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GENERAL NOTES

1. THE CONTRACTOR SHALL REFER TO ADDITIONAL PLANS WITHIN THIS SET FOR OTHER PERTINENT INFORMATION. IT IS NOT THE ENGINEER'S INTENT THAT ANY SINGLE PLAN SHEET IN THIS SET OF DOCUMENTS FULLY DEPICTS ALL WORK ASSOCIATED WITH THE PROJECT.
2. THE CONTRACTOR SHALL BE RESPONSIBLE FOR EXAMINING THE AREAS AND CONDITIONS UNDER WHICH THE PROJECT IS TO BE CONSTRUCTED PRIOR TO THE SUBMISSION OF A BID. SUBMISSION OF A BID SHALL BE CONSTRUED TO MEAN THE CONTRACTOR HAS REVIEWED THE SITE AND IS FAMILIAR WITH CONDITIONS AND CONSTRAINTS OF THE SITE. IF DISCREPANCIES BETWEEN FIELD CONDITIONS AND DESIGN PLANS ARE DISCOVERED, CONTRACTOR SHALL NOTIFY OWNER AND ENGINEER IMMEDIATELY.
3. EXISTING CONDITIONS AS DEPICTED ON THESE PLANS ARE GENERAL AND ILLUSTRATIVE IN NATURE. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO EXAMINE THE SITE AND BE FAMILIAR WITH EXISTING CONDITIONS PRIOR TO BIDDING ON THIS PROJECT. IF CONDITIONS ENCOUNTERED DURING EXAMINATION ARE SIGNIFICANTLY DIFFERENT THAN THOSE SHOWN, THE CONTRACTOR SHALL NOTIFY THE ENGINEER IMMEDIATELY.
4. ANY DISCREPANCIES ON THE DRAWINGS SHALL BE IMMEDIATELY BROUGHT TO THE ATTENTION OF THE OWNER AND ENGINEER BEFORE COMMENCING WORK. NO FIELD CHANGES OR DEVIATIONS FROM DESIGN ARE TO BE MADE WITHOUT PRIOR WRITTEN APPROVAL OF THE OWNER AND NOTIFICATION TO THE ENGINEER.
5. THE CONTRACTOR AND SUBCONTRACTORS SHALL BE RESPONSIBLE FOR COMPLYING WITH APPLICABLE FEDERAL, STATE, AND LOCAL REQUIREMENTS, TOGETHER WITH EXERCISING PRECAUTIONS AT ALL TIMES FOR THE PROTECTION OF PERSONS (INCLUDING EMPLOYEES) AND PROPERTY. IT IS THE SOLE RESPONSIBILITY OF THE CONTRACTOR AND SUBCONTRACTORS TO INITIATE, MAINTAIN, AND SUPERVISE ALL SAFETY REQUIREMENTS, PRECAUTIONS, AND PROGRAMS IN CONNECTION WITH THE WORK.
6. THE CONTRACTOR SHALL INDEMNIFY AND HOLD HARMLESS THE OWNER AND OWNER'S REPRESENTATIVE FROM ALL CLAIMS OR DAMAGES ARISING FROM THE DEMOLITION AND CONSTRUCTION WORK, INCLUDING INJURY TO PERSONS AND DAMAGE TO PROPERTY OR EXISTING FACILITIES.
7. THE CONTRACTOR SHALL COMPLY WITH ALL LOCAL AND STATE CODES, OBTAIN ALL APPLICABLE PERMITS, AND BONDS, AND PAY ALL REQUIRED FEES PRIOR TO BEGINNING WORK.
8. ALL WORK AND MATERIALS SHALL COMPLY WITH SPECIFICATIONS PROVIDED; ALL LOCAL, COUNTY, STATE, AND FEDERAL REGULATIONS AND CODES; AND OSHA STANDARDS. IF A CONFLICT IS DETERMINED TO EXIST, THE CONTRACTOR SHALL PROMPTLY NOTIFY THE ENGINEER AND OWNER.
9. ALL WORK PERFORMED BY THE CONTRACTOR SHALL CONFORM TO THE LATEST REQUIREMENTS OF THE AMERICANS WITH DISABILITIES ACT.
10. THE CONTRACTOR SHALL DESIGNATE A TRAINED COMPETENT PERSON FOR ALL EXCAVATION WORK WHO SHALL BE ON SITE OR ON CALL 24 HOURS PER DAY 7 DAYS PER WEEK IN CASE OF EMERGENCY. THE CONTRACTOR SHALL PROVIDE CONTACT INFORMATION FOR THIS PERSON PRIOR TO COMMENCING WORK.
11. THE CONTRACTOR SHALL COMPLY WITH ALL APPLICABLE PENNDOT AND PROJECT SPECIFIC SPECIFICATIONS.
12. ALL WORK PERFORMED BY THE CONTRACTOR SHALL CONFORM WITH THE SITE SPECIFIC MATERIALS MANAGEMENT PLAN, COA, AND ENVIRONMENTAL COVENANT. IT IS THE RESPONSIBILITY OF THE OWNER OR CONTRACTOR TO RETAIN A QUALIFIED ENVIRONMENTAL PROFESSIONAL TO OBSERVE AND ACCESS COMPLIANCE WITH THE SITE SPECIFIC MATERIALS MANAGEMENT PLAN, COA, ENVIRONMENTAL COVENANT AND CONTRACT DOCUMENTS.
13. DAMAGE TO EXISTING PAVEMENT TO REMAIN RESULTING FROM THE CONTRACTOR'S OPERATIONS SHALL BE REPLACED WITH LIKE MATERIALS AT THE CONTRACTOR'S EXPENSE.
14. THE CONTRACTOR SHALL BE RESPONSIBLE FOR VERIFYING THAT THE PROPOSED IMPROVEMENTS SHOWN ON THE PLANS DO NOT CONFLICT WITH ANY KNOWN EXISTING SITE FEATURES OR OTHER PROPOSED IMPROVEMENTS. IF ANY CONFLICTS ARE DISCOVERED, THE CONTRACTOR SHALL NOTIFY THE OWNER PRIOR TO INSTALLATION OF ANY PORTION OF THE SITE WORK THAT WOULD BE AFFECTED. FAILURE TO NOTIFY THE OWNER OF AN IDENTIFIABLE CONFLICT PRIOR TO PROCEEDING WITH INSTALLATION RELIEVES THE OWNER OF ANY OBLIGATION TO PAY FOR A RELATED CHANGE ORDER OR ANY INCIDENTAL COSTS.
15. THE CONTRACTOR SHALL HAVE AVAILABLE AT THE JOB SITE AT ALL TIMES, ONE COPY OF THE CONSTRUCTION DOCUMENTS INCLUDING PLANS, SPECIFICATIONS, SPECIAL CONDITIONS, AND COPIES OF ALL REQUIRED PERMITS.
16. THE CONTRACTOR SHALL PROTECT ALL CORNER PINS, MONUMENTS, PROPERTY CORNERS, AND BENCHMARKS DURING CONSTRUCTION ACTIVITIES. IF DISTURBED, THE CONTRACTOR SHALL HAVE AFFECTED ITEMS RE-MARK BY A LICENSED SURVEYOR AT NO ADDITIONAL COST TO THE OWNER.
17. THE CONTRACTOR SHALL PROVIDE AND MAINTAIN TRAFFIC CONTROL MEASURES IN ACCORDANCE WITH STATE DEPARTMENT OF TRANSPORTATION AND AS REQUIRED BY LOCAL AGENCIES WHEN WORKING IN, AND, OR ALONG ROADWAYS. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO OBTAIN APPROVAL AND COORDINATE WITH LOCAL AND/OR STATE AGENCIES REGARDING THE NEED, EXTENT, AND LIMITATIONS ASSOCIATED WITH INSTALLING AND MAINTAINING TRAFFIC CONTROL MEASURES.
18. THE CONTRACTOR SHALL BE RESPONSIBLE FOR DOCUMENTING AND MAINTAINING AS-BUILT INFORMATION WHICH SHALL BE RECORDED AS CONSTRUCTION PROGRESSES OR AT THE COMPLETION OF APPROPRIATE INTERVALS AND SHALL BE RESPONSIBLE FOR PROVIDING AS-BUILT DRAWINGS TO THE OWNER FOR THE PURPOSE OF CERTIFICATION TO JURISDICTIONAL AGENCIES AS REQUIRED. ALL AS-BUILT DATA SHALL BE COLLECTED BY A STATE OF PENNSYLVANIA PROFESSIONAL LAND SURVEYOR WHOSE SERVICES ARE ENGAGED BY THE CONTRACTOR.
19. NO LANDSCAPING WILL OCCUR ON THE SITE DUE TO CLASSIFICATION AS A SUPERFUND SITE.
20. NO LIGHT POLES TO BE LOCATED WITHIN THE FIRSTENERGY EASEMENT.
21. NO CONSTRUCTION EQUIPMENT WILL BE STORED WITHIN FIRSTENERGY EASEMENT DURING OR AFTER CONSTRUCTION ACTIVITIES.
22. THERE WILL BE NO CHANGES TO THE GRADE ELEVATIONS OF THE RIGHT OF WAY UPON COMPLETED OF THE PROJECT.
23. NO SOIL PILES OR OTHER MATERIAL SHALL BE PLACED OR STORED UNDER THE TRANSMISSION-LINE CONDUCTORS AT ANY TIME.

NOTIFICATION REQUIREMENTS

1. A PRE-CONSTRUCTION MEETING WITH THE MERCER COUNTY CONSERVATION DISTRICT AND PADEP IS REQUIRED PRIOR TO COMMENCING CONSTRUCTION ACTIVITIES. A MINIMUM OF 7 DAYS' NOTICE SHALL BE PROVIDED TO THE CO/DEP PRIOR TO THE SCHEDULED PRE-CONSTRUCTION MEETING. IF THE CO/DEP IS UNABLE TO ATTEND THE SCHEDULED PRE-CONSTRUCTION MEETING, THEN THE PERMITTEE MUST STILL HOLD THE MEETING WITHOUT THE CO/DEP.
2. UPON THE INSTALLATION OF PERIMETER SEDIMENT CONTROL BEST MANAGEMENT PRACTICES (BMPs) AND AT LEAST THREE (3) DAYS PRIOR TO PROCEEDING WITH BULK EARTHWORK ACTIVITIES, THE PERMITTEE SHALL PROVIDE NOTIFICATION TO THE CO/DEP BY PHONE OR ELECTRONIC MAIL.
3. THE CONTRACTOR SHALL NOTIFY THE OWNER AND ENGINEER A MINIMUM OF THREE (3) DAYS IN ADVANCE OF INSTALLING PROPOSED STORMWATER CONTROL MEASURES (SCMs). INSTALLATION OF CRITICAL STAGES OF SCM CONSTRUCTION MUST BE OVERSEEN BY A LICENSED PROFESSIONAL. THE LICENSED PROFESSIONAL MUST COMPLETE DEP'S SCM CONSTRUCTION CERTIFICATION FORM. THE PERMITTEE MUST SUBMIT THE COMPLETED FORM TO THE CO/DEP WITHIN 30 DAYS OF COMPLETION OF THE SCM CONSTRUCTION.
4. THE PERMITTEE MUST NOTIFY THE CO/DEP OF ANY PLANNED CHANGE TO EARTH DISTURBANCE ACTIVITIES, BMPs, SCMs, OR ANY OTHER CHANGE THAT MAY AFFECT IPDES PERMIT COVERAGE PRIOR TO IMPLEMENTING THE CHANGE. THE CO/DEP WILL NOTIFY THE PERMITTEE WHETHER SUBMISSION OF AN NOI TO AMEND PERMIT COVERAGE IS REQUIRED. THE PERMITTEE MAY NOT PROCEED TO IMPLEMENT THE PROPOSED CHANGE UNTIL THE PERMITTEE RECEIVES WRITTEN APPROVAL FOR THE AMENDMENT FROM THE CO/DEP.
5. THE PERMITTEE MUST PROVIDE IMMEDIATE NOTIFICATION TO DEP FOR ANY INCIDENT CAUSING OR THREATENING POLLUTION (NO LATER THAN FOUR (4) HOURS AFTER BECOMING AWARE OF THE INCIDENT). IN ADDITION, ANY NON-COMPLIANCE WITH THE THAT MAY ENDANGER HEALTH OR THE ENVIRONMENT MUST BE REPORTED WITHIN 24 HOURS, AND A WRITTEN REPORT MUST BE PROVIDED WITHIN FIVE (5) DAYS.

