RISER ABOVE THE SPILLWAY ELEVATION AND TWO 12" DRAIN BASINS WITH OUTLET PIPES AND CAPS.
8. RELOCATE EXISTING SANITARY FORCEMAIN AND GAS LINE ACCORDING TO THE PLAN SHEETS.
9. BEGIN INSTALLATION OF CROSS CULVERTS. INSTALL HEADWALLS AND CROSS CULVERTS STARTING AT THE DOWNSTREAM END AND WORKING UPSTREAM.
10. STRIP AND STOCKPILE TOPSOIL AND SITE SPOILS AT LOCATIONS INDICATED ON PLANS OR REMOVE MATERIAL OFFSITE AND DISPOSE OF PROPERLY.
11. BEGIN GRADING OPERATIONS FOR CONSTRUCTION OF THE RELOCATED POWER PLANT ROAD AND COLLECTION CHANNELS AS REQUIRED IN ACCORDANCE WITH THE DETAILS. INSTALL STORMWATER CONVEYANCE FEATURES STARTING ON DOWNSTREAM SIDE AND WORK UPSTREAM. STORMWATER CONVEYANCE FACILITY INSTALLATION SHALL BE PERFORMED DURING DRY (NO FLOW) CONDITIONS. ADJUST INSTALLED E&S BMPS AS NECESSARY TO FACILITATE WORK WHILE MAINTAINING PROTECTION OF STORMWATER FACILITIES. INSTALL ROCK APRONS BELOW CULVERT AND CHANNEL OUTFALLS AS EACH IS INSTALLED.
12. PLACE ROADWAY BASE AND PAVEMENT SECTION ACCORDING TO PLANS ONCE ROADWAY SUBGRADE HAS BEEN ACHIEVED.
13. TOPSOIL ALL SLOPES AND STOCKPILES. ONCE OPERATIONS ARE COMPLETE, SEED AND MULCH ALL DISTURBED AREAS, USING THE SPECIFIED SEEDING REQUIREMENTS FOUND ON THE PLANS. EROSION CONTROL BLANKET SHALL BE INSTALLED AS REQUIRED IN AREAS WITH SLOPES EXCEEDING 3H:1V IN REGULAR 15' VERTICAL INCREMENTS. ALL DISTURBED AREAS MUST BE TEMPORARILY STABILIZED IF REMAINING IDLE OR ANTICIPATED TO REMAIN IDLE. IN THE ABSENCE OF A SOIL TEST, LIME SHOULD BE ADDED AT A RATE OF 3 TON / ACRE. DISTURBED AREAS MUST BE TEMPORARILY STABILIZED IF REMAINING IDLE OR ANTICIPATED TO REMAIN IDLE.
14. HYDROSEEDING TO BE USED AT DISCRETION OF CONTRACTOR BETWEEN APRIL 1ST AND NOVEMBER 1ST.
15. RESEED ALL DISTURBED AREAS IF VEGETATION IS NOT ESTABLISHED AFTER 30 DAYS.

MAINTENANCE PROGRAM

AFTER CONSTRUCTION IS COMPLETED AND SITE HAS REACHED FINAL GRADE, ALL TEMPORARY BMPS WILL BE REMOVED AND ANY LAND DISTURBED BY REMOVAL WILL BE PERMANENTLY STABILIZED, UNLESS OTHERWISE SPECIFIED, ALL MAINTENANCE MUST BE COMPLETED IMMEDIATELY AFTER AN INSPECTION IDENTIFIES THAT A BMP IS NOT FUNCTIONING.

1. IF CONCENTRATED FLOW AREAS FORM DUE TO ANY STORM EVENT AND ANY AREA BECOMES UNSTABLE, THE AREA SHALL BE STABILIZED BY INSTALLING ADDITIONAL BMPS IN THE CONCENTRATED FLOW AREAS. ANY REQUIRED REPAIRS OR MAINTENANCE SHALL BE MADE IMMEDIATELY.

2. THE CONTRACTOR SHALL ASSESS THE WORKING CONDITION OF THE E&S MEASURES AT LEAST WEEKLY AND AFTER EACH MEASURABLE RAIN EVENT (GREATER THAN ONE-HALF INCH IN 24 HOURS OR ANY SIGNIFICANT THAW EVENT). DAMAGED, BLOCKED, OR OTHERWISE COMPROMISED MEASURES OBSERVED DURING THE INSPECTION SHALL BE REPAIRED IMMEDIATELY.

3. COMPOST FILTER SOCKS SHALL BE INSPECTED WEEKLY AND AFTER EACH MEASURABLE RAIN EVENT. THE FILTER SOCK SHALL BE INSPECTED TO ENSURE THEY HAVE NOT BEEN DISLODGED OR BROKEN. ACCUMULATED SEDIMENT SHALL BE REMOVED WHEN ACCUMULATIONS REACH ONE-HALF THE ABOVE GROUND HEIGHT OF THE SOCK. DAMAGED SOCKS SHALL BE REPAIRED IN ACCORDANCE WITH THE MANUFACTURERS RECOMMENDATIONS, OR REPLACED WITHIN TWENTY-FOUR HOURS OF INSPECTION.

4. BIODEGRADABLE FILTER SOCK SHALL BE REPLACED AFTER SIX MONTHS; PHOTODEGRADABLE SOCKS AFTER ONE YEAR; POLYPROPYLENE SOCKS SHALL BE REPLACED IN ACCORDANCE WITH THE MANUFACTURERS RECOMMENDATIONS. STAKES SHALL BE REMOVED FROM SOCKS UPON STABILIZATION OF THE AREAS TRIBUTARY TO A SOCK. SOCK MAY BE LEFT IN PLACE AND VEGETATED, OR REMOVED. IF LEFT IN PLACE, THE MESH SHALL BE CUT OPEN AND THE MULCH SPREAD AS A SOIL SUPPLEMENT.

5. PUMPED WATER FILTER BAGS SHALL BE INSPECTED DAILY FOR BREAKS OR LEAKS. THE FILTER BAG AND UNDERLYING EROSION PROTECTION MATERIALS (E.G. STRAW BALES, GEOTEXTILE) SHALL BE CLOSELY MONITORED FOR STABILITY. BAGS SHALL BE DISPOSED OF IN ACCORDANCE WITH THE PROJECT E&S PLAN AND REPLACED WHEN THE BAG BECOMES ONE-HALF FULL OF SEDIMENT. SPARE BAGS AND UNDERLYING MATERIALS SHALL BE KEPT AVAILABLE FOR REPLACEMENT. EROSION AND UNDERCUTTING OF FILTER BAGS SHALL BE PROMPTLY REPAIRED. THE PUMPING RATE TO FILTER BAGS FOR PUMPED WATER SHALL BE ONE-HALF THE MAXIMUM PUMPING RATE RECOMMENDED BY THE MANUFACTURER.

6. THE SEDIMENT BASIN SHALL BE INSPECTED ON AT LEAST A WEEKLY BASIS AND AFTER EACH RUNOFF EVENT. A CLEANOUT STAKE SHALL BE PLACED NEAR THE CENTER OF THE FACILITIES. ACCUMULATED SEDIMENT SHALL BE REMOVED WHEN IT HAS REACHED THE CLEANOUT ELEVATION ON THE STAKE AND THE FACILITY RESTORED TO ITS ORIGINAL DIMENSIONS. SILT REMOVED FROM THE FACILITY SHALL BE SPREAD AND DRIED ON-SITE, WITHIN THE LIMIT-OF-DISTURBANCE AND UPSLOPE OF EROSION AND SEDIMENT CONTROL DEVICES. EXCESS MATERIALS THAT CANNOT BE SPREAD ON-SITE MUST BE DISPOSED OF AT A PADEP APPROVED SITE. EMBANKMENTS, SPILLWAYS, AND OUTLETS SHALL BE INSPECTED FOR EROSION, PIPING, AND SETTLEMENT. NECESSARY REPAIRS SHALL BE MADE PROMPTLY. ACCUMULATED SEDIMENT SHALL BE REMOVED AND DISTURBED AREAS SHALL BE STABILIZED INSIDE THE FACILITIES BEFORE CONVERSION TO A STORMWATER MANAGEMENT FACILITY.

