

PLAN PREPARER: KYLE M. SPAYD, P.E.
WSP USA
350 EAGLEVIEW BLVD, SUITE 250
EXTON, PA 19341
610-363-4846

GENERAL E&S NOTES

- | | |
|---|---|
| <p>1. THE PROJECT BOUNDARIES FALL WITHIN THE OHIO RIVER BASIN, WHICH INCLUDES BIG RUN, SHENANGO RIVER AND MULTIPLE UNAMED TRIBUTARIES TO BOTH. THE CHAPTER 93 DESIGNATION WITHIN THE PROJECT AREA ARE:</p> <p>BASIN
BIG RUN & UNT'S
SHENANGO RIVER & UNT'S</p> | <p><u>CHAP 93 DESIGNATION</u>
WWF
WWF</p> |
| <p>2. VEHICLES AND EQUIPMENT MAY ONLY ENTER AND EXIT THE SITE FROM STABILIZED ROCK CONSTRUCTION ENTRANCE.</p> | |
| <p>3. DURING EXCAVATION ACTIVITIES, ANY WATER FROM A RAINFALL EVENT THAT NEEDS TO BE PUMPED FROM THE EXCAVATION SHALL BE REMOVED AND DISCHARGED THROUGH A PUMPED WATER FILTER BAG.</p> | |
| <p>4. REVIEW AND APPROVAL OF THE EROSION AND SEDIMENTATION CONTROL PLANS SHALL NOT RELIEVE THE CONSTRUCTION CONTRACTOR FROM HIS OR HER RESPONSIBILITIES FOR COMPLIANCE WITH THE REQUIREMENTS OF PADEP, NOR SHALL IT RELIEVE THE CONSTRUCTION CONTRACTOR FROM ERRORS OR OMISSIONS IN THE APPROVED PLAN.</p> | |
| <p>5. THE CONTRACTOR SHALL MAINTAIN A PPC PLAN AND SPILL KIT AT ALL TIMES DURING CONSTRUCTION.</p> | |
| <p>6. REMOVAL OF THE EROSION AND SEDIMENT CONTROL BMPs WILL OCCUR ONLY AFTER THE DISTURBED AREAS HAVE BEEN STABILIZED WITH STONE OR VEGETATION WITH A DENSITY TO RESIST ACCELERATED SURFACE EROSION.</p> | |
| <p>7. DILIGENT MAINTENANCE OF THE EROSION AND SEDIMENT CONTROL BMPs WILL BE CONDUCTED THROUGHOUT THE DURATION OF THE PROJECT.</p> | |
| <p>8. THE CONTRACTOR WILL BE RESPONSIBLE FOR THE REMOVAL OF ANY EXCESS MATERIAL AND MAKE SURE THE SITE(S) RECEIVING THE EXCESS HAS AN APPROVED AND FULLY IMPLEMENTED EROSION AND SEDIMENT CONTROL PLAN THAT MEETS THE CONDITIONS OF CHAPTER 102 AND/OR OTHER STATE OR FEDERAL REGULATIONS.</p> | |
| <p>9. CLEAN FILL IS DEFINED AS: UNCONTAMINATED, NON-WATER SOLUBLE, NON-DECOMPOSABLE, INERT, SOLID MATERIAL. THE TERM INCLUDES SOIL, ROCK, STONE, DREDGED MATERIAL, USED ASPHALT, AND BRICK, BLOCK OR CONCRETE FROM CONSTRUCTION AND DEMOLITION ACTIVITIES THAT IS SEPARATE FROM OTHER WASTE AND IS RECOGNIZABLE AS SUCH. THE TERM DOES NOT INCLUDE MATERIALS PLACED IN OR ON THE WATERS OF THE COMMONWEALTH UNLESS OTHERWISE AUTHORIZED. (THE TERM "USED ASPHALT" DOES NOT INCLUDE MILLED ASPHALT OR ASPHALT THAT HAS BEEN PROCESSED FOR RE-USE.)</p> | |
| <p>10. ANY PLACEMENT OF CLEAN FILL THAT HAS BEEN AFFECTED BY A SPILL OR RELEASE OF A REGULATED SUBSTANCE MUST USE FORM FP-001 TO CERTIFY THE ORIGIN OF THE FILL MATERIAL AND THE RESULTS OF THE ANALYTICAL TESTING TO QUALIFY THE MATERIAL AS CLEAN FILL. FORM FP-001 MUST BE RETAINED BY THE OWNER OF THE PROPERTY RECEIVING THE FILL.</p> | |
| <p>11. ENVIRONMENTAL DUE DILIGENCE MUST BE PERFORMED TO DETERMINE IF THE FILL MATERIALS ASSOCIATED WITH THE PROJECT QUALIFY AS CLEAN FILL. ENVIRONMENTAL DUE DILIGENCE IS DEFINED AS: INVESTIGATIVE TECHNIQUES, INCLUDING, BUT NOT LIMITED TO, VISUAL PROPERTY INSPECTIONS, ETC. DATA BASE SEARCHES, REVIEW OF PROPERTY OWNERSHIP, REVIEW OF PROPERTY USE HISTORY, SANBORN MAPS, ENVIRONMENTAL QUESTIONNAIRES, TRANSACTION SCREENS, ANALYTICAL TESTING, ENVIRONMENTAL ASSESSMENTS OR AUDITS. ANALYTICAL TESTING IS NOT A REQUIRED PART OF DUE DILIGENCE UNLESS VISUAL INSPECTION AND/OR REVIEW OF THE PAST LAND USE OF THE PROPERTY INDICATES THAT THE FILL MAY HAVE BEEN SUBJECTED TO A SPILL OR RELEASE OF A REGULATED SUBSTANCE. IF THE FILL MAY HAVE BEEN AFFECTED BY A SPILL OR RELEASE OF A REGULATED SUBSTANCE, IT MUST BE TESTED TO DETERMINE IF IT QUALIFIES AS CLEAN FILL. TESTING SHOULD BE PERFORMED IN ACCORDANCE WITH APPENDIX A OF THE DEPARTMENT'S POLICY "MANAGEMENT OF CLEAN FILL."</p> | |
| <p>12. 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 2601 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.</p> | |
| <p>13. ALL OFF-SITE WASTE AND BORROW AREAS MUST HAVE AN E&S PLAN APPROVED BY THE LOCAL CONSERVATION DISTRICT OR THE DEPARTMENT FULLY IMPLEMENTED PRIOR TO BEING ACTIVATED.</p> | |
| <p>14. 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.</p> | |

STANDARD E&S PLAN 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. ALL EARTH DISTURBANCE ACTIVITIES SHALL PROCEED IN ACCORDANCE WITH THE SEQUENCE PROVIDED ON THE PLAN DRAWINGS. DEVIATION FROM THAT SEQUENCE MUST BE APPROVED IN WRITING FROM THE LOCAL CONSERVATION DISTRICT OR BY THE DEPARTMENT PRIOR TO IMPLEMENTATION.
3. AREAS TO BE FILLED ARE TO BE CLEARED, GRUBBED, AND STRIPPED OF TOPSOIL TO REMOVE TREES, VEGETATION, ROOTS AND OTHER OBJECTIONABLE MATERIAL.
4. 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.
5. AT NO TIME SHALL CONSTRUCTION VEHICLES BE ALLOWED TO ENTER AREAS OUTSIDE THE LIMIT OF DISTURBANCE BOUNDARIES SHOWN ON THE PLAN MAPS. THESE AREAS MUST BE CLEARLY MARKED AND FENCED OFF BEFORE CLEARING AND GRUBBING OPERATIONS BEGIN.
6. IMMEDIATELY UPON DISCOVERING UNFORESEEN CIRCUMSTANCES POSING THE POTENTIAL FOR ACCELERATED EROSION AND/OR SEDIMENT POLLUTION, THE OPERATOR SHALL IMPLEMENT APPROPRIATE BEST MANAGEMENT PRACTICES TO MINIMIZE THE POTENTIAL FOR EROSION AND SEDIMENT POLLUTION AND NOTIFY THE LOCAL CONSERVATION DISTRICT AND/OR THE REGIONAL OFFICE OF THE DEPARTMENT.
7. ALL PUMPING OF SEDIMENT LADEN WATER SHALL BE THROUGH A SEDIMENT CONTROL BMP, SUCH AS PUMPED WATER FILTER BAG OR EQUIVALENT SEDIMENT REMOVAL FACILITY, OVER UNDISTURBED VEGETATED AREAS.
8. SEDIMENT TRACKED ONTO ANY PUBLIC ROADWAY OR SIDEWALK SHALL BE RETURNED TO THE CONSTRUCTION SITE BY THE END OF EACH WORK DAY AND DISPOSED IN THE MANNER DESCRIBED IN THIS PLAN. IN NO CASE SHALL THE SEDIMENT BE WASHED, SHOVELED, OR SWEEPED INTO ANY ROADSIDE DITCH, STORM SEWER, OR SURFACE WATER.
9. ALL SEDIMENT REMOVED FROM BMPs SHALL BE DISPOSED OF IN THE MANNER DESCRIBED ON THE PLAN DRAWINGS.
10. 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.
11. ALL EARTHEN FILLS SHALL BE PLACED IN COMPACTED LAYERS NOT TO EXCEED 9 INCHES IN THICKNESS.
12. 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.
13. FROZEN MATERIALS OR SOFT, MUCKY, OR HIGHLY COMPRESSIBLE MATERIALS SHALL NOT BE INCORPORATED INTO FILLS.
14. FILL SHALL NOT BE PLACED ON SATURATED OR FROZEN SURFACES.
15. SEEPS OR SPRINGS ENCOUNTERED DURING CONSTRUCTION SHALL BE HANDLED IN ACCORDANCE WITH THE STANDARD AND SPECIFICATION FOR SUBSURFACE DRAINAGE OR OTHER APPROVED METHOD.
16. ALL GRADED AREAS SHALL BE PERMANENTLY STABILIZED IMMEDIATELY UPON REACHING FINISHED GRADE. CUT SLOPES IN COMPETENT BEDROCK AND ROCK FILLS NEED NOT BE VEGETATED. SEDED 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.
17. PERMANENT STABILIZATION IS DEFINED AS A MINIMUM UNIFORM, PERENNIAL 90% 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.
18. 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.
19. 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.
20. 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.
21. CONCRETE WASH WATER SHALL BE HANDLED IN THE MANNER DESCRIBED ON THE PLAN DRAWINGS. IN NO CASE SHALL IT BE ALLOWED TO ENTER ANY SURFACE WATERS OR GROUNDWATER SYSTEMS.
22. ALL CHANNELS SHALL BE KEPT FREE OF OBSTRUCTIONS INCLUDING BUT NOT LIMITED TO FILL, ROCKS, LEAVES, WOODY DEBRIS, ACCUMULATED SEDIMENT, EXCESS VEGETATION, AND CONSTRUCTION MATERIAL/WASTES.
23. UNDERGROUND UTILITIES CUTTING THROUGH ANY ACTIVE CHANNEL SHALL BE IMMEDIATELY BACKFILLED AND THE CHANNEL RESTORED TO ITS ORIGINAL CROSS-SECTION AND PROTECTIVE LINING. ANY BASE FLOW WITHIN THE CHANNEL SHALL BE CONVEYED PAST THE WORK AREA IN THE MANNER DESCRIBED IN THIS PLAN UNTIL SUCH RESTORATION IS COMPLETE.
24. CHANNELS HAVING RIPRAP, RENO MATTFRESS, OR GABION LININGS MUST BE SUFFICIENTLY OVER-EXCAVATED SO THAT THE DESIGN DIMENSIONS WILL BE PROVIDED AFTER PLACEMENT OF THE PROTECTIVE LINING.
25. INFILTRATION BASIN AND/OR TRAP SHALL BE KEPT FREE OF ALL CONSTRUCTION WASTE, WASH WATER, AND OTHER DEBRIS HAVING POTENTIAL TO CLOG THE BASIN/TRAP OUTLET STRUCTURES AND/OR POLLUTE THE SURFACE WATERS.
26. SEDIMENT BASIN SHALL BE PROTECTED FROM UNAUTHORIZED ACTS BY THIRD PARTIES.
27. ANY DAMAGE THAT OCCURS IN WHOLE OR IN PART AS A RESULT OF BASIN OR TRAP DISCHARGE SHALL BE IMMEDIATELY REPAIRED BY THE PERMITTEE IN A PERMANENT MANNER SATISFACTORY TO THE MUNICIPALITY, LOCAL CONSERVATION DISTRICT, AND THE OWNER OF THE DAMAGED PROPERTY.
28. FILL MATERIAL FOR EMBANKMENTS SHALL BE FREE OF ROOTS, OR OTHER WOODY VEGETATION, ORGANIC MATERIAL, LARGE STONES, AND OTHER OBJECTIONABLE MATERIALS.
29. ALL WASTES AND MATERIALS DEPOSITED IN AND REMOVED FROM POST-CONSTRUCTION STORMWATER MANAGEMENT (PCSM) BMP FACILITIES AND FROM IMPERVIOUS AREAS (EX. SWEEPING OF STREETS & PARKING LOTS) DURING OPERATION AND MAINTENANCE SHALL BE REMOVED FROM THE SITE AND PROPERLY 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 WASTE MATERIALS SHALL BE BURNED, BURIED, DUMPED, OR DISCHARGED AT THE SITE.

NOTE:

MC SOLAR I, LLC SPECIFICATION SHALL SUPERCEDE THE ABOVE STANDARD NOTES AS NECESSARY AND ONLY WHERE THE MC SOLAR I, LLC SPECIFICATION IS MORE STRINGENT THAN THE ABOVE STANDARD NOTES.

GENERAL SEQUENCE OF CONSTRUCTION & BMP INSTALLATION AND REMOVAL

1. 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 EAS 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 THE LOCAL CONSERVATION DISTRICT TO AN ON-SITE PRE-CONSTRUCTION MEETING.
2. AT LEAST 7 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. MARK OUT THE LIMIT OF DISTURBANCE IN THE FIELD PRIOR TO START OF CONSTRUCTION ACTIVITIES.
3. MARK OUT THE LIMIT OF DISTURBANCE AND WATERS OF THE COMMONWEALTH IN THE FIELD PRIOR TO START OF CONSTRUCTION ACTIVITIES.
4. INSTALL ROCK PROTECTION ENTRANCES AT ALL LOCATIONS SHOWN ON THE PLAN DRAWINGS.
5. INSTALL ALL PERIMETER SILT SOCKS AND ORANGE CONSTRUCTION FENCES AS INDICATED ON THE PLAN DRAWINGS.
6. IF REQUIRED PERFORM TREE CLEARING AND GRUBBING OPERATIONS FOR THE ENTIRE SITE. THE USEFWS IDENTIFIED AN AVOIDANCE MEASURE ON THE PMDI THAT THE PROJECT SHOULD CONDUCT ANY TREE CUTTING, DISTURBANCE, INUNDATION (FLOODING) AND PRESCRIBED BURNING FROM OCTOBER 1 TO MARCH 31. MC SOLAR I, LLC SHALL ADHERE TO THIS AVOIDANCE MEASURE.
7. THE UNMARKED HOLE CONSTRUCTION SHALL COMMENCE AT ANY TIME INDEPENDENT OF THE ARRAY AND SUBSTATION EARTHWORK, ALL TRANSMISSION LINE WORK SHALL FOLLOW STEPS 8-17 BELOW, FOR MAJOR SITE WORK ACTIVITIES INCLUDING SEDIMENT BASIN INSTALLATION SKIP TO STEP 30.

NOTE: SINCE TRANSMISSION LINE WORK AND SUBSTATION WORK ARE BEING SEQUENCED SEPARATELY, NO BORROW CAN BE TAKEN FROM SUBSTATION AREA UNTIL THE SEDIMENT BASIN IS INSTALLED AND FUNCTIONING, ALTERNATIVELY FILL MATERIALS NEEDED MUST BE ACQUIRED FROM AN APPROPRIATELY PERMITTED SOURCE IN ACCORDANCE WITH GENERAL NOTES.

9. COMMENCE GRADING IF NEEDED FOR ACCESS ROAD TO STRUCTURES AS INDICATED IN THE E&S PLANS.
10. ONCE ROAD IS CONSTRUCTED, IMMEDIATELY STABILIZE ROAD WITH AGGREGATE SURFACING AND SEED AND MULCH DISTURBED ROAD SHOULDER AREAS. IF
11. SHOULDER SLOPE EXCEEDS 3:1, EROSION CONTROL BLANKETING MUST BE INSTALLED PRIOR TO SEED AND MULCH. AREA OF CONSTRUCTION IS TO BE LIMITED TO THE
12. FOLLOWING COMPLETION OF THE ACCESS ROAD TO THE LOCATION OF THE WORK PAD FOR STRUCTURE LOCATIONS, INSTALL SILT SOCKS, ORANGE FENCING, AND
13. CONSTRUCTION TIMBER MATS AT THE WORK PADS AS INDICATED ON THE E&S PLANS.
14. STRIP THE TOPSOIL, IF NEEDED, AT THE PAD LOCATION AND STOCKPILE AS INDICATED ON THE E&S PLANS.
15. GRADE WORK AREA TO SLOPE 3H:1V OR FLATTER. AREAS DISTURBED BY THE GRADING AND AGGREGATE SURFACING, EROSION CONTROL BLANKET AND
16. TEMPORARY SEEDING APPROVED ALTERNATIVE. EROSION CONTROL BLANKETING IS TO BE PLACED ON SLOPES 3H:1V OR GREATER, PERMANENTLY SEED AND
17. STABILIZE ALL NON AGGREGATE AREAS. ALL AREAS OUTSIDE OF THE WORKING SURFACE SHALL BE PERMANENTLY STABILIZED BY SEEDING, BLANKETING OR
18. RIP-RAP AS INDICATED ON THE PCSM PLAN SHEETS.
19. PROCEED WITH THE INSTALLATION OF WARE AND CONDUCTOR INSTALLATION, TAKING CARE TO DISTURB THE SMALLEST AMOUNT OF AREA POSSIBLE.
20. PROCEED WITH THE STRUCTURE EXCAVATION AREA TO BE STOCKPILED OR HAULED OFF-SITE IN ACCORDANCE WITH CHAPTER 102 GUIDELINES.

NOTE: STRUCTURE WORK PADS CAN BE INSTALLED AHEAD OF STRUCTURE INSTALLATION. AS ONE PAD IS COMPLETED THE NEXT ONE CAN BE CONSTRUCTED, AND PAD CONSTRUCTION DOES NOT HAVE TO COINCIDE WITH THE STRUCTURE INSTALLATION.

14. REPEAT STEPS 8 TO 13 FOR THE OTHER WORK PADS.
15. WHEN THE ACCESS ROAD IS NO LONGER UTILIZED FOR CONSTRUCTION EQUIPMENT ACCESS, CONSTRUCTION TIMBER MATS MAY BE REMOVED SO THE CONTRACTOR IS ABLE TO RESTORE THE ROAD AREA WITH PERMANENT SEEDING, UNLESS NOTED ON THE PCSM PLANS TO REMAIN.
16. RESTORATION IS TO BE COMPLETED IN ACCORDANCE WITH PERMANENT NOTES.
17. PERMANENT EROSION CONTROL SHALL BE MAINTAINED DURING CONSTRUCTION. POLE CONSTRUCTION WILL BE ON-GOING THROUGHOUT THE DURATION OF THE SUBSTATION SITE DEVELOPMENT. IN AREAS NOT OTHERWISE PROTECTED DURING INSTALLATION, PERIMETER BMPs MUST BE INSTALLED PRIOR TO COMMENCEMENT OF EARTH MOVING ACTIVITIES.
18. PROCEED WITH UNDERGROUND ELECTRICAL LINE CONSTRUCTION, TAKING CARE TO DISTURB THE SMALLEST AMOUNT OF AREA POSSIBLE. EXCESS SOILS FROM THE EXCAVATION ARE TO BE STOCKPILED OR HAULED OFF-SITE IN ACCORDANCE WITH CHAPTER 140 GUIDELINES.
19. SENDING AND RECEIVING PITS ARE TO BE IDENTIFIED ON THE PLANS. THE SENDING AND RECEIVING PITS SHOULD BE BACKFILLED AS SOON AS THE WORK IS COMPLETED AND THE SITE SHALL BE STABILIZED.
20. UNDERGROUND ELECTRIC LINE CONSTRUCTION SEQUENCE SHALL GENERALLY BE AS FOLLOWS:
 - 20.1. ENSURE SILT SOCKS AND CONSTRUCTION TIMBER MAT BMPs ARE INSTALLED.
 - 20.2. PERFORM WORK IN DRY OR LOW FLOW CONDITIONS. IF THIS IS NOT POSSIBLE, CONSIDER IMPLEMENTATION OF ADDITIONAL CONSTRUCTION MATTING OR STONE CHECK DAMS.
 - 20.3. EXCAVATE AND STOCKPILE ALONG TRENCH IF SPECIFIED FOR BACKFILLING. ALL EXCAVATED MATERIAL SHALL BE HAULED OFFSITE TO AN APPROVED FACILITY.
 - 20.4. PERFORM CONSTRUCTION OF UNDERGROUND ELECTRIC LINE IN TRENCH. BACKFILL WITH MATERIAL SPECIFIED IN THESE PLANS.
 - 20.5. TEMPORARY RESTORATION SHALL OCCUR IMMEDIATELY FOLLOWING COMPLETION OF THE FINAL BACKFILLING OF THE TRENCH. IF WORK IS NOT COMPLETED IN THE SAME DAY, SAFERLY COVER THE TRENCH WITH A STEEL PLATE OR OTHER SPECIFIED METHOD. FINAL TOPSOIL APPLICATION, FINAL GRADING, AND PERMANENT STABILIZATION SHALL BE COMPLETED WITHIN 30 DAYS OF COMPLETION OF THE WORK.
21. NEW SOLAR PANEL ARRAY CONSTRUCTION THROUGHOUT THE SITE MAY COMMENCE AT ANY TIME INDEPENDENT OF THE SUBSTATION EARTHWORK, ALL RELATING CONSTRUCTION WORK SHALL FOLLOW STEPS 22-29 BELOW.

NOTE: SINCE SOLAR PANEL ARRAY WORK AND SUBSTATION WORK ARE BEING SEQUENCES SEPARATELY, NO BORROW CAN BE TAKEN FROM SUBSTATION AREA UNTIL THE SEDIMENT BASIN IS INSTALLED AND FUNCTIONING, ALTERNATIVELY FILL MATERIALS NEEDED MUST BE ACQUIRED FROM AN APPROPRIATELY PERMITTED SOURCE IN ACCORDANCE WITH GENERAL NOTES 10&11.

23. COMMENCE GRADING IF NEEDED FOR ACCESS ROAD TO STRUCTURES AS INDICATED IN THE E&S PLANS.
24. ONCE ROAD IS CONSTRUCTED, IMMEDIATELY STABILIZE ROAD WITH AGGREGATE SURFACING AND SEED AND MULCH DISTURBED ROAD SHOULDER AREAS. IF SHOULDER SLOPE EXCEEDS 3:1, EROSION CONTROL BLANKETING MUST BE INSTALLED PRIOR TO SEED AND MULCH. AREA OF CONSTRUCTION IS TO BE LIMITED TO THE AMOUNT OF ACCESS ROAD THAT CAN BE GRADED AND STABILIZED WITHIN THE FOUR DAY WORK PERIOD TO MEET IMMEDIATE STABILIZATION REQUIREMENTS.
25. FOLLOWING COMPLETION OF THE ACCESS ROAD TO THE LOCATION OF THE WORK AREA FOR ARRAY CONSTRUCTION, INSTALL ANY ADDITIONAL SILT SOCKS IN THE ACCESS ROAD AS INDICATED ON THE E&S PLANS.
26. STRIP THE TOPSOIL, IF NEEDED, AT THE WORK LOCATION AND STOCKPILE AS INDICATED ON THE E&S PLANS.
27. GRADE THE WORK AREA SITE. IMMEDIATELY STABILIZE THE AREAS DISTURBED BY THE GRADING WITH AGGREGATE SURFACING. EROSION CONTROL BLANKET AND TEMPORARY SEEDING OR APPROVED ALTERNATIVE. EROSION CONTROL BLANKETING IS TO BE PLACED ON SLOPES 3H:1V OR GREATER. PERMANENTLY SEED AND STABILIZE ALL NON AGGREGATE AREAS. ALL AREAS OUTSIDE OF THE WORKING SURFACE SHALL BE PERMANENTLY STABILIZED BY SEEDING, BLANKETING OR RIP-RAP AS INDICATED ON THE E&S PLANS. SLOPE AREAS WITHIN THE WORKING SURFACE UNDERGOING GRADING, EROSION AND SEDIMENT CONTROL MEASURES SHALL BE FREQUENTLY CHECKED TO CONFIRM ALL CONTROLS ARE FUNCTIONING PROPERLY. IF CURRENT MEASURES ARE INSUFFICIENT, ADDITIONAL CONTROLS WILL BE REQUIRED AND APPROVED BY ALL APPROPRIATE PARTIES.
28. PROCEED WITH ARRAY INSTALLATION, TAKING CARE TO DISTURB THE SMALLEST AMOUNT OF AREA POSSIBLE. EXCESS SOILS FROM THE STRUCTURE EXCAVATION ARE TO BE STOCKPILED OR HAULED OFF-SITE IN ACCORDANCE WITH CHAPTER 102 GUIDELINES.
29. IF EROSION OCCURS AT THE DRIP END IN THE ARRAY SECTION, IMMEDIATELY STABILIZE THE AREA BY SEEDING, BLANKETING, OR INSTALLING A RIP-RAP.
30. PERIMETER BMPs SHALL BE MAINTAINED DURING CONSTRUCTION. ARRAY CONSTRUCTION WILL BE ON-GOING THROUGHOUT THE DURATION OF THE SUBSTATION AND BESS SITE DEVELOPMENT. IN AREAS NOT OTHERWISE PROTECTED DURING INSTALLATION, PERIMETER BMPs MUST BE INSTALLED PRIOR TO COMMENCEMENT OF EARTH MOVING ACTIVITIES.
31. STRIP AND STOCKPILE TOPSOIL FROM THE SEDIMENT BASIN. ALL TOPSOIL STOCKPILES MUST BE SEEDED AND MULCHED IMMEDIATELY AND, SILT SOCK MUST BE INSTALLED ON THE DOWNSTREAM SIDE OF THE STOCKPILE.
32. EXCAVATE FOR BASIN AND OUTLET STRUCTURE. PERMANENT AND TEMPORARY RISER. CRITICAL STAGE OF CONSTRUCTION INVOLVES INSTALLATION OF THE SEDIMENT BASIN. A LICENSED PROFESSIONAL MUST CONFIRM THAT THE BASIN AREA MEETING THE DESIGN.
33. TO THE SAME TIME, INSTALL THE OUTLET STRUCTURE, RIP-RAP APRON, BASIN AND OUTLET STRUCTURE, TEMPORARY RISER, BAFFLE WALL, SEDIMENT BASIN DEWATERING DEVICE, AND CLEAN OUT STAKE. BEGIN AT OUTFALL AND CONSTRUCT FROM THE BOTTOM (ROCK APRON) WORKING UP TOWARDS THE OUTLET STRUCTURE AND TEMPORARY RISER. OUTFALL SHALL BE COMPLETED PRIOR TO START OF BERM GRADING.
34. ONCE THE OUTLET CONSTRUCTION IS COMPLETED THE COMPOST FILTER SOCK DOWNSTREAM OF THE OUTLET PIPE SHALL BE PULLED ACROSS THE PIPE TO ALLOW BASIN DISCHARGE TO BE UNHINDERED. THE FILTER SOCK SHALL BE REMOVED WHEN THE BASIN COMPONENT(S) OF THE SEDIMENT BASIN IS NOT FUNCTIONING AS INTENDED, REPAIRS OR REPLACEMENT ARE REQUIRED TO ENSURE PROPER FUNCTION OF THE BMP(S).
35. BEGIN BASIN AND FILL AREA CONSTRUCTION AT TOE OF SLOPE TO CREATE A TEMPORARY BERM. AS CONSTRUCTION (FILLING) PROGRESSES BERM HEIGHT SHALL BE ADJUSTED SIMULTANEOUSLY UNTIL FINAL ELEVATIONS ARE ACHIEVED. INSTALL EROSION CONTROL BLANKETING ON SLOPES AS THE WORK PROGRESSES. NO PORTION OF FILL SHALL BE LEFT UNSTABILIZED AT THE END OF THE WORK DAY.
36. INSTALL RIP RAP FOR THE EMERGENCY SPILLWAY AS SPECIFIED ON THE PLAN DRAWINGS.
37. COMPLETE FINAL GRADING FOR THE SEDIMENT BASIN.
38. SPREAD TOPSOIL OVER BASIN SIDE SLOPES DOWN TO THE SEDIMENT BASIN CLEAN OUT ELEVATION, THEN SEED AND MULCH WITH PERMANENT SEED MIX, ON BASIN SIDE SLOPES ONLY.
39. ENSURE THE BASIN OUTLETS ARE FUNCTIONAL AND STABILIZED PRIOR TO DISTURBING ADDITIONAL SITE AREA.
40. TOPSOIL FROM THE REMAINDER OF THE SITE MAY NOT BE STRIPPED UNTIL THE BASIN IS INSTALLED AND FUNCTIONING PROPERLY.
41. ONCE BASIN, CULVERTS AND PERIMETER BMP CONTROLS HAVE BEEN INSTALLED AND CONFIRMED FUNCTIONING PROPERLY, THE EARTHWORK FOR THE SUBSTATION MAY COMMENCE.
42. COMPLETE SUBSTATION ROUGH GRADING.
43. FINAL GRADED AREAS SHALL BE IMMEDIATELY STABILIZED WITH EROSION CONTROL BLANKETING OR RIPRAP OR GRAVEL SURFACE AS SHOWN THEN SEEDED.
44. BEGIN FILTER STRIP CONSTRUCTION WITH THE LEVEL SPREADER DEVICE AT THE UPGRADIENT EDGE OF THE STRIP AND ONLY WHEN THE UPGRADIENT SITE HAS BEEN SUFFICIENTLY STABILIZED AND TEMPORARY EROSION AND SEDIMENT CONTROL MEASURES ARE IN PLACE. CARE SHOULD BE TAKEN TO MINIMIZE DISTURBANCE TO EXISTING VEGETATION.
45. ONCE THE SUBSTATION PAD CONSTRUCTION IS COMPLETE, ENSURE THE UPSTREAM DRAINAGE AREA TO THE SEDIMENT BASIN HAS BEEN STABILIZED (A MINIMUM UNIFORM 90% PERENNIAL VEGETATIVE COVER OR OTHER PERMANENT NON-VEGETATIVE COVER WITH A DENSITY SUFFICIENT TO RESIST ACCELERATED EROSION AND SUBSURFACE CHARACTERISTICS SUFFICIENT TO RESIST SLIDING AND OTHER MOVEMENTS).
46. REMOVE ALL SEDIMENT DEPOSITED WITHIN SEDIMENT BASIN.
47. CONVERT THE SEDIMENT BASIN INTO INFILTRATION BASIN BY REMOVING THE TEMPORARY RISER STRUCTURE. CLEAN OUT STAKE, BAFFLE WALLS AND SEDIMENT BASIN DEWATERING DEVICE. ENSURE THE GATE VALVE IS OPEN DURING CONSTRUCTION FOR PROPER DRAINAGE.
48. ONCE THE SEDIMENT BASIN TO AN INFILTRATION BASIN IS A CRITICAL STAGE OF CONSTRUCTION WHICH REQUIRES A LICENSED PROFESSIONAL TO CONFIRM THE PROPER INSTALLATION AND FUNCTION OF THE BMP.
49. ONCE TEMPORARY STUB PIPE IS REMOVED, THE PERMANENT OUTLET STRUCTURE SHALL BE PERMANENTLY REPAIRED, WITH BRICK AND MORTAR ARE PARGED TO SEAL TEMPORARY STUB HOLE, AND ALL TEMPORARY COVERS AND RISER EXTENSION REMOVED.
50. ONCE THE INFILTRATION BASIN, EXCAVATE DOWN TO THE PROPOSED BASIN TRENCH SYSTEM, USING LOW IMPACT MACHINERY WITH EXTREME CARE TO NOT DISTURB EXISTING VEGETATION. SURGRADE MATERIAL. ENSURE THE GATE VALVE IS OPEN DURING CONSTRUCTION FOR PROPER DRAINAGE.
51. PLACE TOPSOIL ON INFILTRATION BASIN BOTTOM AND NEWLY EXPOSED SIDEWALLS, PERMANENTLY SEED, AND MULCH ALL DISTURBED AREAS. THE SEDIMENT BASIN SHALL NOT BE CONVERTED TO AN INFILTRATION BASIN DURING NON-GERMINATING PERIODS. RE-GRADE, SEED, AND MULCH ALL DISTURBED AREAS. TEMPORARY EROSION CONTROL BLANKET MAY BE INSTALLED WITH PERMANENT SEEDING OVER THE ENTIRE INTERIOR OF THE BASIN.
52. ANY AREA WHERE ACTIVE GRADING HAS CEASED WHICH WILL ALLOW SOIL TO BE EXPOSED MUST BE TEMPORARILY SEEDED AND MULCHED IMMEDIATELY.
53. REMOVE ROCK CONSTRUCTION ENTRANCE, TIMBER MATS, ORANGE CONSTRUCTION FENCE, AND SILT SOCKS. SILT SOCKS MAY BE CUT OPEN AND COMPOST MEDIA MAY BE REUSED.
54. REVEGETATION OR RESTORATION, AS INDICATED ON THE PLANS, IS TO BE COMPLETED IN ACCORDANCE WITH PLAN NOTES. (SEE SEQUENCE ON PCSM NOTES SHEET).
55. AN AREA SHALL BE CONSIDERED TO HAVE ACHIEVED PERMANENT STABILIZATION WHEN IT HAS A MINIMUM UNIFORM 90% 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.
56. WITHIN 30 DAYS AFTER THE COMPLETION OF EARTH DISTURBANCE ACTIVITIES, INCLUDING THE PERMANENT STABILIZATION OF THE SITE AND PROPER INSTALLATION OF E&S AND PCSM APPROVED PCSM PLAN, OR UPON SUBMISSION OF THE NOTE IF SOONER, THE PERMITTEE SHALL FILE WITH THE DEPARTMENT OF AUTHORIZED LOCAL CONSERVATION DISTRICT A STATEMENT SIGNED BY A LICENSED PROFESSIONAL AND BY THE PERMITTEE FOR A FINAL INSPECTION. COMPLETION CERTIFICATES ARE NEEDED TO ENSURE THAT ALL WORK IS PERFORMED IN ACCORDANCE WITH THE TERMS AND CONDITIONS OF THE PERMIT AND THE APPROVED E&S AND PCSM PLANS.

LAND CLEARING NOTES:

ALL STUMPS SHALL BE CUT AS LOW AS POSSIBLE TO THE GROUND AND ARE NOT TO BE REMOVED UNTIL THE PAD AND ROAD CONSTRUCTION BEGINS.

ALL NONCOMPATIBLE VEGETATION SHALL BE CUT AND SO THAT IT FALLS TOWARD THE EDGE OF THE RIGHT-OF-WAY, AWAY FROM THE DESIGNATED ACCESS PATHS.

ALL VEGETATION THAT IS CLEARED MAY REMAIN WHERE IT DROPS ("CUT AND DROP") UNLESS AGREED UPON BY THE LANDOWNER, OTHERWISE IT IS REQUIRED TO BE REMOVED. WOOD CHIPS AND DEBRIS SHALL NOT BE DISPOSED OF WITHIN WETLANDS AND STREAMS.

HEAVY EQUIPMENT SHALL NOT BE USED WITHIN WETLANDS AND STREAMS, UNLESS SUPPORTED WITH CONSTRUCTION MATTING.

WIRE ZONE IS DEFINED AS THE AREA OF THE RIGHT OF WAY CORRIDOR THAT EXTENDS FROM THE CENTERLINE TO A DISTANCE FIFTEEN (15) FEET FROM THE OUTER MOST CONDUCTORS. NATIVE GRASSES, FERNS, AND HERBACEOUS PLANTS SHALL BE PRESERVED TO THE GREATEST EXTENT POSSIBLE IN THE WIRE ZONE.

BORDER ZONE IS DEFINED AS THE AREA OF THE RIGHT OF WAY CORRIDOR THAT EXTENDS FROM THE LIMITS OF THE WIRE ZONE TO THE CLEARED LIMITS OF THE ESTABLISHED RIGHT OF WAY.

REFER TO SEEDING SPECIFICATIONS THIS SHEET FOR STABILIZATION PROCEDURE IN CLEARED AREAS
NOT TO BE FURTHER GRADED.

MANAGEMENT OF FILL NOTES

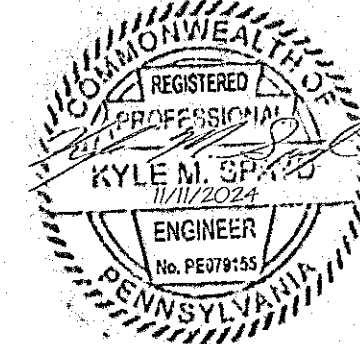
1. ANY CONTRACTOR SUPPLYING FILL OR REMOVING SOLIDS SHALL COMPLY WITH PENNSYLVANIA DEP'S "MANAGEMENT OF FILL", DOCUMENT NUMBER 258-2182-773.
2. CLEAN FILL IS DEFINED AS UNCONTAMINATED, NONWATER SOLUBLE, NONDECOMPOSABLE INERT SOLID MATERIAL. CLEAN FILL INCLUDES SOIL, ROCK, STONE, DREGGED MATERIAL, USED ASPHALT AND BRICK, BLOCK OR CONCRETE FROM CONSTRUCTION AND DEMOLITION ACTIVITIES THAT IS SEPARATE FROM OTHER WASTE AND RECOGNIZABLE AS SUCH.
3. ENVIRONMENTAL DUE DILIGENCE IS DEFINED AS INVESTIGATIVE TECHNIQUES, INCLUDING, BUT NOT LIMITED TO, VISUAL PROPERTY INSPECTIONS, ELECTRONIC DATA BASE SEARCHES, REVIEW OF OWNERSHIP AND USE OF HISTORY, SANBORN MAPS, ENVIRONMENTAL QUESTIONNAIRES, TRANSACTION SCREENS, ANALYTICAL TESTING, ENVIRONMENTAL ENVIRONMENTAL ASSESSMENTS OR AUDITS.
4. 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.
5. THE CONTRACTOR SHALL NOT ILLEGALLY BURY, DUMP, OR DISCHARGE ANY BUILDING MATERIALS OR WASTES AT THE SITE.

RECYCLING AND DISPOSAL OF MATERIALS

1. INDIVIDUALS RESPONSIBLE FOR EARTH DISTURBANCE ACTIVITIES MUST ENSURE THAT PROPER MECHANISMS ARE IN PLACE TO CONTROL WASTE MATERIALS. CONSTRUCTION WASTES INCLUDED THINGS SUCH AS, BUT ARE NOT LIMITED TO, EXCESS SOIL MATERIALS, DAMAGED NETTING OR MATTING, SANITARY WASTES, GENERAL TRASH, ETC. THAT COULD ADVERSELY AFFECT OR IMPACT WATER QUALITY. MEASURES SHOULD BE PLANNED AND IMPLEMENTED FOR HOUSEKEEPING OF THE SITE, MATERIALS MANAGEMENT, AND LITTER CONTROL. WHEREVER POSSIBLE, RECYCLING OF EXCESS MATERIALS IS PREFERRED RATHER THAN DISPOSAL.
2. 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, 27 C.F.R. 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.
3. SEDIMENT REMOVED FROM EROSION CONTROL MEASURES OR FACILITIES AND OTHER SOILS DEEMED UNSUITABLE FOR USE AS FILL SHALL BE STABILIZED AND DISPOSED OF OFFSITE IN AN APPROVED FACILITY. OFFSITE DISPOSAL MUST COMPLY WITH ALL LOCAL, COUNTY, STATE, AND FEDERAL RULES, REGULATIONS, AND LAWS.

MAINTENANCE PROGRAM

1. UNTIL THE SITE IS STABILIZED, ALL EROSION AND SEDIMENT CONTROL BMPs MUST BE MAINTAINED PROPERLY. MAINTENANCE SHALL INCLUDE INSPECTIONS OF ALL EROSION AND SEDIMENT CONTROL BMPs AFTER EACH RUNOFF EVENT AND ON A WEEKLY BASIS. ALL PREVENTATIVE AND REMEDIAL MAINTENANCE WORK, INCLUDING CLEANOUT, REPAIR, REPLACEMENT, RE-GRADING, RESEEDING, RE-MULCHING AND RE-NETTING MUST BE PERFORMED IMMEDIATELY. IF E&S BMPs FAIL TO PERFORM AS EXPECTED, REPLACEMENT BMPs OR MODIFICATIONS OF THOSE INSTALLED WILL BE REQUIRED.
2. ANY SEDIMENT REMOVED FROM BMPs DURING CONSTRUCTION WILL BE RETURNED TO UPLAND AREAS OF THE SITE AND INCORPORATED INTO THE SITE GRADING.
3. A LOG SHOWING THE DATES THAT E&S BMPs WERE INSPECTED AS WELL AS ANY DEFICIENCIES FOUND AND THE DATE THAT THEY WERE CORRECTED SHALL BE MAINTAINED ON THE SITE AND BE MADE AVAILABLE TO THE MERCER COUNTY CONSERVATION DISTRICT OR OTHER REGULATORY AGENCY OFFICIALS AT THE TIME OF INSPECTION.



5	11/4/2024	Updated per Mercer Co Regional Planning Commission email from Nov 1, 2024	A.N.	J.C.S.	K.M.S.
4	9/19/2024	Updated per Mercer Co Regional Planning Commission meeting from July 31, 2024	A.N.	J.C.S.	K.M.S.
3	1/17/2024	Updated per Mercer CCD Review Letter Dated Dec 19, 2023	A.N.	J.C.S.	K.M.S.
2	11/6/2023	Updated per Mercer CCD Verbal Comments on Nov 2, 2023	A.N.	J.C.S.	K.M.S.
1	10/11/2023	Updated per Mercer CCD Review Letter Dated Sept 12, 2023	A.N.	J.C.S.	K.M.S.
0	6/30/2023	Preliminary Land Development Plan - Issued for Permitting	A.N.	J.C.S.	K.M.S.
REV	DATE	DESCRIPTION	PREPARED	CHECKED	APPROVED

[illegible]

1

2

3

4

5

6

7

8

9

10

11

12

13

14

15

16

17

LANDSCAPE RESTORATION STABILIZATION

AREAS BELOW SOLAR ARRAY INSTALLATIONS:

ALL AREAS WITHIN THE SOLAR ARRAY WILL BE SEEDED WITH THE BELOW SOLAR ARRAY AREA SEED MIX, OR APPLICANT AND/OR REPRESENTATIVE APPROVED EQUAL.

SEEDING RATE: 38.5 LBS PER ACRE
SEEDING SEASON DATES: MIX SHOULD ONLY BE MOWED DURING THE DORMANT SEASON UNLESS REQUIRED BY THE MUNICIPALITY TO BE MAINTAINED AT A SPECIFIC HEIGHT.

MIX COMPOSITION

- 43.99% FESCUE SPP (FINE FESCUE BLEND FOR SOLAR PROJECTS: CHEWINGS, CREEPING RED, HARD & SHEEPS)
- 39.13% POA PRATENSIS (KENTUCKY BLUEGRASS)
- 16.87% TRIFOLIUM REPENS (WHITE DUTCH CLOVER)

SOLAR ARRAY BUFFER AREA SEED MIX (AREAS WITH NO VEGETATIVE HEIGHT RESTRICTION)

ALL AREAS OUTSIDE THE SOLAR ARRAY, UNLESS NOTED ELSEWHERE, WILL BE SEEDED WITH THE BELOW SOLAR ARRAY BUFFER AREA SEED MIX, OR APPLICANT AND/OR REPRESENTATIVE APPROVED EQUAL.

SEEDING RATE: 47.817 LBS PER ACRE
SEEDING SEASON DATES: MIX SHOULD ONLY BE MOWED DURING THE DORMANT SEASON UNLESS REQUIRED BY THE MUNICIPALITY TO BE MAINTAINED AT A SPECIFIC HEIGHT.

- 2.08% ANDROPOGON GERARDII (BIG BLUESTEM)
- 2.74% ELYMUS CANADENSIS (CANADA WILDRYE)
- 4.62% SCHIZACHYRIUM SCOPARIUM (LITTLE BLUESTEM)
- 15.36% JUNCUS TENUIIS (PATH RUSH)
- 1.56% CAREX BREVIOR (PLAINS OVAL SEDGE)
- 2.22% KOBLERIA MACRANTHA (PRAIRIE JUNEGRASS)
- 3.82% BOUTELOQUIA CURTIPENDULA (SUECOATS GRAMA)
- 1.64% ELYMUS SMITHII (WESTERN WHEATGRASS)
- 1.64% ELYMUS SMITHII (WESTERN WHEATGRASS)
- 0.24% HELIANTHUS MOLLIS (ASHY SUNFLOWER)
- 2.27% RUDBECKIA HIRTA (BLACKEYED SUSAN)
- 2.24% GAILLARDIA PULCHELLA (BLANKET FLOWER - G. PULCHELLA)
- 2.17% VERBENA HASTATA (BLUE VERVAIN)
- 0.07% ASCLEPIAS TUBEROSA (BUTTERFLY MILKWEED)
- 1.30% ASTRAGALUS CANADENSIS (CANADA MILK VETCH)
- 0.42% DESMODIUM CANADENSE (CANADA TICK-TREFOIL)
- 2.31% OENOTHERA BIENNIS (COMMON EVENING PRIMROSE)
- 0.20% ASCLEPIAS SYRIACA (COMMON MILKWEED)
- 2.30% VERONICA STRUM VIRGINICUM (CULVER'S ROOT)
- 0.12% SILPHIUM PERFOOLIATUM (COP PLANT)
- 2.12% MONARDA PUNCTATA (DOTTED MINT)
- 0.63% BRICKELLIA EUPATORIODES (FALSE BONESET)
- 1.00% HELIOPSIS HELIANTHOIDES (FALSE OR OXEYE SUNFLOWER)
- 0.58% PENSTEMON DIGITALIS (FOXGLOVE BEARDSTONGUE)
- 0.84% ZIZIA AUREA (GOLDEN ALEXANDER)
- 0.48% SOLIDAGO NEMORALIS (GRAY GOLDENROD)
- 1.23% RATIBIDA PINNATA (GRAYHEAD CONEFLOWER)
- 2.86% PENSTEMON HIRSUTUS (HAIRY BEARDSTONGUE)
- 0.31% PRUNELLA VULGARIS (HEAL ALL)
- 2.18% SYMPHYOTRICHUM ERICOIDES (HEATH ASTER)
- 1.41% VERBENA STRICTA (HOARY VERVAIN)
- 0.92% VERNONIA FASCICULATA (IRONWEED)
- 2.12% COREOPSIS LANCEOLATA (LANCELEAF COREOPSIS)
- 2.18% SOLIDAGO GIGANTEA (LATE OR GIANT GOLDENROD, NATIVE SOURCE)
- 1.82% SOLIDAGO MISSOURIENSIS (MISSOURI GOLDENROD, NATIVE SOURCE)
- 1.27% SYMPHYOTRICHUM NOVAE-ANGLIAE (NEW ENGLAND ASTER)
- 9.31% AVENA SATIVA (OATS)
- 3.09% COREOPSIS TINCTORIA (PLAINS COREOPSIS)
- 0.98% ASTER PTARMICOIDES (PRAIRIE ASTER)
- 2.11% DRYMOCALIS ARGUTA (PRAIRIE CINQUEFOIL)
- 0.83% ECHINACEA PURPUREA (PURPLE CONEFLOWER)
- 0.33% LIATRIS ASPERA (ROUGH GAYFEATHER)
- 0.30% HELIANTHUS GROSSEERRATUS (SAWTOOTH SUNFLOWER)
- 1.87% CHAMACRISTA FASCICULATA (SHOWY PARTRIDGEPEA)
- 2.06% SOLIDAGO SPECIOSA (SHOWY-WAND GOLDENROD)
- 0.92% SYMPHYOTRICHUM OOLENTANGIENSE (SKYBLUE ASTER)
- 1.22% ASTER LAEVIS (SMOOTH BLUE ASTER)
- 1.13% SOLIDAGO RIGIDA (STIFF GOLDENROD)
- 0.15% ASCLEPIAS INCARNATA (SWAMP MILKWEED)
- 0.77% EUPATORIUM ALTISSIMUM (TALL BONESET)
- 2.74% ACHILLEA MILLEFOLIUM (WESTERN YARROW)
- 2.44% MONARDA FISTULOSA (WILD BERGAMOT)
- 0.11% SENNA HEBECARPA (WILD SENNA)
- 0.00% RICE HULLS - FILLER FOR LOW PLANTING RATE MIXTURES

1. DECOMPACT SOILS THAT HAVE BEEN COMPACTED BY CONSTRUCTION ACTIVITIES OR DEHYDRATION. ADD AMENDMENTS BASED ON SITE SPECIFIC SOIL TESTS.

2. RAKE THE SOIL TO FORM A CRUMBLY SEEDBED. DO NOT TILL DEEPLY AS THIS WILL ENCOURAGE NEW WEEDS TO GERMINATE ALONG WITH THE NATIVE AND NATURALIZED GRASSES.

3. APPLY SEED WITH EITHER A NON DRILL SEEDER OR BROADCAST SPREADER. FOR SMALL SITES, SEEDS MAY BE BROADCAST BY HAND.

4. LIGHTLY RAKE TO ENSURE PROPER SOIL-SEED CONTACT. ROLL OR TRACK OVER THE SEEDBED AND APPLY A LIGHT STRAW MULCH TO PRESERVE MOISTURE AND AID SOIL STABILIZATION. FOR OPTIMUM GERMINATION, KEEP THE AREA EVENLY MOIST.

- MOW AS NEEDED, SPOT SPRAY AS NEEDED FOR LARGE PATCHES OF INVASIVE SPECIES.

PPC PLAN REQUIREMENT

1. CONTRACTOR SHALL DEVELOP AND IMPLEMENT A PREPAREDNESS, PREVENTION AND CONTINGENCY (PPC) PLAN FOR THE USE AND/OR STORAGE OF CHEMICALS, SOLVENTS OR OTHER WASTE OR MATERIALS THAT WILL HAVE THE POTENTIAL TO CAUSE ACCIDENTAL POLLUTION DURING EARTH DISTURBANCE ACTIVITIES.

STAGES OF CONSTRUCTION

1. CRITICAL STAGE OF CONSTRUCTION INVOLVES INSTALLATION OF THE SEDIMENT BASIN. A LICENSED PROFESSIONAL SHALL INSPECT AND CERTIFY BASIN FUNCTIONALITY PRIOR TO COMMENCEMENT OF MAJOR EARTH MOVING OPERATION ASSOCIATED WITH THE SUBSTATION PAD AREA.

TOPSOIL APPLICATION

1. GRADED AREAS SHOULD BE SCARIFIED OR OTHERWISE LOOSENED TO A DEPTH OF 3 TO 5 INCHES TO PERMIT BONDING OF THE TOPSOIL TO THE SURFACE AREAS AND TO PROVIDE A ROUGHENED SURFACE TO PREVENT TOPSOIL FROM SLIDING DOWN SLOPE.

2. TOPSOIL SHOULD BE UNIFORMLY DISTRIBUTED ACROSS THE DISTURBED AREA TO A DEPTH OF 4 TO 8 INCHES (2 INCHES ON RILL OUTSLOPES). SPREADING SHOULD BE DONE IN SUCH A MANNER THAT SODDING OR SEEDING CAN PROCEED WITH A MINIMUM OF ADDITIONAL PREPARATION OR TILLAGE. IRREGULARITIES IN THE SURFACE RESULTING FROM TOPSOIL PLACEMENT SHOULD BE CORRECTED IN ORDER TO PREVENT FORMATION OF DEPRESSIONS UNLESS SUCH DEPRESSIONS ARE PART OF THE POST CONSTRUCTION STORMWATER MANAGEMENT PLAN.

CUBIC YARDS OF TOPSOIL REQUIRED FOR APPLICATION TO VARIOUS DEPTHS		SOIL AMENDMENT APPLICATION RATE EQUIVALENTS			
DEPTH (IN)	PER 1,000 SQUARE FEET	PER ACRE	PER 1,000 SQ. FT. SO	PER 1,000 LB	NOTES
1	3.1	134	2,480	25 LB	OR AS PER SOIL TEST; MAY NOT BE REQUIRED IN AGRICULTURAL FIELDS
2	6.2	268			
3	9.3	403			
4	12.4	537			
5	15.5	672			
6	18.6	806			
7	21.7	940			
8	24.8	1,074			

PERMANENT SEEDING APPLICATION RATE		TEMPORARY SEEDING APPLICATION RATE	
SOIL AMENDMENT	PER ACRE	PER 1,000 SQ. FT. SO	PER 1,000 LB
AGRICULTURAL LIME	6 TONS	240 LB	25 LB
10-10-20 COMMERCIAL FERTILIZER	3	9.3 LB	210 LB
AGRICULTURAL LIME	1 TON	40 LB	410 LB
10-10-20 COMMERCIAL FERTILIZER	500 LB	12.5 LB	100 LB

TYPICALLY NOT REQUIRED FOR TOPSOIL STOCKPILES

TYPICALLY NOT REQUIRED FOR TOPSOIL STOCKPILES

NOTE: REFER TO BMP DETAIL AND NOTES FOR ADDITIONAL MAINTENANCE REQUIREMENTS AND REMEDIES.

STABILIZATION SPECIFICATIONS:

STEEP SLOPES:

ON SLOPES STEEPER THAN 3:1, USE STEEP SLOPE MIXTURE AS RECOMMENDED BY THE PSU EROSION & CONSERVATION PLANTINGS ON NONCROPLAND OR SEED MIXTURE ERNMX-181, OR APPLICANT AND/OR REPRESENTATIVE APPROVED EQUAL.

WETLANDS: SEEDING SHALL BE FACV WETLAND MEADOW MIX BY ERNST CONSERVATION SEEDS (ERNMX-122) OR APPLICANT AND/OR REPRESENTATIVE APPROVED EQUAL AND APPLIED AT A RATE OF 15 LBS PER ACRE.

NOTES:

1. TEMPORARY STABILIZATION: UPON TEMPORARY CESSATION OF AN EARTH DISTURBANCE ACTIVITY OR ANY STAGE OR PHASE OF AN ACTIVITY WHERE A CESSATION OF EARTH DISTURBANCE ACTIVITIES WILL EXCEED 4 DAYS, THE SITE SHALL BE IMMEDIATELY SEEDED, MULCHED, OR OTHERWISE PROTECTED FROM ACCELERATED EROSION AND SEDIMENTATION PENDING FUTURE EARTH DISTURBANCE ACTIVITIES.

2. PERMANENT STABILIZATION IS DEFINED AS A MINIMUM UNIFORM, PERENNIAL 90% VEGETATIVE COVER OR OTHER PERMANENT NON-VEGETATIVE COVER WITH A DENSITY SUFFICIENT TO RESIST ACCELERATED SURFACE EROSION. CUT AND FILL SLOPES SHALL BE CAPABLE OF RESISTING FAILURE DUE TO SLUMPING, SLIDING, OR OTHER MOVEMENTS.

3. PERMANENT STABILIZATION: 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.

4. TOPSOIL REQUIRED FOR THE ESTABLISHMENT OF VEGETATION SHALL BE STOCKPILED AT THE LOCATION(S) SHOWN ON THE PLAN MAP(S) IN THE AMOUNT NECESSARY TO COMPLETE THE FINISH GRADING OF ALL EXPOSED AREAS THAT ARE TO BE STABILIZED BY VEGETATION. EACH STOCKPILE SHALL BE PROTECTED IN THE MANNER SHOWN ON THE PLAN DRAWINGS. STOCKPILE HEIGHTS SHALL NOT EXCEED 35 FEET. STOCKPILE SLOPES SHALL BE 2H:1V OR FLATTER.

5. 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.

6. TOPSOIL SHOULD NOT BE PLACED WHILE THE TOPSOIL OR SUBSOIL IS IN A FROZEN OR MUDDY CONDITION, WHEN THE SUBSOIL IS EXCESSIVELY WET, OR IN A CONDITION THAT MAY OTHERWISE BE DETRIMENTAL TO PROPER GRADING AND SEEDBED PREPARATION.

7. 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.

8. EROSION CONTROL BLANKETING SHALL BE INSTALLED ON ALL SLOPES 3H:1V OR STEEPER WITHIN 50 FEET OF A SURFACE WATER AND ON ALL OTHER DISTURBED AREAS SPECIFIED ON THE PLAN MAPS AND/OR DETAIL SHEETS.

EROSION CONTROL BLANKET FOR STEEP SLOPES:

1. STEEP SLOPES AT 3H:1V OR STEEPER THAT ARE DISTURBED FOR CONSTRUCTION, FOLLOWING TOPSOIL PLACEMENT, SHALL BE PROTECTED AGAINST EROSION WITH EROSION CONTROL BLANKET SUITABLE FOR THE ESTABLISHMENT OF VEGETATION. THE EROSION CONTROL BLANKET SHOULD BE INSTALLED IMMEDIATELY AFTER THE SOIL AMENDMENTS AND THE SEED ARE APPLIED. EROSION CONTROL BLANKET SHOULD ALSO BE INSTALLED ON OTHER STEEP SLOPES WHERE EROSION WILL BE A PROBLEM UNTIL VEGETATION IS ESTABLISHED. THE INSTALLATION PROCEDURE SHOULD COMPLY WITH THE RECOMMENDATIONS OF THE MANUFACTURER, INCLUDING SLOPE PREPARATION, ORIENTATION, TRENCHING, OVERLAP AND SPACING OF STAPLES.

STABILIZATION DURING NON-GROWING SEASONS:

1. ALL CONSTRUCTION SHOULD BE PLANNED FOR COMPLETION WITHIN THE RECOMMENDED DATES FOR THE APPLICATION OF PERMANENT SEEDING AND ESTABLISHMENT OF A PERMANENT VEGETATIVE COVER, HOWEVER, WHEN CONSTRUCTION MUST BE DONE AND IS COMPLETED DURING A NON-GROWING SEASON (WINTER TIME, ETC.), INTERIM STABILIZATION BMPs MUST BE IMPLEMENTED AND ADEQUATELY MAINTAINED. THE APPLICATION OF STRAW MULCH AT THE RATE OF THREE (3) TONS PER ACRE IS RECOMMENDED. THE BMPs SHOULD BE CHECKED WEEKLY (UNLESS SNOW COVERED) TO IDENTIFY AREAS THAT BECOME BARE. THESE BARE AREAS SHOULD BE COVERED WITH A PROPERLY INSTALLED EROSION CONTROL BLANKET OR MULCH.

STANDARD BMP MAINTENANCE SCHEDULE			
CONTROL MEASURE	INSPECT	PROBLEMS TO LOOK FOR	POSSIBLE REMEDIES
ROCK CONSTRUCTION ENTRANCE	ONCE A WEEK AND AFTER EVERY RUNOFF EVENT	STONE THICKNESS NOT CONSTANTLY MAINTAINED	ADD ROCK TO BRING TO SPECIFIED DIMENSIONS
PUMPED WATER FILTER BAG	BEFORE AND AFTER EACH USE	SEDIMENT ON PUBLIC ROADWAY	SWEEP MATERIAL BACK TO PROJECT SITE. DO NOT WASH ROADWAY WITH WATER
CONCRETE WASHOUT	BEFORE AND AFTER EACH USE	TORN FABRIC, TEARS, OR BREACHES	REPLACE FILTER BAG
COMPOST FILTER SOCK	ONCE A WEEK AND AFTER EVERY RUNOFF EVENT	SEDIMENT ESCAPING WITH PURGE WATER MORE THAN 50% FILLED WITH SEDIMENT	REMOVE SEDIMENT, SPREAD OVER SITE
		MORE THAN 50% FILLED WITH SEDIMENT	REMOVE SEDIMENT, DISPOSE OF PROPERLY PER SPECIFICATIONS
		BARRIER HAS BEEN UNDERMINED OR TOPPED	REPLACE WITH A ROCK FILTER OUTLET
		SEDIMENT AT 1/2 HEIGHT OF BARRIER	REMOVE SEDIMENT AND DISPOSE OF PROPERLY PER SPECIFICATION, INCREASE NUMBER OF STAPLES AT AFFECTED AREA
		TORN OR DAMAGED FABRIC	REPAIR ACCORDING TO MANUFACTURE SPECIFICATIONS OR REPLACE
		SOCK IS OLDER THAN PERMITTED	REPAIR ACCORDING TO MANUFACTURE'S SPECIFICATIONS OR REPLACE
		RUNOFF ESCAPING AROUND BARRIER	EXTEND BARRIER
VEGETATIVE FILTER STRIP	ONCE A WEEK AND AFTER EVERY RUNOFF EVENT	CLOGGING OR APPEARANCE OF SEDIMENT AND DEBRIS	REMOVE SEDIMENT, DISPOSE OF PROPERLY PER SPECIFICATION
		EROSION	IMPROVE THE LEVEL SPREADER OR OTHER DISPERSION METHOD
		FORMATION OF RILLS AND GULLIES	STABILIZE WITH EROSION CONTROL MATTING, AND EITHER SEEDED OR SODDED
INLET FILTER BAG	ONCE A WEEK AND AFTER EVERY RUNOFF EVENT	SEDIMENT AT 1/2 HEIGHT	CLEAN AND/OR REPLACE BAG
RUNOFF CONVEYANCE	ONCE A WEEK AND AFTER EVERY RUNOFF EVENT	BARE SOIL PATCHES	RE-SEED AND RE-MULCH
		SEDIMENT WASH OUT	REGRADE AND REPAIR ANY UNDERMINED OR WASHED OUT AREA
SEDIMENT BASIN	ONCE A WEEK AND AFTER EVERY RUNOFF EVENT	FREE OF ROOTS, OR OTHER WOODY VEGETATION, ORGANIC MATERIAL, LARGE STONES, AND OTHER OBJECTABLE MATERIALS	RESTORE BASIN TO ORIGINAL DIMENSIONS
		EROSION, SEDIMENT ACCUMULATION, AND PILING	REPAIR OR REPLACE DAMAGED SECTIONS
BAFFLE	ONCE A WEEK AND AFTER EVERY RUNOFF EVENT	BROKEN OR DAMAGED PLYWOOD OR POSTS	REPAIR OR REPLACE DAMAGED SECTIONS
RIPRAP APRON	ONCE A WEEK AND AFTER EVERY RUNOFF EVENT	DISPLACEMENT OF RIPRAP	RESET RIPRAP TO ORIGINAL SPECIFICATIONS
VEGETATION STABILIZATION	ONCE A WEEK AND AFTER EVERY RUNOFF EVENT	SEDIMENT AT TOE-OF-SLOPE	CHECK FOR TOE-OF-SLOPE DIVERSION AND INSTALL IF NEEDED
		FORMATION OF RILLS AND GULLIES	FILL RILLS AND RE-GRADE GULLIED SLOPES
		BARE SOIL PATCHES	RE-SEED AND RE-MULCH
EROSION CONTROL BLANKET	ONCE A WEEK AND AFTER EVERY RUNOFF EVENT	TORN OR LOOSE STAPLED AREAS	REMOVE AND REPLACE IN ACCORDANCE WITH MANUFACTURER'S RECOMMENDATIONS
		SEDIMENT WASH OUT	REGRADE AND REPAIR ANY UNDERMINED OR WASHED OUT AREAS
		BLANKET DESTROYED OR DAMAGED	RE-SEED

NOTE: REFER TO BMP DETAIL AND NOTES FOR ADDITIONAL MAINTENANCE REQUIREMENTS AND REMEDIES.

DESCRIPTION OF STORMWATER BMPs:

1. ONE PERMANENT INFILTRATION BASIN HAVE BEEN DESIGNED TO CONTROL STORMWATER RELATED FLOWS AND VOLUMES FROM THE SUBSTATION IMPROVEMENT AREA. IN ADDITION TO THE INFILTRATION BASIN, ALL AREAS OUTSIDE OF THE SUBSTATION AND PERMANENT ACCESS ROAD, WILL BE RESTORED OR REVEGETATED TO A MEADOW CONDITION.

CRITICAL STAGES OF CONSTRUCTION:

1. ALL CONSTRUCTION STAGES FOR THE BASIN ARE CRITICAL AND MUST FOLLOW RECOMMENDED CONSTRUCTION SEQUENCE PROVIDED TO ENSURE STORMWATER CONTROL.

ANTIDEGRADATION DISCUSSION:

1. MC SOLAR I, LLC APPLYING FOR A GENERAL NPDES PERMIT FOR THE MC SOLAR PROJECT, AND THEREFORE NO ANTIDEGRADATION ANALYSIS IS REQUIRED. HOWEVER VARIOUS ABACT BMPs ARE SPECIFIED THROUGHOUT THE SITE.

MINIMIZE EXTENT AND DURATION OF EARTH DISTURBANCE:

1. EARTHWORK HAS BEEN LIMITED TO ONLY AREAS WHERE CONSTRUCTION ACCESS IS NEEDED TO INSTALL THE NEW SUBSTATION AND BESS, BASIN, ARRAYS AND ACCESS DRIVE. ALL AREAS WITHIN THE NPDES BOUNDARY BUT OUTSIDE OF THE GRADING LIMITS SHALL BE PROTECTED FROM DISTURBANCE.

MAXIMIZE PROTECTION OF EXISTING DRAINAGE FEATURES AND VEGETATION:

1. THE LOCATION OF THE SUBSTATION WAS SELECTED DUE TO THE PRESENCE OF TRANSMISSION LINES. THIS ALLOWS MINIMAL DISTURBANCE TO GROUND FEATURES SINCE THE MAJORITY OF WORK WILL BE COMPLETED AT THE SUBSTATION ITSELF. THE PROJECT PROPOSES NO IMPACT TO ANY EXISTING DRAINAGE FEATURES, AND WILL LEAVE MOST AREAS OUTSIDE OF THE SUBSTATION IN GENERALLY A BETTER VEGETATED CONDITION THAT THE CURRENT AGRICULTURAL FIELD.

THERMAL IMPACT ANALYSIS:

1. NO THERMAL IMPACTS AREA EXPECTED FROM THE PROPOSED SITE IMPROVEMENTS. ALTHOUGH THE SITE IS BEING DEVELOPED WITH A LARGE STONE SURFACE, THE DRAINAGE FROM THE SUBSTATION PAD WILL BE DIRECTED TO REVEGETATED AREAS. THE PROPOSED MEADOW CONDITIONS ARE DESIGNED TO CARRY THE STORMFLOWS TO THE INFILTRATION BASIN WHERE THEY ARE DESIGNED TO BE RELEASED OVER A SPECIFIC TIME PERIOD. THIS FLOW PATH TO THE INFILTRATION BASIN WILL PROVIDE ADEQUATE TIME FOR ANY INCREASED TEMPERATURES TO NEUTRALIZE PRIOR TO ENTERING INTO SURFACE WATERS. IN ADDITION, THE VEGETATED AREAS AND NATURE OF THE INFILTRATION BASIN WOULD FURTHER ALLOW ANY INCREASES TO DISSIPATE.

SITE CHARACTERIZATION OF SOIL AND GEOLOGY:

1. BEDROCK GEOLOGY: THE CUYAHOGA GROUP, SHENANGO FORMATION, AND POTTSVILLE FORMATIONS UNDERLAY THE PROJECT BOUNDARY AND CONTRIBUTING WATERSHEDS. BEDROCK GEOLOGIC INFORMATION WAS PROVIDED BY THE PADEP EMAPPA AND PA DCNR PAGEODE MAPPING PROGRAMS.

2. DEPTH TO SEASONAL HIGH GROUNDWATER: THE NRCS RESULTS RETURNED A DEPTH TO WATER TABLE OF LESS THAN 1'. ADDITIONAL GROUNDWATER AND BEDROCK INFORMATION IS DISCUSSED IN THE INFILTRATION SECTION OF THE PCSM REPORT.

3. KARST, ACIDIC ROCK AND LANDSLIDE SUSCEPTIBILITY: THE PROJECT AREA AND CONTRIBUTING DRAINAGE AREAS ARE OUTSIDE OF THE KNOWN LIMITS OF KARST ROCK FORMATIONS AND SUSCEPTIBLE LANDSLIDE AREAS AS PROVIDED BY THE PA DCNR PAGEODE MAPPING PROGRAM.

4. INFILTRATION: TEST PITS, OR SOIL BORINGS WHERE NECESSARY, WERE EXCAVATED TO APPROXIMATELY TWO FEET BELOW THE CONCEPTUAL BASIN BOTTOM ELEVATION, TO INVESTIGATE FOR LIMITING ZONES, (I.E. IMPERMEABLE SOILS, GROUNDWATER, AND/OR BEDROCK). INFILTRATION TESTS WERE THEN PERFORMED AT THE BASIN BOTTOM ELEVATION. INFILTRATION TESTING WAS PERFORMED IN ACCORDANCE WITH THE PROCEDURES DESCRIBED IN THE BMP MANUAL. DOUBLE RING INFILTRMETER TESTS WERE PERFORMED AT LOCATIONS. A SUMMARY OF THE INFILTRATION TEST RESULTS USED FOR NPDES CALCULATIONS IS PROVIDED IN THE TABLE BELOW.

SEEDING AND MULCHING SPECIFICATIONS

1. SEEDING PREPARATION SHALL BE ACCOMPLISHED BY TRACKING THE AREAS TO BE SEED WITH A SMALL BULLDOZER OR OTHER COMPARABLE DEVICE IN AN UP AND DOWN PATTERN TO CREATE SMALL CONTOURS ALONG THE SLOPE. THESE SMALL DEPRESSIONS HELP REDUCE EROSION AND PROVIDE A POCKET FOR PROPER GERMINATION OF THE SEEDS. SOIL SUMPMENTS AS SHOWN BELOW WILL BE REQUIRED TO PREPARE THE AREA TO BE SEED.

2. MULCHING AS LISTED BELOW SHALL BE PERFORMED IMMEDIATELY AFTER THE APPLICATION OF LIME, FERTILIZER AND SEEDING MATERIALS. MULCH SHALL BE APPLIED IN CONJUNCTION WITH A TACKIFIER.

3. THE MOST EFFECTIVE PERIODS FOR VEGETATION ESTABLISHMENT ARE EARLY SPRING TO EARLY SUMMER AND LATE SUMMER TO MID FALL. SEEDING AND MULCHING CAN BE PERFORMED DURING OTHER PERIODS AS WEATHER CONDITIONS PERMIT. MAJOR ACTIVITIES OF DEVELOPMENT SHALL BE PLANNED TO COINCIDE WITH THESE PRIME GROWING SEASONS.

4. IF OUT-OF-SEASON TEMPORARY STABILIZATION IS NECESSARY, APPLY THE FULL-SPECIFIED QUANTITIES FOR SUPPLEMENTS, SEED AND MULCH. FULL MULCH RATE APPLICATIONS WILL BE REQUIRED FOR EACH SEEDING APPLICATION TO PREVENT SOIL EROSION UNTIL SEED GERMINATES. PERMANENT STABILIZATION SHALL BE APPLIED DURING THE NEXT GROWING SEASON.

TEMPORARY VEGETATIVE STABILIZATION:

1. ANNUAL RYEGRASS SHALL BE USED AT A RATE OF 1 LB/1000 SF OR 40 LBS PER ACRE; WINTER RYE SHALL BE USED AT A RATE OF 3.5 LBS/1000 SF. STABILIZATION EFFORTS DURING THE NON-GERMINATING PERIOD, OCT 15 TO MARCH 15 SHOULD CONSIST OF MULCHING WITH CLEAN STRAW AT A RATE OF 3 TONS/ACRE. CLEAN STRAW MULCH SHOULD NOT BE FINELY CHOPPED OR BROKEN DURING APPLICATION. THE PURE LIVE SEED SHALL BE 85%.

5. STRAW AND HAY MULCH SHOULD BE ANCHORED OR TACKIFIED IMMEDIATELY AFTER APPLICATION TO PREVENT BEING WINDBLOWN. A TRACTOR-DRAWN IMPLEMENT MAY BE USED TO "CRIMP" THE STRAW OR HAY INTO THE SOIL - ABOUT 3 INCHES. THIS METHOD SHOULD BE LIMITED TO SLOPES NO STEEPER THAN 3H:1V. THE MACHINERY SHOULD BE OPERATED ON THE CONTOUR. CRIMPING OF HAY OR STRAW BY RUNNING OVER IT WITH TRACKED MACHINERY IS NOT RECOMMENDED.

SOIL SUPPLEMENT RATES:		MULCH TYPE - MULCHING:	
SUPPLEMENTS	APPLICATION RATE*	MULCH TYPE	APPLICATION RATE*
AGRICULTURAL LIME	1 TON/ACRE	CLEAN STRAW	3 TONS PER ACRE
10-10-10 COMMERCIAL FERTILIZER	500 LBS PER ACRE	EITHER WHEAT OR OAT STRAW, FREE OF WEEDS, NOT CHOPPED OR FINELY BROKEN	

SOIL SUPPLEMENT RATES:		MULCHING:	
SUPPLEMENTS	APPLICATION RATE*	MULCH TYPE	APPLICATION RATE*
AGRICULTURAL LIME	6 TON PER ACRE	CLEAN STRAW	3 TONS PER ACRE
10-10-20 COMMERCIAL FERTILIZER	1,000 LB PER ACRE	EITHER WHEAT OR OAT STRAW, FREE OF WEEDS, NOT CHOPPED OR FINELY BROKEN	

30 LBS/ACRE

PERMANENT VEGETATIVE STABILIZATION:

1. ALL DISTURBED AREAS THAT ARE NOT TO BE PAVED SHALL BE COVERED WITH GRASS OR A LEGUME IN ORDER TO MINIMIZE EROSION, UNLESS ANOTHER SUITABLE GROUND COVER IS DIRECTED BY THE OWNER.

2. AREAS WITHIN ARRAYS SHALL BE ERNST MIX - 15%, OR APPLICANT AND/OR REPRESENTATIVE APPROVED EQUAL, ALL OTHER AREAS SHALL BE A SPECIFIED BELOW.

3. STRAW AND HAY MULCH SHOULD BE ANCHORED OR TACKIFIED IMMEDIATELY AFTER APPLICATION TO PREVENT BEING WINDBLOWN. A TRACTOR-DRAWN IMPLEMENT MAY BE USED TO "CRIMP" THE STRAW OR HAY INTO THE SOIL - ABOUT 3 INCHES. THIS METHOD SHOULD BE LIMITED TO SLOPES NO STEEPER THAN 3H:1V. THE MACHINERY SHOULD BE OPERATED ON THE CONTOUR. CRIMPING OF HAY OR STRAW BY RUNNING OVER IT WITH TRACKED MACHINERY IS NOT RECOMMENDED.

4. TO BE INSTALLED IN AREAS NOT BE MAINTAINED AS MEADOW, INCLUDING ALONG THE PERIMETER OF THE SWITCH YARD AND BATTERY ENERGY STORAGE SYSTEM, SUBSTATION, AND INFILTRATION BASIN.

GENERAL PERMANENT SEEDING SPECIFICATIONS			BASIN BOTTOM SEEDING SPECIFICATIONS		
ERNMX-177, OR APPLICANT AND/OR REPRESENTATIVE APPROVED EQUAL, (EXCEPT INFILTRATION BASIN BOTTOM) WITH PURE LIVE SEED OF 85%			ERNMX-154, OR APPLICANT AND/OR REPRESENTATIVE APPROVED EQUAL, WITH PURE LIVE SEED OF 85%		
GERMINATION PERIODS:			GERMINATION PERIODS:		
MARCH 15TH - JUNE 1ST AND AUGUST 1ST - OCTOBER 15TH			MARCH 16TH - JUNE 1ST AND AUGUST 1ST - OCTOBER 15TH		
COMMON NAME	PERCENTAGE OF MIXTURE	APPLICATION RATE	COMMON NAME	PERCENTAGE OF MIXTURE	APPLICATION RATE
KY. BLUEGRASS	30	4 LBS/1000 SF	DEERTONGUE	30	30 LBS/ACRE
CREEP RED FESCUE	55		VIRGINIA WILD RYE	16	
PERENNIAL RYEGRASS	15		BIG BLUESTEM	14	
			FOX SEDGE	14	
			SWITCHGRASS	5	
		BLUE VERVAIN	4		
		BONESET	3		
		GREAT BLUE LOBELIA	2		
		FRINGED SEDGE	2		
		OXEYE SUNFLOWER	2		
		SHOWY TICK TREFOIL	2		
		JOE PYE WEDD	2		
		SWAMP MILKWEED	2		
		PURPLESTEM ASTER	1		
		WILD BERGAMOT	1		

SOIL SUPPLEMENT RATES:		MULCHING:	
SUPPLEMENTS	APPLICATION RATE*	MULCH TYPE	APPLICATION RATE*
AGRICULTURAL LIME	6 TON PER ACRE	CLEAN STRAW	3 TONS PER ACRE
10-10-20 COMMERCIAL FERTILIZER	1,000 LB PER ACRE	EITHER WHEAT OR OAT STRAW, FREE OF WEEDS, NOT CHOPPED OR FINELY BROKEN	

30 LBS/ACRE

SOIL NAME AND SLOPE		CUTBANKS CAVE	CORROSION TO CONCRETE/STEEL	DROUGHT	EASILY ERODIBLE	FLOODING	FLOODING	SATURATED ZONE/SEASONAL HIGH WATER TABLE	HYDROCHORIC INCLUSIONS	LOW STRENGTH/LANDSLIDE PRONE	SLOW PERCOLATION	POOR SOURCE OF TOPSOIL	FROST ACTION	SHRINK - SWELL	POTENTIAL SINKHOLE	PONDING	WETNESS
FRENCHTOWN		X	C/S	X	X	X	X	X	X	X	X	X	X	X		X	X
RAVENNA			C/S	X		X				X	X	X	X				X

RESOLUTIONS TO ADDRESS SOIL LIMITATIONS:

1. AREAS TO BE FILLED ARE TO BE CLEARED, GRUBBED, AND STRIPPED OF TOPSOIL TO REMOVE TREES, VEGETATION, ROOTS, AND OTHER OBJECTIONABLE MATERIAL.

2. 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.

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

4. 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.

5. FROZEN MATERIALS OR SOFT, MUCKY, OR HIGHLY COMPRESSIBLE MATERIALS SHALL NOT BE INCORPORATED INTO FILLS.

6. FILL SHALL NOT BE PLACED ON SATURATED OR FROZEN SURFACES.

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

8. SPECIFIC SOIL LIMITATION AND THEIR RESOLUTIONS:

CUTBANKS CAVE:

SAFEGUARD WORKERS DURING EXCAVATION.

CORROSION TO CONCRETE/STEEL:

ALL PROPOSED CONSTRUCTION HAS BEEN DESIGNED WITH ANTI-CORROSIVE MATERIALS TO PREVENT CORROSION TO CONCRETE AND STEEL.

DROUGHT:

TO REACH COHESIVE REQUIREMENTS, INCREASE SOIL MOISTURE CONTENT AS NECESSARY.

EASILY ERODIBLE:

STONE AGGREGATE WILL BE USED IN ACCESS ROAD CONSTRUCTION TO LIMIT EFFECTS OF SOILS WITH SEVERE ROAD CONSTRUCTION LIMITATIONS. STONE AGGREGATE IS TO BE PLACED TO IMMEDIATELY STABILIZE ROADWAY SOILS.

FLOODING:

ANY AREA SHOWING SIGNS OF FLOODING SHALL BE IMMEDIATELY OVERLAID WITH TIMBER MATTING, OR EQUIVALENT STABILIZATION MEASURE, TO PREVENT ANY FURTHER DAMAGE TO EXISTING GROUND.

DEPTH TO SATURATED ZONE/SEASONAL HIGH WATER TABLE:

ANY AREA SHOWING SIGNS OF SURFACE WATER OR SEVERE "PUMPING" OF THE SOILS SHALL BE IMMEDIATELY OVERLAID WITH TIMBER MATTING, OR EQUIVALENT STABILIZATION MEASURE, TO PREVENT ANY FURTHER DAMAGE TO EXISTING GROUND.

HYDRIC/HYDRIC INCLUSIONS:

AVOID WETLAND AREAS AS DENOTED ON DRAWINGS.

LOW STRENGTH/LANDSLIDE PRONE:

LIMIT CUT BANKS TO 2:1 SLOPE AND FILL BANKS TO 3:1 SLOPE.

SLOW PERCOLATION:

ALL INFILTRATION AREAS ARE DESIGNED TO BE AS SHALLOW AS POSSIBLE.

PIPING:

EXERCISE CAUTION DURING BASIN EMBANKMENT CONSTRUCTION BY INSTALLING CLAY CORE AND KEY TRENCH.

POOR SOURCE OF TOPSOIL:

SOIL AMENDMENT MAY BE REQUIRED FOR PERMANENT STABILIZATION SEE NOTE FROM ABOVE.

FROST ACTION:

INSTALL BUILDING FOOTERS BELOW FROSTLINE, DO NOT USE UNSUITABLE SOIL FOR EMBANKMENT CONSTRUCTION.

POTENTIAL SINKHOLE:

MINIMIZE DISTURBANCE IN SINKHOLE-PRONE SOILS AND MONITOR FOR SINKHOLE DEVELOPMENT. UTILIZE THE SINKHOLE REPAIR DETAIL IF A SINKHOLE IS ENCOUNTERED.

PONDING:

IF PONDING IS ENCOUNTERED DURING CONSTRUCTION, DIRECT DEWATERING PUMP DISCHARGE TO A SEDIMENT FILTER BAG AND IMPLEMENT MEASURES TO PROMOTE SHEET FLOW.

WETNESS:

SOILS SHALL BE IMMEDIATELY OVERLAID WITH TIMBER MATTING, OR EQUIVALENT STABILIZATION MEASURE, AMEND SOILS AS NEEDED TO DRY OUT/ADJUST PH IN ORDER TO ACHIEVE VEGETATIVE STABILIZATION.

5

11/4/2024

Updated per Mercer Co Regional Planning Commission email from Nov 1, 2024

A.N.

J.C.S.

K.M.S.

4

9/19/2024

Updated per Mercer Co Regional Planning Commission meeting from July 31, 2024

A.N.

J.C.S.

K.M.S.

3

1/17/2024

Updated per Mercer CCD Review Letter Dated Dec 19, 2023

A.N.

J.C.S.

K.M.S.

2

11/6/2023

Updated per Mercer CCD Verbal Comments on Nov 2, 2023

A.N.

J.C.S.

K.M.S.

1

10/11/2023

Updated per Mercer CCD Review Letter Dated Sept 12, 2023

A.N.

J.C.S.

K.M.S.

0

6/30/2023

Preliminary Land Development Plan - Issued for Permitting

A.N.

J.C.S.

K.M.S.

REV.