SITE LAYOUT NOTES

1. CONTRACTOR SHALL REFER TO THE SUBSTATION PLANS FOR THE EXACT LOCATION OF UTILITY ENTRANCES AND SUBSTATION DIMENSIONS.
2. ALL DIMENSIONS ARE TO FACE OF CURB OR EDGE OF SIDEWALK UNLESS NOTED OTHERWISE.
3. CONTRACTOR SHALL PROVIDE ALL LABOR AND MATERIALS FOR THE INSTALLATION OF TRAFFIC SIGNAGE AND PAVEMENT MARKINGS AS SHOWN ON THE CONSTRUCTION PLANS.
4. ALL NON-LANDSCAPED ISLANDS SHALL BE PAINTED WITH STRIPES 4" WIDE, AT 45° AND 2 FEET O.C.
5. ALL STRIPING SHALL BE 4" WIDE UNLESS NOTED OTHERWISE.
6. ALL DIMENSIONS SHOWN ON THIS PLAN SHALL BE FIELD VERIFIED BY THE CONTRACTOR PRIOR TO CONSTRUCTION. CONTRACTOR SHALL NOTIFY ENGINEER OF ANY DISCREPANCIES BETWEEN THE PLAN AND FIELD CONDITIONS. CONTRACTOR IS RESPONSIBLE FOR ALL DIMENSIONS AT THE PROJECT SITE.
7. SEE DETAIL SHEETS FOR ADDITIONAL CONSTRUCTION INFORMATION.
8. CONTRACTOR SHALL NEATLY SAW-CUT ALL JOINTS WHERE THE PROPOSED CONSTRUCTION MEET EXISTING PAVEMENT AND CONCRETE.

CONSTRUCTION WASTE RECYCLING/DISPOSAL

1. ALL DEMOLITION WASTE AND CONSTRUCTION DEBRIS SHALL BECOME THE PROPERTY OF THE CONTRACTOR UNLESS OTHERWISE DESIGNATED AND SHALL BE REMOVED BY THE CONTRACTOR AND DISPOSED OF OFFSITE IN A STATE APPROVED WASTE SITE IN ACCORDANCE WITH ALL LOCAL AND STATE CODES AND PERMIT REQUIREMENTS.
2. THE BURNING OF CLEARED MATERIAL AND DEBRIS SHALL NOT BE ALLOWED.
3. THE CONTRACTOR IS RESPONSIBLE FOR MANAGING IMPORT AND EXPORT MATERIAL IN ACCORDANCE WITH THE PADEP'S MANAGEMENT OF FILL POLICY (MOST RECENT EDITION) THE MATERIALS MANAGEMENT PLAN, COA, AND ENVIRONMENTAL COVENANT. THE CONTRACTOR IS RESPONSIBLE FOR THE COST OF ANALYTICAL TESTING TO CHARACTERIZE MATERIALS IN ACCORDANCE WITH THE CLEAN FILL POLICY, AND RESPONSIBLE FOR THE COSTS ASSOCIATED WITH DISPOSING OF EXPORT MATERIAL IN ACCORDANCE WITH THE POLICY.
4. CEC NOTES THAT HISTORIC FILLS (FILLS WITH RESIDUALS PLACED PRIOR TO 1988 AS DEFINED IN THE PENNSYLVANIA DEPARTMENT OF ENVIRONMENTAL PROTECTION (PADEP) CLEAN FILL POLICY) ARE SUBJECT TO ADDITIONAL TESTING, HANDLING, AND MANAGEMENT REQUIREMENTS PER THE PADEP'S CLEAN FILL POLICY THE MATERIALS MANAGEMENT PLAN, COA, AND ENVIRONMENTAL COVENANT. IF THEY NEED TO BE HAULED OFF-SITE, CEC CONCLUDES THE EXISTING FILL ON-SITE WOULD NEED TO BE TESTED TO DETERMINE BEST MANAGEMENT PRACTICES AS OUTLINED IN THE MATERIALS MANAGEMENT PLAN. REFER TO THE CLEAN FILL POLICY FOR MORE INFORMATION.
5. THE PADEP DEFINES ENVIRONMENTAL DUE DILIGENCE AS FOLLOWS REGARDING CLEAN FILL: INVESTIGATIVE TECHNIQUES INCLUDING BUT NOT LIMITED TO VISUAL PROPERTY INSPECTIONS, ELECTRONIC DATA BASE SEARCHES, REVIEW OF PROPERTY OWNERSHIP, REVIEW OF PROPERTY USE HISTORY, SANBORN MAPS, ENVIRONMENTAL QUESTIONNAIRES, TRANSACTION SCORES, ANALYTICAL TESTING, ENVIRONMENTAL ASSESSMENTS OR AUDITS. 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. DURING CONSTRUCTION, PADEP/CDD MUST BE CONTACTED WITHIN 24 HOURS IF SOIL SAMPLES ARE FOUND TO EXCEED CH. 250 MSC STANDARDS.
6. SEDIMENT, TRASH, OR ANY NON-NATIVE MATERIAL OBSERVED WITHIN CHANNELS, PIPES AND/OR CATCH BASINS SHOULD BE REMOVED FROM THE SITE AND RECYCLED OR DISPOSED OF IN WITH THE DEPARTMENT'S SOLID WASTE MANAGEMENT REGULATIONS AT 25 PA. CODE ACCORDANCE WITH THE PADEP APPROVED CLEAN UP PLAN THE MATERIALS MANAGEMENT PLAN, COA, AND ENVIRONMENTAL COVENANT.

GRADING NOTES

1. IT IS THE RESPONSIBILITY OF THE OWNER OR CONTRACTOR TO RETAIN A QUALIFIED GEOTECHNICAL ENGINEER TO ASSESS SUBSURFACE CONDITIONS FOR THE PROPOSED SUBSTATION AND BUILDING AREAS AND VERIFY THE STABILITY OF PROPOSED AND EXISTING SLOPES. CEC ASSUMES NO LIABILITY FOR SLOPE STABILITY OR RELATED GEOTECHNICAL CONDITIONS.
2. THE CONTRACTOR MUST CONDUCT INDEPENDENT VERIFICATION AND CONDUCT ADDITIONAL TESTS WHERE IT IS DETERMINED NECESSARY FOR CONSTRUCTION OF THE IMPROVEMENTS AT NO ADDITIONAL COST TO THE OWNER.
3. ALL SLOPES SHALL BE 2:1 (HORIZONTAL:VERTICAL) MAXIMUM UNLESS NOTED OTHERWISE.
4. THE CONTRACTOR IS RESPONSIBLE FOR THE OFFSITE DISPOSAL OF ANY AND ALL EXCESS OR UNSUITABLE MATERIAL UNABLE TO BE PLACED ON SITE AND FOR IMPORTING ANY BORROW MATERIAL NECESSARY TO COMPLETE THE WORK. THE CONTRACTOR SHALL PROVIDE A SUITABLE DISPOSAL SITE FOR EXCESS SOIL MATERIAL WHEN APPLICABLE. IN ACCORDANCE WITH ALL LOCAL AND STATE CODES AND PERMIT REQUIREMENTS, ALL EXCESS SOIL MATERIALS SHALL BECOME THE PROPERTY OF THE CONTRACTOR UNLESS OTHERWISE DESIGNATED.
5. ALL EXCAVATION IS CONSIDERED UNCLASSIFIED UNLESS OTHERWISE NOTED. THE CONTRACTOR IS RESPONSIBLE FOR ALL MEANS, METHODS, AND MATERIALS OF CONSTRUCTION TO COMPLETE THE WORK. THE CONTRACTOR IS RESPONSIBLE FOR THE OFFSITE DISPOSAL OF ANY AND ALL EXCESS OR UNSUITABLE MATERIAL UNABLE TO BE PLACED ON SITE AND FOR IMPORTING ANY BORROW MATERIAL NECESSARY TO COMPLETE THE WORK.
6. IF DURING CONSTRUCTION GEOLOGIC HAZARDS ARE ENCOUNTERED, THE CONTRACTOR SHALL CONTACT THE OWNER, CIVIL ENGINEER, AND GEOTECHNICAL ENGINEER TO DETERMINE THE PROPER HANDLING OF THESE MATERIALS.
7. CONTRACTOR SHALL REFER TO GEOTECHNICAL REPORT.
8. ADJUST GRADES WHERE NECESSARY TO PROVIDE POSITIVE DRAINAGE TOWARDS EXISTING OR PROPOSED STORM SEWER STRUCTURES AND/OR CHANNELS. NOTIFY ENGINEER.
9. ALL ELEVATIONS SHOWN ARE REFERENCED TO BENCHMARKS ON THE PROJECT SURVEY AND SHALL BE FIELD VERIFIED BY THE CONTRACTOR AT GROUNDBREAKING.
10. ALL SPOT ELEVATIONS ARE REFERENCED TO THE FINISHED GROUND SURFACE UNLESS OTHERWISE NOTED.

POST-CONSTRUCTION STORMWATER MANAGEMENT NOTES

1. DISTANCES SHOWN ON PIPING ARE HORIZONTAL DISTANCES FROM CENTER OF STRUCTURE TO CENTER OF STRUCTURE, UNLESS OTHERWISE NOTED.
2. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ALL COSTS ASSOCIATED WITH THE INSTALLATION, INSPECTION, TESTING, AND FINAL ACCEPTANCE OF NEW STORMWATER MANAGEMENT FACILITIES. THE CONTRACTOR SHALL COORDINATE WITH ALL APPLICABLE REGULATING AUTHORITIES, AS APPROPRIATE.
3. ALL STORMWATER MANAGEMENT FACILITIES AND CONVEYANCE SYSTEMS SHALL BE INSTALLED IN ACCORDANCE WITH APPLICABLE LOCAL AND STATE CODES AND REGULATIONS.
4. UNDERGROUND DETENTION/STORAGE SYSTEMS LOCATED WITHIN, BENEATH, OR IMMEDIATELY ADJACENT TO IDENTIFIED OR SUSPECTED CONTAMINATION ZONES SHALL BE LINED WITH SEAMAN CORPORATION XR-5® GEOMEMBRANE OR APPROVED EQUAL. SYSTEMS LOCATED OUTSIDE IDENTIFIED CONTAMINATION ZONES MAY BE LINED WITH SEAMAN CORPORATION XR-3® GEOMEMBRANE OR APPROVED EQUAL. SUBJECT TO CONTRACTOR VERIFICATION OF SITE CONDITIONS AND MANUFACTURER CONFIRMATION OF CHEMICAL COMPATIBILITY. CONTRACTOR REMAINS RESPONSIBLE FOR LINER SELECTION AND PERFORMANCE.
5. ALL STORM PIPE AND STRUCTURE CONNECTIONS SHALL REQUIRE A WATERTIGHT SEAL.
6. THE CONTRACTOR SHALL SUBMIT SHOP DRAWINGS FOR APPROVAL FOR ALL UNDERGROUND DETENTION SYSTEMS, INLETS, MANHOLES, ENDWALLS, AND PIPES.

