PHASE IV (CS9004)
EACH STAGE OF THE SEQUENCE MUST BE COMPLETED PRIOR TO INITIATION OF THE NEXT STAGE OF THE SEQUENCE OF EARTH MOVING OPERATIONS WITHIN THIS PHASE.

1. ENSURE ALL FIELD-MARKINGS OF LIMITS OF DISTURBANCE, WATERS OF THE COMMONWEALTH AND SENSITIVE RESOURCES TO BE SAVED ARE ADEQUATE FOR PHASE IV.
2. BMPS FOR PHASE III, INCLUDING BUT NOT LIMITED TO SILT FENCES, ORANGE CONSTRUCTION FENCE, SEDIMENT BASINS 1, 1A, AND 3, REMAIN IN-PLACE IN THE POWER BLOCK AREA, PARKING LOT, AND STOCK PILE(AREAS 2, 3 AND 4). THE PERIMETER CONTROLS AS SHOWN ON THE PLANS WILL REMAIN IN PLACE UNTIL CONSTRUCTION OF PRIMARY POWER PLANT STRUCTURES HAS PROGRESSED SUFFICIENTLY TO PERMIT BACKFILL OPERATIONS AND FINAL GRADING IN THE AREA. ENSURE ALL ARE INSTALLED AND FUNCTIONING PROPERLY. BMPS TO REMAIN IN PLACE INCLUDE SILT FENCE, SEDIMENT BASINS 1 AND 1A.
3. BEGIN MASS EXCAVATION OF THE POWER BLOCK AND ESWEMS POND. AS EXCAVATION PROGRESSES INSTALL TEMPORARY EXCAVATION DEWATERING FEATURES, INCLUDING BUT NOT LIMITED TO PUMPED WATER FILTER BAGS, TEMPORARY DEWATERING POND, STILLING BASIN, DEWATERING PUMP, AND SPRAY IRRIGATION PLAN. SEE DE-WATER PLAN APPENDIX F.
4. AS ROUGH GRADING OF THE POWER BLOCK AREA PROGRESSES, CLEAR THE PARKING AREA WITHIN THE LIMITS OF DISTURBANCE (AREA 4). RELOCATE EXISTING UTILITIES IN THE IN THE AREAS OF CONSTRUCTION (AREA 4).
5. STRIP ORGANIC MATERIAL FROM THE PARKING AREA WITHIN THE LIMITS OF DISTURBANCE (AREA 4). HAUL ORGANIC MATERIAL TO THE PERMANENT SPOILS AREA AS SHOWN ON THE PLANS.
6. BEGIN ROUGH GRADING IN THE PARKING AREA (AREA 4) MOVING CUT MATERIAL FROM THE POWER BLOCK AREA (AREA 3) TO FILL LOW SPOTS.
7. INSTALL FOUNDATIONS FOR STRUCTURES LOCATED IN THE PARKING AREA AS SHOWN ON THE PLANS (AREA 4).
8. AS ROUGH GRADING CONTINUES IN THE PARKING AREA (AREA 4), INSTALL STORM DRAIN SYSTEM PIPING AND CONNECT TO INFILTRATION BASIN 9. INSTALL FILTER BAGS AT ALL CATCH BASIN INLETS.
9. INSTALL WATER AND SANITARY SEWER SERVICES IN THE PARKING AREA FROM SANITARY SEWER LIFT STATION AND WATER METER HOUSE TO THE SOUTH ABUTMENT FOR BRIDGE 7. INSTALL TEMPORARY PIPE CLOSURES AT TERMINATION POINTS.
10. INSTALL WATER, SANITARY SEWER, AND ELECTRICAL SERVICES TO STRUCTURES LOCATED IN THE PARKING AREA (AREA 4).
11. AS ROUGH GRADING OF ACCESS ROADS AND PARKING LOTS ARE ACHIEVED IN THE PARKING AREA (AREA 4), INSTALL GEOTEXTILE FABRIC FOLLOWED BY INSTALLATION OF AGGREGATE SUB BASE AS SHOWN ON THE PLANS.
12. AS ROUGH GRADING IN THE PARKING LOT PROGRESSES, INSTALL INFILTRATION BASINS 1.1, 1.2, 1.3 AND DETENTION BASIN 1.5 MAKING SURE TO INSTALL SILT FENCE ON THE UPSLOPE SIDE OF THE EXCAVATION PIT TO ELIMINATE SEDIMENT LADEN WATER FROM ENTERING THE EXCAVATION PIT.
13. WHEN SUPERSTRUCTURE FOR BRIDGE 7 IS COMPLETE, INSTALL WATER AND SEWER SERVICES BETWEEN THE NORTH AND SOUTH ABUTMENTS FOR BRIDGE 7 AND CONNECT TO PREVIOUSLY INSTALLED PIPING.
14. FINAL GRADE PARKING AREA AND INSTALL SUB-BASE PAVEMENT AS SHOWN ON PLANS (AREA 4).
15. AS SUFFICIENT SITE STABILIZATION OCCURS, REMOVE SEDIMENT BASINS 1 AND 1A. FINALIZE PROPOSED DEVELOPMENT WHERE SEDIMENT BASINS 1 AND 1A WERE REMOVED UNDER PERIMETER CONTROLS AS SHOWN ON THE PLANS.
16. PERMANENTLY SEED GRADED SLOPES IN THE PARKING AREA (AREA 4) INCLUDING SWALES AND DRAINAGE TRENCHES AND CLEAN ALL WATER CONVEYANCE FACILITIES. AN AREA SHALL BE CONSIDERED TO HAVE ACHIEVED FINAL STABILIZATION WHEN IT HAS A MINIMUM UNIFORM 70% PERENNIAL VEGETATIVE COVER OR OTHER NON-VEGETATIVE COVER WITH A DENSITY SUFFICIENT TO RESIST ACCELERATED SURFACE EROSION AND SUBSURFACE CHARACTERISTICS SUFFICIENT TO RESIST SLIDING AND OTHER MOVEMENTS.
17. REMOVE ALL PERIMETER CONTROLS FROM THE PARKING AREA (AREA 4) THAT INCLUDE: SUPER SILT FENCE, SILT FENCE AND INLET FILTER BAGS AS SHOWN ON PLANS.
18. STABILIZE THE AREAS WHERE TEMPORARY BMPS WERE LOCATED IN THE PARKING AREA (AREA 4). DISPOSE OF ANY SEDIMENT AS OUTLINED IN THE MAINTENANCE NOTES.
19. INSTALL PLANT UTILITY SERVICE LINES IN THE POWER BLOCK AREA (AREA 3). INSTALL TEMPORARY PIPE CLOSURES AT ALL TERMINATION POINTS.
20. COMPLETE ROUGH GRADING IN THE EASTERN HALF OF THE POWER BLOCK, FINAL GRADING ACCESS ROADS (STA 117+00 TO STA 145+00). INSTALL GEOTEXTILE FABRIC FOLLOWED BY INSTALLATION OF AGGREGATE SUB BASE (AREA 3)
21. INSTALL RAIL BED (STA 562+00 TO 591+00) AND STABILIZE SLOPES AS SHOWN ON THE PLANS WITH SLOPE MATTING/VEGETATION. PERIMETER CONTROLS SHALL BE PLACED ON ALL CUT/FILL SLOPES AS WELL.
22. INSTALL ACCESS ROAD SUB-BASE PAVEMENT (STA 117+00 TO STA 145+00) AS SHOWN ON PLANS.
23. PERMANENTLY SEED GRADED SLOPES AND LARGE OPEN AREAS IN EASTERN HALF OF POWER BLOCK AREA (AREA 3) INCLUDING SWALES AND DRAINAGE TRENCHES. CLEAN ALL INSTALLED WATER CONVEYANCE FACILITIES IN THE EASTERN HALF OF THE POWER BLOCK AREA. AN AREA SHALL BE CONSIDERED TO HAVE ACHIEVED FINAL STABILIZATION WHEN IT HAS A MINIMUM UNIFORM 70% PERENNIAL VEGETATIVE COVER OR OTHER NON-VEGETATIVE COVER WITH A DENSITY SUFFICIENT TO RESIST ACCELERATED SURFACE EROSION AND SUBSURFACE CHARACTERISTICS SUFFICIENT TO RESIST SLIDING AND OTHER MOVEMENTS.
24. CONTINUE ROUGH GRADING IN THE WESTERN HALF OF THE POWER BLOCK AREA (AREA 3)
25. STABILIZE CONSTRUCTION LAY-DOWN AREAS IN THE NORTHWEST QUADRANT OF THE POWER BLOCK; INSTALL GEOTEXTILE FABRIC AND AGGREGATE SUB BASE (AREA 3).
26. PERMANENTLY SEED GRADED SLOPES, SWALES AND DRAINAGE TRENCHES AND CLEAN ALL INSTALLED WATER CONVEYANCE FACILITIES IN THE NORTHWEST QUADRANT OF THE POWER BLOCK AREA (AREA 3). AN AREA SHALL BE CONSIDERED TO HAVE ACHIEVED FINAL STABILIZATION WHEN IT HAS A MINIMUM UNIFORM 70% PERENNIAL VEGETATIVE COVER OR OTHER NON-VEGETATIVE COVER WITH A DENSITY SUFFICIENT TO RESIST ACCELERATED SURFACE EROSION AND SUBSURFACE CHARACTERISTICS SUFFICIENT TO RESIST SLIDING AND OTHER MOVEMENTS.
27. REMOVE PERIMETER CONTROLS FROM THE POWER BLOCK AREA AND PARKING LOT AREA AS SHOWN ON THE PLANS (AREA 3 & 4) THAT INCLUDE: SUPER SILT FENCE, SILT FENCE, SILT DIKE AND INLET FILTER BAGS AS SHOWN ON PLANS.
28. STABILIZE THE AREAS WHERE TEMPORARY BMPS WERE LOCATED IN THE POWER BLOCK AREA. DISPOSE OF ANY SEDIMENT AS OUTLINED IN THE MAINTENANCE NOTES.