DATE

DESCRIPTION

PREPARED

CHECKED

APPROVED

CONTRACTORS LOGO

WSP

Engineering & Construction

PROJECT:

MC SOLAR PROJECT
WEST SALEM TOWNSHIP, PA 16125, USA

FILE NAME:

CLASSIFICATION:

ANSI D

FORMAT:

NTS

SCALE:

PLOT SCALE:

SHEET:

003

UTILIZATION SCOPE:

TITLE:

SESC GENERAL NOTES-2

VALIDATED BY

VERIFIED BY

COLLABORATORS

GROUP

FUNCTION

TYPE

ISSUER

COUNTRY

REC.

PLANT

SYSTEM

PROGRESSIVE

REVISION

PLAN PREPARER: KYLE M. SPAYD, P.E.
WSP USA
350 EAGLEVIEW BLVD, SUITE 250
EXTON, PA 19341
610-363-4846

GENERAL PCSM NOTES
1. THE PROJECT BOUNDARIES FALL IN THE OHIO RIVER BASIN, WHICH INCLUDES BIG RUN, SHENANGO RIVER AND MULTIPLE UNAMED TRIBUTARIES TO BOTH. THE CHAPTER 93 DESIGNATION WITHIN THE PROJECT AREA ARE:
BASIN
BIG RUN & UNT'S
SHENANGO RIVER & UNT'S
CHAP 93 DESIGNATION
WWF

MANAGEMENT OF FILL NOTES
1. ANY CONTRACTOR SUPPLYING FILL OR REMOVING SOILS SHALL COMPLY WITH PENNSYLVANIA DEPS' "MANAGEMENT OF FILL", DOCUMENT NUMBER 258-2182-773.
2. CLEAN FILL IS DEFINED AS UNCONTAMINATED, NONWATER SOLUBLE, NONDECOMPOSABLE INERT SOLID MATERIAL. CLEAN FILL INCLUDES SOIL, ROCK, STONE, DREGGED MATERIAL, USED ASPHALT AND BRICK, BLOCK OR CONCRETE FROM CONSTRUCTION AND DEMOLITION ACTIVITIES THAT IS SEPARATE FROM OTHER WASTE AND RECOGNIZABLE AS SUCH.
3. ENVIRONMENTAL DUE DILIGENCE IS DEFINED AS INVESTIGATIVE TECHNIQUES, INCLUDING, BUT NOT LIMITED TO, VISUAL PROPERTY INSPECTIONS, ELECTRONIC DATA BASE SEARCHES, REVIEW OF OWNERSHIP AND USE OF HISTORY, SANBORN MAPS, ENVIRONMENTAL QUESTIONNAIRES, TESTATION SCREENS, ANALYTICAL TESTING, ENVIRONMENTAL ASSESSMENTS OR AUDIT.
4. 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.
5. THE CONTRACTOR SHALL NOT ILLEGALLY BURY, DUMP, OR DISCHARGE ANY BUILDING MATERIAL OR WASTES AT THE SITE.

RECYCLING AND DISPOSAL OF MATERIALS
1. INDIVIDUALS RESPONSIBLE FOR EARTH DISTURBANCE ACTIVITIES MUST ENSURE THAT PROPER MECHANISMS ARE IN PLACE TO CONTROL WASTE MATERIALS. CONSTRUCTION WASTES INCLUDED THINGS SUCH AS, BUT ARE NOT LIMITED TO, EXCESS SOIL MATERIALS, DAMAGED NETTING OR MATTING, SANITARY WASTES, GENERAL TRASH, ETC. THAT COULD ADVERSELY AFFECT OR IMPACT WATER QUALITY. MEASURES SHOULD BE PLANNED AND IMPLEMENTED FOR HOUSEKEEPING OF THE SITE, MATERIALS MANAGEMENT, AND LITTER CONTROL. WHEREVER POSSIBLE, RECYCLING OF EXCESS MATERIALS IS PREFERRED RATHER THAN DISPOSAL.
2. 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 25 PA CODE 260.1 ET SEQ., 271.1 ET SEQ., AND 287.1 ET SEQ. THE CONTRACTOR SHALL NOT ILLEGALLY BURN, BURY, DUMP, OR DISCHARGE ANY BUILDING MATERIAL OR WASTES AT THE SITE.
3. SEDIMENT REMOVED FROM EROSION CONTROL MEASURES OR FACILITIES AND OTHER SOILS DEEMED UNSUITABLE FOR USE AS FILL SHALL BE STABILIZED AND DISPOSED OF OFFSITE IN AN APPROVED FACILITY. OFFSITE DISPOSAL MUST COMPLY WITH ALL LOCAL, COUNTY, STATE, AND FEDERAL RULES, REGULATIONS, AND LAWS.

CRITICAL STAGES OF CONSTRUCTION
CRITICAL STAGE OF CONSTRUCTION INVOLVES INSTALLATION OF INFILTRATION BASIN, AND CONFIRMING VEGETATIVE FILTER STRIPS ARE FUNCTIONING AS DESIGNED. ALL CONSTRUCTION STAGES FOR THE BASIN ARE CRITICAL AND MUST FOLLOW RECOMMENDED CONSTRUCTION SEQUENCE PROVIDED TO ENSURE STORMWATER CONTROL. A LICENSED PROFESSIONAL SHALL INSPECT AND CERTIFY BASIN FUNCTIONALITY PRIOR FILING NOTICE OF TERMINATION.

SITE CHARACTERIZATION OF THE SOIL AND GEOLOGY:
1. BEDROCK GEOLOGY: THE CUYAHOGA GROUP, SHENANGO FORMATION, AND POITTSVILLE FORMATIONS UNDERLAY THE PROJECT BOUNDARY AND CONTRIBUTING WATERSHEDS. BEDROCK GEOLOGIC INFORMATION WAS PROVIDED BY THE PA DEP EMAPPA AND PA DCNR PAGEODE MAPPING PROGRAMS.
2. DEPTH TO SEASONAL HIGH GROUNDWATER: THE NRCS RESULTS RETURNED A DEPTH TO WATER TABLE OF LESS THAN 1'. ADDITIONAL GROUNDWATER AND BEDROCK INFORMATION IS DISCUSSED IN THE INFILTRATION SECTION OF THE PCSM REPORT.
3. KARST, ACIDIC ROCKS AND LANDSCAPE SUSCEPTIBILITY: THE PROJECT AREA AND CONTRIBUTING DRAINAGE AREAS ARE OUTSIDE OF THE KNOWN LIMITS OF KARST ROCK FORMATIONS AND SUSCEPTIBLE LANDSLIDE AREAS AS PROVIDED BY THE PA DCNR PAGEODE MAPPING PROGRAM.
4. INFILTRATION: TEST PITS, OR SOIL BORINGS WHERE NECESSARY, WERE EXCAVATED TO APPROXIMATELY TWO FEET BELOW THE CONCEPTUAL BASIN BOTTOM ELEVATION, TO INVESTIGATE FOR LIMITING ZONES, (I.E. IMPERMEABLE SOILS, GROUNDWATER, AND/OR BEDROCK). INFILTRATION TESTS WERE THEN PERFORMED AT THE BASIN BOTTOM ELEVATION. INFILTRATION TESTING WAS PERFORMED IN ACCORDANCE WITH THE PROCEDURES DESCRIBED IN THE BMP MANUAL. DOUBLE RING INFILTRIMETER TESTS WERE PERFORMED AT LOCATIONS. A SUMMARY OF THE INFILTRATION TEST RESULTS USED FOR NPDES CALCULATIONS IS PROVIDED IN THE TABLE BELOW.

TOPSOIL APPLICATION
GRADED AREAS SHOULD BE SCARIFIED OR OTHERWISE LOOSENEED TO A DEPTH OF 3 TO 5 INCHES TO PERMIT BONDING OF THE TOPSOIL TO THE SURFACE AREAS AND TO PROVIDE A ROUGHENED SURFACE TO PREVENT TOPSOIL FROM SLIDING DOWN SLOPE.
TOPSOIL SHOULD BE UNIFORMLY DISTRIBUTED ACROSS THE DISTURBED AREA TO A DEPTH OF 4 TO 8 INCHES (2 INCHES ON FILL OUTSLOPES). SPREADING SHOULD BE DONE IN SUCH A MANNER THAT SODDING OR SEEDING CAN PROCEED WITH A MINIMUM OF ADDITIONAL PREPARATION OR TILLAGE. IRREGULARITIES IN THE SURFACE RESULTING FROM TOPSOIL PLACEMENT SHOULD BE CORRECTED IN ORDER TO PREVENT FORMATION OF DEPRESSIONS UNLESS SUCH DEPRESSIONS ARE PART OF THE POST CONSTRUCTION STORMWATER MANAGEMENT PLAN.
TOPSOIL SHOULD NOT BE PLACED OTHERWISE BE THE TOPSOIL OR SUBSOIL IS IN A FROZEN OR MUDDY CONDITION, WHEN THE SUBSOIL IS EXCESSIVELY WET, OR IN A CONDITION THAT MAY OTHERWISE BE DETRIMENTAL TO PROPER GRADING AND SEEDBED PREPARATION.

CUBIC YARDS OF TOPSOIL REQUIRED FOR APPLICATION TO VARIOUS DEPTHS		
DEPTH (IN)	PER 1,000 SQUARE FEET	PER ACRE
1	3.1	134
2	6.2	268
3	9.3	403
4	12.4	537
5	15.5	672
6	18.6	806
7	21.7	940
8	24.8	1,074

SOIL AMENDMENT APPLICATION RATE EQUIVALENTS				
PERMANENT SEEDING APPLICATION RATE				
SOIL AMENDMENT	PER ACRE	PER 1,000 SQ. FT.	SQ. YD.	NOTES
AGRICULTURAL LIME	6 TONS	240 LB	2,480 LB	OR AS PER SOIL TEST; MAY NOT BE REQUIRED IN AGRICULTURAL FIELDS
10-10-20 COMMERCIAL FERTILIZER	1,000 LB	25 LB	210 LB	OR AS PER SOIL TEST; MAY NOT BE REQUIRED IN AGRICULTURAL FIELDS
TEMPORARY SEEDING APPLICATION RATE				
AGRICULTURAL LIME	1 TON	40 LB	410 LB	TYPICALLY NOT REQUIRED FOR TOPSOIL STOCKPILES
10-10-20 COMMERCIAL FERTILIZER	500 LB	12.5 LB	100 LB	TYPICALLY NOT REQUIRED FOR TOPSOIL STOCKPILES

SEEDING AND MULCHING SPECIFICATIONS:
SEEDING PREPARATION SHALL BE ACCOMPLISHED BY TRACKING THE AREAS TO BE SEEDED WITH A SMALL BULLDOZER OR OTHER COMPARABLE DEVICE IN AN UP AND DOWN PATTERN TO CREATE SMALL CONTOURS ALONG THE SLOPE. THESE SMALL DEPRESSIONS HELP REDUCE EROSION AND PROVIDE A POCKET FOR PROPER GERMINATION OF THE SEEDS. SOIL SUPPLEMENTS, AS SHOWN BELOW, WILL BE REQUIRED TO PREPARE THE AREA TO BE SEEDED. MULCHING AS LISTED BELOW SHALL BE PERFORMED IMMEDIATELY AFTER THE APPLICATION OF LIME, FERTILIZER AND SEEDING MATERIALS. MULCH SHALL BE APPLIED IN CONJUNCTION WITH A TACKIFIER.
THE MOST EFFECTIVE PERIODS FOR VEGETATION ESTABLISHMENT ARE EARLY SPRING TO EARLY SUMMER AND LATE SUMMER TO MID FALL. SEEDING AND MULCHING CAN BE PERFORMED DURING OTHER PERIODS AS WEATHER CONDITIONS PERMIT. MAJOR ACTIVITIES OF DEVELOPMENT SHALL BE PLANNED TO COINCIDE WITH THESE PRIME GROWING SEASONS.
IF OUT-OF-SEASON TEMPORARY STABILIZATION IS NECESSARY, APPLY THE FULL-SPECIFIED QUANTITIES FOR SUPPLEMENTS, SEED AND MULCH. FULL MULCH RATE APPLICATIONS WILL BE REQUIRED FOR EACH SEEDING APPLICATION TO PREVENT SOIL EROSION UNTIL SEED GERMINATES. PERMANENT STABILIZATION SHALL BE APPLIED DURING THE NEXT GROWING SEASON.

GENERAL PERMANENT SEEDING SPECIFICATIONS		
ERNMX-177, OR APPLICANT AND/OR REPRESENTATIVE APPROVED EQUAL, (EXCEPT INFILTRATION BASIN BOTTOM) WITH PURE LIVE SEED OF 95% GERMINATION PERIODS: MARCH 15TH - JUNE 1ST AND AUGUST 1ST - OCTOBER 15TH COMMON NAME PERCENTAGE OF MIXTURE APPLICATION RATE		
KY BLUEGRASS	55	4 LBS/1000 SF
CREEP RED FESCUE	30	
PERENNIAL RYEGRASS	15	

BASIN BOTTOM SEEDING SPECIFICATIONS		
ERNMX-154, OR APPLICANT AND/OR REPRESENTATIVE APPROVED EQUAL, WITH PURE LIVE SEED OF 85% GERMINATION PERIODS: MARCH 16TH - JUNE 1ST AND AUGUST 1ST - OCTOBER 15TH COMMON NAME PERCENTAGE OF MIXTURE APPLICATION RATE		
DEERTONGUE	30	30 LBS/ACRE
VIRGINIA WILD RYE	16	
BIG BLUESTEM	14	
FOX SEDGE	14	
SWITCHGRASS	5	
BLUE VERNAIN	3	
BONESET	3	
GREAT BLUE LOBELIA	2	
FRINGED SEDGE	2	
OXYEYE SUNFLOWER	2	
SHOWY TICK TREFOLI	2	
JOE PYE WEDD	2	
SWAMP MILWEED	2	
PURPLESTEM ASTER	1	
WILD BERGAMOT	1	

SOIL SUPPLEMENT RATES:		
SUPPLEMENTS	APPLICATION RATE*	
AGRICULTURAL LIME	6 TON PER ACRE	
10-10-20 COMMERCIAL FERTILIZER	1,000 LB PER ACRE	

MULCHING:		
MULCH TYPE	APPLICATION RATE*	
CLEAN STRAW	3 TONS PER ACRE	
CRIPER WHEAT OR OAT STRAW, FREE OF WEEDS, NOT CHOPPED OR FINELY BROKEN	2 TONS PER ACRE	

STEEP SLOPES:
ON SLOPES STEEPER THAN 3:1, USE STEEP SLOPE MIXTURE AS RECOMMENDED BY THE PSU EROSION & CONSERVATION PLANTINGS ON NONCROPLAND OR SEED MIXTURE ERNMX-181, OR APPLICANT AND/OR REPRESENTATIVE APPROVED EQUAL, AS PROVIDED BY ERNST SEED MIXTURE:
SEEDING RATE: 30LB PER ACRE OR 1LB PER 1,000 SQ. FT.

WETLANDS:
SEEDING SHALL BE FACW WETLAND MEADOW MIX BY ERNST CONSERVATION SEEDS (ERNMX-122) OR APPLICANT AND/OR REPRESENTATIVE APPROVED EQUAL
SEEDING RATE: OF 15 LBS PER ACRE.

SOLAR ARRAY AREAS:
SOLAR ARRAY AREAS WILL BE SEEDED WITH THE SOLAR ARRAY AREA SEED MIX AS PREPARED FOR THE BBHF SOLAR SYNERGY PROGRAM, OR APPLICANT AND/OR REPRESENTATIVE APPROVED EQUAL.
SEEDING RATE : 38.5 LBS PER ACRE.

SOLAR ARRAY BUFFER AREAS:
AREAS OF DISTURBANCE OUTSIDE OF THE ACTUAL SOLAR ARRAYS (UNLESS SPECIFICALLY NOTED ELSEWHERE ON THIS PLAN) WILL BE SEEDED WITH THE SOLAR ARRAY BUFFER AREA SEED MIX AS PREPARED FOR THE BBHF SOLAR SYNERGY PROGRAM, OR APPLICANT AND/OR REPRESENTATIVE APPROVED EQUAL.
SEEDING RATE: 47.817 LBS. PER ACRE.

NOTES:
TEMPORARY STABILIZATION: UPON TEMPORARY CESSATION OF AN EARTH DISTURBANCE ACTIVITY OR ANY STAGE OR PHASE OF AN ACTIVITY WHERE A CESSATION OF EARTH DISTURBANCE ACTIVITY WILL EXCEED 4 DAYS, THE SITE SHALL BE IMMEDIATELY SEEDED, MULCHED, OR OTHERWISE PROTECTED FROM ACCELERATED EROSION AND SEDIMENTATION PENDING FUTURE EARTH DISTURBANCE ACTIVITIES.
PERMANENT STABILIZATION: 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.

GENERAL SEQUENCE OF CONSTRUCTION & BMP INSTALLATION AND REMOVAL

- 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, A LICENSED PROFESSIONAL RESPONSIBLE FOR OVERSIGHT OF CRITICAL STAGES OF IMPLEMENTATION OF THE PCSM PLAN, AND A REPRESENTATIVE FROM THE LOCAL CONSERVATION DISTRICT TO AN ON-SITE PRE-CONSTRUCTION MEETING.
- AT LEAST 3 DAYS PRIOR TO STARTING ANY EARTH DISTURBANCE ACTIVITIES, OR EXPANDING INTO AN AREA PREVIOUSLY UNMARKED, THE PENNSYLVANIA ONE CALL SERVICE (800-322-1777) SHALL BE CALLED TO IDENTIFY ANY EXISTING UNDERGROUND UTILITIES.MARK OUT THE LIMIT OF DISTURBANCE IN THE FIELD PRIOR TO START OF CONSTRUCTION ACTIVITIES.
- MARK OUT THE LIMIT OF DISTURBANCE AND WATERS OF THE COMMONWEALTH IN THE FIELD PRIOR TO START OF CONSTRUCTION ACTIVITIES.
- INSTALL ROCK CONSTRUCTION ENTRANCES AT THE LOCATION SHOWN ON THE PLAN DRAWINGS.
- INSTALL ALL PERIMETER SILT SOCKS AND ORANGE CONSTRUCTION FENCES AS INDICATED ON THE PLAN DRAWINGS.
- IF REQUIRED PERFORM TREE CLEARING AND GRUBBING OPERATIONS FOR THE ENTIRE SITE. THE USFWS IDENTIFIED AN AVOIDANCE MEASURE ON THE PNDI THAT THE PROJECT SHOULD CONDUCT ANY TREE CUTTING, DISTURBANCE, INUNDATION (FLOODING) AND PRESCRIBED BURNING FROM OCTOBER 1 TO MARCH 31. MC SOLAR I, LLC SHALL ADHERE TO THIS AVOIDANCE MEASURE.
- NO TRAP EROSION OR EROSION ON ACCESS ROAD. EROSION CONTROL MEASURES MUST BE INSTALLED PRIOR TO SEED AND MULCH. AREA OF CONSTRUCTION IS TO BE LIMITED TO THE AMOUNT OF ACCESS ROAD THAT CAN BE GRADED AND STABILIZED WITHIN THE FOUR DAY WORK PERIOD TO MEET IMMEDIATE STABILIZATION REQUIREMENTS.
- NOTE: SINCE TRANSMISSION LINE WORK AND SUBSTATION WORK ARE BEING SEQUENCES SEPARATELY, NO BORROW CAN BE TAKEN FROM THE SUBSTATION AREA UNTIL THE SEDIMENT BASIN IS INSTALLED AND FUNCTIONING. ALTERNATIVELY FILL MATERIALS NEEDED MUST BE ACQUIRED FROM AN APPROPRIATELY PERMITTED SOURCE IN ACCORDANCE WITH GENERAL NOTES.
- COMMENCE GRADING IF NEEDED FOR ACCESS ROAD TO STRUCTURES AS INDICATED IN THE E&S PLANS.
- ONCE ROAD IS CONSTRUCTED, IMMEDIATELY STABILIZE ROAD WITH AGGREGATE SURFACING AND SEED AND MULCH DISTURBED ROAD SHOULDER AREAS. ROAD SHOULD BE INSTALLED PRIOR TO SEED AND MULCH. AREA OF CONSTRUCTION IS TO BE LIMITED TO THE AMOUNT OF ACCESS ROAD THAT CAN BE GRADED AND STABILIZED WITHIN THE FOUR DAY WORK PERIOD TO MEET IMMEDIATE STABILIZATION REQUIREMENTS.
- FOLLOWING COMPLETION OF THE ACCESS ROAD TO THE LOCATION OF THE WORK PAD FOR STRUCTURE LOCATIONS, INSTALL SILT PERIMETER BARRIERS AND SILT SOCKS TO PROTECT THE SEDIMENT BASIN FROM THE WORK AREA FOR ARRAY CONSTRUCTION, INSTALL ANY STRIP THE TOPSOIL, IF NEEDED, AT THE PAD LOCATION AND STOCKPILE AS INDICATED ON THE E&S PLANS.
- GRADE THE WORK PAD SITE. IMMEDIATELY STABILIZE THE AREAS DISTURBED BY THE GRADING WITH AGGREGATE SURFACING. EROSION CONTROL BLANKET AND TEMPORARY SEEDING OR APPROVED ALTERNATIVE. EROSION CONTROL BLANKETING IS TO BE PLACED ON SLOPES 3:1V OR GREATER. PERMANENTLY SEED AND STABILIZE ALL NON AGGREGATE AREAS. ALL AREAS OUTSIDE OF THE WORKING SURFACE SHALL BE PERMANENTLY STABILIZED BY SEEDING, BLANKETING OR RIP-RAP AS INDICATED ON THE PCSM PLAN SHEETS.
- PROCEED WITH STRUCTURE INSTALLATION, HARDWARE AND CONDUCTOR INSTALLATION, TAKING CARE TO DISTURB THE SMALLEST AMOUNT OF AREA POSSIBLE. EXCESS SOILS FROM THE STRUCTURE EXCAVATION ARE TO BE STOCKPILED OR HAULED OFF-SITE IN ACCORDANCE WITH CHAPTER 102 GUIDELINES.
- NOTE: STRUCTURE WORK PADS CAN BE INSTALLED AHEAD OF STRUCTURE INSTALLATION. AS ONE PAD IS COMPLETED THE NEXT ONE CAN BE CONSTRUCTED, AND PAD CONSTRUCTION DOES NOT HAVE TO COINCIDE WITH THE STRUCTURE INSTALLATION.
- REPEAT STEPS 8 TO 13 FOR THE OTHER WORK PADS.
- WHEN THE ACCESS ROAD IS NO LONGER UTILIZED FOR CONSTRUCTION EQUIPMENT ACCESS, CONSTRUCTION TIMBER MATS MAY BE REMOVED SO THE CONTRACTOR IS ABLE TO RESTORE THE ROAD AREA WITH PERMANENT SEEDING, UNLESS NOTED ON THE PCSM PLANS TO REMAIN.
- RESTORATION IS TO BE COMPLETED IN ACCORDANCE WITH PLAN NOTES.
- PERIMETER BMPs SHALL BE MAINTAINED DURING CONSTRUCTION. POLE CONSTRUCTION WILL BE ON-GOING THROUGHOUT THE DURATION OF THE SUBSTATION SITE DEVELOPMENT. IN AREAS NOT OTHERWISE PROTECTED DURING INSTALLATION, PERIMETER BMPs MUST BE INSTALLED PRIOR TO COMMENCEMENT OF EARTH MOVING ACTIVITIES.
- PROCEED WITH UNDERGROUND ELECTRICAL LINE CONSTRUCTION, TAKING CARE TO DISTURB THE SMALLEST AMOUNT OF AREA POSSIBLE. EXCESS SOILS FROM THE EXCAVATION ARE TO BE STOCKPILED OR HAULED OFF-SITE IN ACCORDANCE WITH CHAPTER 102 GUIDELINES.
- SENDING AND RECEIVING PITS ARE IDENTIFIED ON THE PLANS. THE SENDING AND RECEIVING PITS SHOULD BE BACKFILLED AS SOON AS THE WORK IS COMPLETED AND THE SITE SHALL BE STABILIZED.
- UNDERGROUND ELECTRIC LINE INSTALLATION SHOULD BE COMPLETED PRIOR TO THE START OF THE SEEDING AND MULCHING. THE FOLLOWING SEQUENCE OF CONSTRUCTION SHOULD BE AS FOLLOWS:
 - PERFORM WORK IN DRY OR LOW FLOW CONDITIONS. IF THIS IS NOT POSSIBLE, CONSIDER IMPLEMENTATION OF ADDITIONAL CONSTRUCTION MATTING OR STONE STABILIZATION BMPs.
 - EXCAVATE AND STOCKPILE ALONG TRENCH IF SPECIFIED FOR BACKFILLING. ALL EXCAVATED MATERIAL SHALL BE HAULED OFF-SITE TO A PERMITTED LOCATION, FINAL GRADING, AND PERMANENT STABILIZATION SHALL OCCUR WITHIN FOUR DAYS OF COMPLETION OF THE WORK.
 - NEW SOLAR PANEL ARRAY CONSTRUCTION THROUGHOUT THE SITE MAY COMMENCE AT ANY TIME INDEPENDENT OF THE SUBSTATION EARTHWORK. ALL RELATING CONSTRUCTION WORK SHALL FOLLOW STEPS 22-29 BELOW.
 - NO SINGLE ROW PANEL ARRAY CONSTRUCTION THROUGHOUT THE SITE MAY COMMENCE AT ANY TIME INDEPENDENT OF THE SUBSTATION EARTHWORK. ALL RELATING CONSTRUCTION WORK SHALL FOLLOW STEPS 22-29 BELOW.
 - NEEDED MUST BE ACQUIRED FROM AN APPROPRIATELY PERMITTED SOURCE IN ACCORDANCE WITH GENERAL NOTES 10&11.
 - COMMENCE GRADING IF NEEDED FOR ACCESS ROAD TO STRUCTURES AS INDICATED IN THE E&S PLANS.
 - ONCE ROAD IS CONSTRUCTED, IMMEDIATELY STABILIZE ROAD WITH AGGREGATE SURFACING AND SEED AND MULCH DISTURBED ROAD SHOULDER AREAS. ROAD SHOULD BE INSTALLED PRIOR TO SEED AND MULCH. AREA OF CONSTRUCTION IS TO BE LIMITED TO THE AMOUNT OF ACCESS ROAD THAT CAN BE GRADED AND STABILIZED WITHIN THE FOUR DAY WORK PERIOD TO MEET IMMEDIATE STABILIZATION REQUIREMENTS.
 - FOLLOWING COMPLETION OF THE ACCESS ROAD TO THE LOCATION OF THE WORK AREA FOR ARRAY CONSTRUCTION, INSTALL ANY ADDITIONAL SILT SOCKS TO PROTECT THE SEDIMENT BASIN FROM THE WORK AREA FOR ARRAY CONSTRUCTION, INSTALL ANY STRIP THE TOPSOIL, IF NEEDED, AT THE WORK LOCATION AND STOCKPILE AS INDICATED ON THE E&S PLANS.
 - GRADE THE WORK AREA SITE. IMMEDIATELY STABILIZE THE AREAS DISTURBED BY THE GRADING WITH AGGREGATE SURFACING. EROSION CONTROL BLANKET AND TEMPORARY SEEDING OR APPROVED ALTERNATIVE. EROSION CONTROL BLANKETING IS TO BE PLACED ON SLOPES 3:1V OR GREATER. PERMANENTLY SEED AND STABILIZE ALL NON AGGREGATE AREAS. ALL AREAS OUTSIDE OF THE WORKING SURFACE SHALL BE PERMANENTLY STABILIZED BY SEEDING, BLANKETING OR RIP-RAP AS INDICATED ON THE PCSM PLAN SHEETS. IF MULTIPLE AREAS ARE UNDERGOING GRADING, EROSION AND SEDIMENT CONTROL MEASURES SHALL BE FREQUENTLY CHECKED TO CONFIRM ALL CONTROLS ARE FUNCTIONING PROPERLY. IF CURRENT MEASURES ARE INSUFFICIENT, ADDITIONAL APPROPRIATE MEASURES WILL BE REQUIRED AND APPROVED BY ALL APPROPRIATE PARTIES.
 - PROCEED WITH ARRAY INSTALLATION, TAKING CARE TO DISTURB THE SMALLEST AMOUNT OF AREA POSSIBLE. EXCESS SOILS FROM THE STRUCTURE EXCAVATION ARE TO BE STOCKPILED OR HAULED OFF-SITE IN ACCORDANCE WITH CHAPTER 102 GUIDELINES.
 - IF EROSION OCCURS AT THE DRIP END IN THE ARRAY SECTION, IMMEDIATELY STABILIZE THE AREA BY SEEDING, BLANKETING, OR INSTALLING A RIP-RAP.
 - PERIMETER BMPs SHALL BE MAINTAINED DURING CONSTRUCTION. ARRAY CONSTRUCTION WILL BE ON-GOING THROUGHOUT THE DURATION OF THE SUBSTATION AND BESS SITE DEVELOPMENT. IN AREAS NOT OTHERWISE PROTECTED DURING INSTALLATION, PERIMETER BMPs MUST BE INSTALLED PRIOR TO COMMENCEMENT OF EARTH MOVING ACTIVITIES.
 - STRIP AND STOCKPILE TOPSOIL FROM THE SEDIMENT BASIN. ALL AREAS OUTSIDE OF THE SEDIMENT BASIN MUST BE SEEDED AND MULCHED IMMEDIATELY AND SILT SOCK MUST BE INSTALLED ON THE DOWNSTREAM SIDE OF THE STOCKPILE.
 - EXCAVATE FOR BASIN AND OUTLET STRUCTURE, TEMPORARY RISER. CRITICAL STAGE OF CONSTRUCTION INVOLVES INSTALLATION OF THE SEDIMENT BASIN. A LICENSED PROFESSIONAL MUST CONFIRM THE BMPs ARE FUNCTIONING AS DESIGN.
 - TO MINIMIZE DISTURBANCE, THE OUTLET, OUTLET PIPING, PERMANENT RISER/OUTLET STRUCTURE AND TEMPORARY RISER WITH STUB SHOULD BE INSTALLED AT THE SAME TIME. INSTALL THE OUTLET STRUCTURE, RIP-RAP APRON, AND OUTLET STRUCTURE. TEMPORARY RISER, BAFFLE WALL, SEDIMENT BASIN DEWATERING DEVICE, AND CLEAN OUT STAKE. BEGIN AT OUTFALL AND CONSTRUCT FROM THE BOTTOM (ROCK APRON) WORKING UP TOWARDS THE OUTLET STRUCTURE AND TEMPORARY RISER. OUTFALL SHALL BE COMPLETED PRIOR TO START OF BERM GRADING.
 - ONCE THE OUTLET CONSTRUCTION IS COMPLETE, THE COMPOST FILTER SOCK DOWNSTREAM OF THE OUTLET PIPE SHALL BE PULLED ACROSS THE PIPE TO ALLOW BASIN DISCHARGES TO FLOW AS PLANNED. IF AT ANY MOMENT ANY COMPONENT(S) OF THE SEDIMENT BASIN IS NOT FUNCTIONING AS INTENDED, REPAIRS OR REPLACEMENTS ARE REQUIRED TO ENSURE PROPER FUNCTION OF THE BMP(S). BEGIN BASIN AND FILL AREA CONSTRUCTION AT TOE OF SLOPE TO CREATE A TEMPORARY BERM. AS CONSTRUCTION (FILLING) PROGRESSES BERM HEIGHT SHALL BE ADJUSTED SIMULTANEOUSLY TO MAINTAIN THE DESIGNED BERM. AS THE BASIN IS FILLED, EROSION CONTROL BLANKETING ON SLOPES AS THE WORK PROGRESSES. NO PORTION OF FILL SHALL BE LEFT UNSTABILIZED AT THE END OF THE WORK DAY.
 - INSTALL RIP RAP FOR THE EMERGENCY SPILLWAY AS SPECIFIED ON THE PLAN DRAWINGS.
 - COMPLETE FINAL GRADING FOR THE SEDIMENT BASIN AND OUTLET STRUCTURE.
 - SPREAD TOPSOIL OVER BASIN SIDE SLOPES DOWN TO THE SEDIMENT BASIN CLEAN OUT ELEVATION, THEN SEED AND MULCH WITH PERMANENT SEED MIX, ON BASIN SIDE SLOPES ONLY.
 - ENSURE THE BASIN OUTLETS ARE FUNCTIONAL AND STABILIZED PRIOR TO DISTURBING ADDITIONAL SITE AREA.
 - TOPSOIL FROM THE REMAINDER OF THE SITE MAY NOW BE STRIPPED UNTIL THE BASIN IS INSTALLED AND FUNCTIONING PROPERLY.
 - ONCE BASIN, CULVERTS AND PERIMETER BMP CONTROL HAVE BEEN INSTALLED AND CONFIRMED FUNCTIONING PROPERLY, THE EARTHWORK FOR THE SUBSTATION PAD MAY COMMENCE.
 - COMPLETE SUBSTATION ROUGH GRADING.
 - FINAL GRADED AREAS SHALL BE IMMEDIATELY STABILIZED WITH EROSION CONTROL BLANKETING OR RIPRAP OR GRAVEL SURFACE AS SHOWN THE SEEDING.
 - COMPLETE CONSTRUCTION OF THE SUBSTATION YARD AND ASSOCIATED EQUIPMENT.
 - BEGIN FILTER STRIP CONSTRUCTION WITH THE LEVEL SPREADER DEVICE AT THE UPGRADIENT EDGE OF THE STRIP AND ONLY WHEN THE UPGRADIENT SITE HAS BEEN SUFFICIENTLY STABILIZED AND TEMPORARY EROSION AND SEDIMENT CONTROL MEASURES ARE IN PLACE CARE SHOULD BE TAKEN TO MINIMIZE DISTURBANCE TO EXISTING VEGETATION AND TO MAINTAIN THE DESIGNED BERM.
 - AFTER THE SUBSTATION PAD CONSTRUCTION IS COMPLETE, ENSURE THE UPSTREAM DRAINAGE AREA TO THE SEDIMENT BASIN HAS BEEN STABILIZED (A MINIMUM UNIFORM 90% PERENNIAL VEGETATIVE COVER OR OTHER PERMANENT NON-VEGETATIVE COVER WITH A DENSITY SUFFICIENT TO RESIST ACCELERATED EROSION AND SUBSURFACE CHARACTERISTICS SUFFICIENT TO RESIST SLIDING AND OTHER MOVEMENTS).
 - REMOVE ALL SEDIMENT DEPOSITED WITHIN SEDIMENT BASIN.
 - CONVERT THE SEDIMENT BASIN INTO INFILTRATION BASIN BY REMOVING THE TEMPORARY RISER STRUCTURE, CLEAN OUT STAKE, BAFFLE WALLS AND SEDIMENT BASIN DEWATERING FACILITY FROM THE BASIN. THIS CONVERSION OF THE SEDIMENT BASIN TO AN INFILTRATION BASIN IS A CRITICAL STAGE OF CONSTRUCTION WHICH REQUIRES A LICENSED PROFESSIONAL TO CONFIRM THE PROPER INSTALLATION AND FUNCTION OF THE BMP.
 - ONCE TEMPORARY STUB PIPE IS REMOVED, THE PERMANENT OUTLET STRUCTURE SHALL BE PERMANENTLY REPAIRED, WITH BRICK AND MORTAR ARE PARGED TO SEAL TEMPORARY STUB HOLE AND ALL TEMPORARY COVERS AND RISER EXTENSION REMOVED.
 - FOR THE INFILTRATION BASIN, EXCAVATE DOWN TO THE PROPOSED BASIN TRENCH SYSTEM, USING LOW IMPACT MACHINERY WITH EXTREME CARE TO NOT COMPACT THE IN SITU SUBGRADE MATERIAL. ENSURE THE GATE VALVE IS OPEN DURING CONSTRUCTION FOR PROPER DRAINAGE.
 - PLACE TOPSOIL ON INFILTRATION BASIN BOTTOM AND NEWLY EXPOSED SIDEWALLS, PERMANENTLY SEED, AND MULCH ALL DISTURBED AREAS. THE SEDIMENT BASIN SHALL NOT BE CONVERTED TO AN INFILTRATION BASIN DURING NON-GERMINATING PERIODS. RE-GRADE, SEED, AND MULCH ALL DISTURBED AREAS. TEMPORARY EROSION CONTROL BLANKET MAY BE INSTALLED WITH PERMANENT SEEDING OVER THE ENTIRE INTERIOR OF THE BASIN.
 - ANY AREA WHERE ACTIVE GRADING HAS CEASED WHICH WILL ALLOW SOIL TO BE EXPOSED MUST BE TEMPORARILY SEEDED AND MULCHED IMMEDIATELY.
 - REMOVE ROCK CONSTRUCTION ENTRANCE, TIMBER MATS, ORANGE CONSTRUCTION FENCE, AND SILT SOCKS. SILT SOCKS MAY BE CUT OPEN AND COMPOST MEDIA SPREAD THIN ON SITE. STABILIZE AREAS DISTURBED BY THE BMP REMOVAL OPERATIONS.
 - REVEGETATION OR RESTORATION, AS INDICATED ON THE PLANS, IS TO BE COMPLETED IN ACCORDANCE WITH PLAN NOTES. (SEE SEQUENCE ON PCSM NOTES SHEET).
 - AN AREA SHALL BE CONSIDERED TO HAVE ACHIEVED PERMANENT STABILIZATION WHEN IT HAS A MINIMUM UNIFORM 90% 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.
 - WITHIN 30 DAYS AFTER THE COMPLETION OF EARTH DISTURBANCE ACTIVITIES, INCLUDING THE PERMANENT STABILIZATION OF THE SITE AND PROPER INSTALLATION OF PCSM BMPs IN ACCORDANCE WITH THE APPROVED PCSM PLAN, OR UPON SUBMISSION OF THE NOT TO BE SEEDING OR MULCHING STATEMENT, THE SITE SHALL BE INSPECTED BY THE PERMITTEE FOR A FINAL INSPECTION. COMPLETION CERTIFICATES ARE NEEDED TO ENSURE THAT ALL WORK IS PERFORMED IN ACCORDANCE WITH THE TERMS AND CONDITIONS OF THE PERMIT AND THE APPROVED E&S AND PCSM PLANS.

EROSION CONTROL BLANKET FOR STEEP SLOPES:
STEEP SLOPES AT 3:1V OR STEEPER THAT ARE DISTURBED FOR CONSTRUCTION, FOLLOWING TOPSOIL PLACEMENT, SHALL BE PROTECTED AGAINST EROSION WITH EROSION CONTROL BLANKET SUITABLE FOR THE ESTABLISHMENT OF VEGETATION. THE EROSION CONTROL BLANKET SHOULD BE INSTALLED IMMEDIATELY AFTER THE SOIL AMENDMENTS AND THE SEED ARE APPLIED. EROSION CONTROL BLANKET SHOULD ALSO BE INSTALLED ON OTHER STEEP SLOPES WHERE EROSION WILL BE A PROBLEM UNTIL VEGETATION IS ESTABLISHED. THE INSTALLATION PROCEDURE SHOULD COMPLY WITH THE RECOMMENDATIONS OF THE MANUFACTURER, INCLUDING SLOPE PREPARATION, ORIENTATION, TRENCHING, OVERLAP AND SPACING OF STAPLES.

LONG-TERM OPERATION AND MAINTENANCE SCHEDULE:
ALL WASTES AND MATERIALS DEPOSITED IN AND REMOVED FROM POST-CONSTRUCTION STORMWATER MANAGEMENT (PCSM) BMP FACILITIES AND FROM IMPERVIOUS AREAS (EX. SWEEPING OF STREETS & PARKING LOTS) DURING OPERATION AND MAINTENANCE SHALL BE REMOVED FROM THE SITE AND PROPERLY 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 WASTE MATERIALS SHALL BE BURNED, BURIED, DUMPED, OR DISCHARGED AT THE SITE.

MINIMIZE TOTAL DISTURBED AREA
1. AREAS THAT ARE OUTSIDE THE LIMIT OF DISTURBANCE SHALL NOT BE SUBJECT TO GRADING AND SHALL BE PROTECTED BY PHYSICALLY DELINEATING THE LIMIT OF EARTH DISTURBANCE IN THE FIELD DURING CONSTRUCTION BY DELINEATING THE AREAS IN THE FIELD PRIOR TO CONSTRUCTION WITH FLAGGING, FENCING, OR OTHER METHOD.
2. AREA SHALL NOT BE SUBJECT TO GRADING OR MOVEMENT OF EXISTING SOILS.
3. DRAINAGE OR OTHER REQUIRED MAINTENANCE TO THIS AVOIDANCE MEASURE SHALL BE LIMITED TO THE MINIMUM NECESSARY TO MAINTAIN THE AVOIDANCE MEASURE.
4. ADDITIONAL PLANTING IS PERMITTED.
5. IF FUTURE GRADING OR DISTURBANCE OF THIS AREA OCCURS, IN ASSOCIATION WITH THIS PROJECT, SUBSEQUENT STORM WATER MANAGEMENT MUST BE PROVIDED TO ADDRESS DISTURBANCE.

LANDSCAPE RESTORATION STABILIZATION OUTSIDE OF TEMPORARY STONE AREAS (BMP 6.7.2)
NORTHEAST NATIVE AND NATURALIZED GRASS MIXTURE #2904 (A BLEND OF VIRGINIA WILDRYE (ELYMUS VIRGINICUS), SILKY WILDRYE (ELYMUS VILLOSUS), CANADA WILDRYE (ELYMUS CANADENSIS), LITTLE BLUESTEM (ANDROPOGON SCOPARIUS), INDIANGRASS (SORGHASTRUM NUTANS) AS SOLD BY SEEDLAND INC OR EQUAL APPROVED BY MC SOLAR I, LLC. AT 8 LB./ACRE WHERE THERE IS MORE THAN 50% COVER PROVIDED BY EXISTING VEGETATION AND AT 17 LB./ACRE WHERE THERE IS LESS THAN 50% COVER PROVIDED BY EXISTING VEGETATION PLUS ANNUAL RYEGRASS AT A RATE OF 5 LB./ACRE, FERTILIZED WITH 10-20-20 AT A RATE OF 1000 LB./ACRE OR TO TEST, GROUND LIMED AT A RATE OF 6 TONS/ACRE OR TO TEST, AND MULCHED WITH STRAW.
RAKE THE SOIL TO FORM A CRUMBLY SEEDBED. DO NOT TILL DEEPLY AS THIS WILL ENCOURAGE NEW WEEDS TO GERMINATE ALONG WITH THE NATIVE AND NATURALIZED GRASSES.
2. APPLY SEED WITH EITHER A DRILL SEEDER, HYDROSEEDER, OR BROADCAST SPREADER ALONG WITH A CARRIER (SUCH AS SAND OR VERMICULITE). FOR SMALL SITES, SEEDS MAY BE BROADCAST BY HAND.
3. LIGHTLY RAKE TO ENSURE PROPER SOIL-SEED CONTACT. ROLL OR TRACK OVER THE SEEDBED AND APPLY A LIGHT STRAW MULCH TO PRESERVE MOISTURE AND AID SOIL STABILIZATION. FOR OPTIMUM GERMINATION, KEEP THE AREA EVENLY MOIST.

INFILTRATION BASIN INSPECTION:
1. MAINTENANCE IS NECESSARY TO ENSURE PROPER FUNCTIONALITY OF THE INFILTRATION BASIN AND SHOULD TAKE PLACE ON A QUARTERLY BASIS. A BASIN MAINTENANCE PLAN SHOULD BE DEVELOPED WHICH INCLUDES THE FOLLOWING MEASURES:
2. ALL BASIN STRUCTURES EXPECTED TO RECEIVE AND/OR TRAP DEBRIS AND SEDIMENT SHOULD BE INSPECTED FOR CLOGGING AND EXCESSIVE DEBRIS AND SEDIMENT ACCUMULATION AT LEAST FOUR TIMES PER YEAR, AS WELL AS AFTER EVERY STORM GREATER THAN 1 INCH.

- STRUCTURES INCLUDE BASIN BOTTOMS, TRASH RACKS, OUTLET STRUCTURES, RIPRAP, AND INLETS.
- SEDIMENT REMOVAL SHOULD BE CONDUCTED WHEN THE BASIN IS COMPLETELY DRY. SEDIMENT SHOULD BE DISPOSED OF PROPERLY AND ONCE SEDIMENT IS REMOVED, DISTURBED AREAS NEED TO BE IMMEDIATELY STABILIZED AND REVEGETATED.
- MOWING AND/OR TRIMMING OF VEGETATION SHOULD BE PERFORMED AS NECESSARY TO SUSTAIN THE SYSTEM, BUT ALL DETRITUS SHOULD BE REMOVED FROM THE BASIN.
- VEGETATED AREAS SHOULD BE INSPECTED ANNUALLY FOR EROSION AND UNWANTED GROWTH OF EXOTIC/INVASIVE SPECIES.
- VEGETATIVE COVER SHOULD BE MAINTAINED AT A MINIMUM OF 95 PERCENT. IF VEGETATIVE COVER HAS BEEN REDUCED BY 10%, VEGETATION SHOULD BE REESTABLISHED.

MONITORING AND MAINTENANCE OF PCSM BMPs
MC SOLAR I, LLC WILL BE RESPONSIBLE FOR THE PROPER CONSTRUCTION, STABILIZATION, AND MAINTENANCE OF ALL POST-CONSTRUCTION STORMWATER MANAGEMENT FACILITIES. MC SOLAR I, LLC WILL INSPECT PCSM BMPs FOR DAMAGE, EROSION, DISTRESSED VEGETATION, AND BARE GROUND.

GENERAL MAINTENANCE WILL INCLUDE REGULARLY REMOVING DEBRIS AND LITTER TO HELP PREVENT POSSIBLE DAMAGE TO VEGETATED AREAS. MC SOLAR I, LLC WILL CONTROL THE GROWTH OF WOODY VEGETATION BY PERIODICALLY MOWING THE FORMER EARTH DISTURBANCE AREA.

INFILTRATION BASIN AND SOIL AMENDMENT
THE VEGETATION ALONG THE SURFACE OF THE INFILTRATION BASIN SHOULD BE MAINTAINED IN GOOD CONDITION, AND ANY BARE SPOTS RE-VEGETATED AS SOON AS POSSIBLE.

- VEHICLES SHOULD NOT BE PARKED OR DRIVEN ON THE SEDIMENT BASIN, AND CARE SHOULD BE TAKEN TO AVOID EXCESSIVE COMPACTION BY MOWERS.
- INSPECT THE BASIN AFTER RUNOFF EVENTS AND MAKE SURE THE RUNOFF DRAINS WITHIN 72 HOURS.
- INSPECT THE ACCUMULATION OF SEDIMENT, DAMAGE TO OUTLET CONTROL STRUCTURES, EROSION CONTROL MEASURES, SIGNS OF WATER CONTAMINATION/SPILLS, AND SLOPE STABILITY OF THE BERMS.
- CORRECT EROSION PROBLEMS, DAMAGE TO VEGETATION, AND SEDIMENT AND DEBRIS ACCUMULATION.
- MOW 1-2 TIMES PER YEAR AND REMOVE INVASIVE PLANTS AS APPROPRIATE.
- REMOVE ACCUMULATED SEDIMENT FROM BASIN AS REQUIRED. RESTORE ORIGINAL CROSS-SECTION AND INFILTRATION RATE. PROPERLY DISPOSE OF SEDIMENT.
- ROUTINELY REMOVE TRASH AND DEBRIS.

VEGETATED FILTER STRIPS
• VEGETATED FILTER STRIP COMPONENTS THAT RECEIVE OR TRAP SEDIMENT AND DEBRIS SHOULD BE INSPECTED FOR CLOGGING, DENSITY OF VEGETATION, DAMAGE BY FOOT OR VEHICULAR TRAFFIC, EXCESSIVE ACCUMULATIONS, AND CHANNELIZATION.
• INSPECTIONS SHOULD BE MADE ON A QUARTERLY BASIS FOR THE FIRST TWO YEARS FOLLOWING INSTALLATION, AND THEN ON A BIENNIAL BASIS THEREAFTER. INSPECTIONS SHOULD ALSO BE MADE AFTER EVERY STORM EVENT GREATER THAN 1 IN DURING THE ESTABLISHMENT PERIOD.
• SEDIMENT AND DEBRIS SHOULD BE ROUTINELY REMOVED, OR UPON OBSERVATION, WHEN BUILDUP EXCEEDS 2 INCHES IN DEPTH IN EITHER THE STRIP ITSELF OR THE LEVEL SPREADER.
• MOWING AND TRIMMING OF VEGETATION SHOULD BE PERFORMED AS NECESSARY TO SUSTAIN THE SYSTEM, BUT ALL DETRITUS SHOULD BE REMOVED FROM THE BASIN.
• IN NO CASE SHOULD STANDING WATER BE TOLERATED FOR LONGER THAN 48-72 HOURS.
• GRASS COVER SHOULD BE MOWED, WITH LOW GROUND PRESSURE EQUIPMENT, AS NEEDED TO MAINTAIN A HEIGHT OF 4-6 INCHES. MOWING SHOULD BE DONE ONLY WHEN THE SOIL IS DRY, IN ORDER TO PREVENT TRACKING DAMAGE TO VEGETATION, SOIL COMPACTION, AND FLOW CONCENTRATIONS.
• IF VEGETATIVE COVER IS NOT FULLY ESTABLISHED WITHIN THE DESIGNATED TIME, IT SHOULD BE REPLACED WITH AN ALTERNATIVE SPECIES.
• SWAMPY AREAS OR AREAS WHERE VEGETATION IS NOT FULLY ESTABLISHED SHOULD BE REMOVED ON AN ANNUAL BASIS. BIWEEKLY INSPECTIONS ARE RECOMMENDED FOR AT LEAST THE FIRST GROWING SEASON, OR UNTIL THE VEGETATION IS PERMANENTLY ESTABLISHED.
• IF A FILTER STRIP EXHIBITS SIGNS OF POOR DRAINAGE AND/OR VEGETATIVE COVER, PERIODIC SOIL AERATION MAY BE NEEDED.

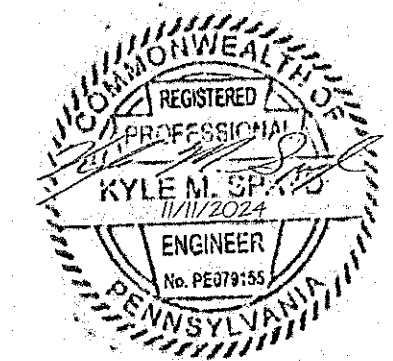
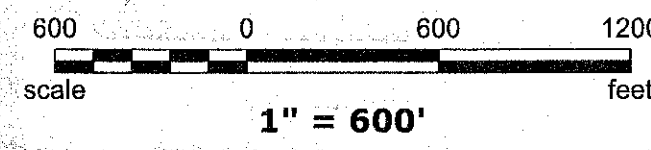
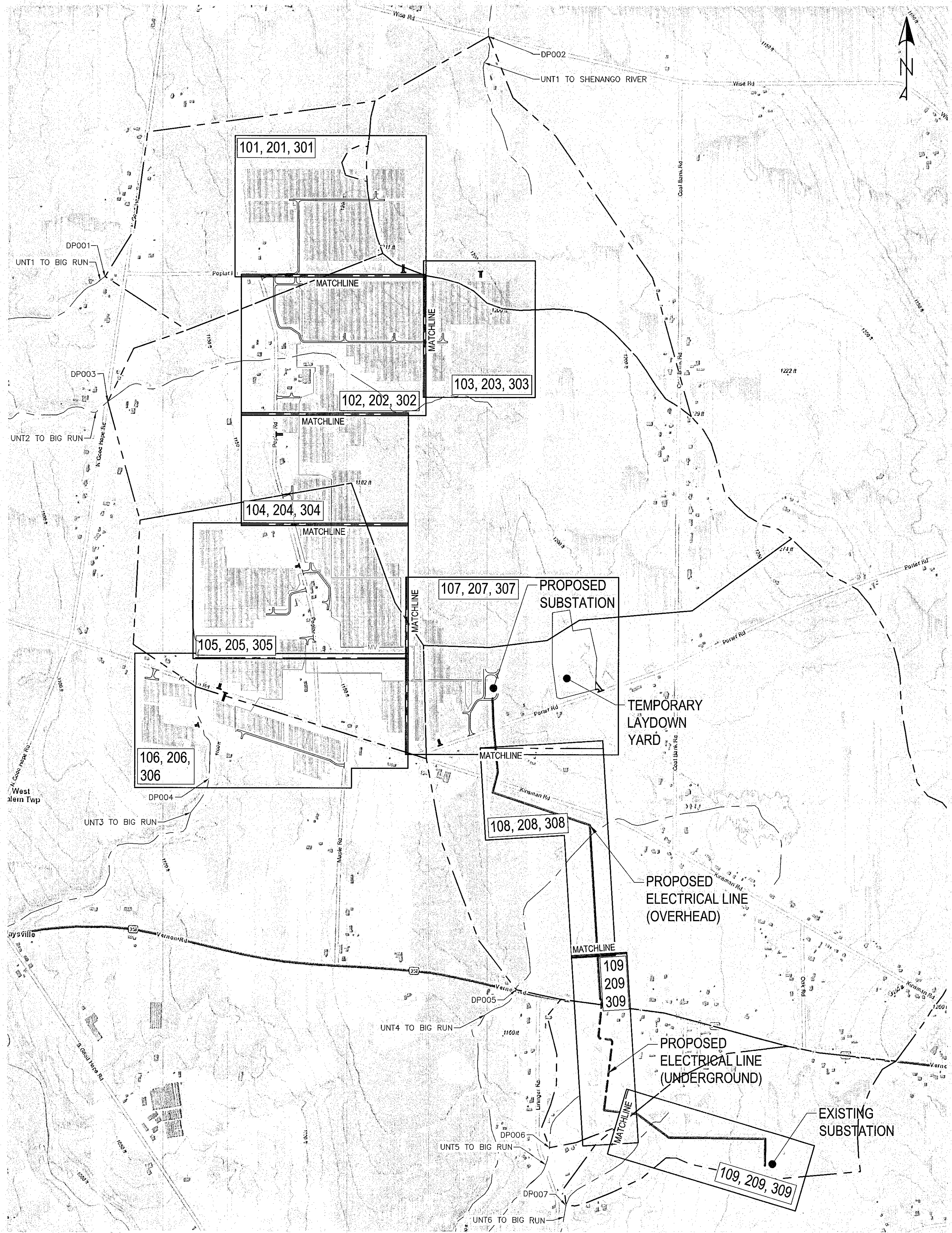
NATIVE AND NATURALIZED VEGETATION
• MOW 1-2 TIMES PER YEAR AND REMOVE INVASIVE PLANTS AS APPROPRIATE.
• THE VEGETATION SHOULD BE MAINTAINED IN GOOD CONDITION, AND ANY BARE SPOTS RE-VEGETATED AS SOON AS POSSIBLE.

RIPRAP APRONS
• INSPECT ANNUALLY TO ENSURE FUNCTIONALITY (OUTLET PROTECTION). ADD STONE AS REQUIRED.
• INSPECT FOR RILLS OR GULLIES BELOW OUTLET PROTECTION. IF THEY ARE PRESENT, EXTEND RIPRAP. RE-INSPECT REGULARLY.
• REMOVE TRASH AND DEBRIS.

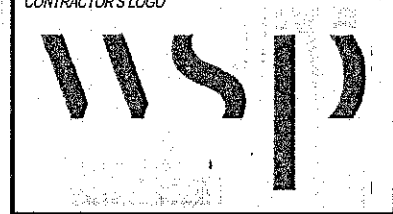
STABILIZATION DURING NON-GROWING SEASONS:
ALL CONSTRUCTION SHOULD BE PLANNED FOR COMPLETION WITHIN THE RECOMMENDED DATES FOR THE APPLICATION OF PERMANENT SEEDING AND ESTABLISHMENT OF A PERMANENT VEGETATIVE COVER. HOWEVER, IF CONSTRUCTION MUST BE DONE IN A NON-GROWING SEASON (WINTER TIME, ETC.), INTERIM STABILIZATION BMPs MUST BE IMPLEMENTED AND ADEQUATELY MAINTAINED. THE APPLICATION OF STRAW MULCH AT THE RATE OF THREE (3) TONS PER ACRE IS RECOMMENDED. THE BMPs SHOULD BE CHECKED WEEKLY (UNLESS SNOW COVERED) TO IDENTIFY AREAS THAT BECOME BARE. THESE BARE AREAS SHOULD BE COVERED WITH A PROPERLY INSTALLED EROSION CONTROL BLANKET OR MULCH.

PPC PLAN REQUIREMENT
CONTRACTOR SHALL DEVELOP AND IMPLEMENT A PREPAREDNESS, PREVENTION AND CONTINGENCY (PPC) PLAN FOR THE USE AND/OR STORAGE OF CHEMICALS, SOLVENTS OR OTHER WASTE OR MATERIALS THAT WILL HAVE THE POTENTIAL TO CAUSE ACCIDENTAL POLLUTION DURING EARTH DISTURBANCE ACTIVITIES.

DESCRIPTION OF STORMWATER BMPs:
1. ONE PERMANENT INFILTRATION BASIN HAS BEEN DESIGN TO CONTROL STORMWATER RELATED FLOWS AND VOLUMES FROM THE SUBSTATION IMPROVEMENT AREAS. IN ADDITION TO THE INFILTRATION BASIN, ALL ARE



5	11/14/2024	Updated per Mercer Co Regional Planning Commission email from Nov 1, 2024	A.N.	J.C.S.	K.M.S.
4	9/19/2024	Updated per Mercer Co Regional Planning Commission meeting from July 31, 2024	A.N.	J.C.S.	K.M.S.
3	1/17/2024	Updated per Mercer CCD Review Letter Dated Dec 19, 2023	A.N.	J.C.S.	K.M.S.
2	11/6/2023	Updated per Mercer CCD Verbal Comments on Nov 2, 2023	A.N.	J.C.S.	K.M.S.
1	10/11/2023	Updated per Mercer CCD Review Letter Dated Sept 12, 2023	A.N.	J.C.S.	K.M.S.
0	6/30/2023	Preliminary Land Development Plan - Issued for Permitting	A.N.	J.C.S.	K.M.S.
REV.	DATE	DESCRIPTION	PREPARED	CHECKED	APPROVED



Engineering & Construction

VALIDATION

VALIDATED BY

VERIFIED BY

COLLABORATORS

PROJECT:

MC SOLAR PROJECT
WEST SALEM TOWNSHIP, PA 16125, USA

FILE NAME:

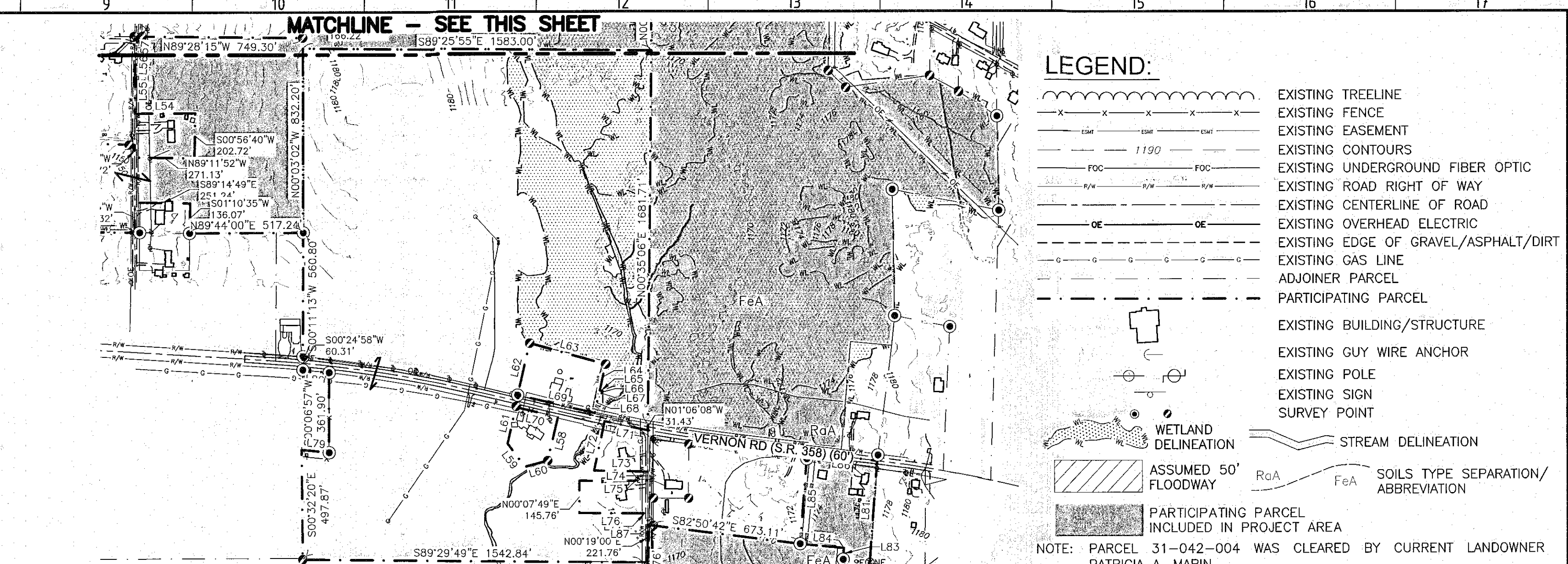
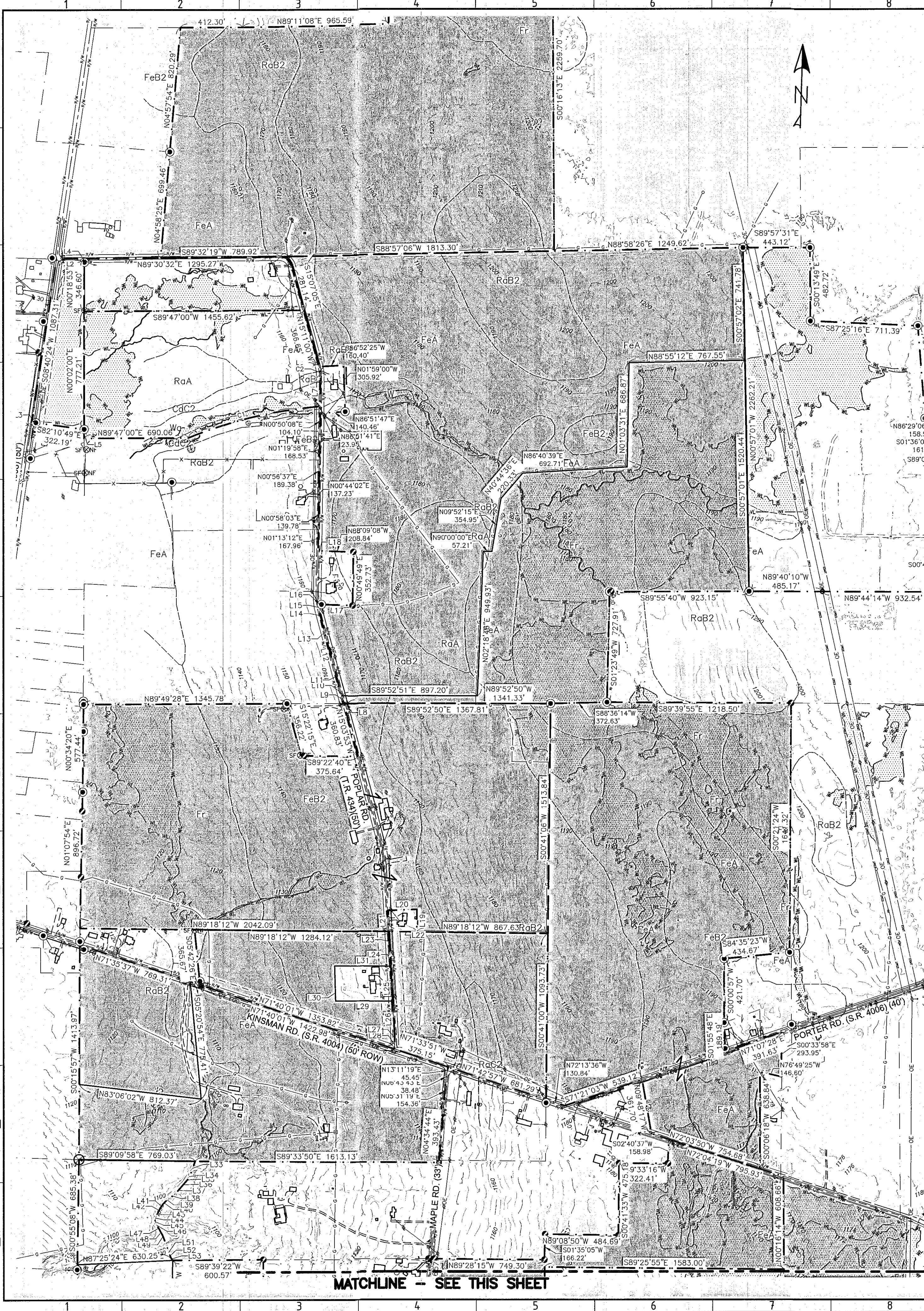
CLASSIFICATION:	FORMAT:	SCALE:	PLOT SCALE:	SHEET:
	ANSI D	1" = 700'		005

UTILIZATION SCOPE:

TITLE:

KEY PLAN

CODE									
GROUP	FUNCTION	TYPE	ISSUER	COUNTRY	TFC	PLANT	SYSTEM	PROGRESSIVE	REVISION



CURVE TABLE					
CURVE NO.	DELTA	RADIUS	LENGTH	CHORD BEARING	CHORD LENGTH
C1	017°14'02"	2991.56'	899.82'	N76°44'21"E	896.43'
C2	014°25'46"	315.19'	79.38'	N05°49'29"W	79.17'

LINE TABLE		
NUMBER	DIRECTION	LENGTH
L2	S89°30'32"W	183.23'
L3	S82°10'08"E	25.88'
L4	N00°18'53"E	24.81'
L5	S00°01'47"W	58.87'
L6	N12°06'50"W	18.12'
L7	N00°25'45"E	183.03'
L8	N89°52'51"W	26.48'
L9	N14°38'01"W	52.62'
L10	N15°27'58"W	43.29'
L11	N15°07'45"W	177.75'
L12	N15°07'10"W	137.73'
L13	N14°50'49"W	150.45'
L14	N13°44'02"W	73.30'
L15	N09°13'00"W	39.17'
L16	S88°01'05"E	21.70'
L17	S88°01'56"E	205.89'
L18	N88°09'13"W	24.53'
L19	N00°25'43"E	148.13'
L20	S87°45'57"W	194.52'
L21	S03°07'20"E	138.49'

LINE TABLE		
NUMBER	DIRECTION	LENGTH
L22	S89°18'12"E	185.74'
L23	N03°01'08"W	132.66'
L24	N03°50'41"W	147.02'
L25	N02°57'58"W	190.51'
L26	N03°30'09"W	214.82'
L27	N00°39'29"W	35.45'
L28	N02°54'37"E	54.87'
L29	N89°15'33"W	376.82'
L30	N01°31'48"W	230.34'
L31	S89°11'45"E	370.37'
L33	N19°58'00"E	97.46'
L34	N28°55'02"E	20.40'
L35	N39°14'00"E	32.45'
L36	N40°35'29"E	50.29'
L37	N42°22'39"E	46.22'
L38	N51°45'12"E	59.07'
L39	N52°25'38"E	27.94'
L40	N44°22'33"E	28.67'
L41	N31°36'58"E	29.03'
L42	N28°01'01"E	33.08'

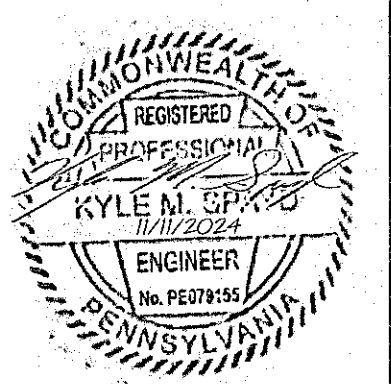
LINE TABLE		
NUMBER	DIRECTION	LENGTH
L43	N31°26'06"E	26.50'
L44	N12°17'34"E	24.13'
L45	N01°21'19"W	22.15'
L46	N34°06'42"W	28.61'
L47	N33°41'21"W	23.53'
L48	N29°04'37"W	37.17'
L49	N22°26'01"W	22.94'
L51	N17°23'42"W	24.57'
L52	N21°40'49"W	24.82'
L53	N33°41'43"W	21.61'
L54	N89°47'37"E	273.68'
L55	S00°20'40"W	205.12'
L56	S03°12'02"W	55.56'
L57	S05°47'20"W	86.82'
L58	S13°32'34"W	203.25'
L59	N36°57'00"W	130.51'
L60	S75°14'25"W	106.59'
L61	N13°02'43"E	168.69'
L62	N13°03'58"E	241.60'
L63	S74°28'11"E	358.18'

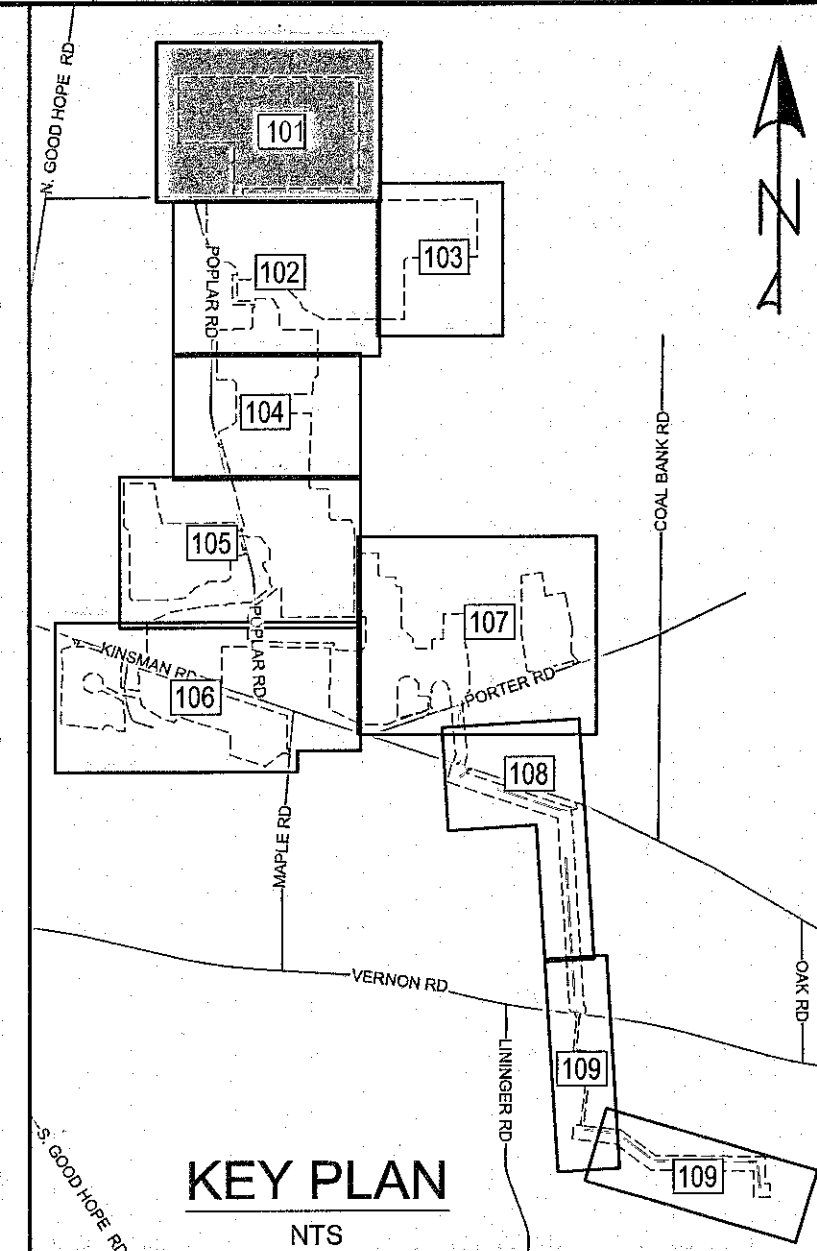
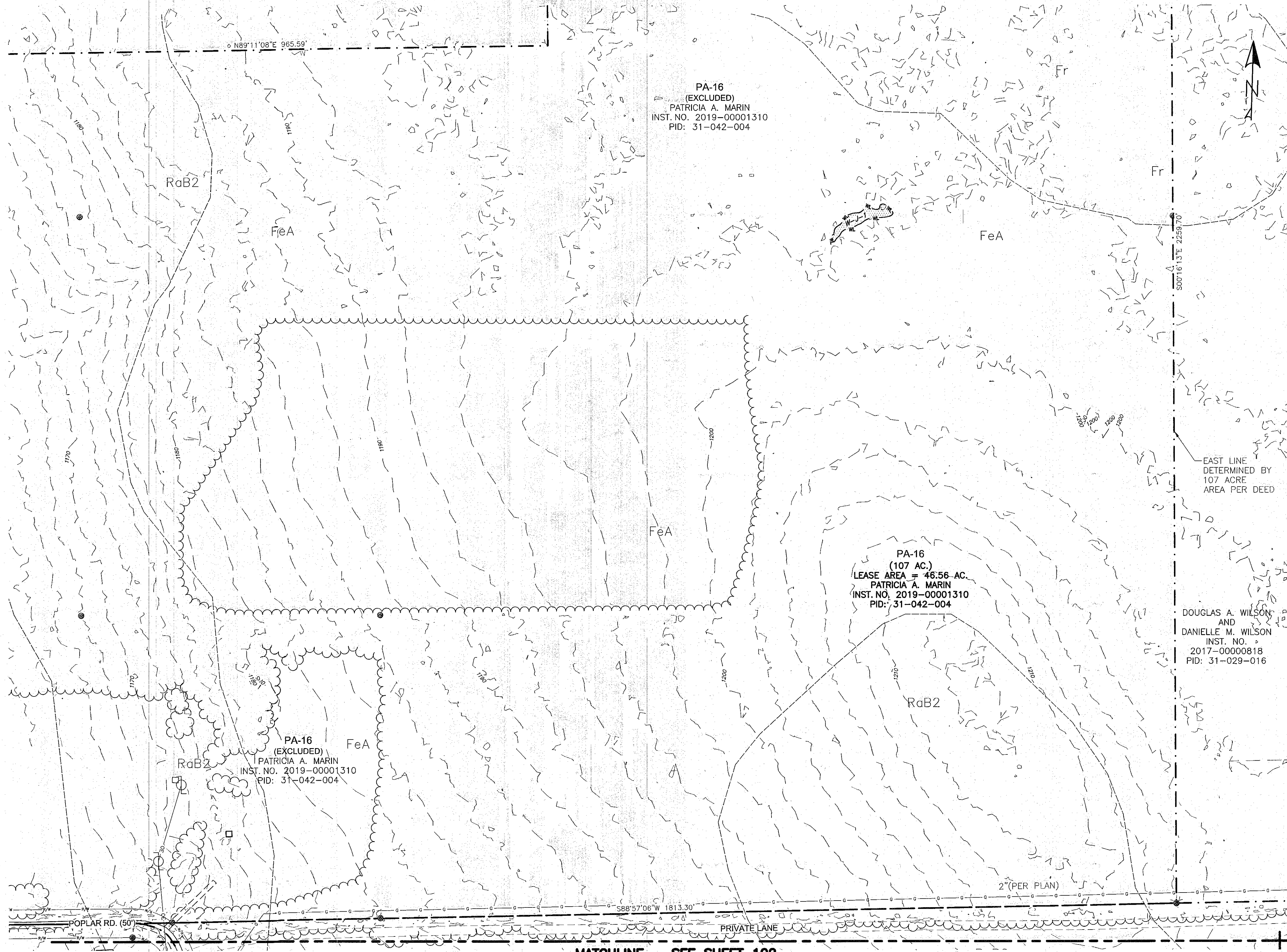
LINE TABLE		
NUMBER	DIRECTION	LENGTH
L65	S76°34'20"E	12.00'
L66	S13°25'40"W	10.00'
L67	N76°34'20"W	12.00'
L68	S13°25'40"W	95.01'
L69	N76°56'17"W	358.71'
L70	S77°03'42"E	196.02'
L71	S78°08'39"E	200.92'
L72	N12°09'06"E	227.23'
L73	N88°40'55"W	244.31'
L74	N00°21'59"E	41.49'
L75	S89°55'23"E	311.40'
L76	N89°36'55"W	285.83'
L77	N89°36'55"W	24.97'
L78	S89°27'44"E	24.04'
L79	N84°05'54"W	125.41'
L80	S84°16'27"E	119.81'
L81	N04°17'17"E	463.69'
L82	S82°24'23"E	122.05'
L83	S03°50'06"W	52.00'

LINE TABLE		
NUMBER	DIRECTION	LENGTH
L84	S84°33'16"E	199.71'
L85	S04°35'53"W	415.57'
L86	N83°02'05"W	320.02'
L87	S83°09'28"E	25.48'
L88	N89°22'08"E	25.62'
L89	S08°07'31"E	15.61'
L90	S89°09'08"W	139.73'
L91	S04°45'48"E	27.35'
L92	S01°38'11"E	18.94'
L93	S02°01'32"W	33.66'
L94	S03°06'26"W	18.96'
L95	S04°55'17"W	77.12'
L96	S05°52'18"W	152.97'
L97	S06°05'29"W	77.13'
L98	S05°31'25"W	17.61'
L99	S05°06'59"W	182.35'
L100	S03°40'28"W	35.45'
L101	S00°37'51"W	24.56'
L102	S00°32'19"E	41.80'
L103	N74°05'14"W	141.77'

LINE TABLE		
NUMBER	DIRECTION	LENGTH
L104	N78°48'14"W	100.68'
L105	N82°23'14"W	51.00'

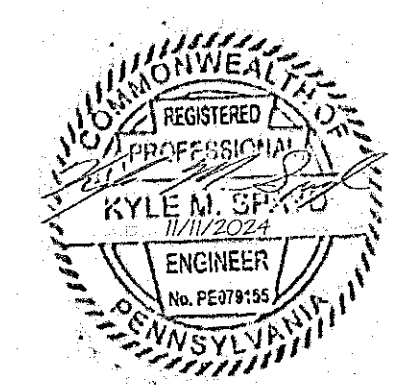
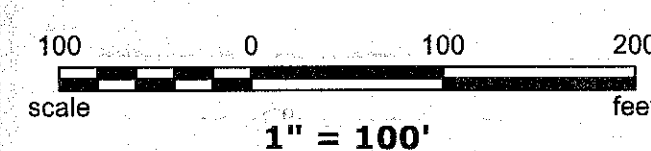
5	11/4/2024	Updated per Mercer Co Regional Planning Commission email from Nov 1, 2024	A.N.	J.C.S.	K.M.S.
4	9/19/2024	Updated per Mercer Co Regional Planning Commission meeting from July 31, 2024	A.N.	J.C.S.	K.M.S.
3	1/17/2024	Updated per Mercer CCD Review Letter Dated Dec 19, 2023	A.N.	J.C.S.	K.M.S.
2	1/16/2023	Updated per Mercer CCD Verbal Comments on Nov 2, 2023	A.N.	J.C.S.	K.M.S.
1	10/11/2023	Updated per Mercer CCD Review Letter Dated Sept 12, 2023	A.N.	J.C.S.	K.M.S.
0	6/30/2023	Preliminary Land Development Plan - Issued for Permitting	A.N.	J.C.S.	K.M.S.
REV.	DATE	DESCRIPTION	PREPARED	CHECKED	APPROVED
CONTRACTOR'S LOG			PROJECT: MC SOLAR PROJECT WEST SALEM TOWNSHIP, PA 16125, USA		
FILE NAME:			CLASSIFICATION:		
CLASSIFICATION:			FORMAT: ANSI D	SCALE: 1" = 400'	PLOT SCALE: 100
UTILIZATION SCOPE:			TITLE: OVERALL EXISTING PLAN		
Engineering & Construction VALIDATION			CODE		
VALIDATED BY	GROUP	FUNCTION	TYPE	ISSUER	COUNTRY
VERIFIED BY	PLANT	SYSTEM	PROGRESSIVE	REVISION	
COLLABORATORS					



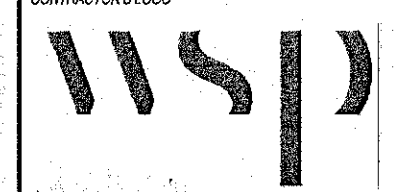


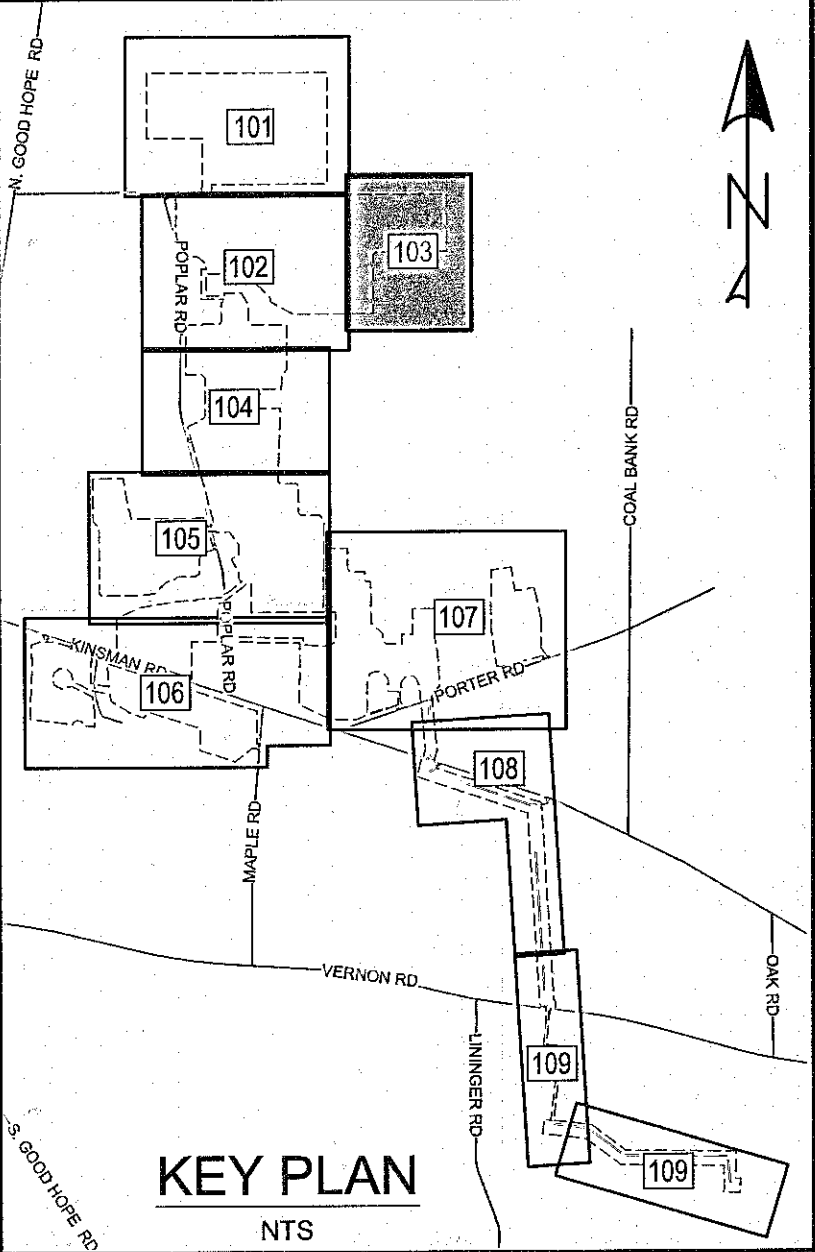
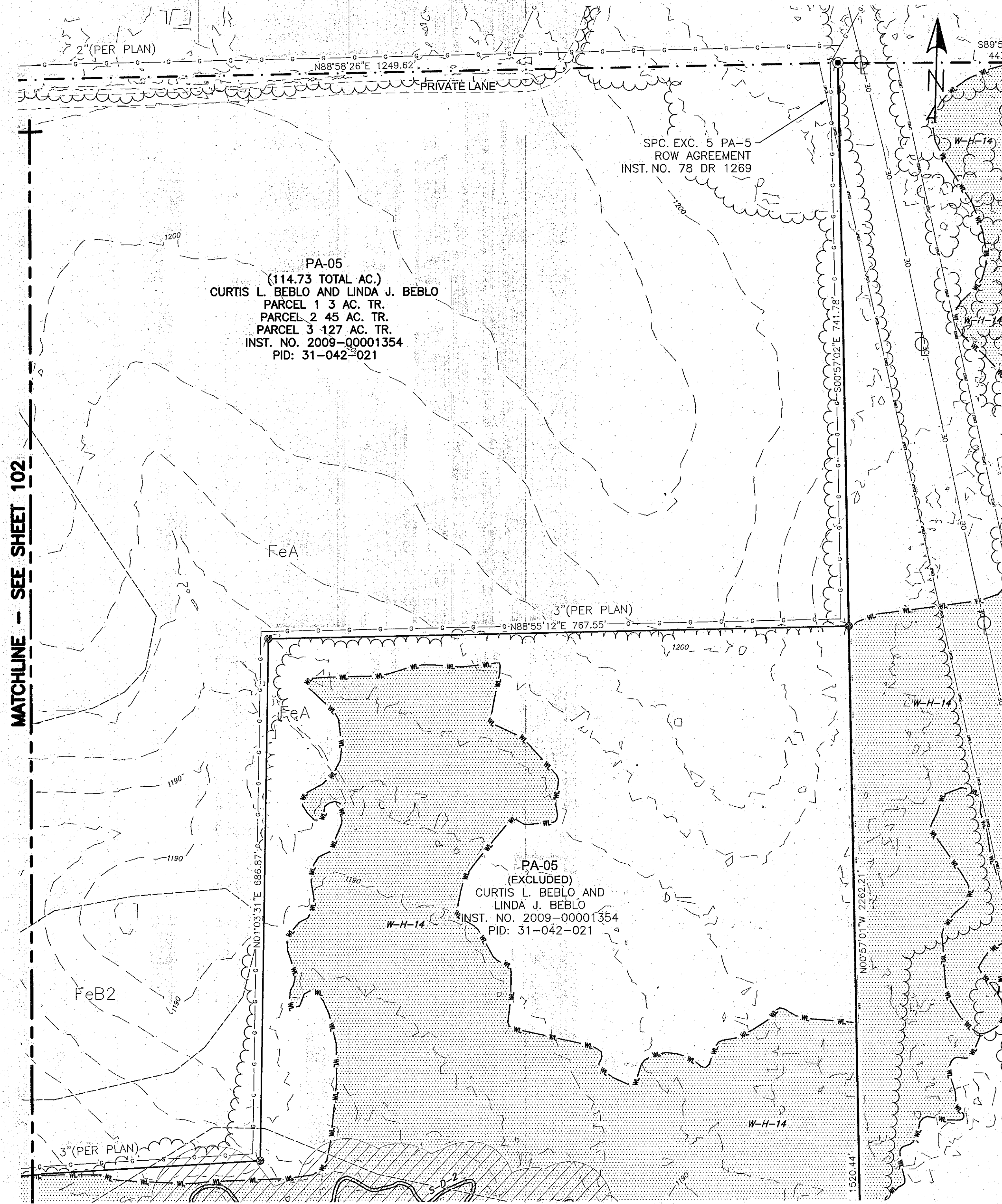
- LEGEND:**
- EXISTING TREELINE
 - EXISTING FENCE
 - EXISTING EASEMENT
 - EXISTING CONTOURS
 - EXISTING UNDERGROUND FIBER OPTIC
 - EXISTING ROAD RIGHT OF WAY
 - EXISTING CENTERLINE OF ROAD
 - EXISTING OVERHEAD ELECTRIC
 - EXISTING EDGE OF GRAVEL/ASPHALT/DIRT
 - EXISTING GAS LINE
 - ADJOINER PARCEL
 - PARTICIPATING PARCEL
 - EXISTING BUILDING/STRUCTURE
 - EXISTING GUY WIRE ANCHOR
 - EXISTING POLE
 - EXISTING SIGN
 - SURVEY POINT
 - WETLAND DELINEATION
 - STREAM DELINEATION
 - SOILS TYPE SEPARATION/ ABBREVIATION
 - ASSUMED 50' FLOODWAY

NOTE: PARCEL 31-042-004 WAS CLEARED BY CURRENT LANDOWNER PATRICIA A. MARIN.