MONITORING WELL AND ENVIRONMENTAL NOTES

1. CONTRACTOR SHALL BE SOLELY RESPONSIBLE FOR COORDINATING WITH THE EPA AND ALL APPLICABLE AGENCIES TO ABANDON OR MODIFY EXISTING MONITORING WELLS AS NOTED IN THE PLAN SHEETS AND INSTALL ANY REQUIRED REPLACEMENT WELL, INCLUDING ALL PERMITS, APPROVALS, MEANS AND METHODS, AND COMPLIANCE WITH APPLICABLE REGULATIONS. ENGINEER AND OWNER ASSUME NO RESPONSIBILITY FOR REGULATORY COORDINATION OR FIELD EXECUTION.
2. CONTRACTOR SHALL OBTAIN THE SITE SAFETY PLAN AND SOIL MANAGEMENT PLAN FROM THE OWNER, MERCER NODE PROPERTY, LLC, ACKNOWLEDGE RECEIPT THEREOF, AND ENFORCE ALL REQUIREMENTS FOR ITSELF AND ALL SUBCONTRACTORS. NO SITE DISTURBANCE ACTIVITIES SHALL COMMENCE UNTIL THESE PLANS ARE OBTAINED AND FULLY IMPLEMENTED, AND COMPLIANCE SHALL BE MAINTAINED FOR THE DURATION OF CONSTRUCTION.

UTILITY NOTES

1. IT IS THE CONTRACTOR'S RESPONSIBILITY TO CONTACT UTILITY COMPANIES WHICH MAY HAVE UTILITIES WITHIN OR NEAR THE CONSTRUCTION AREA BEFORE COMMENCING WORK. THE CONTRACTOR SHALL PROVIDE 3 WORKING DAYS MINIMUM NOTICE TO ALL UTILITY COMPANIES PRIOR TO BEGINNING CONSTRUCTION. A LIST OF THE UTILITY COMPANIES WHICH THE CONTRACTOR MUST CALL BEFORE COMMENCING WORK IS PROVIDED ON THIS SHEET. THIS LIST SERVES AS A GUIDE ONLY AND IS NOT INTENDED TO LIMIT THE UTILITY COMPANIES WHICH THE CONTRACTOR MAY WISH TO NOTIFY.
2. THE CONTRACTOR IS EXPRESSLY CAUTIONED THAT THE LOCATIONS AND/OR ELEVATIONS OF THE EXISTING UTILITIES SHOWN HEREON ARE BASED ON TOPOGRAPHIC SURVEYS, RECORD DRAWINGS, AND OTHER INFORMATION AVAILABLE TO THE ENGINEER AT THE TIME OF THE SURVEY AND HAVE NOT BEEN INDEPENDENTLY VERIFIED BY THE OWNER OR ENGINEER. THE CONTRACTOR SHALL NOT RELY UPON THIS INFORMATION AS BEING EXACT OR COMPLETE. SHOULD UNCHARTED UTILITIES BE ENCOUNTERED DURING EXCAVATION OPERATIONS, THE CONTRACTOR SHALL NOTIFY THE OWNER AND THE ENGINEER AS SOON AS POSSIBLE. NO GUARANTEE IS MADE THAT ALL EXISTING UNDERGROUND UTILITIES ARE SHOWN OR THAT THE LOCATION OF THOSE SHOWN ARE ENTIRELY ACCURATE. FINDING THE ACTUAL LOCATION OF ANY EXISTING UTILITIES IS THE CONTRACTOR'S RESPONSIBILITY AND SHALL BE DONE BEFORE PERFORMING ANY WORK IN THE VICINITY. FURTHERMORE, THE CONTRACTOR SHALL BE SOLELY RESPONSIBLE FOR ANY AND ALL DAMAGES DUE TO THE CONTRACTOR'S FAILURE TO DETERMINE THE EXACT LOCATION AND/OR PROTECT ANY UNDERGROUND UTILITIES. THE OWNER OR ENGINEER WILL ASSUME NO LIABILITY FOR ANY DAMAGES SUSTAINED OR COSTS INCURRED BECAUSE OF THE OPERATIONS IN THE VICINITY OF EXISTING UTILITIES OR STRUCTURES, NOR FOR TEMPORARY BRACING AND SHORING OF SAME. IF IT IS NECESSARY TO SHORE, BRACE, SWING OR RELOCATE A UTILITY, THE UTILITY COMPANY OR DEPARTMENT AFFECTED SHALL BE CONTACTED BY THE CONTRACTOR AND THEIR PERMISSION OBTAINED REGARDING THE METHOD TO USE FOR SUCH WORK.
3. PROPOSED SUBSTATION AND TRANSMISSION LINES SHALL BE CONSTRUCTED IN ACCORDANCE WITH ALL APPLICABLE UTILITY COMPANY SPECIFICATIONS. ALL UTILITY DISCONNECTION, REMOVAL, RELOCATION, CUTTING, CAPPING, AND/OR ABANDONMENT SHALL BE COORDINATED WITH THE APPROPRIATE UTILITY COMPANY OR AGENCY.
4. THE CONTRACTOR SHALL FURNISH AND INSTALL ALL MATERIALS IN ACCORDANCE WITH THE UTILITY COMPANY'S REGULATIONS, SPECIFICATIONS, AND STANDARD DETAILS UNLESS OTHERWISE NOTED ON THE PLANS.
5. THE CONTRACTOR SHALL SUBMIT SHOP DRAWINGS AND PRODUCT SUBMITTALS TO UTILITY COMPANIES PRIOR TO ORDERING MATERIALS. APPROVAL OF MATERIALS AND EQUIPMENT BY UTILITY COMPANIES IS REQUIRED PRIOR TO INSTALLATION.
6. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ALL FEES ASSOCIATED WITH THE INSTALLATION, INSPECTION, TESTING, AND FINAL ACCEPTANCE OF PROPOSED UTILITIES UNLESS OTHERWISE COORDINATED WITH THE OWNER BEFOREHAND.
7. 18-INCH MINIMUM VERTICAL SEPARATION MUST BE MAINTAINED AT ALL UTILITY CROSSINGS UNLESS OTHERWISE NOTED ON THE PLAN.
8. THE CONTRACTOR SHALL BE RESPONSIBLE FOR COORDINATING THE SEQUENCING OF CONSTRUCTION FOR ALL UTILITY LINES. ALL UTILITIES SHALL BE INSTALLED PRIOR TO PAVEMENT CONSTRUCTION. WHERE UTILITIES ARE INSTALLED WITHIN EXISTING PAVEMENT, CONTRACTOR TO BACKFILL UTILITY TRENCH IN ACCORDANCE WITH PROJECT REQUIREMENTS AND RESTORE SURFACE TO EXISTING CONDITION.
9. SHOWN UTILITY LOCATIONS ARE APPROXIMATE; THE CONTRACTOR IS RESPONSIBLE FOR VERIFYING EXACT LOCATIONS. IF ANY DISCREPANCIES ARE FOUND, THE CONTRACTOR SHALL TEST ALL UTILITIES AND REPORT ANY CONFLICTS TO THE OWNER AND ENGINEER. THE ENGINEER IS HELD HARMLESS FOR CONFLICTS NOT REPORTED PRIOR TO CONSTRUCTION.
10. TRENCH SPOILS SHALL BECOME THE PROPERTY OF THE CONTRACTOR UNLESS OTHERWISE DESIGNATED. TRENCH SPOILS SHALL BE TESTED TO DETERMINE FEASIBILITY TO BE INCORPORATED INTO EARTHWORK AT OTHER LOCATIONS ON THE SITE OR REQUIRED TO BE REMOVED BY THE CONTRACTOR AND DISPOSED OF OFF SITE AT AN ADDITIONAL COST TO THE OWNER IN ACCORDANCE WITH LOCAL AND STATE CODES AND PERMIT REQUIREMENTS.
11. AN AS-BUILT DRAWING OF NEW UTILITY SERVICES SHALL BE PREPARED BY THE CONTRACTOR AND SUBMITTED TO THE OWNER UPON COMPLETION OF THE PROJECT.

DEMOLITION NOTES

1. THE CONTRACTOR SHALL BE RESPONSIBLE FOR REMOVAL AND DISPOSAL OFF-SITE OF ALL ITEMS SHOWN ON THE DEMOLITION PLAN INCLUDING ITEMS ENCOUNTERED DURING EXCAVATION OF BUILDING FOUNDATIONS AND UTILITY PLACEMENT.
2. PRIOR TO STARTING DEMOLITION, IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO OBTAIN ALL PERMITS REQUIRED BY LOCAL GOVERNMENTAL AGENCIES.
3. THE CONTRACTOR SHALL COORDINATE WITH THE LOCAL UTILITY COMPANIES FOR THE DISCONNECTION AND REMOVAL OF SERVICES TO EXISTING STRUCTURES.
4. ITEMS SHOWN ON THE DEMOLITION PLAN TO BE SALVAGED SHALL BE TRANSPORTED TO LOCATION SPECIFIED BY THE OWNER OR HIS/HER REPRESENTATIVE.
5. ITEMS OF SALVAGEABLE VALUE TO THE CONTRACTOR MAY BE REMOVED WITH THE OWNER OR HIS/HER REPRESENTATIVE'S PERMISSION. THE CONTRACTOR SHALL NOT STORE THESE ITEMS ON SITE.
6. THE CONTRACTOR MAY NOT USE EXPLOSIVES OR BURN DEBRIS.
7. CONDUCT DEMOLITION OPERATIONS TO ENSURE MINIMAL INTERFERENCE WITH ROADS, SIDEWALKS AND ANY OTHER ADJACENT OCCUPIED FACILITIES.
8. DO NOT CLOSE OR OBSTRUCT ROADS, SIDEWALKS OR ANY OTHER OCCUPIED FACILITIES WITHOUT PERMISSION FROM THE LOCAL AUTHORITY HAVING JURISDICTION AND/ OR PROPERTY OWNERS.
9. THE CONTRACTOR SHALL ENSURE SAFE PASSAGE OF PERSON TRAVERSING THROUGH OR AROUND THE CONSTRUCTION SITE.
10. THE CONTRACTOR SHALL PROTECT FROM DAMAGE, SURROUNDING STRUCTURES, UTILITIES AND OTHER FACILITIES DURING DEMOLITION AND REMOVAL OPERATIONS.
11. BUILDING STRUCTURES INCLUDING FOUNDATIONS OR BASEMENTS SHALL BE REMOVED AND BACKFILLED WITH APPROVED BACKFILL MATERIAL. BACKFILL MATERIAL SHALL BE PLACED IN MAXIMUM EIGHT INCH LIFTS AND COMPACTED IN ACCORDANCE WITH THE GEOTECHNICAL REPORT OR A MINIMUM OF 95% OF A STANDARD PROCTOR.
12. UTILITIES SHALL BE REMOVED AND BACKFILLED WITH APPROVED BACKFILL MATERIAL. BACKFILL MATERIAL SHALL BE PLACED IN MAXIMUM EIGHT INCH LIFTS AND COMPACTED IN ACCORDANCE WITH THE GEOTECHNICAL REPORT OR A MINIMUM OF 95% OF A STANDARD PROCTOR.
13. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ENSURING THE CONSTRUCTION SITE AND SURROUNDING AREAS ARE FREE OF ACCUMULATED DEBRIS.