7. RIPRAP APRONS SHALL BE INSPECTED FOR DISPLACED RIPRAP. ANY DISPLACED RIPRAP SHALL BE REPLACED IMMEDIATELY.

8. CHANNELS SHALL BE MAINTAINED TO ENSURE THAT THE SPECIFIED DESIGN DIMENSIONS AND PROTECTIVE LININGS ARE AVAILABLE AT ALL TIMES. A CHANNEL SHOULD BE CLEANED WHENEVER TOTAL CHANNEL DEPTH IS REDUCED BY 25% AT ANY LOCATION. DAMAGED CHANNEL LININGS SHOULD BE REPAIRED OR REPLACED IMMEDIATELY.

9. ROCK CONSTRUCTION ENTRANCES WILL BE REGULARLY MAINTAINED SO THAT THE ENTRANCE REMAINS IN A CONDITION THAT WILL PREVENT TRACKING MUD OR FLOWING OF SEDIMENT ONTO THE PUBLIC ROADWAYS. ALL SEDIMENT SPILLED, DROPPED, WASHED, OR TRACKED ONTO PUBLIC ROADWAYS MUST BE REMOVED IMMEDIATELY.

10. A LOG SHOWING DATES THAT E&S BMPS WERE INSPECTED AS WELL AS ALL 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.

11. RE-VEGETATED AREAS SHALL BE INSPECTED FOR ADEQUATE VEGETATIVE COVER. AREAS EXHIBITING STRESSED VEGETATION OR SIGNS OF EROSION SHALL HAVE THE SEEDBED PREPARED AND HAVE SEED AND MULCH RE-APPLIED. ADDITIONAL MAINTENANCE ITEMS ARE OUTLINED IN THE "STANDARD EROSION AND SEDIMENT POLLUTION CONTROL NOTES."

12. ALL BMPS SHALL BE INSPECTED, MAINTAINED, AND REPAIRED AS NEEDED TO ASSURE CONTINUED PERFORMANCE OF THEIR INTENDED FUNCTION. WHENEVER INSPECTION AND/OR MONITORING REVEALS THAT THE BMPS IDENTIFIED IN THE E&S PLAN ARE INADEQUATE, THE E&S PLAN SHALL BE MODIFIED, AS APPROPRIATE, IN A TIMELY MANNER. DAMAGED BMPS WILL BE REPAIRED OR REPLACED AS SOON AS PRACTICABLE, BUT NO MORE THAN 24 TO 48 HOURS AFTER DISCOVERING THE DAMAGE. ANY SPILLAGE OR DISCHARGE OF POLLUTANTS SHALL BE REPORTED WITHIN TWENTY-FOUR HOURS.

13. MAINTENANCE AND REPAIR OF HEAVY EQUIPMENT AND VEHICLES INVOLVING OIL CHANGES, HYDRAULIC SYSTEM DRAIN DOWN, SOLVENT AND DE-GREASING CLEANING OPERATIONS, FUEL TANK DRAIN DOWN AND REMOVAL, AND OTHER ACTIVITIES WHICH MAY RESULT IN DISCHARGE OR SPILLAGE OF POLLUTANTS TO THE GROUND OR INTO SURFACE WATER RUNOFF MUST BE CONDUCTED USING SPILL PREVENTION MEASURES, SUCH AS DRIP PANS. CONTAMINATED SURFACES SHALL BE CLEANED IMMEDIATELY FOLLOWING ANY DISCHARGE OR SPILL INCIDENT. CONTAMINATED SOIL MUST BE DISPOSED OF PROPERLY. EMERGENCY REPAIRS MAY BE PERFORMED ON-SITE USING TEMPORARY PLASTIC PLACED BENEATH AND, IF RAINING, OVER THE VEHICLE.

14. THE E&S PLAN SHALL BE RETAINED ON-SITE. THE E&S PLAN SHALL BE MODIFIED WHENEVER THERE IS A SIGNIFICANT CHANGE IN THE DESIGN, CONSTRUCTION, OPERATION, OR MAINTENANCE OF ANY BMP. THE REVIEWING AGENCY MUST BE NOTIFIED OF ANY CHANGES. DEPENDING ON THE SIGNIFICANCE OF THE REVISION, A PERMIT MODIFICATION MAY NEED TO BE SUBMITTED TO THE REVIEWING AGENCY OR AREA LINE MODIFICATION WITH NOTIFICATION AND INSPECTOR CAN BE USED IF CHANGE OCCURS WITHIN PERMIT LIMIT-OF-DISTURBANCE.

15. AFTER FINAL SITE STABILIZATION HAS BEEN ACHIEVED OR AFTER TEMPORARY BMPS ARE NO LONGER NEEDED, TEMPORARY EROSION AND SEDIMENTATION CONTROLS MUST BE REMOVED WITHIN THIRTY DAYS. ACCUMULATED SEDIMENT SHALL BE REMOVED OR STABILIZED ON SITE. AREAS DISTURBED DURING REMOVAL OF THE CONTROLS MUST BE STABILIZED IMMEDIATELY.

16. WHEN ENCOUNTERING A WASHOUT OF ECB OR FGM USED ON SLOPES, RE-GRADE, RE-SEED AND RE-MULCH PER MANUFACTURER'S SPECIFICATIONS. WHEN ENCOUNTERING ECB OR FGM FAILURE, RE-GRADE, RE-SEED, AND RE-MULCH PER MANUFACTURER'S SPECIFICATIONS.

17. INSPECT DISCHARGE LOCATIONS TO ASCERTAIN EFFECTIVENESS OF CONTROLS. IMPLEMENT ADDITIONAL CONTROL MEASURES AS NEEDED.

18. UPON FINAL COMPLETION OF AN EARTH DISTURBANCE ACTIVITY OR ANY STAGE OR PHASE OF AN ACTIVITY, THE SITE SHALL IMMEDIATELY HAVE TOPSOIL RESTORED, REPLACED, OR AMENDED, SEEDED, MULCHED OR OTHERWISE PERMANENTLY STABILIZED AND PROTECTED FROM ACCELERATED EROSION AND SEDIMENTATION.

COMMONWEALTH OF PENNSYLVANIA
REGISTERED PROFESSIONAL
NICOLAS THOMAS SLATER
ENGINEER
PE095171
07/23/2025

MICHAEL BAKER INTERNATIONAL, LLC
100 AIRSIDE DRIVE
MOON TOWNSHIP, PA 15108

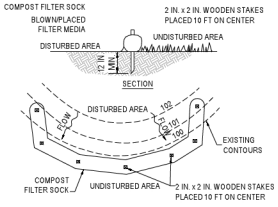
HOMER CITY STATION
1750 POWER PLANT ROAD
HOMER CITY, PA 15748

REV	DATE	MADE	ENGR	SUPV/MGR
A	07/02/25	MM	NS	EZ

MICHAEL BAKER INTERNATIONAL, LLC

DWG. TYPE: CIVIL
TITLE: E&S NOTES & DETAILS
PROJECT NAME: POWER PLANT ROAD RELOCATION

SCALE	PROJECT NO.	DRAWING NUMBER	SHEET	REV
NTS	PPRR1	C-744-3501	1	A



PLAN VIEW

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.

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-degradable	Photo-degradable	Bio-degradable	Photo-degradable	Photo-degradable
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"	1/8"
Tensile Strength		26 psi	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-ply systems					
Inner Containment Netting	HDPE biaxial net Continuously wound Fusion-welded junctures 3/4" X 3/4" Max. aperture size				
Outer Filtration Mesh	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.					