PHASE V (CS9005)
EACH STAGE OF THE SEQUENCE MUST BE COMPLETED PRIOR TO INITIATION OF THE NEXT STAGE OF THE SEQUENCE OF EARTH MOVING OPERATIONS WITHIN THIS PHASE.

1. FIELD-MARK THE LIMITS OF DISTURBANCE, ALL WATERS OF THE COMMONWEALTH, SENSITIVE RESOURCES TO BE SAVED, AND PROPOSED INFILTRATION AREAS FOR PHASE V (AREA 9).
2. INSTALL ROCK CONSTRUCTION ENTRANCE 5A (ALONG THOMAS RD.) AS SHOWN ON THE PLANS.
3. INSTALL ALL PERIMETER CONTROLS FOR PHASE V: SUPER SILT FENCE AND SILT FENCE AS SHOWN ON PLANS (AREA 9).
4. CLEAR THE ACCESS ROAD AREA FROM THOMAS ROAD TO THE SUSQUEHANNA NO 1 500KV SWITCHYARD AREA WITHIN THE LIMITS OF DISTURBANCE (AREA 9). RELOCATE EXISTING UTILITIES IN THE IN THE AREAS OF CONSTRUCTION (AREA 9).
5. STRIP ORGANIC MATERIAL FROM THE ACCESS ROAD AREA FROM THOMAS ROAD TO THE SUSQUEHANNA NO 1 500KV SWITCHYARD WITHIN THE LIMITS OF DISTURBANCE (AREA 9). HAUL ORGANIC MATERIAL TO STOCK PILE LOCATION AS SHOWN ON THE PLANS.
6. ROUGH GRADE THE ACCESS ROAD FROM THOMAS ROAD TO THE SUSQUEHANNA NO 1 500KV SWITCHYARD (AREA 9). AS ROUGH GRADING OF ACCESS ROAD IS ACHIEVED, INSTALL GEOTEXTILE FABRIC FOLLOWED BY INSTALLATION OF AGGREGATE SUB BASE AS SHOWN ON THE PLANS. PERIMETER BMPS SHALL BE INSTALLED ON ALL DISTURBED CUT/FILL SLOPES.
7. AS CONSTRUCTION PROGRESSES FROM THOMAS ROAD TOWARD THE 500KV SWITCHYARD AREA INSTALL VEGETATED SWALES BEGINNING AT THE DISCHARGE POINT AND WORKING UP SLOPE, STABILIZED ALONG THE WAY WITH LINING AS SHOWN ON THE PLAN.
8. PERMANENTLY SEED GRADED SLOPES, SWALES AND DRAINAGE TRENCHES ALONG THE ACCESS ROAD FROM THOMAS ROAD TO THE SUSQUEHANNA NO 1 500KV SWITCHYARD (AREA 9). AN AREA SHALL BE CONSIDERED TO HAVE ACHIEVED FINAL STABILIZATION WHEN IT HAS A MINIMUM UNIFORM 70% PERENNIAL VEGETATIVE COVER OR OTHER NON-VEGETATIVE COVER WITH A DENSITY SUFFICIENT TO RESIST ACCELERATED SURFACE EROSION AND SUBSURFACE CHARACTERISTICS SUFFICIENT TO RESIST SLIDING AND OTHER MOVEMENTS.
9. INSTALL SEDIMENT BASINS 15 AND 15 A WITH ALL RELATED APPURTENANCES, INCLUDING BUT NOT LIMITED TO SLOPE MATTING AND SILT FENCE ON ALL CUT/FILL SLOPES. STABILIZE INTERIOR AND EXTERIOR SLOPES OF BASIN EMBANKMENTS IMMEDIATELY UPON COMPLETION OF BASIN CONSTRUCTION.
10. CLEAR THE SUSQUEHANNA NO 1 500KV SWITCHYARD AREA WITHIN THE LIMITS OF DISTURBANCE (AREA 9).
11. STRIP ORGANIC MATERIAL FROM THE SUSQUEHANNA NO 1 500KV SWITCHYARD WITHIN THE LIMITS OF DISTURBANCE (AREA 9).
12. BEGIN ROUGH GRADING IN THE SUSQUEHANNA NO 1 500KV SWITCHYARD (AREA 9).
13. WHILE ROUGH GRADING IN THE SUSQUEHANNA NO 1 500KV SWITCHYARD AREA PROGRESSES, INSTALL INFILTRATION BASIN 15.3 MAKING SURE TO INSTALL SILT FENCE ON THE UPSLOPE SIDE OF THE EXCAVATION PIT TO ELIMINATE SEDIMENT LADEN WATER FROM ENTERING THE EXCAVATION PIT.
14. INSTALL FOUNDATIONS FOR STRUCTURES LOCATED IN THE SUSQUEHANNA NO 1 500KV SWITCHYARD AREA AS SHOWN ON THE PLANS (AREA 9).
15. INSTALL STORM DRAIN SYSTEM PIPING AND CONNECT TO INFILTRATION BASIN 15.3. INSTALL FILTER BAGS AT ALL CATCH BASIN INLETS.
16. STABILIZE THE SUSQUEHANNA NO 1 500KV SWITCHYARD AREA WITH CRUSHED STONE AS SHOWN ON THE PLANS (AREA 9).
17. FINAL GRADE THE ACCESS ROAD FROM THOMAS ROAD TO THE SUSQUEHANNA NO 1 500KV SWITCHYARD AREA AND INSTALL CRUSHED STONE SURFACING MATERIAL.
18. PERMANENTLY SEED PERIMETER GRADED SLOPES, SWALES AND DRAINAGE TRENCHES AND CLEAN ALL WATER CONVEYANCE FACILITIES IN THE SUSQUEHANNA NO 1 500KV SWITCHYARD AREA (AREA 9). AN AREA SHALL BE CONSIDERED TO HAVE ACHIEVED FINAL STABILIZATION WHEN IT HAS A MINIMUM UNIFORM 70% PERENNIAL VEGETATIVE COVER OR OTHER NON-VEGETATIVE COVER WITH A DENSITY SUFFICIENT TO RESIST ACCELERATED SURFACE EROSION AND SUBSURFACE CHARACTERISTICS SUFFICIENT TO RESIST SLIDING AND OTHER MOVEMENTS.
19. AS SUFFICIENT STABILIZATION OCCURS REMOVE SEDIMENT BASINS 15 AND 15A.
20. FINALIZE PROPOSED DEVELOPMENT WHERE SEDIMENT BASINS 15 & 15A WERE REMOVED UNDER PERIMETER CONTROLS AS SHOWN ON THE PLANS.
21. REMOVE ALL PERIMETER CONTROLS FROM THE SUSQUEHANNA NO 1 500KV SWITCHYARD AREA AND FROM ALONG THE ACCESS ROAD TO THE SWITCHYARD (AREA 9) THAT INCLUDE: SUPER SILT FENCE, SILT FENCE AND INLET FILTER BAGS AS SHOWN ON PLANS.
22. STABILIZE THE AREAS WHERE TEMPORARY BMPS WERE LOCATED IN THE SUSQUEHANNA NO 1 500KV SWITCHYARD AREA AND ALONG THE ACCESS ROAD (AREA 9). DISPOSE OF ANY SEDIMENT AS OUTLINED IN THE MAINTENANCE NOTES.