FIRST ENERGY GUIDELINES

WORKING SAFETY RESTRICTIONS

- OCCUPATIONAL SAFETY HEALTH ADMINISTRATION (OSHA) SAFE-WORKING CLEARANCE FROM A PERSON OR ANY CONDUCTIVE OBJECT TO THE ENERGIZED BARE WIRES SHALL BE MAINTAINED AT ALL TIMES. CONDUCTIVE OBJECTS DO NOT HAVE TO MAKE PHYSICAL CONTACT WITH THE CONDUCTORS FOR ELECTRICITY TO FLOW IN UNWANTED DIRECTIONS.
- THE LINE SHALL BE BE CONSIDERED ENERGIZED AT ALL TIMES.
- NOTICE: CONDUCTOR POSITION CHANGES CONTINUOUSLY DEPENDING ON LOAD, AMBIENT TEMPERATURE, WIND SPEED, ETC. THE DEVELOPER/CONTRACTOR IS RESPONSIBLE FOR MONITORING CONDUCTOR POSITION TO DETERMINE OSHA SAFE WORKING CLEARANCE.
- PARKING OR OPERATING A VEHICLE OR EQUIPMENT WITHIN OR ADJACENT TO THE RIGHT-OF-WAY MAY INDUCE AN ELECTRIC CHARGE. INDUCED ELECTRIC CHARGES MAY ALSO BE IMPOSED ON OBJECTS SUCH AS FENCES, SIGNS, OR ANY OTHER CONDUCTIVE OBJECT. IT IS THE RESPONSIBILITY OF THE DEVELOPER TO SATISFY THEMSELVES ON THE NECESSITY OF GROUNDING AND TO ENSURE THAT A PROPER GROUNDING SYSTEM DESIGNED BY A REGISTERED DESIGN PROFESSIONAL IS IN PLACE, IF APPLICABLE. CONSTRUCTION VEHICLES AND EQUIPMENT OPERATING NEAR TRANSMISSION LINES MAY ALSO REQUIRE GROUNDING.

RIGHT OF WAY ACCESS

- FIRSTENERGY-AUTHORIZED PERSONNEL, VEHICLES AND EQUIPMENT MUST HAVE CONTINUOUS ACCESS TO THE RIGHT-OF-WAY AND ALL FIRSTENERGY STRUCTURES.
- ALL OBJECTS OR EQUIPMENT LEFT WITHIN THE RIGHTS-OF-WAY ARE SUBJECT TO REMOVAL. FIRSTENERGY IS NOT RESPONSIBLE FOR THE REPAIR OR REPLACEMENT OF ANYTHING IN THE TRANSMISSION RIGHTS-OF-WAY DAMAGED OR DESTROYED BECAUSE OF EMERGENCY OR MAINTENANCE OPERATIONS.
- FIRSTENERGY RESERVES THE RIGHT TO INSPECT AT ANY TIME CONSTRUCTION OR OTHER ACTIVITIES WITHIN THE RIGHTS-OF-WAYS, EASEMENTS, OR PROPERTY OWNED BY FIRSTENERGY.

RIGHT-OF-WAY RESTRICTIONS

- CONSENTS AND/OR EASEMENTS FOR ANY UTILITY, ACCESS ROAD, ETC. WILL BE LIMITED TO A MAXIMUM OF 20 FEET IN WIDTH WITHIN THE FIRSTENERGY RIGHTS-OF-WAY UNLESS PROVISIONS ARE DEFINED IN THE EASEMENTS, DEEDS, ETC.
- CHANGES TO GRADE ELEVATIONS WITHIN THE FIRSTENERGY TRANSMISSION RIGHT OF WAY ARE NOT PERMITTED. GROUND DISTURBANCE OR EXCAVATIONS ARE NOT PERMITTED WITHIN 50 FEET OF ANY FIRSTENERGY STRUCTURE (POLES, TOWERS, GUYS, ETC). IN THE EVENT THAT THE EASEMENT WIDTH FROM THE STRUCTURE FOUNDATION IS LESS THAN 50', THE DISTANCE FROM THE STRUCTURE TO THE EDGE OF THE EASEMENT WILL BE THE DISTANCE USED.
- PROTECTIVE BARRIERS MUST BE USED FOR ANY DRIVEWAYS, ACCESS ROADS, OR PARKING AREAS, ETC., WITHIN 25 FEET OF ANY FIRSTENERGY STRUCTURE (POLES, TOWERS, GUYS, ETC).
- RIGHTS-OF-WAY, TEMPORARY EASEMENTS, LIMITS OF DISTURBANCE, LIMITS OF CONSTRUCTION, ETC., SHALL NOT INCLUDE TRANSMISSION OR DISTRIBUTION STRUCTURES WITHIN ITS LIMITS.
- UNLESS LEGAL DOCUMENTS MAKE PROVISIONS FOR SUCH, NO BUILDINGS, LIGHTING FIXTURES, SIGNS, BILLBOARDS, SWIMMING POOLS, DECKS, FLAG POSTS, SHEDS, BARNs, GARAGES, PLAYGROUNDS, FENCES OR OTHER STRUCTURES ARE PERMITTED WITHIN THE RIGHT OF WAY. OTHER RESTRICTIONS MAY APPLY FOR SPECIFIC SITUATIONS. SEPTIC SYSTEMS, LEACH BEDS, AND/OR WELLS ARE NOT PERMITTED WITHIN A FIRSTENERGY TRANSMISSION RIGHT OF WAY.
- KITE FLYING, MODEL AIRPLANE FLYING, OR SIMILAR ACTIVITY, IS STRICTLY PROHIBITED ON OR NEAR FIRSTENERGY TRANSMISSION RIGHT OF WAY.
- WHEN UTILITIES ARE APPROVED AND INSTALLED IN THE FIRSTENERGY RIGHTS OF WAYS/EASEMENTS, ETC., VISIBLE MARKERS IDENTIFYING THE UTILITY, OWNER AND CONTACT INFORMATION MUST BE INSTALLED ON EACH SIDE OF THE RIGHT OF WAY AT NO GREATER THAN 300 FEET INTERVALS. PROVIDE ON THE PLANS THE EXACT LOCATION OF THE PIPELINE INCLUDING GPS LATITUDE AND LONGITUDE COORDINATES IN DECIMAL DEGREES. ALSO, PROVIDE ON THE DRAWINGS, PIPE DIAMETER, PIPE DEPTH, PIPE MATERIAL, DIMENSIONS FROM THE STRUCTURE(S), RIGHTS-OF-WAYS, PROPERTY LINES, ETC.
- THE INSTALLATION OF 'DANGER —OVERHEAD ELECTRIC LINES' SIGNS ARE RECOMMENDED IN THE AREA OF THE TRANSMISSION RIGHTS-OF-WAY. PLEASE REFERENCE THE 'MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES' AT WWW.MUTCD.FHWA.DOT.GOV/ FOR APPROPRIATE SIGNS, ETC.
- DAMAGE TO ANY FIRSTENERGY FACILITIES DURING THE PROPOSED CONSTRUCTION MUST BE REPORTED IMMEDIATELY TO THE CONTACT CENTER.
- UNLESS LEGAL DOCUMENTS MAKE PROVISIONS FOR SUCH, BLASTING IS NOT PERMITTED WITHIN THE FIRSTENERGY RIGHTS-OF-WAYS OR EASEMENTS. EXPLOSIVE OR COMBUSTIBLE LIQUID, SUBSTANCE, OR MATERIAL SHALL BE STORED WITHIN THE RIGHT-OF-WAY. PROHIBITED MATERIALS INCLUDE BUT ARE NOT LIMITED TO: FUEL, WOOD CHIPS, MULCH, BRUSH, AND TIRES, ETC.
- NO SOIL PILES OR OTHER MATERIALS SHALL BE PLACED OR STORED UNDER THE TRANSMISSION LINE CONDUCTORS AT ANY TIME.
- WHATEVER DISTURBANCES ARE CAUSED DURING CONSTRUCTION MUST BE RESTORED TO AN EQUAL TO OR BETTER THAN BEFORE CONSTRUCTION CONDITION WITHIN 7 DAYS OF COMPLETION. ALL AREAS OF EXPOSED SOIL MUST BE RESEDED AND MULCHED WITHIN 7 DAYS OF COMPLETION.
- ALL VEGETATION ON OR ADJACENT TO THE RIGHT-OF-WAY SHALL BE LOW GROWING. VEGETATION THAT PROMOTES A LOW GROWING PLANT COMMUNITY OF GRASSES, HERBS AND SHRUBS THAT ARE 5-3.5 FOOT MAXIMUM MATURE HEIGHT, (3-FOOT IN N.J.), ARE PERMITTED ON FIRSTENERGY TRANSMISSION RIGHTS OF WAY. HOWEVER IT IS PREFERRED THAT THE PLANTING OF ANY WOODY VEGETATION BE DONE OUTSIDE THE WIRE ZONE OF TRANSMISSION FACILITIES. (THE WIRE ZONE IS THE AREA DIRECTLY UNDER THE CONDUCTORS AND EXTENDING TO ABOUT 15 ON EACH SIDE). (ALL APPROVED SHRUBBERY PLANTED NEAR FIRSTENERGY STRUCTURES (POLES, TOWERS, GUYS, ETC.) SHALL ALLOW FOR WORKING AREA AND ACCESSIBILITY AT GROUND LEVEL (NO CLOSER THAN 10 FEET FROM THE STRUCTURE, IN ANY DIRECTION).
- FIRSTENERGY HAS INSTALLED COUNTERPOISE ON NUMEROUS STRUCTURE LOCATIONS. THE EXACT LOCATIONS ARE NOT MARKED ON THE FIELD. SHOULD THE COUNTERPOISE BE DISTURBED OR DAMAGED, IT IS THE RESPONSIBILITY OF THE DEVELOPER AND/OR ITS SUBCONTRACTORS, TO IMMEDIATELY NOTIFY THE COMPANY'S MANAGER, TRANSMISSION LINE ENGINEERING BY CALLING THE CONTACT CENTER. COST OF REPAIRS FOR DAMAGED FIRSTENERGY FACILITIES WILL BE THE RESPONSIBILITY OF THE DEVELOPER/CONTRACTOR.
- FOR PIPELINE REQUESTS TO RUN PARALLEL TO THE FIRSTENERGY EASEMENT/RIGHT-OF-WAY, PIPELINES SHALL BE LOCATED AS CLOSE AS POSSIBLE TO THE EDGE OF THE RIGHT OF WAY. PARALLEL RUNS SHOULD BE OUTSIDE THE RIGHTS-OF-WAY, BUT WHEN APPROVAL CAN BE ALLOWED TO RUN WITHIN 10 FEET OF THE OUTSIDE EDGE OF THE RIGHT-OF-WAY, MAXIMUM, THAT INCLUDES THE LIMITS OF TRENCHING.
- IF POSSIBLE, IT IS RECOMMENDED THAT THE PIPELINES BE NON-METALLIC.
- PIPELINES OR RELATED APPURTENANCES SHALL NOT BE PLACED WITHIN 50 FEET OF A TRANSMISSION STRUCTURE, GUY ANCHOR, ETC. IN THE EVENT THAT THE OUTSIDE EDGE OF THE FIRSTENERGY EASEMENT TO THE TRANSMISSION STRUCTURE MEASURES LESS THAN THIS WIDTH, THE EDGE OF THE EASEMENT, CORNER, AND/OR ANCHOR CAN BE COMPROMISED BY EXCAVATION OPERATIONS.
- IT IS POSSIBLE THAT THE REQUESTOR WILL BE REQUIRED TO REIMBURSE FIRSTENERGY FOR ANALYTICAL AND ENGINEERING EXPENSES. FEES MAY ALSO BE REQUIRED FOR USE OF ANY FIRSTENERGY OWNED PROPERTY.
- THE DOUBLE-DITCH METHOD SHOULD BE UTILIZED FOR PIPELINE CONSTRUCTION AS THE EXCAVATIONS COMMENCE. THE TOPSOIL IS TO BE PLACED ON ONE SIDE OF THE TRENCH AND THE SUBSOIL TO THE OTHER SIDE.
- APPLICABLE PERMITTING FOR ANY CONSTRUCTION OR OPERATIONAL ACTIVITIES ASSOCIATED WITH THE PROJECT CONDUCTED ON THE FIRSTENERGY EASEMENT/RIGHTS-OF-WAY IS THE RESPONSIBILITY OF THE DEVELOPER.