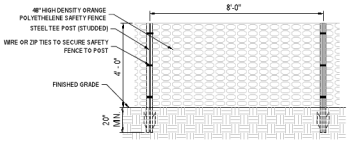
TABLE 4.2
Compost Standards

Organic Matter Content	80% - 100% (dry weight basis)
Organic Portion	Fibrous and elongated
pH	5.5 - 8.0
Moisture Content	35% - 55%
Particle Size	98% pass through 1" screen
Soluble Salt Concentration	5.0 dS/m (mmhos/cm) Maximum

SOCK NO.	Dia. In.	LOCATION	SLOPE PERCENT	SLOPE LENGTH ABOVE BARRIER (FT)
1	18	South of BMP 1	11%	172
2	18	South of BMP 1	13%	162
3	18	South of BMP 1	13%	152
4	18	South of BMP 1	15%	196
5	32	South of Roadway Grading	25%	160
6	32	South of Roadway Grading	25%	145
7	32	South of Roadway Grading	22%	127
8	32	South of Roadway Grading	22%	176
9	32	Southwest of Roadway Grading	24%	176
10	32	Southwest of Roadway Grading	25%	178
11	32	Southwest of Roadway Grading	25%	180
12	32	Southwest of Roadway Grading	25%	167
13	32	West of Roadway Grading	25%	160
14	32	West of Roadway Grading	25%	157
15	32	West of Roadway Grading	25%	163
16	32	West of Roadway Grading	25%	180
17	32	West of Roadway Grading	25%	169
18	32	West of Roadway Grading	30%	130
19	32	West of Roadway Grading	30%	120
20	32	West of Roadway Grading	30%	123
21	32	West of Roadway Grading	30%	120
22	32	West of Roadway Grading	25%	180
23	32	West of Roadway Grading	23%	180
24	32	West of Roadway Grading	22%	174
25	32	West of Roadway Grading	24%	167
26	32	West of Roadway Grading	24%	161
27	32	West of Roadway Grading	18%	156
28	32	West of Roadway Grading	21%	106
29	32	West of Roadway Grading	23%	121
30	32	West of Roadway Grading	18%	134
31	32	West of Roadway Grading	19%	142
32	32	West of Roadway Grading	17%	209
33	32	West of Roadway Grading	20%	135
34	32	West of Roadway Grading	21%	124
35	24	West of Roadway Grading	24%	121
36	24	West of Roadway Grading	23%	132
37	18	West of Roadway Grading	18%	124
38	18	West of Roadway Grading	17%	103
39	32	West of Roadway Grading	50%	36
40	32	West of Roadway Grading	15%	77
41	32	West of Roadway Grading	20%	150
42	32	West of Roadway Grading	25%	176
43	32	West of Roadway Grading	25%	135
44	32	West of Roadway Grading	25%	164
45	32	West of Roadway Grading	25%	171
46	32	West of Roadway Grading	25%	180
47	32	West of Roadway Grading	20%	230
48	32	West of Roadway Grading	20%	201
49	32	West of Roadway Grading	20%	196
50	32	West of Roadway Grading	20%	186
51	32	West of Roadway Grading	18%	176
52	32	West of Roadway Grading	17%	162
53	24	West of Roadway Grading	16%	143
54	24	West of Roadway Grading	15%	135
55	24	West of Roadway Grading	14%	120
56	24	West of Roadway Grading	13%	110
57	24	West of Roadway Grading	17%	102
58	24	West of Roadway Grading	15%	110
59	24	West of Roadway Grading	14%	147
60	24	West of Roadway Grading	12%	148
61	32	West of Roadway Grading	7%	260
62	32	West of Roadway Grading	6%	270
63	18	West of Roadway Grading	16%	109
64	18	West of Roadway Grading	7%	187
65	18	West of Roadway Grading	4%	167
66	18	West of Roadway Grading	3%	84
67	32	East of Roadway Grading	6%	232
68	32	North of Roadway Grading	12%	320
69	32	North of Roadway Grading	12%	350
70	32	South of Roadway Grading	12%	50
71	18	South of Roadway Grading	10%	40
72	18	South of Roadway Grading	10%	60

H10 COMPOST FILTER SOCK

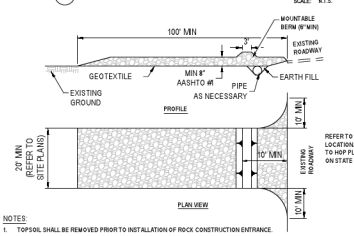
SCALE: N.T.S.



THE CONSTRUCTION FENCE SHALL BE SECURELY FASTENED TO THE TOP, MIDDLE AND BOTTOM OF EACH POST.

B6 ORANGE CONSTRUCTION FENCE

SCALE: N.T.S.



REFER TO SITE PLANS FOR SIZE AND LOCATION. WHERE APPLICABLE, REFER TO HOP PLANS FOR SIZE AND LOCATION ON STATE ROADWAYS.

NOTES:

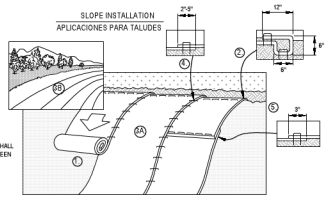
1. TOPSOIL SHALL BE REMOVED PRIOR TO INSTALLATION OF ROCK CONSTRUCTION ENTRANCE.
2. EXTEND ROCK OVER WIDTH OF ENTRANCE.
3. RUNOFF SHALL BE DIVERTED FROM ROADWAY TO A SUITABLE SEDIMENT REMOVAL BMP PRIOR TO ENTERING ROCK CONSTRUCTION ENTRANCE.
4. MOUNTABLE BERM SHOULD BE INSTALLED WHEREVER OPTIONAL CULVERT PIPE IS USED. PIPE TO BE SIZED APPROPRIATELY FOR SIZE OF DITCH BEING CROSSED.
5. REFER TO SITE PLANS FOR SIZE AND LOCATION. WHERE APPLICABLE, REFER TO HOP PLANS FOR SIZE AND LOCATION ON STATE ROADWAYS.

MAINTENANCE:

1. 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.
2. 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' INCREMENTS UNTIL CONDITION IS ALLEVIATED OR INSTALL WASH RACK. WASHING THE ROADWAY OR SWEEPING THE DEPOSITS INTO THE ROADWAY DITCHES, CULVERTS, OR OTHER DRAINAGE WAYS IS NOT ACCEPTABLE.

E6 ROCK CONSTRUCTION ENTRANCE

SCALE: N.T.S.



1. PREPARE SOIL BEFORE INSTALLING ROLLED EROSION CONTROL PRODUCTS (RECP's), INCLUDING ANY NECESSARY APPLICATION OF LIME FERTILIZER, AND SEED.
NOTE: WHEN USING CELL-O-SEED DO NOT SEED PREPARED AREA. CELL-O-SEED MUST BE INSTALLED WITH PAPER SIDE DOWN.

2. BEGIN AT THE TOP OF THE SLOPE BY ANCHORING THE RECP's IN A 8" DEEP X 8" WIDE TRENCH WITH APPROXIMATELY 12" OF RECP's EXTENDED BEYOND THE UP-SLOPE PORTION OF THE TRENCH. ANCHOR THE RECP's WITH A ROW OF STAPLES/STAKES APPROXIMATELY 1' 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 RECP's BACK OVER SEED AND COMPACTED SOIL. SECURE RECP's OVER COMPACTED SOIL WITH A ROW OF STAPLES/STAKES SPACED APPROXIMATELY 12" APART ACROSS THE WIDTH OF THE RECP's.

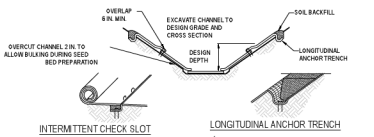
3. ROLL THE RECP's (A) DOWN OR (B) HORIZONTALLY ACROSS THE SLOPE. RECP's WILL UNROLL WITH APPROPRIATE SIDE AGAINST THE SOIL SURFACE. ALL RECP's MUST BE SECURELY FASTENED TO SOIL SURFACE BY PLACING STAPLES/STAKES IN APPROPRIATE LOCATIONS AS SHOWN IN THE STAPLE PATTERN GUIDE. WHEN USING THE DOT SYSTEM, STAPLES/STAKES SHOULD BE PLACED THROUGH EACH OF THE COLORED DOTS CORRESPONDING TO THE APPROPRIATE STAPLE PATTERN.