PHASE VI (CS9006)
EACH STAGE OF THE SEQUENCE MUST BE COMPLETED PRIOR TO INITIATION OF THE NEXT STAGE OF THE SEQUENCE OF EARTH MOVING OPERATIONS WITHIN THIS PHASE.

1. FIELD-MARK THE LIMITS OF DISTURBANCE, ALL WATERS OF THE COMMONWEALTH, SENSITIVE RESOURCES TO BE SAVED, AND PROPOSED INFILTRATION AREAS FOR PHASE VI (AREA 8).
2. INSTALL ROCK CONSTRUCTION ENTRANCE 6A AS SHOWN ON THE PLANS.
3. INSTALL ALL PERIMETER CONTROLS: SUPER SILT FENCE AND SILT FENCE AS SHOWN ON PLANS (AREA 8).
4. CLEAR AREAS OF CONSTRUCTION WITHIN THE LIMITS OF DISTURBANCE FOR PHASE VI (AREA 8).
5. STRIP ORGANIC MATERIAL FROM THE AREAS OF CONSTRUCTION WITHIN THE LIMITS OF PHASE VI (AREA 8).
6. STABILIZE THE CONSTRUCTION LAYDOWN BY PLACE GEOTEXTILE FABRIC AND AGGREGATE SUB BASE PER PHMC REQUIRED MITIGATION.
7. SEED PERIMETER GRADED SLOPES, SWALES AND DRAINAGE TRENCHES WITHIN THE AREA OF CONSTRUCTION FOR PHASE VI (AREA 8) AS SHOWN ON THE PLANS. AN AREA SHALL BE CONSIDERED TO HAVE ACHIEVED FINAL STABILIZATION WHEN IT HAS A MINIMUM UNIFORM 70% PERENNIAL VEGETATIVE COVER OR OTHER NON-VEGETATIVE COVER WITH A DENSITY SUFFICIENT TO RESIST ACCELERATED SURFACE EROSION AND SUBSURFACE CHARACTERISTICS SUFFICIENT TO RESIST SLIDING AND OTHER MOVEMENTS.
8. REMOVE PERIMETER CONTROLS FROM THE CONSTRUCTION LAY-DOWN AREA (AREA 8) AS SHOWN ON PLANS THAT INCLUDE: SUPER SILT FENCE AND SILT FENCE AS SHOWN ON PLANS.
9. STABILIZE THE AREAS WHERE BMPS WERE LOCATED FOR THE DEVELOPMENT OF THE CONSTRUCTION LAY-DOWN AREA (AREA 8). DISPOSE OF ANY SEDIMENT AS OUTLINED IN THE MAINTENANCE NOTES.

PHASE VII (CS9007)
EACH STAGE OF THE SEQUENCE MUST BE COMPLETED PRIOR TO INITIATION OF THE NEXT STAGE OF THE SEQUENCE OF EARTH MOVING OPERATIONS WITHIN THIS PHASE.