GENERAL NOTES

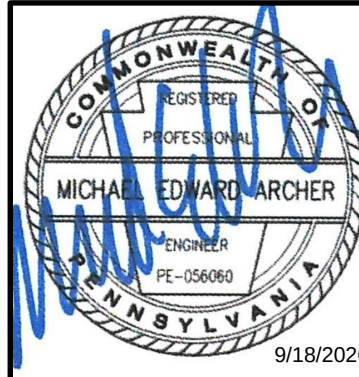
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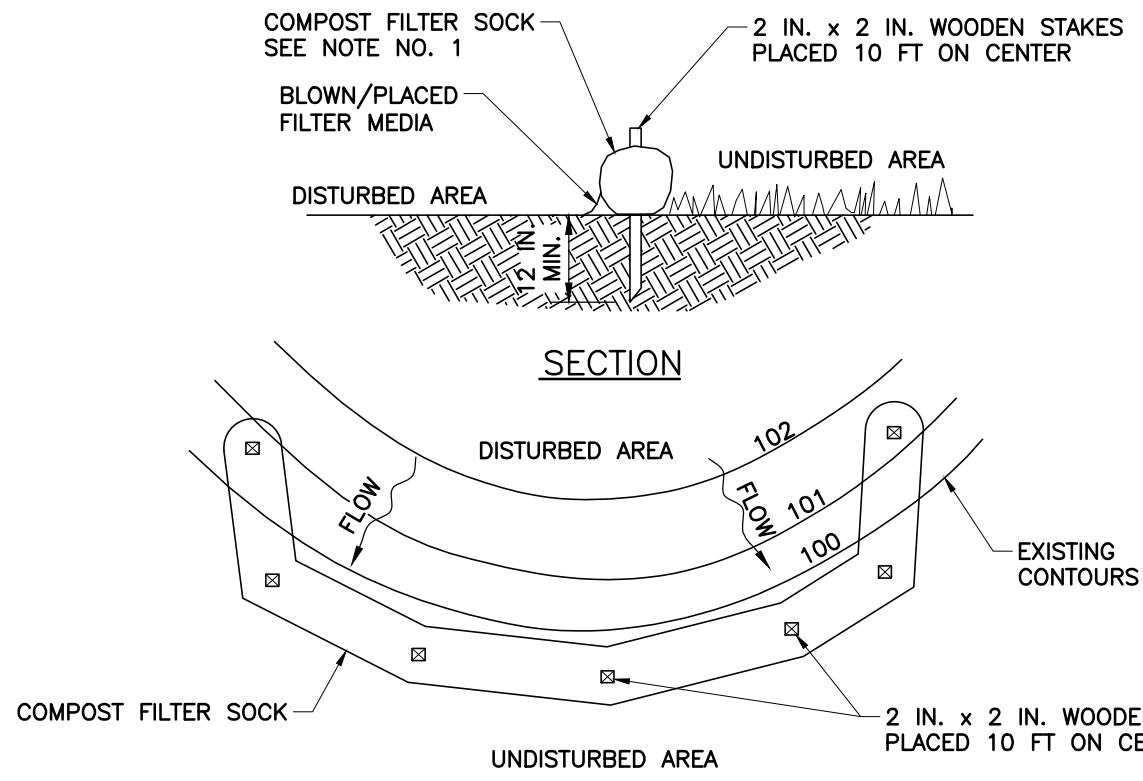


Civil & Environmental
Consultants, Inc.

MERCER NODE PROPERTY, LLC
MERCER NODE DEVELOPMENT
200 CLARK STREET
CITY OF SHARON
MERCER COUNTY, PA



DATE: APRIL 2025
DWG SCALE: N/A
PROJECT NO: 353-024
APPROVED BY: MEA
DRAWN BY: BJH
CHECKED BY: VWF



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

COMPOST FILTER SOCK

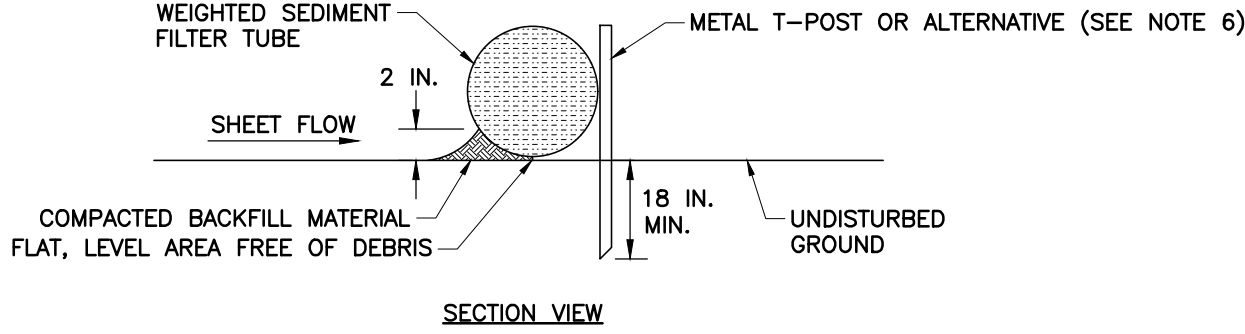
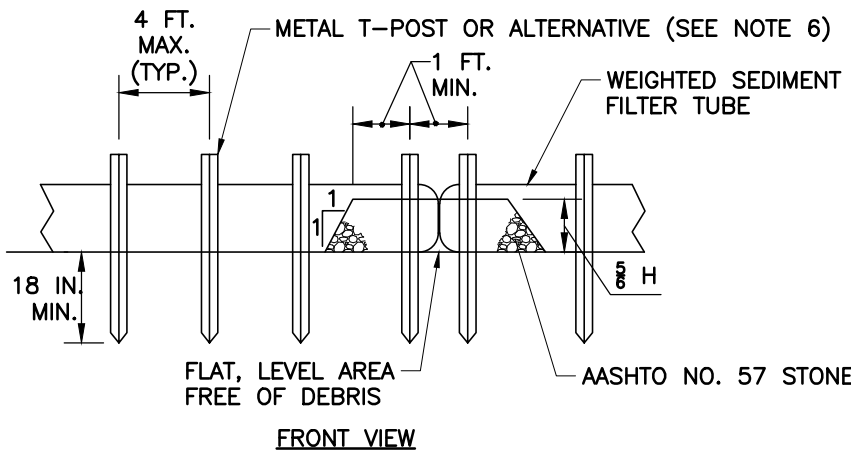
COMPOST STANDARDS	
ORGANIC MATTER CONTENT	25%-100% (DRY WEIGHT BASIS)
ORGANIC PORTION	FIBROUS AND ELONGATED
PH	5.5-8.5
MOISTURE CONTENT	30%-60%
PARTICLE SIZE	30%-50% PASS THROUGH 8" SIEVE
SOLUBLE SALT CONCENTRATION	5.0 DS/M (MMHOS/CM) MAXIMUM

COMPOST FILTER SOCK SIZE CHART		
SOCK NUMBER	SIZE (INCHES)	LENGTH (FT)
1A	12	120
2A	12	80
3A	12	55
4A	12	60
5A	12	80
6A	12	35
7A	12	50
8A	12	15
9A	12	15
10A	12	70
11A	12	20
12A	12	15
13A	12	20
14A	12	20
15A	12	20
16A	12	15
17A	12	25
18A	12	45
19A	12	20
20A	12	25
21A	12	45
22A	12	105
23A	12	95
24A	12	80
25A	12	50
26A	12	100
27A	12	65
28A	12	120
29A	12	25
30A	12	25
31A	12	50

ABACT SEDIMENT BARRIER CONTROL EQUIVALENCIES			
FILTER SOCK SIZE	WEIGHTED SEDIMENT FILTER TUBES	STACKED FILTER SOCK	ADVANCED SILT FENCE®
12"	12"	—	SILTRON®16
18"	18" TO 20"	—	SILTRON®16
24"	—	2-12", 1-12" STACKED FILTER SOCK	SILTRON®21
32"	—	2-18", 1-18" STACKED FILTER SOCK	SILTRON®28

NOTES:
1. THE ABOVE TABLE DETAILS ACCEPTABLE ALTERNATIVES TO THE SEDIMENT BARRIER CONTROLS SHOWN ON THE PLANS.