4. THE EDGES OF PARALLEL RECP's MUST BE STAPLED WITH APPROXIMATELY 2" - 5" OVERLAP DEPENDING ON RECP's TYPE.

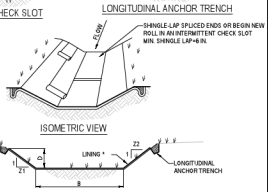
5. CONSECUTIVE RECP's SPLICED DOWN THE SLOPE MUST BE PLACED END OVER END (SHINGLE STYLE) WITH AN APPROXIMATE 3" OVERLAP. STAPLE THROUGH OVERLAPPED AREA, APPROXIMATELY 12" APART ACROSS ENTIRE RECP's WIDTH. NOTE: *IN LOOSE SOIL CONDITIONS, THE USE OF STAPLE OR STAKE LENGTHS GREATER THAN 8" MAY BE NECESSARY TO PROPERLY SECURE THE RECP's.

H6 EROSION CONTROL BLANKET INSTALLATION

SCALE: N.T.S.



PREPARE SOIL AND APPLY SEED BEFORE INSTALLING BLANKETS, MATS, OR OTHER TEMPORARY CHANNEL LINER SYSTEM.



*SEE MANUFACTURER'S LINING INSTALLATION DETAIL FOR STAPLE PATTERNS, VEGETATIVE STABILIZATION FOR SOIL AMENDMENTS, SEED MIXTURES AND MULCHING INFORMATION

CHANNEL NO.	STATIONS	BOTTOM WIDTH B (FT)	DEPTH D (FT)	TOP WIDTH W (FT)	Z1 (FT)	Z2 (FT)	LINING *
ROADSIDE CHANNEL 1	0+00 - 22+80	2	2	10	2	2	P300 EROSION CONTROL BLANKET
ROADSIDE CHANNEL 2	22+80 - 45+10	0	2	8	2	2	P300 EROSION CONTROL BLANKET
DV1	0+00 - 2+81	0	2	8	2	2	P550 EROSION CONTROL BLANKET
DV2	0+00 - 10+52	0	2	8	2	2	P550 EROSION CONTROL BLANKET
DV3	0+00 - 4+14	0	2	8	2	2	P550 EROSION CONTROL BLANKET
DV4	0+00 - 5+75	0	2	8	2	2	P550 EROSION CONTROL BLANKET
DV5	0+00 - 1+68	0	2	8	2	2	P550 EROSION CONTROL BLANKET
DV6	0+00 - 1+85	0	2	8	2	2	P550 EROSION CONTROL BLANKET
DV7	0+00 - 1+24	0	2	8	2	2	P550 EROSION CONTROL BLANKET
DV8	0+00 - 2+27	0	2	8	2	2	P550 EROSION CONTROL BLANKET
DV9	0+00 - 1+68	0	2	8	2	2	P550 EROSION CONTROL BLANKET
DV10	0+00 - 3+85	0	2	8	2	2	P550 EROSION CONTROL BLANKET
DV11	0+00 - 2+93	0	2	8	2	2	P550 EROSION CONTROL BLANKET
DV12	0+00 - 4+90	2	2	10	2	2	P550 EROSION CONTROL BLANKET

NOTES:

ANCHOR TRENCHES SHALL BE INSTALLED AT BEGINNING AND END OF CHANNEL IN THE SAME MANNER AS LONGITUDINAL ANCHOR TRENCHES.

CHANNEL DIMENSIONS SHALL BE CONSTANTLY MAINTAINED. CHANNEL SHALL BE CLEANED WHENEVER TOTAL CHANNEL DEPTH IS REDUCED BY 25% AT ANY LOCATION.

SEDIMENT DEPOSITS SHALL BE REMOVED WITHIN 24 HOURS OF DISCOVERY OR AS SOON AS SOIL CONDITIONS PERMIT ACCESS TO CHANNEL WITHOUT FURTHER DAMAGE. DAMAGED LINING SHALL BE REPAIRED OR REPLACED WITHIN 48 HOURS OF DISCOVERY.

NO MORE THAN ONE THIRD OF THE SHOOT (GRASS LEAF) SHALL BE REMOVED IN ANY MOWING. GRASS HEIGHT SHALL BE MAINTAINED BETWEEN 2 AND 3 INCHES UNLESS OTHERWISE SPECIFIED. EXCESS VEGETATION SHALL BE REMOVED FROM PERMANENT CHANNELS TO ENSURE SUFFICIENT CHANNEL CAPACITY.

G3 DIVERSION CHANNEL AND ROADSIDE CHANNEL

SCALE: N.T.S.

COMMONWEALTH OF PENNSYLVANIA REGISTERED PROFESSIONAL NICOLAS THOMAS SLATER ENGINEER PE088171

Michael Baker INTERNATIONAL

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100 ARBOR DRIVE
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HOMER CITY STATION
1700 POWER PLANT ROAD
HOMER CITY, PA 15748

DWG. TYPE: CIVIL
TITLE: E&S NOTES & DETAILS

NO.	REVISION	BY	DATE	APVD
A	ISSUED FOR PERMIT	MICHAEL BAKER INTERNATIONAL, LLC	7/7/25	NTS

PROJECT NAME: POWER PLANT ROAD RELOCATION

SCALE	PROJECT NO.	DRAWING NUMBER	SHEET	REV
NTS	PPRR1	C-744-3502	1	A

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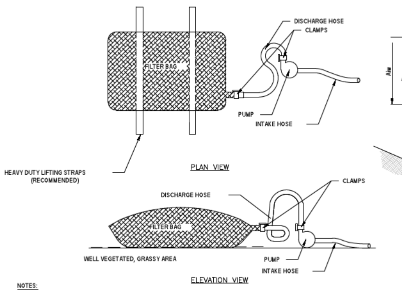


NOTES:

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

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

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

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

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

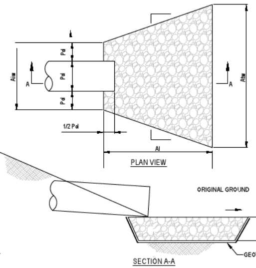
5. THE PUMP DISCHARGE HOSE SHALL BE INSERTED INTO THE BAGS IN THE MANNER SPECIFIED BY THE MANUFACTURER AND SECURELY CLAMPED. A PIECE OF PVC PIPE IS RECOMMENDED FOR THIS PURPOSE.

6. THE PUMPING RATE SHALL BE NO GREATER THAN 750 GPM OR 1/2 THE MAXIMUM SPECIFIED BY THE MANUFACTURER, WHICHEVER IS LESS. PUMP INTAKES SHALL BE FLOATING AND SCREENED.

7. FILTER BAGS SHALL BE INSPECTED DAILY. IF ANY PROBLEM IS DETECTED, PUMPING SHALL CEASE IMMEDIATELY AND NOT RESUME UNTIL THE PROBLEM IS CORRECTED.

E10 PUMPED WATER FILTER BAG

SCALE: N.T.S.



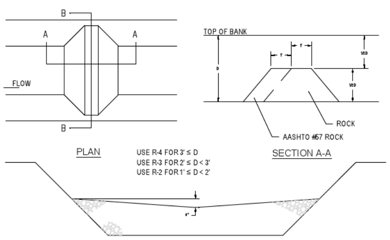
NOTES:
ALL APRONS SHALL BE CONSTRUCTED TO THE DIMENSIONS SHOWN.

ALL APRONS SHALL BE INSPECTED AT LEAST WEEKLY AND AFTER EACH RUNOFF EVENT. DISPLACED RIPRAP WITHIN THE APRON SHALL BE REPLACED IMMEDIATELY.

EXTEND RIPRAP ON BACK SIDE OF APRON TO AT LEAST 1/2 DEPTH OF PIPE ON BOTH SIDES TO PREVENT SCOUR AROUND THE PIPE.