5	11/4/2024	Updated per Mercer Co Regional Planning Commission email from Nov 1, 2024	A.N.	J.C.S.	K.M.S.
4	9/19/2024	Updated per Mercer Co Regional Planning Commission meeting from July 31, 2024	A.N.	J.C.S.	K.M.S.
3	1/17/2024	Updated per Mercer CCD Review Letter Dated Dec 19, 2023	A.N.	J.C.S.	K.M.S.
2	11/6/2023	Updated per Mercer CCD Verbal Comments on Nov 2, 2023	A.N.	J.C.S.	K.M.S.
1	10/11/2023	Updated per Mercer CCD Review Letter Dated Sept 12, 2023	A.N.	J.C.S.	K.M.S.
0	6/30/2023	Preliminary Land Development Plan - Issued for Permitting	A.N.	J.C.S.	K.M.S.
REV.	DATE	DESCRIPTION	PREPARED	CHECKED	APPROVED

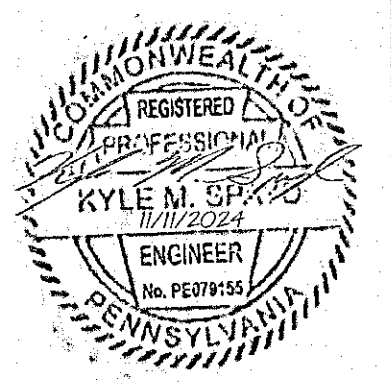
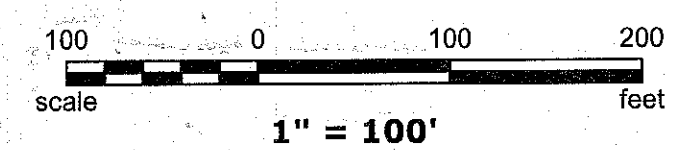
	PROJECT: MC SOLAR PROJECT WEST SALEM TOWNSHIP, PA 16125, USA				
	FILE NAME:				
Engineering & Construction VALIDATION	CLASSIFICATION:	FORMAT: ANSI D	SCALE: 1" = 100'	PLOT SCALE:	SHEET: 101
	UTILIZATION SCOPE:	TITLE: EXISTING CONDITIONS-1			
VALIDATED BY:	CODE				
VERIFIED BY:	GROUP	FUNCTION	TYPE	ISSUER	COUNTRY
COLLABORATORS:	TEC.	PLANT	SYSTEM	PROGRESSIVE	REVISION



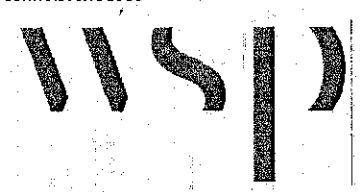
LEGEND:

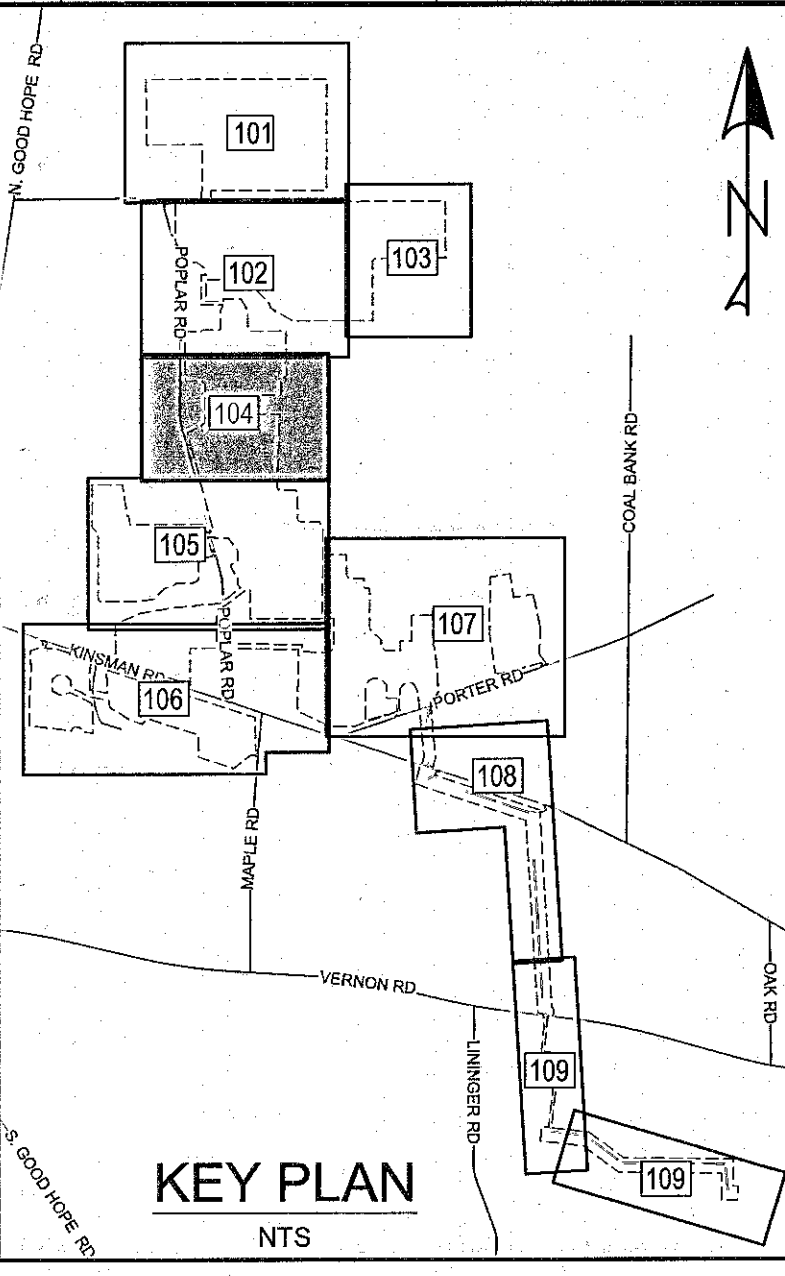
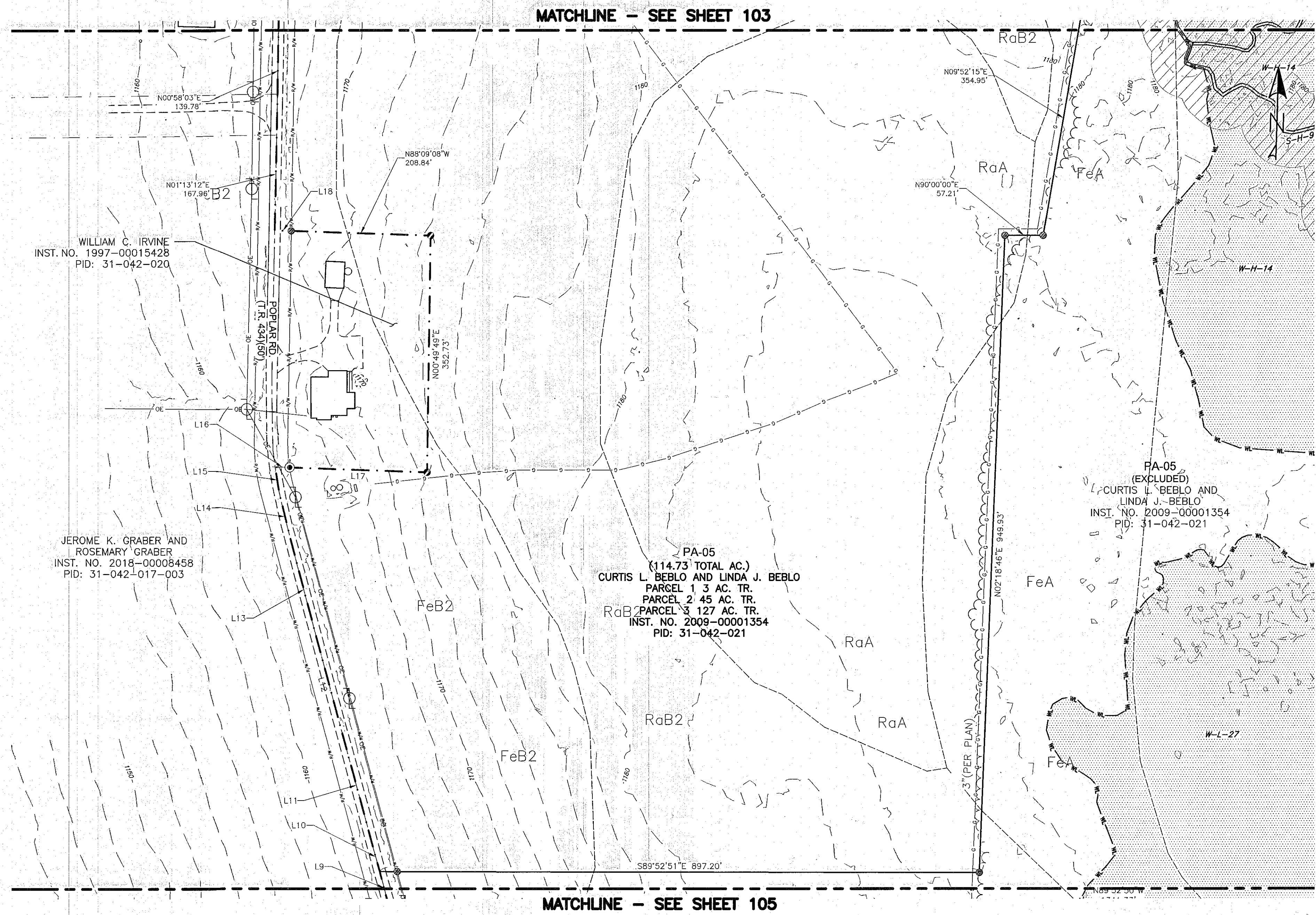
- EXISTING TREELINE
- EXISTING FENCE
- EXISTING EASEMENT
- EXISTING CONTOURS
- EXISTING UNDERGROUND FIBER OPTIC
- EXISTING ROAD RIGHT OF WAY
- EXISTING CENTERLINE OF ROAD
- EXISTING OVERHEAD ELECTRIC
- EXISTING EDGE OF GRAVEL/ASPHALT/DIRT
- EXISTING GAS LINE
- ADJOINER PARCEL
- PARTICIPATING PARCEL
- EXISTING BUILDING/STRUCTURE
- EXISTING GUY WIRE ANCHOR
- EXISTING POLE
- EXISTING SIGN
- SURVEY POINT
- WETLAND DELINEATION
- ASSUMED 50' FLOODWAY
- STREAM DELINEATION
- SOILS TYPE SEPARATION/ ABBREVIATION

NOTE: PARCEL 31-042-004 WAS CLEARED BY CURRENT LANDOWNER PATRICIA A. MARIN.



5	11/4/2024	Updated per Mercer Co Regional Planning Commission email from Nov 1, 2024	A.N.	J.C.S.	K.M.S.
4	9/19/2024	Updated per Mercer Co Regional Planning Commission meeting from July 31, 2024	A.N.	J.C.S.	K.M.S.
3	1/17/2024	Updated per Mercer CCD Review Letter Dated Dec 19, 2023	A.N.	J.C.S.	K.M.S.
2	11/6/2023	Updated per Mercer CCD Verbal Comments on Nov 2, 2023	A.N.	J.C.S.	K.M.S.
1	10/11/2023	Updated per Mercer CCD Review Letter Dated Sept 12, 2023	A.N.	J.C.S.	K.M.S.
0	6/30/2023	Preliminary Land Development Plan - Issued for Permitting	A.N.	J.C.S.	K.M.S.
REV.	DATE	DESCRIPTION	PREPARED	CHECKED	APPROVED

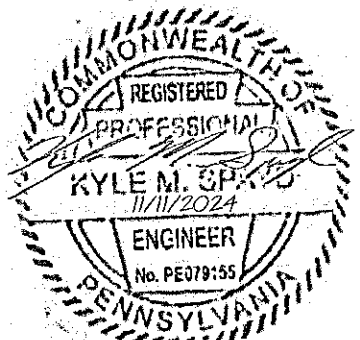
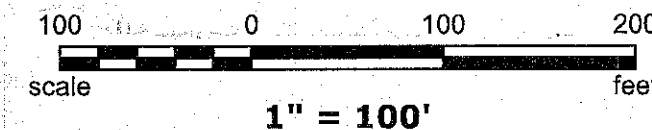
	PROJECT: MC SOLAR PROJECT WEST SALEM TOWNSHIP, PA 16125, USA											
	FILE NAME:											
	CLASSIFICATION:	FORMAT:	SCALE:	PLOT SCALE:	SHEET:							
	UTILIZATION SCOPE:	TITLE: EXISTING CONDITIONS-3										
Engineering & Construction												
VALIDATION												
VALIDATED BY												
VERIFIED BY												
COLLABORATORS												
			CODE									
			GROUP	FUNCTION	TYPE	ISSUER	COUNTRY	TEC.	PLANT	SYSTEM	PROGRESSIVE	REVISION



LEGEND:

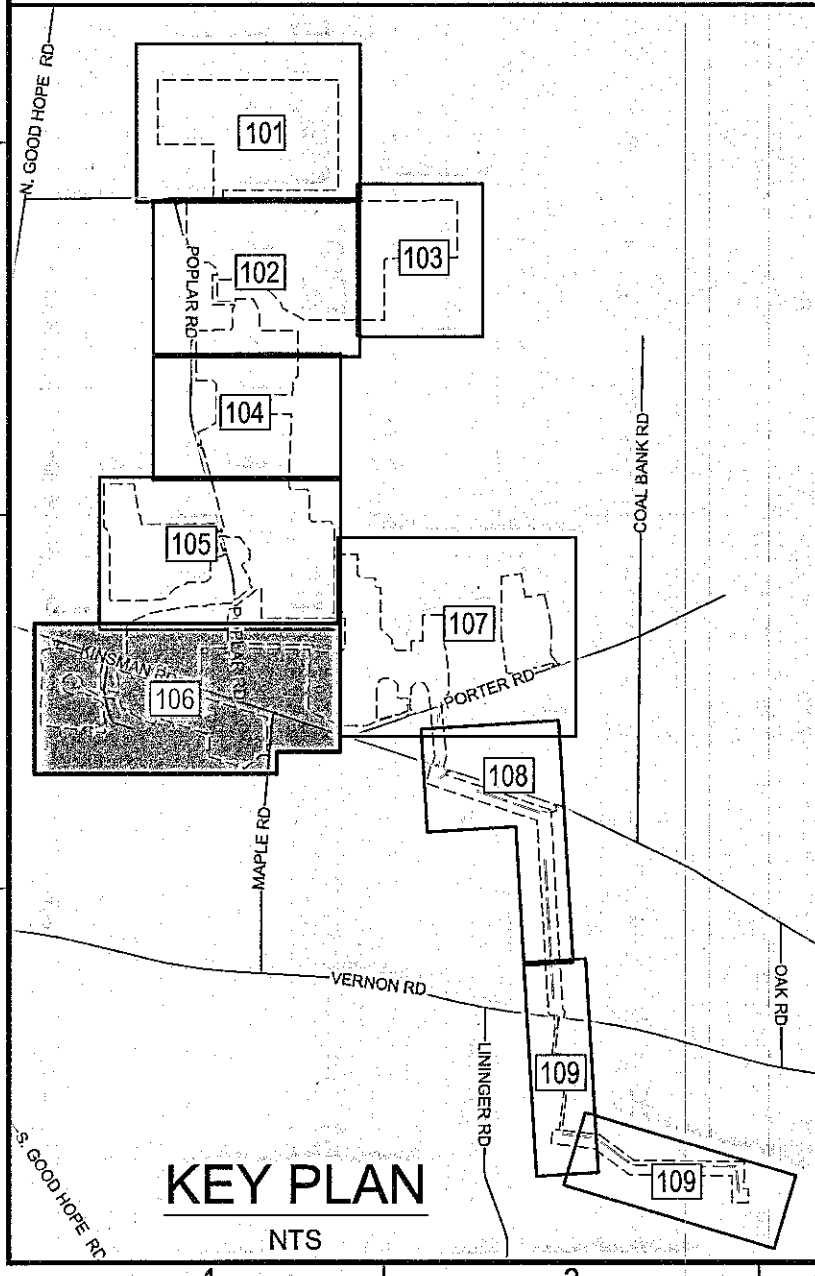
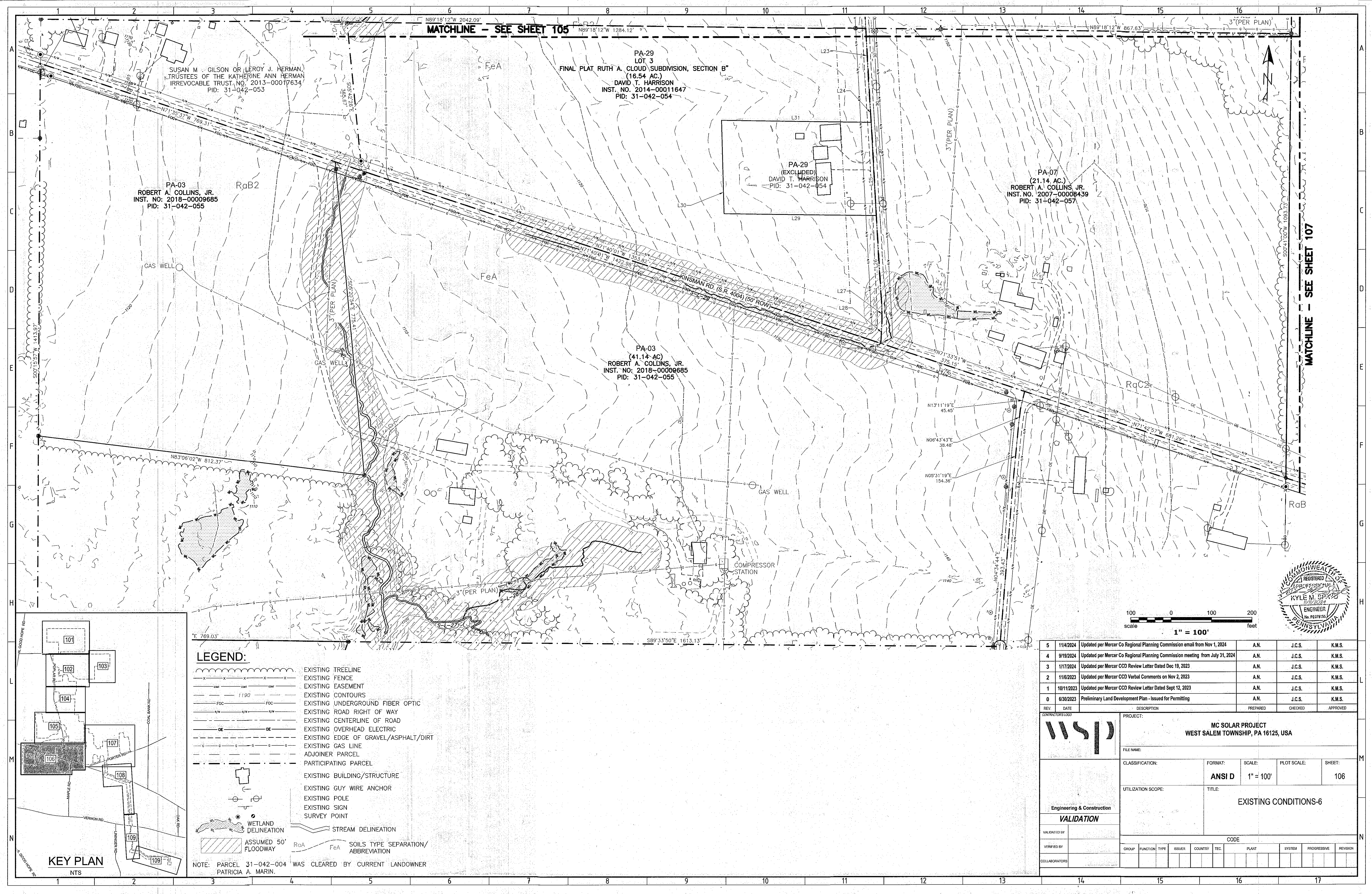
- EXISTING TREELINE
- EXISTING FENCE
- EXISTING EASEMENT
- EXISTING CONTOURS
- EXISTING UNDERGROUND FIBER OPTIC
- EXISTING ROAD RIGHT OF WAY
- EXISTING CENTERLINE OF ROAD
- EXISTING OVERHEAD ELECTRIC
- EXISTING EDGE OF GRAVEL/ASPHALT/DIRT
- EXISTING GAS LINE
- ADJOINER PARCEL
- PARTICIPATING PARCEL
- EXISTING BUILDING/STRUCTURE
- EXISTING GUY WIRE ANCHOR
- EXISTING POLE
- EXISTING SIGN
- SURVEY POINT
- WETLAND DELINEATION
- ASSUMED 50' FLOODWAY
- STREAM DELINEATION
- SOILS TYPE SEPARATION/ ABBREVIATION

NOTE: PARCEL 31-042-004 WAS CLEARED BY CURRENT LANDOWNER PATRICIA A. MARIN.



5	11/4/2024	Updated per Mercer Co Regional Planning Commission email from Nov 1, 2024	A.N.	J.C.S.	K.M.S.
4	9/19/2024	Updated per Mercer Co Regional Planning Commission meeting from July 31, 2024	A.N.	J.C.S.	K.M.S.
3	1/17/2024	Updated per Mercer CCD Review Letter Dated Dec 19, 2023	A.N.	J.C.S.	K.M.S.
2	11/6/2023	Updated per Mercer CCD Verbal Comments on Nov 2, 2023	A.N.	J.C.S.	K.M.S.
1	10/11/2023	Updated per Mercer CCD Review Letter Dated Sept 12, 2023	A.N.	J.C.S.	K.M.S.
0	6/30/2023	Preliminary Land Development Plan - Issued for Permitting	A.N.	J.C.S.	K.M.S.

CONTRACTOR'S LOGO		PROJECT:									
		MC SOLAR PROJECT WEST SALEM TOWNSHIP, PA 16125, USA									
FILE NAME:											
CLASSIFICATION:		FORMAT:	SCALE:	PLOT SCALE:	SHEET:						
		ANSI D	1" = 100'		104						
UTILIZATION SCOPE:		TITLE:									
		EXISTING CONDITIONS-4									
Engineering & Construction		CODE									
VALIDATION											
VALIDATED BY		GROUP	FUNCTION	TYPE	ISSUER	COUNTRY	TEC.	PLANT	SYSTEM	PROGRESSIVE	REVISION
VERIFIED BY											
COLLABORATORS											

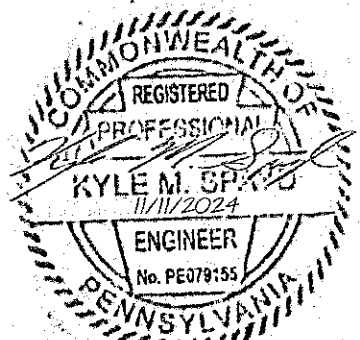


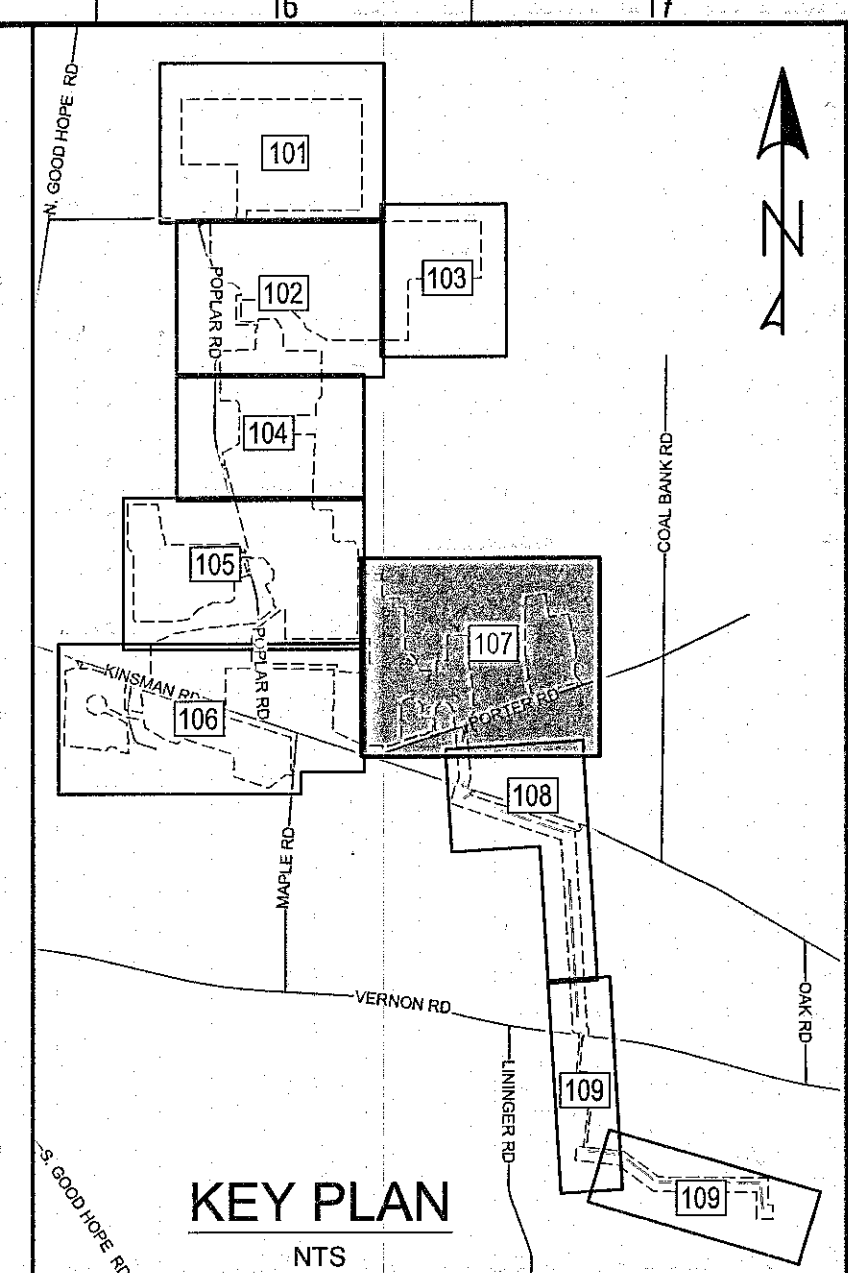
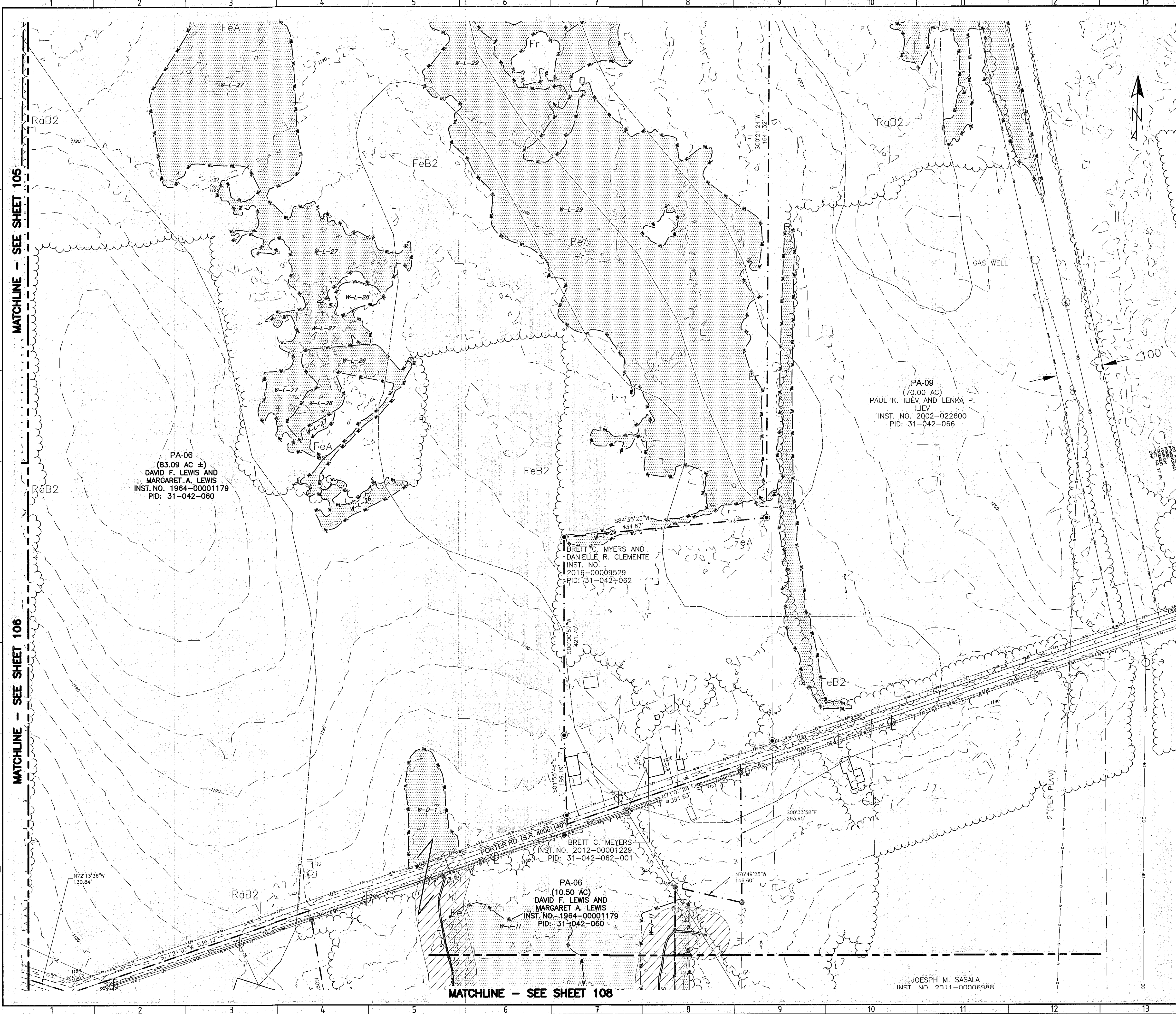
LEGEND:

- EXISTING TREELINE
- EXISTING FENCE
- EXISTING EASEMENT
- EXISTING CONTOURS
- EXISTING UNDERGROUND FIBER OPTIC
- EXISTING ROAD RIGHT OF WAY
- EXISTING CENTERLINE OF ROAD
- EXISTING OVERHEAD ELECTRIC
- EXISTING EDGE OF GRAVEL/ASPHALT/DIRT
- EXISTING GAS LINE
- ADJOINER PARCEL
- PARTICIPATING PARCEL
- EXISTING BUILDING/STRUCTURE
- EXISTING GUY WIRE ANCHOR
- EXISTING POLE
- EXISTING SIGN
- SURVEY POINT
- WETLAND DELINEATION
- ASSUMED 50' FLOODWAY
- STREAM DELINEATION
- SOILS TYPE SEPARATION/ ABBREVIATION

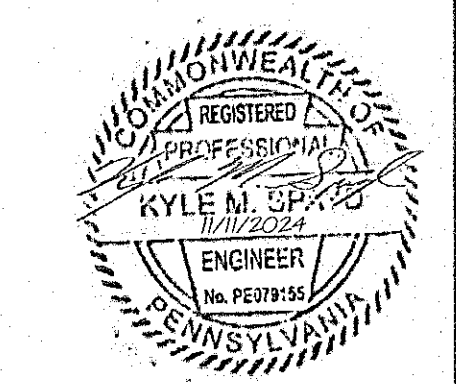
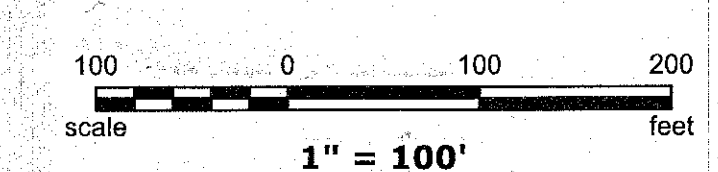
NOTE: PARCEL 31-042-004 WAS CLEARED BY CURRENT LANDOWNER PATRICIA A. MARIN.

5	11/4/2024	Updated per Mercer Co Regional Planning Commission email from Nov 1, 2024	A.N.	J.C.S.	K.M.S.
4	9/19/2024	Updated per Mercer Co Regional Planning Commission meeting from July 31, 2024	A.N.	J.C.S.	K.M.S.
3	1/17/2024	Updated per Mercer CCD Review Letter Dated Dec 19, 2023	A.N.	J.C.S.	K.M.S.
2	11/6/2023	Updated per Mercer CCD Verbal Comments on Nov 2, 2023	A.N.	J.C.S.	K.M.S.
1	10/11/2023	Updated per Mercer CCD Review Letter Dated Sept 12, 2023	A.N.	J.C.S.	K.M.S.
0	6/30/2023	Preliminary Land Development Plan - Issued for Permitting	A.N.	J.C.S.	K.M.S.
REV	DATE	DESCRIPTION	PREPARED	CHECKED	APPROVED
CONTRACTOR'S LOGO			PROJECT: MC SOLAR PROJECT WEST SALEM TOWNSHIP, PA 16125, USA		
FILE NAME:			CLASSIFICATION:		
Engineering & Construction			FORMAT:	SCALE:	PLOT SCALE:
VALIDATION			ANSI D	1" = 100'	106
UTILIZATION SCOPE:			EXISTING CONDITIONS-6		
VALIDATED BY:			CODE		
VERIFIED BY:			GROUP	FUNCTION	TYPE
COLLABORATORS			ISSUER	COUNTRY	TEC
			PLANT	SYSTEM	PROGRESSIVE
			REVISION		

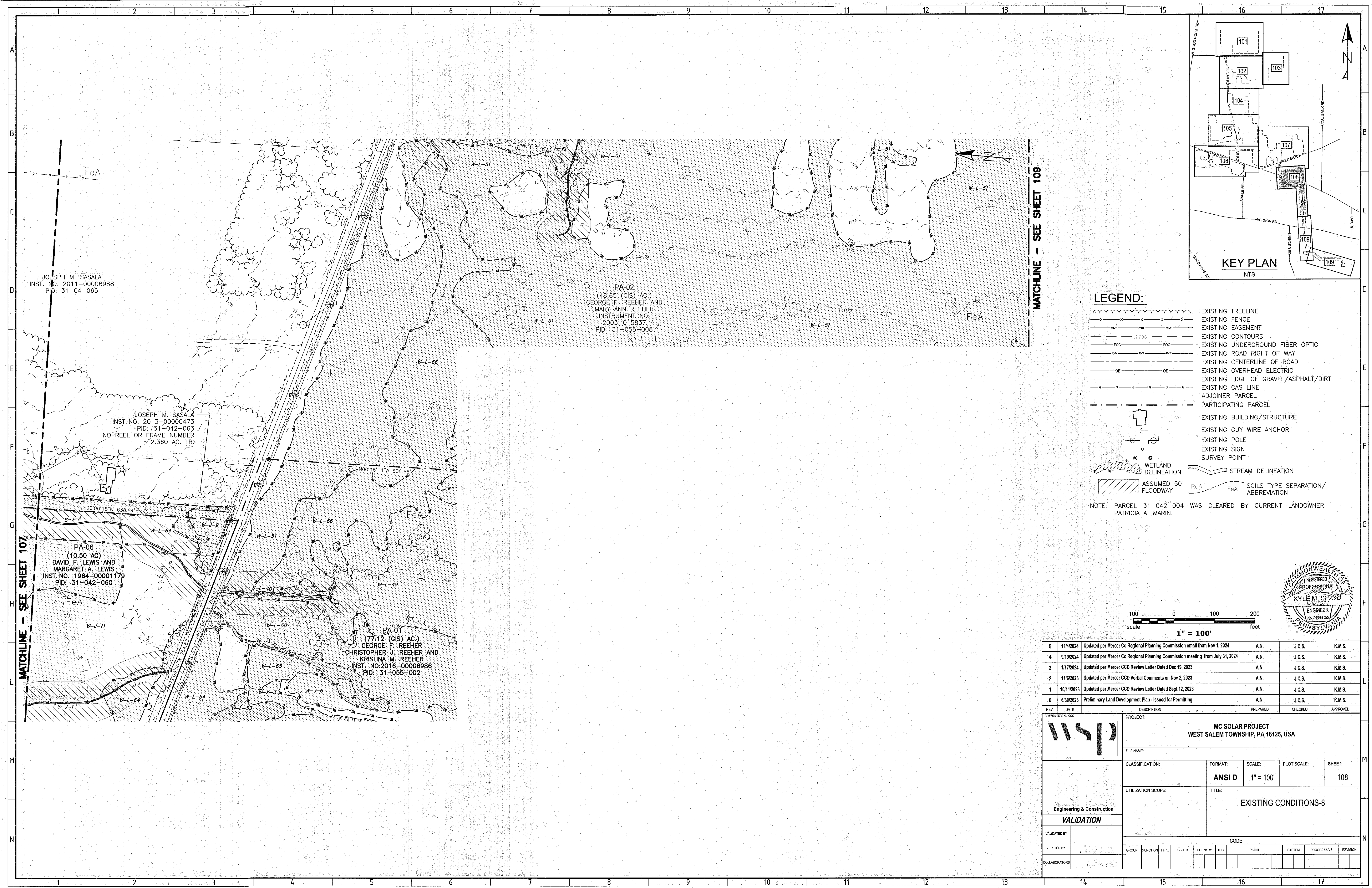


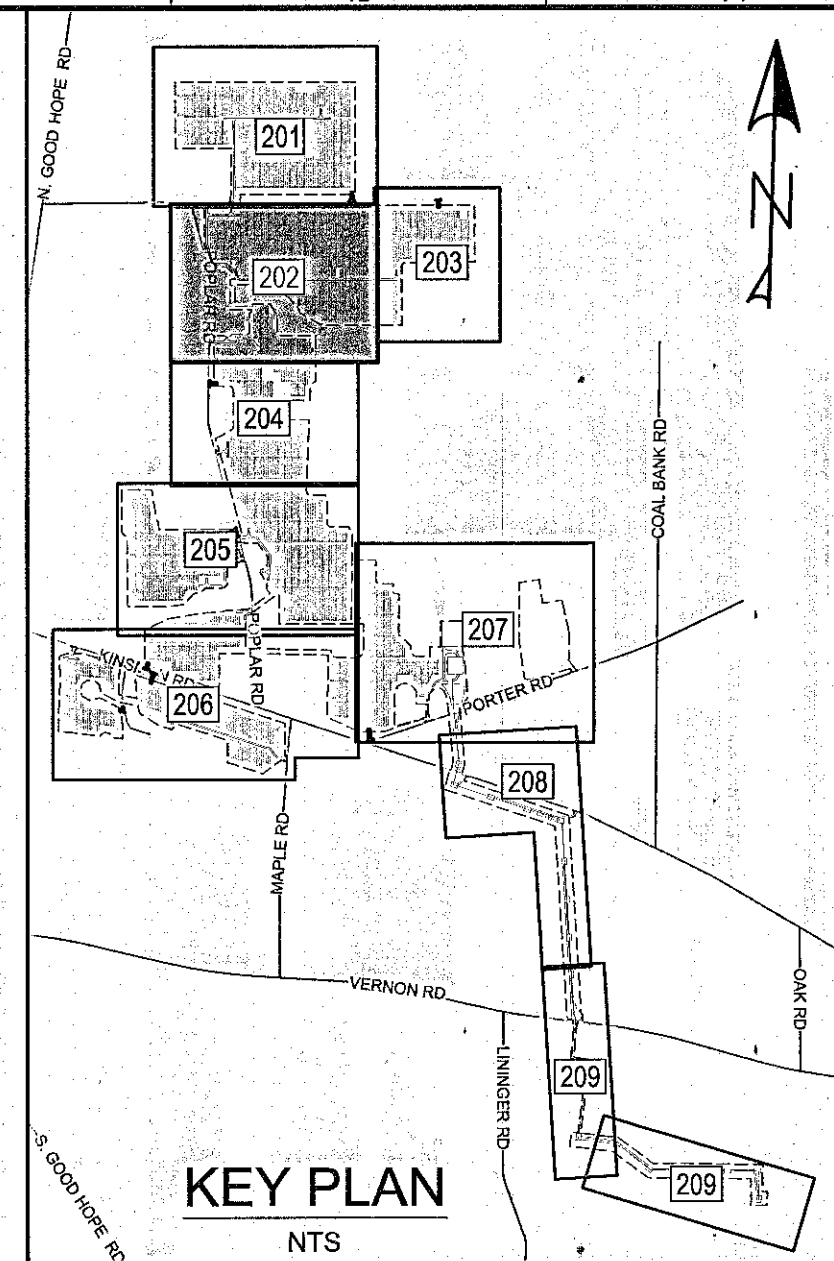
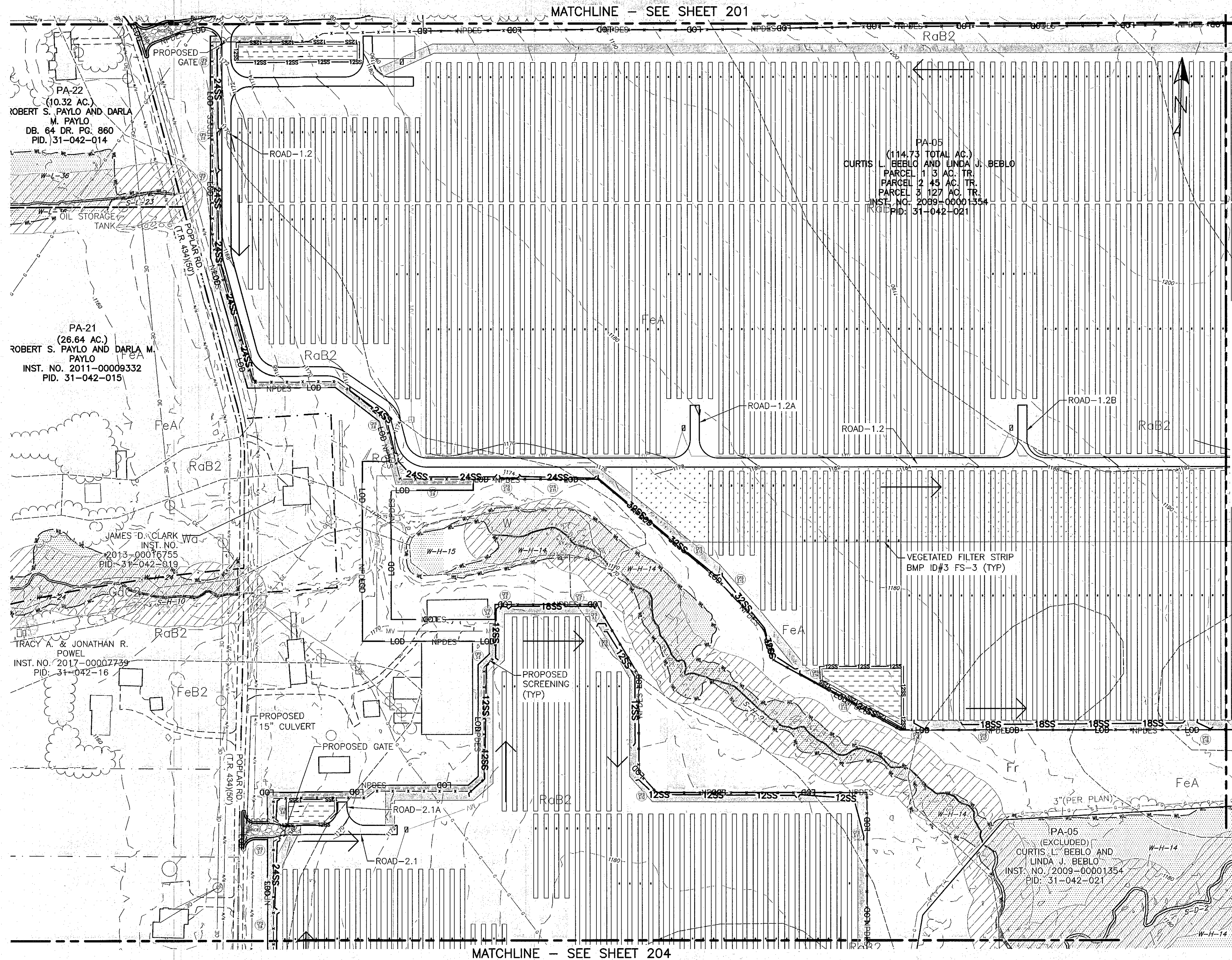


- LEGEND:**
- EXISTING TREELINE
 - EXISTING FENCE
 - EXISTING EASEMENT
 - EXISTING CONTOURS
 - EXISTING UNDERGROUND FIBER OPTIC
 - EXISTING ROAD RIGHT OF WAY
 - EXISTING CENTERLINE OF ROAD
 - EXISTING OVERHEAD ELECTRIC
 - EXISTING EDGE OF GRAVEL/ASPHALT/DIRT
 - EXISTING GAS LINE
 - ADJOINER PARCEL
 - PARTICIPATING PARCEL
 - EXISTING BUILDING/STRUCTURE
 - EXISTING GUY WIRE ANCHOR
 - EXISTING POLE
 - EXISTING SIGN
 - SURVEY POINT
 - WETLAND DELINEATION
 - ASSUMED 50' FLOODWAY
 - STREAM DELINEATION
 - SOILS TYPE SEPARATION/ABBREVIATION
- NOTE: PARCEL 31-042-004 WAS CLEARED BY CURRENT LANDOWNER PATRICIA A. MARIN.



5	11/4/2024	Updated per Mercer Co Regional Planning Commission email from Nov 1, 2024	A.N.	J.C.S.	K.M.S.
4	9/19/2024	Updated per Mercer Co Regional Planning Commission meeting from July 31, 2024	A.N.	J.C.S.	K.M.S.
3	1/17/2024	Updated per Mercer CCD Review Letter Dated Dec 19, 2023	A.N.	J.C.S.	K.M.S.
2	11/6/2023	Updated per Mercer CCD Verbal Comments on Nov 2, 2023	A.N.	J.C.S.	K.M.S.
1	10/11/2023	Updated per Mercer CCD Review Letter Dated Sept 12, 2023	A.N.	J.C.S.	K.M.S.
0	6/30/2023	Preliminary Land Development Plan - Issued for Permitting	A.N.	J.C.S.	K.M.S.
REV.	DATE	DESCRIPTION	PREPARED	CHECKED	APPROVED
CONTRACTOR'S LOGO			PROJECT:		
wsp			MC SOLAR PROJECT WEST SALEM TOWNSHIP, PA 16125, USA		
FILE NAME:					
CLASSIFICATION:			FORMAT:	SCALE:	PLOT SCALE:
			ANSI D	1" = 100'	107
UTILIZATION SCOPE:			EXISTING CONDITIONS-7		
TITLE:					
Engineering & Construction					
VALIDATION					
VALIDATED BY			CODE		
VERIFIED BY			GROUP	FUNCTION	TYPE
COLLABORATORS			ISSUER	COUNTRY	TEC.
			PLANT	SYSTEM	PROGRESSIVE
			REVISION		

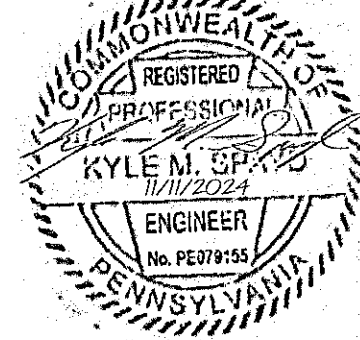
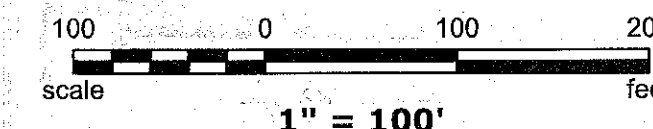




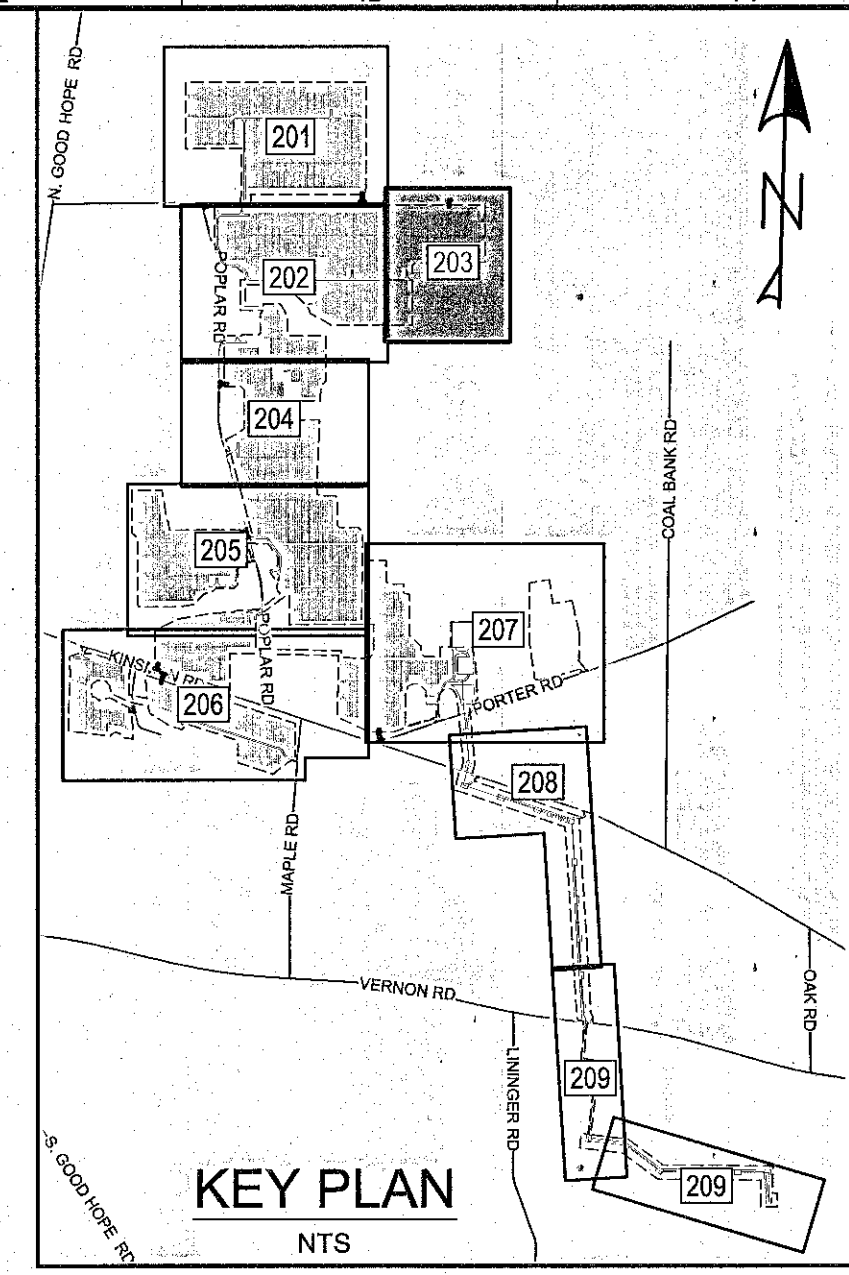
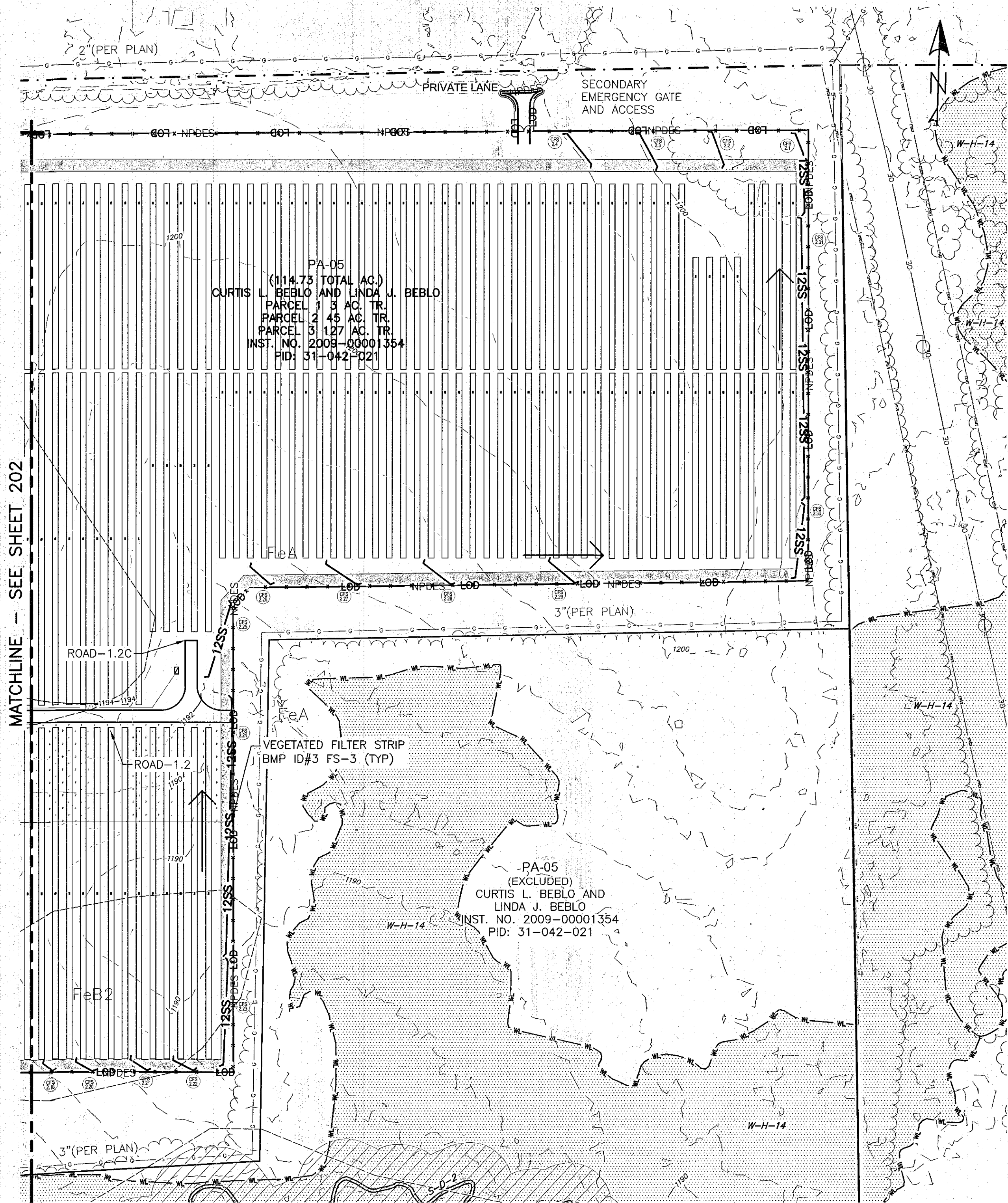
- LEGEND:**
- EXISTING TREELINE
 - EXISTING FENCE
 - EXISTING EASEMENT
 - EXISTING CONTOURS
 - EXISTING UNDERGROUND FIBER OPTIC
 - EXISTING ROAD RIGHT OF WAY
 - EXISTING CENTERLINE OF ROAD
 - EXISTING OVERHEAD ELECTRIC
 - EXISTING EDGE OF GRAVEL/ASPHALT/DIRT
 - EXISTING GAS LINE
 - ADJOURNER PARCEL
 - PARTICIPATING PARCEL
 - EXISTING BUILDING/STRUCTURE
 - EXISTING GUY WIRE ANCHOR
 - EXISTING POLE
 - EXISTING SIGN

- WETLAND DELINEATION
- STREAM DELINEATION
- ASSUMED 50' FLOODWAY
- NPDES
- LOD
- 530
- 12SS
- 18SS
- 24SS
- 32SS
- MV
- UE
- CHWCL
- PROPOSED ELEC FEEDER
- PROPOSED TREELINE
- PROPOSED ORANGE CONSTRUCTION FENCE
- PROPOSED UNDERGROUND ELECTRIC
- PROPOSED OVERHEAD WIRE CENTER LINE
- PROPOSED BERM
- PROPOSED BAFFLE
- PROPOSED PHOTOVOLTAIC ARRAY
- PROPOSED PIPE AND ENDWALL
- PROPOSED GATE
- CONCRETE WASHOUT
- PROPOSED BASIN STRUCTURE
- TEST PIT
- SILT SOCK ID LABEL
- PROPOSED ELECTRIC POLE
- ROCK CONSTRUCTION ENTRANCE
- RIPRAP
- VEGETATION FILTER
- PROPOSED INVERTER
- EROSION CONTROL BLANKET
- CONSTRUCTION TIMBER MATTING
- TOPSOIL STOCKPILE
- PROPOSED SCREENING
- EMERGENCY ACCESS PATH

- NOTES:
- THE USFWS IDENTIFIED AN AVOIDANCE MEASURE ON THE PNDI THAT THE PROJECT SHOULD CONDUCT ANY TREE CUTTING, DISTURBANCE, INUNDATION (FLOODING) AND PRESCRIBED BURNING FROM OCTOBER 1 TO MARCH 31. MC SOLAR 1, LLC SHALL ADHERE TO THIS AVOIDANCE MEASURE.
 - PARCEL 31-042-004 WAS CLEARED BY CURRENT LANDOWNER PATRICIA A. MARIN.



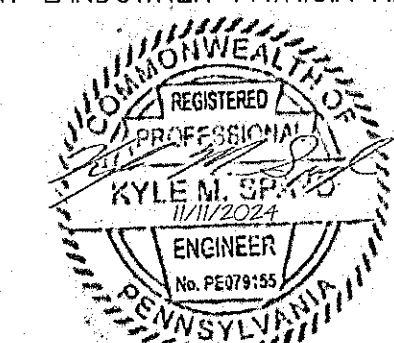
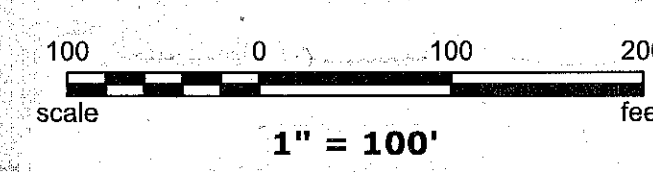
5	11/4/2024	Updated per Mercer Co Regional Planning Commission email from Nov 1, 2024	A.N.	J.C.S.	K.M.S.
4	9/19/2024	Updated per Mercer Co Regional Planning Commission meeting from July 31, 2024	A.N.	J.C.S.	K.M.S.
3	1/17/2024	Updated per Mercer CCD Review Letter Dated Dec 19, 2023	A.N.	J.C.S.	K.M.S.
2	1/16/2023	Updated per Mercer CCD Verbal Comments on Nov 2, 2023	A.N.	J.C.S.	K.M.S.
1	10/11/2023	Updated per Mercer CCD Review Letter Dated Sept 12, 2023	A.N.	J.C.S.	K.M.S.
0	6/30/2023	Preliminary Land Development Plan - Issued for Permitting	A.N.	J.C.S.	K.M.S.
REV.	DATE	DESCRIPTION	PREPARED	CHECKED	APPROVED
CONTRACTOR'S LOGO			PROJECT:		
wsp			MC SOLAR PROJECT WEST SALEM TOWNSHIP, PA 16125, USA		
FILE NAME:			CLASSIFICATION:		
			FORMAT: ANSI D		
			SCALE: 1" = 100'		
			PLOT SCALE:		
			SHEET: 202		
			UTILIZATION SCOPE:		
			TITLE: SITE GRADING AND EROSION AND SEDIMENTATION CONTROL - PLAN 2		
Engineering & Construction VALIDATION			CODE		
VALIDATED BY			GROUP		
VERIFIED BY			FUNCTION		
COLLABORATORS			TYPE		
			ISSUE		
			COUNTRY		
			TEC		
			PLANT		
			SYSTEM		
			PROGRESSIVE		
			REVISION		



- LEGEND:**
- EXISTING TREELINE
 - EXISTING FENCE
 - EXISTING EASEMENT
 - EXISTING CONTOURS
 - EXISTING UNDERGROUND FIBER OPTIC
 - EXISTING ROAD RIGHT OF WAY
 - EXISTING CENTERLINE OF ROAD
 - EXISTING OVERHEAD ELECTRIC
 - EXISTING EDGE OF GRAVEL/ASPHALT/DIRT
 - EXISTING GAS LINE
 - ADJOINER PARCEL
 - PARTICIPATING PARCEL
 - EXISTING BUILDING/STRUCTURE
 - EXISTING GUY WIRE ANCHOR
 - EXISTING POLE
 - EXISTING SIGN

- WETLAND DELINEATION
- ASSUMED 50' FLOODWAY
- STREAM DELINEATION
- SOILS TYPE SEPARATION/ABBREVIATION
- PROJECT AREA/NPDES BOUNDARY
- FLOW PATH
- LIMIT OF DISTURBANCE
- PROPOSED ROADS AND PADS
- PROPOSED 2.0' CONTOUR
- PROPOSED FENCE
- 12" SILT SOCK
- 18" SILT SOCK
- 24" SILT SOCK
- 32" SILT SOCK
- PROPOSED ELEC FEEDER
- PROPOSED TREELINE
- PROPOSED ORANGE CONSTRUCTION FENCE
- PROPOSED UNDERGROUND ELECTRIC
- PROPOSED OVERHEAD WIRE CENTER LINE
- PROPOSED BERM
- PROPOSED BAFFLE
- PROPOSED PHOTOVOLTAIC ARRAY
- PROPOSED PIPE AND ENDWALL
- PROPOSED GATE
- CONCRETE WASHOUT
- PROPOSED BASIN STRUCTURE
- TEST PIT
- SILT SOCK ID LABEL
- PROPOSED ELECTRIC POLE
- ROCK CONSTRUCTION ENTRANCE
- RIPRAP
- VEGETATION FILTER
- PROPOSED INVERTER
- EROSION CONTROL BLANKET
- CONSTRUCTION TIMBER MATTING
- TOPSOIL STOCKPILE
- PROPOSED SCREENING
- EMERGENCY ACCESS PATH

NOTES:
1. THE USFWS IDENTIFIED AN AVOIDANCE MEASURE ON THE PNDI THAT THE PROJECT SHOULD CONDUCT ANY TREE CUTTING, DISTURBANCE, INUNDATION (FLOODING) AND PRESCRIBED BURNING FROM OCTOBER 1 TO MARCH 31. MC SOLAR I, LLC SHALL ADHERE TO THIS AVOIDANCE MEASURE.
2. PARCEL 31-042-004 WAS CLEARED BY CURRENT LANDOWNER PATRICIA A. MARIN.



5	11/4/2024	Updated per Mercer Co Regional Planning Commission email from Nov 1, 2024	A.N.	J.C.S.	K.M.S.
4	9/19/2024	Updated per Mercer Co Regional Planning Commission meeting from July 31, 2024	A.N.	J.C.S.	K.M.S.
3	1/17/2024	Updated per Mercer CCD Review Letter Dated Dec 19, 2023	A.N.	J.C.S.	K.M.S.
2	11/6/2023	Updated per Mercer CCD Verbal Comments on Nov 2, 2023	A.N.	J.C.S.	K.M.S.
1	10/11/2023	Updated per Mercer CCD Review Letter Dated Sept 12, 2023	A.N.	J.C.S.	K.M.S.
0	6/30/2023	Preliminary Land Development Plan - Issued for Permitting	A.N.	J.C.S.	K.M.S.

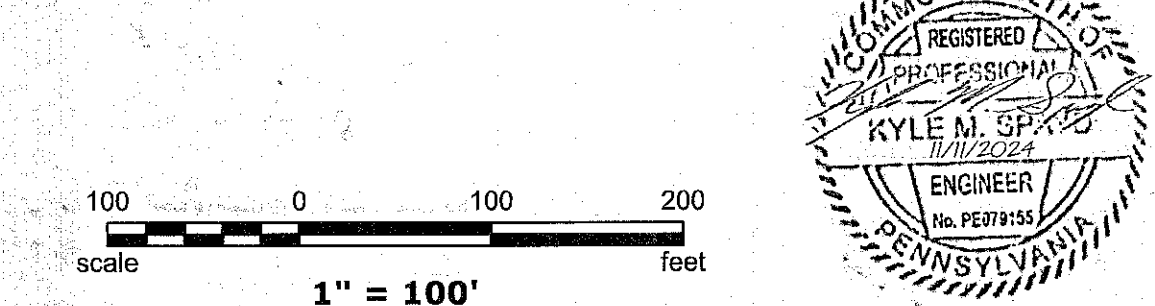
CONTRACTOR'S LOGO		PROJECT:	
		MC SOLAR PROJECT WEST SALEM TOWNSHIP, PA 16125, USA	
FILE NAME:			
CLASSIFICATION:	FORMAT:	SCALE:	PLOT SCALE:
	ANSI D	1" = 100'	203
UTILIZATION SCOPE:	TITLE:		
	SITE GRADING AND EROSION AND SEDIMENTATION CONTROL - PLAN 3		
* Engineering & Construction		CODE	
VALIDATION			
VALIDATED BY:		GROUP:	FUNCTION TYPE
VERIFIED BY:		ISSUER:	COUNTRY TEC:
COLLABORATORS:		PLANT:	SYSTEM PROGRESSIVE REVISION

LEGEND:

- EXISTING TREELINE
- EXISTING FENCE
- EXISTING EASEMENT
- EXISTING CONTOURS
- EXISTING UNDERGROUND FIBER OPTIC
- EXISTING ROAD RIGHT OF WAY
- EXISTING CENTERLINE OF ROAD
- EXISTING OVERHEAD ELECTRIC
- EXISTING EDGE OF GRAVEL/ASPHALT/DIRT
- EXISTING GAS LINE
- ADJOINER PARCEL
- PARTICIPATING PARCEL
- EXISTING BUILDING/STRUCTURE
- EXISTING GUY WIRE ANCHOR
- EXISTING POLE
- EXISTING SIGN

- WETLAND DELINEATION
- ASSUMED 50' FLOODWAY
- NPDES
- FLOW PATH
- PROPOSED ROADS AND PADS
- PROPOSED 2.0' CONTOUR
- PROPOSED FENCE
- 12SS 12SS
- 18SS 18SS
- 24SS 24SS
- 32SS 32SS
- MV
- PROPOSED ELEC FEEDER
- PROPOSED TREELINE
- PROPOSED ORANGE CONSTRUCTION FENCE
- PROPOSED UNDERGROUND ELECTRIC
- PROPOSED OVERHEAD WIRE CENTER LINE
- PROPOSED BERM
- PROPOSED BAFFLE
- PROPOSED PHOTOVOLTAIC ARRAY
- PROPOSED PIPE AND ENDWALL
- PROPOSED GATE
- CONCRETE WASHOUT
- PROPOSED BASIN STRUCTURE
- TEST PIT
- SILT SOCK ID LABEL
- PROPOSED ELECTRIC POLE
- ROCK CONSTRUCTION ENTRANCE
- RIPRAP
- VEGETATION FILTER
- PROPOSED INVERTER

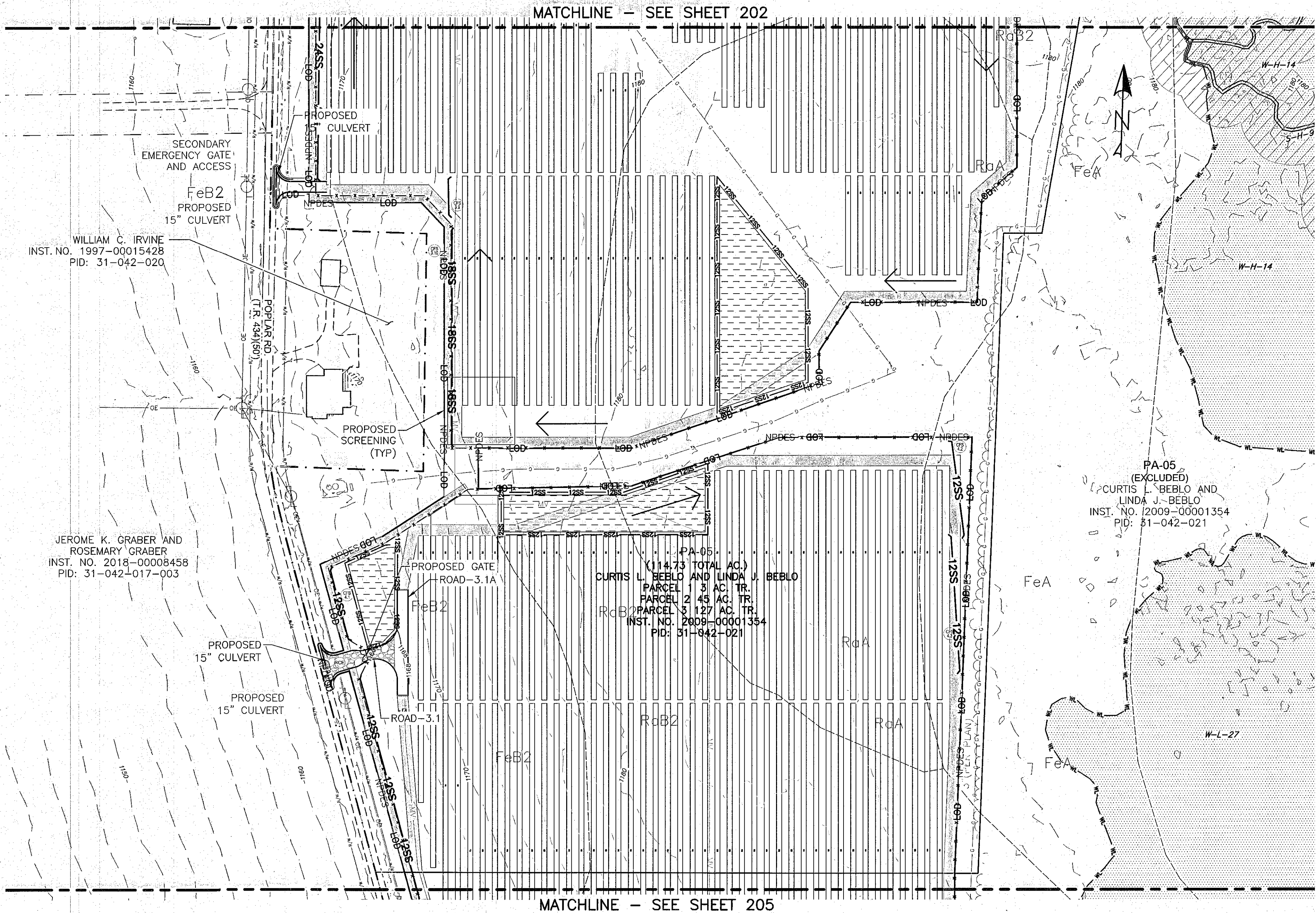
NOTES:
1. THE USFWS IDENTIFIED AN AVOIDANCE MEASURE ON THE PNDI THAT THE PROJECT SHOULD CONDUCT ANY TREE CUTTING, DISTURBANCE, INUNDATION (FLOODING) AND PRESCRIBED BURNING FROM OCTOBER 1 TO MARCH 31. MC SOLAR I, LLC SHALL ADHERE TO THIS AVOIDANCE MEASURE.
2. PARCEL 31-042-004 WAS CLEARED BY CURRENT LANDOWNER PATRICIA A. MARIN.

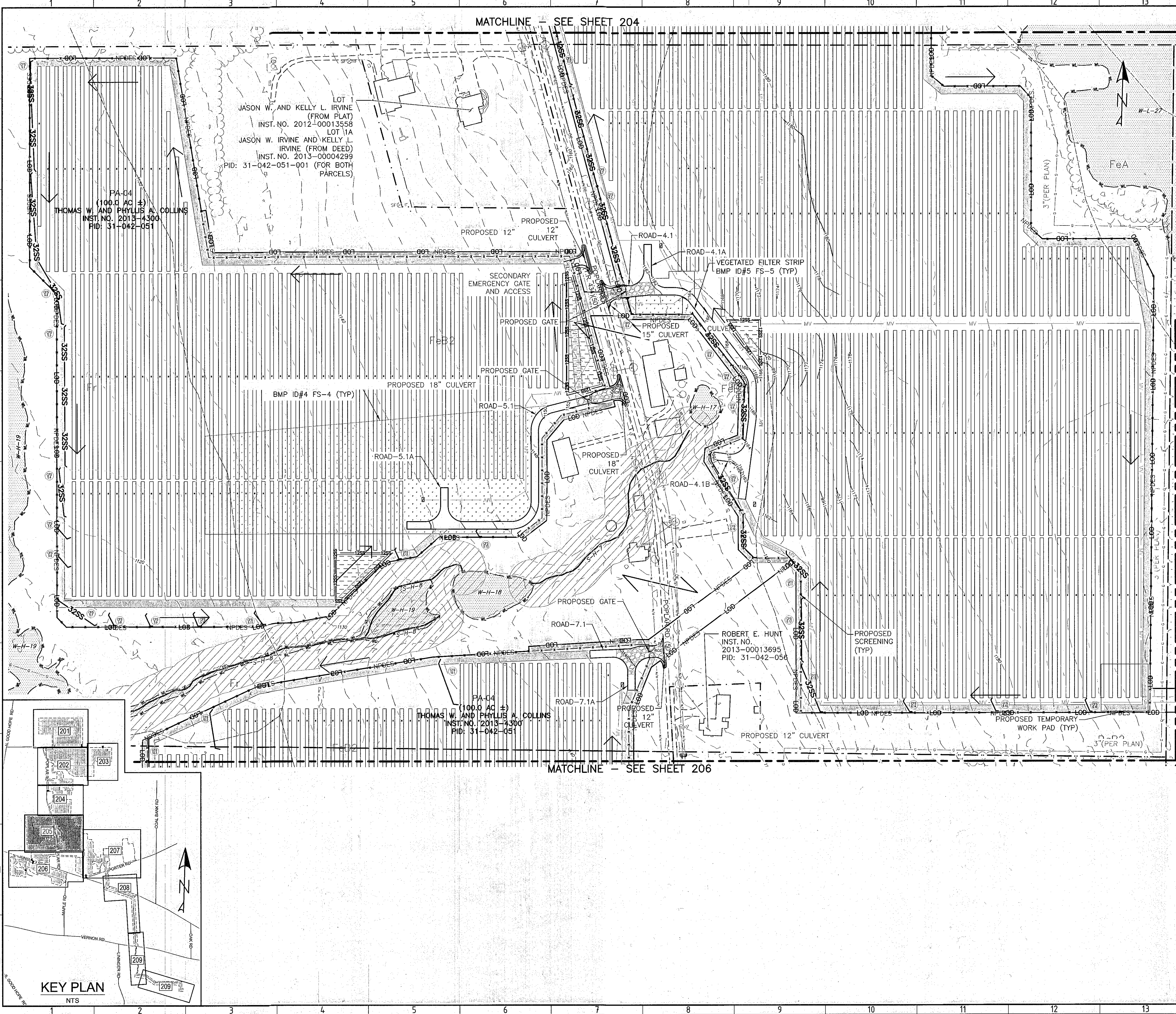


5	11/4/2024	Updated per Mercer Co Regional Planning Commission email from Nov 1, 2024	A.N.	J.C.S.	K.M.S.
4	9/19/2024	Updated per Mercer Co Regional Planning Commission meeting from July 31, 2024	A.N.	J.C.S.	K.M.S.
3	1/17/2024	Updated per Mercer CCD Review Letter Dated Dec 19, 2023	A.N.	J.C.S.	K.M.S.
2	11/6/2023	Updated per Mercer CCD Verbal Comments on Nov 2, 2023	A.N.	J.C.S.	K.M.S.
1	10/11/2023	Updated per Mercer CCD Review Letter Dated Sept 12, 2023	A.N.	J.C.S.	K.M.S.
0	6/30/2023	Preliminary Land Development Plan - Issued for Permitting	A.N.	J.C.S.	K.M.S.