ABACT SEDIMENT BARRIER CONTROL EQUIVALENCY TABLE



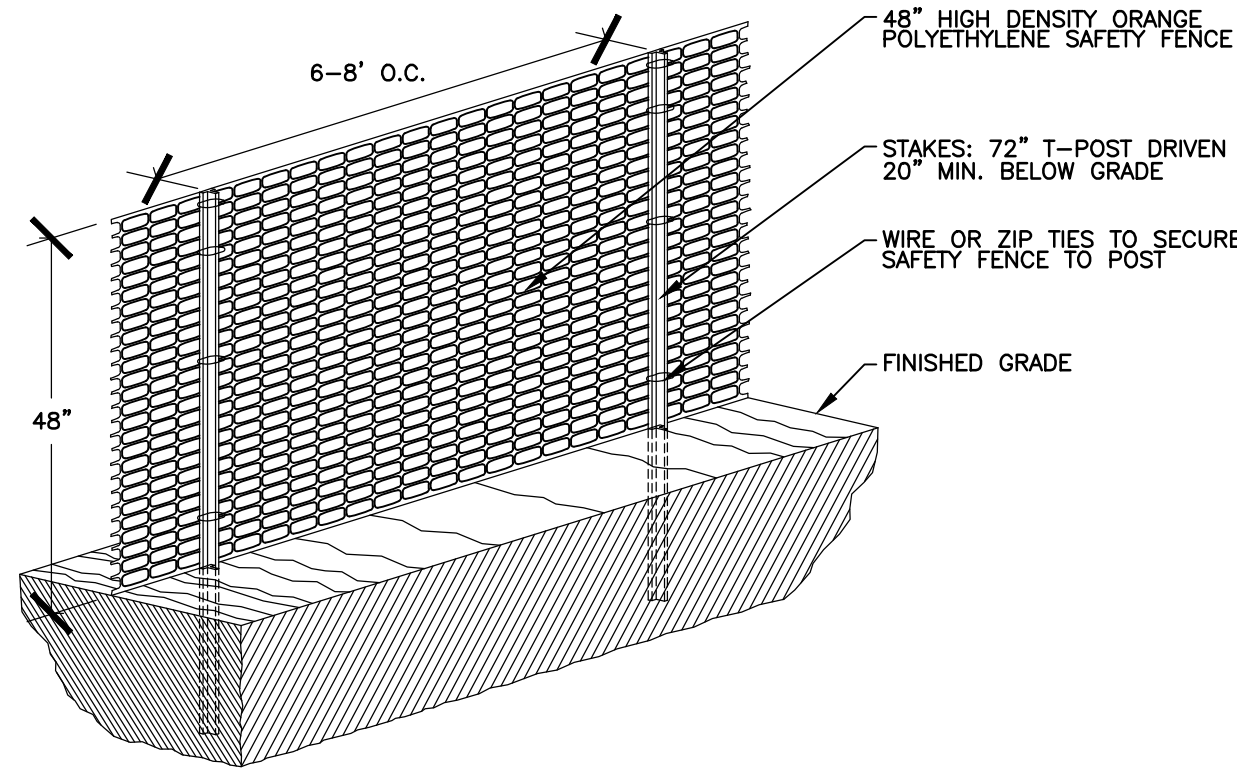
- NOTES:
- A SEDIMENT TUBE PLACEMENT AREA SHALL BE PREPARED SO THAT IT IS FREE OF ALL DEBRIS, INCLUDING ROCKS, STICKS, ROOTS, ETC. A 2" LAYER OF AASHTO #57 STONE SHALL BE PLACED WHERE THE LOGS COME TOGETHER. ENDS OF TUBES MAY BE OVERLAPPED ACCORDING TO MANUFACTURER'S SPECIFICATIONS INSTEAD OF THE AASHTO #57 STONE.
 - SEDIMENT TUBES SHALL BE PLACED AT EXISTING LEVEL GRADE. ENDS SHALL BE EXTENDED UPSLOPE AT 45 DEGREES TO THE MAIN FILTER LOG ALIGNMENT FOR A MINIMUM OF 8 FEET.
 - SEDIMENT TUBES SHALL BE INSPECTED WEEKLY AND AFTER EACH RUNOFF EVENT.
 - SEDIMENT DEPOSITS SHALL BE CLEANED FROM THE LOG WHEN IT REACHES HALF THE HEIGHT OF THE TUBE.
 - DAMAGED TUBES SHALL BE REPLACED WITHIN 24 HOURS OF INSPECTION. A SUPPLY OF TUBES SHALL BE MAINTAINED ON SITE FOR THIS PURPOSE.
 - SEDIMENT TUBES WHICH ARE INSTALLED ON IMPERVIOUS SURFACES MAY BE ANCHORED WITH SAND BAGS AS AN ALTERNATIVE TO METAL T-POST STAKES.
 - PER STANDARD CONSTRUCTION DETAIL #4-3 IN THE PA DEP E&S MANUAL, IN GENERAL, THE MAXIMUM SLOPE LENGTH FOR STANDARD SILT FENCE MAY BE USED FOR 12" DIAMETER TUBES AND SLOPE LENGTHS FOR REINFORCED SILT FENCE (TABLE 4.4 OR FIGURE 4.3) MAY BE USED FOR 18" TO 20" DIAMETER TUBES.

ALTERNATIVE - WEIGHTED SEDIMENT FILTER TUBE

N.T.S.

DETAIL 29 COMPOST FILTER SOCK

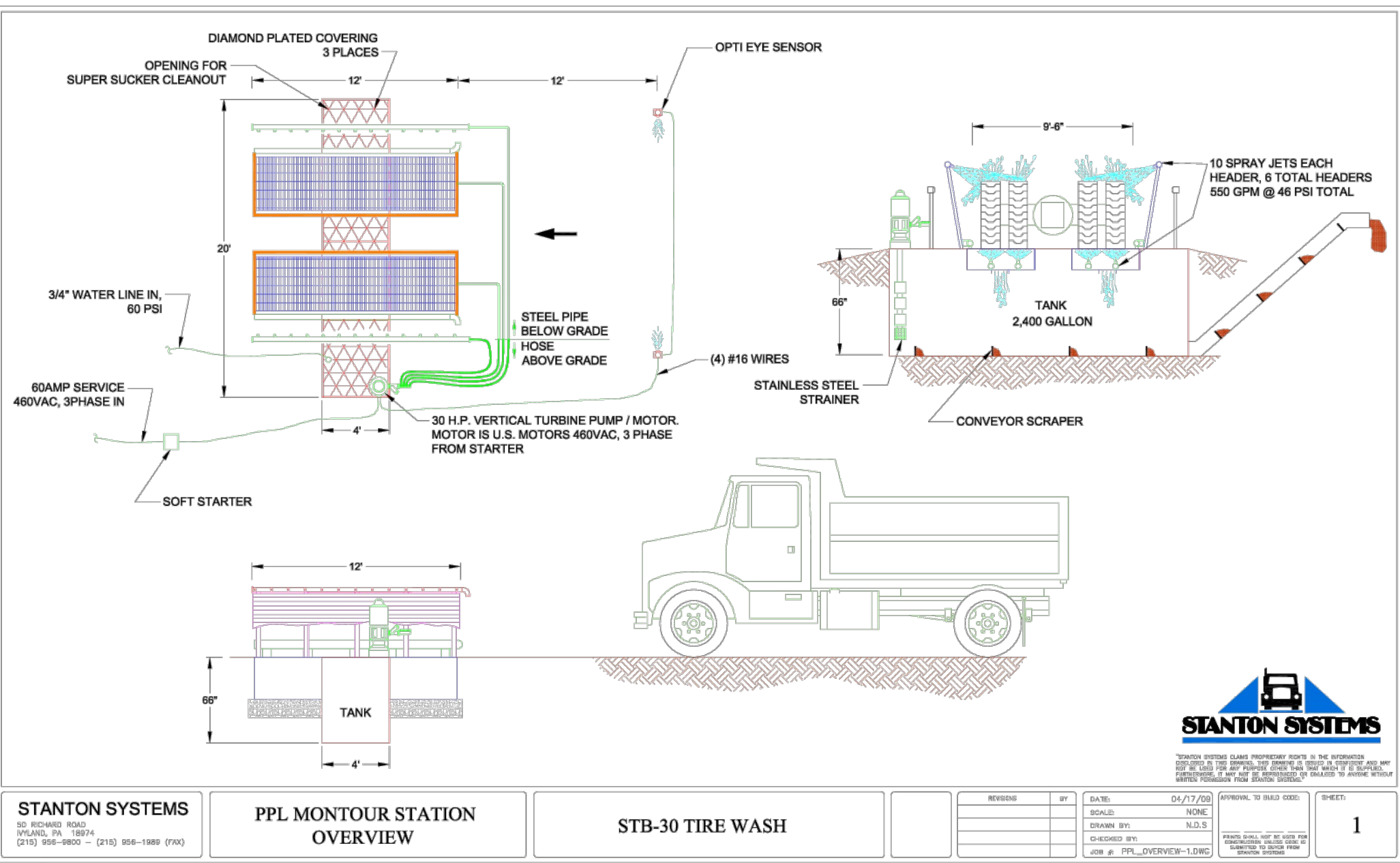
N.T.S.



- NOTES:
- POSTS SHOULD BE DRIVEN INTO THE GROUND TO A DEPTH OF 1/3 OF THE HEIGHT OF THE POST. FOR EXAMPLE A 6 FOOT POST SHOULD BE AT LEAST 2 FEET IN THE GROUND.
 - WOOD STRIPS MAY ALSO BE USED TO PROVIDE ADDITIONAL SUPPORT AND PROTECTION BETWEEN TIES AND POSTS.

DETAIL 30 ORANGE CONSTRUCTION FENCE

N.T.S.



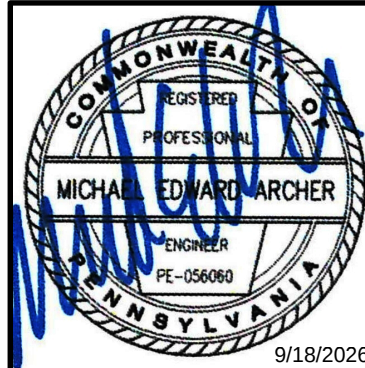
- NOTES:
- TIREWASH SHALL BE STB-30 TIRE WASH OR APPROVED ALTERNATIVE.
 - ALL INGRESS/EGRESS TO/FROM THE SITE MUST BE VIA THE TIRE WASH ENTRANCE.
 - TO MAINTAIN LOW TSS LEVELS AND REDUCE THE NEED FOR CLEANING THAT WOULD REQUIRE CONFINED-SPACE ENTRY, MATERIAL EXTRACTED BY THE CONVEYOR SHALL BE CONTAINED FOR DISPOSAL IN A SUITABLE CONTAINER, SUCH AS A CONCRETE WASHOUT ROLL-OFF OR A DOT-APPROVED DRUM.
 - SEDIMENT AND WASH WATER SHALL BE MANAGED IN ACCORDANCE WITH THE SOIL MANAGEMENT PLAN.

INSPECTION:
1. ENTRANCES SHALL BE INSPECTED DAILY.

MAINTENANCE:
1. MAINTENANCE TO BE PERFORMED IN ACCORDANCE WITH MANUFACTURE SPECIFICATIONS.
2. WATER QUALITY SHALL BE MONITORED USING TOTAL SUSPENDED SOLIDS (TSS). ONCE AN AGREED-UPON TSS THRESHOLD IS REACHED, THE WASH WATER IN THE CLOSED-LOOP SYSTEM WILL BE REPLACED, AND THE SPENT WASH WATER WILL BE MANAGED UNDER THE SOIL MANAGEMENT PLAN.

DETAIL 31 TIRE WASH ENTRANCE

N.T.S.



EROSION AND SEDIMENTATION CONTROL DETAILS

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C902

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CITY OF SHARON
MERCER COUNTY, PA

DATE: APRIL 2025
DRAWN BY: VMF
CHECKED BY: BJH
PROJECT NO: 353-024
APPROVED BY: MEA

BMP MAINTENANCE EROSION NOTES

MAINTENANCE: THE FENCING MUST REMAIN IN PLACE DURING ALL PHASES OF CONSTRUCTION; ANY CHANGE OF THE PROTECTIVE FENCING MUST BE APPROVED BY THE OWNER AND ENGINEER OF RECORD.