1. FIELD-MARK THE LIMITS OF DISTURBANCE, ALL WATERS OF THE COMMONWEALTH, SENSITIVE RESOURCES TO BE SAVED, AND PROPOSED INFILTRATION AREAS FOR PHASE VII (AREA 6).
2. INSTALL ROCK CONSTRUCTION ENTRANCE 7A AS SHOWN ON THE PLANS.
3. INSTALL ALL PERIMETER CONTROLS: SUPER SILT FENCE AND SILT FENCE AS SHOWN ON PLANS (AREA 6).
4. CLEAR AREAS OF CONSTRUCTION WITHIN THE LIMITS OF DISTURBANCE FOR PHASE VII (AREA 6).
5. STRIP ORGANIC MATERIAL FROM THE AREAS OF CONSTRUCTION WITHIN THE LIMITS OF PHASE VII (AREA 6) AND HAUL TO TOP SOIL DISPOSAL AREA SHOWN ON THE PLANS.
6. INSTALL TEMPORARY DREDGE MATERIAL POND AND RELATED CUT/FILL PERIMETER CONTROLS
7. INSTALL COFFERDAM FOR THE INTAKE STRUCTURE IN SUSQUEHANNA RIVER AND DEWATER TO TEMPORARY DREDGE POND.
8. EXCAVATE AREA FOR INTAKE STRUCTURE PLACING ALL DREDGE MATERIAL FROM RIVER BOTTOM IN TEMPORARY DREDGE POND.
9. INSTALL FOUNDATIONS FOR INTAKE STRUCTURE AND ROUGH GRADE SITE AREA. PLEASE CUT/FILL PERIMETER CONTROLS AS SHOWN ON THE PLANS AND AS REQUIRED.
10. AS CONSTRUCTION OF INTAKE STRUCTURE PROGRESSES, EXCAVATE TRENCH AND INSTALL PLANT UTILITY SERVICE LINES FROM THE INTAKE STRUCTURE TO WEST SIDE OF CANAL (AREA 6). INSTALL TEMPORARY PIPE CLOSURES AT TERMINATION POINTS.
11. ROUGH GRADE AREAS OF TRENCH EXCAVATION ONCE PLANT UTILITY LINES ARE INSTALLED.
12. INSTALL COFFERDAM FOR BLOW-DOWN LINE DIFFUSER IN SUSQUEHANNA RIVER AND DEWATER TO TEMPORARY DREDGE POND.
13. EXCAVATE TRENCH AND INSTALL BLOW-DOWN LINE DIFFUSER IN THE SUSQUEHANNA RIVER (AREA 6).
14. ONCE BLOW-DOWN LINE IS INSTALLED, ROUGH GRADE AREAS OF TRENCH EXCAVATION AND STABILIZE DISTURBED AREAS AS SHOWN ON THE PLANS AND PLACE PERIMETER CONTROLS ON CUT/FILL SLOPES AS SHOWN ON THE PLANS AND AS REQUIRED.
15. AS ROUGH GRADE FOR THE ACCESS ROAD TO THE INTAKE STRUCTURE (STA 5000+00 TO STA 5003+45) IS ACHIEVED, INSTALL GEOTEXTILE FABRIC FOLLOWED BY INSTALLATION OF AGGREGATE SUB BASE AS SHOWN ON THE PLANS.
16. AS ROUGH GRADE FOR THE INTAKE STRUCTURE YARD AREA IS ACHIEVED, INSTALL AGGREGATE SUB BASE AS SHOWN ON THE PLANS.
17. INSTALL SUB-BASE PAVEMENT FOR THE INTAKE STRUCTURE ACCESS ROAD (STA 5000+00 TO STA 5003+45) AND ASSOCIATED INTAKE STRUCTURE YARD AREA AS SHOWN ON PLANS.
18. INSTALL RIP-RAP SHORE PROTECTION ALONG RIVER BANKS AS SHOWN ON THE PLANS (AREA 6).
19. REMOVE COFFERDAMS AND INSTALL RIP-RAP SHORE PROTECTIONS IN ANY REMAINING AREAS WHERE COFFERDAM IS REMOVED.
20. EXCAVATE DEWATERED DREDGE MATERIAL FROM THE TEMPORARY DREDGE MATERIAL POND AND HAUL TO THE PERMANENT SPOILS AREA AS SHOWN ON THE PLANS.
21. REMOVE THE TEMPORARY DREDGE MATERIAL POND HAULING ANY EXCESS MATERIALS TO THE PERMANENT SPOILS AREA, AS SHOWN ON THE PLANS, AND GRADE THE AREA.
22. PERFORM CANAL RESTORATION ACTIVITIES; THE CANAL RESTORATION CONSTRUCTION SEQUENCE IS AS FOLLOWS:

CONSTRUCTION NOTES:

A. AT LEAST 7 DAYS BEFORE STARTING ANY EARTH DISTURBANCE ACTIVITIES THE OPERATOR SHALL INVITE ALL CONTRACTORS INVOLVED IN THOSE ACTIVITIES INCLUDING BUT NOT LIMITED TO: THE LANDOWNER, ALL APPROPRIATE MUNICIPAL OFFICIALS, THE EROSION AND SEDIMENT CONTROL PLAN PREPARER, AND A REPRESENTATIVE FROM THE LUZERNE CONSERVATION DISTRICT FOR AN ON-SITE PRE-CONSTRUCTION MEETING. ALSO, AT LEAST 3 DAYS BEFORE STARTING ANY EARTH DISTURBANCE ACTIVITIES, ALL CONTRACTORS INVOLVED IN THOSE ACTIVITIES SHALL NOTIFY THE PENNSYLVANIA ONE CALL SYSTEM INCORPORATED AT 1-800-242-1776 FOR BURIED UTILITIES LOCATIONS.

B. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO CONTACT THE LUZERNE CONSERVATION DISTRICT 72 HOURS PRIOR TO CONSTRUCTION AND 72 HOURS PRIOR TO LEAVING THE SITE.

C. EXCESS CLEAN EXCAVATED MATERIAL SHALL BE HAULED FROM THE SITE IMMEDIATELY AND DISPOSED OF WITHIN THE BBNPP PROJECT AREA.

D. IF WATER NEEDS TO BE PUMPED FROM THE EXCAVATED AREA, IT SHALL BE PUMPED THROUGH A PUMPED WATER FILTER BAG DISCHARGING OVER NON-DISTURBED AREAS.

E. 8" OF TOPSOIL SHALL BE SPREAD THROUGHOUT THE DISTURBED AREA TO ACHIEVE FINAL GRADE AND PROVIDE A SUITABLE PLANTING MEDIA.

F. AN AREA SHALL BE CONSIDERED TO HAVE ACHIEVED FINAL STABILIZATION WHEN IT HAS A MINIMUM UNIFORM 70% PERENNIAL VEGETATIVE COVER OR OTHER PERMANENT NON-VEGETATIVE COVER WITH A DENSITY SUFFICIENT TO RESIST ACCELERATED SURFACE EROSION AND SUBSURFACE CHARACTERISTICS SUFFICIENT TO RESIST SLIDING AND OTHER MOVEMENT.

G. ALL EARTH DISTURBANCE ACTIVITIES SHALL PROCEED IN ACCORDANCE WITH THE FOLLOWING SEQUENCE. EACH STAGE SHALL BE COMPLETED BEFORE ANY FOLLOWING STAGE IS INITIATED. CLEARING AND GRUBBING SHALL BE LIMITED ONLY TO THOSE AREAS DESCRIBED IN EACH STAGE.

H. THE INSTALLATION OF THE PIPE, MANHOLE, INLET AND OUTFALL STRUCTURES MAY TAKE PLACE AT ANY TIME DURING THE CONSTRUCTION OF THE RIVERLANDS MITIGATION PROJECT, HOWEVER THE INSTALLATION OF THE PIPE AND DRAINAGE NETWORK MUST BE COMPLETE AND FUNCTIONING PRIOR TO THE FILLING OF THE TRIBUTARY FROM STATION 7+25 TO 11+50 FOR THE CONSTRUCTION OF THE PROPOSED INTAKE STRUCTURE. THE CONSTRUCTION OF THE DRAINAGE NETWORK MUST BEGIN WITH THE OUTFALL STRUCTURE AT THE RIVER, WORKING UPHILL TO THE MANHOLE AND THE INLET STRUCTURE AT PIPE STATION 7+25.

I. THE REPAIR AND MAINTENANCE OF THE RIVERLANDS WETLAND CONTROL STRUCTURE MAY BE CONDUCTED AT ANY TIME AS THE PROCEDURE IS UNAFFECTED BY THE FOLLOWING SEQUENCE. SEE SHEET 5 FOR THE ORIGINAL CONSTRUCTION DETAILS.

J. LIMIT OF DISTURBANCE SHALL BE STAKED OUT IN THE FIELD.

K. INSTALL ORANGE CONSTRUCTION FENCE WHERE LOD IS ADJACENT TO EXISTING WETLANDS TO PREVENT ADDITIONAL DISTURBANCE TO THESE WETLANDS.

L. INSTALL STABILIZED CONSTRUCTION ENTRANCE

M. INSTALL FABRIC FILTER SOCK AS SHOWN ON THE PLAN

N. PERFORM NECESSARY CLEARING AND GRUBBING WITHIN PROPOSED LIMIT OF DISTURBANCE.

O. INSTALL SANDBAGS IN UPSTREAM AND DOWNSTREAM CULVERTS, AS SHOWN ON THE PLAN, AND SET UP PUMP AROUND. INSTALL PUMPS TO DE-WATER CANAL RECONNECTION AREA. CARE MUST BE EXERCISED TO PREVENT THE DISTURBANCE AND PUMPING OF SEDIMENT. FILTER BAGS MUST BE USED UNLESS PUMPING CLEAR WATER (SEE DETAIL E-4 ON SHEET 9 FOR FILTER BAG INSTALLATION).