CONTRACTOR'S LOGO		PROJECT:							
wsp		MC SOLAR PROJECT WEST SALEM TOWNSHIP, PA 16125, USA							
FILE NAME:									
CLASSIFICATION:	FORMAT:	SCALE:	PLOT SCALE:	SHEET:					
	ANSI D	1" = 100'		204					
UTILIZATION SCOPE:	TITLE:								
	SITE GRADING AND EROSION AND SEDIMENTATION CONTROL - PLAN 4								
Engineering & Construction									
VALIDATION									
VALIDATED BY:									
VERIFIED BY:									
COLLABORATORS:									
CODE									
GROUP	FUNCTION	TYPE	ISSUER	COUNTRY	TEC	PLANT	SYSTEM	PROGRESSIVE	REVISION

KEY PLAN

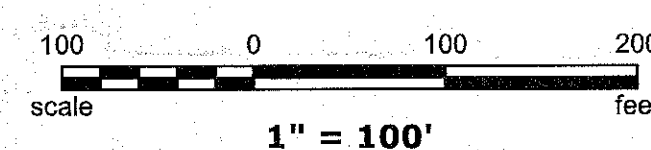
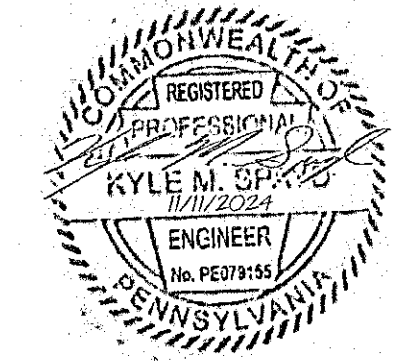




LEGEND:

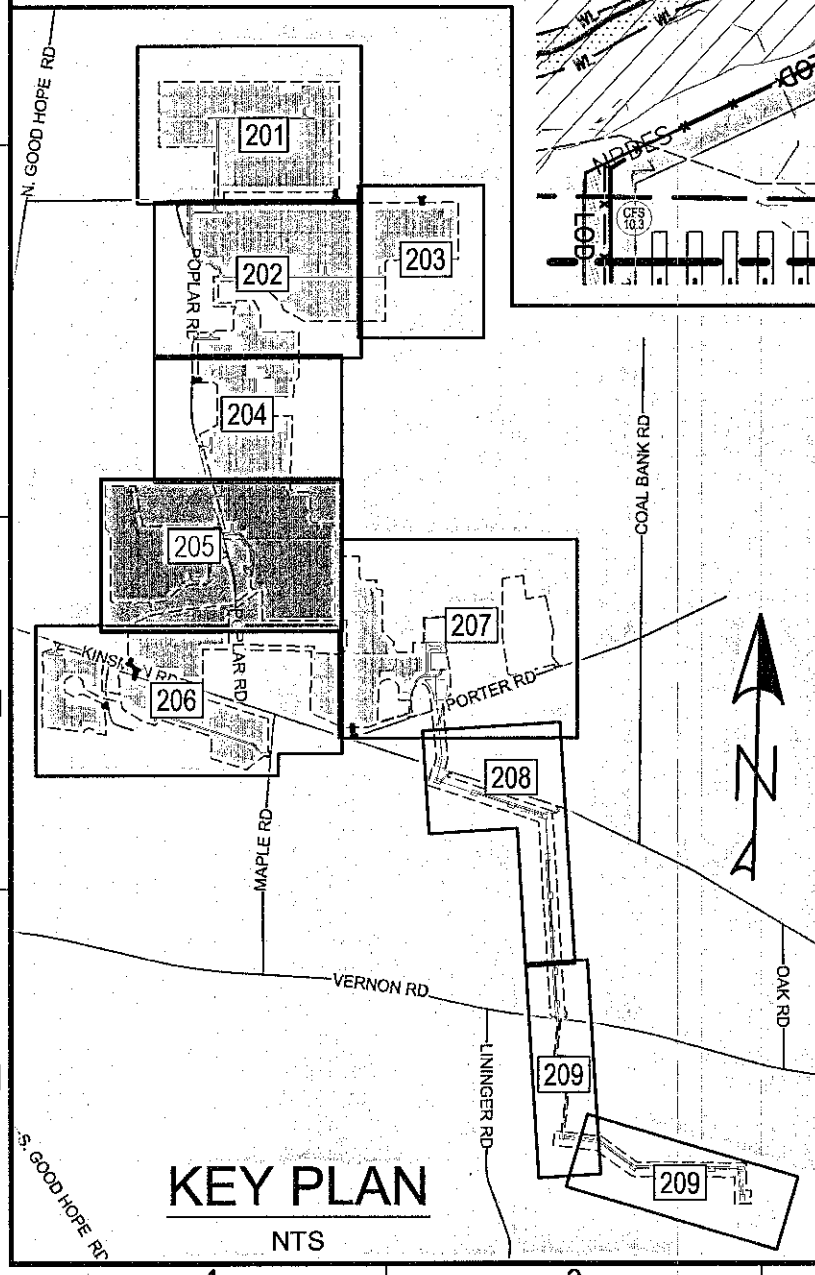
- EXISTING TREELINE
- EXISTING FENCE
- EXISTING EASEMENT
- EXISTING CONTOURS
- EXISTING UNDERGROUND FIBER OPTIC
- EXISTING ROAD RIGHT OF WAY
- EXISTING CENTERLINE OF ROAD
- EXISTING OVERHEAD ELECTRIC
- EXISTING EDGE OF GRAVEL/ASPHALT/DIRT
- EXISTING GAS LINE
- ADJOINER PARCEL
- PARTICIPATING PARCEL
- EXISTING BUILDING/STRUCTURE
- EXISTING GUY WIRE ANCHOR
- EXISTING POLE
- EXISTING SIGN
- WETLAND DELINEATION
- STREAM DELINEATION
- ASSUMED 50' FLOODWAY
- SOILS TYPE SEPARATION/ABBREVIATION
- PROJECT AREA/NPDES BOUNDARY
- FLOW PATH
- LIMIT OF DISTURBANCE
- PROPOSED ROADS AND PADS
- PROPOSED 2.0' CONTOUR
- PROPOSED FENCE
- 12SS 12SS 12" SILT SOCK
- 18SS 18SS 18" SILT SOCK
- 24SS 24SS 24" SILT SOCK
- 32SS 32SS 32" SILT SOCK
- PROPOSED ELEC FEEDER
- PROPOSED TREE LINE
- PROPOSED ORANGE CONSTRUCTION FENCE
- PROPOSED UNDERGROUND ELECTRIC
- PROPOSED OVERHEAD WIRE CENTER LINE
- PROPOSED BERM
- PROPOSED BAFFLE
- PROPOSED PHOTOVOLTAIC ARRAY
- PROPOSED PIPE AND ENDWALL
- PROPOSED GATE
- CONCRETE WASHOUT
- PROPOSED BASIN STRUCTURE
- TEST PIT
- SILT SOCK ID LABEL
- PROPOSED ELECTRIC POLE
- ROCK CONSTRUCTION ENTRANCE
- RIPRAP
- VEGETATION FILTER
- PROPOSED INVERTER

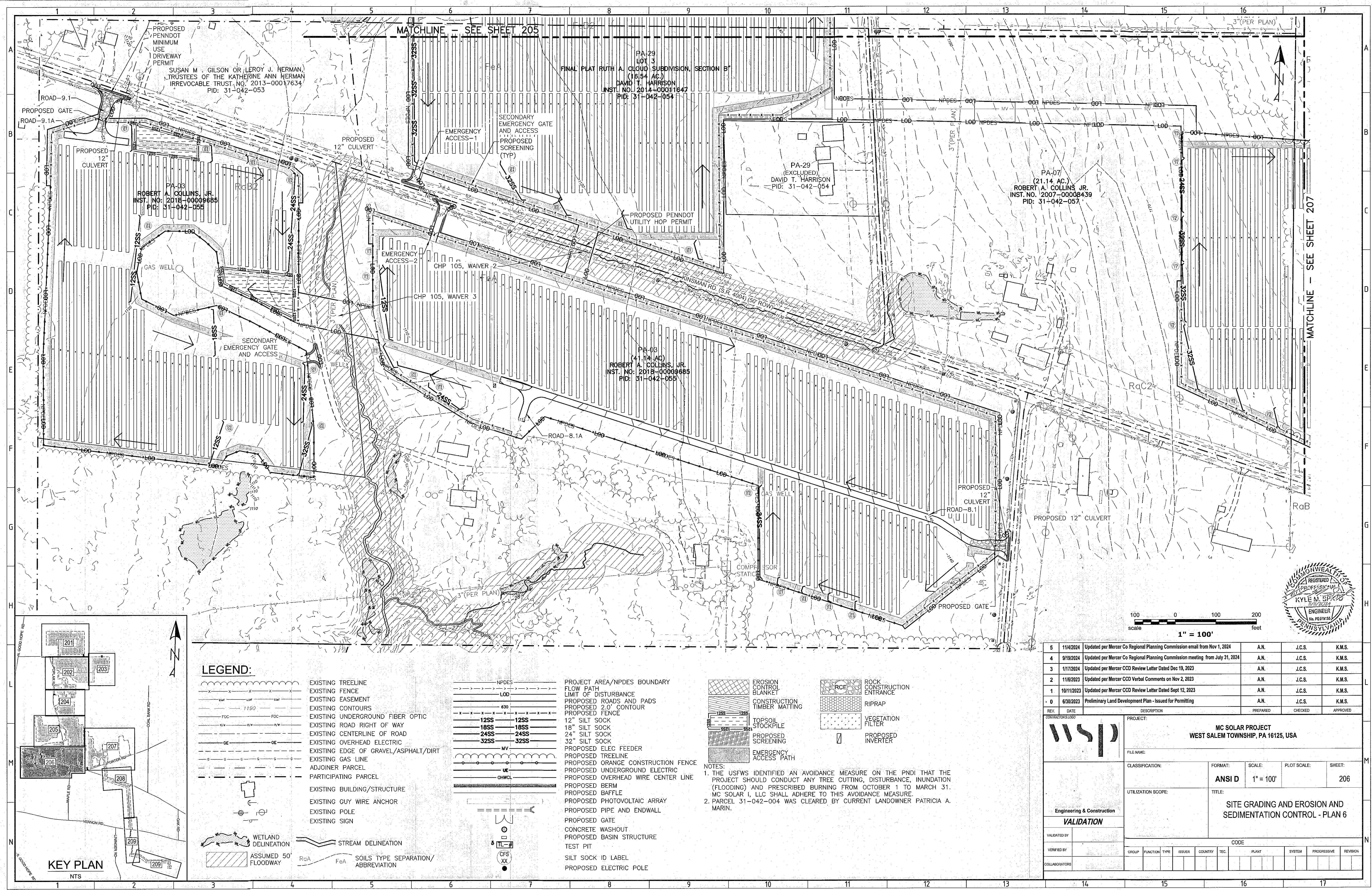
NOTES:
1. THE USFWS IDENTIFIED AN AVOIDANCE MEASURE ON THE PNDI THAT THE PROJECT SHOULD CONDUCT ANY TREE CUTTING, DISTURBANCE, INUNDATION (FLOODING) AND PRESCRIBED BURNING FROM OCTOBER 1 TO MARCH 31. MC SOLAR I, LLC SHALL ADHERE TO THIS AVOIDANCE MEASURE.
2. PARCEL 31-042-004 WAS CLEARED BY CURRENT LANDOWNER PATRICIA A. MARIN.

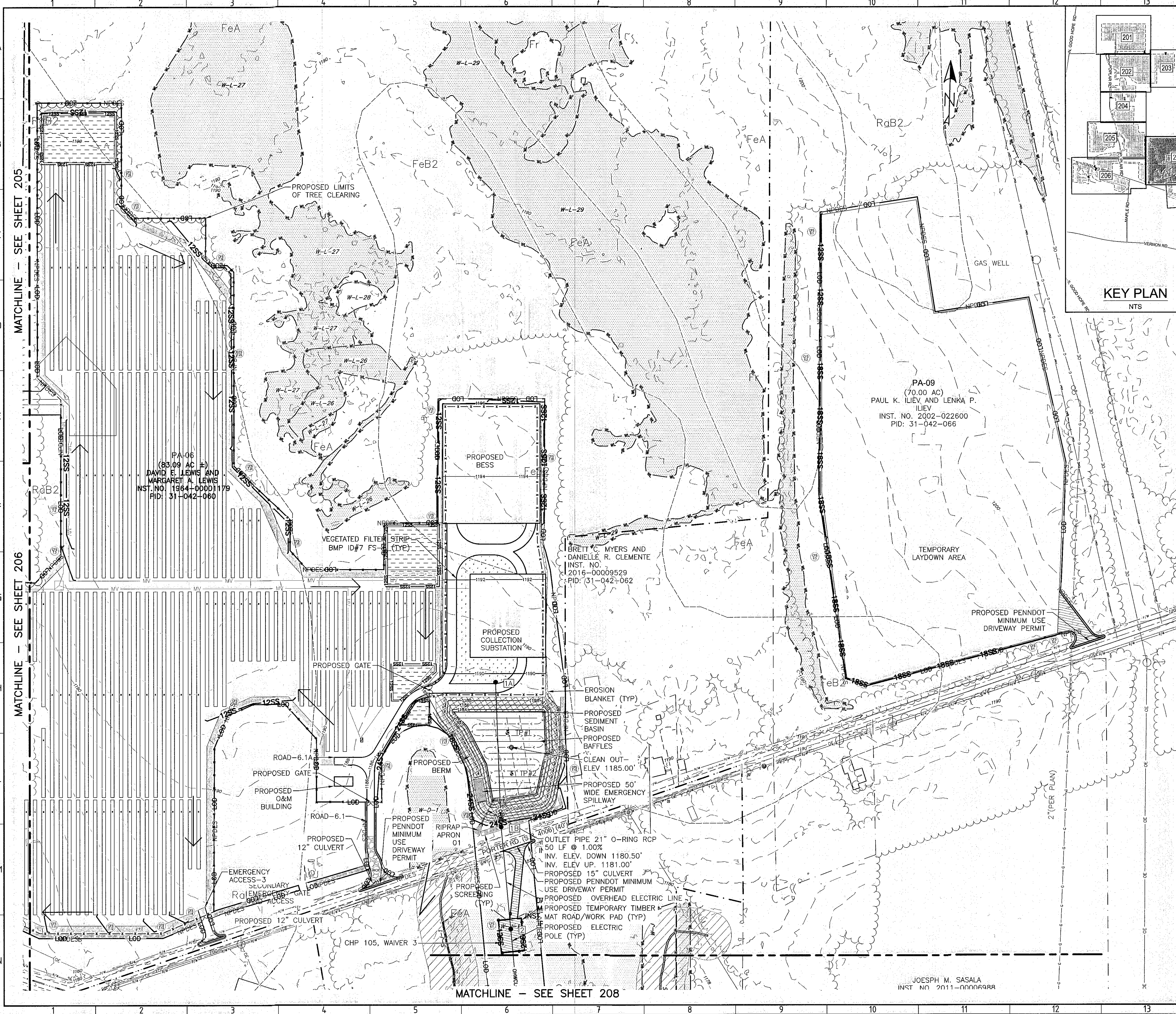


5	11/4/2024	Updated per Mercer Co Regional Planning Commission email from Nov 1, 2024	A.N.	J.C.S.	K.M.S.
4	9/19/2024	Updated per Mercer Co Regional Planning Commission meeting from July 31, 2024	A.N.	J.C.S.	K.M.S.
3	1/17/2024	Updated per Mercer CCD Review Letter Dated Dec 19, 2023	A.N.	J.C.S.	K.M.S.
2	11/6/2023	Updated per Mercer CCD Verbal Comments on Nov 2, 2023	A.N.	J.C.S.	K.M.S.
1	10/11/2023	Updated per Mercer CCD Review Letter Dated Sept 12, 2023	A.N.	J.C.S.	K.M.S.
0	6/30/2023	Preliminary Land Development Plan - Issued for Permitting	A.N.	J.C.S.	K.M.S.

CONTRACTOR'S LOG		PROJECT:	
		MC SOLAR PROJECT WEST SALEM TOWNSHIP, PA 16125, USA	
FILE NAME:			
CLASSIFICATION:	FORMAT:	SCALE:	PLOT SCALE:
	ANSI D	1" = 100'	205
UTILIZATION SCOPE:	TITLE:		
	SITE GRADING AND EROSION AND SEDIMENTATION CONTROL - PLAN 5		
VALIDATION		CODE	
VALIDATED BY:			
VERIFIED BY:			
COLLABORATORS			
GROUP	FUNCTION	TYPE	ISSUER
COUNTRY	TEC.	PLANT	SYSTEM
PROGRESSIVE	REVISION		







MATCHLINE - SEE SHEET 205

MATCHLINE - SEE SHEET 206

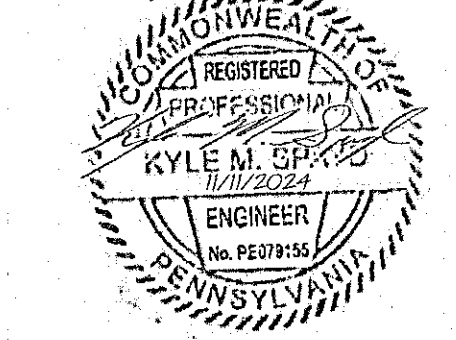
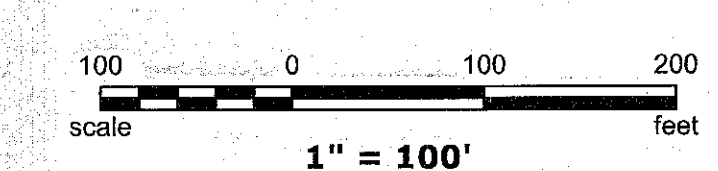
MATCHLINE - SEE SHEET 208

JOSEPH M. SASALA
INST. NO. 2011-00006988

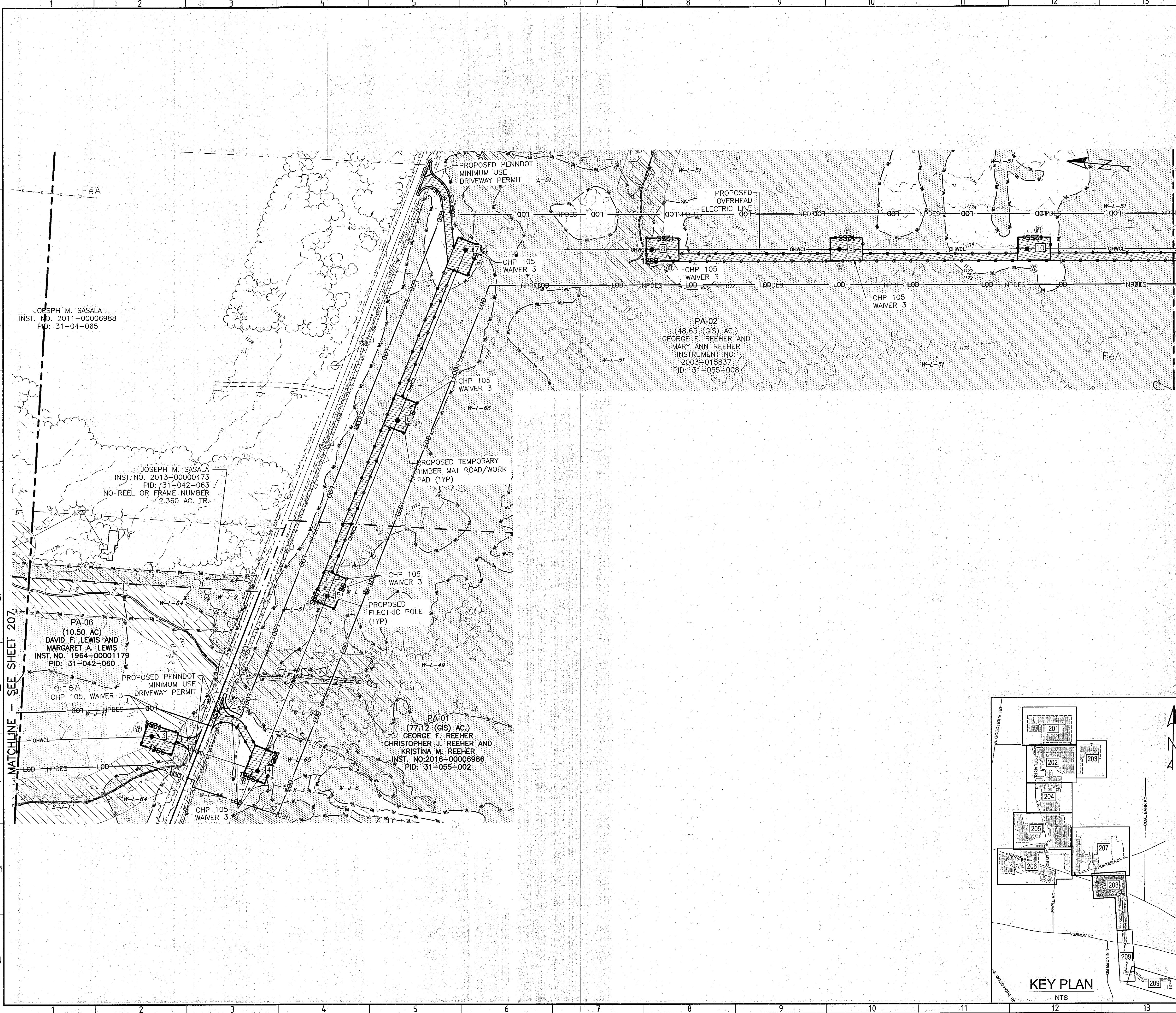
- LEGEND:**
- EXISTING TREELINE
 - EXISTING FENCE
 - EXISTING EASEMENT
 - EXISTING CONTOURS
 - EXISTING UNDERGROUND FIBER OPTIC
 - EXISTING ROAD RIGHT OF WAY
 - EXISTING CENTERLINE OF ROAD
 - EXISTING OVERHEAD ELECTRIC
 - EXISTING EDGE OF GRAVEL/ASPHALT/DIRT
 - EXISTING GAS LINE
 - ADJOINER PARCEL
 - PARTICIPATING PARCEL
 - EXISTING BUILDING/STRUCTURE
 - EXISTING GUY WIRE ANCHOR
 - EXISTING POLE
 - EXISTING SIGN

- WETLAND DELINEATION
- STREAM DELINEATION
- ASSUMED 50' FLOODWAY
- NPDES
- PROJECT AREA/NPDES BOUNDARY
- FLOW PATH
- LIMIT OF DISTURBANCE
- PROPOSED ROADS AND PADS
- PROPOSED 2.0' CONTOUR
- PROPOSED FENCE
- 12SS 12SS
- 18SS 18SS
- 24SS 24SS
- 32SS 32SS
- 12" SILT SOCK
- 18" SILT SOCK
- 24" SILT SOCK
- 32" SILT SOCK
- PROPOSED ELEC FEEDER
- PROPOSED TREELINE
- PROPOSED ORANGE CONSTRUCTION FENCE
- PROPOSED UNDERGROUND ELECTRIC
- PROPOSED OVERHEAD WIRE CENTER LINE
- PROPOSED BERM
- PROPOSED BAFFLE
- PROPOSED PHOTOVOLTAIC ARRAY
- PROPOSED PIPE AND ENDWALL
- PROPOSED GATE
- CONCRETE WASHOUT
- PROPOSED BASIN STRUCTURE
- TEST PIT
- SILT SOCK ID LABEL
- PROPOSED ELECTRIC POLE
- ROCK CONSTRUCTION ENTRANCE
- RIPRAP
- VEGETATION FILTER
- PROPOSED INVERTER
- EROSION CONTROL BLANKET
- CONSTRUCTION TIMBER MATTING
- TOPSOIL STOCKPILE
- PROPOSED SCREENING
- EMERGENCY ACCESS PATH

NOTES:
1. THE USFWS IDENTIFIED AN AVOIDANCE MEASURE ON THE PNDI THAT THE PROJECT SHOULD CONDUCT ANY TREE CUTTING, DISTURBANCE, INUNDATION (FLOODING) AND PRESCRIBED BURNING FROM OCTOBER 1 TO MARCH 31. MC SOLAR 1, LLC SHALL ADHERE TO THIS AVOIDANCE MEASURE.
2. PARCEL 31-042-004 WAS CLEARED BY CURRENT LANDOWNER PATRICIA A. MARIN.



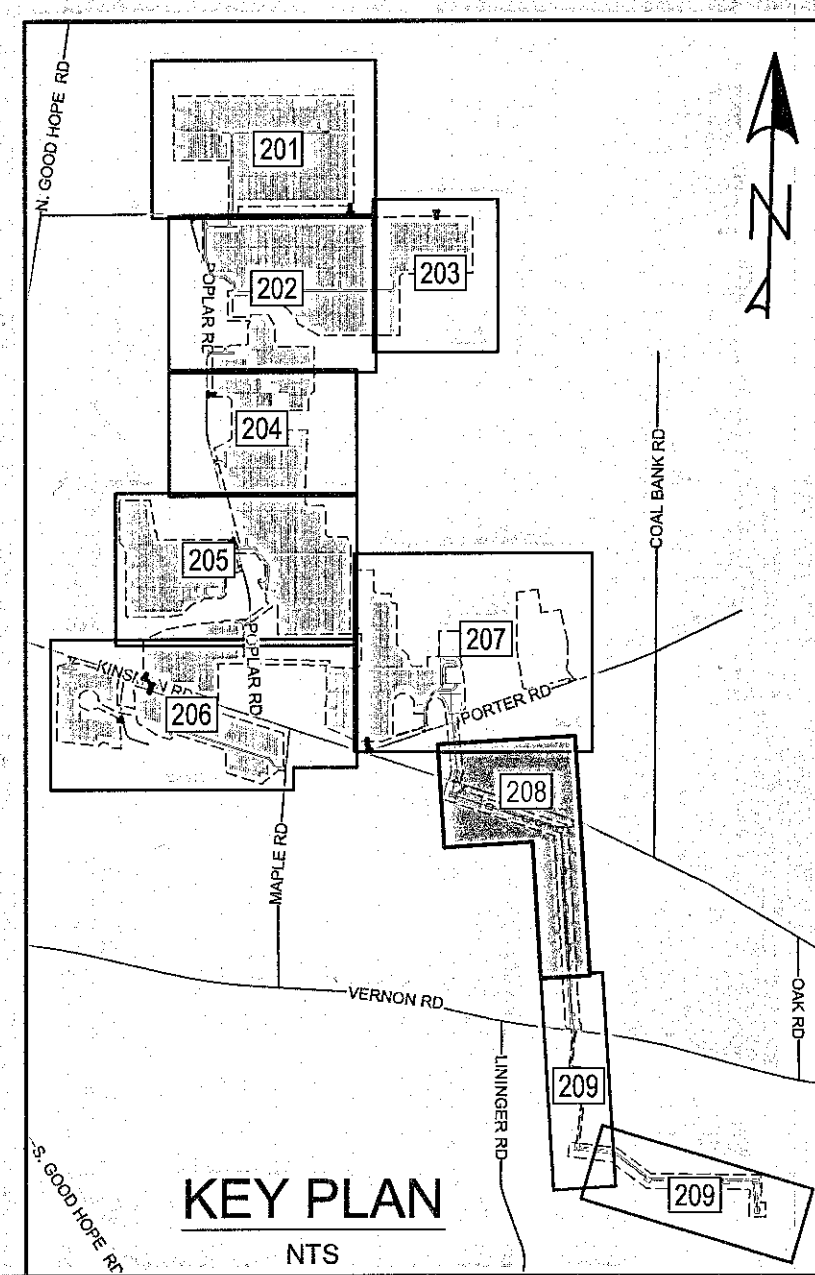
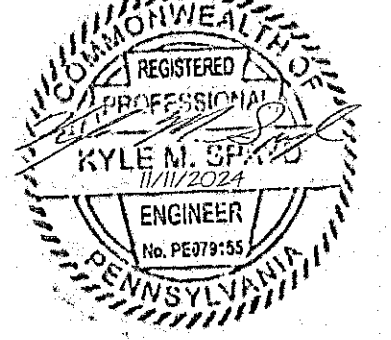
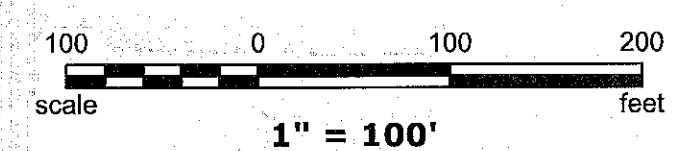
5	11/4/2024	Updated per Mercer Co Regional Planning Commission email from Nov 1, 2024	A.N.	J.C.S.	K.M.S.
4	9/19/2024	Updated per Mercer Co Regional Planning Commission meeting from July 31, 2024	A.N.	J.C.S.	K.M.S.
3	1/17/2024	Updated per Mercer CCD Review Letter Dated Dec 19, 2023	A.N.	J.C.S.	K.M.S.
2	11/6/2023	Updated per Mercer CCD Verbal Comments on Nov 2, 2023	A.N.	J.C.S.	K.M.S.
1	10/11/2023	Updated per Mercer CCD Review Letter Dated Sept 12, 2023	A.N.	J.C.S.	K.M.S.
0	6/30/2023	Preliminary Land Development Plan - Issued for Permitting	A.N.	J.C.S.	K.M.S.
REV.	DATE	DESCRIPTION	PREPARED	CHECKED	APPROVED
CONTRACTOR'S LOGO			PROJECT:		
wsp			MC SOLAR PROJECT WEST SALEM TOWNSHIP, PA 16125, USA		
FILE NAME:			CLASSIFICATION:		
			FORMAT: SCALE: PLOT SCALE: SHEET:		
			ANSI D 1" = 100' 207		
UTILIZATION SCOPE:			TITLE:		
Engineering & Construction			SITE GRADING AND EROSION AND SEDIMENTATION CONTROL - PLAN 7		
VALIDATION			CODE		
VALIDATED BY			GROUP	FUNCTION	TYPE
VERIFIED BY			ISSUER	COUNTRY	TEC.
COLLABORATORS			PLANT	SYSTEM	PROGRESSIVE
			REVISION		



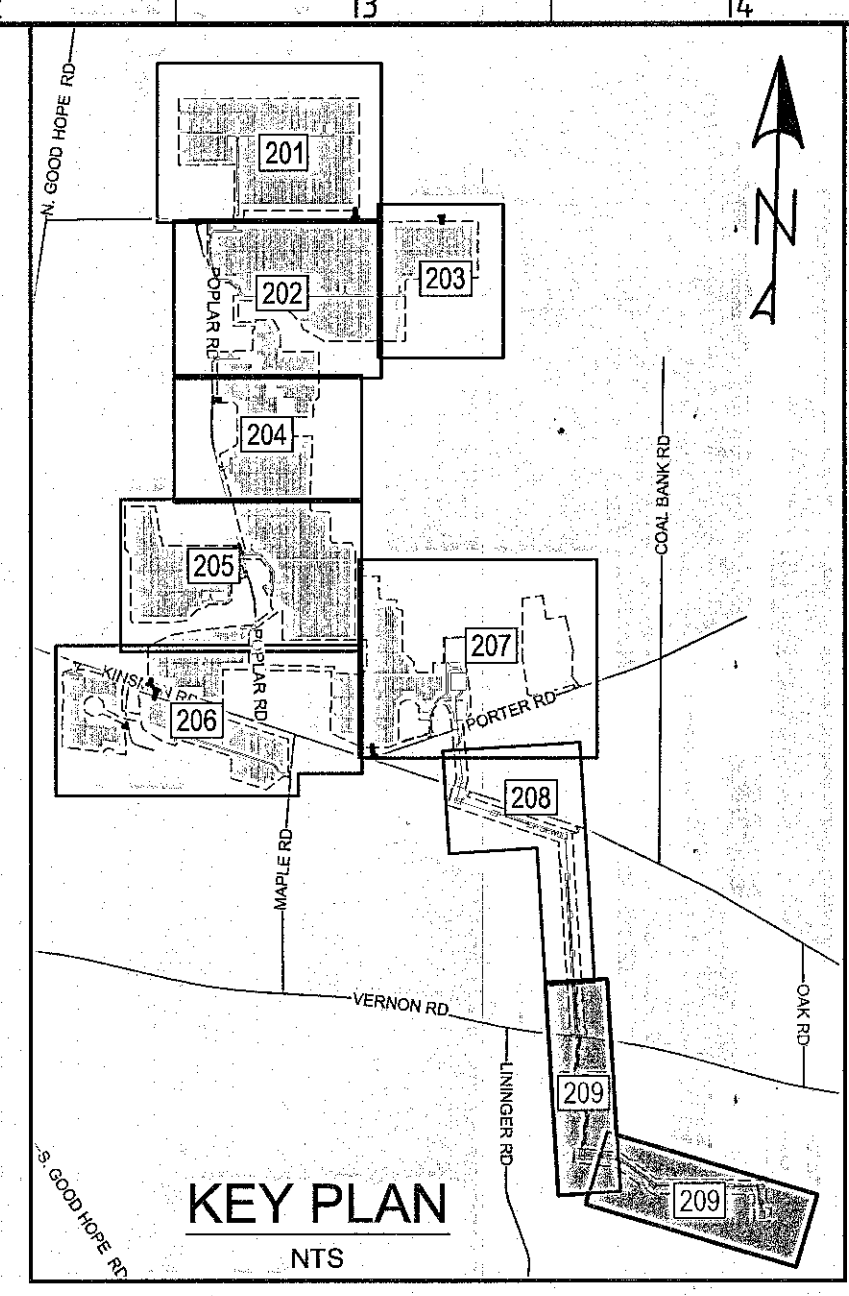
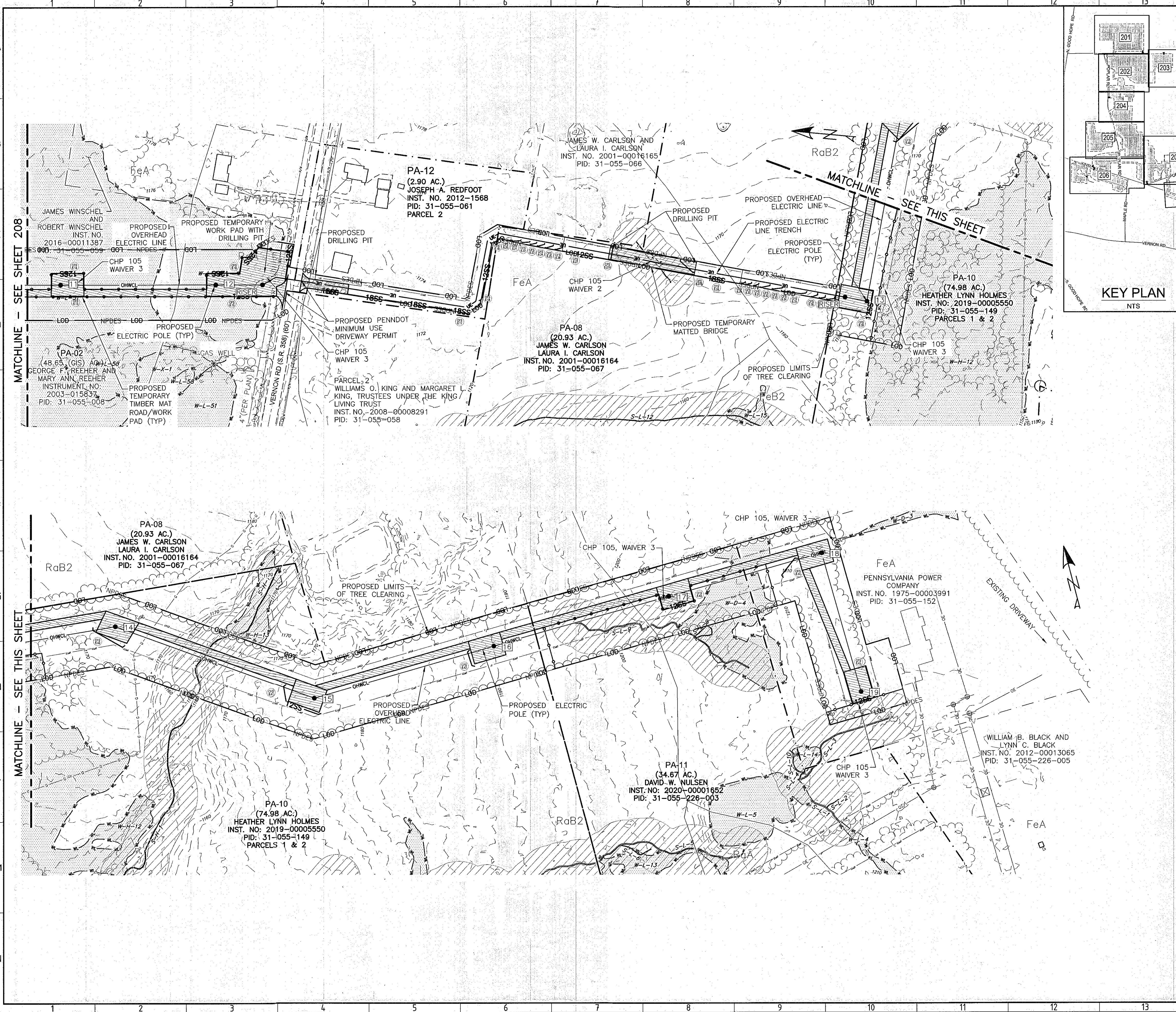
- LEGEND:**
- EXISTING TREELINE
 - EXISTING FENCE
 - EXISTING EASEMENT
 - EXISTING CONTOURS
 - EXISTING UNDERGROUND FIBER OPTIC
 - EXISTING ROAD RIGHT OF WAY
 - EXISTING CENTERLINE OF ROAD
 - EXISTING OVERHEAD ELECTRIC
 - EXISTING EDGE OF GRAVEL/ASPHALT/DIRT
 - EXISTING GAS LINE
 - ADJOINER PARCEL
 - PARTICIPATING PARCEL
 - EXISTING BUILDING/STRUCTURE
 - EXISTING GUY WIRE ANCHOR
 - EXISTING POLE
 - EXISTING SIGN

- WETLAND DELINEATION
- STREAM DELINEATION
- ASSUMED 50' FLOODWAY
- SOILS TYPE SEPARATION/ABBREVIATION
- PROJECT AREA/NPDES BOUNDARY
- FLOW PATH
- LIMIT OF DISTURBANCE
- PROPOSED ROADS AND PADS
- PROPOSED 2.0' CONTOUR
- PROPOSED FENCE
- 12SS 12SS
- 18SS 18SS
- 24SS 24SS
- 32SS 32SS
- 12" SILT SOCK
- 18" SILT SOCK
- 24" SILT SOCK
- 32" SILT SOCK
- PROPOSED ELEC FEEDER
- PROPOSED TREELINE
- PROPOSED ORANGE CONSTRUCTION FENCE
- PROPOSED UNDERGROUND ELECTRIC
- PROPOSED OVERHEAD WIRE CENTER LINE
- PROPOSED BERM
- PROPOSED BAFFLE
- PROPOSED PHOTOVOLTAIC ARRAY
- PROPOSED PIPE AND ENDWALL
- PROPOSED GATE
- CONCRETE WASHOUT
- PROPOSED BASIN STRUCTURE
- TEST PIT
- SILT SOCK ID LABEL
- PROPOSED ELECTRIC POLE
- ROCK CONSTRUCTION ENTRANCE
- RIPRAP
- VEGETATION FILTER
- PROPOSED INVERTER

NOTES:
1. THE USFWS IDENTIFIED AN AVOIDANCE MEASURE ON THE PNDI THAT THE PROJECT SHOULD CONDUCT ANY TREE CUTTING, DISTURBANCE, INUNDATION (FLOODING) AND PRESCRIBED BURNING FROM OCTOBER 1 TO MARCH 31. MC SOLAR I, LLC SHALL ADHERE TO THIS AVOIDANCE MEASURE.
2. PARCEL 31-042-004 WAS CLEARED BY CURRENT LANDOWNER PATRICIA A. MARIN.



5	11/4/2024	Updated per Mercer Co Regional Planning Commission email from Nov 1, 2024	A.N.	J.C.S.	K.M.S.
4	9/13/2024	Updated per Mercer Co Regional Planning Commission meeting from July 31, 2024	A.N.	J.C.S.	K.M.S.
3	1/17/2024	Updated per Mercer CCD Review Letter Dated Dec 19, 2023	A.N.	J.C.S.	K.M.S.
2	11/6/2023	Updated per Mercer CCD Verbal Comments on Nov 2, 2023	A.N.	J.C.S.	K.M.S.
1	10/11/2023	Updated per Mercer CCD Review Letter Dated Sept 12, 2023	A.N.	J.C.S.	K.M.S.
0	6/30/2023	Preliminary Land Development Plan - Issued for Permitting	A.N.	J.C.S.	K.M.S.
REV.	DATE	DESCRIPTION	PREPARED	CHECKED	APPROVED
CONTRACTOR'S LOGO			PROJECT:		
wsp			MC SOLAR PROJECT WEST SALEM TOWNSHIP, PA 16125, USA		
FILE NAME:			CLASSIFICATION:	FORMAT:	SCALE:
				ANSI D	1" = 100'
UTILIZATION SCOPE:			TITLE:	PLOT SCALE:	SHEET:
			SITE GRADING AND EROSION AND SEDIMENTATION CONTROL - PLAN 8		208
Engineering & Construction			CODE		
VALIDATION					
VALIDATED BY			GROUP	FUNCTION	TYPE
VERIFIED BY			ISSUER	COUNTRY	TEC.
COLLABORATORS			PLANT	SYSTEM	PROGRESSIVE
			REVISION		



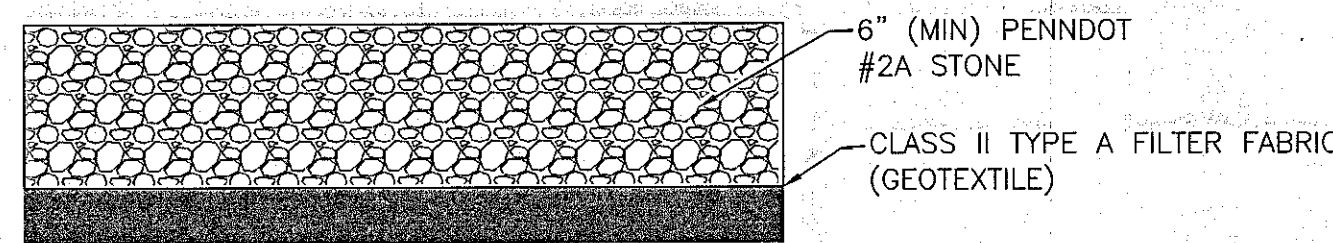
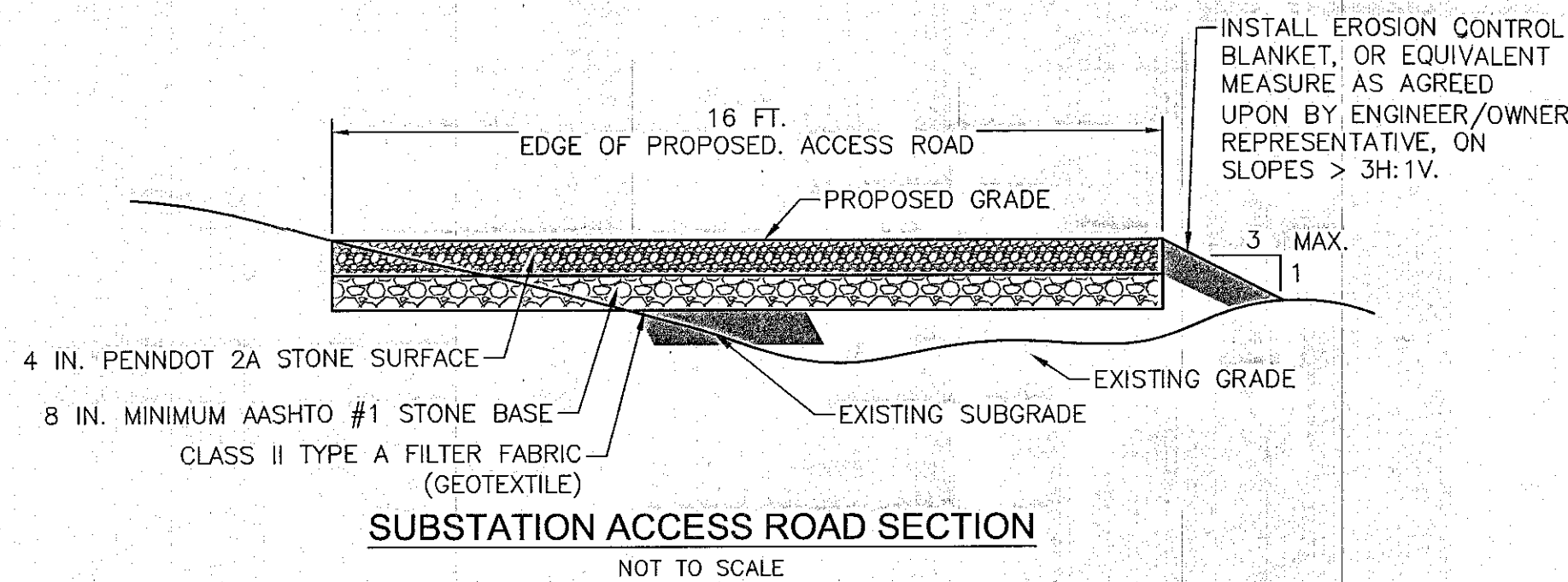
LEGEND:

- EXISTING TREELINE
- EXISTING FENCE
- EXISTING EASEMENT
- EXISTING CONTOURS
- EXISTING UNDERGROUND FIBER OPTIC
- EXISTING ROAD RIGHT OF WAY
- EXISTING CENTERLINE OF ROAD
- EXISTING OVERHEAD ELECTRIC
- EXISTING EDGE OF GRAVEL/ASPHALT/DIRT
- EXISTING GAS LINE
- ADJOINER PARCEL
- PARTICIPATING PARCEL
- EXISTING BUILDING/STRUCTURE
- EXISTING GUY WIRE ANCHOR
- EXISTING POLE
- EXISTING SIGN
- WETLAND DELINEATION
- STREAM DELINEATION
- ASSUMED 50' FLOODWAY
- SOILS TYPE SEPARATION/ABBREVIATION
- PROJECT AREA/NPDES BOUNDARY
- FLOW PATH
- LIMIT OF DISTURBANCE
- PROPOSED ROADS AND PADS
- PROPOSED 5.0' CONTOUR
- PROPOSED FENCE
- 12SS 12SS
- 18SS 18SS
- 24SS 24SS
- 32SS 32SS
- PROPOSED ELEC FEEDER
- PROPOSED TREELINE
- PROPOSED ORANGE CONSTRUCTION FENCE
- PROPOSED UNDERGROUND ELECTRIC
- PROPOSED OVERHEAD WIRE CENTER LINE
- PROPOSED BERM
- PROPOSED BAFFLE
- PROPOSED PHOTOVOLTAIC ARRAY
- PROPOSED PIPE AND ENDWALL
- PROPOSED GATE
- CONCRETE WASHOUT
- PROPOSED BASIN STRUCTURE
- TEST PIT
- SILT SOCK ID LABEL
- PROPOSED ELECTRIC POLE
- ROCK CONSTRUCTION ENTRANCE
- RIPRAP
- VEGETATION FILTER
- PROPOSED INVERTER
- EROSION CONTROL BLANKET
- CONSTRUCTION TIMBER MATTING
- TOPSOIL STOCKPILE
- PROPOSED SCREENING
- EMERGENCY ACCESS PATH

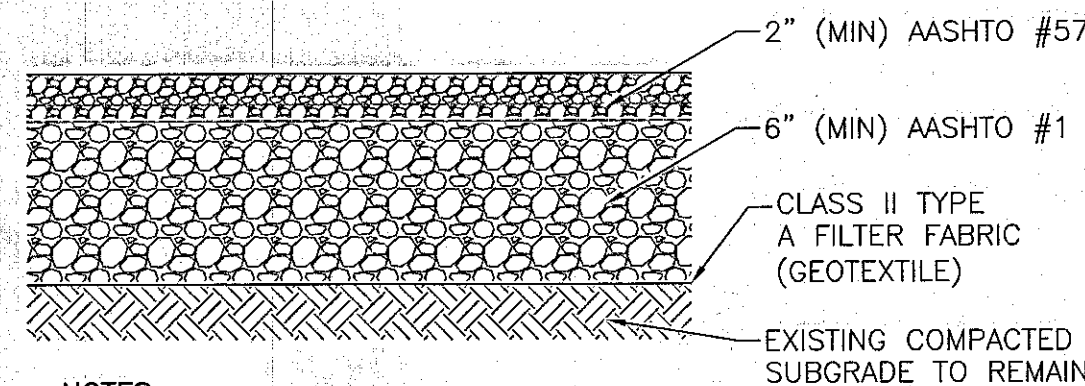
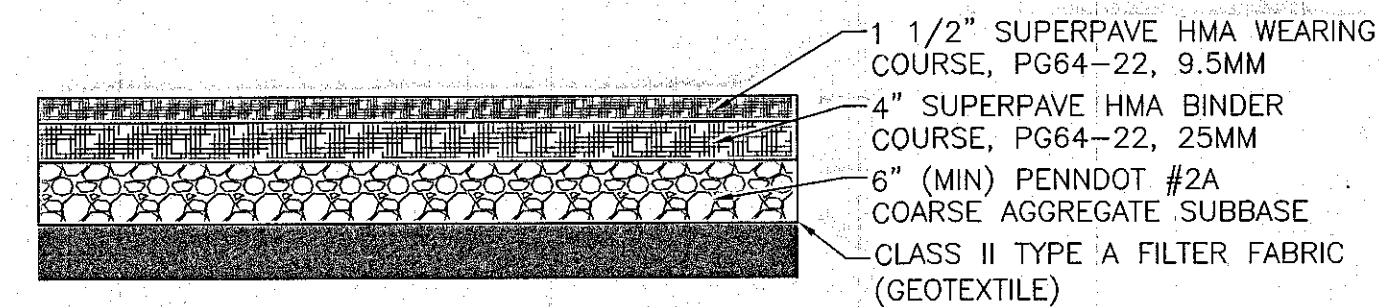
NOTES:
1. THE USFWS IDENTIFIED AN AVOIDANCE MEASURE ON THE PNDI THAT THE PROJECT SHOULD CONDUCT ANY TREE CUTTING, DISTURBANCE, INUNDATION (FLOODING) AND PRESCRIBED BURNING FROM OCTOBER 1 TO MARCH 31. MC SOLAR 1, LLC SHALL ADHERE TO THIS AVOIDANCE MEASURE.
2. PARCEL 31-042-004 WAS CLEARED BY CURRENT LANDOWNER PATRICIA A. MARIN.

Scale: 1" = 100'

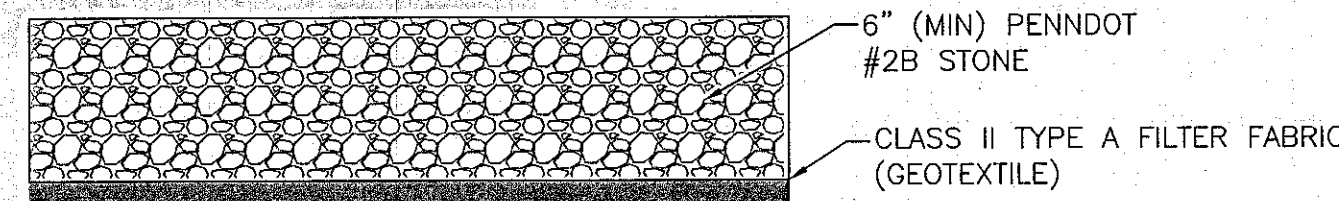
5	11/4/2024	Updated per Mercer Co Regional Planning Commission email from Nov 1, 2024	A.N.	J.C.S.	K.M.S.
4	9/19/2024	Updated per Mercer Co Regional Planning Commission meeting from July 31, 2024	A.N.	J.C.S.	K.M.S.
3	11/17/2024	Updated per Mercer CCD Review Letter Dated Dec 19, 2023	A.N.	J.C.S.	K.M.S.
2	11/16/2023	Updated per Mercer CCD Verbal Comments on Nov 2, 2023	A.N.	J.C.S.	K.M.S.
1	10/11/2023	Updated per Mercer CCD Review Letter Dated Sept 12, 2023	A.N.	J.C.S.	K.M.S.
0	6/30/2023	Preliminary Land Development Plan - Issued for Permitting	A.N.	J.C.S.	K.M.S.
REV.	DATE	DESCRIPTION	PREPARED	CHECKED	APPROVED
			PROJECT: MC SOLAR PROJECT WEST SALEM TOWNSHIP, PA 16125, USA		
FILE NAME:			CLASSIFICATION:	FORMAT:	SCALE:
				ANSI D	1" = 100'
			UTILIZATION SCOPE:	TITLE:	PLOT SCALE:
				SITE GRADING AND EROSION AND SEDIMENTATION CONTROL - PLAN 9	SHEET: 209
Engineering & Construction VALIDATION			CODE		
VALIDATED BY			GROUP	FUNCTION	TYPE
VERIFIED BY			ISSUER	COUNTRY	TEC.
COLLABORATORS			PLANT	SYSTEM	PROGRESSIVE
			REVISION		



NOTES:
AFTER COMPLETION OF GRADING THE YARD AREA INSIDE THE FENCE AND THE GRAVEL AREA EXTENDED TEN (10) FEET BEYOND THE FENCE, EXCLUDING DESIGNATED ROADWAY AREAS SHALL BE COVERED WITH CRUSHED STONE AGGREGATE, PADOT TYPE 2B, HAVING A MINIMUM THICKNESS OF 6 INCHES.



NOTES:
REFER TO THE PLAN SHEETS FOR THE LAYDOWN LOCATION.
PLACED STONE MATERIAL SHALL BE REFRESHED AS NEEDED IN CASE OF MUDDY CONDITIONS.
YARD WILL BE RESTORED OR REVEGETATED AFTER CONSTRUCTION.

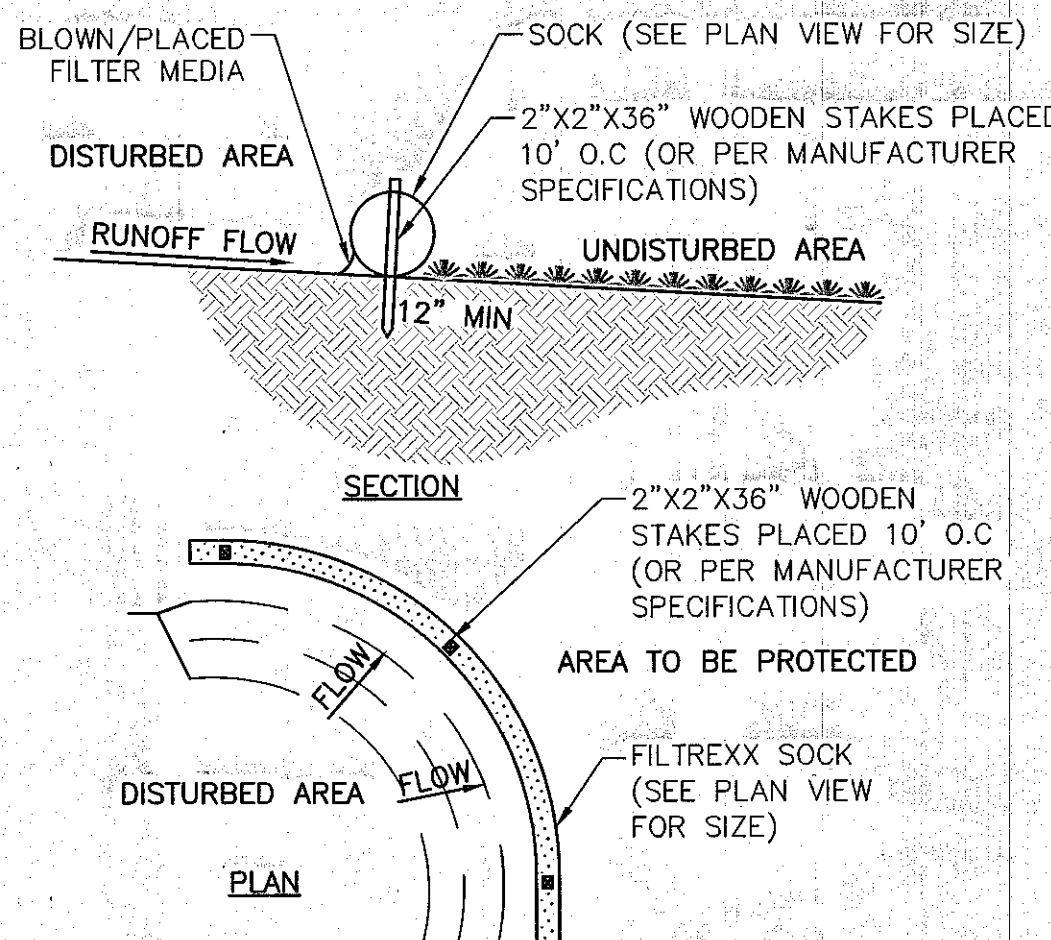


SOCK FABRIC SHALL MEET STANDARDS OF TABLE 4.1. COMPOST SHALL MEET THE FOLLOWING STANDARDS:

ORGANIC MATTER CONTENT	50%-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 IS MAXIMUM

MATERIAL TYPE	5 mil HDPE	5 mil HDPE	5 mil HDPE	MULTI-FILAMENT POLY-PROPYLENE	HEAVY DUTY MULTI-FILAMENT POLY-PROPYLENE (HDMFPP)
MATERIAL CHARACTERISTICS	PHOTO-DEGRADABLE	PHOTO-DEGRADABLE	BIO-DEGRADABLE	PHOTO-DEGRADABLE	PHOTO-DEGRADABLE
SOCK DIAMETERS	12" 18" 24" 32"	12" 18" 24" 32"	12" 18" 24" 32"	12" 18" 24" 32"	12" 18" 24" 32"
MESH OPENING	3/8"	3/8"	3/8"	3/8"	3/8"
TENSILE STRENGTH	26 PSI	26 PSI	26 PSI	44 PSI	202 PSI
ULTRAVIOLET STABILITY % ORIGINAL STRENGTH (ASTM G-155)	0% AT 1000 HR	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

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



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.

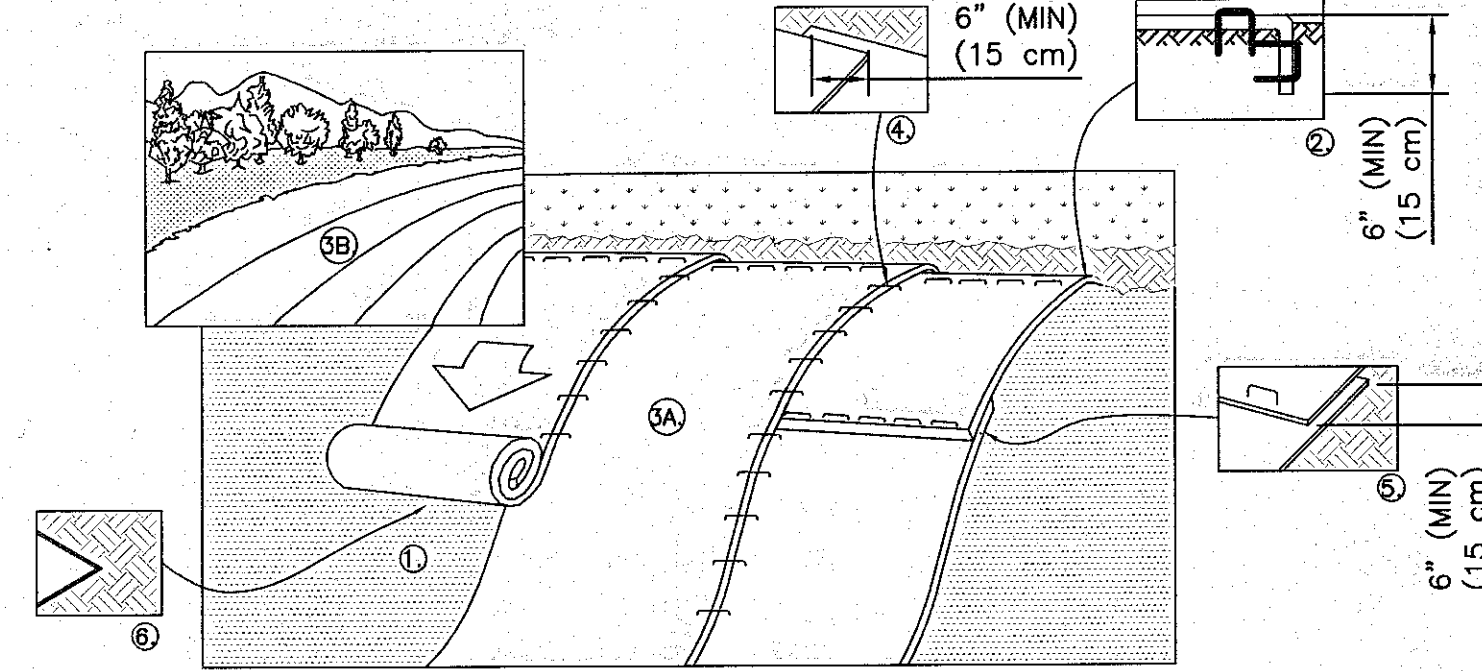
COMPOST FILTER SOCKS SHALL BE INSPECTED WEEKLY AND AFTER EACH RUNOFF EVENT. DAMAGED SOCKS SHALL BE REPAIRED ACCORDING TO MANUFACTURER'S SPECIFICATIONS OR REPLACED WITHIN 24 HOURS OF INSPECTION.

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.

COMPOST FILTER SOCK #4-1

NOT TO SCALE



PREPARE SOIL BEFORE INSTALLING ROLLED EROSION CONTROL PRODUCTS (RECPS), INCLUDING ANY NECESSARY APPLICATION OF LIME, FERTILIZER, AND SEED.
BEGIN AT THE TOP OF THE SLOPE BY ANCHORING THE RECPS IN A 6" (15 CM) DEEP X 6" (15 CM) WIDE TRENCH WITH APPROXIMATELY 12" (30 CM) OF RECPS EXTENDED BEYOND THE UP-SLOPE PORTION OF THE TRENCH. BACKFILL AND COMPACT THE TRENCH AFTER STAPLING. APPLY SEED TO COMPACTED SOIL AND FOLD REMAINING 12" (30 CM) PORTION OF RECPS BACK OVER SEED AND COMPACTED SOIL. SECURE RECPS OVER COMPACTED SOIL WITH A ROW OF STAPLES/STAKES SPACED APPROXIMATELY 12" (30 CM) APART ACROSS THE WIDTH OF THE RECPS.

ROLL THE RECPS (A.) DOWN OR (B.) HORIZONTALLY ACROSS THE SLOPE. RECPS WILL UNROLL WITH APPROPRIATE SIDE AGAINST THE SOIL SURFACE. ALL RECPS 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.

THE EDGES OF PARALLEL RECPS MUST BE STAPLED WITH A MINIMUM OF 4" (10 CM) OVERLAP, DEPENDING ON RECP TYPE.

CONSECUTIVE RECPS SPICED DOWN THE SLOPE MUST BE PLACED END OVER END (SHINGLE STYLE) WITH AN APPROXIMATE 6" (15 CM) OVERLAP. STAPLE THROUGH OVERLAPPED AREA, APPROXIMATELY 12" (30 CM) APART ACROSS ENTIRE WIDTH OF THE RECP.

BLANKET SHALL HAVE GOOD CONTINUOUS CONTACT WITH UNDERLYING SOIL THROUGHOUT ENTIRE LENGTH. LAY BLANKET LOOSELY AND STAKE OR STAPLE TO MAINTAIN DIRECT CONTACT WITH SOIL. DO NOT STRETCH BLANKET.

CONTRACTOR SHALL INSTALL NORTH AMERICAN GREEN S75BN™ OR APPROVED EQUAL FOR 3:1 SLOPES AND NORTH AMERICAN GREEN S150BN™ OR APPROVED EQUAL FOR 2:1 SLOPES OR STEEPER. THEY ARE BOTH DESIGNED TO PROVIDE UP TO 12 MONTHS OF EROSION PROTECTION. CONTRACTOR CAN SUBMIT ALTERNATE TYPES TO THE ENGINEER TO BE APPROVED.

SEED AND SOIL AMENDMENTS SHALL BE APPLIED ACCORDING TO THE RATES IN THE PLAN DRAWINGS PRIOR TO INSTALLING THE BLANKET.

PROVIDE ANCHOR TRENCH AT TOE OF SLOPE IN SIMILAR FASHION AS AT TOP OF SLOPE.

SLOPE SURFACE SHALL BE FREE OF ROCKS, CLOUDS, STICKS, AND GRASS.

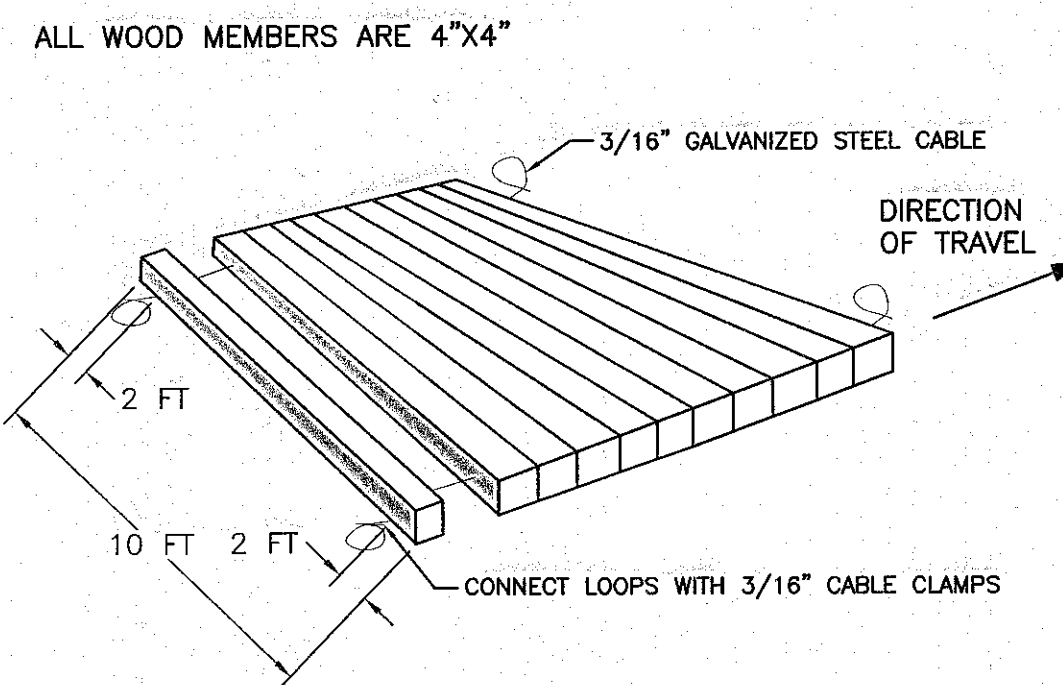
STAPLING OF THE BLANKET SHALL BE DONE IN ACCORDANCE WITH THE MANUFACTURER'S RECOMMENDATIONS.

BLANKETED AREAS SHALL BE INSPECTED WEEKLY AND AFTER EACH RUNOFF EVENT UNTIL PERMANENT STABILIZATION IS ACHIEVED. PERMANENT STABILIZATION IS DEFINED AS A MINIMUM UNIFORM, PERENNIAL 90% VEGETATIVE COVERAGE THROUGHOUT THE BLANKETED AREA. DAMAGED OR DISPLACED BLANKETS SHALL BE RESTORED OR REPLACED WITHIN 5 CALENDAR DAYS.

NOTE: IN LOOSE SOIL CONDITIONS, THE USE OF STAPLE OR STAKE LENGTHS GREATER THAN 6" MAY BE NECESSARY TO PROPERLY SECURE THE RECPS.

EROSION CONTROL BLANKET INSTALLATION #11-1

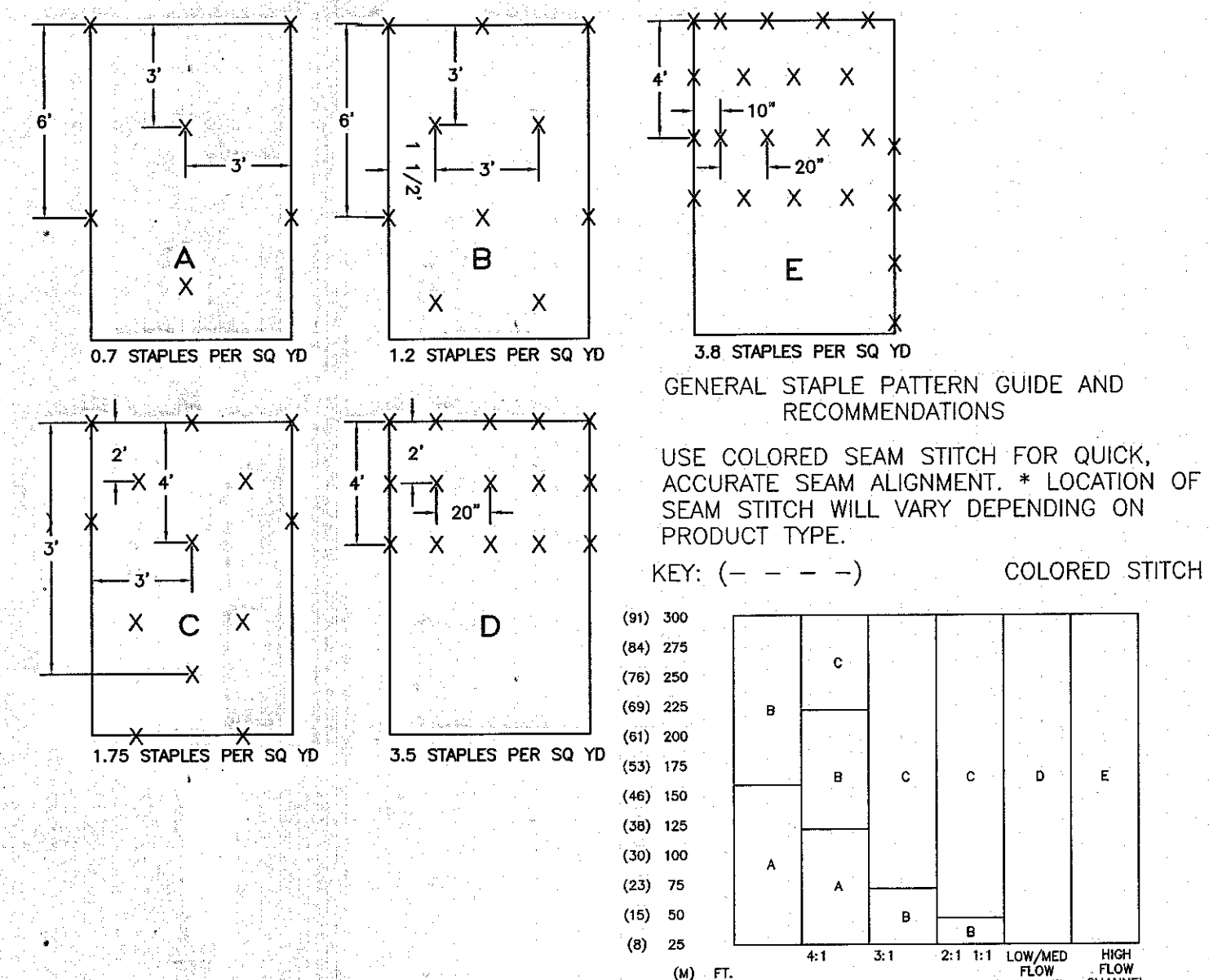
NOT TO SCALE



- NOTES:
- IN GENERAL, CONSTRUCTION MATTING SHALL BE PLACED FOR ALL ACCESS ROADS AND PADS LOCATED IN WETLANDS AND RESIDENTIAL LAWNS. REFER TO THE PLANS FOR SPECIFIC LOCATIONS.
 - CONTRACTOR MAY USE ANY OF THE TYPICAL CONSTRUCTION MAT TYPES AVAILABLE, UNLESS SPECIFIED OTHERWISE ON THE PLANS.
 - IF MATTING IS SPECIFIED ON UNEVEN GROUND, TIMBER TIE CRIBBING OR ADDITIONAL MATS MAY BE STACKED IN ORDER TO MAINTAIN A LEVEL WORK AREA.
 - INSPECT MATS ON A DAILY BASIS. REMOVE SEDIMENT THAT IS FORCED UP THROUGH OR TRACKED ONTO MATS. REPAIR DAMAGED MATS BEFORE ANY SUBSEQUENT USE.
 - A GEOTEXTILE UNDERLAYMENT SHALL BE USED UNDER THE WOOD MAT. TEMPORARY CONSTRUCTION MATTING SHALL BE REMOVED WITHOUT DISTURBING THE SURROUNDING AREAS. ANY GEOTEXTILE FABRIC UNDERLAYMENT MATERIAL SHALL BE REMOVED FROM THE SITE.

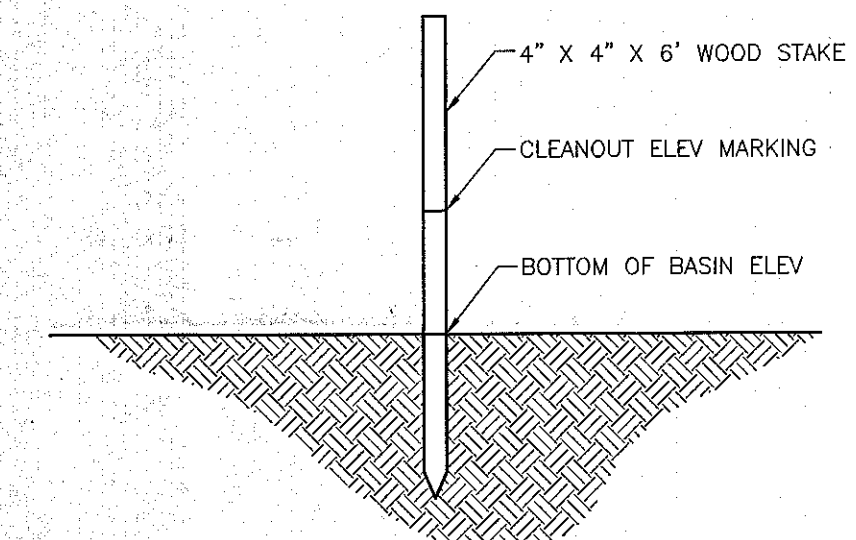
TYPICAL WOOD MAT FOR WETLAND CROSSING

NOT TO SCALE

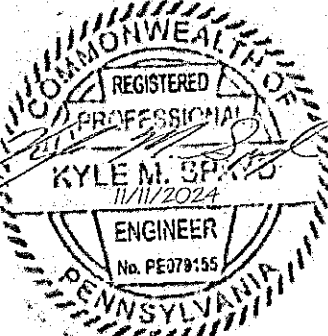


STAPLE PATTERN GUIDE

NOT TO SCALE



NOTES:
1. SEDIMENT MARKERS WILL BE USED IN THE SEDIMENT BASIN.
2. ELEVATION MARKING WILL BE MADE WITH WEATHER RESISTANT PAINT.



REV.	DATE	DESCRIPTION	PREPARED	CHECKED	APPROVED
5	11/4/2024	Updated per Mercer Co Regional Planning Commission email from Nov 1, 2024	A.N.	J.C.S.	K.M.S.
4	9/19/2024	Updated per Mercer Co Regional Planning Commission meeting from July 31, 2024	A.N.	J.C.S.	K.M.S.
3	1/17/2024	Updated per Mercer CCD Review Letter Dated Dec 19, 2023	A.N.	J.C.S.	K.M.S.
2	11/6/2023	Updated per Mercer CCD Verbal Comments on Nov 2, 2023	A.N.	J.C.S.	K.M.S.
1	10/11/2023	Updated per Mercer CCD Review Letter Dated Sept 12, 2023	A.N.	J.C.S.	K.M.S.
0	6/30/2023	Preliminary Land Development Plan - Issued for Permitting	A.N.	J.C.S.	K.M.S.

CONTRACTOR'S LOGO
WSP

PROJECT:
MC SOLAR PROJECT
WEST SALEM TOWNSHIP, PA 16125, USA

FILE NAME:

CLASSIFICATION:
Engineering & Construction

FORMAT:
ANSI D

SCALE:
AS SHOWN

PLOT SCALE:

SHEET:
210

UTILIZATION SCOPE:
TITLE: SESC DETAILS-1

VALIDATION

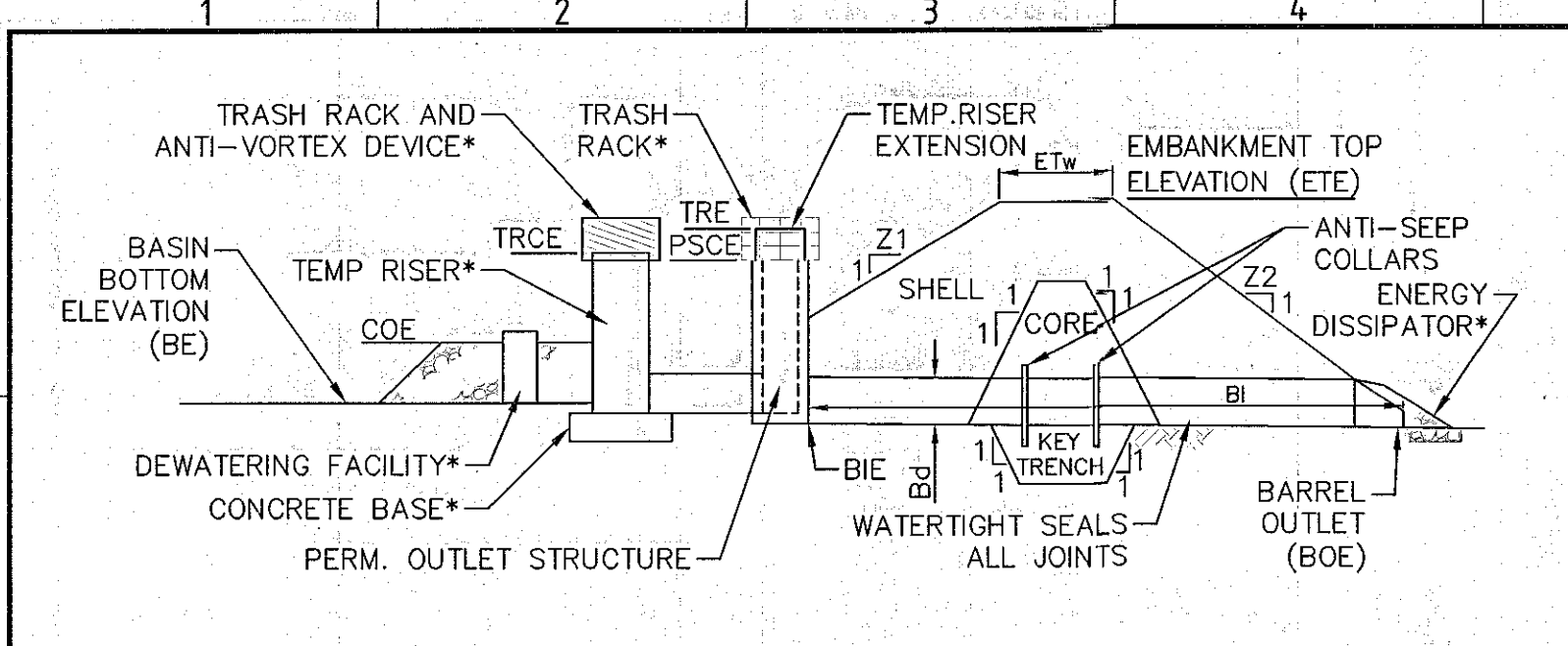
VALIDATED BY:

VERIFIED BY:

COLLABORATORS:

CODE

GROUP **FUNCTION** **TYPE** **ISSUER** **COUNTRY** **SEC.** **PLANT** **SYSTEM** **PROGRESSIVE** **REVISION**



* ALSO REFER TO SEDIMENT BASIN TEMPORARY RISER, EMERGENCY SPILLWAY, ENERGY DISSIPATER, TRASH RACK AND ANTI-VORTEX DEVICE, AND SEDIMENT STORAGE DEWATERING FACILITY DETAILS.

EMBANKMENT SECTION ALONG PRINCIPAL SPILLWAY

BASIN NO.	Z1 (FT)	Z2 (FT)	TEMPORARY RISER			BARREL			OUTLET ELEV BOE (FT)
			DIA TRd (IN)	CREST ELEV TRCE (FT)	MAT'L	DIA Bd (IN)	INLET ELEV BIE (FT)	LENGTH BI (FT)	
1	3	3	48	1187.00	CMP	21	1181.00	50	1180.50

EMBANKMENT				CLEANOUT		BOTTOM ELEV BE (FT)
TOP ELEV ETE (FT)	WIDTH ETW (FT)	TRENCH DEPTH (FT)	KEY TRENCH WIDTH (FT)	ELEV COE (FT)	ELEV BE (FT)	
1189.50	8	2	4	1185.00	1184.00	

NOTES:

SEDIMENT BASIN, INCLUDING ALL APPURTENANT WORKS, SHALL BE CONSTRUCTED TO THE DETAIL AND DIMENSIONS SHOWN ON THE E&S PLAN DRAWINGS.

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. FILL MATERIAL FOR THE EMBANKMENTS SHALL BE FREE OF ROOTS, OR OTHER WOODY VEGETATION, ORGANIC MATERIAL, LARGE STONES, AND OTHER OBJECTIONABLE MATERIALS. THE EMBANKMENT SHALL BE COMPACTED IN LAYERED LIFTS OF NOT MORE THAN 6 TO 9 IN. THE MAXIMUM ROCK SIZE SHALL BE NO GREATER THAN 2/3 THE LIFT THICKNESS. UPON COMPLETION, THE EMBANKMENT SHALL BE SEEDED AND MULCHED OR OTHERWISE STABILIZED ACCORDING TO THE SPECIFICATIONS OF THE E&S PLAN DRAWINGS. TREES SHALL NOT BE PLANTED ON THE EMBANKMENT.

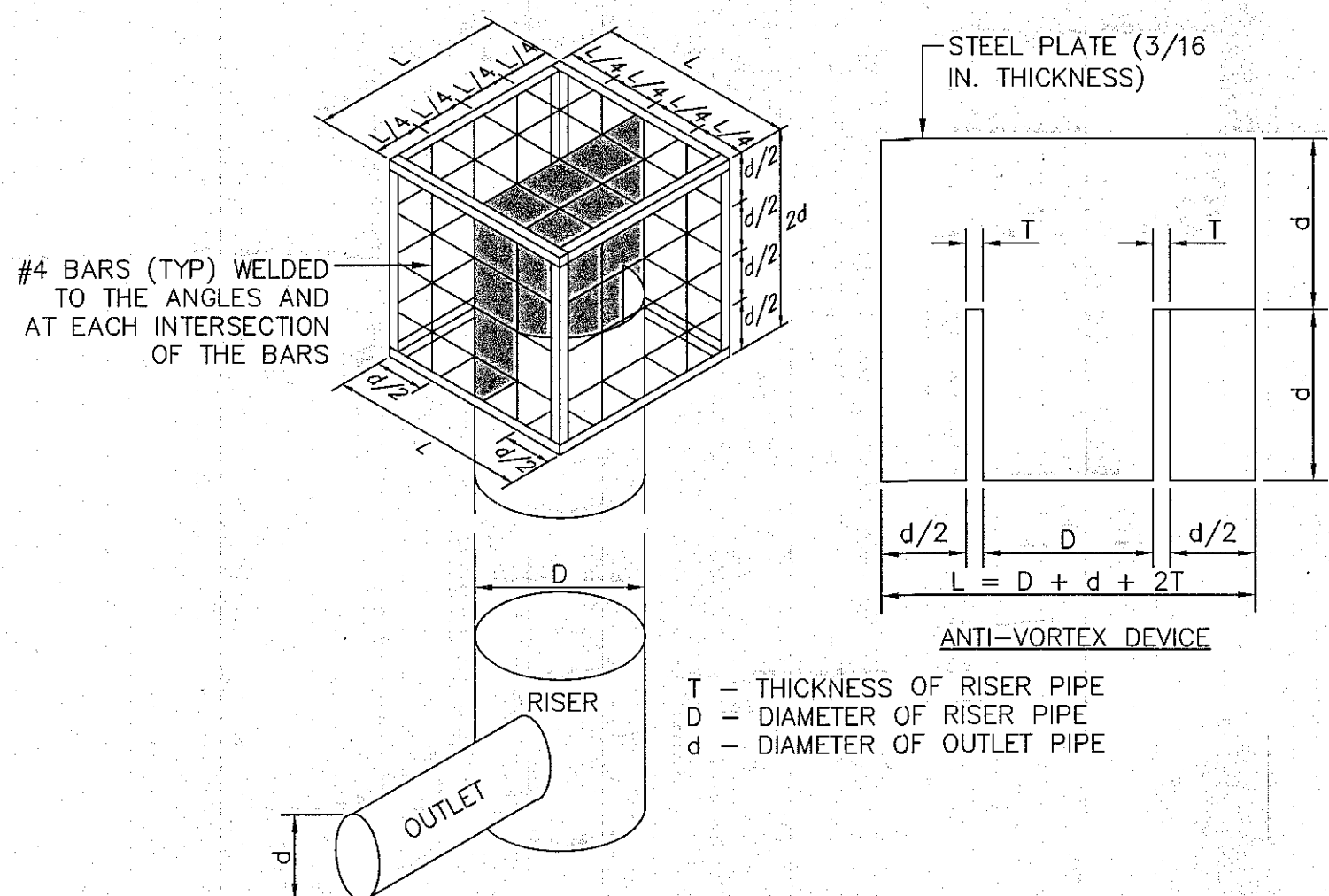
SEDIMENT BASIN SHALL BE INSPECTED ON AT LEAST A WEEKLY BASIS AND AFTER EACH RUNOFF EVENT.