C7 RIPRAP APRON

SCALE: N.T.S.

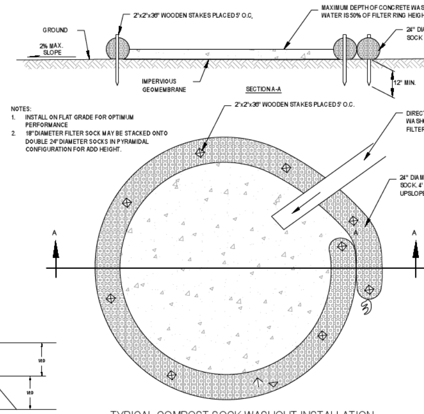


SEDIMENT SHALL BE REMOVED WHEN ACCUMULATIONS REACH 1/3 HEIGHT OF THE OUTLET.

SECTION B-B

E7 ROCK FILTER

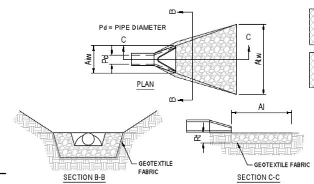
SCALE: N.T.S.



NOTES:
1. INSTALL ON FLAT GRADE FOR OPTIMUM PERFORMANCE
2. 18" DIAMETER FILTER SOCK MAY BE STACKED ONTO DOUBLE 24" DIAMETER SOCKS IN PYRAMIDAL CONFIGURATION FOR ADD HEIGHT.

D4 TYPICAL COMPOST SOCK WASHOUT INSTALLATION

SCALE: N.T.S.

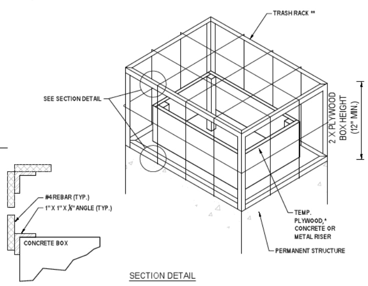


NOTES:
1. D = 1.5 TIMES THE MAX. STONE DIAMETER, BUT NOT LESS THAN 6 INCHES.
2. EXTEND EROSION CONTROL BLANKETING TO BOTTOM OF SLOPE AFTER RIP RAP.

F4 RIPRAP APRON WITH FLARED END SECTION OR ENDWALL

SCALE: N.T.S.

OUTLET NO.	PIPE DIA Pd (IN)	RIPRAP		APRON		
		SIZE R-_	THICK. Rt (IN)	LENGTH Al (FT)	INITIAL WIDTH Aiw (FT)	TERMINAL WIDTH Atw (FT)
RA-1	18	R-4	18	8	4.5	12.5
RA-2	18	R-4	18	8	4.5	12.5
RA-3	18	R-4	18	8	4.5	12.5
RA-4	18	R-4	18	8	4.5	12.5
RA-5	12	R-3	12	6	3	9
RA-6	12	R-3	12	6	3	9
RA-7	12	R-3	12	6	3	9
RA-8	12	R-3	12	6	3	9
RA-9	12	R-3	12	6	3	9
RA-10	12	R-3	12	6	3	9
RA-11	12	R-3	12	6	3	9
RA-12	24	R-4	18	12	6	18
RA-13	12	R-3	12	6	3	9
RA-14	12	R-3	12	6	3	9
RA-15	18	R-4	18	8	4.5	12.5
RA-16	12	R-3	12	6	3	9
RA-17	24	R-4	18	12	6	18



SECTION DETAIL

* 3/4 IN. PRESSURE TREATED PLYWOOD BOX WITH 2 IN. X 2 IN. PRESSURE TREATED CORNER SUPPORTS, SET INTO 1-1/2 IN. GRATE OFFSETS, CAULK ALL SEAMS TO FORM WATERTIGHT SEALS.

** TRASH RACK COMPOSED OF 1 IN. X 1 IN. X 1/8 IN. L (TYP.) AND #4 BARS (TYP.) WELDED TO THE ANGLES AND AT EACH INTERSECTION OF THE BARS; #4 BARS SPACED AT HALF THE DIAMETER OF THE BARREL MAX.

NOTES:

BOX SHALL BE BOLTED, STRAPPED, OR OTHERWISE SECURED TO THE PERMANENT RISER.

TOP OF TEMPORARY RISER EXTENSION SHALL BE AT LEAST AS HIGH AS SEDIMENT BASIN TEMPORARY RISER AND SHALL BE 6 IN. (MINIMUM) BELOW CREST OF EMERGENCY SPILLWAY.

ALL JOINTS SHALL BE WATER TIGHT.

CLOGGED OR DAMAGED SPILLWAYS SHALL BE REPAIRED IMMEDIATELY. TRASH AND OTHER DEBRIS SHALL BE REMOVED FROM THE BASIN AND RISER.

ALL TRASH RACKS SHALL BE PROTECTED FROM CORROSION BY UNDERGOING HOT DIP GALVANIZATION AFTER FABRICATION. ALL STRUCTURAL MATERIAL SHALL MEET ASTM A-123. ALL STRUCTURAL BOLTS SHALL MEET ASTM A-153

G3 TEMPORARY RISER EXTENSION AND TRASH RACK FOR PERMANENT STRUCTURE

SCALE: N.T.S.

TEMPORARY
ERNMX-104

SPECIES	ANNUAL RYEGRASS PERENNIAL RYEGRASS
% PURE LIVE SEED	50% ANNUAL RYEGRASS 50% PERENNIAL RYEGRASS
SEED RATE (PER ACRE)	50 LB
FERTILIZER TYPE	10-10-10
FERTILIZER RATE	500 LB / ACRE
LIMING RATE	1 TON / ACRE
MULCH TYPE	WHEAT STRAW OR OAT STRAW
MULCHING RATE	3 TON / ACRE
SEEDING SEASON DATES	PER MANUFACTURER RECOMMENDATIONS

PERMANENT
ERNMX-113

SPECIES	CREEPING RED FESCUE, ANNUAL RYEGRASS, PERENNIAL RYEGRASS (BLACKSTONE), PERENNIAL RYEGRASS (BIGLEAGUE)
% PURE LIVE SEED	25% CREEPING RED FESCUE 25% ANNUAL RYEGRASS 25% PERENNIAL RYEGRASS (BLACKSTONE) 25% PERENNIAL RYEGRASS (BIGLEAGUE)
SEED RATE (PER ACRE)	100 LB
FERTILIZER TYPE	10-20-20
FERTILIZER RATE	1000 LB / ACRE
LIMING RATE	6 TON / ACRE
MULCH TYPE	WHEAT STRAW OR OAT STRAW
MULCHING RATE	3 TON / ACRE
ANCHOR MATERIAL	N/A
ANCHORING METHOD	MECHANICALLY ANCHORED
ANCHOR MATERIAL RATE	N/A
SEEDING SEASON DATES	PER MANUFACTURER RECOMMENDATIONS

PERMANENT (STEEP SLOPE)
ERNMX-181

SPECIES	INDIANGRASS, ANNUAL RYEGRASS, BIG BLUESTEM, VIRGINIA WILDRYE, CANADA WILDRYE, AUTUMN BENTGRASS, SWITCHGRASS, RTONGUE, PURPLE CONEFLOWER, PARTRIDGE PEA, OXEYE SUNFOLOWER, LANCELEAF COREOPSIS, BLACKEYED SUSAN, WILD BERGAMOT, COMMON MILKWEED, WRINKLELEAF GOLDENROD, CALCIO ASTER, HEATH ASTER
% PURE LIVE SEED	31.1% INDIANGRASS 20% ANNUAL RYEGRASS 14% BIG BLUESTEM 10% VIRGINIA WILDRYE 7% CANADA WILDRYE 4% AUTUMN BENTGRASS 4% SWITCHGRASS 3% DEERTONGUE 1.5% PURPLE CONEFLOWER 1.3% PARTRIDGE PEA 1.2% OXEYE SUNFLOWER 1% LANCELEAF 1% BLACKEYED SUSAN 0.3% WILD BERGAMOT 0.2% COMMON MILKWEED 0.2% WRINKLELEAF GOLDENROD 0.1% CALICO ASTER 0.1 HEATH ASTER
SEED RATE (PER ACRE)	60
FERTILIZER TYPE	10-20-20
FERTILIZER RATE	1000 LB / ACRE
LIMING RATE	6 TON / ACRE
MULCH TYPE	WHEAT STRAW OR OAT STRAW
MULCHING RATE	3 TON / ACRE
ANCHOR MATERIAL	N/A
ANCHORING METHOD	MECHANICALLY ANCHORED
ANCHOR MATERIAL RATE	N/A
SEEDING SEASON DATES	PER MANUFACTURER RECOMMENDATIONS