P. BEGIN GRADING AT CANAL STATION 7+50 AND WORK UPSTREAM TO STATION 4+50.

Q. REMOVE EXISTING WEIR (STATION 5+00) AND BACKFILL EXISTING CHANNEL WITH STRUCTURAL FILL. MATERIAL PLACED TO FILL THE EXISTING DIVERTED CANAL AND FORM THE RESTORED CANAL EMBANKMENT SHALL BE PLACED IN 6" LIFTS AND COMPACTED TO AT LEAST 95% STANDARD PROCTOR DENSITY. BLEND GRADING SURROUNDING EXISTING WEIR AND TIE INTO EXISTING CONTOURS. A MINIMUM OF 8" OF TOPSOIL MUST BE SPREAD ON ALL FILL LOCATIONS, WITH THE EXCEPTION OF THE PROPOSED PATHS, TO OBTAIN FINAL GRADE.

R. FILL TOW PATH (STATIONS 0+00 TO 2+50) AND CONSTRUCT WALKING PATH.

S. FILL ENTRENCHED STREAM CHANNEL TO AN ELEVATION OF 499.00 WORKING FROM THE UPSTREAM FORKED REACH DOWNSTREAM TO THE PROPOSED INLET STRUCTURE AT PIPE STATION 7+25. USE SMALL TRACKED EQUIPMENT TO AVOID COMPACTING THE SOILS (BOTH NATIVE AND FILLED MATERIAL). ADD AMENDED TOPSOIL FROM THE PROPOSED INLET STRUCTURE PAD FILL (PIPE STATION 7+25) UPSTREAM TO THE LOCATION OF THE PROPOSED WEIR REMOVAL (STATION 5+00).

T. EXCAVATE CROSSING TO SOLID BASE MATERIAL AND FILL WITH STRUCTURAL FILL MATERIAL. INSTALL BASE FOR STOP LOG STRUCTURE. INSTALL STOP LOG STRUCTURE AND PIPE.

U. REMOVE EXISTING CANAL DIVERSION EMBANKMENT (CANAL STATION 4+50 TO 3+50) AND RECONSTRUCT CANAL BERM AS SHOWN ON THE GRADING PLAN AND PROFILES. MATERIAL PLACED TO FILL THE EXISTING DIVERTED CANAL AND FORM THE RESTORED CANAL EMBANKMENT SHALL BE PLACED IN 6" LIFTS AND COMPACTED TO AT LEAST 95% STANDARD PROCTOR DENSITY.

V. SET GRADE CONTROL STRUCTURE STOP LOGS TO AN ELEVATION OF 507.20' AND REMOVE COFFER DAMS AND PUMPS.

W. SEED AND STABILIZE ALL DISTURBED AREAS WITH APPROPRIATE SEED MIX PER THE SEEDING RESTORATION TABLE AND THE LANDSCAPE PLAN. EROSION CONTROL MATTING (BIOD-MAT 70 OR EQUIVALENT) MUST BE INSTALLED IN AREAS INDICATED ON THE E&S PLAN SHEET

X. REMOVE INVASIVE SPECIES PRIOR TO PLANTING.

Y. INSTALL PROPOSED RIPARIAN VEGETATION AS INDICATED ON LANDSCAPING PLAN.

Z. REMOVE STABILIZED CONSTRUCTION ENTRANCE.

AA. REMOVE FABRIC FILTER SOCK AFTER ALL UPSLOPE DISTURBED AREAS HAVE ACHIEVED A MINIMUM OF 70% VEGETATIVE COVER. STABILIZE ANY AREAS DISTURBED WHILE REMOVING THESE BMPS WITH THE PROPOSED STABILIZATION SEED MIX AND MULCH.

23. SEED PERIMETER GRADED SLOPES, SWALES AND DRAINAGE TRENCHES WITHIN THE AREA OF CONSTRUCTION FOR PHASE VII (AREA 6) AS SHOWN ON THE PLANS. AN AREA SHALL BE CONSIDERED TO HAVE ACHIEVED FINAL STABILIZATION WHEN IT HAS A MINIMUM UNIFORM 70% PERENNIAL VEGETATIVE COVER OR OTHER NON-VEGETATIVE COVER WITH A DENSITY SUFFICIENT TO RESIST ACCELERATED SURFACE EROSION AND SUBSURFACE CHARACTERISTICS SUFFICIENT TO RESIST SLIDING AND OTHER MOVEMENTS.
24. REMOVE PERIMETER CONTROLS FROM THE INTAKE STRUCTURE AREA (AREA 6) THAT INCLUDE: SUPER SILT FENCE, SILT FENCE AND SILT DIKE AS SHOWN ON PLANS.
25. STABILIZE THE AREAS WHERE TEMPORARY BMPS WERE LOCATED FOR THE DEVELOPMENT OF THE CONSTRUCTION LAY-DOWN AREA (AREA 6). DISPOSE OF ANY SEDIMENT AS OUTLINED IN THE MAINTENANCE NOTES.

PHASE VIII (CS9008)
EACH STAGE OF THE SEQUENCE MUST BE COMPLETED PRIOR TO INITIATION OF THE NEXT STAGE OF THE SEQUENCE OF EARTH MOVING OPERATIONS WITHIN THIS PHASE.

1. FIELD-MARK THE LIMITS OF DISTURBANCE, ALL WATERS OF THE COMMONWEALTH, SENSITIVE RESOURCES TO BE SAVED, AND PROPOSED INFILTRATION AREAS FOR PHASE VIII (AREA 7).
2. INSTALL ALL PERIMETER AND INTERIOR CONTROLS: SUPER SILT FENCE AND SILT FENCE AS SHOWN ON PLANS (AREA 7).
3. CLEAR AREAS OF CONSTRUCTION WITHIN THE LIMITS OF DISTURBANCE FOR PHASE VIII (AREA 7).
4. STRIP ORGANIC MATERIAL FROM THE AREAS OF CONSTRUCTION WITHIN THE LIMITS OF PHASE VIII (AREA 7) AND HAUL TO THE PERMANENT SPOILS AREA SHOWN ON THE PLANS.
5. EXCAVATE TRENCH EAST OF US11 AND INSTALL PLANT UTILITY SERVICE LINES FROM THE TERMINATION POINTS AT CANAL RESTORATION AREA (AREA 6) TO US11. INSTALL TEMPORARY PIPE CLOSURES AT TERMINATION POINTS.
6. INSTALL PLANT UTILITY SERVICES AS SHOWN ON THE PLANS.
7. EXCAVATE TRENCH WEST OF US11 AND INSTALL PLANT UTILITY SERVICE LINES FROM THE BATCH PLANT AREA TO US11 COMPLETING THE PLANT UTILITY SERVICE LINE INSTALLATION.
8. ROUGH GRADE AREAS OF TRENCH EXCAVATION.
9. RESTORE ANY DISTURBED AREAS ALONG THE EAST AND WEST SIDES OF US11 AS SHOWN ON THE PLANS.
10. SEED GRADED AREAS, SWALES AND DRAINAGE TRENCHES WITHIN THE AREA OF CONSTRUCTION FOR PHASE VIII (AREA 7) AS SHOWN ON THE PLANS. AN AREA SHALL BE CONSIDERED TO HAVE ACHIEVED FINAL STABILIZATION WHEN IT HAS A MINIMUM UNIFORM 70% PERENNIAL VEGETATIVE COVER OR OTHER NON-VEGETATIVE COVER WITH A DENSITY SUFFICIENT TO RESIST ACCELERATED SURFACE EROSION AND SUBSURFACE CHARACTERISTICS SUFFICIENT TO RESIST SLIDING AND OTHER MOVEMENTS.
11. REMOVE PERIMETER CONTROLS FROM AREAS OF CONSTRUCTION FOR PHASE VIII (AREA 7) THAT INCLUDE: SUPER SILT FENCE AND SILT FENCE AS SHOWN ON PLANS.
12. STABILIZE THE AREAS WHERE TEMPORARY BMPS WERE LOCATED (AREA 7). DISPOSE OF ANY SEDIMENT AS OUTLINED IN THE MAINTENANCE NOTES.