ACCESS FOR SEDIMENT REMOVAL AND OTHER REQUIRED MAINTENANCE ACTIVITIES SHALL BE PROVIDED.

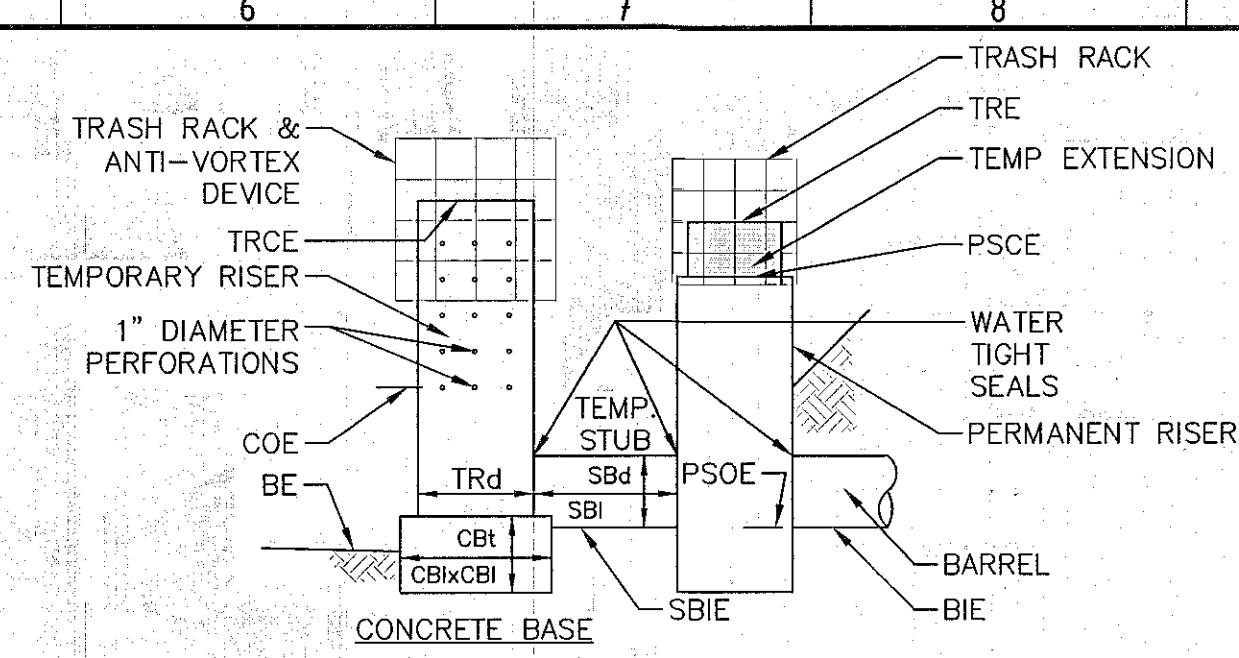
A CLEAN OUT STAKE SHALL BE PLACED NEAR THE CENTER OF EACH BASIN. ACCUMULATED SEDIMENT SHALL BE REMOVED WHEN IT HAS REACHED THE CLEAN OUT ELEVATION ON THE STAKE AND THE BASIN RESTORED TO ITS ORIGINAL DIMENSIONS. DISPOSE OF MATERIALS REMOVED FROM THE BASIN IN THE MANNER DESCRIBED IN THE E&S PLAN.

BASIN EMBANKMENTS, SPILLWAYS, AND OUTLETS SHALL BE CHECKED 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 INSIDE THE BASIN STABILIZED BEFORE CONVERSION TO A STORMWATER MANAGEMENT FACILITY. THE DEVICE SHOWN IN STANDARD CONSTRUCTION DETAIL #7-16 MAY BE USED TO DEWATER SATURATED SEDIMENT PRIOR TO ITS REMOVAL. ROCK FILTERS SHALL BE ADDED AS NECESSARY.

STANDARD CONSTRUCTION DETAIL #7-8
SEDIMENT BASIN DETENTION POND EMBANKMENT AND SPILLWAY DETAILS
NOT TO SCALE



STANDARD CONSTRUCTION DETAIL #7-5
TRASH RACK AND ANTI-VORTEX DEVICE
NOT TO SCALE



BASIN NO.	BOTTOM ELEV BE (FT)	TEMPORARY RISER			PERFORATIONS				CONCRETE BASE		
		DIA TRD (IN)	CREST ELEV OF TIRE (FT)	MAT'L	LOWEST ROW OF HOLES (FT)	NO. OF ROWS**	NO. OF HOLES PER ROW	VERTICAL SPACING OF ROWS (FT)	LENGTH CBI (IN)	WIDTH CBW (IN)	THICK. CBT (IN)
1	1184.00	48	1187.00	CMP	1185.00	5	5	0.50	96	96	12

BASIN NO.	TEMPORARY STUB				PERMANENT STRUCTURE					BARREL INLET ELEV BIE (FT)
	DIA SBD (IN)	INVERT ELEV SBIE (FT)	MAT'L	LENGTH SBI (SBI)	CREST ELEV PSCE (FT)	OPENING LENGTH PSOI (IN)	OPENING WIDTH PSOW (IN)	OUTLET ELEV PSOE (FT)		
1	21	1181.00	CMP	10	1187.00	1187.50	4	2	1181.00	1181.00

* SEE STANDARD CONSTRUCTION DETAIL # 7-5, TRASH RACK & ANTI-VORTEX DEVICE AND STANDARD CONSTRUCTION DETAIL # 7-7, SEDIMENT BASIN TEMPORARY RISER. TOP OF TEMPORARY EXTENSION RISER (TERE) TO BE EQUAL TO OR ABOVE TEMPORARY RISER CREST ELEVATION (TRCE) AND 6 INCHES (MINIMUM) BELOW CREST OF EMERGENCY SPILLWAY. REMOVE FLAT GRATE FROM PERMANENT RISER FOR AS LONG AS BASIN FUNCTIONS AS SEDIMENT REMOVAL BMP.

** LOWEST ROW OF HOLES AT SEDIMENT CLEAN-OUT ELEVATION.

CONTRACTOR SHALL PROVIDE 2 PERFORATIONS IN EACH ORIFICE ROW @ 1185.50, 1186.00, 1186.50, 1187.00 & 1187.50 FOR BASIN 1 RISER.

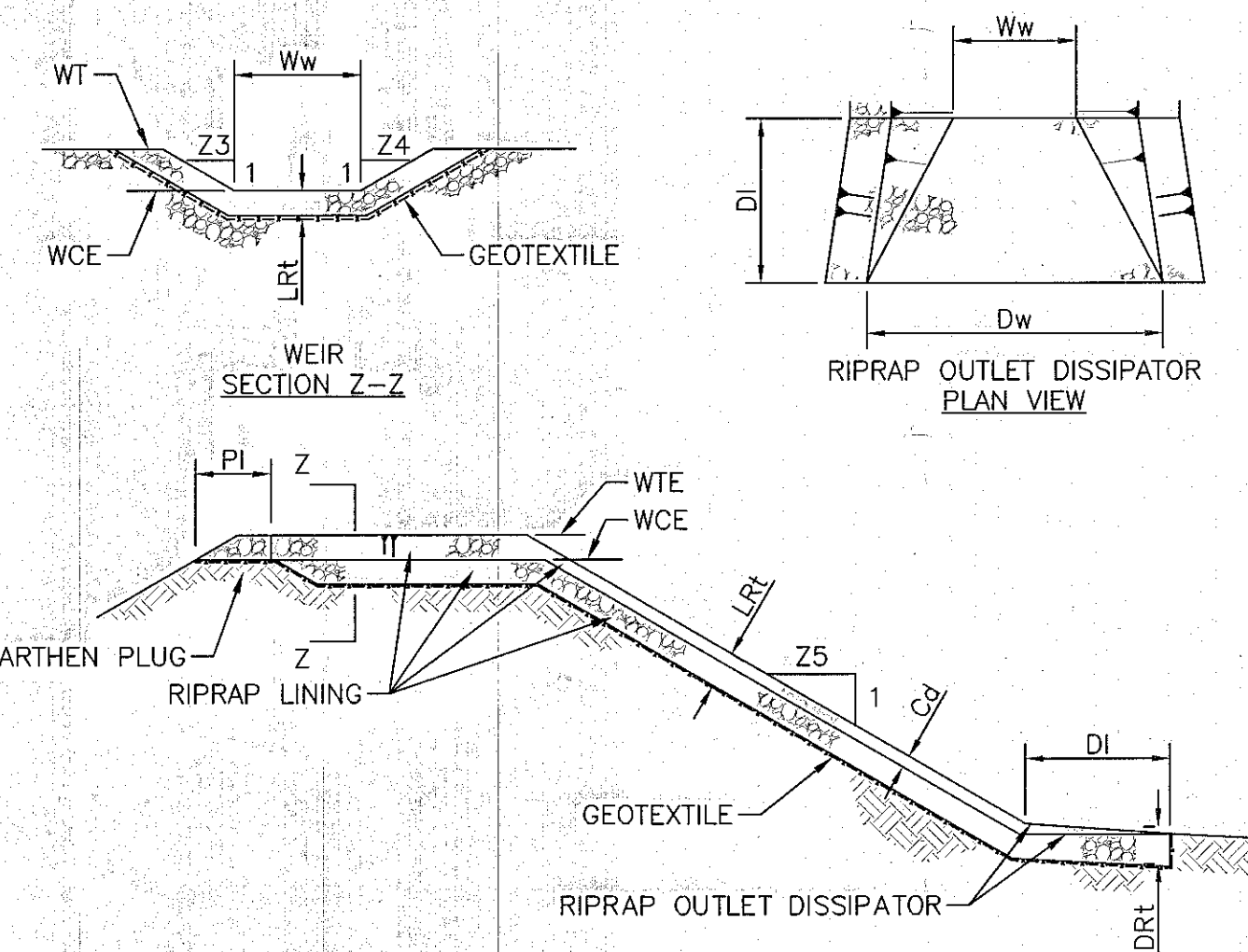
MINIMUM 2 #8 BARS PLACED AT RIGHT ANGLES AND PROJECTING THROUGH SIDES OF RISER TO ANCHOR IT TO CONCRETE BASE. REBARS SHALL PROJECT A MINIMUM OF 1/4 RISER DIAMETER BEYOND OUTSIDE OF RISER.

CONCRETE BASE SHALL BE POURED IN SUCH A MANNER TO INSURE THAT CONCRETE FILLS BOTTOM OF RISER TO INVERT OF THE OUTLET PIPE TO PREVENT RISER FROM BREAKING AWAY FROM THE BASE. MINIMUM BASE WIDTH EQUALS 2 X RISER DIAMETER.

EMBEDDED SECTION OF ALUMINUM OR ALUMINIZED PIPE SHALL BE PAINTED WITH ZINC CHROMATE OR EQUIVALENT.

REPAIR CLOGGED OR DAMAGED SPILLWAYS IMMEDIATELY. REMOVE TRASH AND OTHER DEBRIS FROM THE BASIN AND RISER.

SEDIMENT BASIN TEMPORARY RISER #7-9
NOT TO SCALE

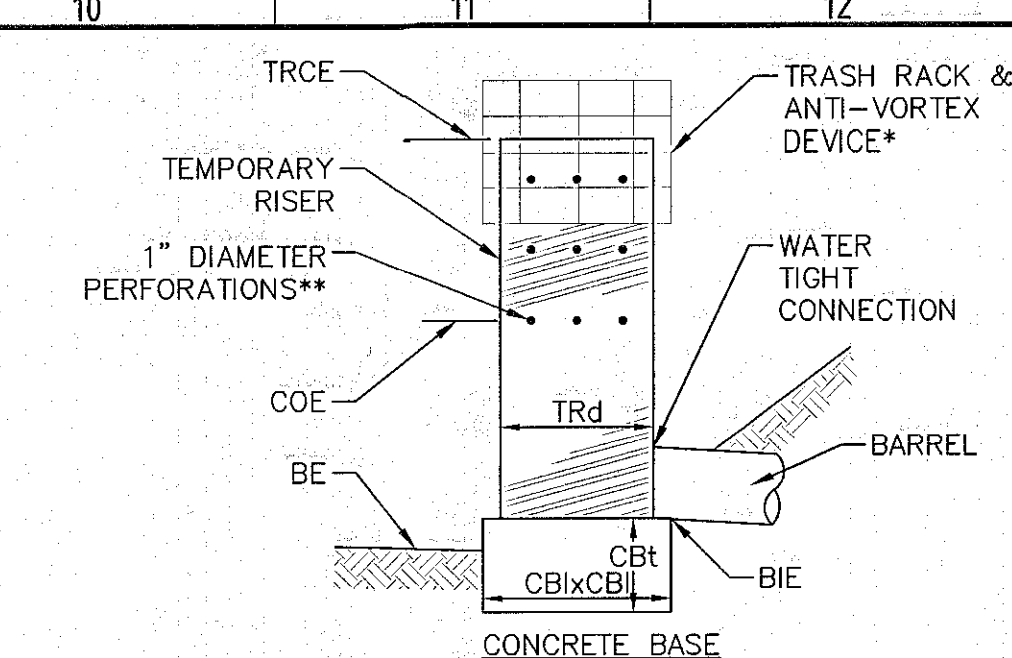


EMBANKMENT SECTION ALONG EMERGENCY SPILLWAY													
BASIN NO.	WEIR				LINING		CHANNEL		DISSIPATOR				
	Z3 (FT)	Z4 (FT)	TOP ELEV WTE (FT)	CREST ELEV WCE (FT)	WIDTH Ww (FT)	RIPRAP SIZE (R—)	RIPRAP THICK. (IN)	Z5 (FT)	DEPTH Cd (FT)	LENGTH DI (FT)	WIDTH Dw (FT)	RIPRAP SIZE (R—)	RIPRAP THICK. (IN)
01	3	3	1189.50	1187.50	50	5	12	3	1	29	50	5	12

NOTES:

DIMENSION PI SHALL BE 5' MINIMUM. DISPLACED RIPRAP WITHIN THE SPILLWAY AND/OR OUTLET CHANNEL SHALL BE REPLACED IMMEDIATELY.

STANDARD CONSTRUCTION DETAIL #7-12
SEDIMENT BASIN EMERGENCY SPILLWAY
WITH RIPRAP LINING
NOT TO SCALE



* SEE STANDARD CONSTRUCTION DETAIL #7-5, TRASH RACK AND ANTI-VORTEX DEVICE
** LOWEST ROW OF HOLES AT SEDIMENT CLEAN-OUT ELEVATION

BASIN NO.	DIA TRd (IN)	CREST ELEV TRCE (FT)	MAT'L	PERFORATIONS			CONCRETE BASE		BARREL INLET ELEV BIE (FT)
				NO. ROWS**	NO. HOLES PER ROW	VERT. SPACING OF ROWS (FT)	LENGTH AND WIDTH CBI (IN)	THICKNESS CBT (IN)	
1	48	1187.00	CMP	5	5	0.50	96	96	1181.00

NOTES:

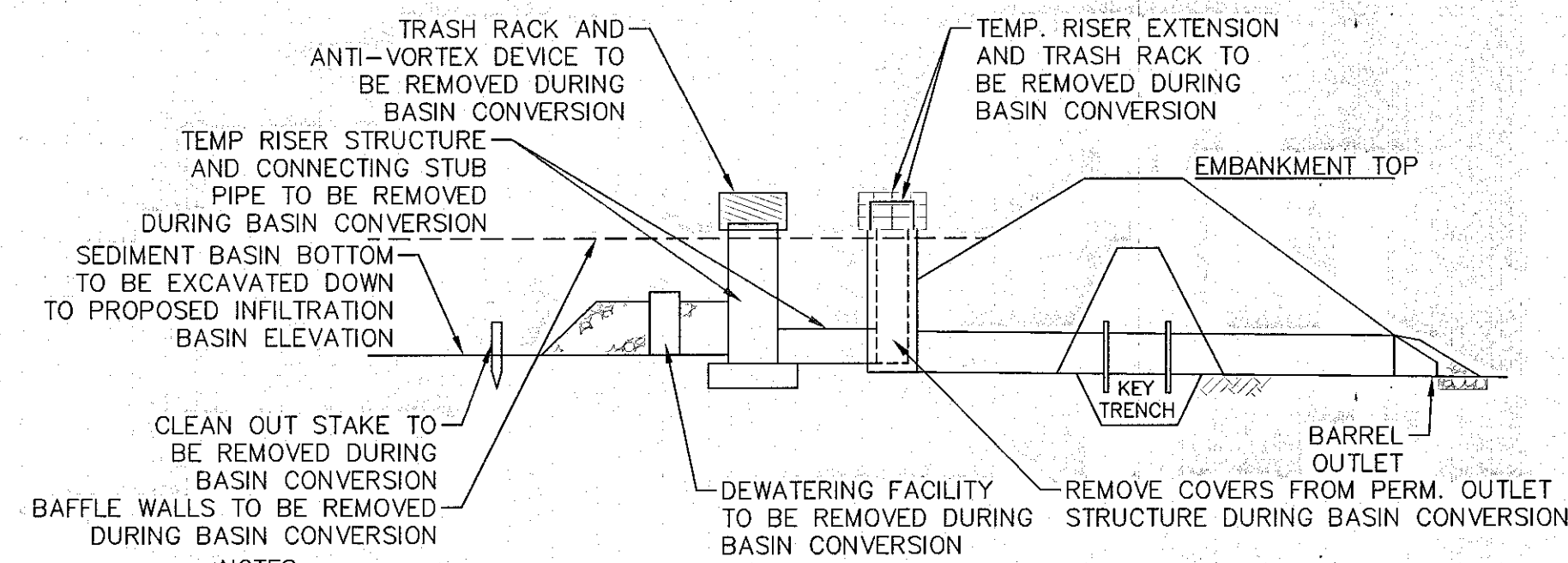
A MINIMUM OF 2-#8 REBAR SHALL BE PLACED AT RIGHT ANGLES AND PROJECTING THROUGH SIDES OF RISER TO ANCHOR IT TO CONCRETE BASE. REBAR SHALL PROJECT A MINIMUM OF 1/4 RISER DIAMETER BEYOND OUTSIDE OF RISER.

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. MINIMUM BASE WIDTH EQUALS 2 TIMES RISER DIAMETER.

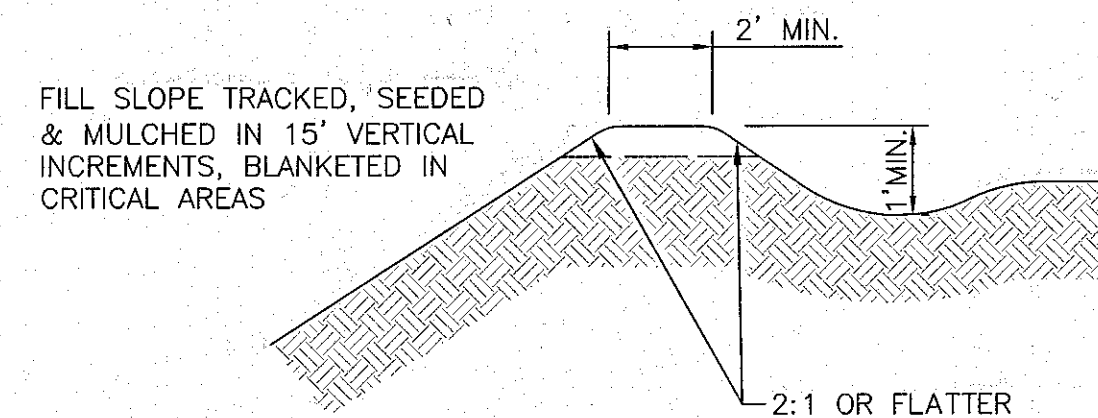
EMBEDDED SECTION OF ALUMINUM OR ALUMINIZED PIPE SHALL BE PAINTED WITH ZINC CHROMATE OR EQUIVALENT.

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

STANDARD CONSTRUCTION DETAIL #7-7
SEDIMENT BASIN TEMPORARY RISER
NOT TO SCALE



CONVERSION OF SEDIMENT BASIN TO
INFILTRATION BASIN DETAIL
NOT TO SCALE



TEMPORARY BERMS TO BE PLACED, MAINTAINED, AND ADJUSTED CONTINUOUSLY UNTIL 90% VEGETATIVE GROWTH IS ESTABLISHED ON THE EXTERIOR SLOPES WITH PERMANENT STORM DRAINAGE FACILITIES FUNCTIONING.

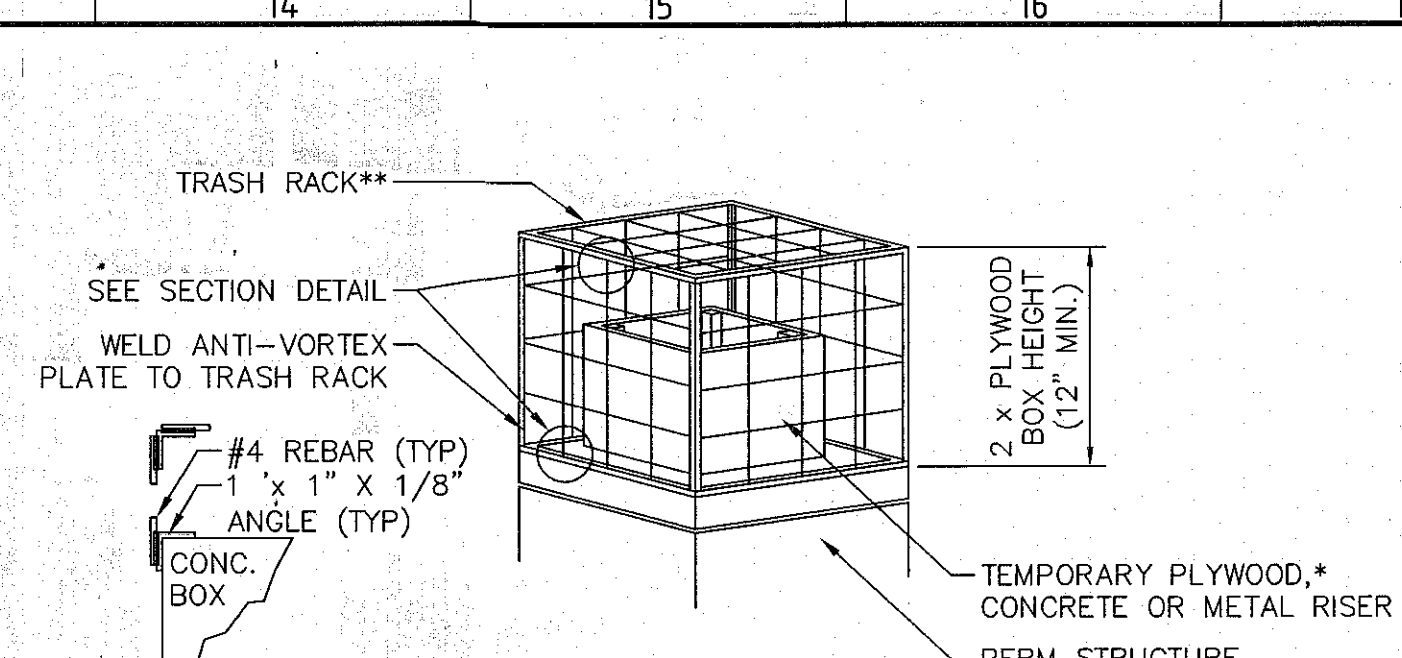
BERMS MUST OUTLET TO TEMPORARY SLOPE PIPES, PERMANENT SLOPE PIPES, TEMPORARY CHANNELS, OR PERMANENT CHANNELS.

CHANNEL BEHIND BERM SHALL HAVE POSITIVE GRADE TO OUTLET AND AN APPROPRIATE PROTECTIVE LINING

BERM SHALL BE ADEQUATELY COMPACTED TO PREVENT FAILURE

AN ACCEPTABLE ALTERNATIVE TO TOP-OF-SLOPE BERM IS TO CONTINUOUSLY GRADE THE TOP OF THE FILL TO DIRECT RUNOFF AWAY FROM THE OUTSLOPE TO A COLLECTOR CHANNEL, SEDIMENT TRAP, OR SEDIMENT BASIN.

TOP OF SLOPE BERMS
NOT TO SCALE



SECTION

* 3/4" PRESSURE TREATED PLYWOOD BOX WITH 2"x2" PRESSURE TREATED CORNER SUPPORTS, SET INTO 1-1/2" GRATE OFFSETS, CAULK ALL SEAMS TO FORM WATERTIGHT SEALS.

** TRASH RACK COMPOSED OF 1"x1/8" L (TYP.) AND #4 BARS (TYP.) WELDED TO THE ANGLES AND AT EACH INTERSECTION OF THE BARS; #4 BARS SPACED @ 1/2 THE DIAMETER OF THE BARREL MAX.

NOTES:

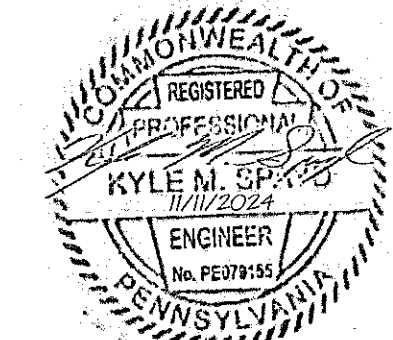
BOX MUST BE BOLTED, STRAPPED, OR OTHERWISE SECURED TO THE PERMANENT RISER.

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

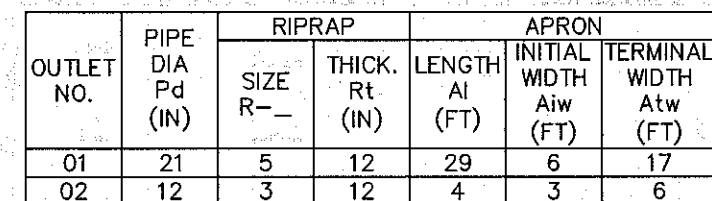
ALL JOINTS SHALL BE WATER TIGHT.

REPAIR CLOGGED OR DAMAGED SPILLWAYS IMMEDIATELY. REMOVE TRASH AND OTHER DEBRIS FROM THE BASIN AND RISER.

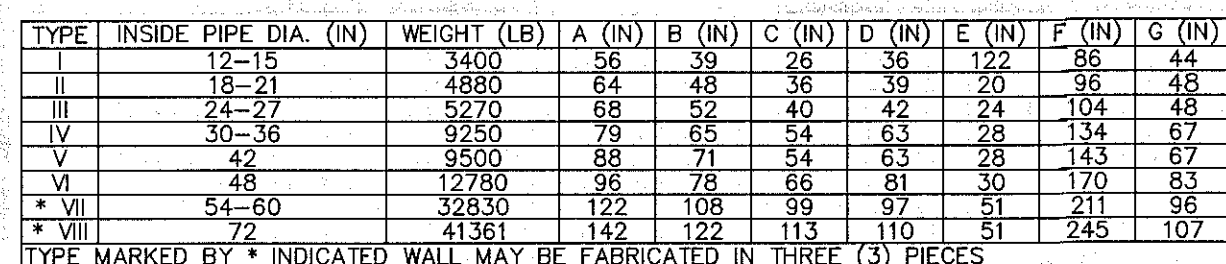
TEMPORARY EXTENSION RISER AND TRASH RACK
FOR PERMANENT OUTLET STRUCTURE #7-10
NOT TO SCALE



5	11/4/2024	Updated per Mercer Co Regional Planning Commission email from Nov 1, 2024	A.N.	J.C.S.	K.M.S.
4	9/19/2024	Updated per Mercer Co Regional Planning Commission meeting from July 31, 2024	A.N.	J.C.S.	K.M.S.
3	1/17/2024	Updated per Mercer CCD Review Letter Dated Dec 19, 2023	A.N.	J.C.S.	K.M.S.
2	11/6/2023	Updated per Mercer CCD Verbal Comments on Nov 2, 2023	A.N.	J.C.S.	K.M.S.
1	10/11/2023	Updated per Mercer CCD Review Letter Dated Sept 12, 2023	A.N.	J.C.S.	K.M.S.
0	6/30/2023	Preliminary Land Development Plan - Issued for Permitting	A.N.	J.C.S.	K.M.S.
REV.	DATE	DESCRIPTION	PREPARED	CHECKED	APPROVED
<div>CONTRACTOR'S LOGO wsp</div> <div>PROJECT: MC SOLAR PROJECT WEST SALEM TOWNSHIP, PA 16125, USA</div> <div>FILE NAME:</div> <div>CLASSIFICATION: ANSI D</div> <div>FORMAT: AS SHOWN</div> <div>SCALE: AS SHOWN</div> <div>PLOT SCALE:</div> <div>SHEET: 211</div> <div>UTILIZATION SCOPE: SESC DETAILS-2</div> <div>Engineering & Construction VALIDATION</div> <div>VALIDATED BY</div> <div>VERIFIED BY</div> <div>COLLABORATORS</div> <div>CODE</div> <div>GROUP</div> <div>FUNCTION</div> <div>TYPE</div> <div>ISSUER</div> <div>COUNTRY</div> <div>TEC.</div> <div>PLANT</div> <div>SYSTEM</div> <div>PROGRESSIVE</div> <div>REVISION</div>					



STANDARD CONSTRUCTION DETAIL #9-2
RIPRAP APRON AT PIPE OUTLET
NO FLARED ENDWALL
NOT TO SCALE



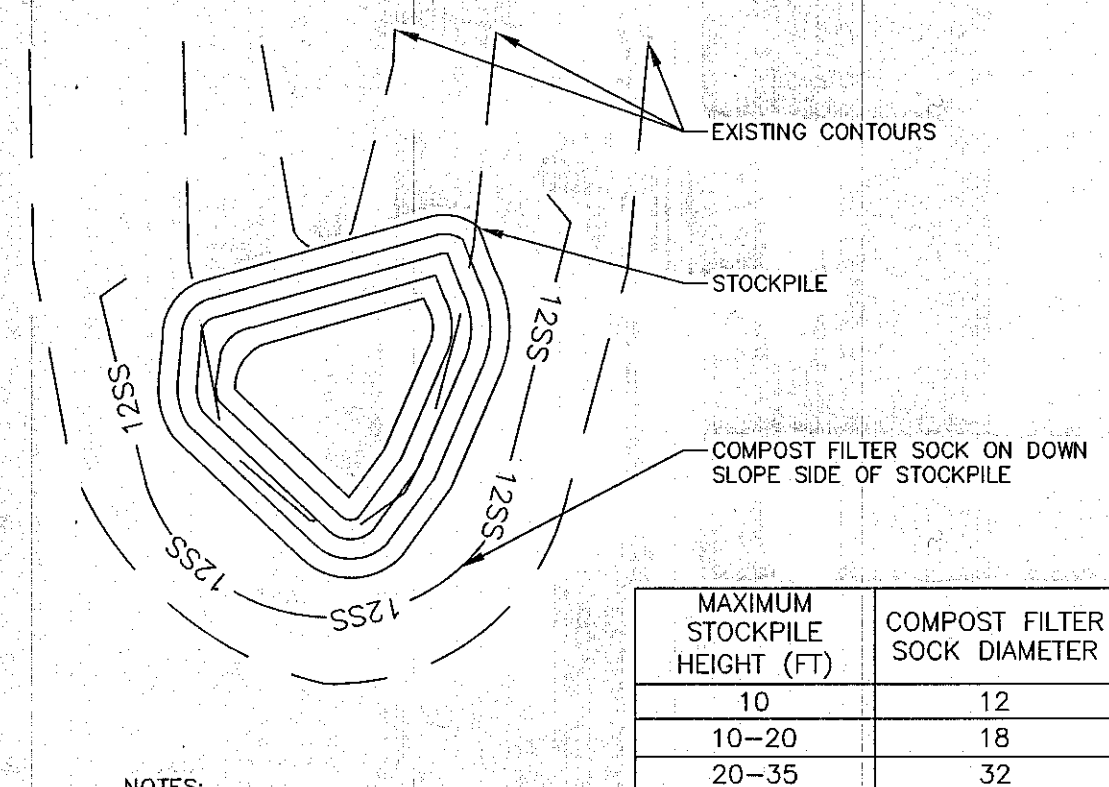
CONCRETE IS DESIGNED TO OBTAIN A STRENGTH OF 4000 PSI IN 28 DAYS.
 REINFORCING STEEL HAS A TENSILE STRENGTH OF 60,000 PSI.

NOT TO SCALE

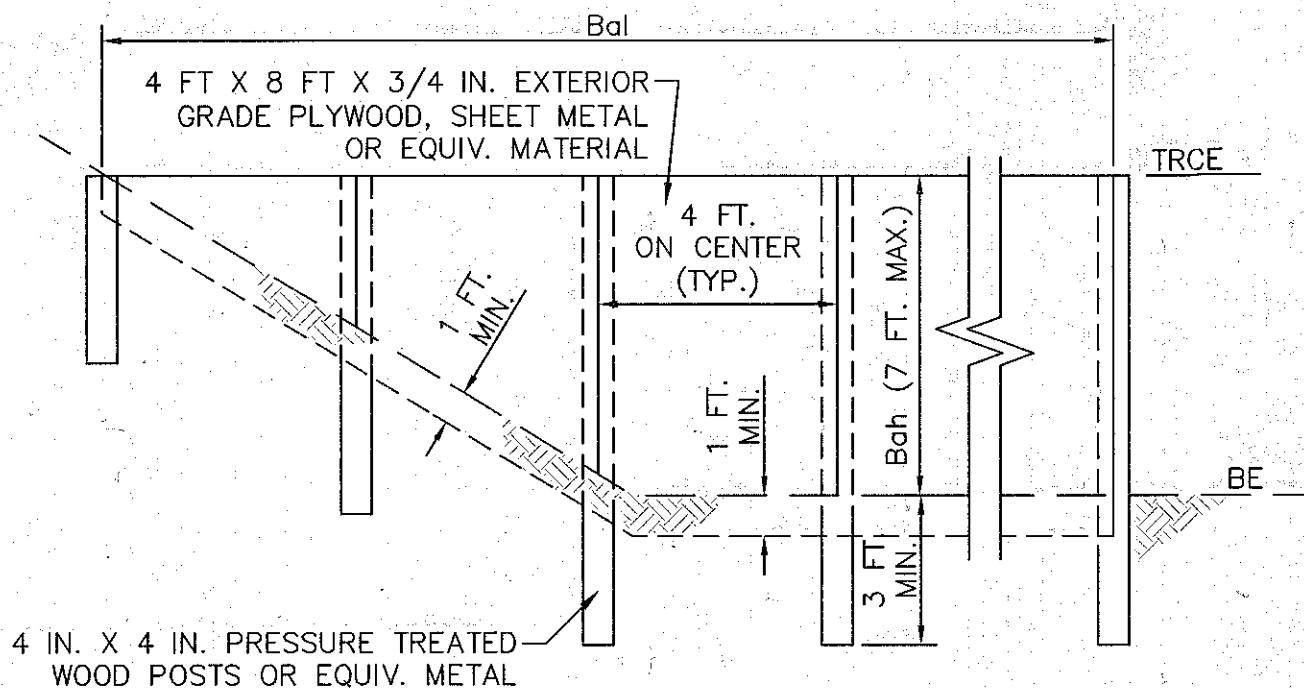
PROPERTY	TEST METHOD	MINIMUM STANDARD
AVG. WIDE WIDTH STRENGTH	ASTM D-4884	60 LB/IN
GRAB TENSILE	ASTM D-4632	205 LB
PUNCTURE	ASTM D-1833	110 LB
MULLEN BURST	ASTM D-3786	350 PSI
UV RESISTANCE	ASTM D-4355	70%
AOS % RETAINED	ASTM D-4751	80 SIEVE

Diagram of a 15' x 15' concrete basin. The basin is shown in cross-section with a sloped bottom. A pump is located at the bottom center, connected to a riser pipe that extends vertically. The riser pipe has a grid-like structure at the top. The basin is labeled with dimensions and materials: 15' x 15' CONCRETE BASIN, 2" x 2" VERTICAL WOOD SLATS AROUND OF BARREL @ 6" HORIZONTAL SPACING, 1/2" MIN. CLEAN OUT ELEV., 2' MIN., RISER, PUMP, AASHTO #57, and BASIN BOTTOM. The diagram also shows a cross-section of the basin wall and bottom, with a hatched pattern indicating the concrete structure.

SEDIMENT BASIN DEWATERING FACILITY #7-18

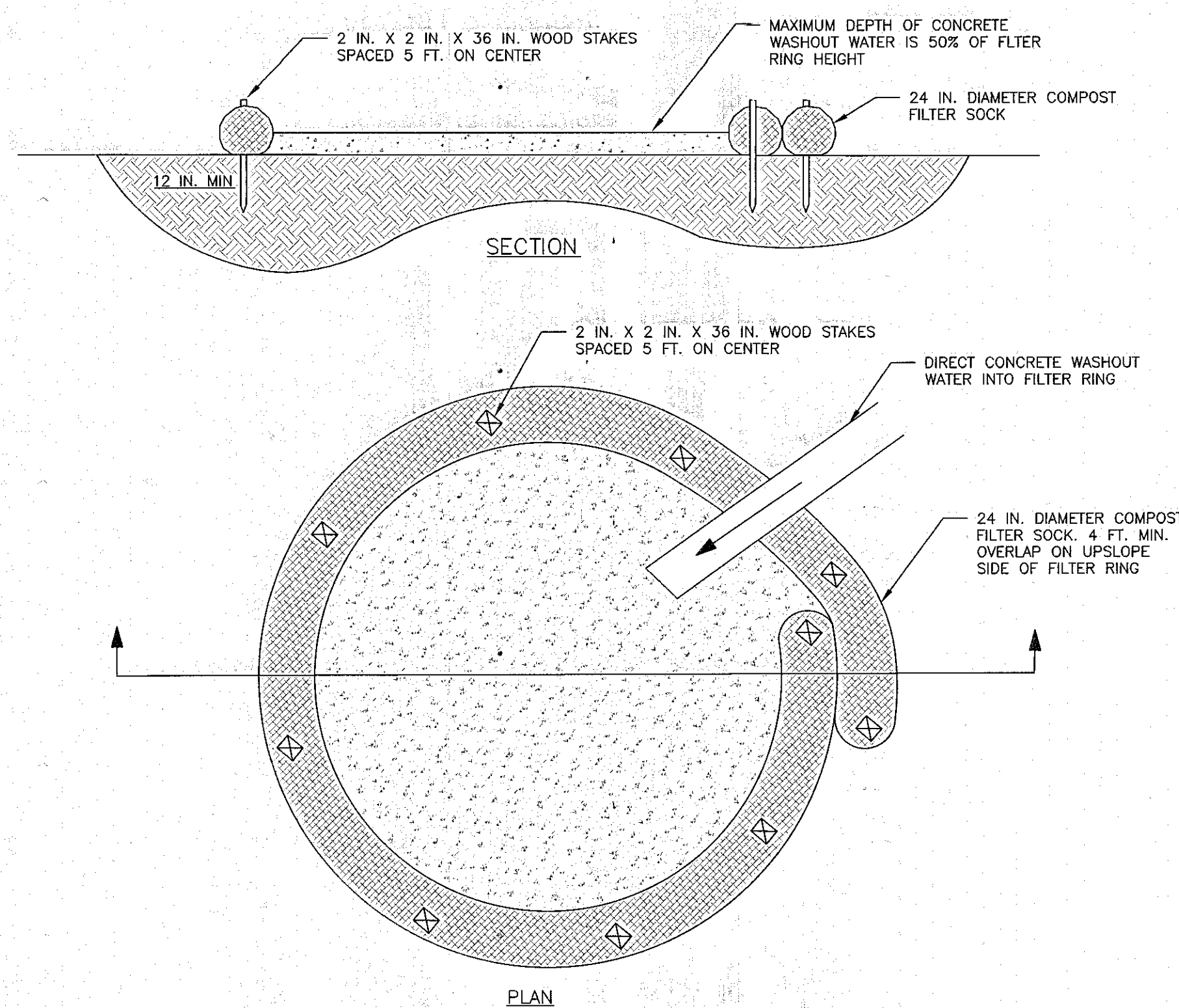


TOPSOIL STOCKPILE DETAIL
NOT TO SCALE

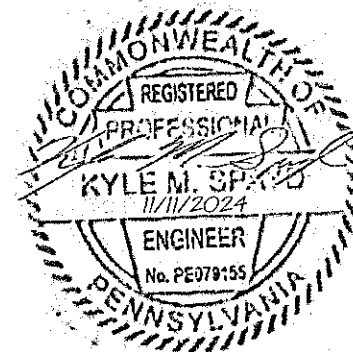


BASIN OR TRAP NO.	BAFFLE		TEMPORARY RISER	BOTTOM
	LENGTH Bal (FT)	HEIGHT Bah (FT)	CREST ELEV. TRCE (FT)	BOTTOM ELEV BE (FT)
01	947	3.00	1187.00	1184.00

STANDARD CONSTRUCTION DETAIL #7-14
NOT TO SCALE

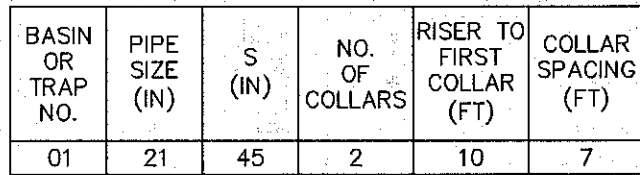


COMPOST FILTER SOCK WASHOUT NOT TO SCALE



5	11/4/2024	Updated per Mercer Co Regional Planning Commission email from Nov 1, 2024	A.N.	J.C.S.	K.M.S.
4	9/19/2024	Updated per Mercer Co Regional Planning Commission meeting from July 31, 2024	A.N.	J.C.S.	K.M.S.
3	1/17/2024	Updated per Mercer CCD Review Letter Dated Dec 19, 2023	A.N.	J.C.S.	K.M.S.
2	11/6/2023	Updated per Mercer CCD Verbal Comments on Nov 2, 2023	A.N.	J.C.S.	K.M.S.
-1	10/11/2023	Updated per Mercer CCD Review Letter Dated Sept 12, 2023	A.N.	J.C.S.	K.M.S.
0	6/30/2023	Preliminary Land Development Plan - Issued for Permitting	A.N.	J.C.S.	K.M.S.
REV.	DATE	DESCRIPTION	PREPARED	CHECKED	APPROVED

[illegible]



ALL COLLARS SHALL BE INSTALLED SO AS TO BE WATERTIGHT.
COLLAR SIZE AND SPACING SHALL BE AS INDICATED WITHIN TABLE.

Diagram illustrating the cross-section of a stormwater detention basin structure:

- BASIN BOTTOM ELEV 1183.00'**: The elevation of the basin bottom.
- 1' MINIMUM OF BASIN MEDIA**: The minimum thickness of the basin media layer.
- WASHED AASHTO #57 STONE (MIN SLOPE 0.5%)**: The material used for the basin walls and bottom, with a minimum slope of 0.5%.
- PERFORATED 4" HDPE PIPE**: The pipe used for water discharge from the basin.
- MIN. 4-6"**: The minimum diameter of the perforated pipe.
- EXISTING SUBGRADE**: The ground surface beneath the basin structure.

The diagram illustrates the cross-section of a bio-retention wall. Key components and labels include:

- BIO-RETENTION SWALE**: The area at the base of the wall.
- FENCE PANEL**: The vertical structure of the wall.
- FENCE POST**: The vertical support for the fence panel.
- BOTTOM OF SWALE**: The base level of the swale.
- EXTEND PAST INTO CONC. 24" MIN.**: Requirement for the reinforcement to extend into the concrete.
- ED MIN. EMBEDMENT DEPTH BELOW BIO-RETENTION SWALE, PER SCHEDULE**: The required embedment depth of the reinforcement.
- VERTICAL BARS PER SCHEDULE DOUBLE TIES**: The reinforcement bars in the wall.
- DBL. TIES @ T&B OF POST AS SHOWN**: Double ties at the top and bottom of the post.
- #3 TIES @ 4" O.C. WHERE REINF. IS REQUIRED PER SCHEDULE**: The spacing of the reinforcement ties.
- PER FOOTING SCHEDULE**: Reference to the footing reinforcement schedule.
- PER SCHEDULE**: General reference to the reinforcement schedule.
- 3" CL. MIN.**: Minimum 3-inch clear spacing between reinforcement bars.
- 3" CL.**: 3-inch clear spacing between reinforcement bars.
- TO TOP OF NEXT REINFORC. SCHEDULE**: Vertical extent of the reinforcement.

Technical drawing of a fence assembly showing a cross-section with labels for various components and dimensions.

Labels and Dimensions:

- 10'-0" O.C. (MAX.)
- 10'-0" O.C. (MAX.)
- 10'-0" O.C. (MAX.)
- BARBED WIRE TOP
- TOP RAIL BLACK VINYL COATED
- 12"
- 6'-0" NOM.
- BRACE RAIL
- 2" MESH #9 USS GAGE STEEL (GALV.)
- TRUSS ROD
- CORNER POST
- 3'-0" (TYP)
- 6" (TYP)
- 16" DIA.
- 12" DIA.
- 12" DIA.
- 16" DIA.
- 1" WASH (TYP)
- FINISH GRADE
- 3,500 P.S.I. (MIN.) CONCRETE - TYPICAL

NOTE: CONTRACTOR TO VERIFY EXACT FENCE SPECIFICATION AND GATE LOCATION WITH OWNER PRIOR TO INSTALLATION.

(TYP. AT CORN AND GATE POST)

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

1. 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.
2. BAGS SHALL BE LOCATED IN WELL-VEGETATED (GRASSY) AREA, AND DISCHARGE INTO STABLE, EROSION RESISTANT AREA. THIS IS TO PREVENT EROSION OF THE DISCHARGE POINT 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.
3. BAGS SHALL NOT BE PLACED DIRECTLY IN WETLAND AREAS WITHOUT AN APPROVED STABILIZATION MATERIAL UNDERNEATH IT.
4. A NON-TOXIC 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 INTAKE SHALL BE FLOATING AND SCREENED.
7. FILTER BAGS SHALL BE INSPECTED DAILY. IF A PROBLEM IS DETECTED, PUMPING SHALL CEASE IMMEDIATELY AND NOT RESUME UNTIL THE PROBLEM IS CORRECTED.
8. PUMPED WATER FILTER BAGS SHALL NOT BE PLACED IN DELINEATED WETLANDS.

1. MAXIMUM DRAINAGE AREA = 1/2 ACRE.
2. INLET PROTECTION SHALL NOT BE REQUIRED FOR INLET TRIBUTARY TO SEDIMENT BASIN OR TRAP. BERMS SHALL BE REQUIRED FOR ALL INSTALLATIONS.
3. ROLLED EARTHEN BERM IN ROADWAY SHALL BE MAINTAINED UNTIL ROADWAY IS STONED. ROAD SUBBASE BERM SHALL BE MAINTAINED UNTIL ROADWAY IS PAVED. EARTHEN BERM IN CHANNELED CULVERT SHALL BE MAINTAINED UNTIL PERMANENT STABILIZATION IS COMPLETED OR REMAINS PERMANENTLY.
4. AT A MINIMUM, THE FABRIC SHALL HAVE A MINIMUM GRASS TENSILE STRENGTH OF 120 LBS, A MINIMUM BURST STRENGTH OF 200 PSI, AND A MINIMUM TRAPEZOIDAL TEAR STRENGTH OF 50 LBS. FILTER BAGS SHALL BE CAPABLE OF TRAPPING ALL PARTICLES NOT PASSING A NO. 40 SIEVE.
5. INLET FILTER BAGS SHALL BE INSPECTED ON A WEEKLY BASIS AND AFTER EACH RUNOFF EVENT. BAGS SHALL BE EMPTIED AND RINSED OR REPLACED WHEN HALF FULL OR WHEN FLOW CAPACITY HAS BEEN REDUCED 50% AS TO FLOODING OR BYPASSING OF THE INLET. DAMAGED OR CLOGGED BAGS SHALL BE REPLACED. SUPPLY BAGS SHALL BE MAINTAINED ON SITE FOR REPLACEMENT OF BAGS. ALL NEEDED REPAIRS SHALL BE INITIATED IMMEDIATELY AFTER THE INSPECTION. DISPOSE OF ACCUMULATED SEDIMENT AS WELL AS ALL USED BAGS ACCORDING TO THE PLAN NOTES.
6. DO NOT USE ON MAJOR PAVED ROADWAYS WHERE PONDING MAY CAUSE TRAFFIC HAZARDS.

The technical drawings illustrate the construction and installation of a bypassing inlet structure. The **ISOMETRIC VIEW** shows a rectangular structure with a cylindrical inlet pipe on the left. Dimensions include a width of 4 FT. and a length of 8 FT. A 2 FT. section at the top is labeled 'INLET GRATE'. A note indicates '1 IN. REBAR FOR BAG REMOVAL FROM INLET'. The **SECTION VIEW** shows a cross-section of the structure with a 1 FT. MIN. height and a 2:1 MAX (TYP.) slope. It labels the 'TOP OF CURB', 'STORE INLET', and 'BERM'. The **PLAN VIEW** shows the structure's footprint, including the 'CURB' and 'BERM'. A note states 'EXTEND BERM OVER CURB IF RUNOFF IS BYPASSING INLET ON LANDWARD SIDE'. The **INSTALLATION DETAIL** shows a close-up of the inlet pipe connection, featuring a 'SANDBAG, FILTER LOG, COMPOST SOCK, OR FILTER TUBE' and an 'EXPANSION RESTRAINT (4 IN. NYLON ROPE)'. A '2 IN X 2 IN. X 3/4 IN. RUBBER BLOCK' is also shown.

1. MAXIMUM DRAINAGE AREA = 1/2 ACRE.
2. INLET PROTECTION SHALL NOT BE REQUIRED FOR INLET TRIBUTARY TO SEDIMENT BASIN OR TRAP. BERMS SHALL BE REQUIRED FOR ALL INSTALLATIONS.
3. ROLLED EARTHEN BERM SHALL BE MAINTAINED UNTIL ROADWAY IS STONED. ROAD SUBBASE BERM SHALL BE MAINTAINED UNTIL ROADWAY IS PAVED. SIX INCH MINIMUM HEIGHT ASPHALT BERM SHALL BE MAINTAINED UNTIL ROADWAY SURFACE RECEIVES FINAL COAT.
4. AT A MINIMUM, THE FABRIC SHALL HAVE A MINIMUM GRASS TENSILE STRENGTH OF 120 LBS, A MINIMUM BURST STRENGTH OF 200 PSI, AND A MINIMUM TRAPEZOIDAL TEAR STRENGTH OF 50 LBS. FILTER BAGS SHALL BE CAPABLE OF TRAPPING ALL PARTICLES NOT PASSING A NO. 40 SIEVE.
5. INLET FILTER BAGS SHALL BE INSPECTED ON A WEEKLY BASIS AND AFTER EACH RUNOFF EVENT. BAGS SHALL BE EMPTIED AND RINSED OR REPLACED WHEN HALF FULL OR WHEN FLOW CAPACITY HAS BEEN REDUCED SO AS TO CAUSE FLOODING OR BYPASSING THE INLET. DAMAGED OR MISSING BAGS SHALL BE REPLACED. SUPPLY SHALL BE MAINTAINED ON SITE FOR REPLACEMENT OF BAGS. ALL NEEDED REPAIRS SHALL BE INITIATED IMMEDIATELY AFTER THE INSPECTION. DISPOSE OF ACCUMULATED SEDIMENT AS WELL AS ALL USED BAGS ACCORDING TO THE PLAN NOTES.
6. DO NOT USE ON MAJOR PAVED ROADWAYS WHERE PONDING MAY CAUSE TRAFFIC HAZARDS.

UPSTREAM EDGE TO BE AT SAME ELEVATION AS LEVEL SPREADER

SLOPE NOT TO EXCEED 8%

VEGETATION PER PLANTING REQUIREMENTS

MINIMUM TOPSOIL DEPTH 8"

2" DROP

GRAVEL ACCESS ROAD

LINE SIDES AND BOTTOM OF TRENCH WITH NON-WOVEN GEOTEXTILE FABRIC

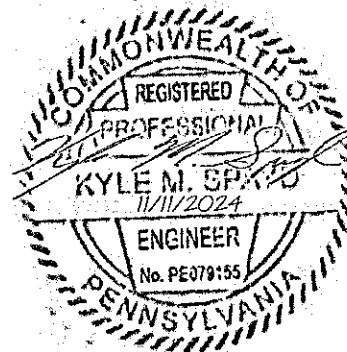
1' WIDE X 2' DEEP GRAVEL DIAPHRAGM

30' MIN

GRADED, UNCOMPACTED, OR LIGHTLY COMPACTED SUBGRADE

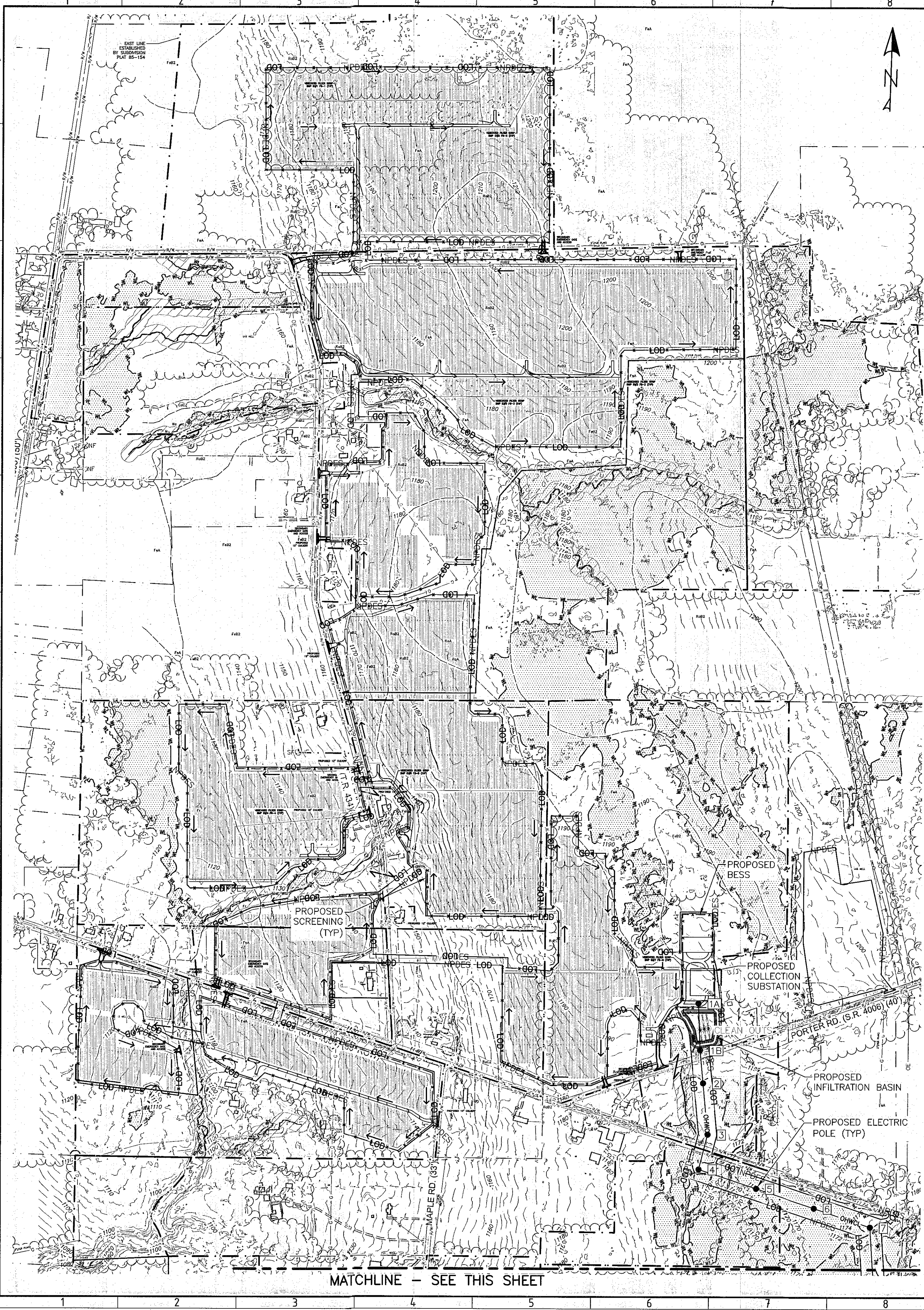
1. BEGIN FILTER STRIP CONSTRUCTION ONLY WHEN THE UPGRADEMENT SITE HAS BEEN SUFFICIENTLY STABILIZED AND TEMPORARY EROSION AND SEDIMENT CONTROL MEASURES ARE IN PLACE. (EROSION AND SEDIMENT CONTROL METHODS SHALL ADHERE TO THE PENNSYLVANIA DEPARTMENT OF ENVIRONMENTAL PROTECTION'S EROSION AND SEDIMENT POLLUTION CONTROL PROGRAM MANUAL (REV. 2000 OR LATEST EDITION). THE STRIP SHOULD BE INSTALLED AT A TIME OF THE YEAR WHEN SUCCESSFUL ESTABLISHMENT WITHOUT IRRIGATION IS MOST LIKELY HOWEVER, TEMPORARY IRRIGATION MAY BE NEEDED IN PERIODS OF LITTLE RAIN OR DROUGHT.
2. FOR PLANTED (NOT INDIGENOUS FILTER STRIPS) CLEAR AND GRUB SITE AS NEEDED. CARE SHOULD BE TAKEN TO DISTURB AS LITTLE EXISTING VEGETATION AS POSSIBLE. WHETHER IN THE DESIGNATED FILTER STRIP AREA OR IN ADJACENT AREAS, AND TO AVOID SOIL COMPACTION. GRADING A LEVEL SLOPE MAY REQUIRE REMOVAL OF EXISTING VEGETATION.
3. ROUGH GRADE THE FILTER STRIP AREA, INCLUDING THE BERM AT THE TOE OF THE SLOPE. IF PROPOSED. USE THE LIGHTEST, LEAST DISRUPTIVE EQUIPMENT TO AVOID EXCESSIVE COMPACTION AND/OR LAND DISTURBANCE.
4. CONSTRUCT LEVEL SPREADER DEVICE AT THE UPGRADEMENT EDGE OF THE STRIP. FOR GRAVEL TRENCHES, DO NOT COMPACT SUBGRADE (FOLLOW CONSTRUCTION SEQUENCE FOR INFILTRATION TRENCH).
5. FINE GRADE THE FILTER STRIP AREA. ACCURATE GRADING IS CRUCIAL FOR FILTER STRIPS. EVEN THE SMALLEST IRREGULARITIES MAY COMPROMISE SHEET FLOW CONDITIONS FROM THE RUNOFF.
6. SEED OR SOD, AS DESIRED. PLANT MORE SUBSTANTIAL VEGETATION, SUCH AS TREES AND SHRUBS, IF PROPOSED IF SOD IS PROPOSED, PLACE TIES TIGHTLY ENOUGH TO AVOID GAPS AND STAGGER THE ENDS TO PREVENT CHIPPING ALONG THE STRIP. USE A ROLLER ON SOD TO PREVENT AIR POCKETS BETWEEN THE SOD AND SOIL FROM FORMING.
7. CONCURRENT WITH #6, STABILIZE SEEDED FILTER STRIPS WITH APPROPRIATE PERMANENT SOIL STABILIZATION METHODS, SUCH AS EROSION CONTROL MATTING OR BIKOTES. EROSION CONTROL FOR SEEDED FILTER STRIPS SHOULD BE MAINTAINED FOR AT LEAST THE FIRST 75 DAYS FOLLOWING THE FIRST STORM EVENT OF THE SEASON.
8. ONCE THE FILTER STRIP IS SUFFICIENTLY STABILIZED, REMOVE TEMPORARY EROSION AND SEDIMENT CONTROLS. IT IS VERY IMPORTANT THAT FILTRATION BE ALLOWED TO BEGIN ESTABLISHED BEFORE RECEIVING UPLAND STORMWATER FLOW. ONE FULL GROWING SEASON IS THE RECOMMENDED MINIMUM TIME FOR ESTABLISHMENT. SOME SEED MIXTURES MAY REQUIRE A LONGER TIME PERIOD TO BECOME ESTABLISHED.
9. ENSURE ALL FILTER STRIP AREAS UNDERGO SOIL AMENDMENT AND RESTORATION TO PROVIDE THE NECESSARY INFILTRATION REQUIRED FOR THE SITE.

VEGETATIVE FILTER STRIP INFORMATION							
FILTER STRIP ID#	WATERSHED	LATITUDE	LONGITUDE	AREA	PLANTINGS	SEED MIX	VOLUME REDUCTION
FS-1	DP001	41.427930	-80.441660	305,163	PER SHEET 310	PER SHEET 003	36,925
FS-2	DP002	41.428880	-80.437850	114,608	PER SHEET 310	PER SHEET 003	17,498
FS-3	DP003	41.423430	-80.437210	155,630	PER SHEET 310	PER SHEET 003	18,831
FS-4	DP004	41.415190	-80.441820	158,345	PER SHEET 310	PER SHEET 003	19,160
FS-5	DP004	41.415940	-80.439800	13,911	PER SHEET 310	PER SHEET 003	1,683
FS-6	DP005	41.412750	-80.432740	18,379	PER SHEET 310	PER SHEET 003	2,224



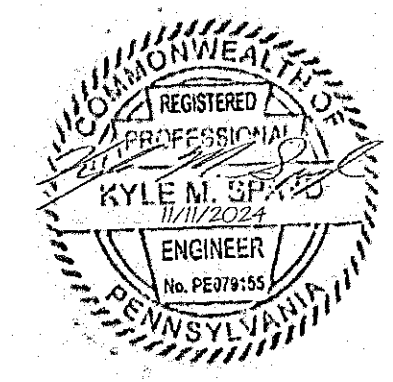
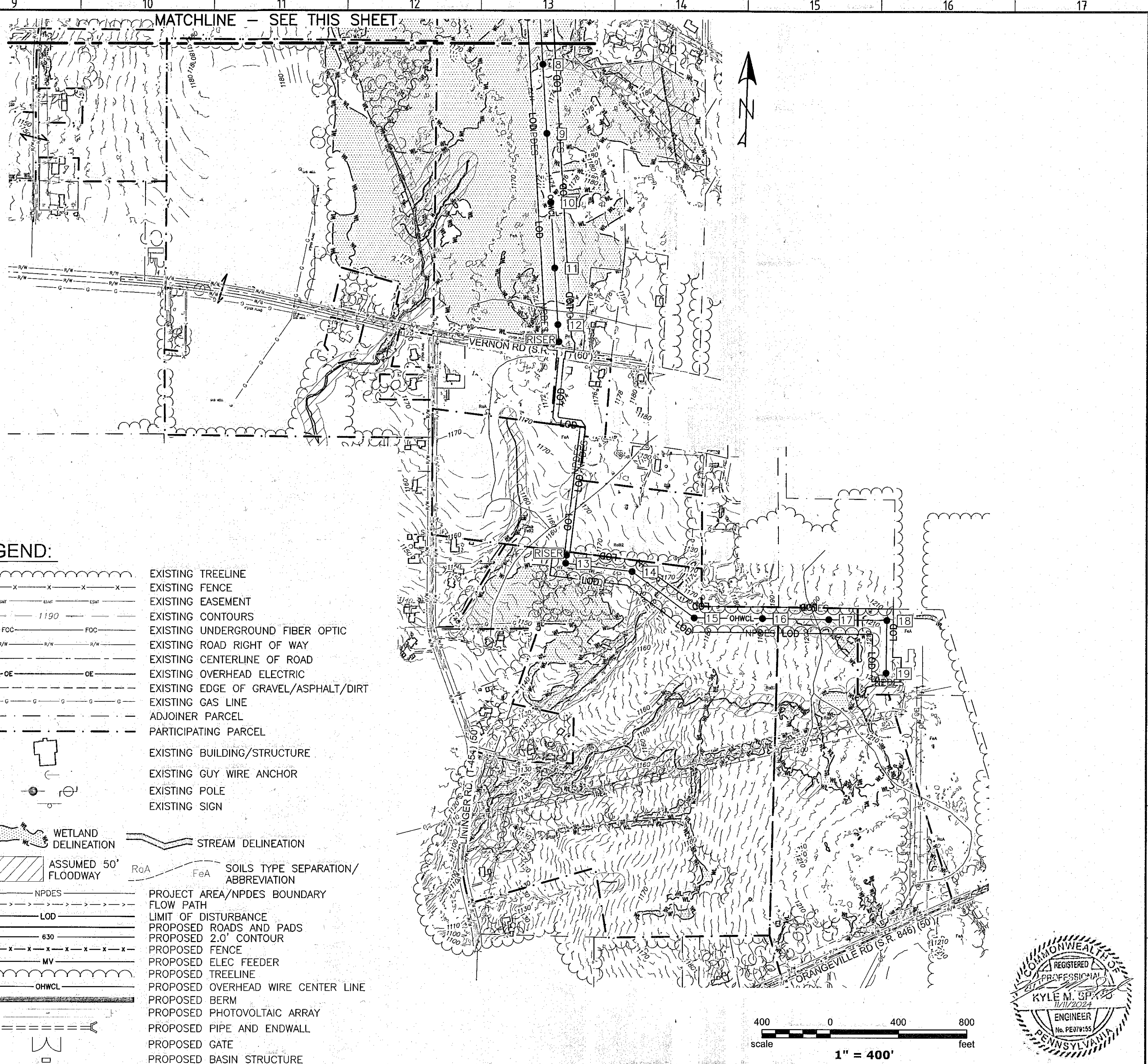
5	11/4/2024	Updated per Mercer Co Regional Planning Commission email from Nov 1, 2024	A.N.	J.C.S.	K.M.S.
4	9/19/2024	Updated per Mercer Co Regional Planning Commission meeting from July 31, 2024	A.N.	J.C.S.	K.M.S.
3	1/17/2024	Updated per Mercer CCD Review Letter Dated Dec 19, 2023	A.N.	J.C.S.	K.M.S.
2	11/6/2023	Updated per Mercer CCD Verbal Comments on Nov 2, 2023	A.N.	J.C.S.	K.M.S.
1	10/11/2023	Updated per Mercer CCD Review Letter Dated Sept 12, 2023	A.N.	J.C.S.	K.M.S.
0	6/30/2023	Preliminary Land Development Plan - issued for Permitting	A.N.	J.C.S.	K.M.S.
REV	DATE	DESCRIPTION	PREPARED	CHECKED	APPROVED

[illegible]

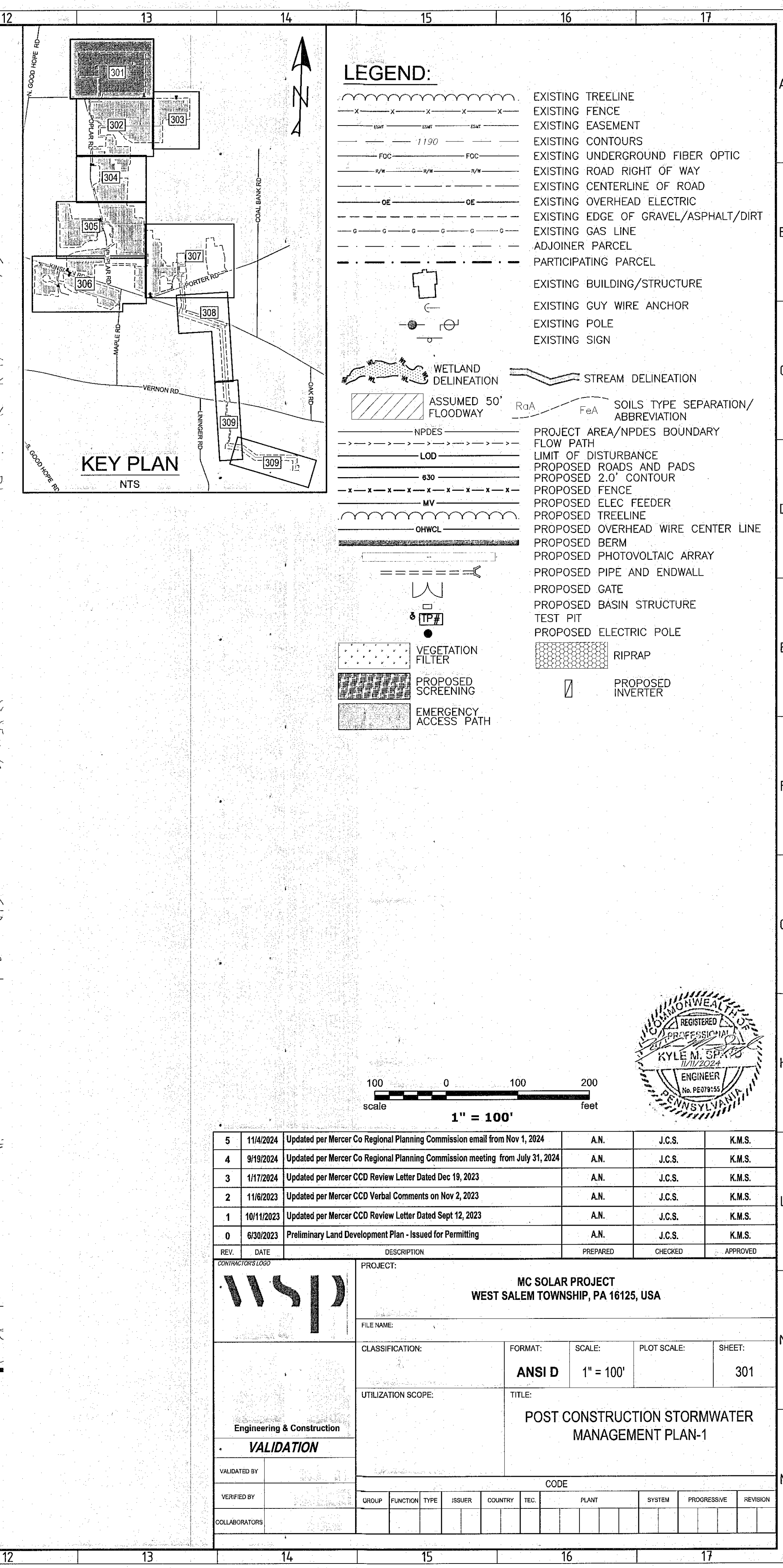


LEGEND:

- EXISTING TREELINE
- EXISTING FENCE
- EXISTING EASEMENT
- EXISTING CONTOURS
- EXISTING UNDERGROUND FIBER OPTIC
- EXISTING ROAD RIGHT OF WAY
- EXISTING CENTERLINE OF ROAD
- EXISTING OVERHEAD ELECTRIC
- EXISTING EDGE OF GRAVEL/ASPHALT/DIRT
- EXISTING GAS LINE
- ADJOINER PARCEL
- PARTICIPATING PARCEL
- EXISTING BUILDING/STRUCTURE
- EXISTING GUY WIRE ANCHOR
- EXISTING POLE
- EXISTING SIGN
- WETLAND DELINEATION
- ASSUMED 50' FLOODWAY
- NPDES
- LOD
- 630
- MV
- OHWC
- VEGETATION FILTER
- PROPOSED SCREENING
- EMERGENCY ACCESS PATH
- STREAM DELINEATION
- SOILS TYPE SEPARATION/ ABBREVIATION
- PROJECT AREA/NPDES BOUNDARY
- FLOW PATH
- LIMIT OF DISTURBANCE
- PROPOSED ROADS AND PADS
- PROPOSED 2.0' CONTOUR
- PROPOSED FENCE
- PROPOSED ELEC FEEDER
- PROPOSED TREELINE
- PROPOSED OVERHEAD WIRE CENTER LINE
- PROPOSED BERM
- PROPOSED PHOTOVOLTAIC ARRAY
- PROPOSED PIPE AND ENDWALL
- PROPOSED GATE
- PROPOSED BASIN STRUCTURE
- TEST PIT
- PROPOSED ELECTRIC POLE
- RIPRAP
- PROPOSED INVERTER




5	11/14/2024	Updated per Mercer Co Regional Planning Commission email from Nov 1, 2024	A.N.	J.C.S.	K.M.S.
4	9/19/2024	Updated per Mercer Co Regional Planning Commission meeting from July 31, 2024	A.N.	J.C.S.	K.M.S.
3	1/17/2024	Updated per Mercer CCD Review Letter Dated Dec 19, 2023	A.N.	J.C.S.	K.M.S.
2	11/6/2023	Updated per Mercer CCD Verbal Comments on Nov 2, 2023	A.N.	J.C.S.	K.M.S.
1	10/11/2023	Updated per Mercer CCD Review Letter Dated Sept 12, 2023	A.N.	J.C.S.	K.M.S.
0	6/30/2023	Preliminary Land Development Plan - Issued for Permitting	A.N.	J.C.S.	K.M.S.
REV.	DATE	DESCRIPTION	PREPARED	CHECKED	APPROVED
CONTRACTORS: LOD			PROJECT: MC SOLAR PROJECT WEST SALEM TOWNSHIP, PA 16125, USA		
FILE NAME:			CLASSIFICATION:		
UTILIZATION SCOPE:			FORMAT:	SCALE:	PLOT SCALE:
			ANSI D	1" = 400'	300
Engineering & Construction			TITLE: OVERALL POST CONSTRUCTION STORMWATER MANAGEMENT PLAN		
VALIDATION			CODE		
VALIDATED BY			GROUP	FUNCTION	TYPE
VERIFIED BY			ISSUER	COUNTRY	TEC.
COLLABORATORS			PLANT	SYSTEM	PROGRESSIVE
			REVISION		



5	11/4/2024	Updated per Mercer Co Regional Planning Commission email from Nov 1, 2024	A.N.	J.C.S.	K.M.S.
4	9/19/2024	Updated per Mercer Co Regional Planning Commission meeting from July 31, 2024	A.N.	J.C.S.	K.M.S.
3	1/17/2024	Updated per Mercer CCD Review Letter Dated Dec 19, 2023	A.N.	J.C.S.	K.M.S.
2	11/6/2023	Updated per Mercer CCD Verbal Comments on Nov 2, 2023	A.N.	J.C.S.	K.M.S.
1	10/11/2023	Updated per Mercer CCD Review Letter Dated Sept 12, 2023	A.N.	J.C.S.	K.M.S.
0	6/30/2023	Preliminary Land Development Plan - Issued for Permitting	A.N.	J.C.S.	K.M.S.
REV.	DATE	DESCRIPTION	PREPARED	CHECKED	APPROVED

CONTRACTOR'S LOGO



PROJECT:

**MC SOLAR PROJECT
WEST SALEM TOWNSHIP, PA 16125, USA**

FILE NAME:

CLASSIFICATION:

FORMAT:
ANSI D

SCALE:
1" = 100'

PLOT SCALE:

SHEET:
301

UTILIZATION SCOPE:

**POST CONSTRUCTION STORMWATER
MANAGEMENT PLAN-1**

Engineering & Construction

VALIDATION

VALIDATED BY

VERIFIED BY

COLLABORATORS

CODE										
GROUP	FUNCTION	TYPE	ISSUER	COUNTRY	TIC	PLANT	SYSTEM	PROGRESSIVE	REVISION	

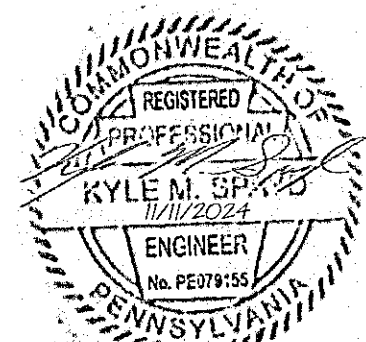
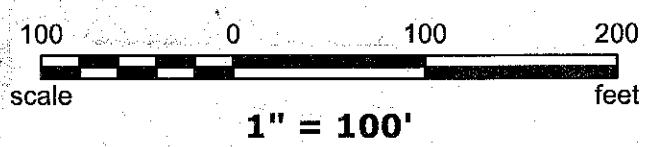
14
15
16
17

LEGEND:

- EXISTING TREELINE
- EXISTING FENCE
- EXISTING EASEMENT
- EXISTING CONTOURS
- EXISTING UNDERGROUND FIBER OPTIC
- EXISTING ROAD RIGHT OF WAY
- EXISTING CENTERLINE OF ROAD
- EXISTING OVERHEAD ELECTRIC
- EXISTING EDGE OF GRAVEL/ASPHALT/DIRT
- EXISTING GAS LINE
- ADJOINER PARCEL
- PARTICIPATING PARCEL
- EXISTING BUILDING/STRUCTURE
- EXISTING GUY WIRE ANCHOR
- EXISTING POLE
- EXISTING SIGN

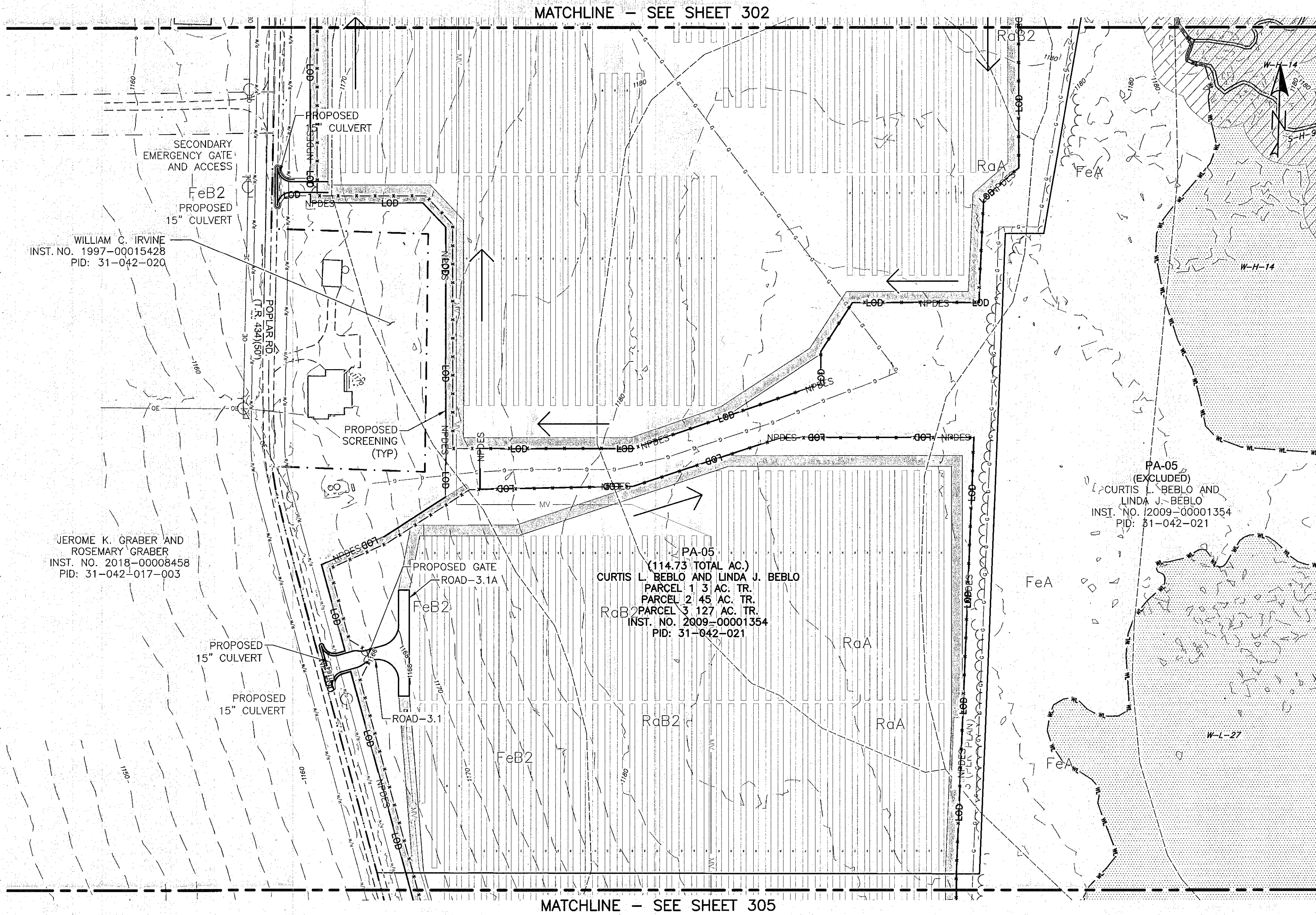
- WETLAND DELINEATION
- ASSUMED 50' FLOODWAY
- NPDES
- LOD
- 630
- MV
- OHWC
- PROPOSED GATE
- PROPOSED BASIN STRUCTURE
- TEST PIT
- PROPOSED ELECTRIC POLE
- VEGETATION FILTER
- PROPOSED SCREENING
- EMERGENCY ACCESS PATH
- SOILS TYPE SEPARATION/ ABBREVIATION
- PROJECT AREA/NPDES BOUNDARY
- FLOW PATH
- LIMIT OF DISTURBANCE
- PROPOSED ROADS AND PADS
- PROPOSED 2.0' CONTOUR
- PROPOSED FENCE
- PROPOSED ELEC FEEDER
- PROPOSED TREELINE
- PROPOSED OVERHEAD WIRE CENTER LINE
- PROPOSED BERM
- PROPOSED PHOTOVOLTAIC ARRAY
- PROPOSED PIPE AND ENDWALL
- PROPOSED GATE
- PROPOSED BASIN STRUCTURE
- TEST PIT
- PROPOSED ELECTRIC POLE
- RIPRAP
- PROPOSED INVERTER

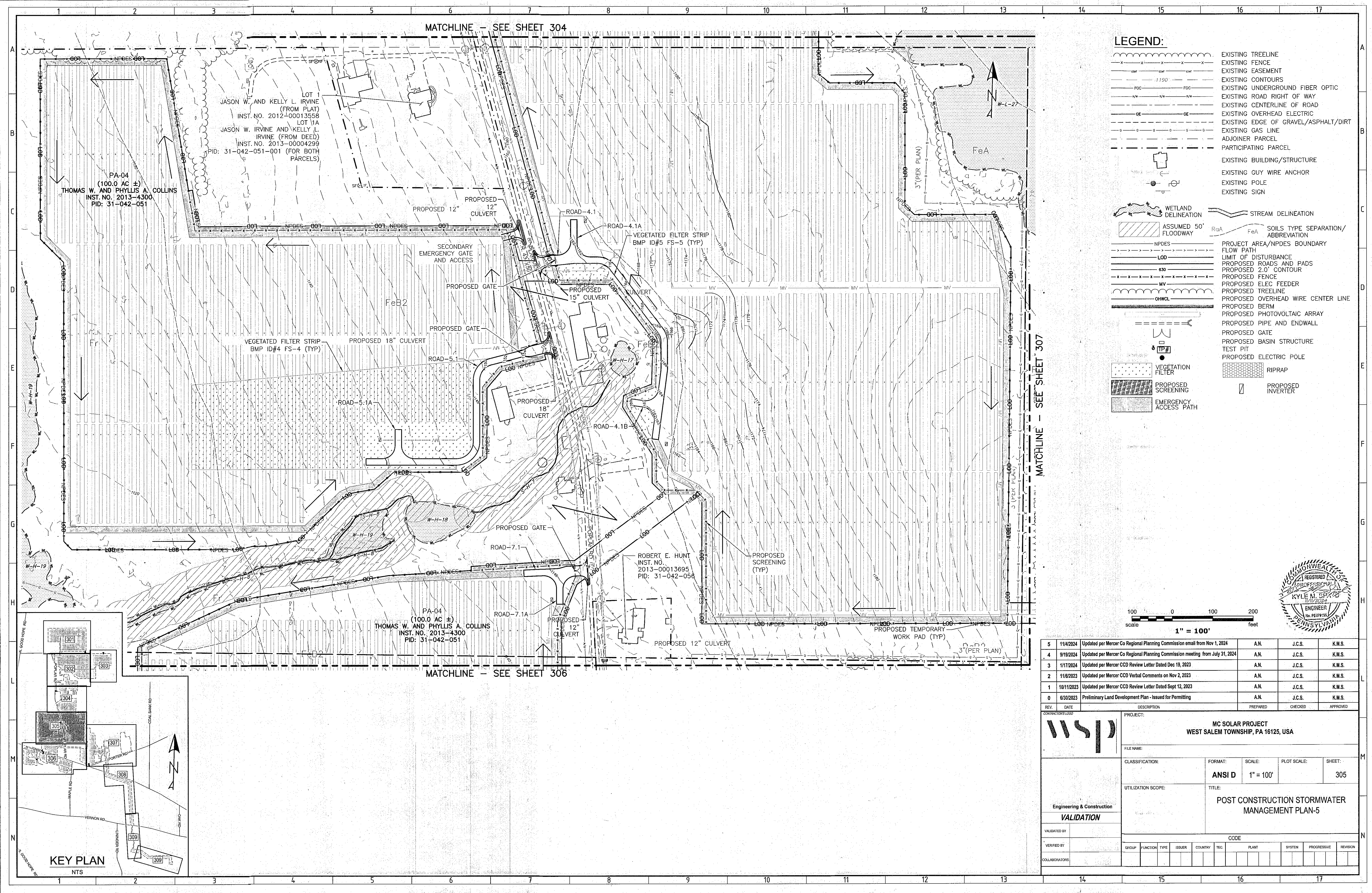
KEY PLAN



5	11/4/2024	Updated per Mercer Co Regional Planning Commission email from Nov 1, 2024	A.N.	J.C.S.	K.M.S.
4	9/19/2024	Updated per Mercer Co Regional Planning Commission meeting from July 31, 2024	A.N.	J.C.S.	K.M.S.
3	1/17/2024	Updated per Mercer CCD Review Letter Dated Dec 19, 2023	A.N.	J.C.S.	K.M.S.
2	11/6/2023	Updated per Mercer CCD Verbal Comments on Nov 2, 2023	A.N.	J.C.S.	K.M.S.
1	10/11/2023	Updated per Mercer CCD Review Letter Dated Sept 12, 2023	A.N.	J.C.S.	K.M.S.
0	6/30/2023	Preliminary Land Development Plan - Issued for Permitting	A.N.	J.C.S.	K.M.S.