- HALT ALL ACTIVITIES AND CONTACT CEC PRIOR TO THE BEGINNING OF THE NEXT STEP IN THE CONSTRUCTION SEQUENCE. THE CONSTRUCTION OF THE UNDERGROUND MRC SYSTEM CONSISTS OF CRITICAL STAGES THAT A LICENSED PROFESSIONAL OR DESIGNEE MUST BE ONSITE FOR INSPECTION. LICENSED PROFESSIONALS MUST BE LICENSED IN THE COMMONWEALTH OF PENNSYLVANIA.

8. UPON ACHIEVING FINAL SUB-GRADE ELEVATION, BEGIN UNDERGROUND MRC 2A AND 2B EXCAVATION/CONSTRUCTION IN ACCORDANCE WITH THE APPROVED DETAILS. ENSURE THAT ALL STORMWATER RUNOFF IS DIRECTED DOWNSTREAM SUCH THAT PONDING OR FLOODING DOES NOT OCCUR.

INSTALLATION OF UNDERGROUND MRCS 2A AND 2B IS A CRITICAL STAGE THAT A LICENSED PROFESSIONAL OR DESIGNER MUST BE ON SITE TO CONSTRUCT. THE CONTRACTOR SHALL PROVIDE A MINIMUM OF 3 BUSINESS DAYS NOTICE PRIOR TO THE INSTALLATION OF UNDERGROUND DETENTION SYSTEM. THE LICENSED PROFESSIONAL OR THEIR DESIGNATED REPRESENTATIVE MUST BE PRESENT DURING SUBGRADE PREPARATION, STONE PLACEMENT, AND UNDERDRAIN INSTALLATION.

- A. STORMTRAP SHALL BE INSTALLED IN ACCORDANCE WITH ASTM C891 (STANDARD PRACTICE FOR INSTALLATION OF UNDERGROUND PRECAST CONCRETE UTILITY STRUCTURES). THE FOLLOWING ADDITIONS AND/OR EXCEPTIONS ARE FOLLOWING ASTM C891 IN ITS ENTIRETY AND IMPLEMENTING APPROPRIATE MEASURES. THE INSTALLING CONTRACTOR OWNS AND IS RESPONSIBLE FOR THE STORMTRAP SYSTEM UPON REMOVAL OF THE MODULES FROM THE DELIVERY TRUCK THROUGH FINAL CONSTRUCTION. FINAL CONSTRUCTION IS ACHIEVED WHEN ALL OF THE MODULES ARE SET FULLY BACKFILLED, AND WHEN FINAL GRADES ARE REACHED, THE CONTRACTOR IS RESPONSIBLE FOR ANY COUNTERMEASURES NECESSARY TO RESIST UPLIFT/BUOYANCY BEFORE FINAL CONSTRUCTION IS ACHIEVED.
- B. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO ENSURE THAT PROPER/ADEQUATE EQUIPMENT IS USED TO SET/INSTALL THE MODULES.
- C. STORMTRAP MODULES SHALL BE PLACED ON A LEVEL CONCRETE FOUNDATION WITH A 1'-0" OVERHANG ON ALL SIDES THAT SHALL BE POURED IN PLACE BY INSTALLING CONTRACTOR. THE GEOTECHNICAL ENGINEER OF RECORD TO ENSURE THAT THE SOIL BEARING PRESSURE MEETS OR EXCEEDS THE STRUCTURAL DESIGN LOADING CRITERIA.
- D. THE STORMTRAP MODULES SHALL BE PLACED SUCH THAT THE MAXIMUM SPACE BETWEEN ADVANCEMENT MODULES DOES NOT EXCEED 3/4". IF THE SPACE EXCEEDS 3/4", THE MODULES SHALL BE RESET WITH APPROPRIATE ADJUSTMENT MADE TO LINE AND GRADE TO BRING THE SPACE TO SPECIFICATION.
- E. THE PERIMETER HORIZONTAL JOINT BETWEEN THE STORMTRAP MODULES AND THE CONCRETE FOUNDATION SHALL BE SEALED TO THE FOUNDATION WITH PRE-FORMED MASTIC JOINT SEALER ACCORDING TO ASTM C891, 8.8, AND 8.12. THE MASTIC JOINT TAPE DOES NOT PROVIDE A WATERTIGHT SEAL.
- F. ALL EXTERIOR ROOF AND EXTERNAL VERTICAL WALL JOINTS BETWEEN ADJACENT STORMTRAP MODULES SHALL BE SEALED WITH 8-IN WIDE PRE-FORMED, COLD APPLIED, SELF ADHERING ELASTOMERIC RESIN, BONDED TO A WOVEN SEALANT AS APPROVED BY STORMTRAP. THE JOINT WRAP DOES NOT PROVIDE A WATERTIGHT SEAL. THE PURPOSE OF THE JOINT WRAP IS PROVIDE SILT AND SOIL TIGHT SYSTEM.
- G. IF THE STORMTRAP MODULE IS DAMAGED IN ANY WAY PRIOR, DURING, OR AFTER INSTALL, STORMTRAP MUST BE CONTACTED IMMEDIATELY TO ASSESS THE DAMAGE AND DETERMINE WHETHER OR NOT THE MODULES WILL NEED, IF REPLACED, IF ANY MODULE ARRIVES AT THE JOBSITE DAMAGED DO NOT UNLOAD IT. CONTACT STORMTRAP IMMEDIATELY. ANY DAMAGE NOT REPORTED BEFORE THE TRUCK IS UNLOADED WILL BE THE CONTRACTOR'S RESPONSIBILITY.
- H. STORMTRAP MODULES CANNOT BE ALTERED IN ANY WAY AFTER MANUFACTURING WITHOUT WRITTEN CONSENT FROM STORMTRAP AND THE ENGINEER OF RECORD.

9. INSTALL THE STORM SYSTEMS UPSTREAM OF THE UNDERGROUND MRCS. INSTALL ALL INLETS, MANHOLES, ACEDIA TO WATER QUALITY UNITS, AND PIPES DOWNSTREAM TO UPSTREAM PER DISTRICT SPECIFICATIONS. COMPOST FILTER SOCKS SHALL BE INSTALLED DURING DRY CONDITIONS, TO FACILITATE STORM SYSTEM INSTALLATION. REMOVED COMPOST FILTER SOCK SHALL BE REPLACED IMMEDIATELY FOLLOWING BACKFILLING OF STORM SEWER EXCAVATIONS. INSTALL INLET FILTER BAGS ON ALL INLETS FOLLOWING INSTALLATION.
10. ONCE CONSTRUCTION IS COMPLETED, REMOVE ANY SEDIMENT THAT MAY HAVE ACCUMULATED IN THE PROPOSED STORM SEWER SYSTEM. STABILIZE THE DISTURBANCE AREAS WITH GRAVEL. INSTALL GEOMEMBRANE LINER BENEATH GRAVEL AREAS IN ACCORDANCE WITH THE PROVIDED DETAILS. REMOVE COMPOST FILTER SOCK BARRIERS 1A-13A AS GRAVEL STABILIZATION PROGRESSES.
11. UPON COMPLETION OF ALL EARTH DISTURBANCE ACTIVITIES AND PERMANENT STABILIZATION OF ALL DISTURBED AREAS, REMOVE ALL REMAINING E&S BMPs.
12. AFTER PROJECT COMPLETION AND FINAL INSPECTION, IT IS REQUIRED TO SUBMIT THE NPDES NOTICE OF TERMINATION TO THE MERCER COUNTY CONSERVATION DISTRICT.

IN ORDER TO ENSURE EFFECTIVE AND EFFICIENT OPERATION OF BMPs, ALL TEMPORARY RUNOFF & EROSION CONTROLS SHALL BE INSPECTED AT LEAST AT THE BEGINNING AND END OF EACH DAY AND AFTER EACH STORMWATER EVENT. ANY DAMAGED CONTROLS SHALL BE REPAIRED OR REPLACED WITHIN 24 HOURS OF THE TIME OF THE DAMAGE. THE EROSION CONTROL SPECIALIST SHALL CONDUCT REGULAR MAINTENANCE AND INSPECTIONS, AND SHALL MAINTAIN RECORDS OF ALL SUCH ACTIVITIES. WRITTEN REPORT DOCUMENTING COMPLETION OF BMP INSPECTION, MAINTENANCE, AND REPAIR OF ACTIVITIES SHALL BE LOGGED WITH PA DEP FORM 3800-FM-BCW02710 AND KEPT ONSITE AT ALL SITES. EROSION CONTROL SPECIALISTS SHALL BE REQUIRED TO OBTAIN A CURRENT EROSION CONTROL SPECIALIST'S LICENSE. THE EROSION CONTROL SPECIALIST SHALL BE EITHER A CERTIFIED PROFESSIONAL EROSION AND SEDIMENT CONTROL (PESC) OR CERTIFIED EROSION, SEDIMENT, AND STORM WATER INSPECTOR (CESSWI).

E&S CONTROLS SHALL BE REPAIRED IN ACCORDANCE WITH THE PROVIDED DETAILS AND AS FOLLOWS.

1. INLET PROTECTION DEVICES AND BARRIERS SHALL BE REPAIRED OR REPLACED IF THEY SHOW SIGNS OF DETERIORATION.
2. THE CONSTRUCTION EXITS SHALL BE REPAIRED TO THEIR ORIGINAL CONDITION TO PREVENT TRACKING OR FLOW OF MUD ONTO PUBLIC RIGHTS-OF-WAY.
3. THE TEMPORARY PARKING AND STORAGE AREAS SHALL BE KEPT IN GOOD CONDITION (SUITABLE FOR PARKING AND STORAGE). THIS MAY REQUIRE PERIODIC TOP DRESSING OF THE TEMPORARY PARKING AREA AS CONDITIONS DEMAND.
4. PRIOR TO LEAVING THE SITE, ALL VEHICLES SHALL BE CLEANED OF DEBRIS, ANY DEBRIS AND/OR SEDIMENT REACHING THE PUBLIC STREET SHALL BE CLEANED IMMEDIATELY BY A METHOD OTHER THAN FLUSHING.
5. ALL SEDIMENT REMOVED FROM EROSION CONTROL DEVICES LOCATED AROUND THE SITE SHALL BE DISPOSED OF AT A PADEP APPROVED FACILITY.

INDIVIDUAL BMP CONSTRUCTION SEQUENCE

1. SEE STEPS 1-7 IN THE EROSION AND SEDIMENTATION CONTROL CONSTRUCTION SEQUENCE FOR PRIOR CONSTRUCTION STEPS.
2. CONTACT CEC PRIOR TO BEGINNING CONSTRUCTION OF UNDERGROUND MRC 2A AND 2B. A LICENSED PROFESSIONAL IN THE COMMONWEALTH OF PENNSYLVANIA MUST BE PRESENT ON SITE TO OBSERVE THE CRITICAL STAGES OF CONSTRUCTION FOR UNDERGROUND MRC 2A AND 2B.
3. EXCAVATE TO THE DIMENSIONS AND ELEVATIONS REQUIRED FOR UNDERGROUND MRC 2A AND 2B. SMOOTH IRREGULARITIES IN THE EXCAVATION AND CLEAR ANY LARGE ROCKS OR DEBRIS FROM THE BOTTOM OF THE BED. MEASURES SHOULD BE TAKEN TO PREVENT WATER AND SEDIMENT FROM ENTERING THE EXCAVATED AREA.
4. INSTALL OUTLET STRUCTURE AND ASSOCIATED STORMWATER CONVEYANCE PIPES AND CATCH BASINS. ANY DAMAGES TO EXISTING PAVEMENT, DRAINAGE STRUCTURES, AND CONVEYANCE PIPES INVOLVED WITH INSTALLING THE OUTLET STRUCTURE SHALL BE REPLACED IN KIND.
5. INSTALL UNDERDRAIN AS SHOWN ON THE PLANS AN IN ACCORDANCE WITH THE STANDARD DETAIL. PLACE SUBSURFACE DRAINAGE GEOTEXTILE ON THE BOTTOM AND SIDES OF THE EXCAVATED AREA SUCH THAT NATIVE SOILS DO NOT MIGRATE INTO THE STONE BEDDING.