PHASE IX (CS9009)
EACH STAGE OF THE SEQUENCE MUST BE COMPLETED PRIOR TO INITIATION OF THE NEXT STAGE OF THE SEQUENCE OF EARTH MOVING OPERATIONS WITHIN THIS PHASE.

1. BEGIN CONSTRUCTION OF THE POWER BLOCK STRUCTURES.
2. AS CONSTRUCTION OF THE POWER BLOCK STRUCTURES PROGRESSES, CONSTRUCT RETAINING WALL 4 AS SHOWN ON THE PLANS.
3. AS BACKFILL OPERATIONS WITHIN THE POWER BLOCK MASS EXCAVATION PROGRESS, REMOVE DEWATERING FEATURES AS NECESSARY AND STABILIZE THE AREAS WHERE THESE BMPS WERE LOCATED. DISPOSE OF ANY SEDIMENT AS OUTLINED IN THE MAINTENANCE NOTES.
4. ONCE THE AREA BEHIND RETAINING WALL 4 IS BACKFILLED, INSTALL RAIL BED (STA 591+00 TO 606+55.30) (AREA 3) AND STABILIZE SLOPES AS SHOWN ON THE PLANS WITH SLOPE MATTING/VEGETATION. PERIMETER CONTROLS SHALL BE PLACED ON ALL CUT/FILL SLOPES AS WELL.
5. INSTALL REMAINING SECTION OF THE ACCESS ROAD IN NORTHWEST QUADRANT OF POWER BLOCK AREA (STA 100+00 TO STA 117+00) (AREA 3).
6. AS INSTALLATION OF THE ACCESS ROAD PROGRESSES (STA 100+00 TO STA 117+00), INSTALL GEOTEXTILE FABRIC FOLLOWED BY INSTALLATION OF AGGREGATE SUB BASE.
7. INSTALL PERMANENT STORM WATER DRAINAGE PIPING AND CATCH BASINS WITHIN THE POWER BLOCK AREA.
8. INSTALL PLANT ROADS WITHIN THE POWER BLOCK AREA.
9. AS INSTALLATION OF PLANT ROADS PROGRESSES, INSTALL GEOTEXTILE FABRIC FOLLOWED BY INSTALLATION OF AGGREGATE SUB BASE.
10. FINAL GRADE ALL ROADS WITHIN THE POWER BLOCK AREA AND INSTALL SUB-BASE PAVEMENT AS SHOWN ON THE PLANS.
11. STABILIZE AREAS WITHIN THE POWER BLOCK AREA; INSTALL GEOTEXTILE FABRIC AND AGGREGATE SUB BASE.
12. SEED GRADED AREAS, SWALES AND DRAINAGE TRENCHES WITHIN THE AREA OF CONSTRUCTION FOR PHASE IX (AREA 3) AS SHOWN ON THE PLANS. AN AREA SHALL BE CONSIDERED TO HAVE ACHIEVED FINAL STABILIZATION WHEN IT HAS A MINIMUM UNIFORM 70% PERENNIAL VEGETATIVE COVER OR OTHER NON-VEGETATIVE COVER WITH A DENSITY SUFFICIENT TO RESIST ACCELERATED SURFACE EROSION AND SUBSURFACE CHARACTERISTICS SUFFICIENT TO RESIST SLIDING AND OTHER MOVEMENTS.
13. REMOVE PERIMETER CONTROLS FROM AREAS OF CONSTRUCTION FOR PHASE IX (AREA 3) THAT INCLUDE: SUPER SILT FENCE AND SILT FENCE AS SHOWN ON PLANS.
14. STABILIZE THE AREAS WHERE TEMPORARY BMPS WERE LOCATED (AREA 3). DISPOSE OF ANY SEDIMENT AS OUTLINED IN THE MAINTENANCE NOTES.
15. SEED GRADED AREAS, SWALES AND DRAINAGE TRENCHES ASSOCIATED WITH THE STOCK PILES IN AREAS 1 AND 2 AS SHOWN ON THE PLANS. AN AREA SHALL BE CONSIDERED TO HAVE ACHIEVED FINAL STABILIZATION WHEN IT HAS A MINIMUM UNIFORM 70% PERENNIAL VEGETATIVE COVER OR OTHER NON-VEGETATIVE COVER WITH A DENSITY SUFFICIENT TO RESIST ACCELERATED SURFACE EROSION AND SUBSURFACE CHARACTERISTICS SUFFICIENT TO RESIST SLIDING AND OTHER MOVEMENTS.
16. AFTER STABILIZATION OCCURS FOR THE STOCK PILE IN AREA 2, CONVERT SEDIMENT BASIN 3 TO INFILTRATION BASIN 3.2 AS SHOWN ON THE PLANS. CONVERSION PROCESS SHALL INCLUDE BUT WILL NOT BE LIMITED TO ADJUSTING FINAL GRADE OF BASIN BED TO NO LESS THAN TWO FEET BELOW SEDIMENT BASIN BED. PROPER CARE SHALL BE TAKEN TO REDUCE ANY UNNECESSARY COMPACTION OF THE INFILTRATION BED. STABILIZE INTERIOR AND EXTERIOR SLOPES OF BASIN EMBANKMENTS IMMEDIATELY UPON COMPLETION OF BASIN CONSTRUCTION.
17. REMOVE PERIMETER CONTROLS FROM BOTH STOCK PILES; INCLUDING SUPER SILT FENCE AND SILT FENCE AS SHOWN ON PLANS.
18. STABILIZE THE AREAS WHERE TEMPORARY BMPS WERE LOCATED (AREA 3). DISPOSE OF ANY SEDIMENT AS OUTLINED IN THE MAINTENANCE NOTES.

PHASE X (CS9010)
CONSTRUCTION SEQUENCE CONFERS LANE:

CONSTRUCTION NOTES:

AT LEAST 7 DAYS BEFORE STARTING ANY EARTH DISTURBANCE ACTIVITIES THE OPERATOR SHALL INVITE ALL CONTRACTORS INVOLVED IN THOSE ACTIVITIES INCLUDING BUT NOT LIMITED TO: THE LANDOWNER, ALL APPROPRIATE MUNICIPAL OFFICIALS, THE EROSION AND SEDIMENT CONTROL PLAN PREPARER, AND A REPRESENTATIVE FROM THE LUZERNE CONSERVATION DISTRICT FOR AN ON-SITE PRE-CONSTRUCTION MEETING. ALSO, AT LEAST 3 DAYS BEFORE STARTING ANY EARTH DISTURBANCE ACTIVITIES, ALL CONTRACTORS INVOLVED IN THOSE ACTIVITIES SHALL NOTIFY THE PENNSYLVANIA ONE CALL SYSTEM INCORPORATED AT 1-800-242-1776 FOR BURIED UTILITIES LOCATIONS.

IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO CONTACT THE LUZERNE CONSERVATION DISTRICT 72 HOURS PRIOR TO CONSTRUCTION AND 72 HOURS PRIOR TO LEAVING THE SITE.

CLEAN EXCAVATED MATERIAL SHALL BE HAULED FROM THE SITE AND DISPOSED OF WITHIN THE PROJECT AREA.

IF WATER NEEDS TO BE PUMPED FROM THE EXCAVATED AREA, IT SHALL BE PUMPED THROUGH A PUMPED WATER FILTER BAG DISCHARGING OVER NON-DISTURBED AREAS.

THE OPERATOR SHALL REMOVE FROM THE SITE, RECYCLE, OR DISPOSE OF ALL BUILDING MATERIALS AND WASTES IN ACCORDANCE WITH THE DEPARTMENT'S SOLID WASTE MANAGEMENT REGULATIONS AT 25 PA. CODE 260.1 ET SEQ., 271.1 ET SEQ., AND 287.1 ET SEQ. THE CONTRACTOR SHALL NOT ILLEGALLY BURY, DUMP, OR DISCHARGE ANY BUILDING MATERIAL OR WASTES AT THE SITE.

GRADED AREAS WITHIN THE PROPOSED WETLAND SHALL BE STABILIZED WITH THE PROPOSED CONSERVATION SEED MIX PRIOR TO PLANTINGS.

AN AREA SHALL BE CONSIDERED TO HAVE ACHIEVED FINAL STABILIZATION WHEN IT HAS A MINIMUM UNIFORM 70% PERENNIAL VEGETATIVE COVER OR OTHER PERMANENT NON-VEGETATIVE COVER WITH A DENSITY SUFFICIENT TO RESIST ACCELERATED SURFACE EROSION AND SUBSURFACE CHARACTERISTICS SUFFICIENT TO RESIST SLIDING AND OTHER MOVEMENT.

ALL EARTH DISTURBANCE ACTIVITIES SHALL PROCEED IN ACCORDANCE WITH THE FOLLOWING SEQUENCE. EACH STAGE SHALL BE COMPLETED BEFORE ANY FOLLOWING STAGE IS INITIATED. CLEARING AND GRUBBING SHALL BE LIMITED ONLY TO THOSE AREAS DESCRIBED IN EACH STAGE.

CONSTRUCTION STAGES:

1. STAKE OUT LIMIT OF DISTURBANCE IN THE FIELD.
2. INSTALL ORANGE CONSTRUCTION FENCE WHERE LIMIT OF DISTURBANCE IS ADJACENT TO EXISTING WETLANDS TO PREVENT ADDITIONAL DISTURBANCE TO THESE WETLANDS.
3. INSTALL FILTER SOCK AS SHOWN ON THE PLAN
4. PERFORM NECESSARY CLEARING AND GRUBBING WITHIN PROPOSED LIMIT OF DISTURBANCE.
5. REMOVE EXISTING PAVEMENT AND STONE BASE.
6. EXCAVATE PROPOSED WETLAND AREA TO PROPOSED SUB-GRADE ELEVATIONS. SCARIFY SUBSOIL TO A DEPTH OF AT LEAST EIGHT (8) INCHES.
7. ADD COMPOST AND TOPSOIL MIXTURE WITH A RATIO OF 75% CLEAN, NATIVE SOIL AND 25% COMPOST. SOIL/COMPOST SHALL BE THOROUGHLY MIXED.
8. PLACE SOIL/COMPOST MIXTURE ON WETLAND TO PROPOSED FINAL GRADE ELEVATIONS (1' MIN.).
9. SEED DISTURBED AREA WITH FLOODPLAIN SEED MIX, PER THE LANDSCAPE PLAN. MULCH SEEDED AREA WITH STRAW AT 3 TONS PER ACRE.
10. INSTALL PROPOSED VEGETATION WITHIN GRADED WETLAND PER THE LANDSCAPE PLAN AND DETAILS.
11. REMOVE FILTER SOCK AFTER DISTURBED AREAS HAVE ACHIEVED A MINIMUM OF 70% VEGETATIVE COVER. STABILIZE ANY AREAS DISTURBED WHILE REMOVING THIS BMP WITH THE PROPOSED STABILIZATION SEED MIX AND MULCH.

CONSTRUCTION SEQUENCE WALKER RUN:

CONSTRUCTION NOTES:

AT LEAST 7 DAYS BEFORE STARTING ANY EARTH DISTURBANCE ACTIVITIES THE OPERATOR SHALL INVITE ALL CONTRACTORS INVOLVED IN THOSE ACTIVITIES INCLUDING BUT NOT LIMITED TO: THE LANDOWNER, ALL APPROPRIATE MUNICIPAL OFFICIALS, THE EROSION AND SEDIMENT CONTROL PLAN PREPARER, AND A REPRESENTATIVE FROM THE LUZERNE CONSERVATION DISTRICT FOR AN ON-SITE PRE-CONSTRUCTION MEETING. ALSO, AT LEAST 3 DAYS BEFORE STARTING ANY EARTH DISTURBANCE ACTIVITIES, ALL CONTRACTORS INVOLVED IN THOSE ACTIVITIES SHALL NOTIFY THE PENNSYLVANIA ONE CALL SYSTEM INCORPORATED AT 1-800-242-1776 FOR BURIED UTILITIES LOCATIONS.

IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO CONTACT THE LUZERNE CONSERVATION DISTRICT 72 HOURS PRIOR TO CONSTRUCTION AND 72 HOURS PRIOR TO LEAVING THE SITE.

EXCAVATED MATERIAL SHALL BE TEMPORARILY STOCKPILED AT LOCATION SHOWN ON PLAN. FILTER FABRIC FENCE SHALL BE INSTALLED AROUND THE BASE OF STOCKPILE AS SHOWN ON PLAN. STOCKPILED MATERIAL SHALL BE HAULED FROM THE SITE AND TRANSPORTED TO AN APPROVED OFF-SITE SPOIL AREA LOCATED WITHIN EXISTING PP&L MAINTENANCE FACILITY DUMP SITE.

EXCAVATED TOPSOIL SHALL BE STOCKPILED SEPARATE FROM OTHER EXCAVATED MATERIAL WITHIN THE TEMPORARY STOCKPILE AREA. A 6" THICK LAYER OF TOPSOIL SHALL BE SPREAD THROUGHOUT PROPOSED FLOODPLAIN AREA TO ACHIEVE FINAL GRADE.

GRADED AREAS ALONG AN 8- TO 10-FOOT WIDE (APPROXIMATE) SWATH ALONG THE STREAM CHANNEL SHALL BE STABILIZED WITH 6" THICK (APPROXIMATE) 4'X5' SOD MATS BY THE END OF EACH WORKDAY. SOD SHALL BE HARVESTED FROM AREAS WITHIN THE PROPOSED LIMIT OF DISTURBANCE PRIOR TO EXCAVATION. EROSION CONTROL FABRIC SHALL BE USED TO STABILIZE STREAM BANKS IN PLACE OF SOD MATS IF NECESSARY. THE PROPOSED CONSERVATION SEED MIX SHALL BE APPLIED PRIOR TO INSTALLING EROSION CONTROL FABRIC.