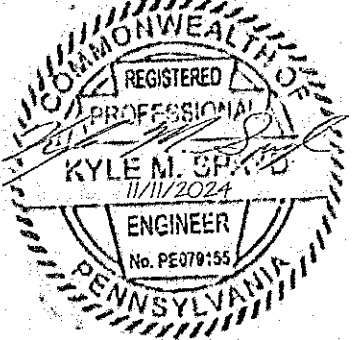
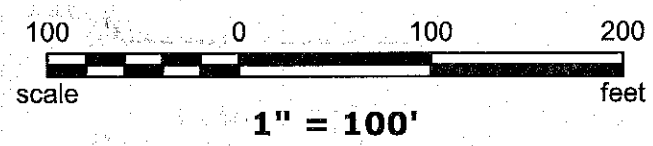
	PROJECT: MC SOLAR PROJECT WEST SALEM TOWNSHIP, PA 16125, USA									
	FILE NAME:									
	CLASSIFICATION:	FORMAT: ANSI D	SCALE: 1" = 100'	PLOT SCALE:	SHEET: 304					
	UTILIZATION SCOPE:	TITLE: POST CONSTRUCTION STORMWATER MANAGEMENT PLAN-4								
Engineering & Construction VALIDATION	CODE									
VALIDATED BY	GROUP	FUNCTION	TYPE	ISSUER	COUNTRY	TEC	PLANT	SYSTEM	PROGRESSIVE	REVISION
VERIFIED BY										
COLLABORATORS										






LEGEND:

- EXISTING TREELINE
- EXISTING FENCE
- EXISTING EASEMENT
- EXISTING CONTOURS
- EXISTING UNDERGROUND FIBER OPTIC
- EXISTING ROAD RIGHT OF WAY
- EXISTING CENTERLINE OF ROAD
- EXISTING OVERHEAD ELECTRIC
- EXISTING EDGE OF GRAVEL/ASPHALT/DIRT
- EXISTING GAS LINE
- ADJOINER PARCEL
- PARTICIPATING PARCEL
- EXISTING BUILDING/STRUCTURE
- EXISTING GUY WIRE ANCHOR
- EXISTING POLE
- EXISTING SIGN
- WETLAND DELINEATION
- STREAM DELINEATION
- ASSUMED 50' FLOODWAY
- SOILS TYPE SEPARATION/ABBREVIATION
- PROJECT AREA/NPDES BOUNDARY
- FLOW PATH
- LIMIT OF DISTURBANCE
- PROPOSED ROADS AND PADS
- PROPOSED 2.0' CONTOUR
- PROPOSED FENCE
- PROPOSED ELEC FEEDER
- PROPOSED TREELINE
- PROPOSED OVERHEAD WIRE CENTER LINE
- PROPOSED BERM
- PROPOSED PHOTOVOLTAIC ARRAY
- PROPOSED PIPE AND ENDWALL
- PROPOSED GATE
- PROPOSED BASIN STRUCTURE
- TEST PIT
- PROPOSED ELECTRIC POLE
- VEGETATION FILTER
- PROPOSED SCREENING
- EMERGENCY ACCESS PATH
- RIPRAP
- PROPOSED INVERTER



5	11/4/2024	Updated per Mercer Co Regional Planning Commission email from Nov 1, 2024	A.N.	J.C.S.	K.M.S.
4	9/19/2024	Updated per Mercer Co Regional Planning Commission meeting from July 31, 2024	A.N.	J.C.S.	K.M.S.
3	1/17/2024	Updated per Mercer CCD Review Letter Dated Dec 19, 2023	A.N.	J.C.S.	K.M.S.
2	11/8/2023	Updated per Mercer CCD Verbal Comments on Nov 2, 2023	A.N.	J.C.S.	K.M.S.
1	10/11/2023	Updated per Mercer CCD Review Letter Dated Sept 12, 2023	A.N.	J.C.S.	K.M.S.
0	6/30/2023	Preliminary Land Development Plan - Issued for Permitting	A.N.	J.C.S.	K.M.S.
REV.	DATE	DESCRIPTION	PREPARED	CHECKED	APPROVED



Engineering & Construction

VALIDATION

VALIDATED BY _____

VERIFIED BY _____

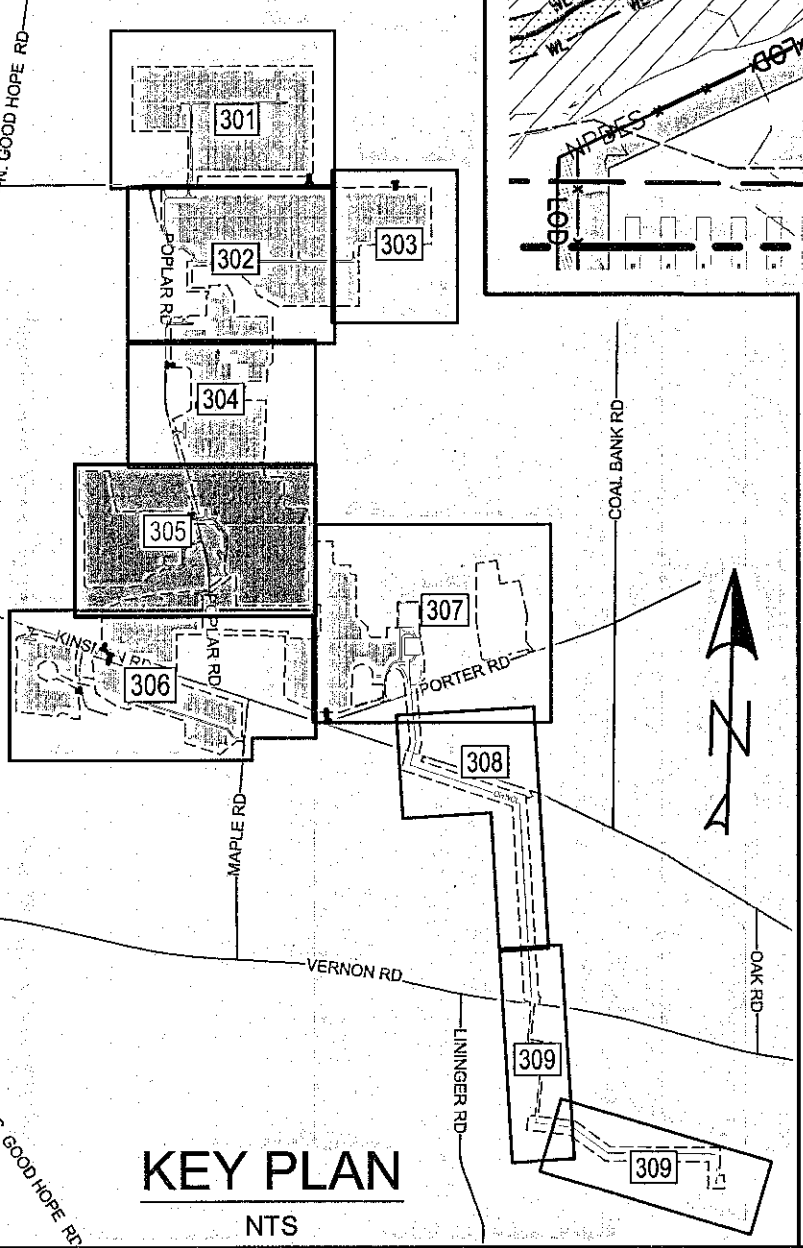
COLLABORATORS _____

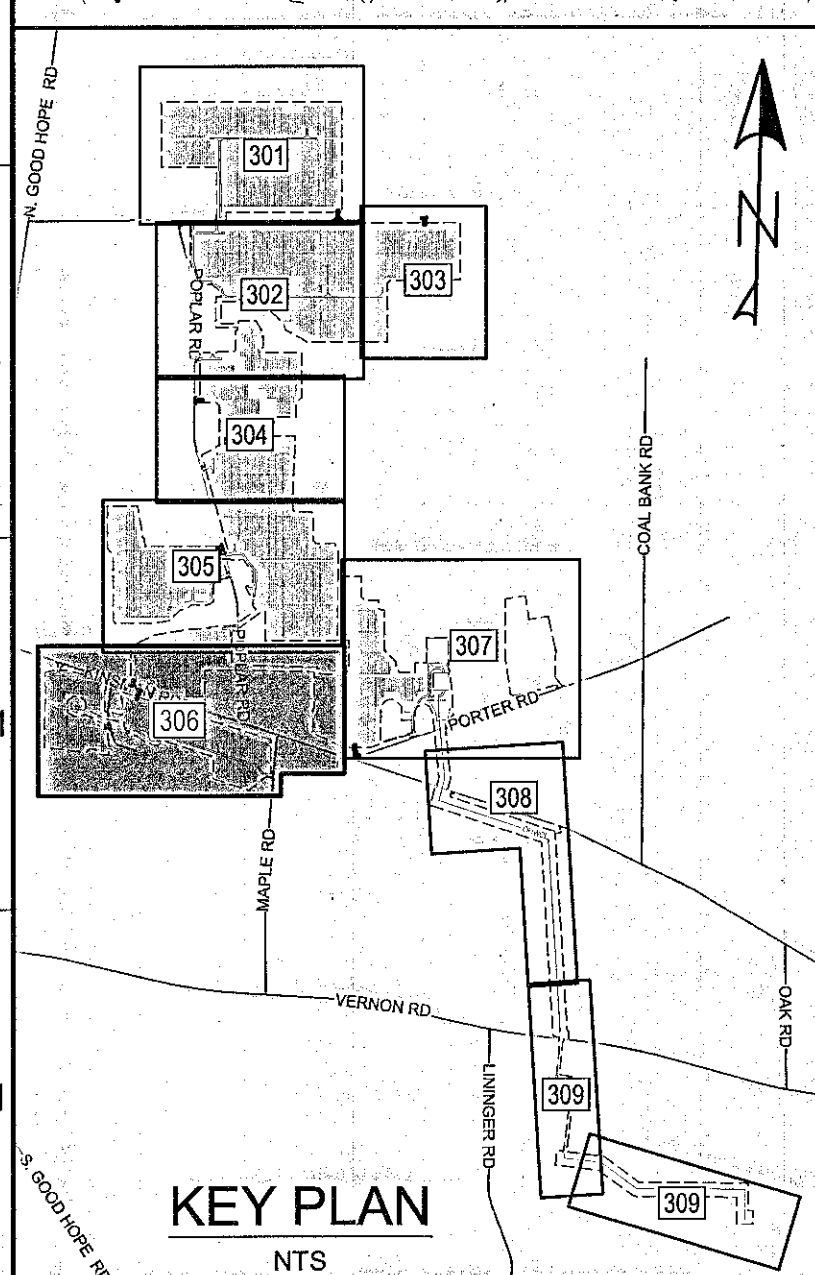
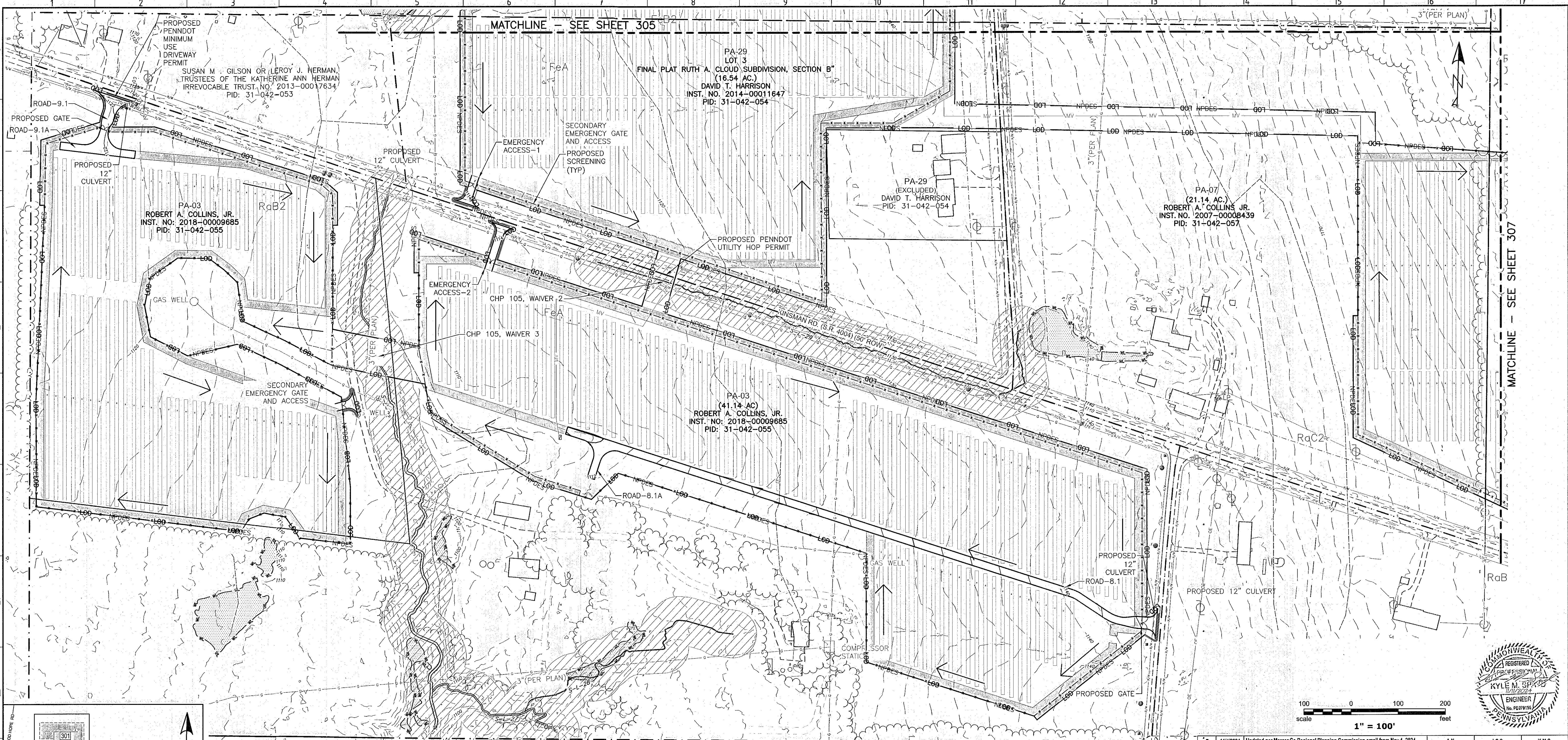
PROJECT: **MC SOLAR PROJECT**
WEST SALEM TOWNSHIP, PA 16125, USA

FILE NAME: _____

CLASSIFICATION:	FORMAT: ANSI D	SCALE: 1" = 100'	PLOT SCALE:	SHEET: 305
UTILIZATION SCOPE:	TITLE: POST CONSTRUCTION STORMWATER MANAGEMENT PLAN-5			

CODE									
GROUP	FUNCTION	TYPE	ISSUER	COUNTRY	TEC.	PLANT	SYSTEM	PROGRESSIVE	REVISION





LEGEND:

	EXISTING TREELINE		PROJECT AREA/NPDES BOUNDARY
	EXISTING FENCE		FLOW PATH
	EXISTING EASEMENT		LIMIT OF DISTURBANCE
	EXISTING CONTOURS		PROPOSED ROADS AND PADS
	EXISTING UNDERGROUND FIBER OPTIC		PROPOSED 2.0' CONTOUR
	EXISTING ROAD RIGHT OF WAY		PROPOSED FENCE
	EXISTING CENTERLINE OF ROAD		PROPOSED ELEC FEEDER
	EXISTING OVERHEAD ELECTRIC		PROPOSED TREELINE
	EXISTING EDGE OF GRAVEL/ASPHALT/DIRT		PROPOSED OVERHEAD WIRE CENTER LINE
	EXISTING GAS LINE		PROPOSED BERM
	ADJOINER PARCEL		PROPOSED PHOTOVOLTAIC ARRAY
	PARTICIPATING PARCEL		PROPOSED PIPE AND ENDWALL
	EXISTING BUILDING/STRUCTURE		PROPOSED GATE
	EXISTING GUY WIRE ANCHOR		PROPOSED BASIN STRUCTURE
	EXISTING POLE		TEST PIT
	EXISTING SIGN		PROPOSED ELECTRIC POLE
	WETLAND DELINEATION		VEGETATION FILTER
	ASSUMED 50' FLOODWAY		PROPOSED SCREENING
	STREAM DELINEATION		EMERGENCY ACCESS PATH
	SOILS TYPE SEPARATION/ ABBREVIATION		RIPRAP
			PROPOSED INVERTER

5	11/4/2024	Updated per Mercer Co Regional Planning Commission email from Nov 1, 2024	A.N.	J.C.S.	K.M.S.
4	9/19/2024	Updated per Mercer Co Regional Planning Commission meeting from July 31, 2024	A.N.	J.C.S.	K.M.S.
3	11/7/2023	Updated per Mercer CCD Review Letter Dated Dec 19, 2023	A.N.	J.C.S.	K.M.S.
2	11/6/2023	Updated per Mercer CCD Verbal Comments on Nov 2, 2023	A.N.	J.C.S.	K.M.S.
1	10/11/2023	Updated per Mercer CCD Review Letter Dated Sept 12, 2023	A.N.	J.C.S.	K.M.S.
0	6/30/2023	Preliminary Land Development Plan - Issued for Permitting	A.N.	J.C.S.	K.M.S.
REV.	DATE	DESCRIPTION	PREPARED	CHECKED	APPROVED

CONTRACTOR'S LOGO

PROJECT:
MC SOLAR PROJECT
WEST SALEM TOWNSHIP, PA 18125, USA

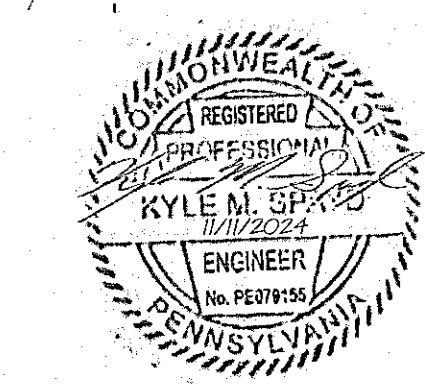
FILE NAME:

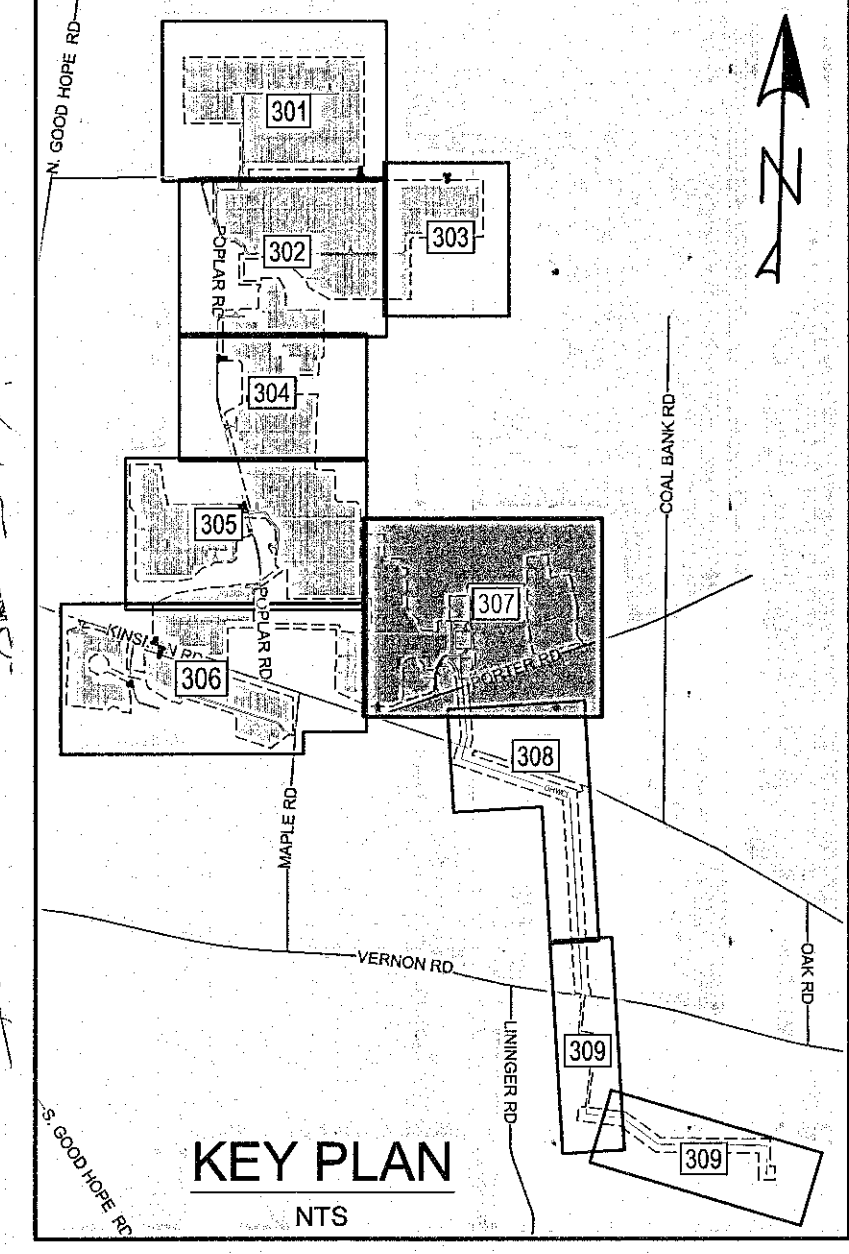
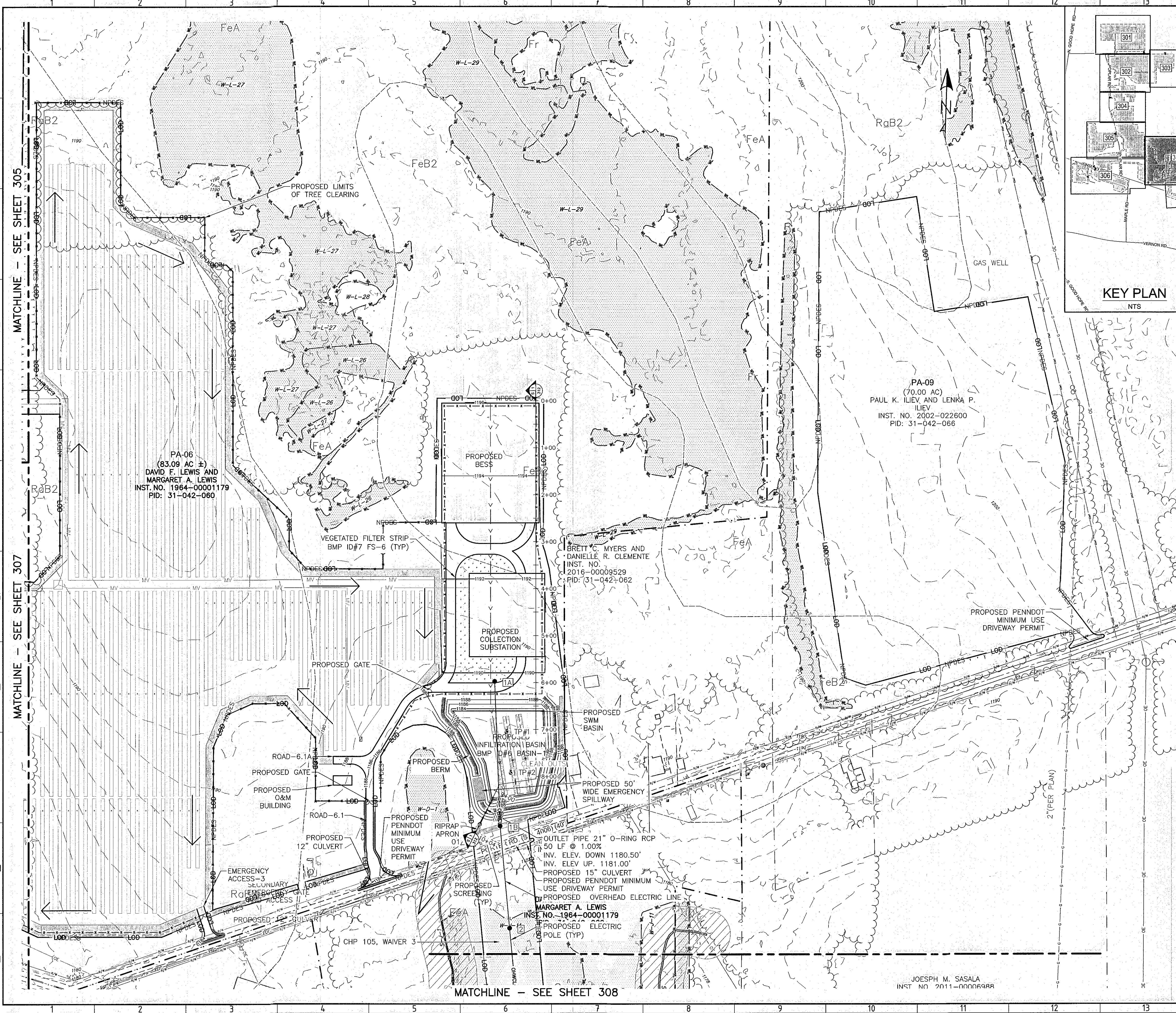
CLASSIFICATION:	FORMAT:	SCALE:	PLOT SCALE:	SHEET:
	ANSI D	1" = 100'		306

UTILIZATION SCOPE:
TITLE:
POST CONSTRUCTION STORMWATER MANAGEMENT PLAN-6

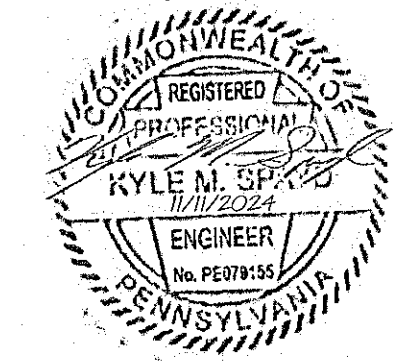
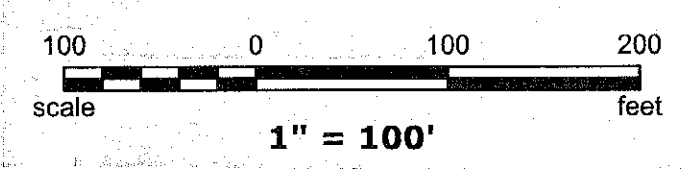
Engineering & Construction
VALIDATION

VALIDATED BY:										
VERIFIED BY:										
COLLABORATORS:										
GROUP	FUNCTION	TYPE	ISSUER	COUNTRY	TEC.	PLANT	SYSTEM	PROGRESSIVE	REVISION	





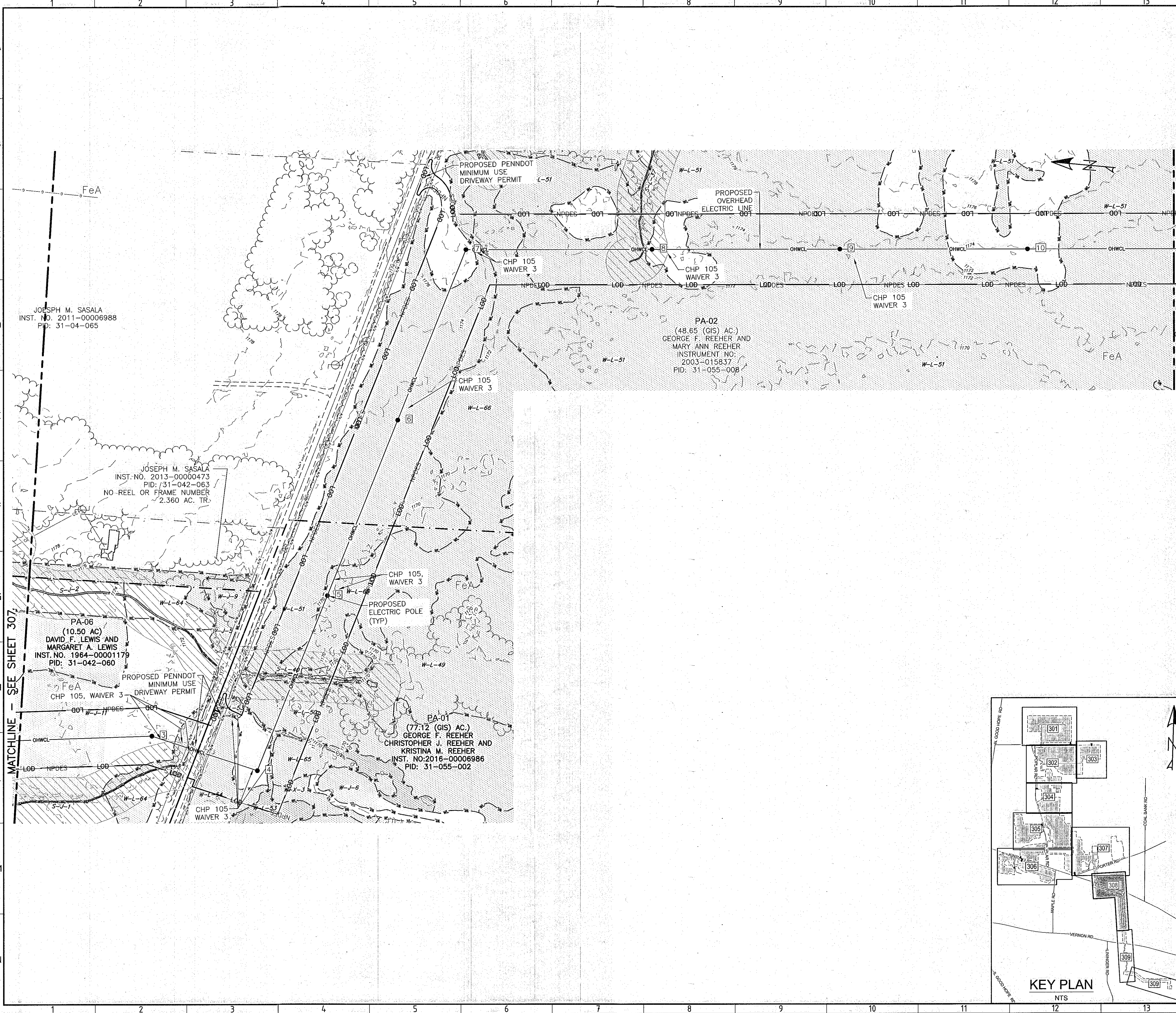
- LEGEND:**
- EXISTING TREELINE
 - EXISTING FENCE
 - EXISTING EASEMENT
 - EXISTING CONTOURS
 - EXISTING UNDERGROUND FIBER OPTIC
 - EXISTING ROAD RIGHT OF WAY
 - EXISTING CENTERLINE OF ROAD
 - EXISTING OVERHEAD ELECTRIC
 - EXISTING EDGE OF GRAVEL/ASPHALT/DIRT
 - EXISTING GAS LINE
 - ADJOINER PARCEL
 - PARTICIPATING PARCEL
 - EXISTING BUILDING/STRUCTURE
 - EXISTING GUY WIRE ANCHOR
 - EXISTING POLE
 - EXISTING SIGN
 - WETLAND DELINEATION
 - ASSUMED 50' FLOODWAY
 - NPDES
 - LOD
 - 630
 - MV
 - CHWCL
 - PROPOSED PENNDOT MINIMUM USE DRIVEWAY PERMIT
 - VEGETATION FILTER
 - PROPOSED SCREENING
 - EMERGENCY ACCESS PATH
 - STREAM DELINEATION
 - SOILS TYPE SEPARATION/ ABBREVIATION
 - PROJECT AREA/NPDES BOUNDARY
 - FLOW PATH
 - LIMIT OF DISTURBANCE
 - PROPOSED ROADS AND PADS
 - PROPOSED 2.0' CONTOUR
 - PROPOSED FENCE
 - PROPOSED ELEC FEEDER
 - PROPOSED TREELINE
 - PROPOSED OVERHEAD WIRE CENTER LINE
 - PROPOSED BERM
 - PROPOSED PHOTOVOLTAIC ARRAY
 - PROPOSED PIPE AND ENDWALL
 - PROPOSED GATE
 - PROPOSED BASIN STRUCTURE
 - TEST PIT
 - PROPOSED ELECTRIC POLE
 - RIPRAP
 - PROPOSED INVERTER



5	11/4/2024	Updated per Mercer Co Regional Planning Commission email from Nov 1, 2024	A.N.	J.C.S.	K.M.S.
4	9/19/2024	Updated per Mercer Co Regional Planning Commission meeting from July 31, 2024	A.N.	J.C.S.	K.M.S.
3	1/17/2024	Updated per Mercer CCD Review Letter Dated Dec 19, 2023	A.N.	J.C.S.	K.M.S.
2	11/6/2023	Updated per Mercer CCD Verbal Comments on Nov 2, 2023	A.N.	J.C.S.	K.M.S.
1	10/11/2023	Updated per Mercer CCD Review Letter Dated Sept 12, 2023	A.N.	J.C.S.	K.M.S.
0	6/30/2023	Preliminary Land Development Plan - Issued for Permitting	A.N.	J.C.S.	K.M.S.

CONTRACTOR'S LOGO		PROJECT: MC SOLAR PROJECT WEST SALEM TOWNSHIP, PA 16125, USA	
FILE NAME:		SHEET: 307	
CLASSIFICATION:	FORMAT: ANSI D	SCALE: 1" = 100'	PLOT SCALE:
UTILIZATION SCOPE:	TITLE: POST CONSTRUCTION STORMWATER MANAGEMENT PLAN-7		
Engineering & Construction		CODE	
VALIDATION		GROUP FUNCTION TYPE ISSUER COUNTRY TEC PLANT SYSTEM PROGRESSIVE REVISION	
VALIDATED BY	VERIFIED BY	COLLABORATORS	

JOSEPH M. SASALA
INST. NO. 2011-00006988

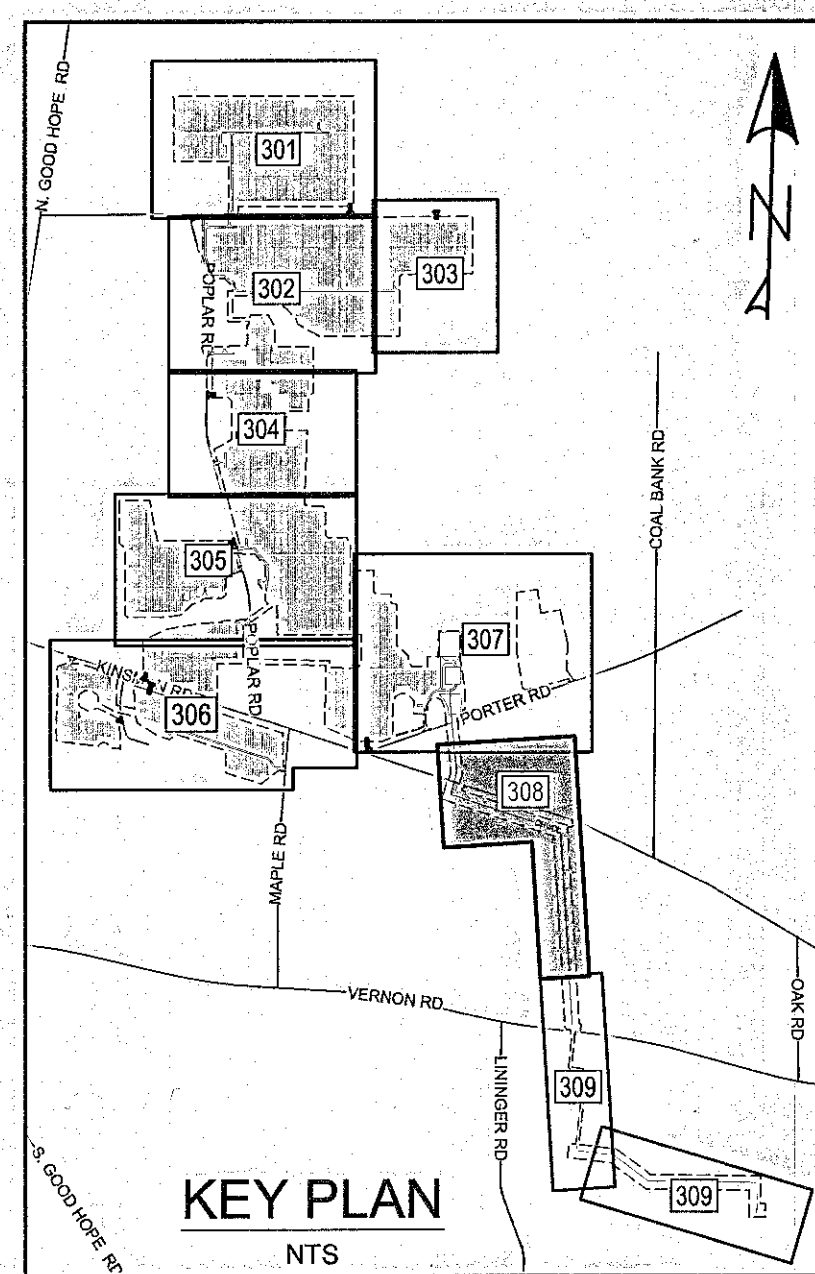


LEGEND:

- EXISTING TREELINE
- EXISTING FENCE
- EXISTING EASEMENT
- EXISTING CONTOURS
- EXISTING UNDERGROUND FIBER OPTIC
- EXISTING ROAD RIGHT OF WAY
- EXISTING CENTERLINE OF ROAD
- EXISTING OVERHEAD ELECTRIC
- EXISTING EDGE OF GRAVEL/ASPHALT/DIRT
- EXISTING GAS LINE
- ADJOINER PARCEL
- PARTICIPATING PARCEL
- EXISTING BUILDING/STRUCTURE
- EXISTING GUY WIRE ANCHOR
- EXISTING POLE
- EXISTING SIGN
- WETLAND DELINEATION
- STREAM DELINEATION
- ASSUMED 50' FLOODWAY
- SOILS TYPE SEPARATION/ABBREVIATION
- PROJECT AREA/NPDES BOUNDARY
- FLOW PATH
- LIMIT OF DISTURBANCE
- PROPOSED ROADS AND PADS
- PROPOSED 2.0' CONTOUR
- PROPOSED FENCE
- PROPOSED ELEC FEEDER
- PROPOSED TREELINE
- PROPOSED OVERHEAD WIRE CENTER LINE
- PROPOSED BERM
- PROPOSED PHOTOVOLTAIC ARRAY
- PROPOSED PIPE AND ENDWALL
- PROPOSED GATE
- PROPOSED BASIN STRUCTURE
- TEST PIT
- PROPOSED ELECTRIC POLE
- VEGETATION FILTER
- PROPOSED SCREENING
- EMERGENCY ACCESS PATH
- RIPRAP
- PROPOSED INVERTER

MATCHLINE - SEE SHEET 307

MATCHLINE - SEE SHEET 309



REVISIONS

REV.	DATE	DESCRIPTION	PREPARED	CHECKED	APPROVED
5	11/4/2024	Updated per Mercer Co Regional Planning Commission email from Nov 1, 2024	A.N.	J.C.S.	K.M.S.
4	9/19/2024	Updated per Mercer Co Regional Planning Commission meeting from July 31, 2024	A.N.	J.C.S.	K.M.S.
3	1/17/2024	Updated per Mercer CCD Review Letter Dated Dec 19, 2023	A.N.	J.C.S.	K.M.S.
2	11/6/2023	Updated per Mercer CCD Verbal Comments on Nov 2, 2023	A.N.	J.C.S.	K.M.S.
1	10/11/2023	Updated per Mercer CCD Review Letter Dated Sept 12, 2023	A.N.	J.C.S.	K.M.S.
0	6/30/2023	Preliminary Land Development Plan - Issued for Permitting	A.N.	J.C.S.	K.M.S.

CONTRACTOR'S LOGO

PROJECT: MC SOLAR PROJECT
WEST SALEM TOWNSHIP, PA 16125, USA

FILE NAME:

CLASSIFICATION: **ANSI D**

FORMAT: **1" = 100'**

SCALE:

PLOT SCALE:

SHEET: 308

UTILIZATION SCOPE:

TITLE: POST CONSTRUCTION STORMWATER MANAGEMENT PLAN-8

Engineering & Construction

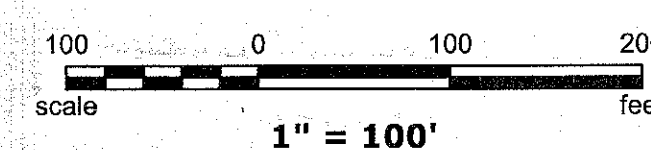
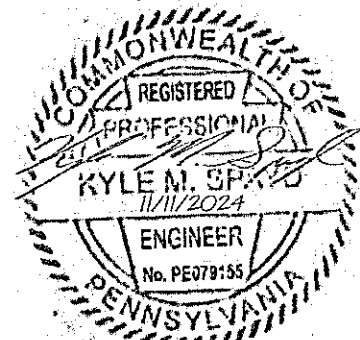
VALIDATION

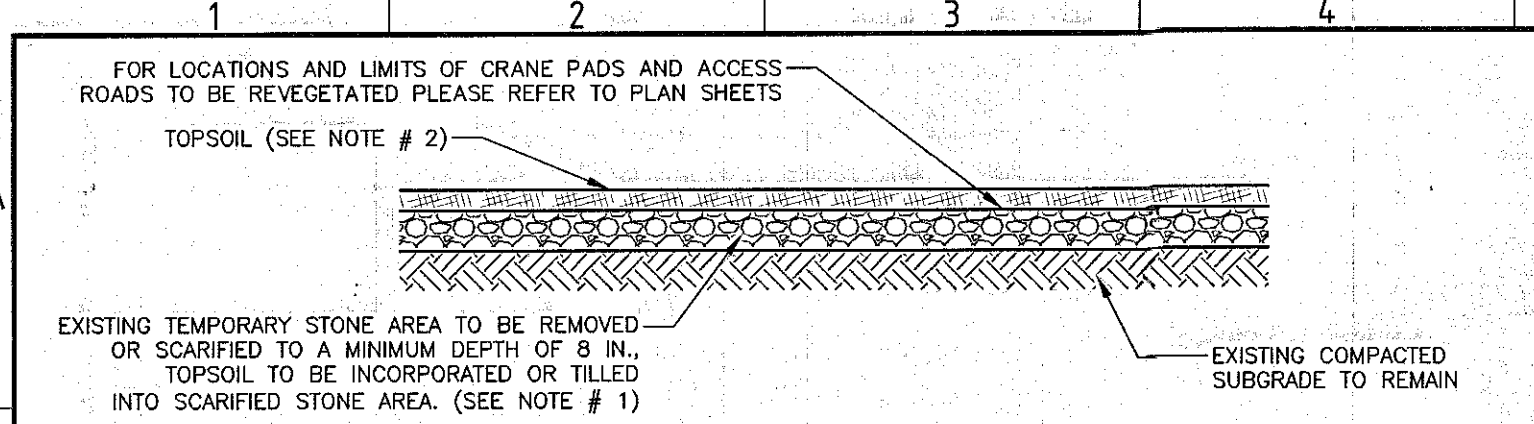
VALIDATED BY:

VERIFIED BY:

COLLABORATORS:

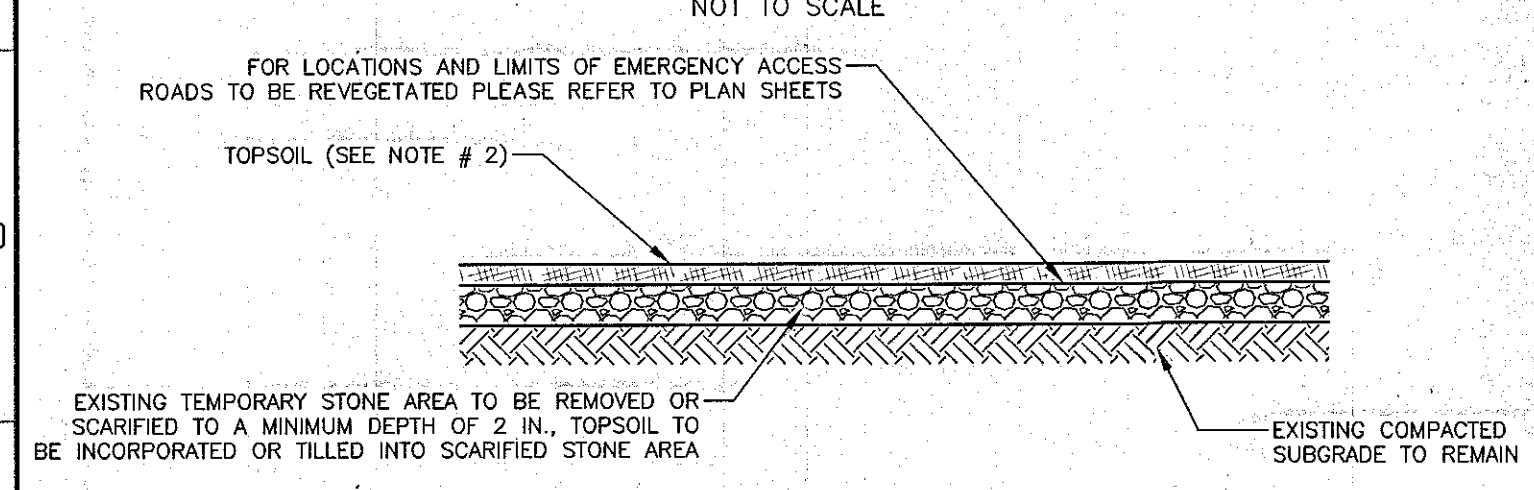
CODE									
GROUP	FUNCTION	TYPE	ISSUER	COUNTRY	TEC	PLANT	SYSTEM	PROGRESSIVE	REVISION





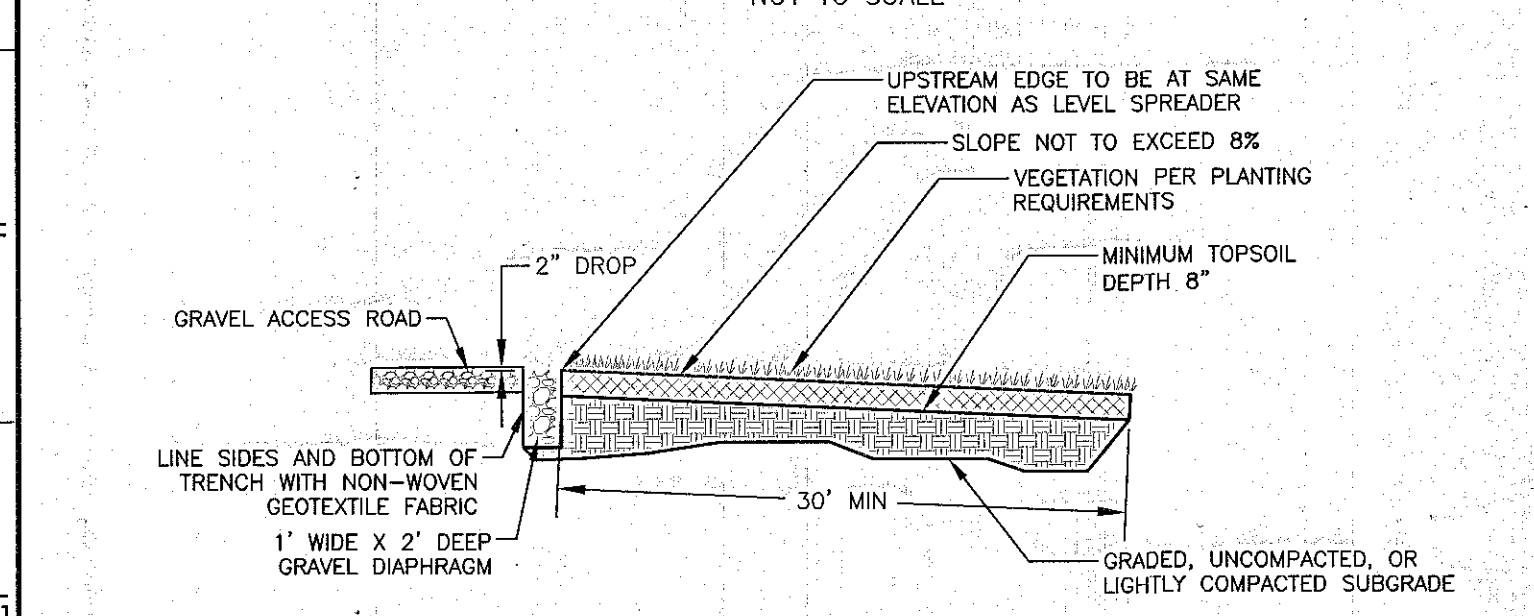
- NOTES:
1. GRADED AREAS SHALL BE SCARIFIED OR OTHERWISE LOOSENED TO A MINIMUM DEPTH OF 8 INCHES TO PERMIT BONDING OF THE TOPSOIL. REFER TO TOPSOIL APPLICATION NOTES.
 2. TOPSOIL SHOULD BE UNIFORMLY DISTRIBUTED ACROSS THE AREA TO BE RESTORED TO A DEPTH 4-8 INCHES (MINIMUM OF 2 INCHES ON FILL OUTSLOPES). REFER TO TOPSOIL APPLICATION NOTES.
 3. SPREADING SHALL BE DONE IN A MANNER SUCH THAT SEEDING CAN BE COMPLETED WITH A MINIMUM OF ADDITIONAL TILLAGE. IRREGULARITIES OF THE SURFACE RESULTING FROM PLACEMENT SHALL BE CORRECTED IN ORDER TO PREVENT FORMATION OF DEPRESSIONS. REFER TO TOPSOIL APPLICATION NOTES.
 4. PRE-PLANTING FERTILIZERS AND PH ADJUSTING AGENTS MAY BE APPLIED PRIOR TO INCORPORATING. REFER TO REVEGETATION OF TEMPORARY STONE AREA NOTES.
 5. RESTORATION AREA TO BE SEEDED IN ACCORDANCE WITH PERMANENT SEEDING SPECIFICATIONS THIS PLAN SET.
 6. SEED SHALL BE APPLIED VIA DRILL SEEDER, HYDROSEEDER OR BROADCAST SPREADER ALONG WITH A CARRIER. REFER TO REVEGETATION OF TEMPORARY STONE AREA NOTES.
 7. RAKE SEEDED AREA TO ENSURE PROPER SOIL-SEED CONTACT AND APPLY STRAW MULCH AT 3 TONS/ACRE TO PRESERVE MOISTURE. REFER TO REVEGETATION OF TEMPORARY STONE AREA NOTES.

TEMPORARY STONE AREA REVEGETATION DETAIL



- NOTES:
1. TOPSOIL SHOULD BE UNIFORMLY DISTRIBUTED ACROSS THE AREA TO BE RESTORED TO A DEPTH 4-8 INCHES (MINIMUM OF 2 INCHES ON FILL OUTSLOPES). REFER TO TOPSOIL APPLICATION NOTES.
 2. COMPLY WITH NOTES 3-7 FROM THE TEMPORARY STONE AREA REVEGETATION DETAIL SHOWN ABOVE.

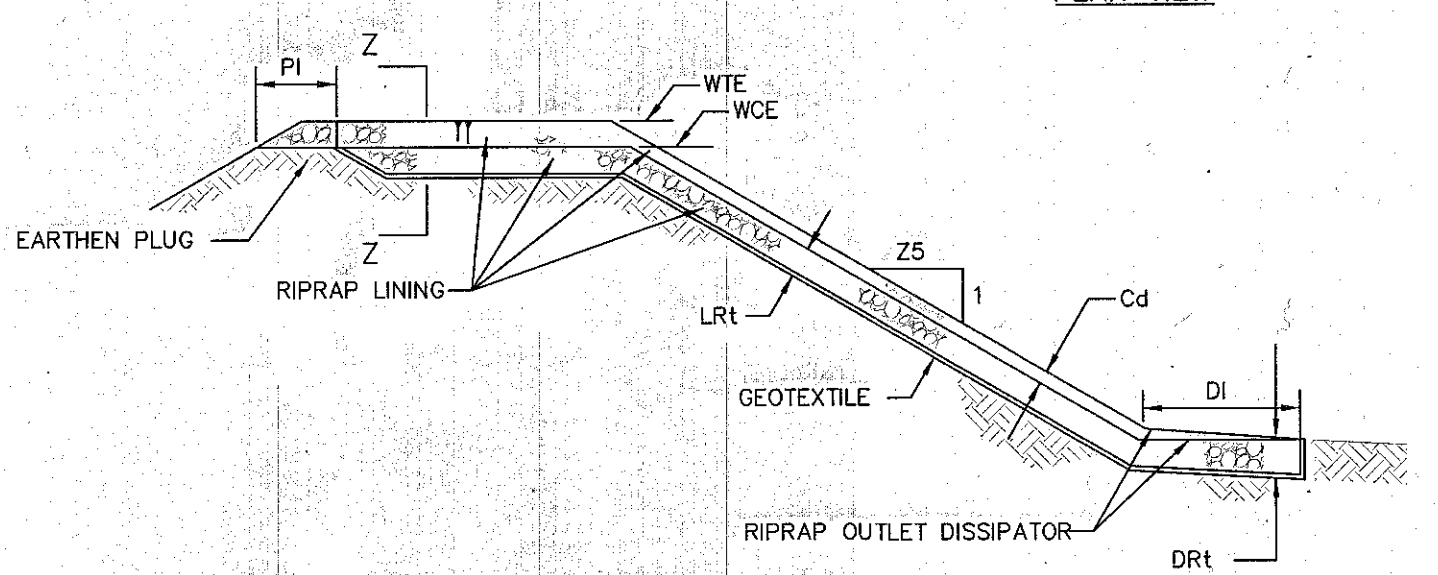
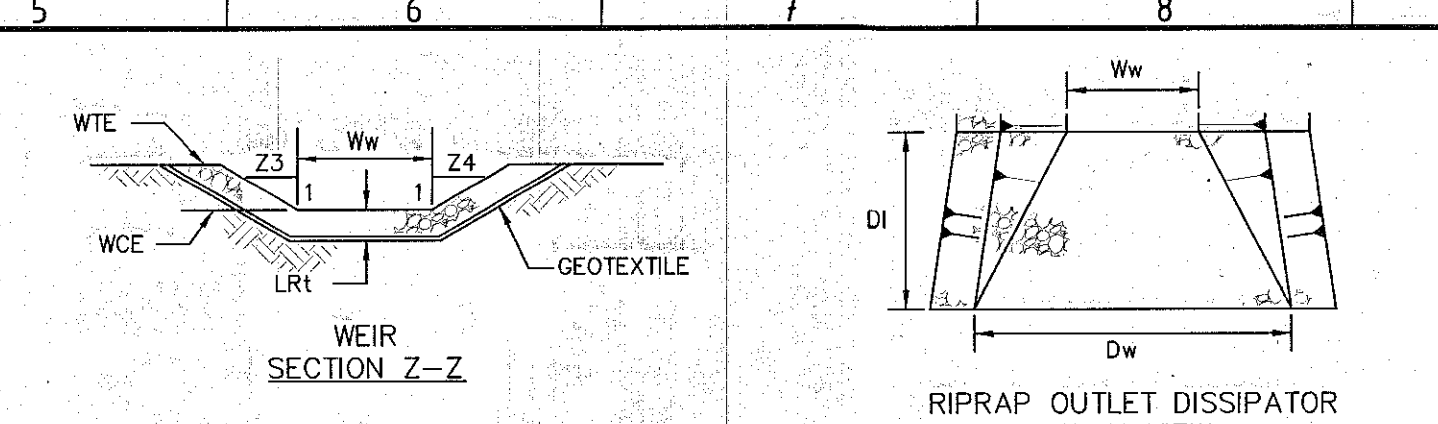
EMERGENCY ACCESS ROAD REVEGETATION DETAIL



TYPICAL VEGETATIVE FILTER STRIP DETAIL

- NOTES:
1. BEGIN FILTER STRIP CONSTRUCTION ONLY WHEN THE UPGRADIENT SITE HAS BEEN SUFFICIENTLY STABILIZED AND TEMPORARY EROSION AND SEDIMENT CONTROL MEASURES ARE IN PLACE. (EROSION AND SEDIMENT CONTROL METHODS SHALL ADHERE TO THE PENNSYLVANIA DEPARTMENT OF ENVIRONMENTAL PROTECTION'S EROSION AND SEDIMENT POLLUTION CONTROL PROGRAM MANUAL, MARCH 2000 OR LATEST EDITION.) THE STRIP SHOULD BE INSTALLED AT A TIME OF THE YEAR WHEN SUCCESSFUL ESTABLISHMENT WITHOUT IRRIGATION IS MOST LIKELY HOWEVER, TEMPORARY IRRIGATION MAY BE NEEDED IN PERIODS OF LITTLE RAIN OR DROUGHT.
 2. FOR PLANTED (NOT INDIGENOUS FILTER STRIPS) CLEAR AND GRUB SITE AS NEEDED. CARE SHOULD BE TAKEN TO DISTURB AS LITTLE EXISTING VEGETATION AS POSSIBLE, WHETHER IN THE DESIGNATED FILTER STRIP AREA OR IN ADJACENT AREAS, AND TO AVOID SOIL COMPACTION. GRADING A LEVEL SLOPE MAY REQUIRE REMOVAL OF EXISTING VEGETATION.
 3. ROUGH GRADE THE FILTER STRIP AREA, INCLUDING THE BERM AT THE TOE OF THE SLOPE, IF PROPOSED. USE THE LIGHTEST, LEAST DISRUPTIVE EQUIPMENT TO AVOID EXCESSIVE COMPACTION AND/OR LAND DISTURBANCE.
 4. CONSTRUCT LEVEL SPREADER DEVICE AT THE UPGRADIENT EDGE OF THE STRIP. FOR GRAVEL TRENCHES, DO NOT COMPACT SUBGRADE (FOLLOW CONSTRUCTION SEQUENCE FOR INFILTRATION TRENCH).
 5. FINE GRADE THE FILTER STRIP AREA. ACCURATE GRADING IS CRUCIAL FOR FILTER STRIPS. EVEN THE SMALLEST IRREGULARITIES MAY COMPROMISE SHEET FLOW CONDITIONS FROM THE RUNOFF.
 6. SEED OR SOD, AS DESIRED. PLANT MORE SUBSTANTIAL VEGETATION, SUCH AS TREES AND SHRUBS, IF PROPOSED. IF SOD IS PROPOSED, PLACE TILES TIGHTLY ENOUGH TO AVOID GAPS AND STAGGER THE ENDS TO PREVENT CHANNELIZATION ALONG THE STRIP. USE A ROLLER ON SOD TO PREVENT AIR POCKETS BETWEEN THE SOD AND SOIL FROM FORMING.
 7. CONCURRENT WITH #6, STABILIZE SEEDED FILTER STRIPS WITH APPROPRIATE PERMANENT SOIL STABILIZATION METHODS, SUCH AS EROSION CONTROL MATTING OR BLANKETS. EROSION CONTROL FOR SEEDED FILTER STRIPS SHOULD BE MAINTAINED FOR AT LEAST THE FIRST 75 DAYS FOLLOWING THE FIRST STORM EVENT OF THE SEASON.
 8. ONCE THE FILTER STRIP IS SUFFICIENTLY STABILIZED, REMOVE TEMPORARY EROSION AND SEDIMENT CONTROLS. IT IS VERY IMPORTANT THAT FILTER STRIP VEGETATION BE FULLY ESTABLISHED BEFORE RECEIVING UPLAND STORMWATER FLOW. ONE FULL GROWING SEASON IS THE RECOMMENDED MINIMUM TIME FOR ESTABLISHMENT. SOME SEED MIXTURES MAY REQUIRE A LONGER TIME PERIOD TO BECOME ESTABLISHED.
 9. ENSURE ALL FILTER STRIP AREAS UNDERGO SOIL AMENDMENT AND RESTORATION TO PROVIDE THE NECESSARY INFILTRATION REQUIRED FOR THE SITE.

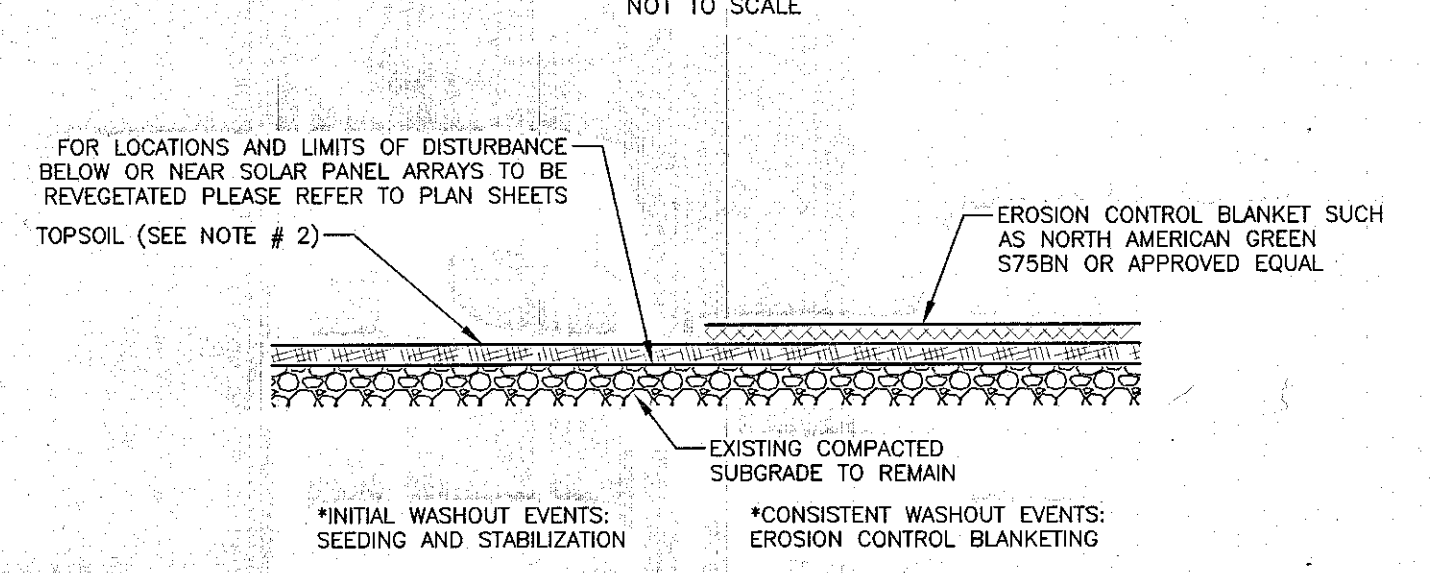
VEGETATIVE FILTER STRIP INFORMATION						
FILTER STRIP ID#	WATERSHED	LATITUDE	LONGITUDE	AREA	PLANTINGS	SEED MIX
FS-1	DP001	41.427930	-80.441660	305,163	PER SHEET 310	PER SHEET 003
FS-2	DP002	41.428880	-80.437850	144,608	PER SHEET 310	PER SHEET 003
FS-3	DP003	41.423430	-80.437210	155,630	PER SHEET 310	PER SHEET 003
FS-4	DP004	41.415190	-80.441820	158,345	PER SHEET 310	PER SHEET 003
FS-5	DP004	41.415940	-80.439800	13,911	PER SHEET 310	PER SHEET 003
FS-6	DP005	41.412750	-80.432740	18,379	PER SHEET 310	PER SHEET 003



BASIN NO.	WEIR		CREST ELEV WCE (FT)	WIDTH Ww (FT)	LINING		CHANNEL	DISSIPATOR			
	Z3 (FT)	Z4 (FT)			RIPRAP SIZE (R-...)	RIPRAP THICK. LRt (IN)		Z5 (FT)	DEPTH Cd (FT)	LENGTH DI (FT)	WIDTH Dw (FT)
01	3	3	1189.50	1187.50	5	12	3	1	29	50	5

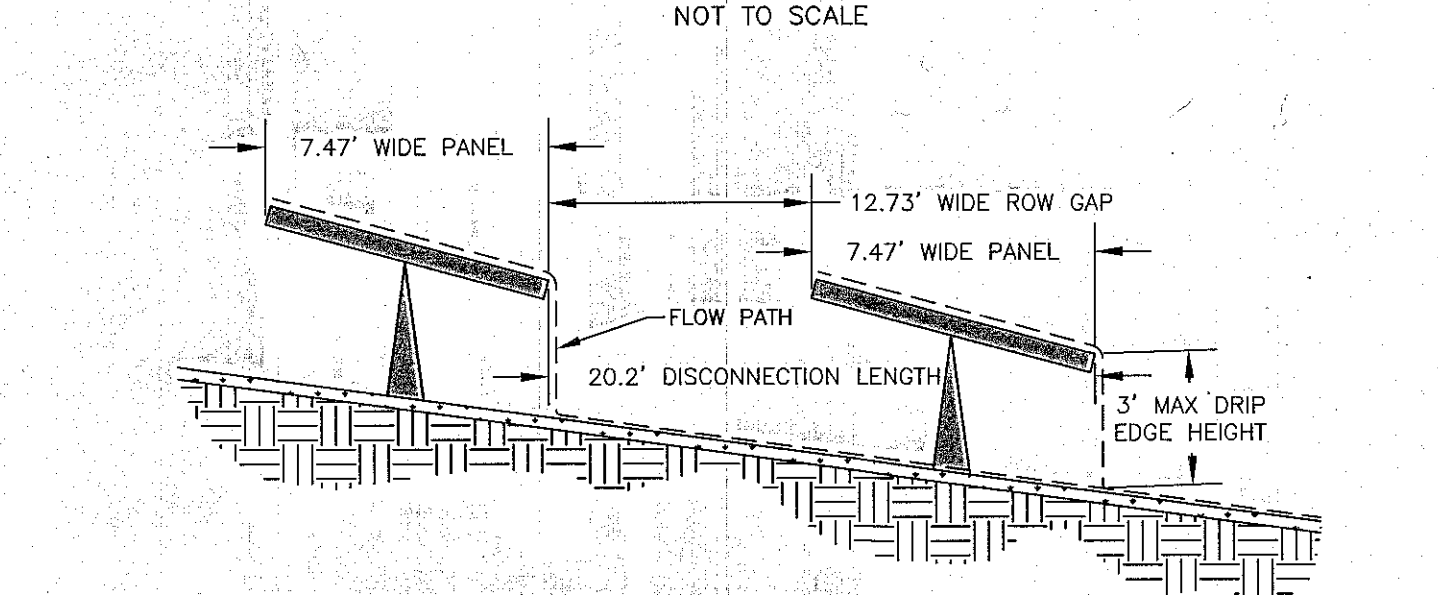
- NOTES:
1. DIMENSION PI SHALL BE 5' MINIMUM.
 2. DISPLACED RIPRAP WITHIN THE SPILLWAY AND/OR OUTLET CHANNEL SHALL BE REPLACED IMMEDIATELY.

STANDARD CONSTRUCTION DETAIL #7-12
SEDIMENT BASIN EMERGENCY SPILLWAY
WITH RIPRAP LINING

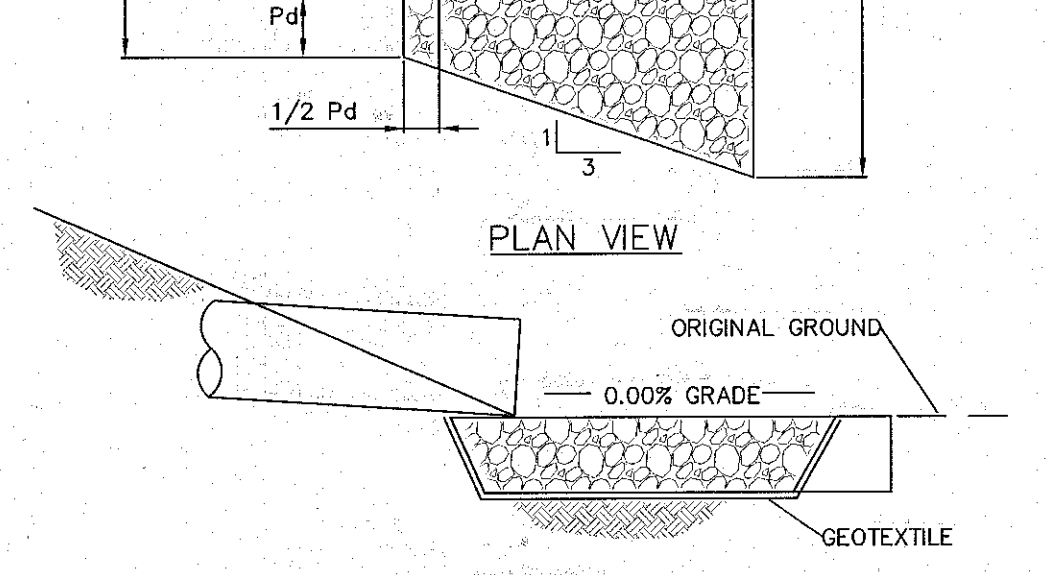
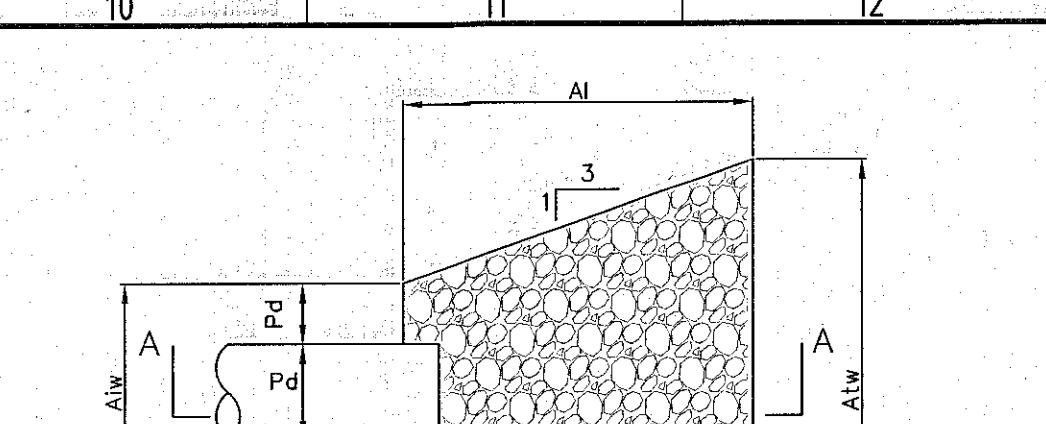


- NOTES:
1. GRADED AREAS SHALL BE SCARIFIED OR OTHERWISE LOOSENED TO A MINIMUM DEPTH OF 8 INCHES TO PERMIT BONDING OF THE TOPSOIL. REFER TO TOPSOIL APPLICATION NOTES.
 2. TOPSOIL SHOULD BE UNIFORMLY DISTRIBUTED ACROSS THE AREA TO BE RESTORED TO A DEPTH 4-8 INCHES (MINIMUM OF 2 INCHES ON FILL OUTSLOPES). REFER TO TOPSOIL APPLICATION NOTES.
 3. SPREADING SHALL BE DONE IN A MANNER SUCH THAT SEEDING CAN BE COMPLETED WITH A MINIMUM OF ADDITIONAL TILLAGE. IRREGULARITIES OF THE SURFACE RESULTING FROM PLACEMENT SHALL BE CORRECTED IN ORDER TO PREVENT EROSION, RILL OR GULLY FORMATIONS. REFER TO TOPSOIL APPLICATION NOTES.
 4. PRE-PLANTING FERTILIZERS AND PH ADJUSTING AGENTS MAY BE APPLIED PRIOR TO INCORPORATING. REFER TO REVEGETATION OF TEMPORARY STONE AREA NOTES.
 5. RESTORATION AREA TO BE SEEDED IN ACCORDANCE WITH PERMANENT SEEDING SPECIFICATIONS THIS PLAN SET.
 6. SEED SHALL BE APPLIED VIA DRILL SEEDER, HYDROSEEDER OR BROADCAST SPREADER ALONG WITH A CARRIER. REFER TO REVEGETATION OF TEMPORARY STONE AREA NOTES.
 7. RAKE SEEDED AREA TO ENSURE PROPER SOIL-SEED CONTACT AND APPLY STRAW MULCH AT 3 TONS/ACRE TO PRESERVE MOISTURE. REFER TO REVEGETATION OF TEMPORARY STONE AREA NOTES.
 8. SITE INSPECTIONS SHALL BE CONDUCTED ONCE A MONTH FOR THE PERPETUITY OF THE PROJECT, THE INSPECTIONS SHOULD BE FOCUSED ON REVIEW OF THE ARRAY FIELD. SPECIFIC FOCUS SHOULD BE PLACED ON AREAS THAT HAVE BEEN GRADED AND AREAS THAT IN GENERAL THE ARRAYS RUN PERPENDICULAR TO THE NATURAL FLOW.
 9. THE INSPECTOR SHALL CONFIRM THAT NO STORMWATER DAMAGE OR NEW EROSION IS PRESENT THROUGHOUT PROJECT SITE AREAS.
 10. IN THE EVENT THAT AN AREA OF INCREASED EROSION OR WASHOUT DUE TO CONCENTRATED FLOWS IS IDENTIFIED, THE AREA SHALL BE IMMEDIATELY REGRADED TO ELIMINATE THE EROSION AREA, SEEDED AND STABILIZED WITH STRAW MULCH WITHIN 96 HOURS. THE AREA SHOULD BE IDENTIFIED FOR FUTURE INSPECTIONS. IF THE AREA(S) CONTINUE TO EXPERIENCE EROSION AND UNSTABLE CONDITIONS, AN EROSION CONTROL BLANKET SUCH AS NORTH AMERICAN GREEN S75BN OR APPROVED EQUAL SHALL BE INSTALLED TO PREVENT FURTHER EROSION FROM OCCURRING.

REVEGETATION OF ARRAY FIELDS DETAIL



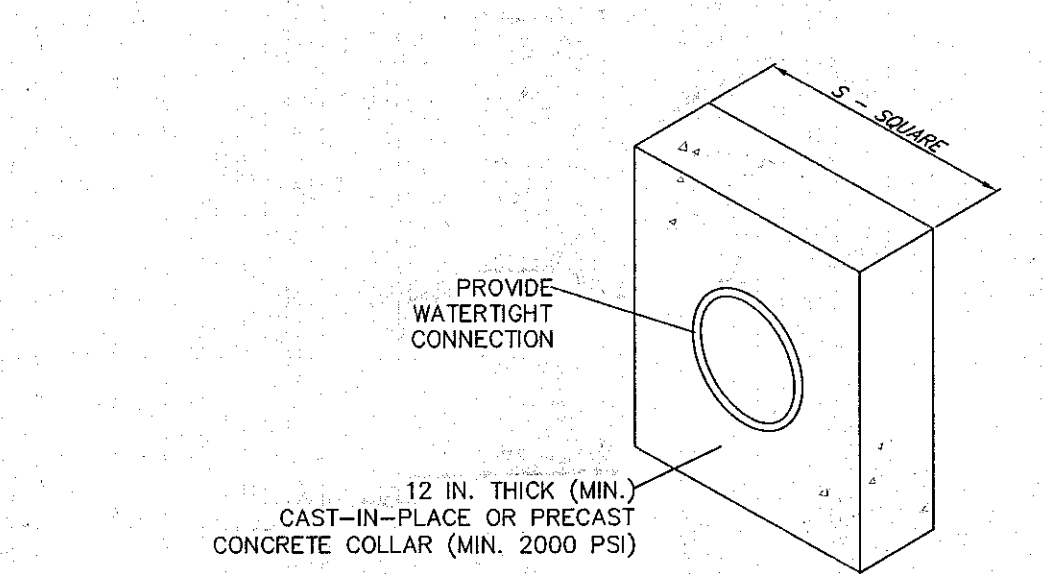
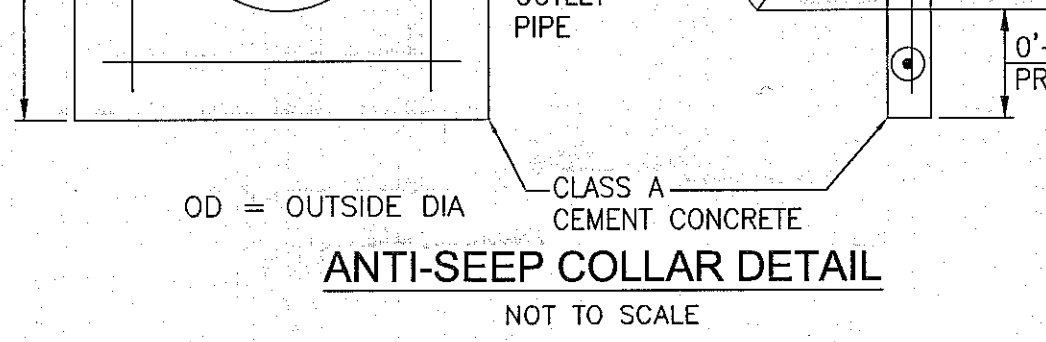
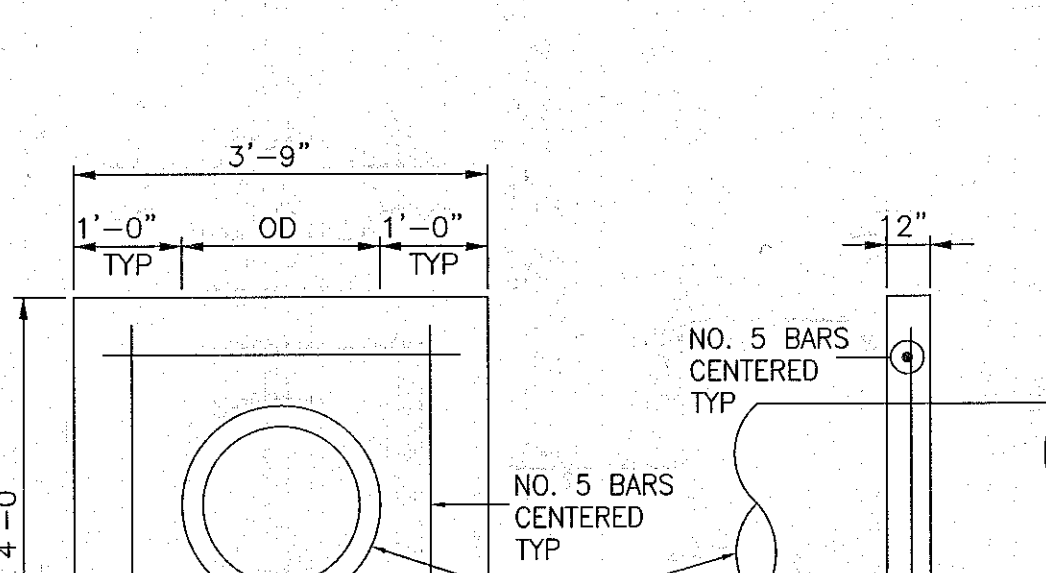
SOLAR PANEL ARRAY CONFIGURATION



OUTLET NO.	PIPE DIA Pd (IN)	RIPRAP		APRON	INITIAL WIDTH Atw (FT)	TERMINAL WIDTH Atw (FT)
		SIZE R-...	THICK. Rt (IN)			
01	21	5	12	29	6	17
02	12	3	12	4	3	6

- NOTES:
1. ALL APRONS SHALL BE CONSTRUCTED TO THE DIMENSIONS SHOWN. TERMINAL WIDTHS SHALL BE ADJUSTED AS NECESSARY TO MATCH RECEIVING CHANNELS.
 2. EXTEND RIPRAP ON BACK SIDE OF APRON TO AT LEAST 1/2 DEPTH OF PIPE ON BOTH SIDES TO PREVENT SCOUR AROUND THE PIPE.