WETLAND
ERNMX-131

SPECIES	LURID SEDGE, BLUNT BROOM SEDGE, FOX SEDGE, EASTERN BUR REED, VIRGINIA WILDRYE, BLUE VERVAIN, SOFT RUSH, SWAMP MILKWEED, FOWL MANNAGRASS, LANCE LEAVED ASTER, BONESET, SOFSTEM BULRUSH, WRINKLELEAF GOLDENROD, AWL SEDGE, AMERICAN WATER HOREHOUND, WOOLGRASS, SQUARE STEMMED MONKEYFLOWER, MUD PLANTAIN, TUSSOCK SEDGE
% PURE LIVE SEED	27.6% LURID SEDGE 22.5% BLUNT BROOM SEDGE 22.5% FOX SEDGE 6.0% EASTERN BUR REED 5.0% VIRGINIA WILDRYE 4.0% BLUE VERVAIN 3.0% SOFT RUSH 2.0% SWAMP MILKWEED 1.5% FOWL MANNAGRASS 1.0% LANCE LEAVED ASTER 1.0% BONESET 1.0% SOFSTEM BULRUSH 0.7% WRINKLELEAF GOLDENROD 0.5% AWL SEDGE 0.5% AMERICAN WATER HOREHOUND 0.5% WOOLGRASS 0.3% SQUARE STEMMED MONKEYFLOWER 0.2% MUD PLANTAIN 0.2% TUSSOCK SEDGE
SEED RATE (PER ACRE)	20
MULCH TYPE	WHEAT STRAW OR OAT STRAW
MULCHING RATE	3 TON / ACRE
ANCHOR MATERIAL	N/A
ANCHORING METHOD	MECHANICALLY ANCHORED
ANCHOR MATERIAL RATE	N/A
SEEDING SEASON DATES	PER MANUFACTURER RECOMMENDATIONS

H10 SEEDING MIX

SCALE: N.T.S.

COMMONWEALTH OF PENNSYLVANIA
REGISTERED PROFESSIONAL
NICOLAS THOMAS SLATER
ENGINEER
PE095171
07/28/2025

REV	DATE	MADE	ENGR	SUPV/MGR
A	07/02/25	MM	NS	EZ

MICHAEL BAKER INTERNATIONAL, LLC

Michael Baker INTERNATIONAL
MICHAEL BAKER INTERNATIONAL, LLC
100 AIRSIDE DRIVE
MOON TOWNSHIP, PA 15108

HOMER CITY STATION
1750 POWER PLANT ROAD
HOMER CITY, PA 15748

DWG. TYPE: CIVIL
TITLE: E&S NOTES & DETAILS
PROJECT NAME: POWER PLANT ROAD RELOCATION

SCALE	PROJECT NO.	DRAWING NUMBER	SHEET	REV
NTS	PPRR1	C-744-3503	1	A

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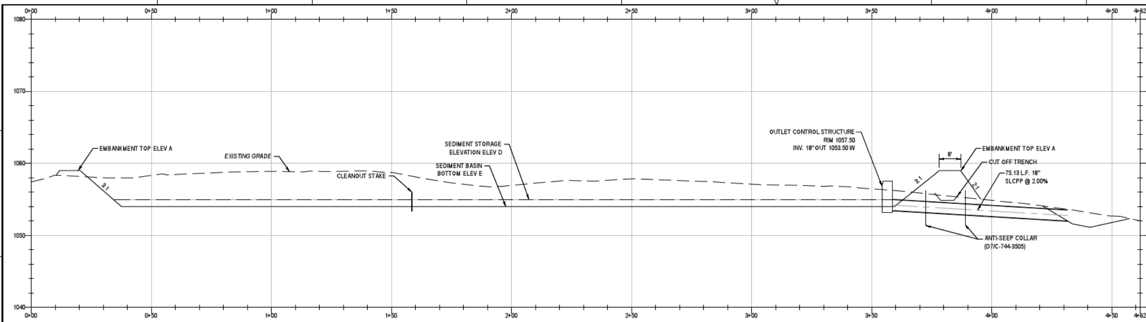
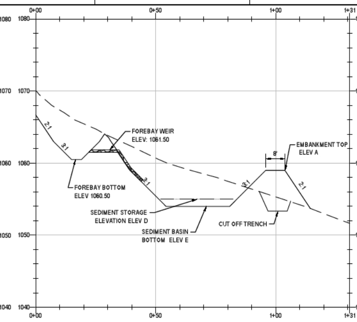


SECTION A-A

C10

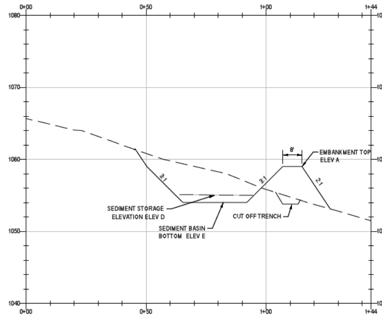
SCALE: 1"=30' H ; 1"=10' V



SECTION B-B

C3

SCALE: 1"=30' H ; 1"=10' V



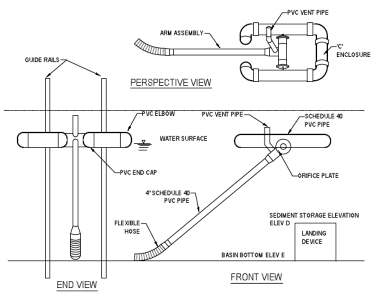
SECTION C-C

F3

SCALE: 1"=30' H ; 1"=10' V

SEDIMENT BASIN CONSTRUCTION NOTES:

1. SEDIMENT BASINS, INCLUDING ALL APPURTENANT WORKS, SHALL BE CONSTRUCTED TO THE DETAIL AND DIMENSIONS SHOWN ON THE E&S PLAN DRAWINGS.
2. ACCESS FOR SEDIMENT REMOVAL AND OTHER REQUIRED MAINTENANCE ACTIVITIES SHALL BE PROVIDED.
3. CONCRETE BASE SHALL BE POURED IN SUCH A MANNER SO AS TO INSURE THAT CONCRETE FILLS BOTTOM OF RISER TO INVERT OF THE OUTLET PIPE TO PREVENT RISER FROM BREAKING AWAY FROM THE BASE OR PRECAST EXTENDED BASE.
4. THE AREA UNDER EMBANKMENT SHALL BE CLEARED, GRUBBED, AND STRIPPED OF TOPSOIL TO A DEPTH OF TWO FEET PRIOR TO ANY PLACEMENT AND COMPACTION OF EARTHEN FILL.
5. THE EMBANKMENT SHALL BE COMPACTED IN LAYERED LIFTS OF NOT MORE THAN 6" TO 9". THE MAXIMUM ROCK SIZE SHALL BE NO GREATER THAN 2/3 THE LIFT THICKNESS. FIVE PASSES OF THE COMPACTION EQUIPMENT OVER THE ENTIRE SURFACE OF EACH LIFT IS REQUIRED. EMBANKMENT COMPACTION TO VISIBLE NON-MOVEMENT IS ALSO REQUIRED.
6. SOILS ACCEPTABLE FOR EMBANKMENT CONSTRUCTION SHOULD BE LIMITED TO GC, GM, SC, SM, CL OR ML AS DESCRIBED IN ASTMD-2487 (UNIFIED SOILS CLASSIFICATION). FILL MATERIAL FOR THE EMBANKMENTS SHALL BE FREE OF ROOTS, OR OTHER WOODY VEGETATION, ORGANIC MATERIAL, LARGE STONES, AND OTHER OBJECTIONABLE MATERIALS.
7. THE KEY TRENCH SHALL HAVE A MINIMUM TRENCH DEPTH = 2', MINIMUM WIDTH = 4', MAXIMUM SIDE SLOPE STEEPNESS IS 1H:1V. THE TRENCH SHALL EXTEND UP BOTH ABUTMENTS TO THE RISER CREST ELEVATION. COMPACTION REQUIREMENTS SHALL BE THE SAME AS THOSE FOR THE EMBANKMENT. THE TRENCH SHALL BE DEWATERED DURING BACKFILLING AND COMPACTION OPERATIONS.
8. ANY SPRINGS ENCOUNTERED IN THE FOUNDATION AREA OF THE POND EMBANKMENT SHALL BE DRAINED TO THE OUTSIDE/DOWNSTREAM TOE OF THE EMBANKMENT WITH A DRAIN SECTION TWO FEET BY TWO FEET IN DIMENSION CONSISTING OF PENNDOT TYPE A SAND, COMPACTED BY HAND TAMPER. NO GEOTEXTILES ARE TO BE USED AROUND THE SAND. THE LAST THREE FEET OF THIS DRAIN AT THE OUTSIDE/DOWNSTREAM SLOPE SHALL BE CONSTRUCTED WITH AASHTO #8 MATERIAL.
9. A CLEAN OUT STAKE SHALL BE PLACED NEAR THE CENTER OF EACH BASIN. ACCUMULATED SEDIMENT SHALL BE REMOVED WHEN IT HAS REACHED THE CLEAN OUT ELEVATION ON THE STAKE AND RESTORE THE BASIN TO ITS ORIGINAL DIMENSIONS. DISPOSE OF MATERIALS REMOVED FROM THE BASIN IN THE MANNER DESCRIBED IN THE E&S PLAN.
10. TYPE OF PIPE SHALL BE SLCPP (SMOOTH LINED CORRUGATED PLASTIC PIPE).
11. INSPECT ALL SEDIMENT BASINS ON AT LEAST A WEEKLY BASIS AND AFTER EACH RUNOFF EVENT. CHECK BASIN EMBANKMENTS, SPILLWAYS, AND OUTLETS FOR EROSION, PIPING AND SETTLEMENT. NECESSARY REPAIRS SHALL BE MADE IMMEDIATELY. DISPLACED RIPRAP WITHIN THE OUTLET ENERGY DISSIPATER SHALL BE REPLACED IMMEDIATELY. ACCUMULATED SEDIMENT SHALL BE REMOVED AND DISTURBED AREAS SHALL BE STABILIZED INSIDE THE BASIN BEFORE CONVERSION TO A STORMWATER MANAGEMENT FACILITY.
12. CHECK EMBANKMENTS, SPILLWAYS, AND OUTLETS FOR EROSION, PIPING AND SETTLEMENT, CLOGGED OR DAMAGED SPILLWAYS AND/OR EMBANKMENTS SHALL BE RESTORED TO THE DESIGN SPECIFICATIONS.
13. CLOGGED OR DAMAGED SPILLWAYS SHALL BE REPAIRED IMMEDIATELY. TRASH AND OTHER DEBRIS SHALL BE REMOVED FROM THE BASIN AND RISER.
14. PROVIDE MANHOLE STEPS IN PERMANENT RISER WHEN THE DEPTH BETWEEN THE TOP OF RISER BOX AND THE TOP OF BOTTOM SLAB ELEVATION IS GREATER THEN 5'-0". PROVIDE MANOLE STEPS TO WITHIN 18" OF THE BOTTOM SLAB. MANHOLE STEPS SHALL BE IN ACCORDANCE WITH PENNDOT PUBLICATION, 408 SECTION 605.2(C).



NOTES:

ORIFICE DIAMETER MUST BE EQUAL TO OR LESS THAN ARM DIAMETER

A ROPE SHALL BE ATTACHED TO THE SKIMMER ARM TO FACILITATE ACCESS TO THE SKIMMER ONCE INSTALLED.

SKIMMER SHALL BE INSPECTED WEEKLY AND AFTER EACH RUNOFF EVENT. ANY MALFUNCTIONING SKIMMER SHALL BE REPAIRED OR REPLACED WITHIN 24 HOURS OF INSPECTION.

ICE OR SEDIMENT BUILDUP AROUND THE PRINCIPAL SPILLWAY SHALL BE REMOVED SO AS TO ALLOW THE SKIMMER TO RESPOND TO FLUCTUATING WATER ELEVATIONS.

SEDIMENT SHALL BE REMOVED FROM THE BASIN WHEN IT REACHES THE LEVEL MARKED ON THE CLEAN-OUT STAKE OR THE TOP OF THE LANDING DEVICE.

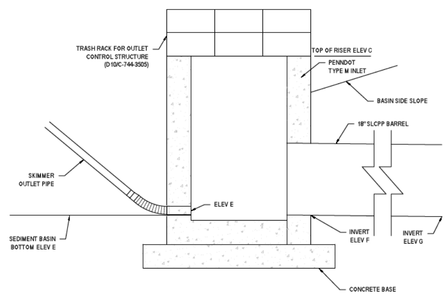
A SEMI-CIRCULAR LANDING ZONE MAY BE SUBSTITUTED FOR THE GUIDE RAILS (G10/C-744-3505).

POWER PLANT ROAD RELOCATION					
NAME	Skimmer Size	Orifice Size Dia.	Orifice RAD.	Required Basin Volume	Days to Drain
BMP 1: SEDIMENT BASIN	3"	2 13/16"	1 3/8"	34,052	4

H8 SEDIMENT BASIN SKIMMER

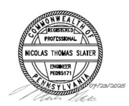
SCALE: N.T.S.

BMP	EMBANKMENT TOP ELEV A	EMERGENCY SPILLWAY CREST ELEV B	TOP OF RISER ELEV C	SEDIMENT STORAGE ELEVATION ELEV D	SEDIMENT BASIN BOTTOM ELEV E	INVERT ELEV F	INVERT ELEV G
BMP 1: SEDIMENT BASIN	1059.00	1058.00	1057.50	1055.00	1054.00	1053.50	1052.00



H6 PERMANENT OUTLET RISER

SCALE: N.T.S.



A	07/02/25	MM	NS	EZ
REV	DATE	MADE	ENGR	SUPV/MGR

MICHAEL BAKER INTERNATIONAL, LLC

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100 AIRSIDE DRIVE
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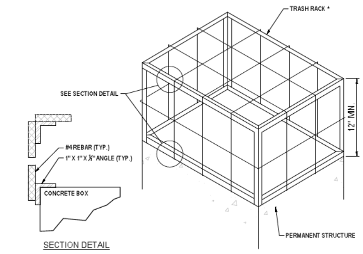
HOMER CITY STATION
1750 POWER PLANT ROAD
HOMER CITY, PA 15748

DWG. TYPE: CIVIL

TITLE: E&S NOTES & DETAILS

PROJECT NAME: POWER PLANT ROAD RELOCATION

SCALE	PROJECT NO.	DRAWING NUMBER	SHEET	REV
NTS	PPRR1	C-744-3504	1	A



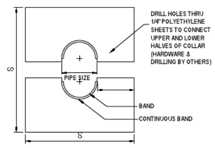
*TRASH RACK COMPOSED OF 1 IN. X 1 IN. X 1/8 IN. L (TYP.) AND #4 BARS (TYP.) WELDED TO THE ANGLES AND AT EACH INTERSECTION OF THE BARS; #4 BARS SPACED AT HALF THE DIAMETER OF THE BARREL MAX.