GRADED AREAS WITHIN THE PROPOSED FLOODPLAIN SHALL BE STABILIZED WITH EROSION CONTROL FABRIC. EROSION CONTROL FABRIC SHALL BE INSTALLED IN OVERLAPPING STRIPS PERPENDICULAR TO THE DIRECTION OF FLOOD FLOWS. THE PROPOSED CONSERVATION SEED MIX SHALL BE APPLIED TO GRADED AREAS PRIOR TO INSTALLING EROSION CONTROL FABRIC.

AN AREA SHALL BE CONSIDERED TO HAVE ACHIEVED FINAL STABILIZATION WHEN IT HAS A MINIMUM UNIFORM 70% PERENNIAL VEGETATIVE COVER OR OTHER PERMANENT NON-VEGETATIVE COVER WITH A DENSITY SUFFICIENT TO RESIST ACCELERATED SURFACE EROSION AND SUBSURFACE CHARACTERISTICS SUFFICIENT TO RESIST SLIDING AND OTHER MOVEMENT.

ALL EARTH DISTURBANCE ACTIVITIES SHALL PROCEED IN ACCORDANCE WITH THE FOLLOWING SEQUENCE. EACH STAGE SHALL BE COMPLETED BEFORE ANY FOLLOWING STAGE IS INITIATED. CLEARING AND GRUBBING SHALL BE LIMITED ONLY TO THOSE AREAS DESCRIBED IN EACH STAGE.

CONSTRUCTION STAGES:

1. LIMIT OF DISTURBANCE SHALL BE STAKED OUT IN THE FIELD.
2. INSTALL ROCK CONSTRUCTION ENTRANCE (R.C.E).
3. INSTALL ROCK FILTER AT DESIGNATED LOCATION.
4. PERFORM NECESSARY CLEARING AND GRUBBING WITHIN PROPOSED LIMIT OF DISTURBANCE.
5. GRADE RIGHT STREAM BANK AND EXCAVATE FLOODPLAIN ALONG 8-FOOT WIDE (APPROXIMATE) SWATH PARALLEL TO EXISTING STREAM CHANNEL.
6. STABILIZE 8-FOOT SWATH (APPROXIMATE) WITH SOD MATS.
7. EXCAVATE REMAINING FLOODPLAIN TO PROPOSED SUB-GRADE ELEVATIONS.
8. SPREAD TOPSOIL ON FLOODPLAIN TO PROPOSED FINAL GRADE ELEVATIONS.
9. SEED (CONSERVATION SEED MIX – ERNMX-114) AND STABILIZE GRADED FLOODPLAIN WITH EROSION CONTROL FABRIC.
10. REMOVE ROCK CONSTRUCTION ENTRANCES (R.C.E.).
11. SEED (STABILIZATION SEED MIX) AND MULCH ALL REMAINING DISTURBED AREAS OUTSIDE OF GRADED FLOODPLAIN LIMITS.
12. INSTALL PROPOSED RIPARIAN VEGETATION WITHIN GRADED FLOODPLAIN.
13. REMOVE FILTER FABRIC FENCE AND ROCK FILTER AFTER UPHILL DISTURBED AREAS HAVE ACHIEVED A MINIMUM OF 70% VEGETATIVE COVER. STABILIZE ANY AREAS DISTURBED WHILE REMOVING THESE TEMPORARY BMPS WITH THE PROPOSED STABILIZATION SEED MIX AND MULCH.

NOTE: INSTALL ALL EROSION AND SEDIMENTATION CONTROL DEVICES AS REQUIRED BY THE NARRATIVE, PLAN, AND FIELD CONDITIONS. THESE MEASURES SHALL BE MAINTAINED DURING CONSTRUCTION AND UNTIL THE PERMANENT GROUND COVER IS ESTABLISHED IN THE DISTURBED AREAS. TO MAXIMIZE THE EFFECTIVENESS OF THIS PLAN, THE CONTRACTOR SHALL ARRANGE AN ON-SITE REVIEW WITH PERSONNEL FROM THE LUZERNE CONSERVATION DISTRICT TO DETERMINE HOW TO BEST IMPLEMENT THE PLAN.

LEGEND

EXISTING / PROPOSED

- MAJOR CONTOUR LINE (10') — 700
- MINOR CONTOUR LINE (2')
- SUSQUEHANNA ROSELAND CONTOUR LINE (2')
- SOIL TYPE LABEL — BrB
- SOILS BOUNDARY
- OUTLET STRUCTURE
- STORM INLET
- STORM MANHOLE
- DRAINAGE PIPE
- WATER VALVE — WV
- FIRE HYDRANT — HYD
- UTILITY POLE
- GUY WIRE
- TREES
- PROPERTY LINE — PL
- ROAD R/W LINE
- FENCE
- TREE / BRUSH LINE
- EDGE OF PAVE
- RAILROAD
- WETLANDS BUFFER
- WETLANDS
- BUILDING / STRUCTURE
- LEVEL SPREADER
- BRIDGE
- 100 YR. FLOODPLAIN
- 500 YR. FLOODPLAIN
- CULVERT
- EDGE OF RIVER
- WALL

EROSION & SEDIMENTATION LEGEND

- TEMPORARY PROPOSED CONTOUR LINE (10') — 700
- TEMPORARY PROPOSED CONTOUR LINE (2')
- NPDES BOUNDARY
- LIMIT OF DISTURBANCE/ CONSTRUCTION
- 18" SILT FENCE — SF-18
- 30" SILT FENCE — SF-30
- SUPER SILT FENCE — SSF
- ROCK FILTER
- FAIRCLOTH SKIMMER
- INLET FILTER BAG PROTECTION
- OUTLET PROTECTION
- ROCK CONSTRUCTION ENTRANCE — RCE
- ORANGE CONSTRUCTION FENCE — OCF
- COFFER DAM
- CLEANOUT MARKER
- BAFFLE WALLS

Pennoni

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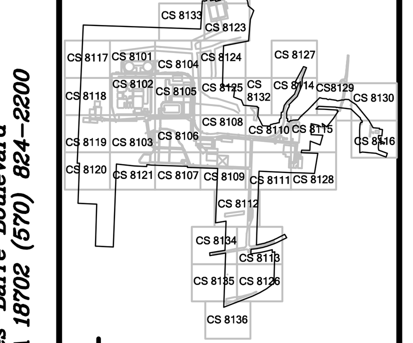
Pennoni Associates Inc.

100 N. Wilkes-Barre Boulevard
Wilkes-Barre, PA 18702 (570) 824-2200

DATE	NO.	REVISIONS	BY
9/15/11	1	EXCESS EARTHWORK REDUCTION AND LCD COMMENTS	DFC
11/12/10	0	INITIAL SUBMISSION	DFC

ALL DIMENSIONS MUST BE VERIFIED BY CONTRACTOR AND OWNER MUST BE NOTIFIED OF ANY DISCREPANCIES BEFORE PROCEEDING WITH THE WORK



BELL BEND NUCLEAR POWER PLANT

SALEM TOWNSHIP, PENNSYLVANIA

EROSION AND SEDIMENTATION CONTROL SEQUENCE

PPL BELL BEND, LLC

38 BOMBOY LANE, SUITE 2
BERWICK, PA 18603

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JOB NO. PPLS0902

SHEET 4 OF 75

SCALE N.T.S.
DRAWN BY LGB
DATE 9/15/2011
APPROVED JFM
DRAWING NO. CS8004

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