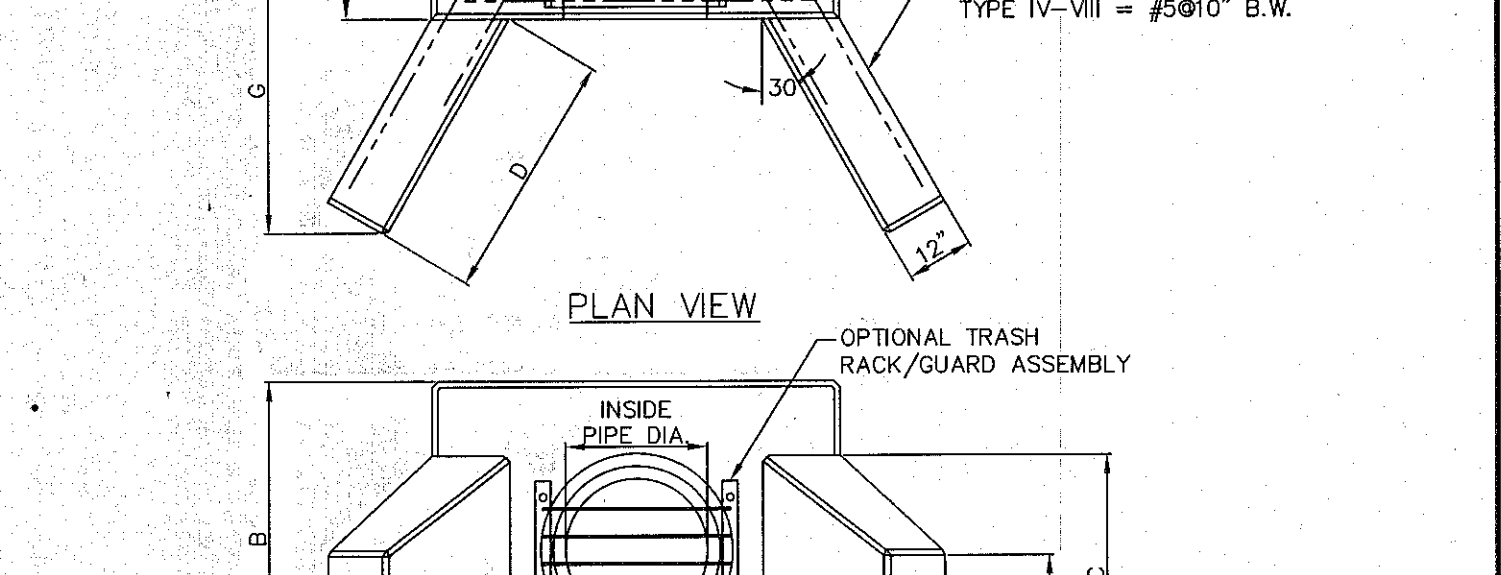
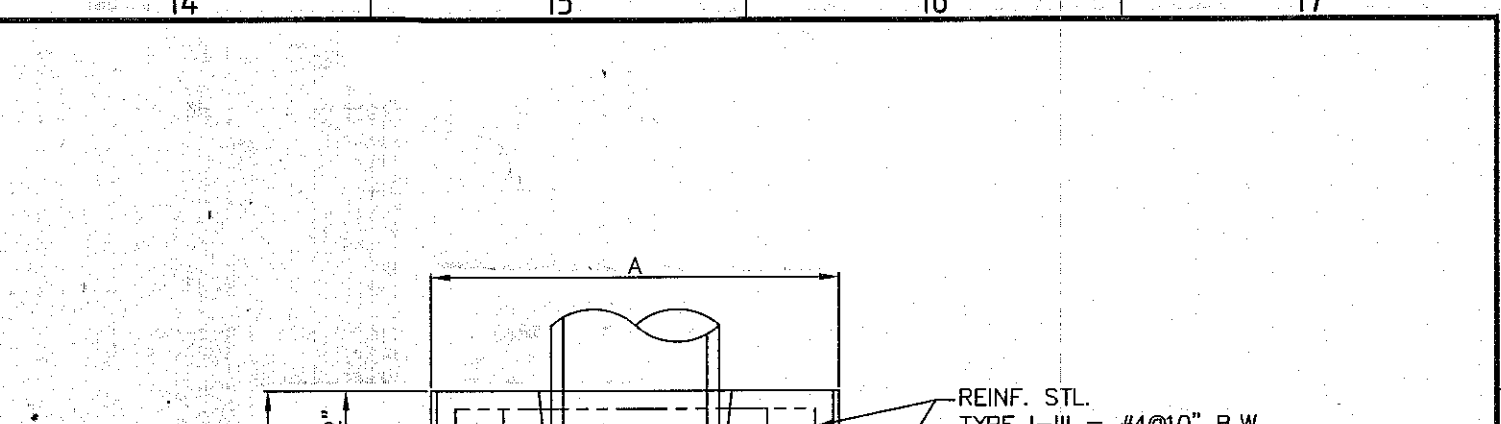
STANDARD CONSTRUCTION DETAIL #9-2
RIPRAP APRON AT PIPE OUTLET NO FLARED ENDWALL



BASIN OR TRAP NO.	PIPE SIZE (IN)	S (IN)	NO. OF COLLARS	RISER TO FIRST COLLAR (FT)	COLLAR SPACING (FT)
01	21	45	2	10	7

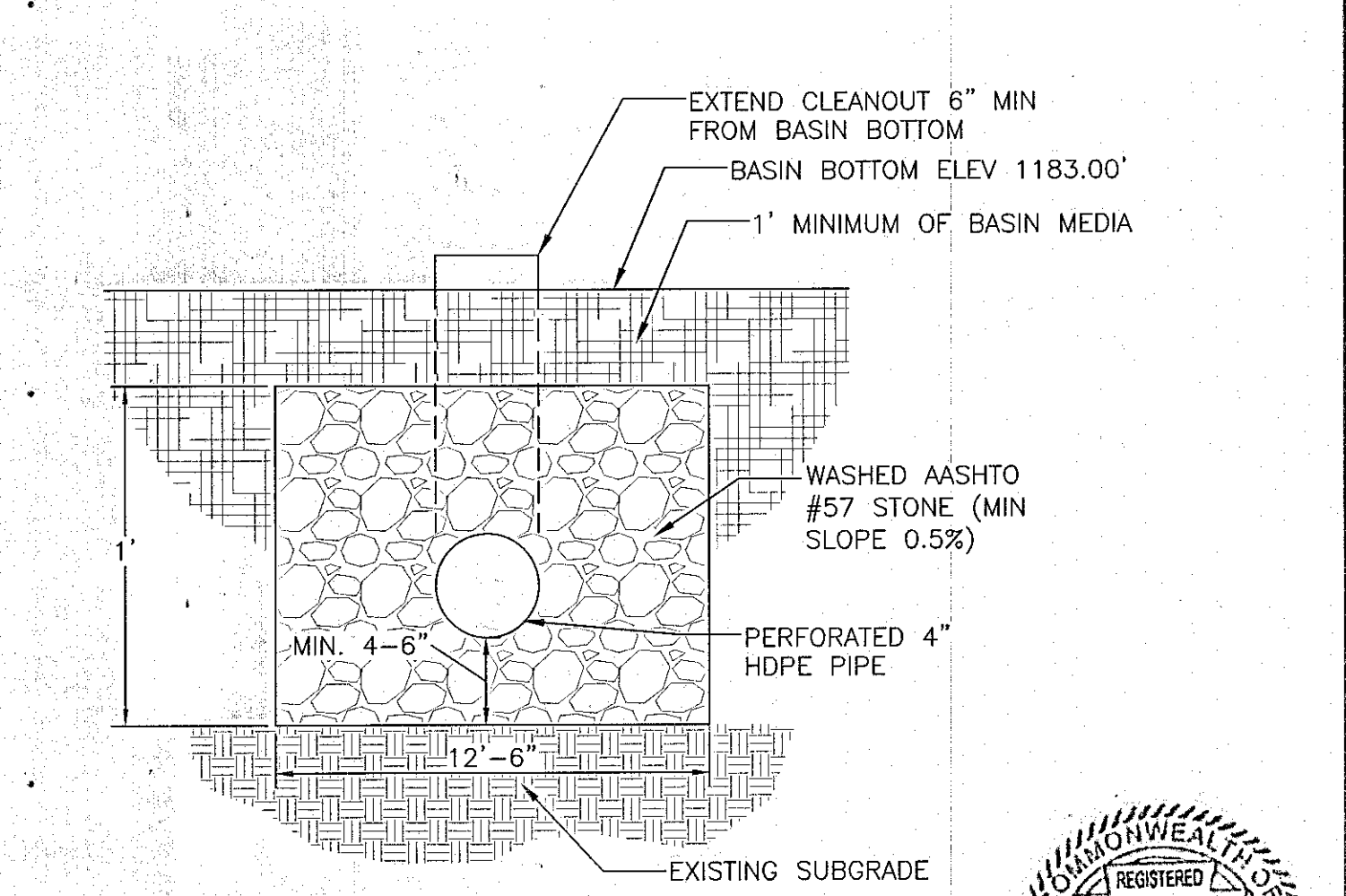
- NOTES:
1. ALL COLLARS SHALL BE INSTALLED SO AS TO BE WATERTIGHT.
 2. COLLAR SIZE AND SPACING SHALL BE AS INDICATED WITHIN TABLE.

STANDARD CONSTRUCTION DETAIL #7-16
CONCRETE ANTI-SEEP COLLAR FOR PERMANENT BASIN OR TRAP



TYPE	INSIDE PIPE DIA. (IN)	WEIGHT (LB)	A (IN)	B (IN)	C (IN)	D (IN)	E (IN)	F (IN)	G (IN)
I	12-15	3400	56	39	26	36	122	86	44
II	18-21	4880	64	48	36	39	20	96	48
III	24-27	5270	68	52	40	42	24	104	48
IV	30-36	9250	79	65	54	63	28	134	67
V	42	9500	88	71	54	63	28	143	67
VI	48	12780	96	78	66	81	30	170	83
* VII	54-60	32830	122	108	99	97	51	211	96
* VIII	72	41361	142	122	113	110	51	245	107

PA TYPE "DW" ENDWALL CULVERT DETAIL



BASIN TRENCH DETAIL



5	11/4/2024	Updated per Mercer Co Regional Planning Commission email from Nov 1, 2024	A.N.	J.C.S.	K.M.S.
4	9/19/2024	Updated per Mercer Co Regional Planning Commission meeting from July 31, 2024	A.N.	J.C.S.	K.M.S.
3	1/17/2024	Updated per Mercer CCD Review Letter Dated Dec 19, 2023	A.N.	J.C.S.	K.M.S.
2	11/6/2023	Updated per Mercer CCD Verbal Comments on Nov 2, 2023	A.N.	J.C.S.	K.M.S.
1	10/11/2023	Updated per Mercer CCD Review Letter Dated Sept 12, 2023	A.N.	J.C.S.	K.M.S.
0	6/30/2023	Preliminary Land Development Plan - Issued for Permitting	A.N.	J.C.S.	K.M.S.

CONTRACTOR'S LOGO: WSP

PROJECT: MC SOLAR PROJECT
WEST SALEM TOWNSHIP, PA 16125, USA

FILE NAME:

CLASSIFICATION: ANSI D

FORMAT: AS SHOWN

SCALE: 311

UTILIZATION SCOPE: TITLE: PSCM DETAILS-1

Engineering & Construction

VALIDATION

VERIFIED BY:

GROUP: FUNCTION: TYPE: ISSUER: COUNTRY: TEC: PLANT: SYSTEM: PROGRESSIVE: REVISION:

CONSTRUCTION SEQUENCE:

EXCAVATE SEDIMENT BASIN 01 TO THE PROPOSED SEDIMENT BASIN FLOOR ELEVATIONS (2' ABOVE PERMANENT BASIN ELEVATION).

EXCAVATE THE INSIDE EMBANKMENT AREA TO EMBANKMENT FINAL ELEVATIONS

INSTALL BASIN OUTLET STRUCTURE, PIPE, ENDWALL, AND RIPRAP OUTLET PROTECTION PER THE DETAILS. PLACE TEMPORARY PLYWOOD COVERS AND TEMPORARY RISER EXTENSION ON THE PERMANENT OUTLET STRUCTURE LOW AND HIGH FLOW ORIFICES.

INSTALL TEMPORARY STUB PIPE AND SEDIMENT CONTROL RISER, WITH TRASH RACK/ANTI VORTEX DEVICE.

GRADE BASIN EMBANKMENTS.

TEMPORARILY STABILIZE BASIN FLOOR WITH TEMPORARY SEEDING MIX AND MULCH.

PERMANENTLY STABILIZE BASIN INSIDE EMBANKMENTS WITH TOPSOIL, PERMANENT SEED MIXTURE, MULCH AND RIP-RAP PERMANENTLY STABILIZE THE REMAINDER OF THE BASIN EMBANKMENT BERM WITH TOPSOIL, FORMULA ERNMX-177 SEED MIXTURE, MULCH.

INSTALL PROTECTIVE FENCING AROUND SEDIMENT BASIN AT INSIDE EDGE OF ACCESS BERMS.

ONCE UPSTREAM DRAINAGE AREA HAS ACHIEVED 90% VEGETATIVE OR OTHER PERMANENT STABILIZATION THE SEDIMENT BASIN CAN BE CONVERTED TO ITS PERMANENT CONDITION.

REMOVE TEMPORARY RISER AND STUB PIPE AND ALL TEMPORARY PLYWOOD COVERS FROM OUTLET STRUCTURE. REPAIR AND SEAL PERMANENT OUTLET STRUCTURE WHERE TEMPORARY STUB REMOVAL OCCURRED.

REMOVE CLEAN OUT STAKE AND BAFFLES AND EXCAVATE SEDIMENT BASIN FLOORS TO PERMANENT BASIN FLOOR ELEVATIONS. WORKING CAREFULLY TO NOT COMPACT SUBSOILS. EQUIPMENT SHALL WORK FROM SEDIMENT BASIN ELEVATION AND NOT OPERATE DIRECTLY ON THE THE FINAL BASIN ELEVATIONS IN ORDER TO MINIMIZE SOIL COMPACTION AT THE BASIN FLOOR ELEVATION.

INSTALL BASIN TRENCH SYSTEM.

PERMANENTLY STABILIZE BASIN FLOORS WITH ERNMX-177 SEED MIXTURE, MULCH, SOIL SUPPLEMENTS AND EROSION CONTROL MULCH BLANKETS.

IF EXTENDED DRY CONDITIONS ARE EXPERIENCED DURING BASIN CONVERSION, WATER BASIN FLOOR AS REQUIRED TO ESTABLISH PLANTING AND SEEDING GERMINATION.

OBSERVE INFILTRATION BASIN FOR 80 HOURS AFTER RUNOFF EVENTS TO ENSURE PROPER FUNCTION AND DRAINING OF THE BASIN.

MAINTENANCE AND INSPECTION:

MAINTENANCE IS NECESSARY TO ENSURE PROPER FUNCTIONALITY OF THE INFILTRATION BASIN AND SHOULD TAKE PLACE ON A QUARTERLY BASIS. A BASIN MAINTENANCE PLAN SHOULD BE DEVELOPED WHICH INCLUDES THE FOLLOWING MEASURES:

ALL BASIN STRUCTURES EXPECTED TO RECEIVE AND/OR TRAP DEBRIS AND SEDIMENT SHOULD BE INSPECTED FOR CLOGGING AND EXCESSIVE DEBRIS AND SEDIMENT ACCUMULATION AT LEAST FOUR TIMES PER YEAR, AS WELL AS AFTER EVERY STORM GREATER THAN 1 INCH.

STRUCTURES INCLUDE BASIN BOTTOMS, TRASH RACKS, OUTLETS STRUCTURES, RIPRAP, AND INLETS.

SEDIMENT REMOVAL SHOULD BE CONDUCTED WHEN THE BASIN IS COMPLETELY DRY. SEDIMENT SHOULD BE DISPOSED OF PROPERLY AND ONCE SEDIMENT IS REMOVED, DISTURBED AREAS NEED TO BE IMMEDIATELY STABILIZED AND REVEGETATED.

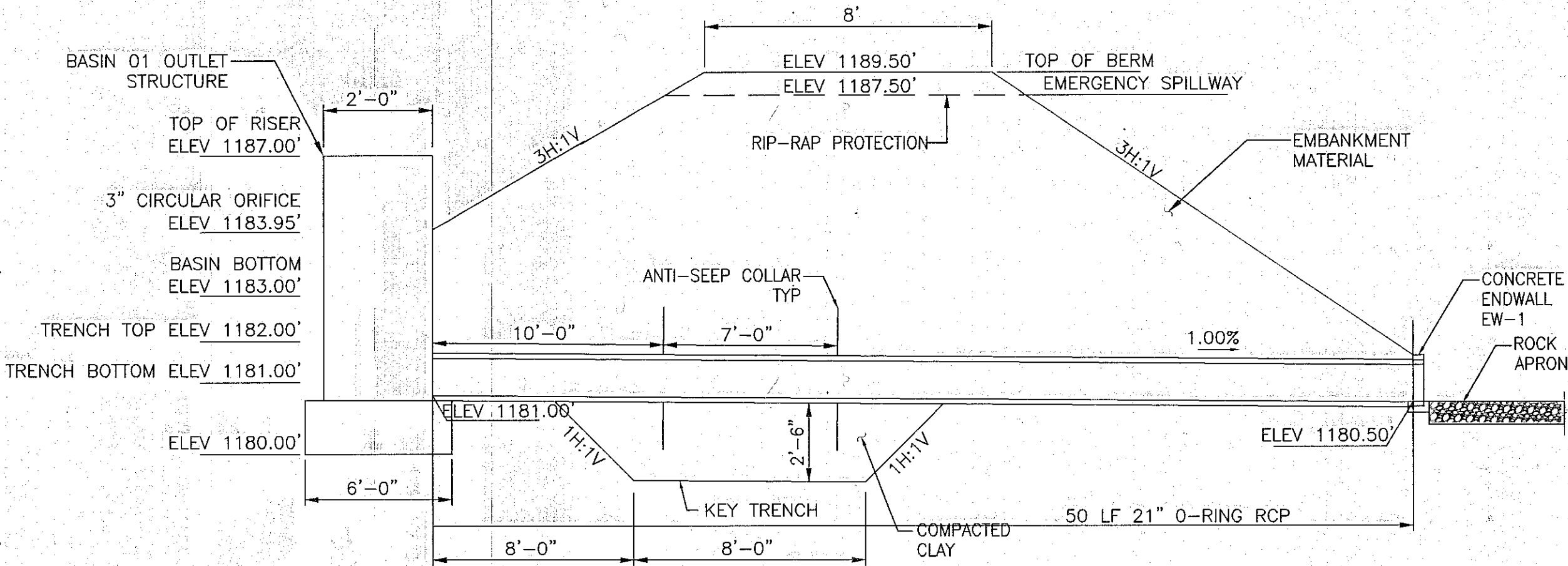
MOWING AND/OR TRIMMING OF VEGETATION SHOULD BE PERFORMED AS NECESSARY TO SUSTAIN THE SYSTEM, BUT ALL DETRITUS SHOULD BE REMOVED FROM THE BASIN.

VEGETATED AREAS SHOULD BE INSPECTED ANNUALLY FOR EROSION.

VEGETATED AREAS SHOULD BE INSPECTED ANNUALLY FOR UNWANTED GROWTH OF EXOTIC/INVASIVE SPECIES.

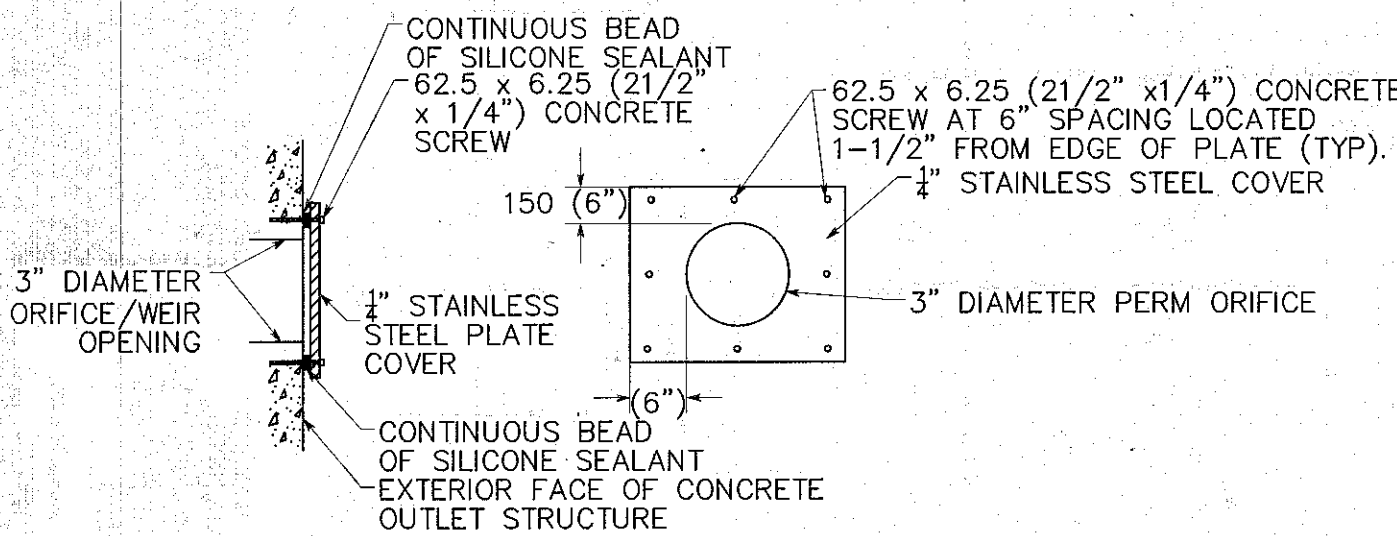
VEGETATIVE COVER SHOULD BE MAINTAINED AT A MINIMUM OF 95 PERCENT. IF VEGETATIVE COVER HAS BEEN REDUCED BY 10%, VEGETATION SHOULD BE REESTABLISHED.

IN THE EVENT THE BASIN DOES NOT FULLY DRAIN WITHIN 80 HOURS, THE GATE VALVE SHALL BE UTILIZED TO DRAIN THE REMAINDER OF THE STORMWATER FROM THE BASIN.



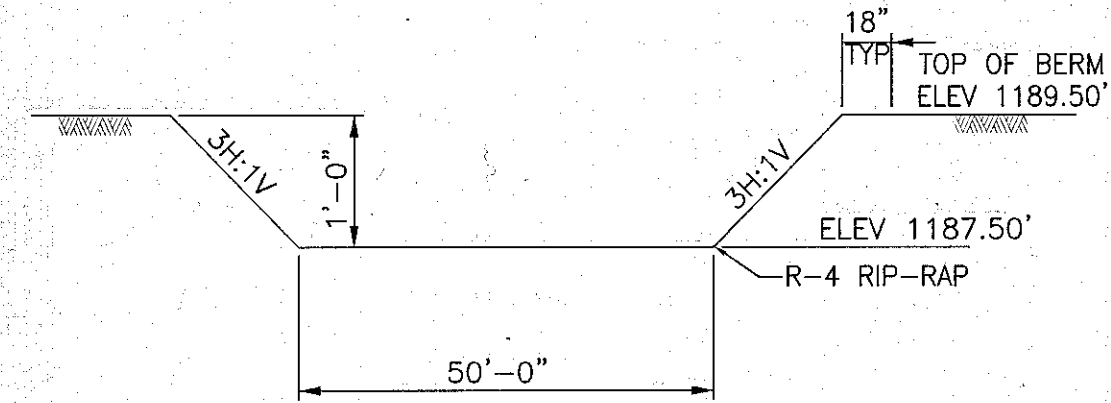
PARTIAL SECTION AT BASIN 01 OUTLET

NOT TO SCALE



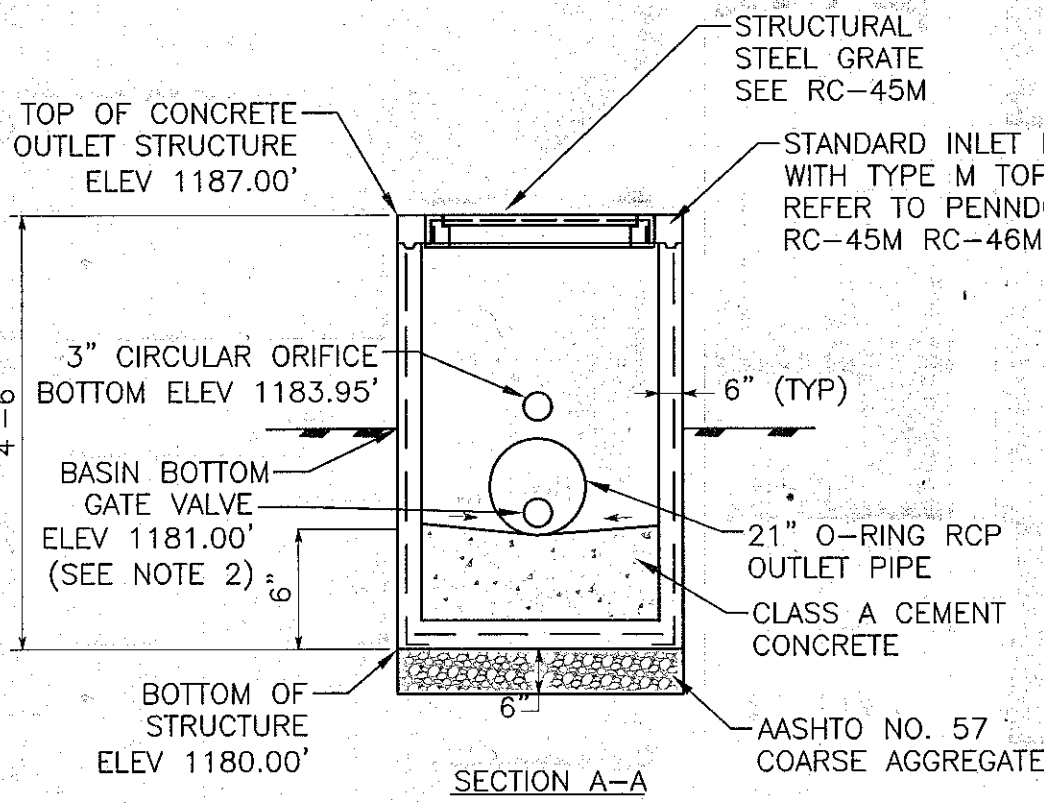
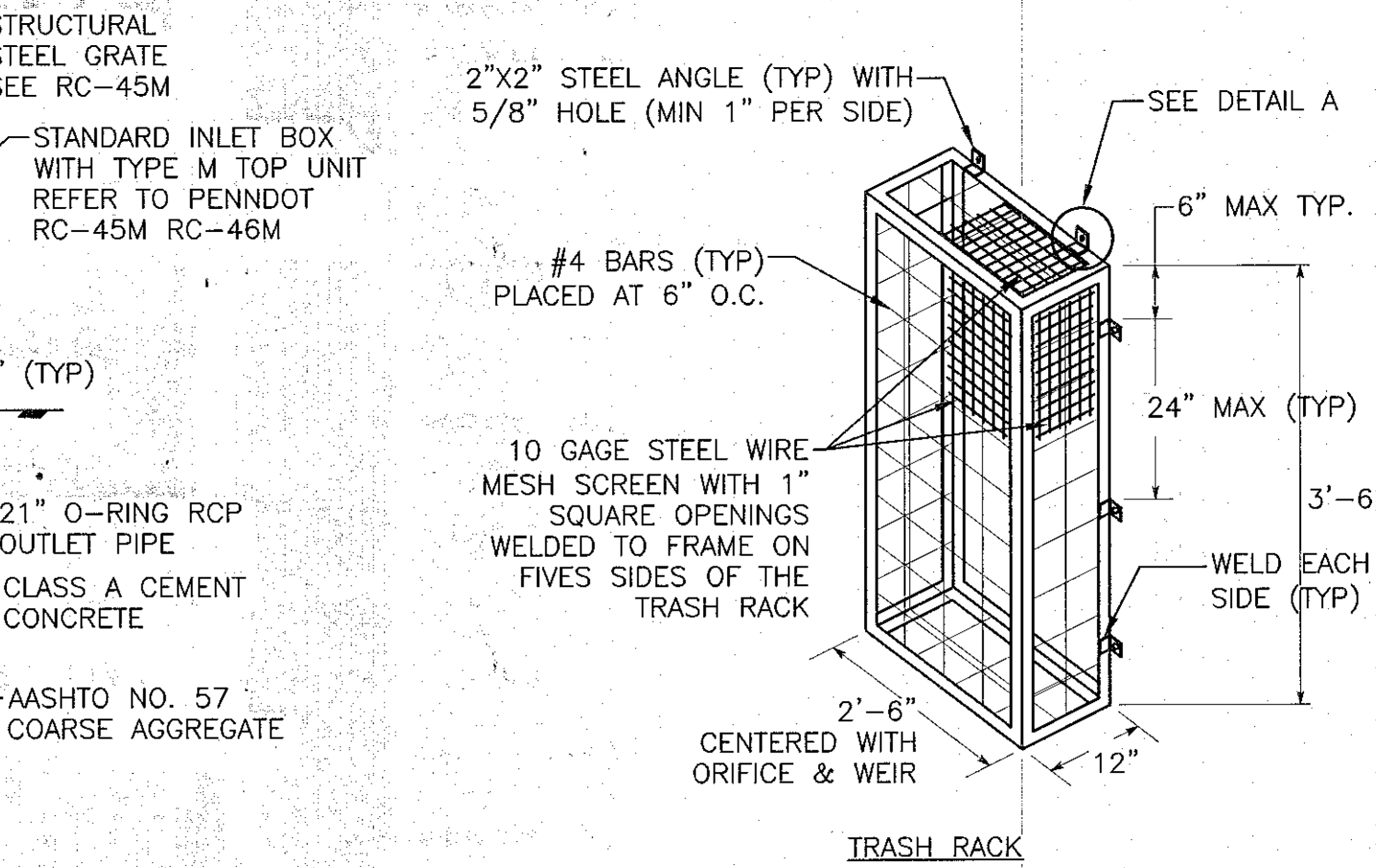
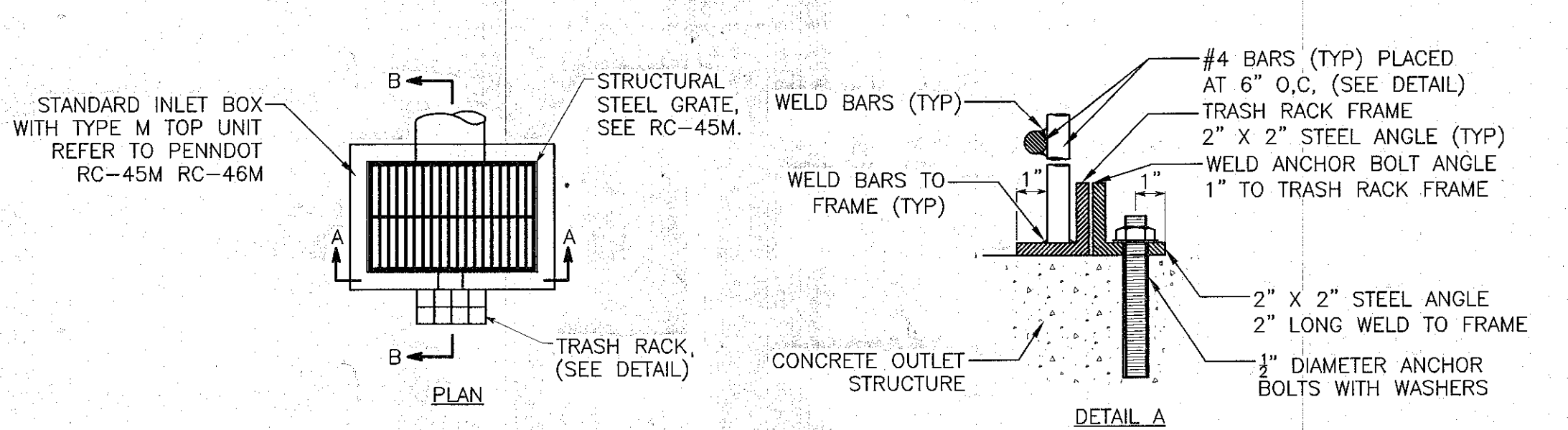
PERMANENT ORIFICE PLATE

NOT TO SCALE

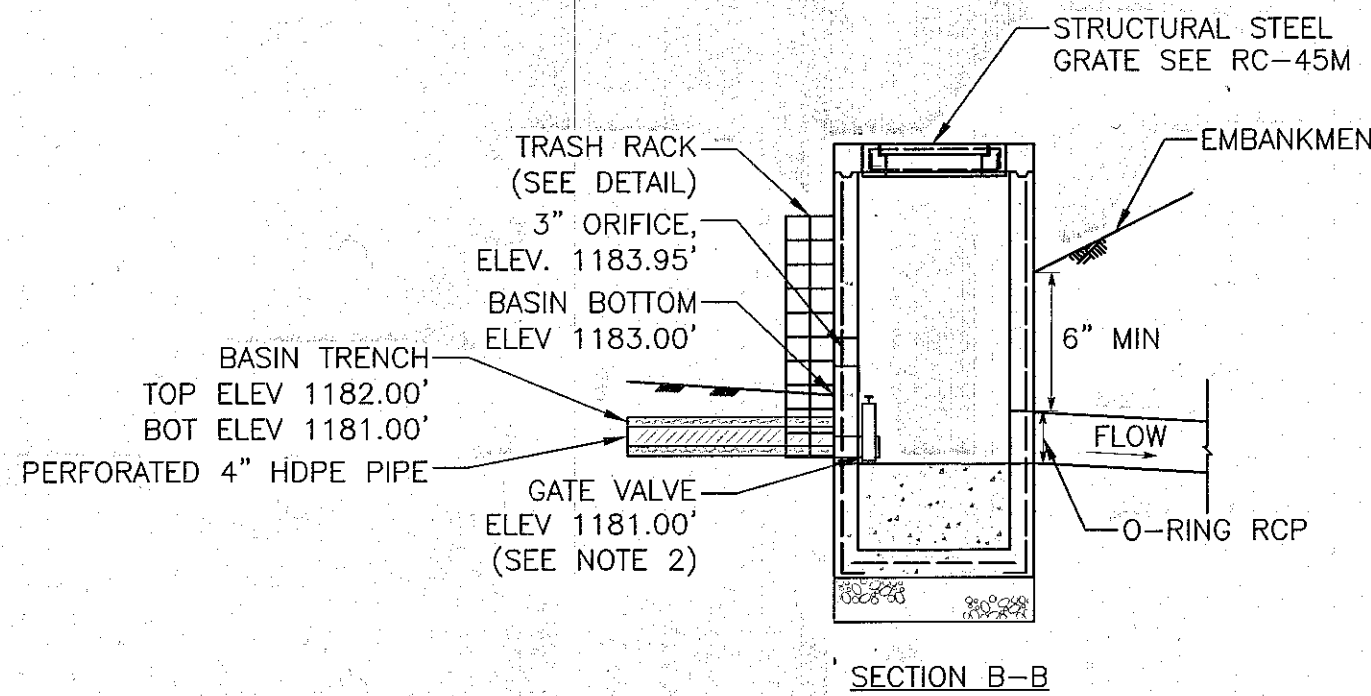


TYPICAL SECTION OF EMERGENCY SPILLWAY BASIN 01

NOT TO SCALE



SECTION A-A



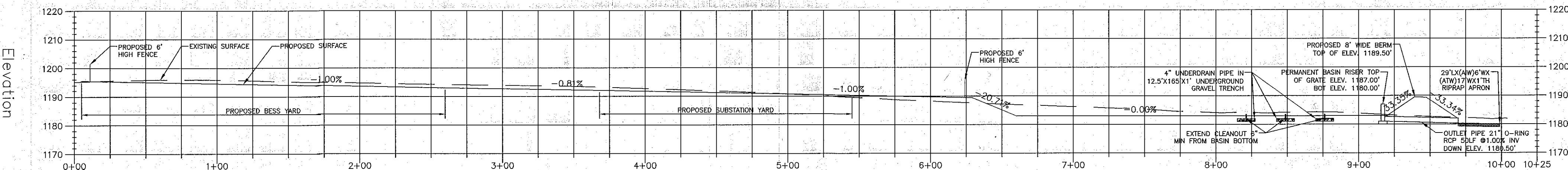
SECTION B-B

NOTES:

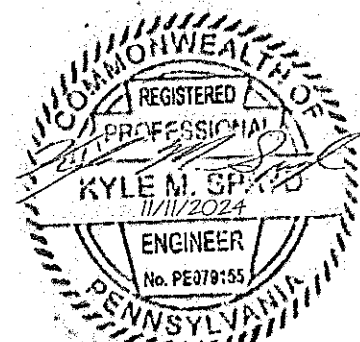
- FORM BOTTOM OF OUTLET STRUCTURE TO CHANNEL THE FLOW TOWARD THE OUTLET PIPE.
- 4" SOCKET X SOCKET GRAY PVC KNIFE GATE VALVE BY PRAHER PLASTICS CANADA LTD., OR APPROVED EQUAL.

CONCRETE OUTLET STRUCTURE

NOT TO SCALE



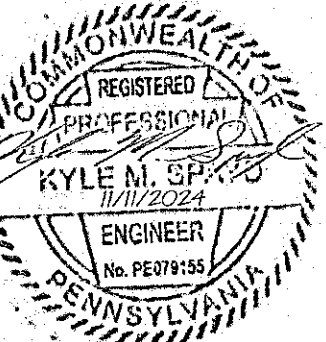
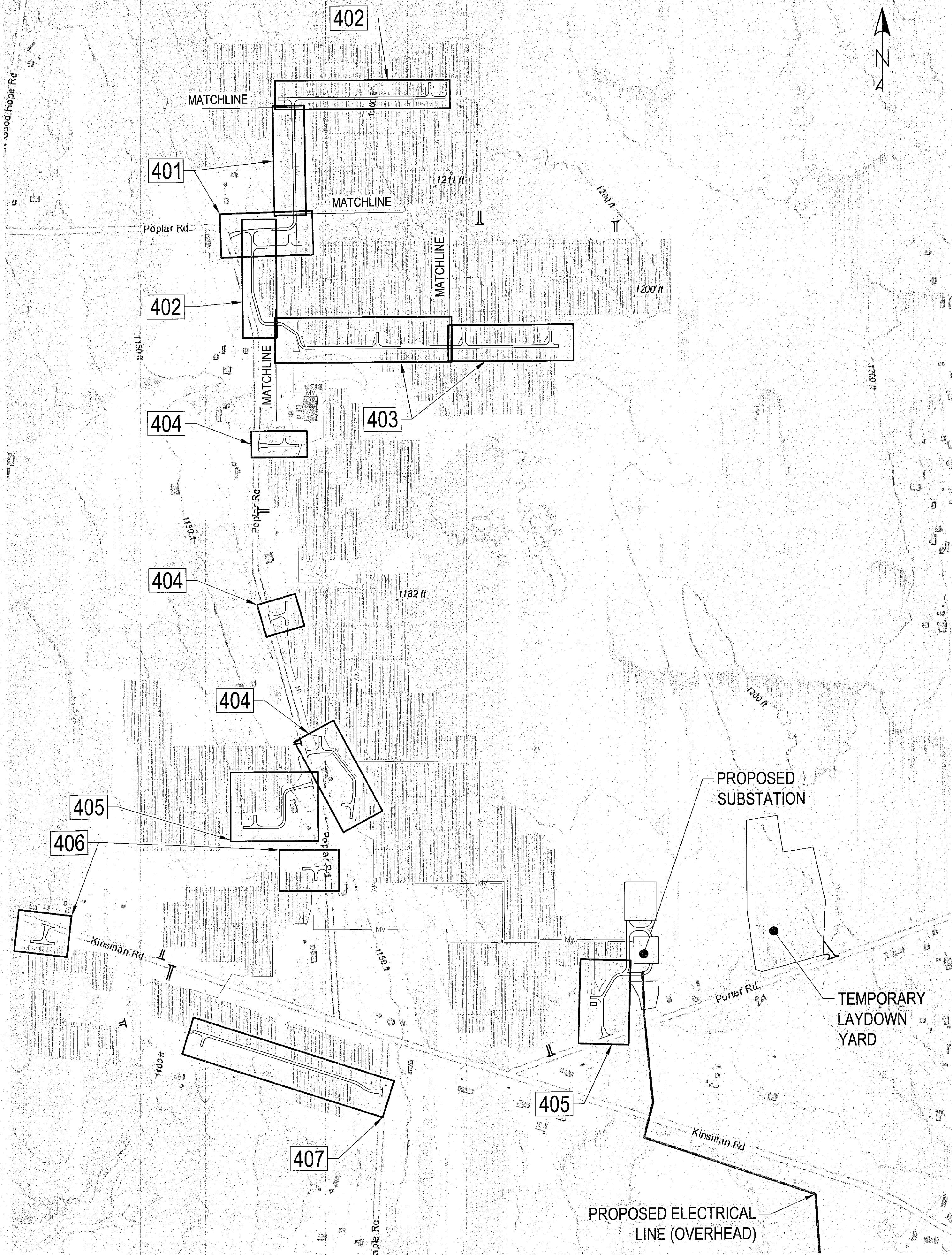
S 1 BESS, SUBSTATION YARD, AND BASIN SECTION
207 HORIZONTAL SCALE: 1" = 50'
VERTICAL SCALE: 1" = 25'




5	11/4/2024	Updated per Mercer Co Regional Planning Commission email from Nov 1, 2024	A.N.	J.C.S.	K.M.S.
4	9/19/2024	Updated per Mercer Co Regional Planning Commission meeting from July 31, 2024	A.N.	J.C.S.	K.M.S.
3	1/17/2024	Updated per Mercer CCD Review Letter Dated Dec 19, 2023	A.N.	J.C.S.	K.M.S.
2	11/6/2023	Updated per Mercer CCD Verbal Comments on Nov 2, 2023	A.N.	J.C.S.	K.M.S.
1	10/11/2023	Updated per Mercer CCD Review Letter Dated Sept 12, 2023	A.N.	J.C.S.	K.M.S.
0	6/30/2023	Preliminary Land Development Plan - Issued for Permitting	A.N.	J.C.S.	K.M.S.

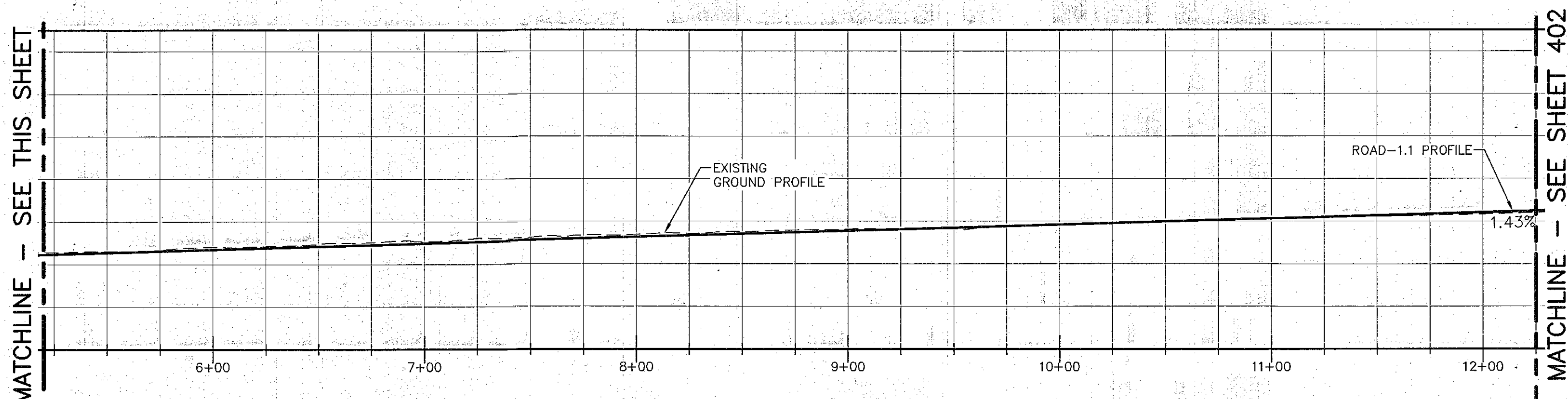
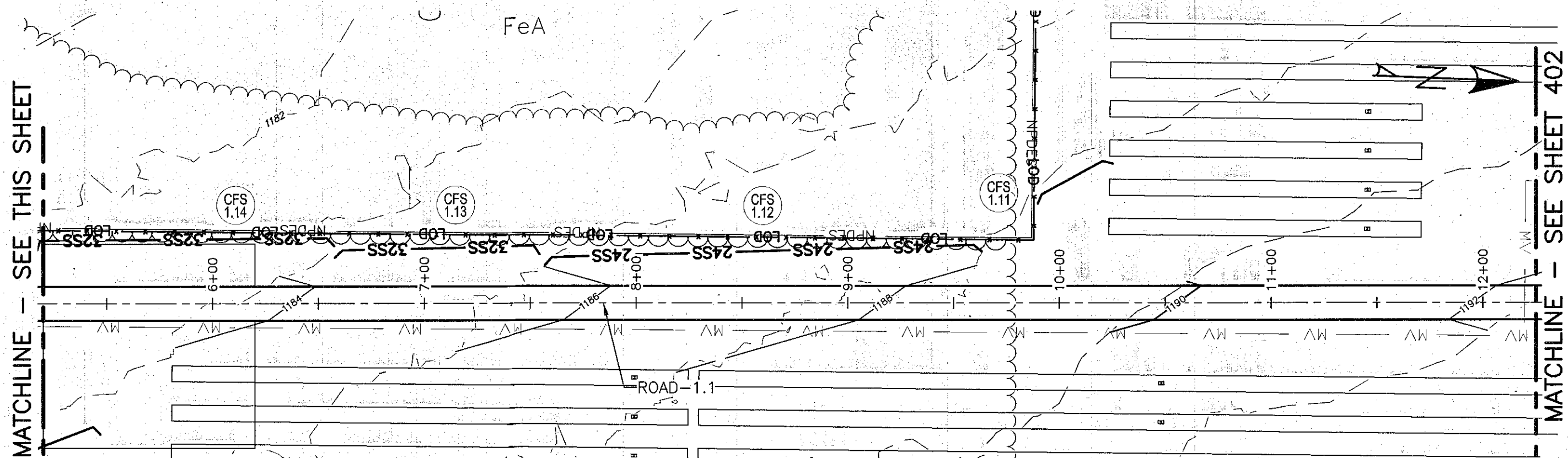
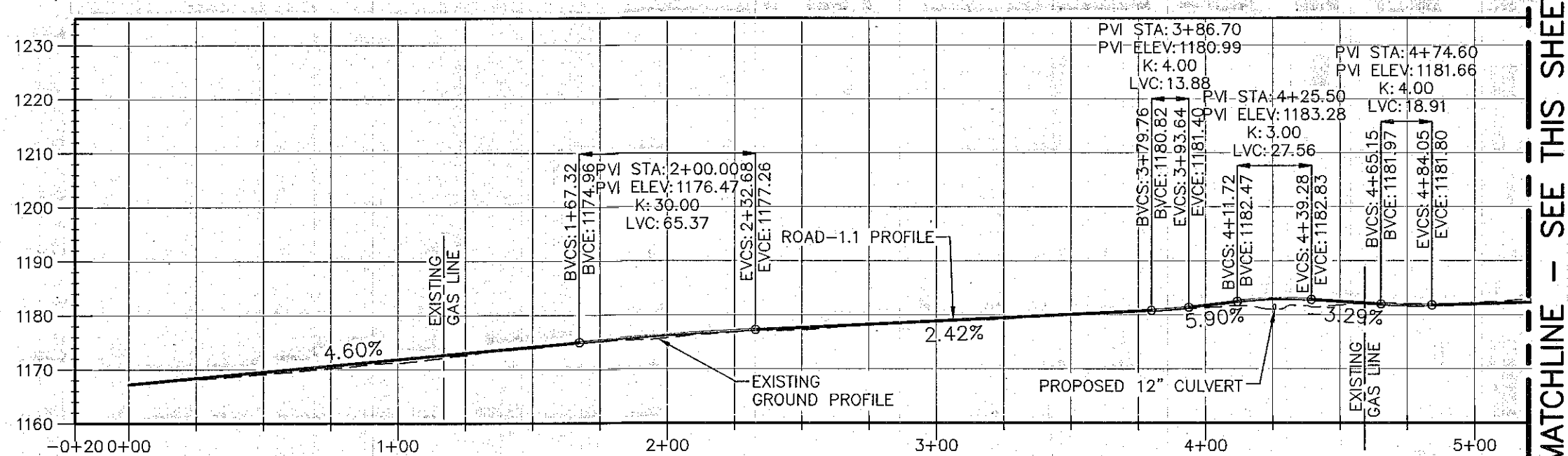
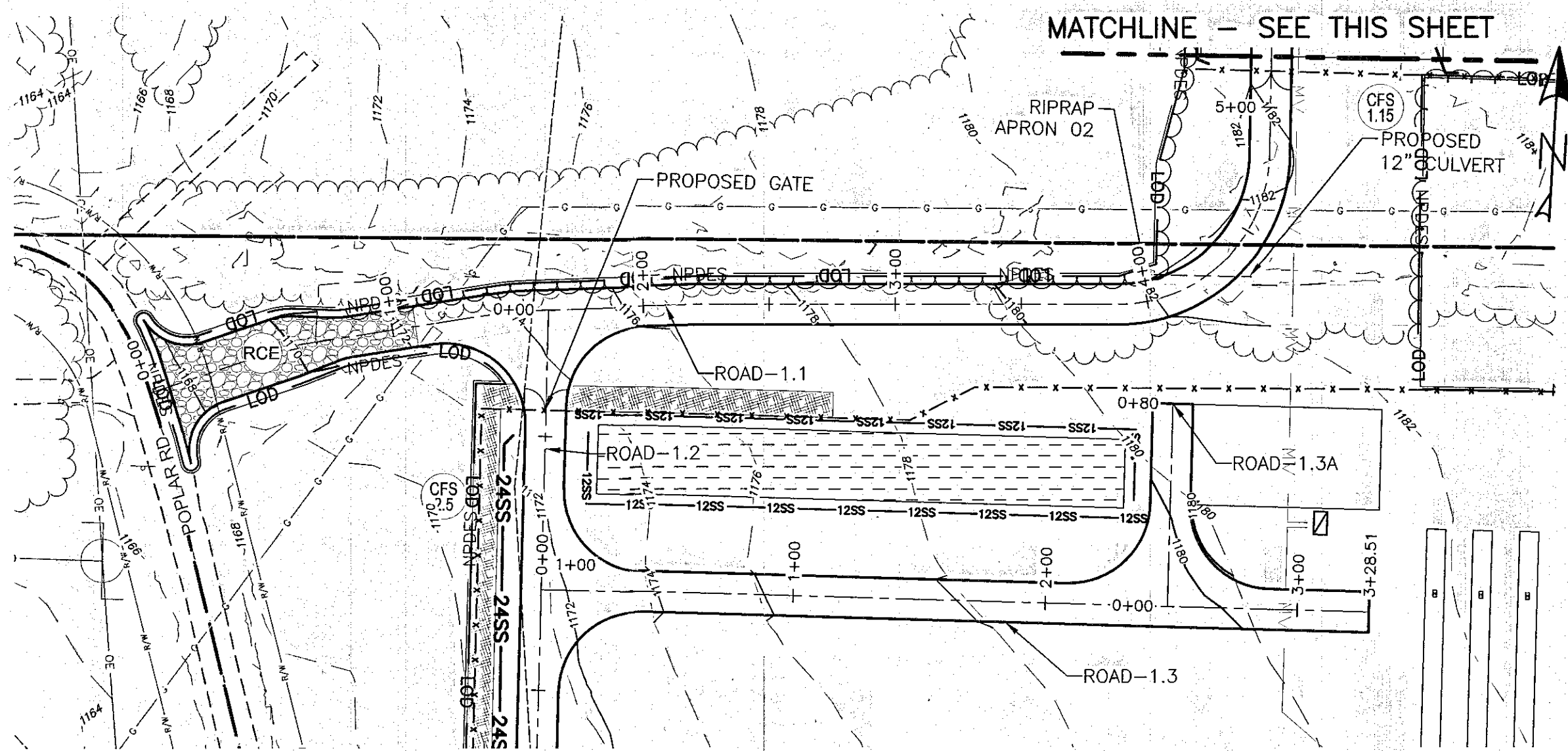
REV.	DATE	DESCRIPTION	PREPARED	CHECKED	APPROVED

wsp	PROJECT: MC SOLAR PROJECT WEST SALEM TOWNSHIP, PA 16125, USA				
	FILE NAME:				
	CLASSIFICATION:	FORMAT: ANSI D	SCALE: AS SHOWN	PLOT SCALE:	SHEET: 312
	UTILIZATION SCOPE:	TITLE: PSCM DETAILS-2			
Engineering & Construction VALIDATION	CODE				
VALIDATED BY:					
VERIFIED BY:					
COLLABORATORS					

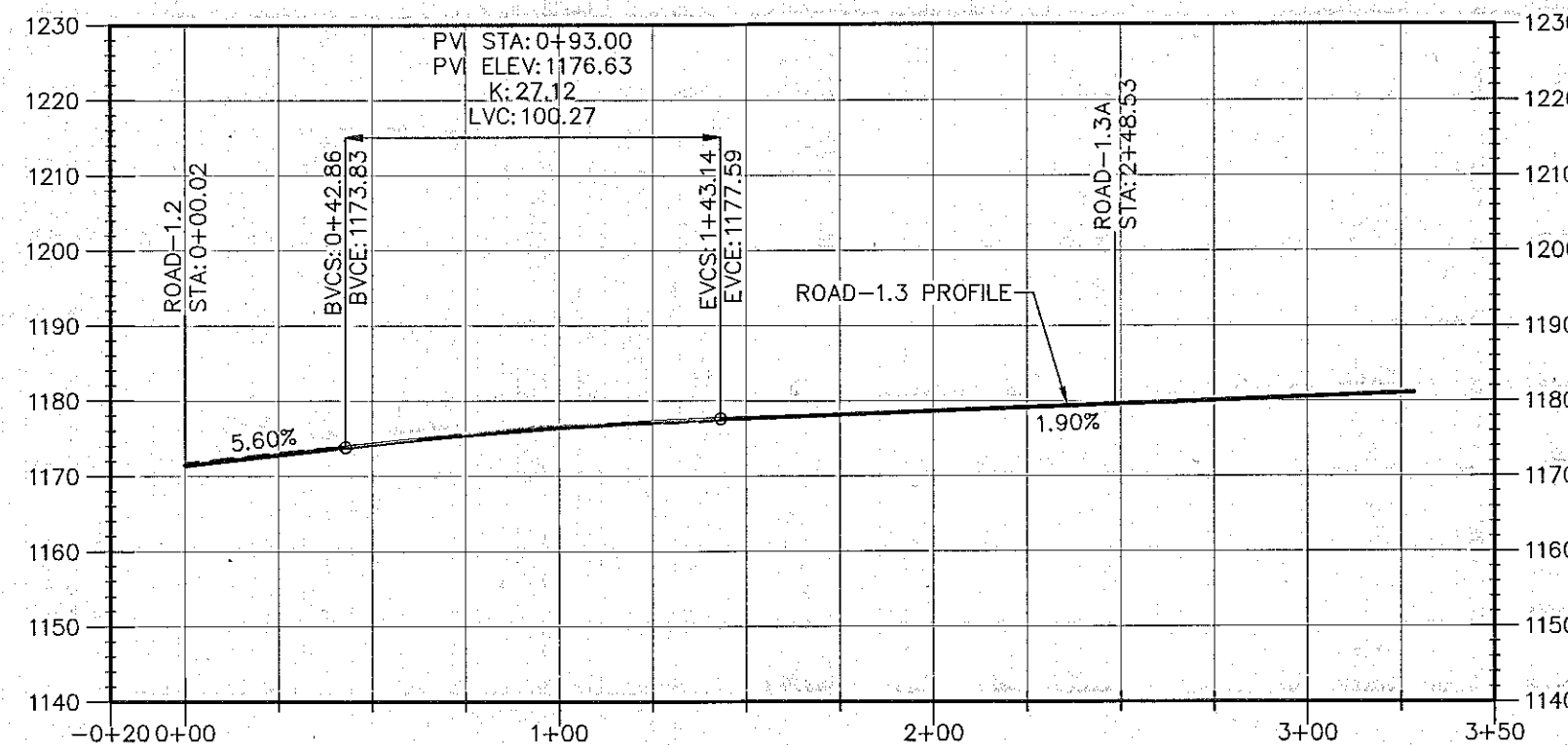


5	11/4/2024	Updated per Mercer Co Regional Planning Commission email from Nov 1, 2024	A.N.	J.C.S.	K.M.S.
4	9/19/2024	Updated per Mercer Co Regional Planning Commission meeting from July 31, 2024	A.N.	J.C.S.	K.M.S.
3	1/17/2024	Updated per Mercer CCD Review Letter Dated Dec 19, 2023	A.N.	J.C.S.	K.M.S.
2	11/6/2023	Updated per Mercer CCD Verbal Comments on Nov 2, 2023	A.N.	J.C.S.	K.M.S.
*1	10/11/2023	Updated per Mercer CCD Review Letter Dated Sept 12, 2023	A.N.	J.C.S.	K.M.S.
0	6/30/2023	Preliminary Land Development Plan - Issued for Permitting	A.N.	J.C.S.	K.M.S.
REV.	DATE	DESCRIPTION	PREPARED	CHECKED	APPROVED

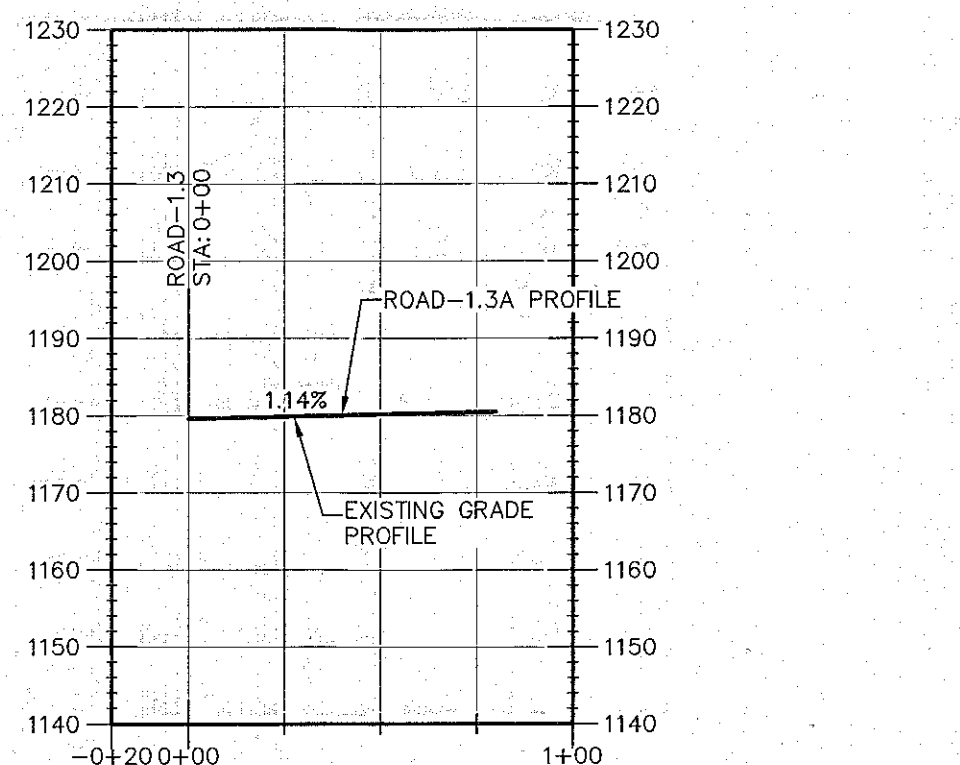
	PROJECT: MC SOLAR PROJECT WEST SALEM TOWNSHIP, PA 16125, USA									
	FILE NAME:									
	CLASSIFICATION: ANSI D	FORMAT: ANSI D	SCALE: 1" = 400'	PLOT SCALE:	SHEET: 400					
Engineering & Construction VALIDATION	TITLE: PLAN AND PROFILE-KEY PLAN									
	CODE									
VALIDATED BY:	GROUP	FUNCTION	TYPE	ISSUER	COUNTRY	TEC.	PLANT	SYSTEM	PROGRESSIVE	REVISION
VERIFIED BY:										
COLLABORATORS:										



PROPOSED ROAD 1.1 PROFILE
HORIZONTAL SCALE: 1" = 50'
VERTICAL SCALE: 1" = 25'



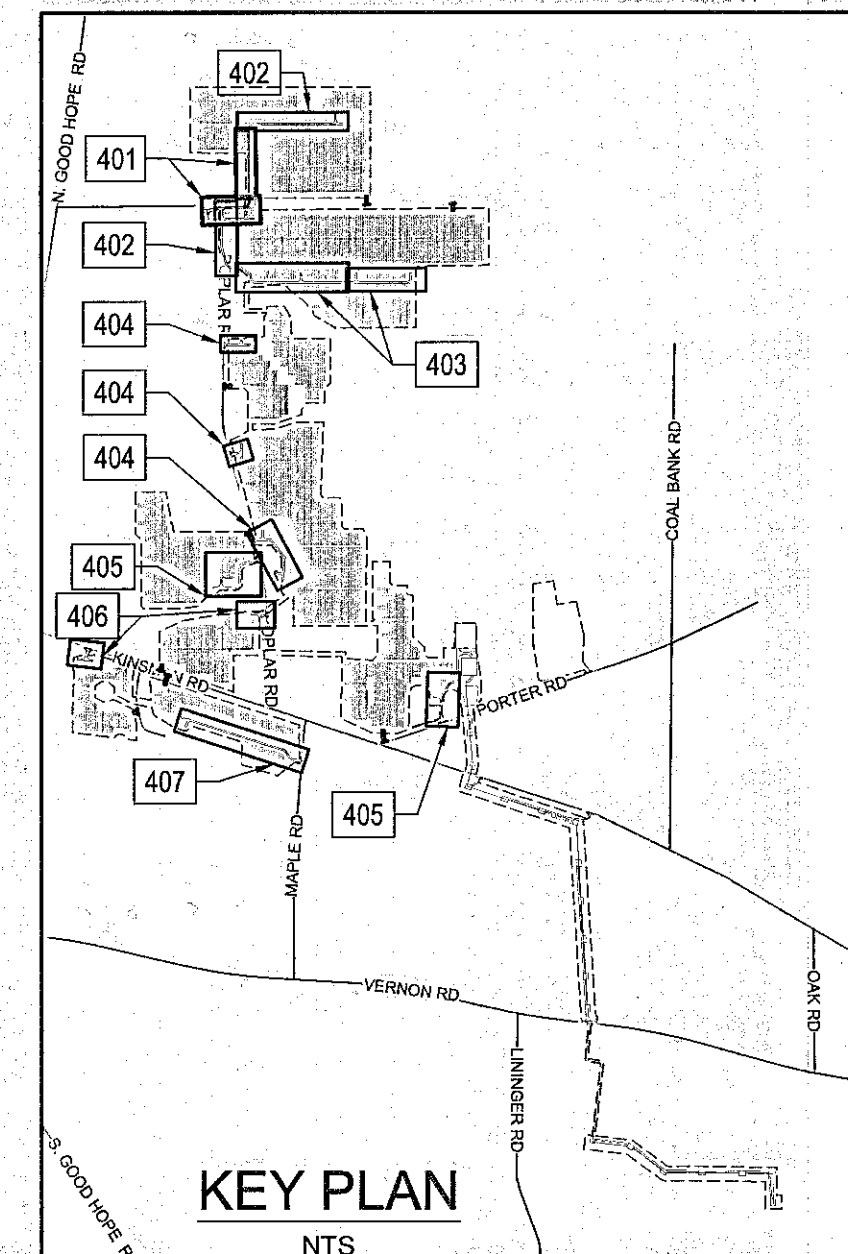
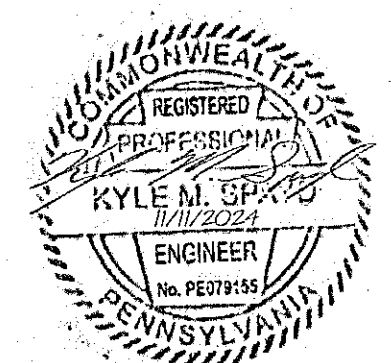
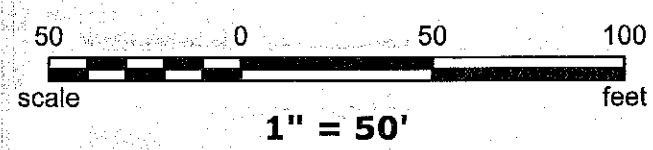
PROPOSED ROAD 1.3 PROFILE
HORIZONTAL SCALE: 1" = 50'
VERTICAL SCALE: 1" = 25'



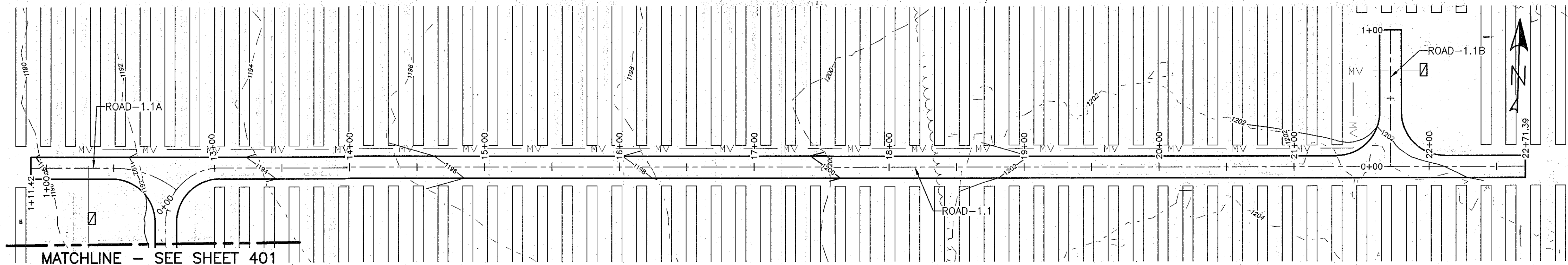
PROPOSED ROAD 1.3A PROFILE
HORIZONTAL SCALE: 1" = 50'
VERTICAL SCALE: 1" = 25'

LEGEND:

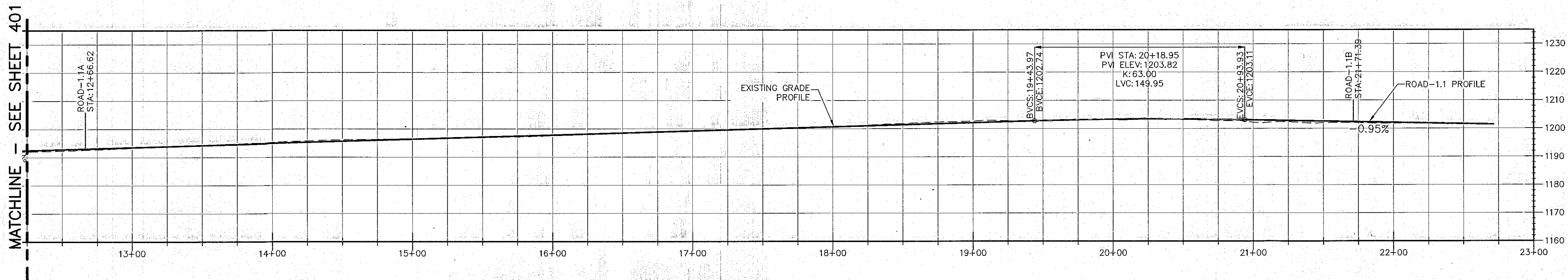
- EXISTING TREELINE
- EXISTING FENCE
- EXISTING EASEMENT
- EXISTING CONTOURS
- EXISTING UNDERGROUND FIBER OPTIC
- EXISTING ROAD RIGHT OF WAY
- EXISTING CENTERLINE OF ROAD
- EXISTING OVERHEAD ELECTRIC
- EXISTING EDGE OF GRAVEL/ASPHALT/DIRT
- EXISTING GAS LINE
- ADJOINER PARCEL
- PARTICIPATING PARCEL
- EXISTING BUILDING/STRUCTURE
- EXISTING GUY WIRE ANCHOR
- EXISTING POLE
- EXISTING SIGN
- WETLAND DELINEATION
- STREAM DELINEATION
- ASSUMED 50' FLOODWAY
- SOILS TYPE SEPARATION/ABBREVIATION
- NPDES
- PROJECT AREA/NPDES BOUNDARY
- FLOW PATH
- LIMIT OF DISTURBANCE
- PROPOSED ROADS AND PADS
- PROPOSED 2.0' CONTOUR
- PROPOSED FENCE
- 12SS 12SS 12" SILT SOCK
- 18SS 18SS 18" SILT SOCK
- 24SS 24SS 24" SILT SOCK
- 32SS 32SS 32" SILT SOCK
- MV
- PROPOSED ELEC FEEDER
- PROPOSED TREELINE
- PROPOSED ORANGE CONSTRUCTION FENCE
- PROPOSED UNDERGROUND ELECTRIC
- PROPOSED OVERHEAD WIRE CENTER LINE
- PROPOSED BERM
- PROPOSED BAFFLE
- PROPOSED PHOTOVOLTAIC ARRAY
- PROPOSED PIPE AND ENDWALL
- PROPOSED GATE
- CONCRETE WASHOUT
- PROPOSED BASIN STRUCTURE
- TEST PIT
- SILT SOCK ID LABEL
- PROPOSED ELECTRIC POLE
- RCE
- ROCK CONSTRUCTION ENTRANCE
- RIPRAP
- VEGETATION FILTER
- PROPOSED INVERTER
- EROSION CONTROL BLANKET
- CONSTRUCTION TIMBER MATTING
- TOPSOIL STOCKPILE
- PROPOSED SCREENING



5	11/4/2024	Updated per Mercer Co Regional Planning Commission email from Nov 1, 2024	A.N.	J.C.S.	K.M.S.
4	9/19/2024	Updated per Mercer Co Regional Planning Commission meeting from July 31, 2024	A.N.	J.C.S.	K.M.S.
3	1/17/2024	Updated per Mercer CCD Review Letter Dated Dec 19, 2023	A.N.	J.C.S.	K.M.S.
2	11/6/2023	Updated per Mercer CCD Verbal Comments on Nov 2, 2023	A.N.	J.C.S.	K.M.S.
1	10/11/2023	Updated per Mercer CCD Review Letter Dated Sept 12, 2023	A.N.	J.C.S.	K.M.S.
0	6/30/2023	Preliminary Land Development Plan - Issued for Permitting	A.N.	J.C.S.	K.M.S.
REV.	DATE	DESCRIPTION	PREPARED	CHECKED	APPROVED
CONTRACTOR'S LOGO 			PROJECT: MC SOLAR PROJECT WEST SALEM TOWNSHIP, PA 16125, USA		
FILE NAME:			CLASSIFICATION:		
UTILIZATION SCOPE:			FORMAT: ANSI D	SCALE: 1" = 50'	PLOT SCALE: 401
VALIDATION			TITLE: PLAN AND PROFILE-1		
CODE			GROUP		
FUNCTION			TYPE		
ISSUER			COUNTRY		
TEC.			PLANT		
SYSTEM			PROGRESSIVE		
REVISION			REVISION		

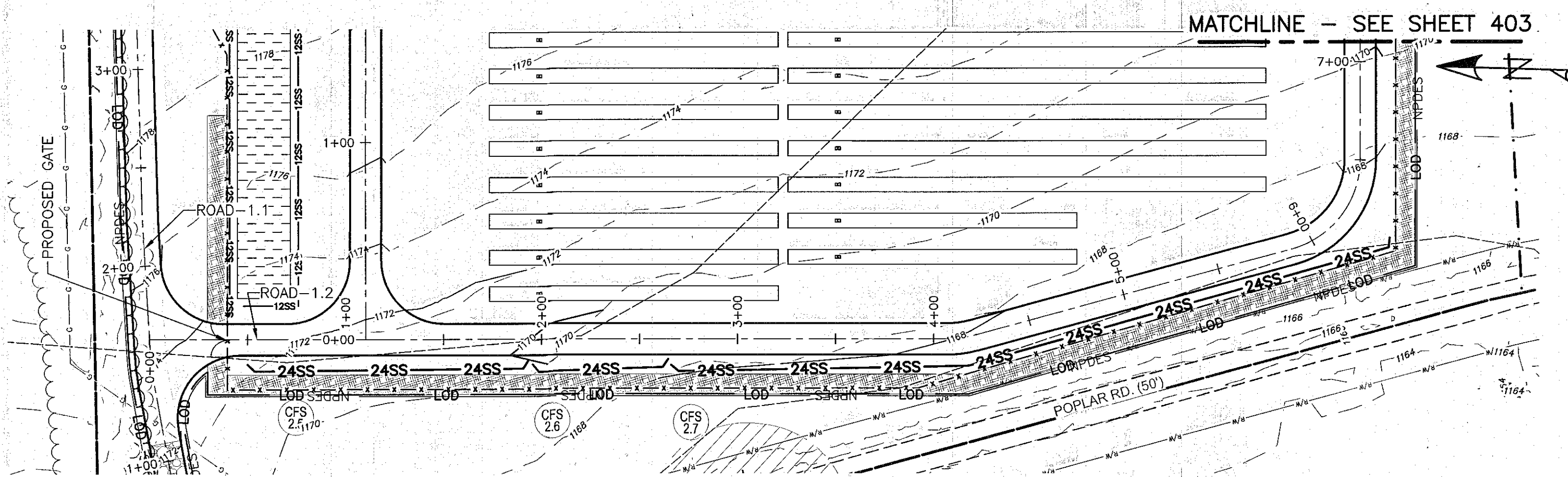


MATCHLINE - SEE SHEET 401

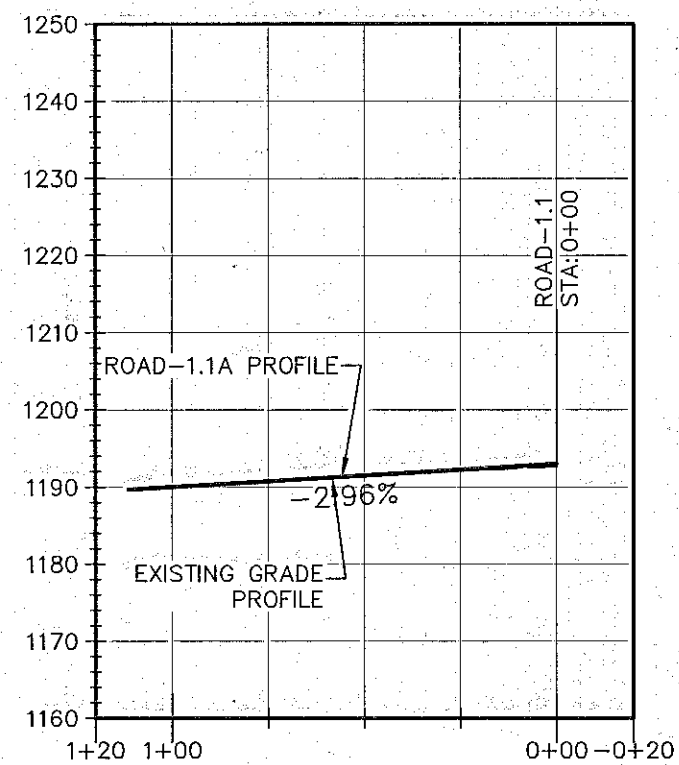


PROPOSED ROAD 1.1 PROFILE (Continued)

HORIZONTAL SCALE: 1" = 50'
VERTICAL SCALE: 1" = 25'

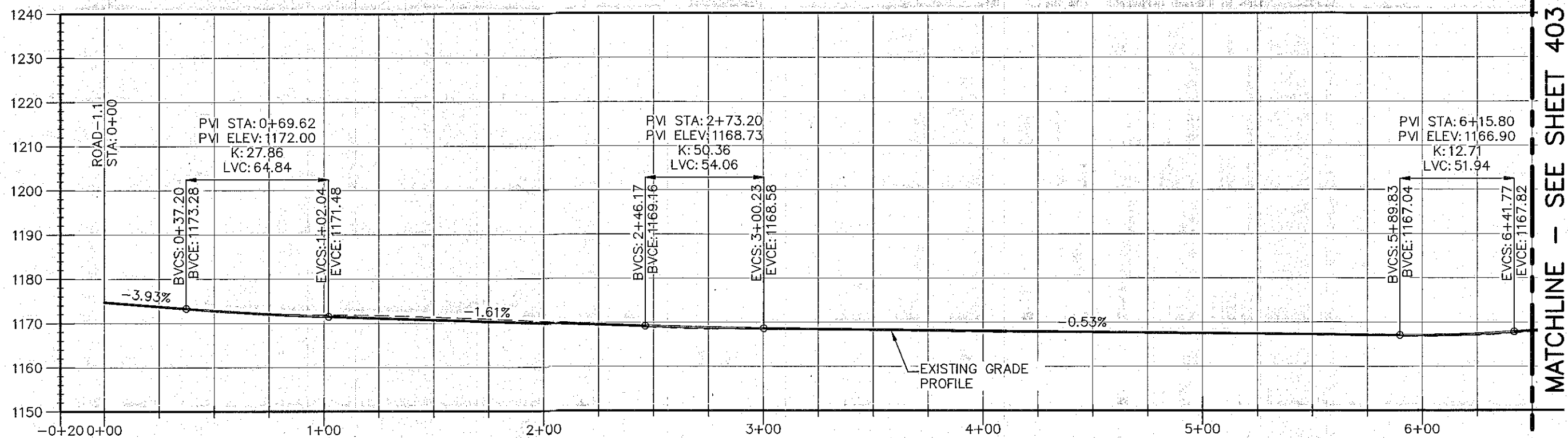


MATCHLINE - SEE SHEET 403



PROPOSED ROAD 1.1A

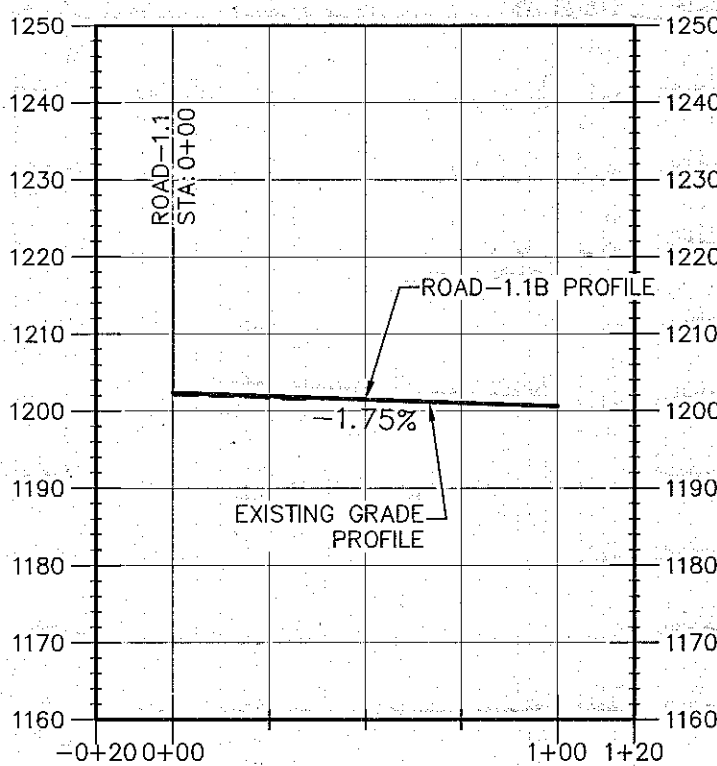
HORIZONTAL SCALE: 1" = 50'
VERTICAL SCALE: 1" = 25'



PROPOSED ROAD 1.2

HORIZONTAL SCALE: 1" = 50'
VERTICAL SCALE: 1" = 25'