NOTES:

1. BOX SHALL BE BOLTED, STRAPPED, OR OTHERWISE SECURED TO THE PERMANENT RISER.
2. ALL JOINTS SHALL BE WATER TIGHT.
3. CLOGGED OR DAMAGED SPILLWAYS SHALL BE REPAIRED IMMEDIATELY. TRASH AND OTHER DEBRIS SHALL BE REMOVED FROM THE BASIN AND RISER.
4. ALL TRASH RACKS SHALL BE PROTECTED FROM CORROSION BY UNDERGOING HOT DIP GALVANIZATION AFTER FABRICATION. ALL STRUCTURAL MATERIAL SHALL MEET ASTM A-123. ALL STRUCTURAL BOLTS SHALL MEET ASTM A-153

D10 TRASH RACK FOR OUTLET CONTROL STRUCTURE

SCALE: N.T.S.



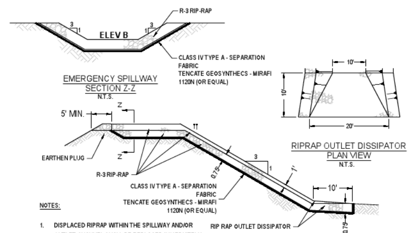
BMP	BASIN OR TRAP	PIPE SIZE (IN)	NO. OF COLLARS (N)	S (IN)
BMP 1	BASIN	18	2	42

NOTES:

1. MINIMUM DISTANCE TO PIPE JOINT SHALL BE 2 FEET.
2. ALL COLLARS SHALL BE INSTALLED SO AS TO BE WATERTIGHT.

D7 HDPE ANTI-SEEP COLLAR

SCALE: N.T.S.



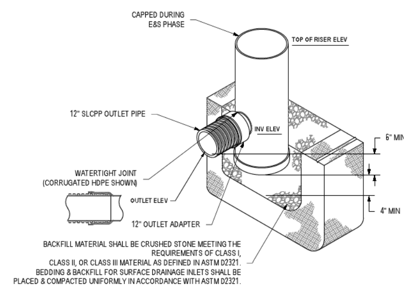
NOTES:

1. DISPLACED RIPRAP WITHIN THE SPILLWAY AND/OR OUTLET CHANNEL SHALL BE REPLACED IMMEDIATELY.

D5 EMERGENCY SPILLWAY

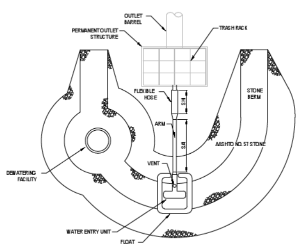
SCALE: N.T.S.

BMP	TOP OF RISER ELEV	INV ELEV	OUTLET PIPE LENGTH & SLOPE	OUTLET ELEV
RISER-1	1061.00	1057.75	25 LF @ 1.00%	1057.50
RISER-2	1061.00	1057.75	25 LF @ 1.00%	1057.50



D3 12" DRAIN BASIN

SCALE: N.T.S.



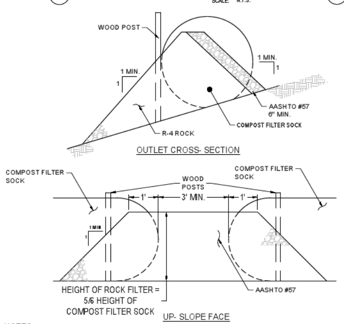
NOTES:

NO GUIDE RAILS SHALL BE REQUIRED FOR THIS INSTALLATION.

THIS DETAIL SHALL BE USED IN CONJUNCTION WITH STANDARD CONSTRUCTION DETAILS #7-2 AND #7-4.

G10 SKIMMER WITH STONE LANDING BERM

SCALE: N.T.S.

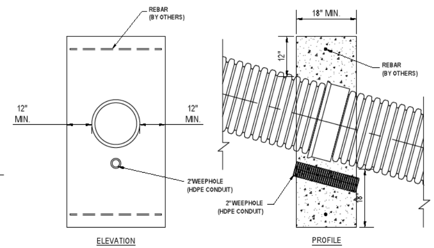


NOTES:

1. A ROCK FILTER OUTLET SHALL BE INSTALLED WHERE FAILURE OF A COMPOST FILTER SOCK HAS OCCURRED DUE TO CONCENTRATED FLOW.
2. SEDIMENT MUST BE REMOVED WHEN ACCUMULATIONS REACH 1/3 THE HEIGHT OF THE OUTLET.

G8 ROCK FILTER OUTLET

SCALE: N.T.S.

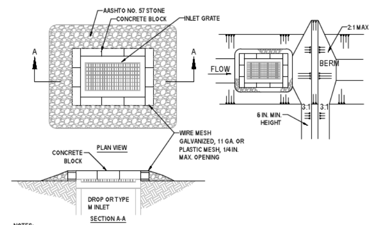


NOTES:

1. PIPE TO BE INSTALLED PER MANUFACTURERS RECOMMENDATIONS.
2. ANCHORS SHALL BE PLACED EVERY JOINT.
3. VELOCITY REDUCTION METHODS SHALL BE TAKEN WHEN SLOPE CREATES VELOCITY GREATER THAN 20 FPS.

G5 CONCRETE SLOPE ANCHOR

SCALE: N.T.S.



NOTES:

1. MAXIMUM DRAINAGE AREA = 1 ACRE.
2. INLET PROTECTION SHALL NOT BE REQUIRED FOR INLET TRIBUTARY TO SEDIMENT BASIN OR TRAP. BERMS SHALL BE REQUIRED FOR ALL INSTALLATIONS NOT LOCATED AT A LOW POINT.
3. ROLLED EARTHEN BERM IN ROADWAY SHALL BE PROVIDED AND MAINTAINED IMMEDIATELY DOWN GRADIENT OF THE PROTECTED INLET UNTIL ROADWAY IS STONED. ROAD SUBBASE BERM ON ROADWAY SHALL BE MAINTAINED UNTIL ROADWAY IS PAVED. EARTHEN BERM IN CHANNEL SHALL BE MAINTAINED UNTIL PERMANENT STABILIZATION IS COMPLETED OR TO REMAIN PERMANENTLY.
4. TOP OF BLOCK SHALL BE AT LEAST 6 INCHES BELOW ADJACENT ROADS IF PONDED WATER WOULD POSE A SAFETY HAZARD TO TRAFFIC.
5. SEDIMENT SHALL BE REMOVED WHEN IT REACHES HALF THE HEIGHT OF THE STONE. DAMAGED OR CLOGGED INSTALLATIONS SHALL BE REPAIRED OR REPLACED IMMEDIATELY.
6. FOR SYSTEMS DISCHARGING TO HQ OR EV SURFACE WATER, A 6 INCH THICK COMPOST LAYER SHALL BE SECURELY ANCHORED ON OUTSIDE AND OVER TOP OF STONE. COMPOST SHALL MEET THE STANDARDS IN TABLE 4.2 OF THE PA DEP EROSION CONTROL MANUAL.

G3 STONE AND CONCRETE BLOCK INLET PROTECTION (TYPE M)

SCALE: N.T.S.

REV	DATE	MADE	ENGR	SUPV/MGR
A	07/02/25	MM	NS	EZ

MICHAEL BAKER INTERNATIONAL, LLC

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100 AIRSIDE DRIVE
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HOMER CITY STATION
1750 POWER PLANT ROAD
HOMER CITY, PA 15748

DWG. TYPE: CIVIL
TITLE: E&S NOTES & DETAILS
PROJECT NAME: POWER PLANT ROAD RELOCATION

SCALE	PROJECT NO.	DRAWING NUMBER	SHEET	REV
NTS	PPRR1	C-744-3505	1	A

HOMER CITY CAD FILE: \\MOONPA1CL1\LD8\HOMER CITY GENERATING STATION\202965 – POWER PLANT ROAD RELOCATION\05_DELIVERABLES\DRAWINGS\05 C_CIVIL\SHEET FILES\202965_CE5XX.DWG PLOT DATE:7/23/2025 10:21 PM