MATCHLINE - SEE SHEET 403

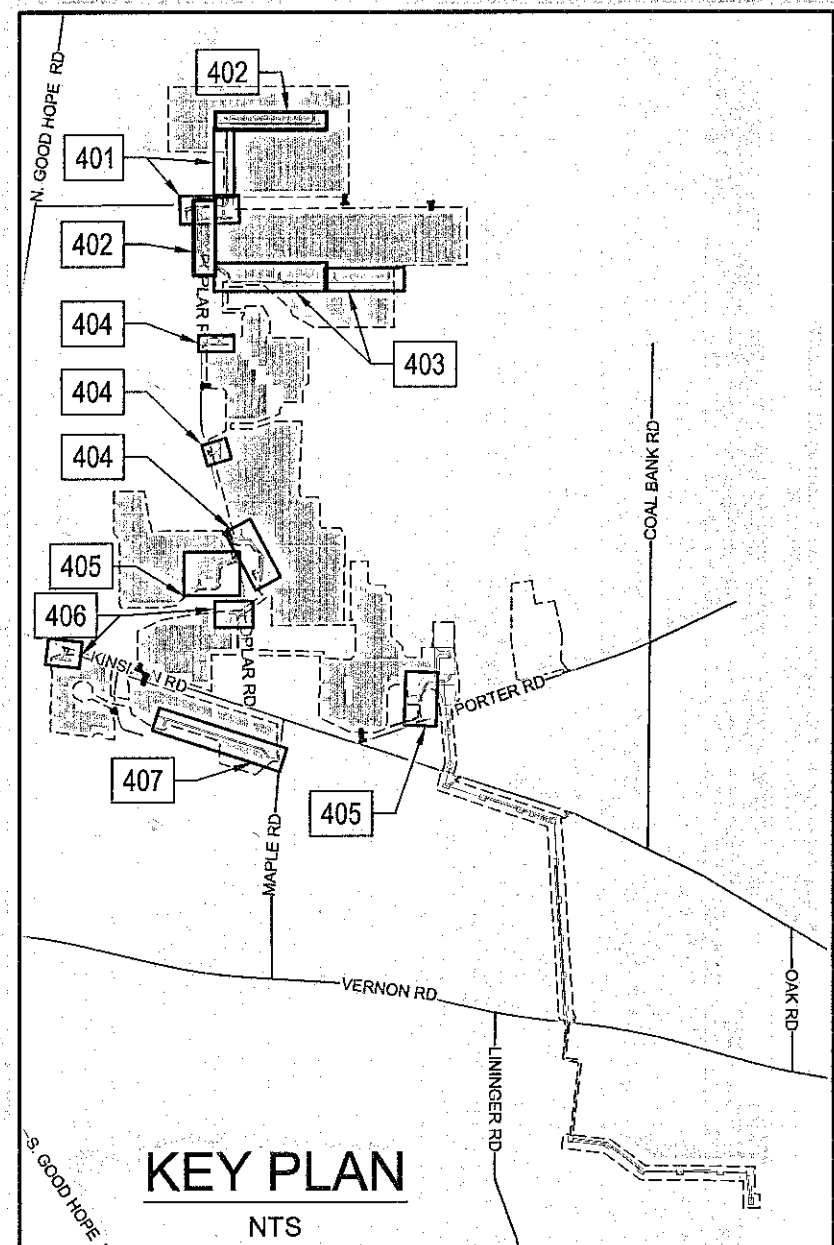
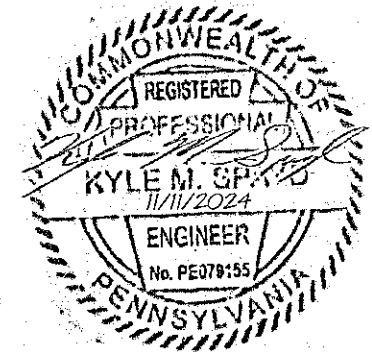
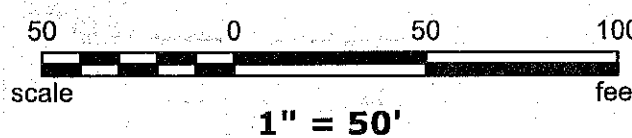


PROPOSED ROAD 1.1B

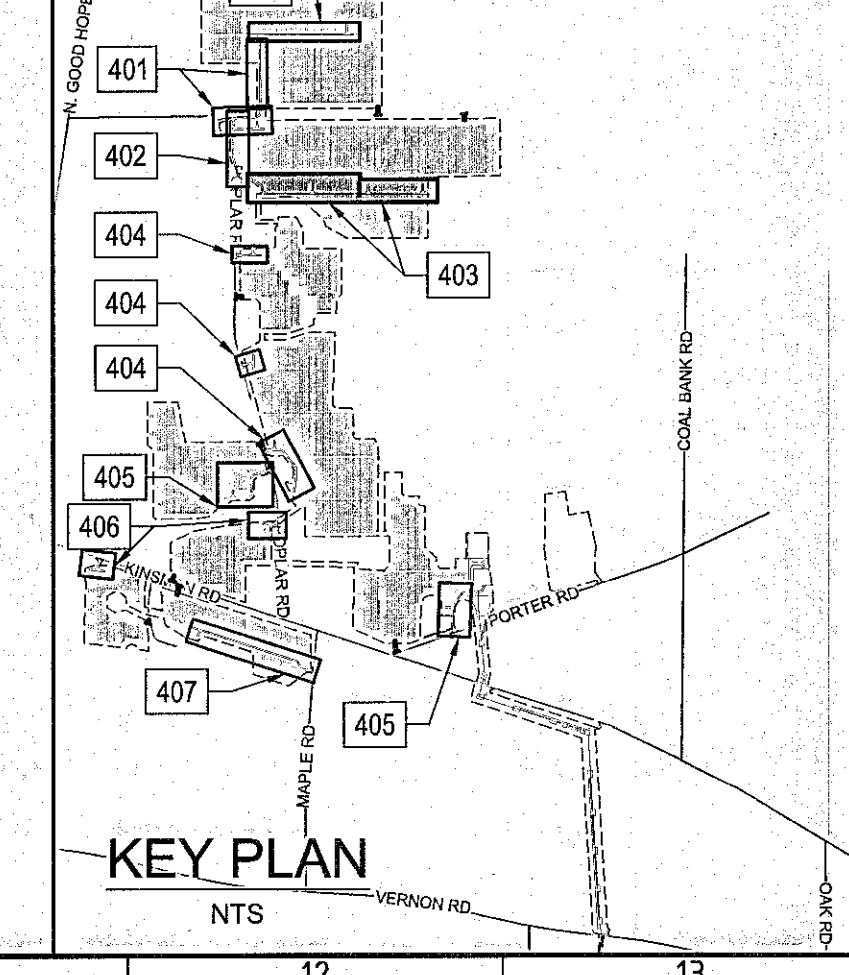
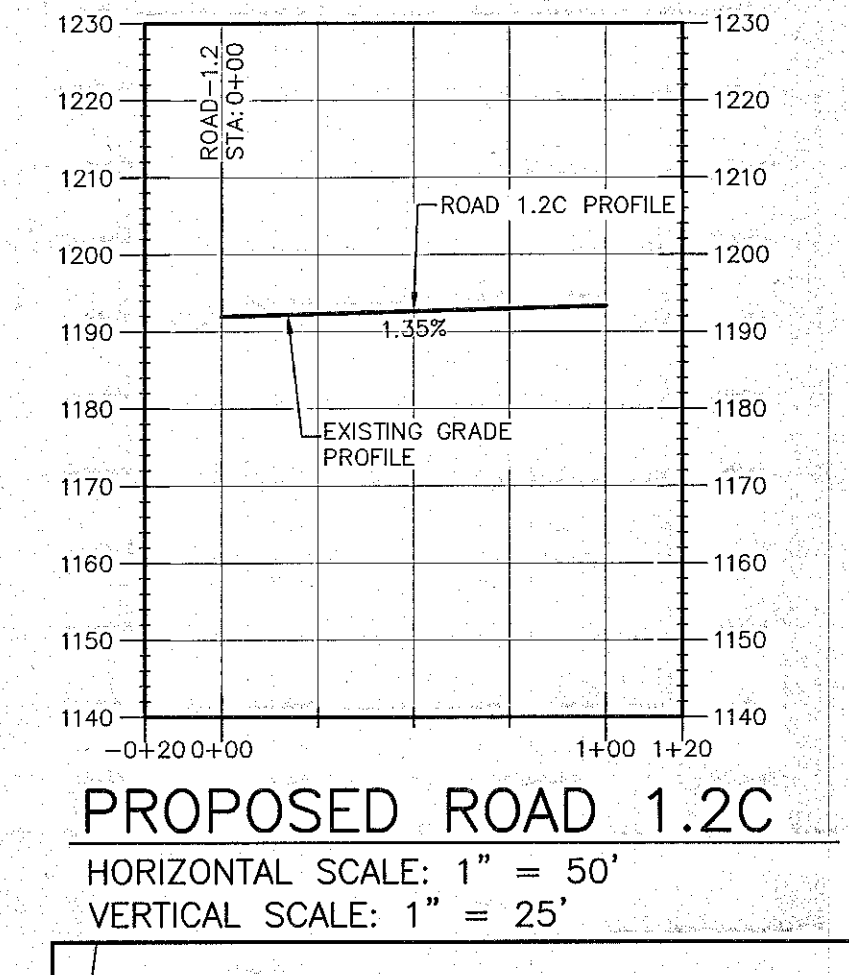
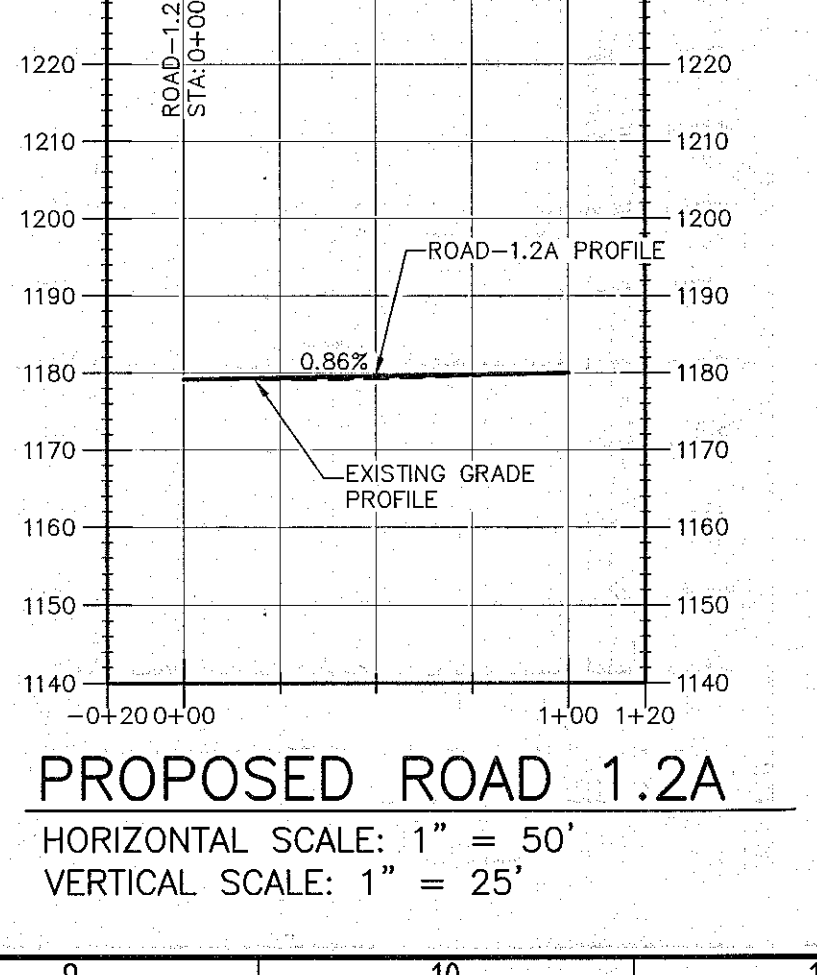
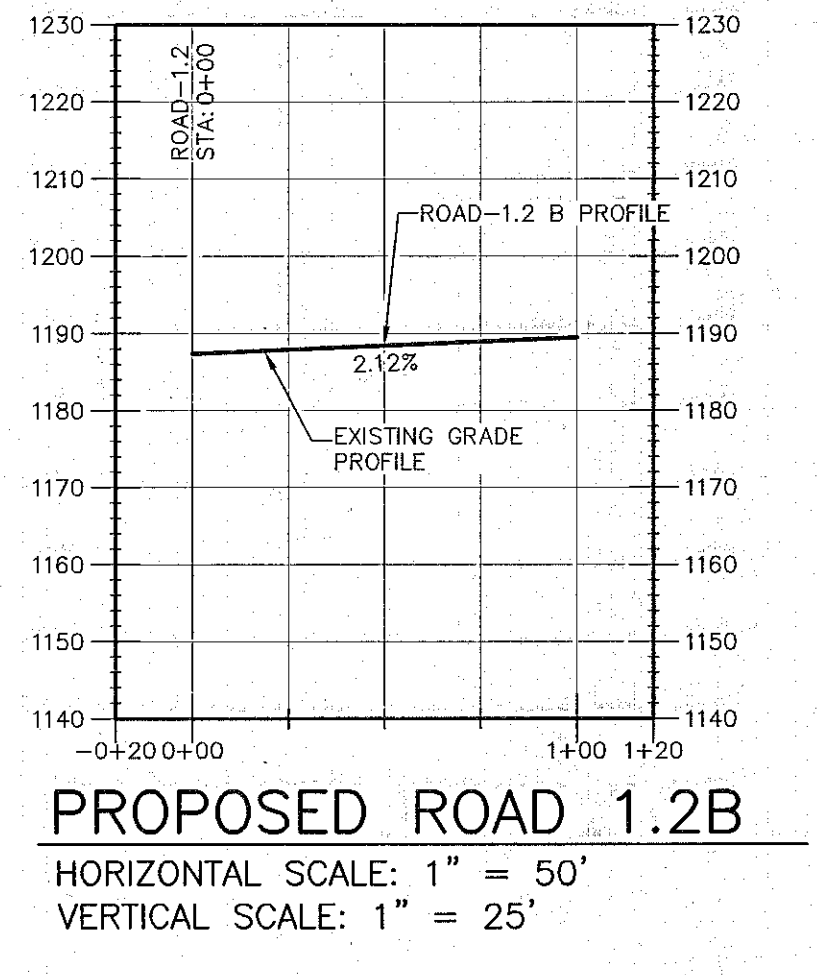
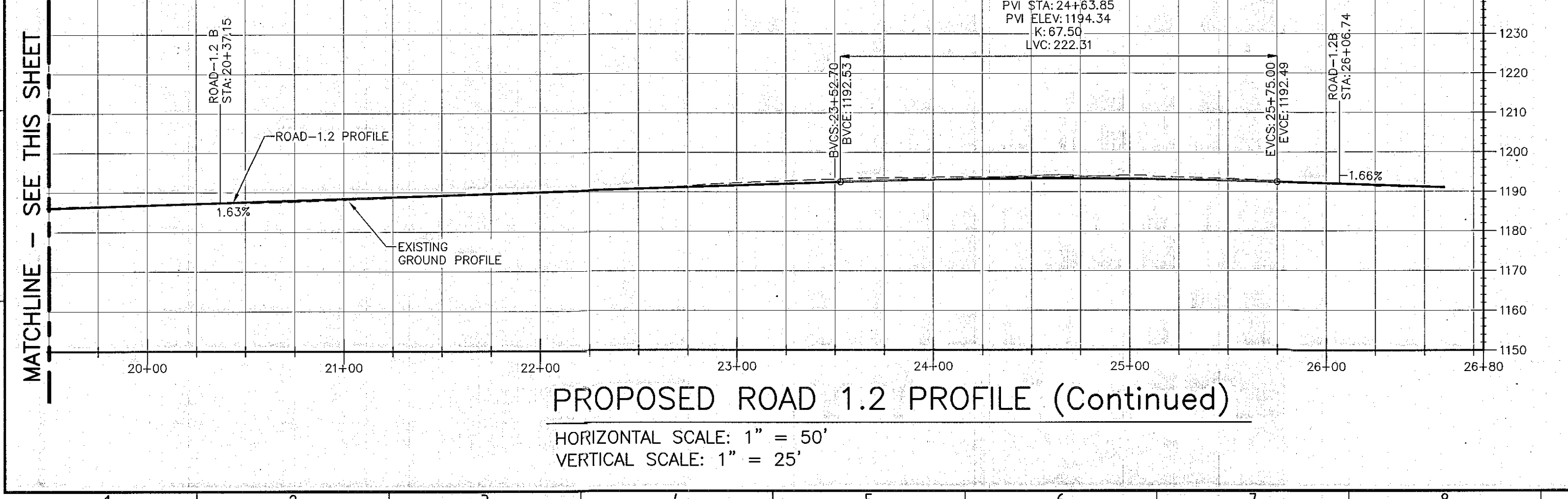
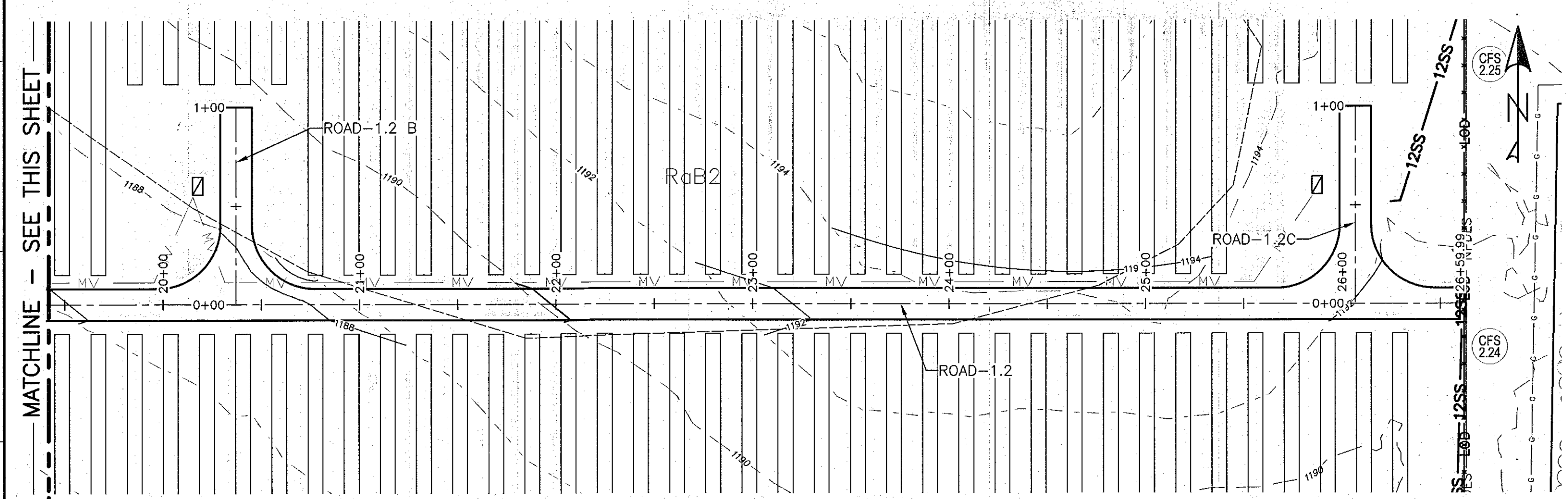
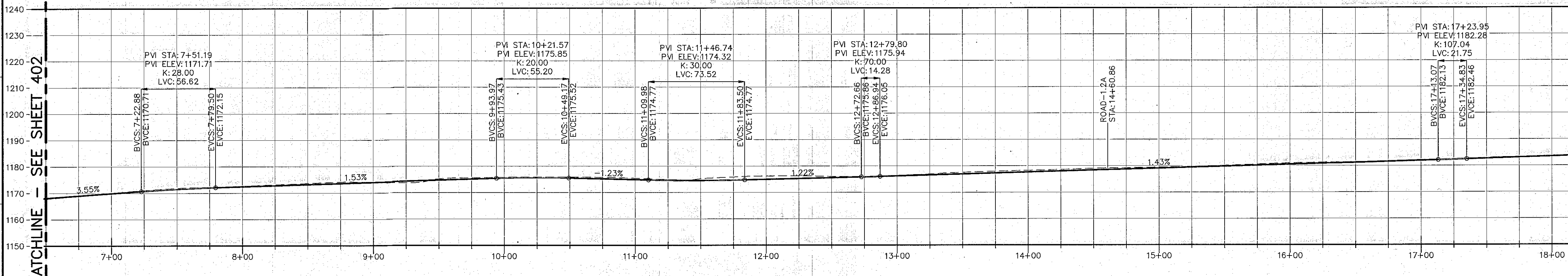
HORIZONTAL SCALE: 1" = 50'
VERTICAL SCALE: 1" = 25'

LEGEND:

- EXISTING TREELINE
- EXISTING FENCE
- EXISTING EASEMENT
- EXISTING CONTOURS
- EXISTING UNDERGROUND FIBER OPTIC
- EXISTING ROAD RIGHT OF WAY
- EXISTING CENTERLINE OF ROAD
- EXISTING OVERHEAD ELECTRIC
- EXISTING EDGE OF GRAVEL/ASPHALT/DIRT
- EXISTING GAS LINE
- ADJOINER PARCEL
- PARTICIPATING PARCEL
- EXISTING BUILDING/STRUCTURE
- EXISTING GUY WIRE ANCHOR
- EXISTING POLE
- EXISTING SIGN
- WETLAND DELINEATION
- STREAM DELINEATION
- ASSUMED 50' FLOODWAY
- NPDES
- FLOW PATH
- LIMIT OF DISTURBANCE
- PROPOSED ROADS AND PADS
- PROPOSED 2.0' CONTOUR
- PROPOSED FENCE
- 12" SILT SOCK
- 18" SILT SOCK
- 24" SILT SOCK
- 32" SILT SOCK
- PROPOSED ELEC FEEDER
- PROPOSED TREE LINE
- PROPOSED ORANGE CONSTRUCTION FENCE
- PROPOSED UNDERGROUND ELECTRIC
- PROPOSED OVERHEAD WIRE CENTER LINE
- PROPOSED BERM
- PROPOSED BAFFLE
- PROPOSED PHOTOVOLTAIC ARRAY
- PROPOSED PIPE AND ENDWALL
- PROPOSED GATE
- CONCRETE WASHOUT
- PROPOSED BASIN STRUCTURE
- TEST PIT
- SILT SOCK ID LABEL
- PROPOSED ELECTRIC POLE
- ROCK CONSTRUCTION ENTRANCE
- RIPRAP
- VEGETATION FILTER
- PROPOSED INVERTER
- EROSION CONTROL BLANKET
- CONSTRUCTION TIMBER MATTING
- TOPSOIL STOCKPILE
- PROPOSED SCREENING



5	11/4/2024	Updated per Mercer Co Regional Planning Commission email from Nov 1, 2024	A.N.	J.C.S.	K.M.S.
4	9/19/2024	Updated per Mercer Co Regional Planning Commission meeting from July 31, 2024	A.N.	J.C.S.	K.M.S.
3	1/17/2024	Updated per Mercer CCD Review Letter Dated Dec 19, 2023	A.N.	J.C.S.	K.M.S.
2	11/6/2023	Updated per Mercer CCD Verbal Comments on Nov 2, 2023	A.N.	J.C.S.	K.M.S.
1	10/11/2023	Updated per Mercer CCD Review Letter Dated Sept 12, 2023	A.N.	J.C.S.	K.M.S.
0	6/30/2023	Preliminary Land Development Plan - Issued for Permitting	A.N.	J.C.S.	K.M.S.
REV.	DATE	DESCRIPTION	PREPARED	CHECKED	APPROVED
CONTRACTOR'S LOG			PROJECT: MC SOLAR PROJECT WEST SALEM TOWNSHIP, PA 16125, USA		
FILE NAME:			CLASSIFICATION:		
UTILIZATION SCOPE:			FORMAT: ANSI D	SCALE: 1" = 50'	PLOT SCALE: 402
Engineering & Construction			TITLE: PLAN AND PROFILE-2		
VALIDATION			CODE		
VALIDATED BY	VERIFIED BY	COLLABORATORS	GROUP	FUNCTION	TYPE
			ISSUER	COUNTRY	TEC.
			PLANT	SYSTEM	PROGRESSIVE
			REVISION		



LEGEND:

- EXISTING TREELINE
- EXISTING FENCE
- EXISTING EASEMENT
- EXISTING CONTOURS
- EXISTING UNDERGROUND FIBER OPTIC
- EXISTING ROAD RIGHT OF WAY
- EXISTING CENTERLINE OF ROAD
- EXISTING OVERHEAD ELECTRIC
- EXISTING EDGE OF GRAVEL/ASPHALT/DIRT
- EXISTING GAS LINE
- ADJOINER PARCEL
- PARTICIPATING PARCEL
- EXISTING BUILDING/STRUCTURE
- EXISTING GUY WIRE ANCHOR
- EXISTING POLE
- EXISTING SIGN
- WETLAND DELINEATION
- STREAM DELINEATION
- ASSUMED 50' FLOODWAY
- SOILS TYPE SEPARATION/ABBREVIATION
- PROJECT AREA/NPDES BOUNDARY
- FLOW PATH
- LIMIT OF DISTURBANCE
- PROPOSED ROADS AND PADS
- PROPOSED 2.0' CONTOUR
- PROPOSED FENCE
- 12SS 12SS
- 18SS 18SS
- 24SS 24SS
- 32SS 32SS
- PROPOSED ELEC FEEDER
- PROPOSED TREELINE
- PROPOSED ORANGE CONSTRUCTION FENCE
- PROPOSED UNDERGROUND ELECTRIC
- PROPOSED OVERHEAD WIRE CENTER LINE
- PROPOSED BERM
- PROPOSED BAFFLE
- PROPOSED PHOTOVOLTAIC ARRAY
- PROPOSED PIPE AND ENDWALL
- PROPOSED GATE
- CONCRETE WASHOUT
- PROPOSED BASIN STRUCTURE
- TEST PIT
- SILT SOCK ID LABEL
- PROPOSED ELECTRIC POLE
- ROCK CONSTRUCTION ENTRANCE
- RIPRAP
- VEGETATION FILTER
- PROPOSED INVERTER
- EROSION CONTROL BLANKET
- CONSTRUCTION TIMBER MATTING
- TOPSOIL STOCKPILE
- PROPOSED SCREENING

11/4/2024 Updated per Mercer Co Regional Planning Commission email from Nov 1, 2024 A.N. J.C.S. K.M.S.

9/19/2024 Updated per Mercer Co Regional Planning Commission meeting from July 31, 2024 A.N. J.C.S. K.M.S.

1/17/2024 Updated per Mercer CCD Review Letter Dated Dec 19, 2023 A.N. J.C.S. K.M.S.

11/6/2023 Updated per Mercer CCD Verbal Comments on Nov 2, 2023 A.N. J.C.S. K.M.S.

10/11/2023 Updated per Mercer CCD Review Letter Dated Sept 12, 2023 A.N. J.C.S. K.M.S.

6/30/2023 Preliminary Land Development Plan - Issued for Permitting A.N. J.C.S. K.M.S.

REV. DATE DESCRIPTION PREPARED CHECKED APPROVED

CONTRACTOR/LOGO

FILE NAME:

CLASSIFICATION:

UTILIZATION SCOPE:

Engineering & Construction

VALIDATION

VALIDATED BY

VERIFIED BY

COLLABORATORS

MC SOLAR PROJECT

WEST SALEM TOWNSHIP, PA 16125, USA

FORMAT: ANSI D

SCALE: 1" = 50'

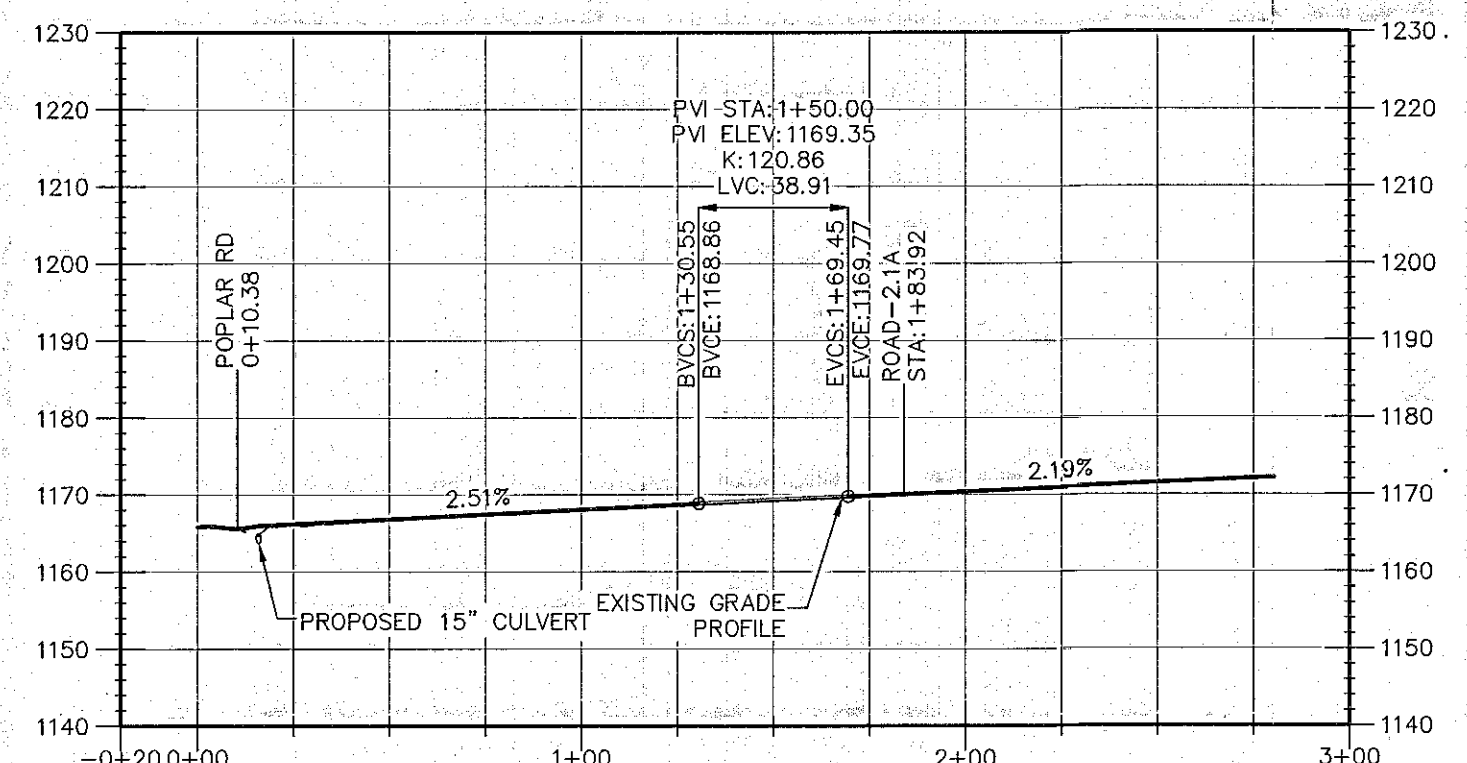
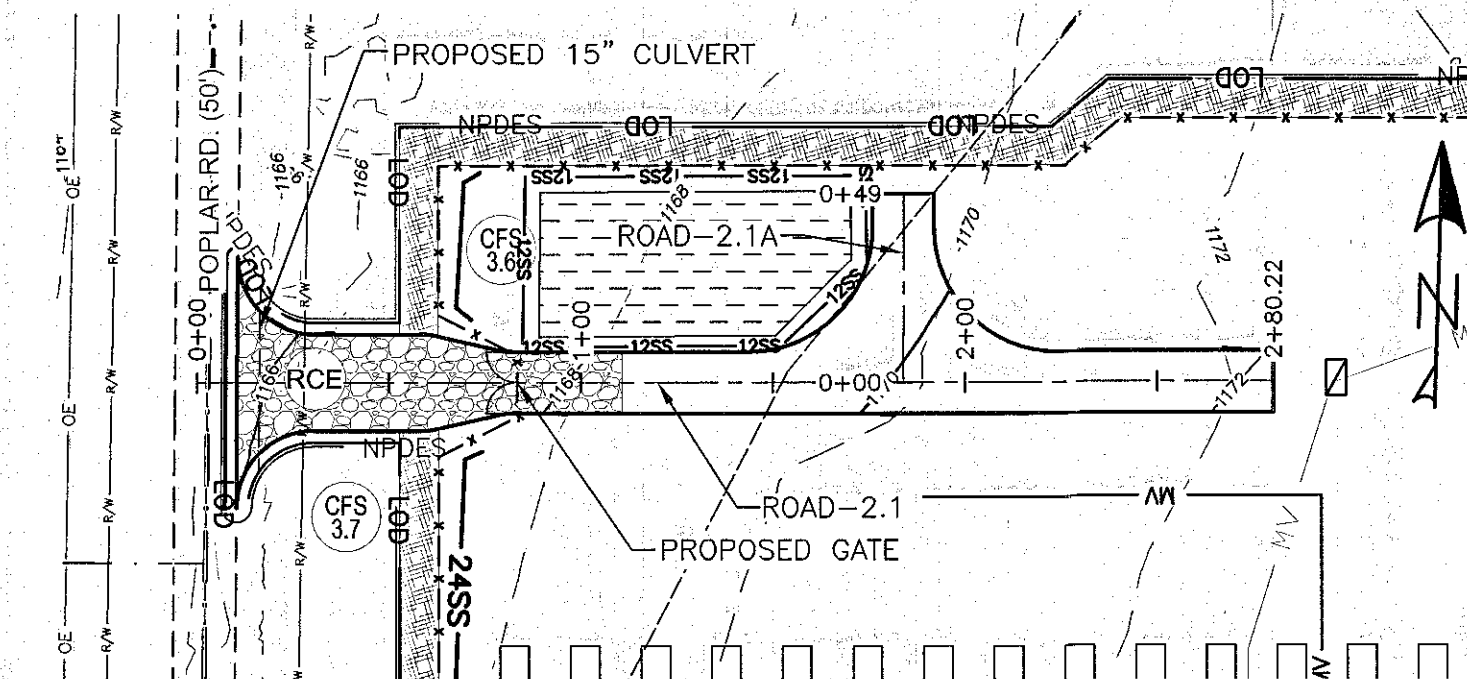
PLOT SCALE:

SHEET: 403

TITLE: PLAN AND PROFILE-3

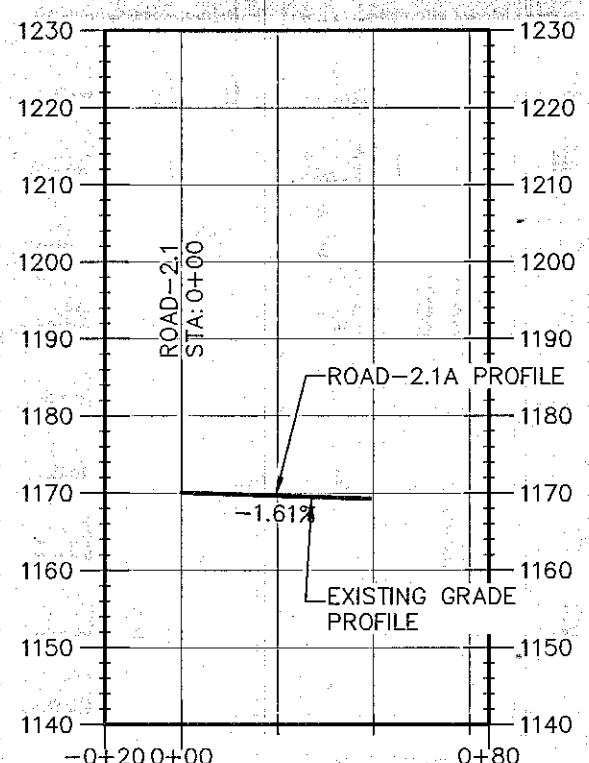
CODE

GROUP FUNCTION TYPE ISSUER COUNTRY TEC. PLANT SYSTEM PROGRESSIVE REVISION



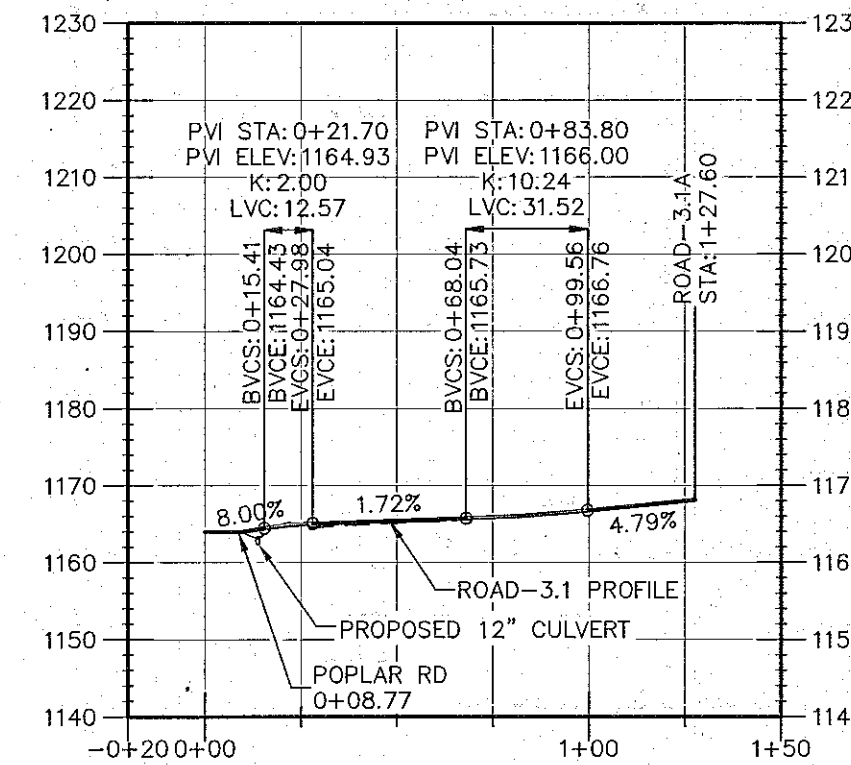
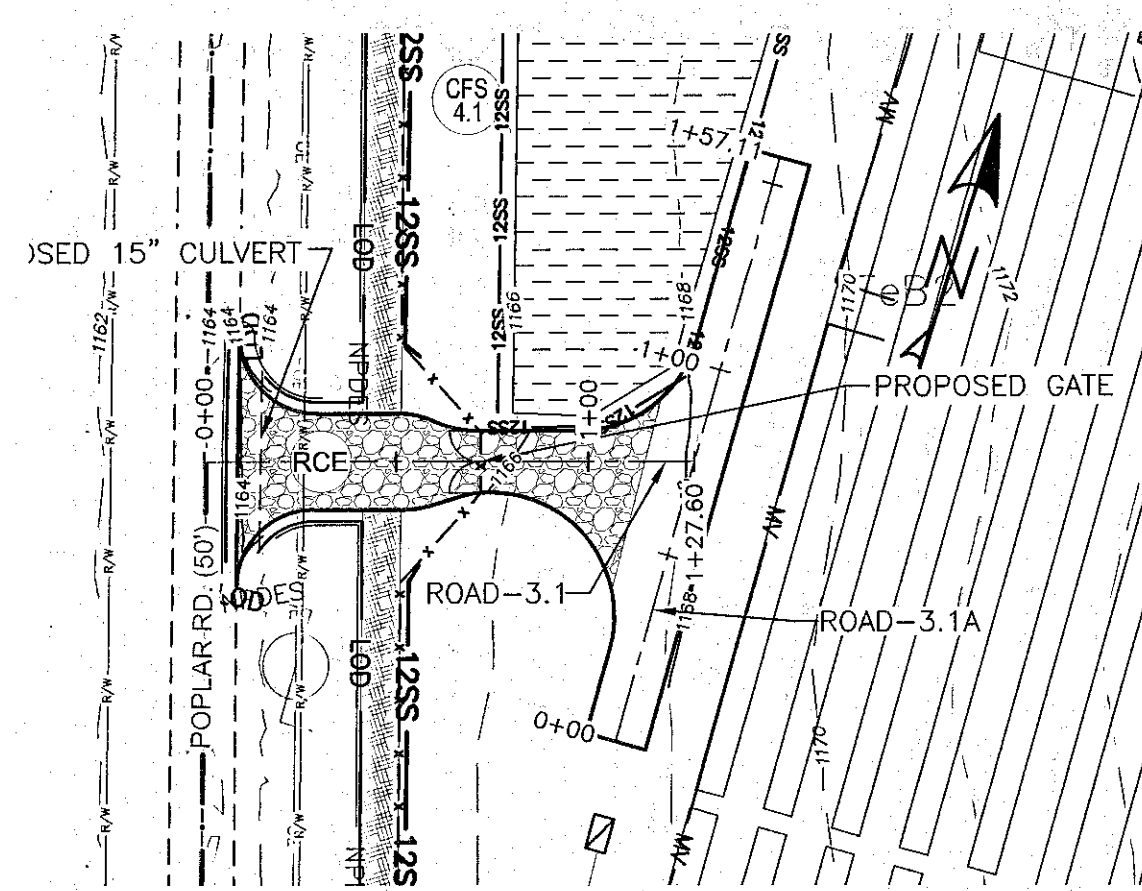
PROPOSED ROAD 2.1

HORIZONTAL SCALE: 1" = 50'
VERTICAL SCALE: 1" = 25'



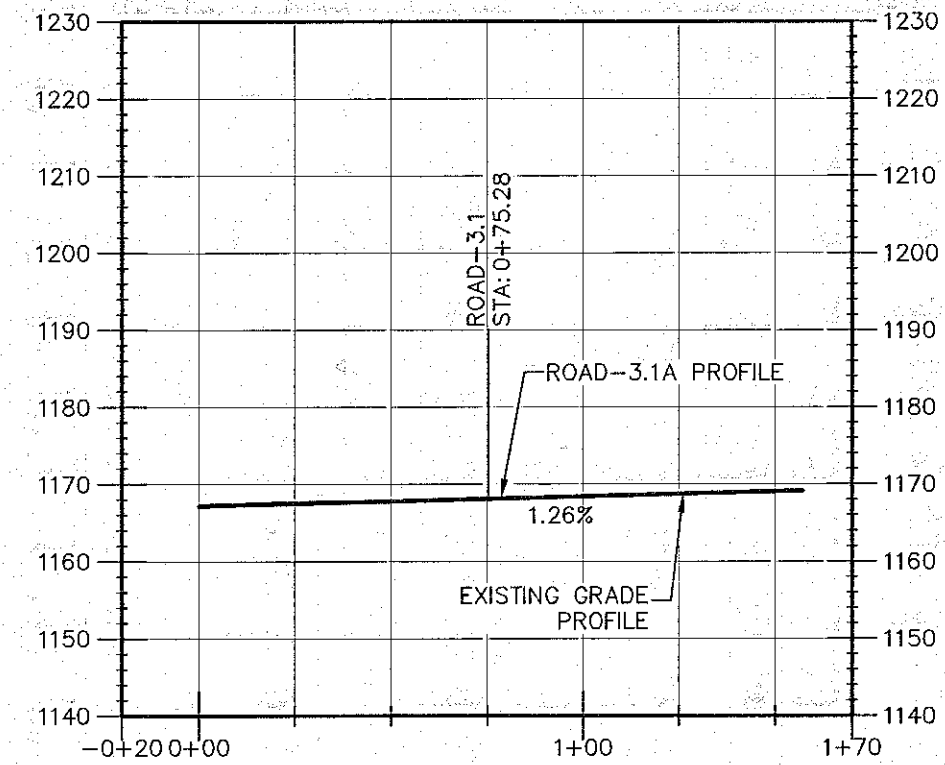
PROPOSED ROAD 2.1A

HORIZONTAL SCALE: 1" = 50'
VERTICAL SCALE: 1" = 25'



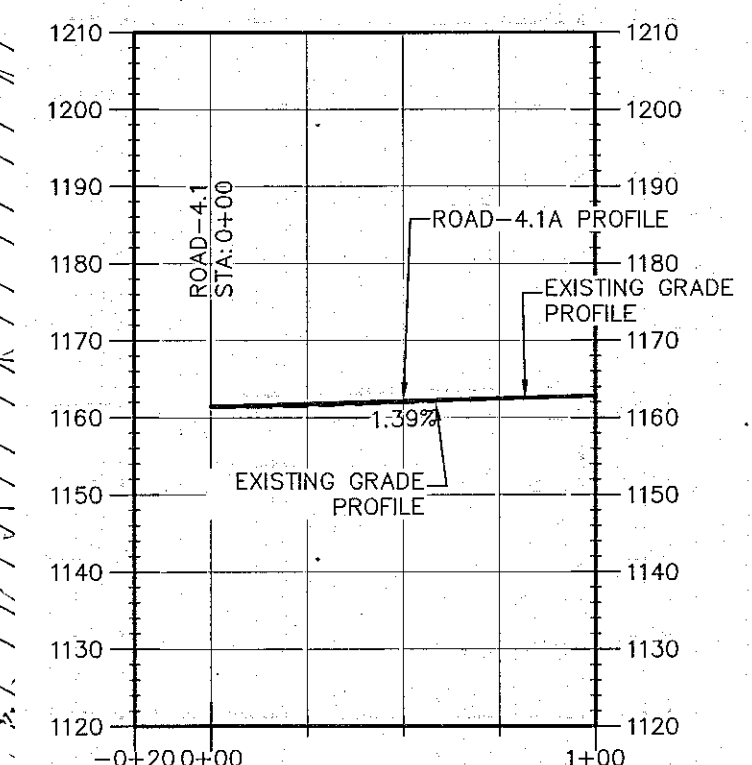
PROPOSED ROAD 3.1

HORIZONTAL SCALE: 1" = 50'
VERTICAL SCALE: 1" = 25'



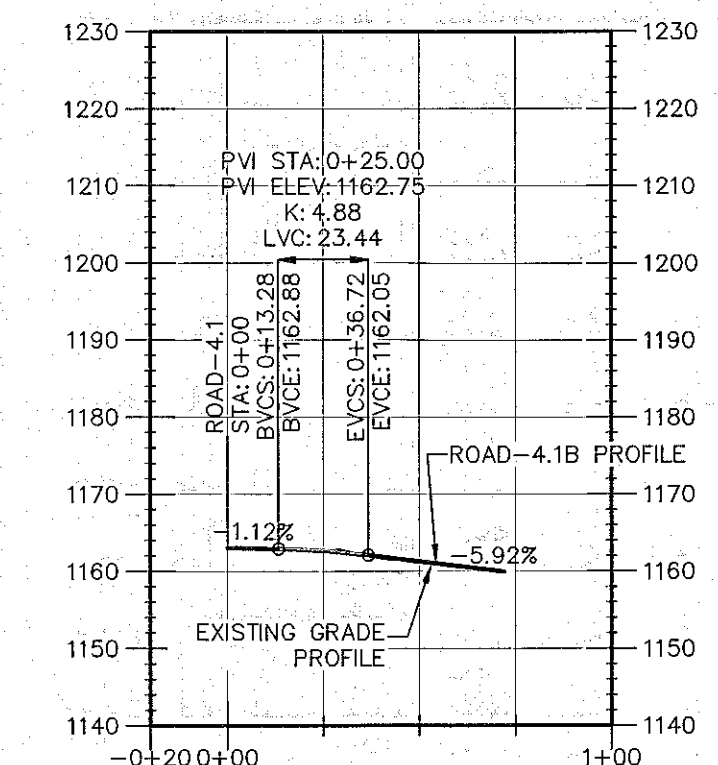
PROPOSED ROAD 3.1A

HORIZONTAL SCALE: 1" = 50'
VERTICAL SCALE: 1" = 25'



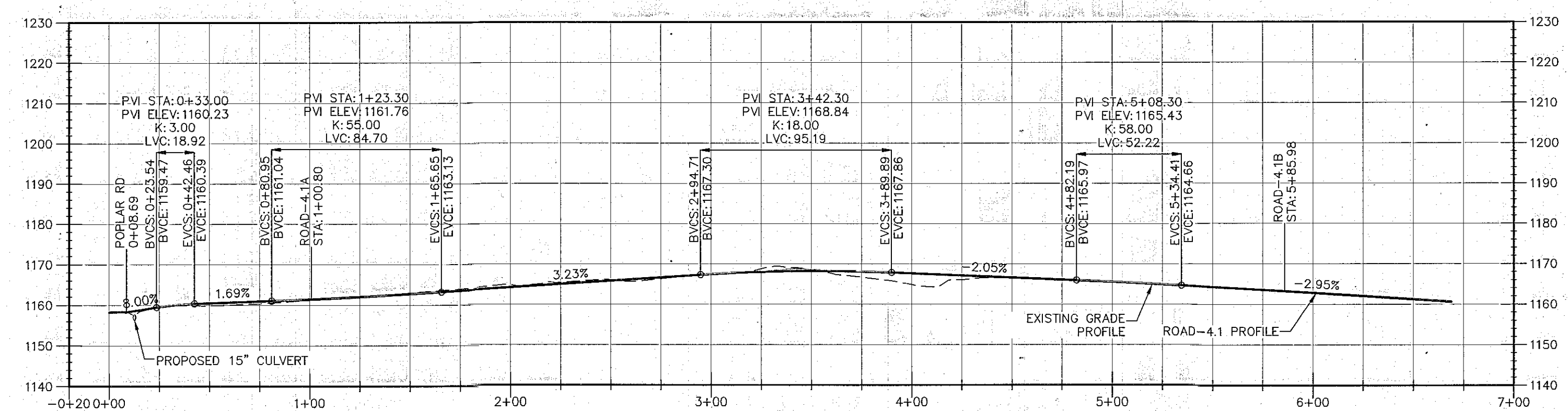
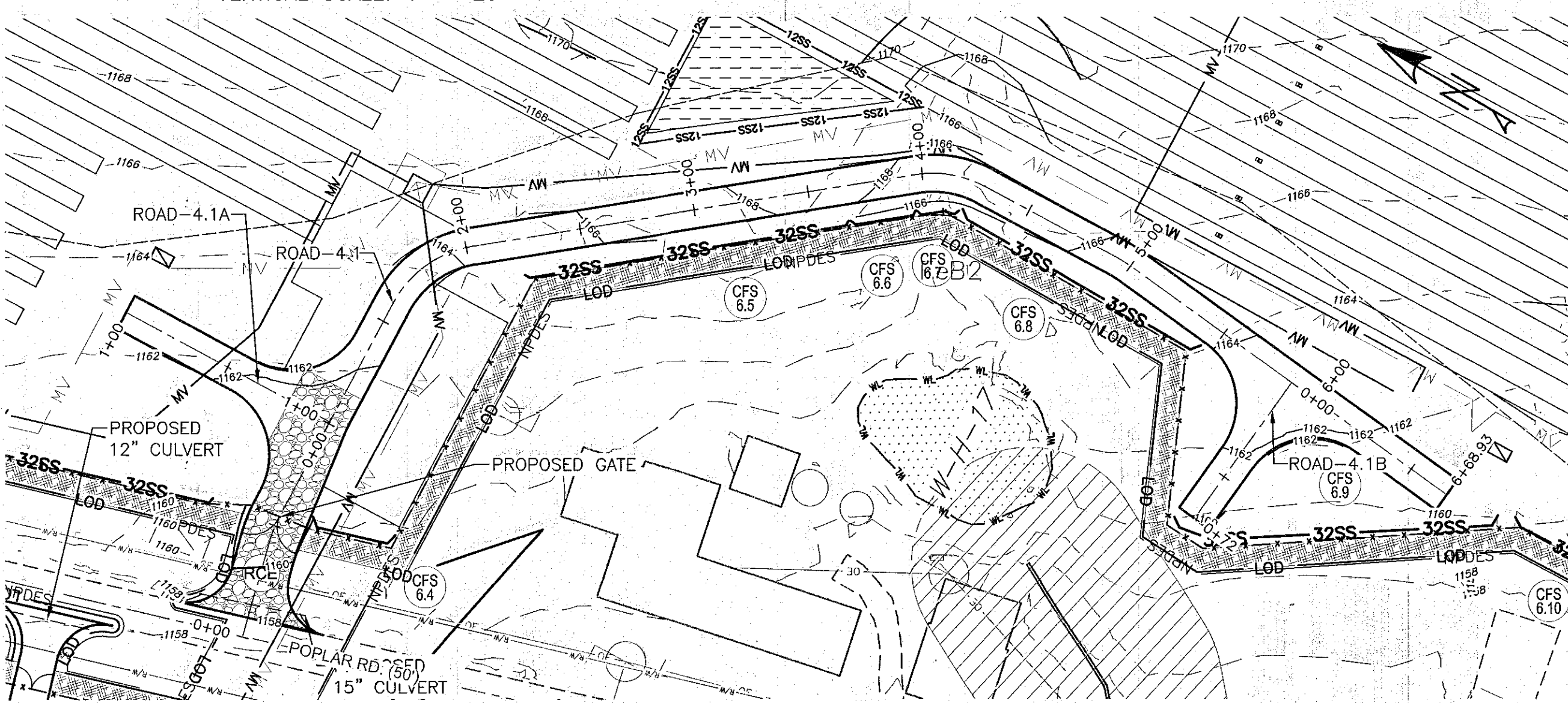
PROPOSED ROAD 4.1A

HORIZONTAL SCALE: 1" = 50'
VERTICAL SCALE: 1" = 25'



PROPOSED ROAD 4.1B

HORIZONTAL SCALE: 1" = 50'
VERTICAL SCALE: 1" = 25'

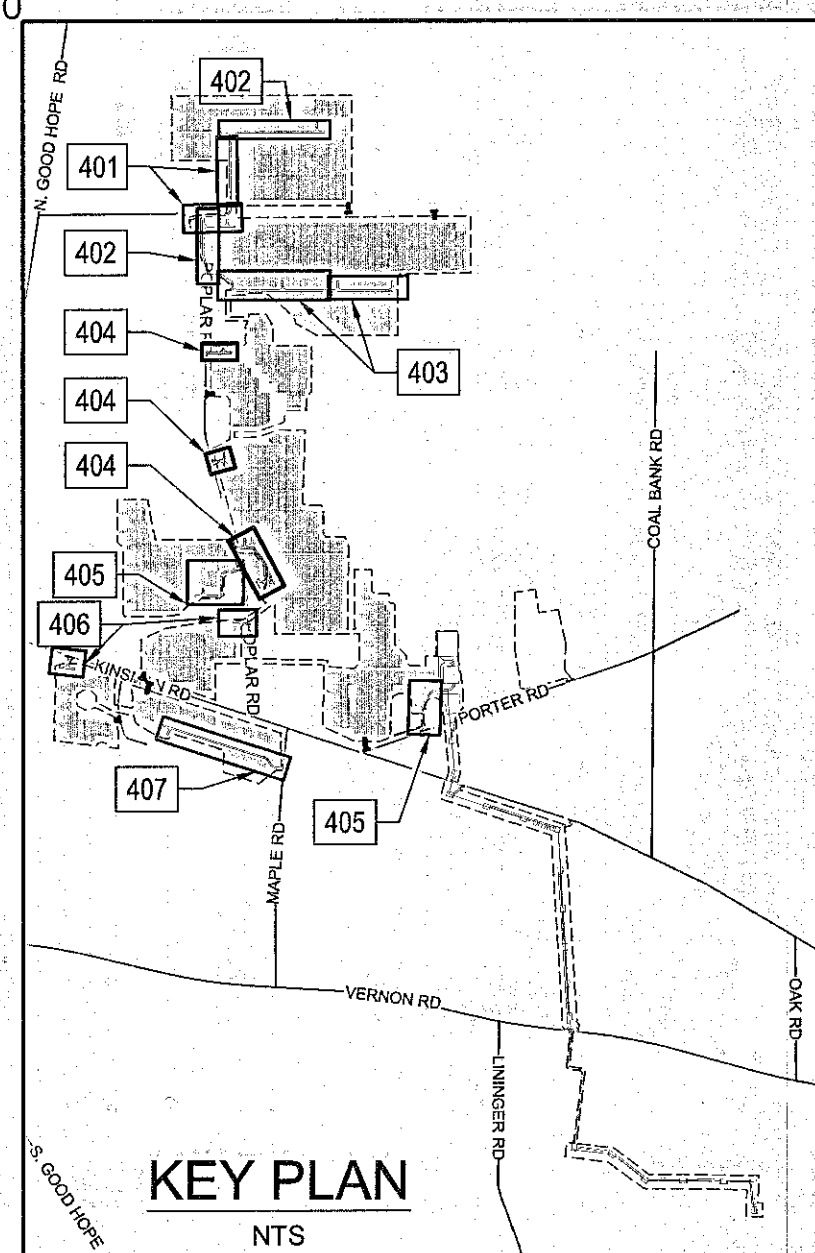
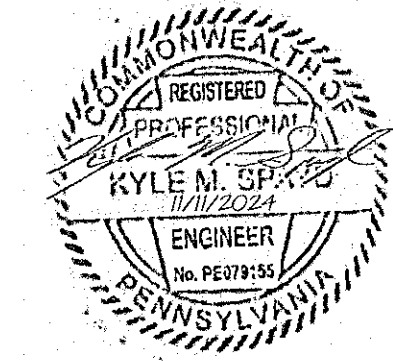
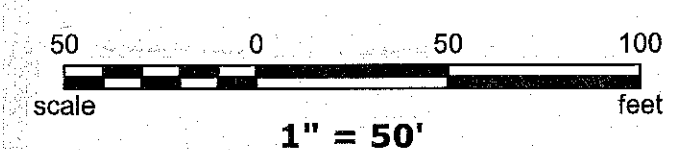


PROPOSED ROAD 4.1

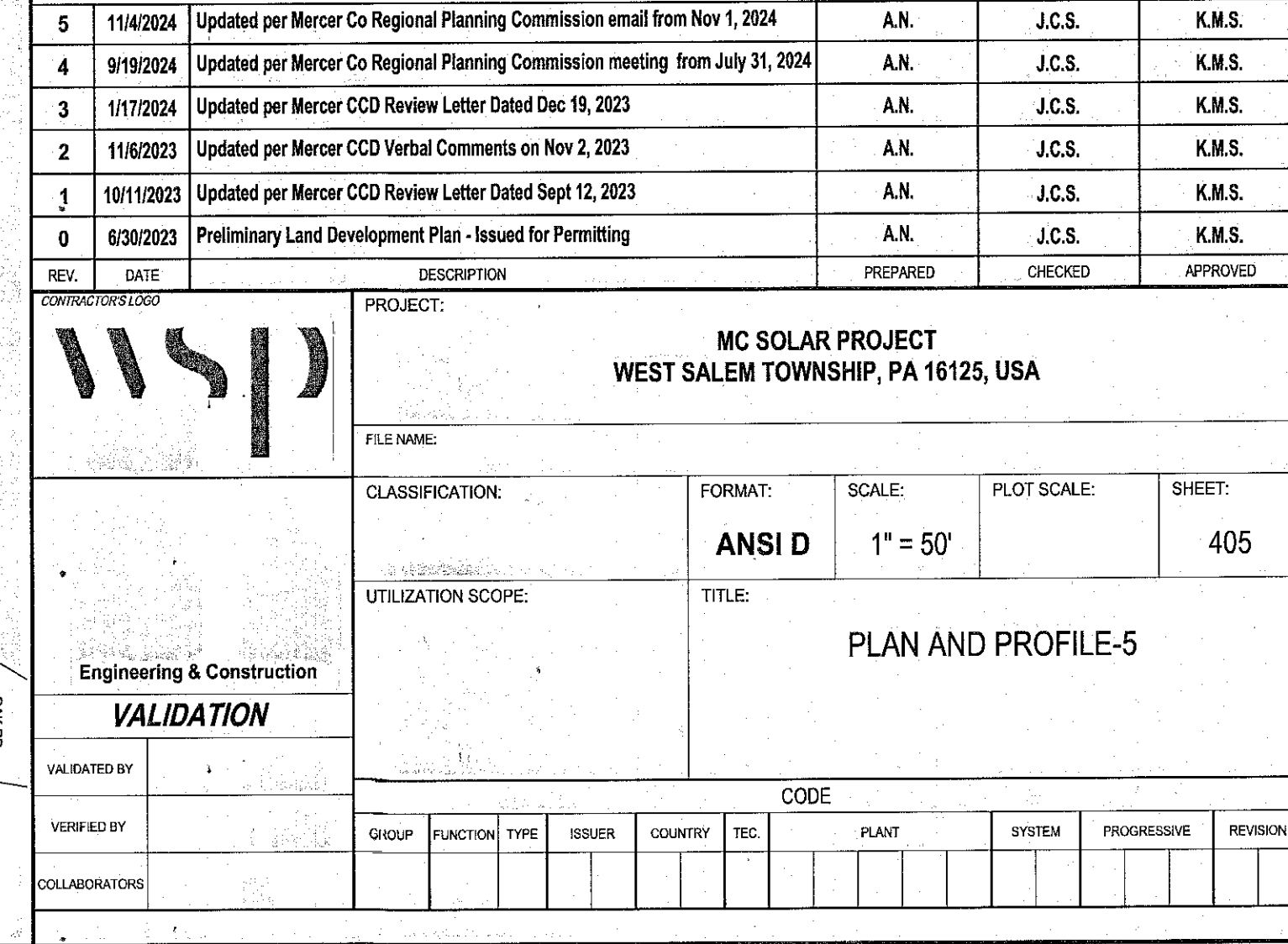
HORIZONTAL SCALE: 1" = 50'
VERTICAL SCALE: 1" = 25'

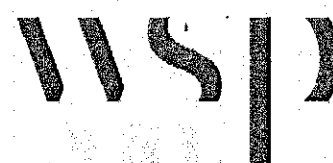
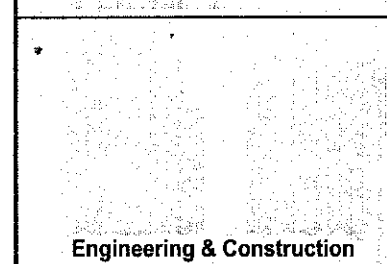
LEGEND:

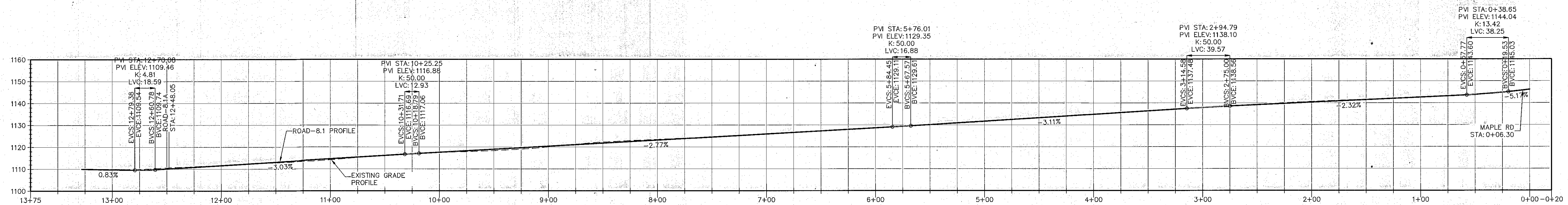
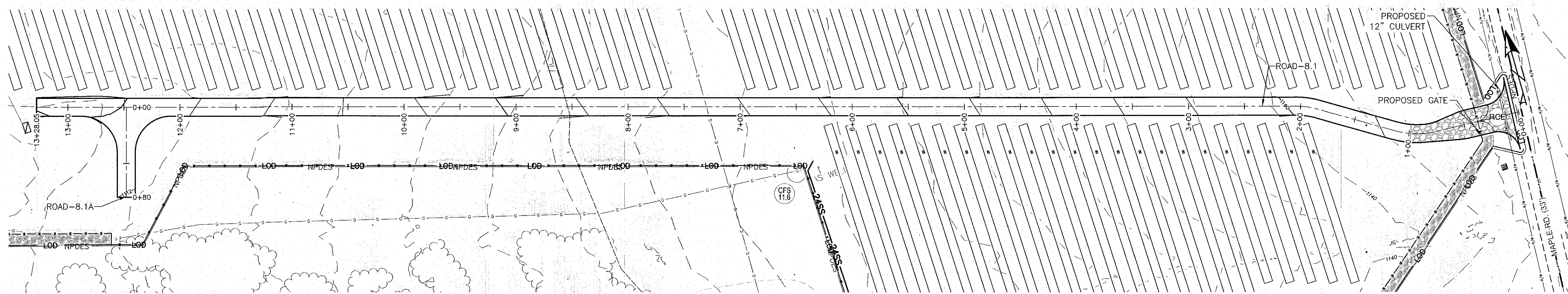
- EXISTING TREELINE
- EXISTING FENCE
- EXISTING EASEMENT
- EXISTING CONTOURS
- EXISTING UNDERGROUND FIBER OPTIC
- EXISTING ROAD RIGHT OF WAY
- EXISTING CENTERLINE OF ROAD
- EXISTING OVERHEAD ELECTRIC
- EXISTING EDGE OF GRAVEL/ASPHALT/DIRT
- EXISTING GAS LINE
- ADJOINER PARCEL
- EXISTING BUILDING/STRUCTURE
- EXISTING GUY WIRE ANCHOR
- EXISTING POLE
- EXISTING SIGN
- WETLAND DELINEATION
- STREAM DELINEATION
- ASSUMED 50' FLOODWAY
- SOILS TYPE SEPARATION/ABBREVIATION
- PROJECT AREA/NPDES BOUNDARY
- FLOW PATH
- LIMIT OF DISTURBANCE
- PROPOSED ROADS AND PADS
- PROPOSED 2.0' CONTOUR
- PROPOSED FENCE
- 12SS 12SS 12" SILT SOCK
- 18SS 18SS 18" SILT SOCK
- 24SS 24SS 24" SILT SOCK
- 32SS 32SS 32" SILT SOCK
- MV PROPOSED ELEC FEEDER
- PROPOSED TREELINE
- PROPOSED ORANGE CONSTRUCTION FENCE
- PROPOSED UNDERGROUND ELECTRIC
- PROPOSED OVERHEAD WIRE CENTER LINE
- PROPOSED BERM
- PROPOSED BAFFLE
- PROPOSED PHOTOVOLTAIC ARRAY
- PROPOSED PIPE AND ENDWALL
- PROPOSED GATE
- CONCRETE WASHOUT
- PROPOSED BASIN STRUCTURE
- TEST PIT
- SILT SOCK ID LABEL
- PROPOSED ELECTRIC POLE
- ROCK CONSTRUCTION ENTRANCE
- RIPRAP
- VEGETATION FILTER
- PROPOSED INVERTER
- EROSION CONTROL BLANKET
- CONSTRUCTION TIMBER MATTING
- TOPSOIL STOCKPILE
- PROPOSED SCREENING



5	11/4/2024	Updated per Mercer Co Regional Planning Commission email from Nov 1, 2024	A.N.	J.C.S.	K.M.S.
4	9/19/2024	Updated per Mercer Co Regional Planning Commission meeting from July 31, 2024	A.N.	J.C.S.	K.M.S.
3	1/17/2024	Updated per Mercer CCD Review Letter Dated Dec 19, 2023	A.N.	J.C.S.	K.M.S.
2	11/6/2023	Updated per Mercer CCD Verbal Comments on Nov 2, 2023	A.N.	J.C.S.	K.M.S.
1	10/11/2023	Updated per Mercer CCD Review Letter Dated Sept 12, 2023	A.N.	J.C.S.	K.M.S.
0	6/30/2023	Preliminary Land Development Plan - Issued for Permitting	A.N.	J.C.S.	K.M.S.
REV.	DATE	DESCRIPTION	PREPARED	CHECKED	APPROVED
CONTRACTOR'S LOGO			PROJECT:		
wsp			MC SOLAR PROJECT WEST SALEM TOWNSHIP, PA 16125, USA		
FILE NAME:			CLASSIFICATION:		
			FORMAT: ANSI D		
			SCALE: 1" = 50'		
			PLOT SCALE:		
			SHEET: 404		
UTILIZATION SCOPE:			TITLE:		
			PLAN AND PROFILE-4		
Engineering & Construction			CODE		
VALIDATION			GROUP FUNCTION TYPE ISSUER COUNTRY TEC:		
VALIDATED BY			PLANT SYSTEM PROGRESSIVE REVISION		
VERIFIED BY					
COLLABORATORS					



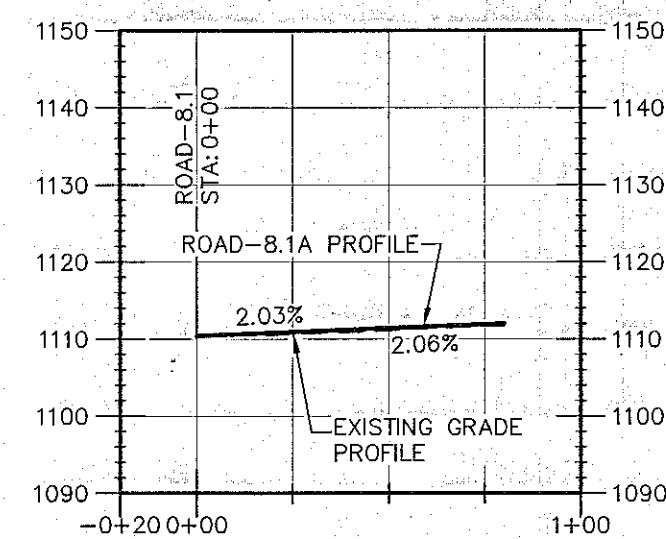
CONTRACTOR'S LOGO		PROJECT:																													
		MC SOLAR PROJECT WEST SALEM TOWNSHIP, PA 16125, USA																													
		FILE NAME:																													
		CLASSIFICATION:			FORMAT:		SCALE:		PLOT SCALE:		SHEET:																				
					ANSI D		1" = 50'				406																				
Engineering & Construction VALIDATION		UTILIZATION SCOPE:			TITLE: PLAN AND PROFILE-6																										
VALIDATED BY		CODE																													
VERIFIED BY		<table><tr><th>GROUP</th><th>FUNCTION</th><th>TYPE</th><th>ISSUER</th><th>COUNTRY</th><th>TEC.</th><th>PLANT</th><th>SYSTEM</th><th>PROGRESSIVE</th><th>REVISION</th></tr><tr><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr></table>										GROUP	FUNCTION	TYPE	ISSUER	COUNTRY	TEC.	PLANT	SYSTEM	PROGRESSIVE	REVISION										
GROUP	FUNCTION	TYPE	ISSUER	COUNTRY	TEC.	PLANT	SYSTEM	PROGRESSIVE	REVISION																						
COLLABORATORS																															



PROPOSED ROAD 8.1

HORIZONTAL SCALE: 1" = 50'

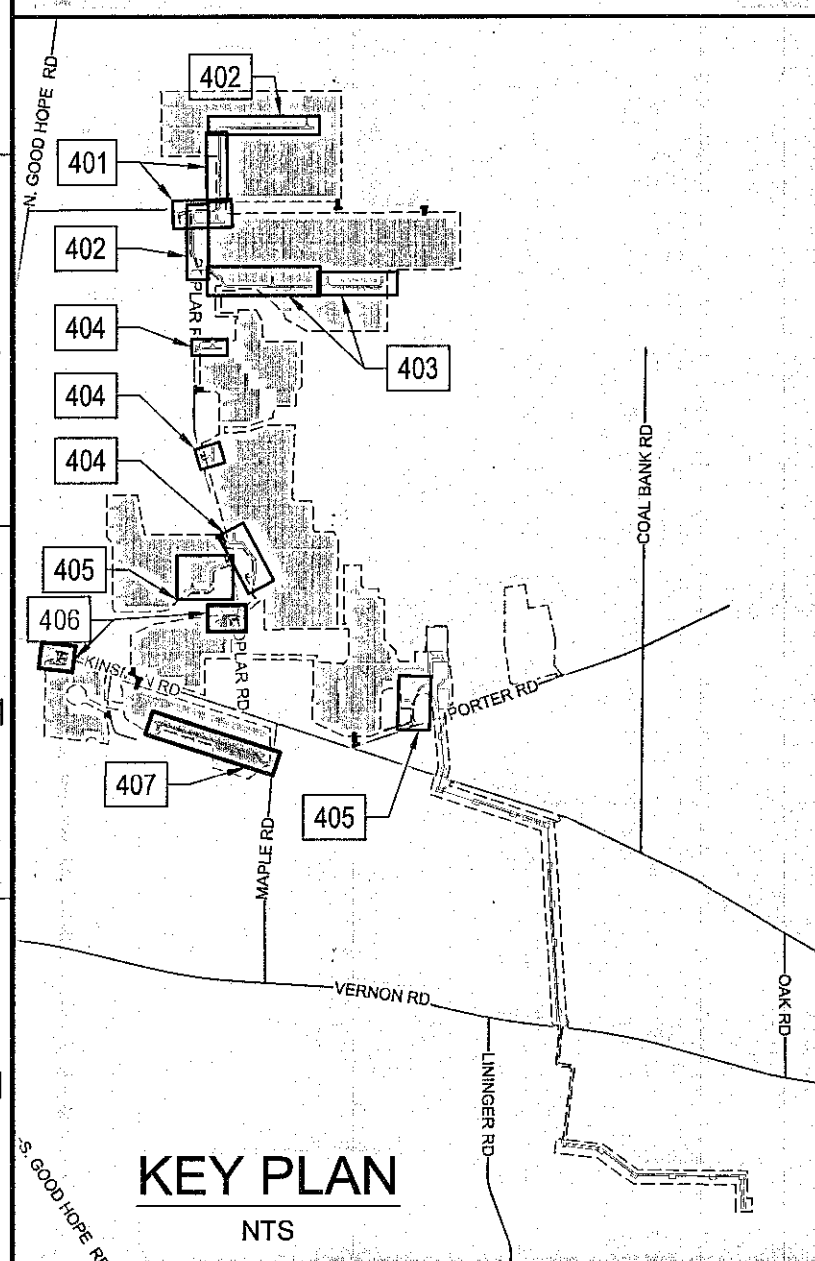
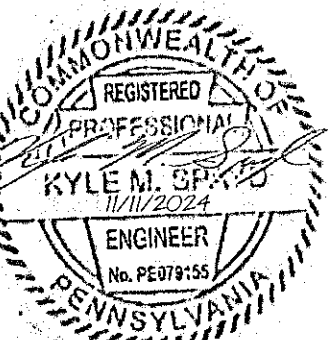
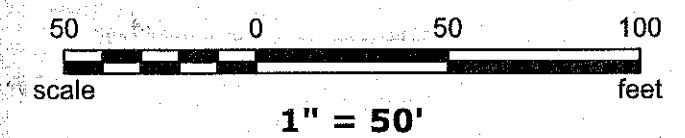
VERTICAL SCALE: 1" = 25'



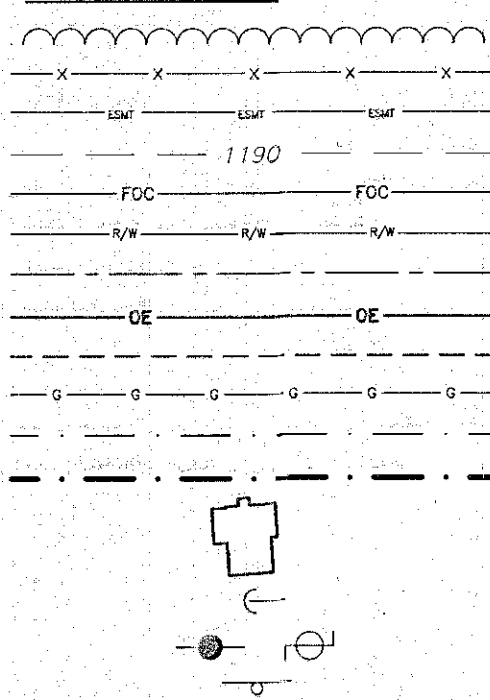
PROPOSED ROAD 8.1A

HORIZONTAL SCALE: 1" = 50'

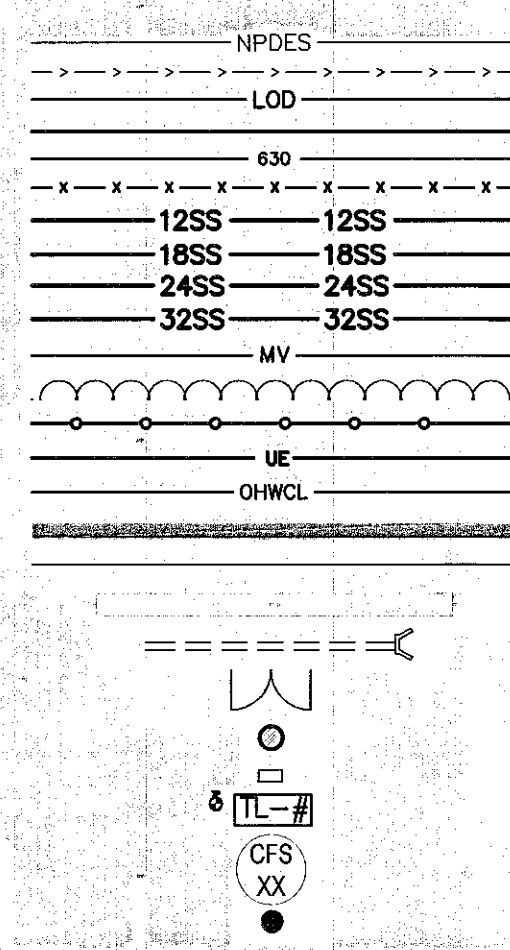
VERTICAL SCALE: 1" = 25'



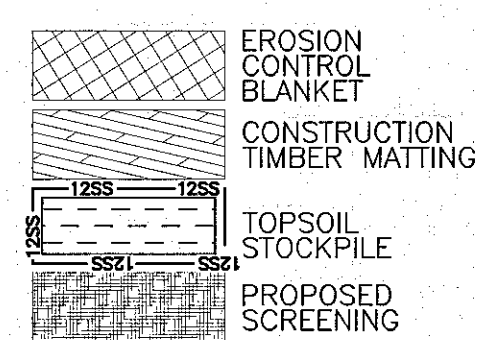
LEGEND:







EXISTING TREELINE
EXISTING FENCE
EXISTING EASEMENT
EXISTING CONTOURS
EXISTING UNDERGROUND FIBER OPTIC
EXISTING ROAD RIGHT OF WAY
EXISTING CENTERLINE OF ROAD
EXISTING OVERHEAD ELECTRIC
EXISTING EDGE OF GRAVEL/ASPHALT/DIRT
EXISTING GAS LINE
ADJOINER PARCEL
PARTICIPATING PARCEL
EXISTING BUILDING/STRUCTURE
EXISTING GUY WIRE ANCHOR
EXISTING POLE
EXISTING SIGN




PROJECT AREA/NPDES BOUNDARY
FLOW PATH
LIMIT OF DISTURBANCE
PROPOSED ROADS AND PAD'S
PROPOSED 2.0' CONTOUR
PROPOSED FENCE
12" SILT SOCK
18" SILT SOCK
24" SILT SOCK
32" SILT SOCK
PROPOSED ELEC FEEDER
PROPOSED TREELINE
PROPOSED ORANGE CONSTRUCTION FENCE
PROPOSED UNDERGROUND ELECTRIC
PROPOSED OVERHEAD WIRE CENTER LINE
PROPOSED BERM
PROPOSED BAFFLE
PROPOSED PHOTOVOLTAIC ARRAY
PROPOSED PIPE AND ENDWALL
PROPOSED GATE
CONCRETE WASHOUT
PROPOSED BASIN STRUCTURE
TEST PIT
SILT SOCK ID LABEL
PROPOSED ELECTRIC POLE



 ROCK CONSTRUCTION ENTRANCE
 RIPRAP
 VEGETATION FILTER
 PROPOSED INVERTER

5	11/14/2024	Updated per Mercer Co Regional Planning Commission email from Nov 1, 2024	A.N.	J.C.S.	K.M.S.
4	9/19/2024	Updated per Mercer Co Regional Planning Commission meeting from July 31, 2024	A.N.	J.C.S.	K.M.S.
3	1/17/2024	Updated per Mercer CCD Review Letter Dated Dec 19, 2023	A.N.	J.C.S.	K.M.S.
2	11/6/2023	Updated per Mercer CCD Verbal Comments on Nov 2, 2023	A.N.	J.C.S.	K.M.S.
1	10/11/2023	Updated per Mercer CCD Review Letter Dated Sept 12, 2023	A.N.	J.C.S.	K.M.S.
6/30/2023	Preliminary Land Development Plan - Issued for Permitting		A.N.	J.C.S.	K.M.S.
REV.	DATE	DESCRIPTION	PREPARED	CHECKED	APPROVED

CONTRACTOR'S LOGO



PROJECT:

MC SOLAR PROJECT
WEST SALEM TOWNSHIP, PA 16125, USA

FILE NAME:

CLASSIFICATION:

UTILIZATION SCOPE:

FORMAT:

TITLE:

SCALE:

PLAN AND PROFILE-7

PLOT SCALE:

SHEET:

ANSI D

1" = 50'

407

Engineering & Construction

VALIDATION

VALIDATED BY

VERIFIED BY

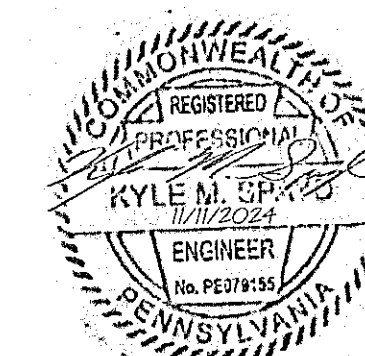
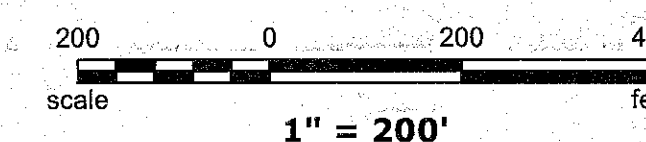
CODE

GROUP	FUNCTION	TYPE	ISSUER	COUNTRY	TEC.	PLANT	SYSTEM	PROGRESSIVE	REVISION

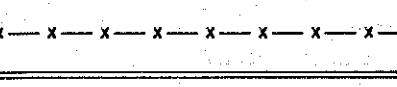
COLLABORATORS




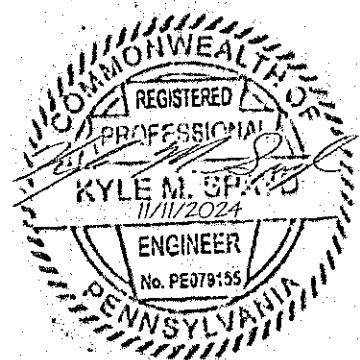
MATCHLINE - SEE SHEET 410




LEGEND:

- 
 PARTICIPATING PARCEL
 PROPOSED FENCE
 PROPOSED GRAVEL ACCESS ROADS
 PROPOSED EMERGENCY ACCESS ROADS
 WETLAND
 DELINEATION
 STREAM DELINEATION
 PROPOSED PV ARRAYS ACCESS GATE
 POTENTIAL EMERGENCY ACCESS GATE
 PROPOSED PV ARRAYS

CONTRACTORS LOGO	PROJECT: MC SOLAR PROJECT WEST SALEM TOWNSHIP, PA 16125, USA				
	FILE NAME:				
	CLASSIFICATION:	FORMAT: ANSI D	SCALE: 1" = 200'	PLOT SCALE:	SHEET: 409
	UTILIZATION SCOPE:	TITLE: EMERGENCY SERVICES ACCESS PLAN - 2			
* Engineering & Construction					
VALIDATION					
VALIDATED BY:					
VERIFIED BY:					
COLLABORATORS					



- LEGEND:**
- PARTICIPATING PARCEL
 - - - - - PROPOSED FENCE
 - - - - - PROPOSED GRAVEL ACCESS ROADS
 - - - - - PROPOSED EMERGENCY ACCESS ROADS
 - WETLAND DELINEATION
 - STREAM DELINEATION
 - PROPOSED PV ARRAYS ACCESS GATE
 - POTENTIAL EMERGENCY ACCESS GATE
 - PROPOSED PV ARRAYS

 Engineering & Construction VALIDATION	PROJECT: MC SOLAR PROJECT WEST SALEM TOWNSHIP, PA 16125, USA									
	FILE NAME:									
	CLASSIFICATION:	FORMAT: ANSI D	SCALE: 1" = 200'	PLOT SCALE:	SHEET: 410					
	UTILIZATION SCOPE:									
TITLE: EMERGENCY SERVICES ACCESS PLAN - 3										
VALIDATED BY:	CODE									
VERIFIED BY:	GROUP	FUNCTION	TYPE	ISSUER	COUNTRY	TEC.	PLANT	SYSTEM	PROGRESSIVE	REVISION
COLLABORATORS										