CONSTRUCTION/PROJECT WASTE RECYCLING/DISPOSAL

CONSTRUCTION WASTES ARE REFUSE MATERIALS THAT ARE EXISTING ON-SITE OR GENERATED DURING THE COURSE OF CONSTRUCTION AND INCLUDE, BUT ARE NOT LIMITED TO, PAPER, PLASTIC, RUBBER, CONCRETE WASTE WASH, GRASS CLIPPINGS, LEAF LITTER, WOOD, TEXTILE, AND METAL PRODUCTS. REFER TO THE SOIL MANAGEMENT PLAN FOR DETAILS ON HOW TO HANDLE SOILS.

INSTALLATION: THE CONTRACTOR SHALL BE RESPONSIBLE FOR IDENTIFYING WASTE RECYCLING/DISPOSAL AREAS ON THE E&S PLAN ONCE THEY HAVE BEEN DETERMINED. THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING ALL WASTE RECYCLING/DISPOSAL PERMITS PRIOR TO THE COMMENCEMENT OF CONSTRUCTION ACTIVITIES.

MAINTENANCE: ALL CONSTRUCTION WASTE SHALL BE REMOVED BY THE CONTRACTOR AND DISPOSED/RECYCLED OF AT A STATE-APPROVED WASTE SITE AND/OR STATE APPROVED LANDFILL AND IN ACCORDANCE WITH ALL LOCAL/STATE CODES, PERMIT REQUIREMENTS, AND REGULATIONS. THE BURNING OF WASTE MATERIALS WILL NOT BE PERMITTED.

NOTIFICATION REQUIREMENTS

1. A PRE-CONSTRUCTION MEETING WITH THE MERCER COUNTY CONSERVATION DISTRICT AND PADEP IS REQUIRED PRIOR TO COMMENCING CONSTRUCTION ACTIVITIES; A MINIMUM OF 7 DAYS IN ADVANCE OF THE START DATE OF THE PROJECT. IF THE PERMITTEE DOES NOT ATTEND THE PRE-CONSTRUCTION MEETING, IF THE CCD/DEP IS UNABLE TO ATTEND THE SCHEDULED PRE-CONSTRUCTION MEETING, THEN THE PERMITTEE MUST STILL HOLD THE MEETING WITHOUT THE CCD/DEP.
2. UPON THE INSTALLATION OF PERIMETER SEDIMENT CONTROL BEST MANAGEMENT PRACTICES (BMPs) AND BEFORE ANY AT LEAST THREE (3) DAYS PRIOR TO PROCEEDING WITH ANY EARTHWORK ACTIVITIES, THE PERMITTEE SHALL PROVIDE NOTIFICATION TO THE CCD/DEP BY PHONE OR ELECTRONIC MAIL.
3. THE CONTRACTOR SHALL NOTIFY THE OWNER AND ENGINEER A MINIMUM OF THREE (3) DAYS IN ADVANCE OF INSTALLING PROPOSED STORMWATER CONTROL MEASURES (SCMs). INSTALLATION OF EACH STAGE OF THE SCM SYSTEM SHALL BE SUPERVISED BY A LICENSED PROFESSIONAL. A LICENSED PROFESSIONAL MUST COMPLETE THE SCM CONSTRUCTION CERTIFICATION FORM. THE PERMITTEE MUST SUBMIT THE COMPLETED FORM TO THE CCD/DEP WITHIN 30 DAYS OF COMPLETION OF THE SCM CONSTRUCTION.
4. THE PERMITTEE MUST NOTIFY THE CCD/DEP OF ANY PLANNED CHANGE TO EARTH-DISTURBANCE ACTIVITIES, BMPs, SCMs, OR ANY OTHER CHANGE THAT MAY AFFECT THE PERMITTEE'S PERMIT COVERAGE. THE PERMITTEE MUST PROVIDE WRITTEN NOTICE TO NOTIFY THE PERMITTEE WHETHER SUBMISSION OF AN NOI TO AMEND PERMIT COVERAGE IS REQUIRED. THE PERMITTEE MAY NOT PROCEED TO IMPLEMENT THE PROPOSED SCMs UNTIL THE PERMITTEE RECEIVES WRITTEN APPROVAL FOR THE AMENDMENT FROM THE CCD/DEP.
5. THE PERMITTEE MUST PROVIDE IMMEDIATE NOTIFICATION TO DEP FOR ANY INCIDENT CAUSING OR THREATENING POLLUTION (NO LATER THAN FOUR (4) HOURS AFTER BECOMING AWARE OF THE INCIDENT). IN ADDITION, ANY NON-COMPLIANCE WITH THE PERMIT CONDITIONS MUST BE REPORTED TO THE DEP WITHIN THE CCD WITHIN 24 HOURS, AND A WRITTEN REPORT MUST BE PROVIDED WITHIN FIVE (5) DAYS.

REVISION RECORD		DESCRIPTION
NO	DATE	
1		RESPONSE TO ACHUPPMENTS IN THE UNITED STATES
2		RESPONSE TO ACHUPPMENTS IN THE UNITED STATES
3		RESPONSE TO TECHNICAL DEPENDENT LETTER DATED 07/20/2008
4		RESPONSE TO TECHNICAL DEPENDENT LETTER DATED 07/20/2008

PROPOSED ARCHITECTURAL AND LANDSCAPE ARCHITECTURE IN THE STATE OF NORTH CAROLINA WILL BE PROVIDED BY EGC SURVEYING AND LANDSCAPE ARCHITECTS, P.A. ALL SERVICES IN AERVO WOOD WILL BE PROVIDED BY EGC SURVEYING AND LANDSCAPE ARCHITECTS, P.A. ALL ARCHITECTURE SERVICES IN AERVO WOOD WILL BE PROVIDED BY EGC LANDSCAPE ARCHITECTS, LLC.

700 Cherrington Parkway
Moon Township, PA 15108
Ph: 412.429.2324 • 800.365.2324
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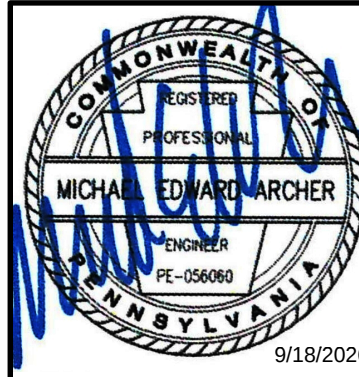


Civil & Environmental
Consultants, Inc.

**MERCER NODE PROPERTY, LLC
MERCER NODE DEVELOPMENT
200 CLARK STREET
CITY OF SHARON
MERCER COUNTY, PA**

EROSION AND SEDIMENTATION CONTROL NOTES		VNF B/H 353-024 MEA
DATE:	APRIL 2026	DRAWN BY:
DWG SCALE:	N.A.	CHECKED BY:
PROJECT NO:		
APPROVED BY:		

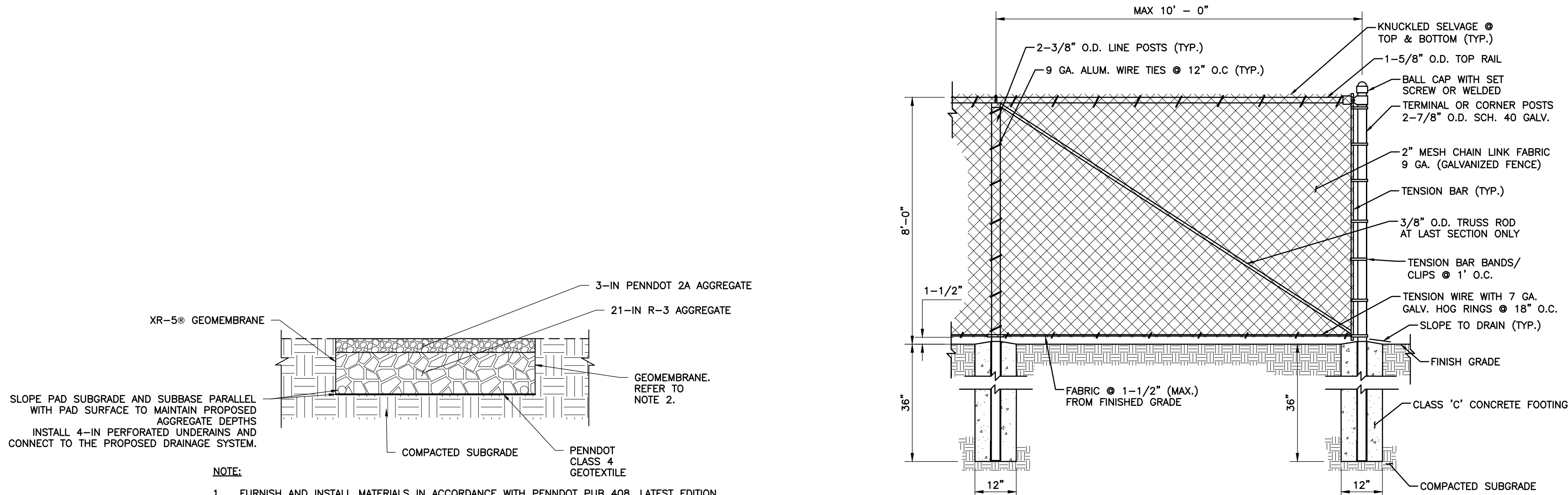
DRAWING NO.:
C903



9/18/202

SHEET 22 OF 25

A:\300-0001\352-0241-C800\Draw\DWG\1333024-C800-Construction Details.dwg[6500] LS(10/12/2026 - enshing) - LP 9/16/2026 10:33 AM



NOTE:

- FURNISH AND INSTALL MATERIALS IN ACCORDANCE WITH PENNDOT PUB 408, LATEST EDITION.
- GRAVEL AREAS LOCATED WITHIN, BENEATH, OR IMMEDIATELY ADJACENT TO IDENTIFIED OR SUSPECTED CONTAMINATION ZONES SHALL BE LINED WITH SEAMAN CORPORATION XR-5® GEOMEMBRANE OR APPROVED EQUAL. GRAVEL AREAS LOCATED OUTSIDE IDENTIFIED CONTAMINATION ZONES MAY BE LINED WITH SEAMAN CORPORATION XR-3® GEOMEMBRANE OR APPROVED EQUAL, SUBJECT TO CONTRACTOR VERIFICATION OF SITE CONDITIONS AND MANUFACTURER CONFIRMATION OF CHEMICAL COMPATIBILITY. CONTRACTOR REMAINS RESPONSIBLE FOR LINER SELECTION, INSTALLATION, AND PERFORMANCE BASED ON MANUFACTURERS SPECIFICATIONS.

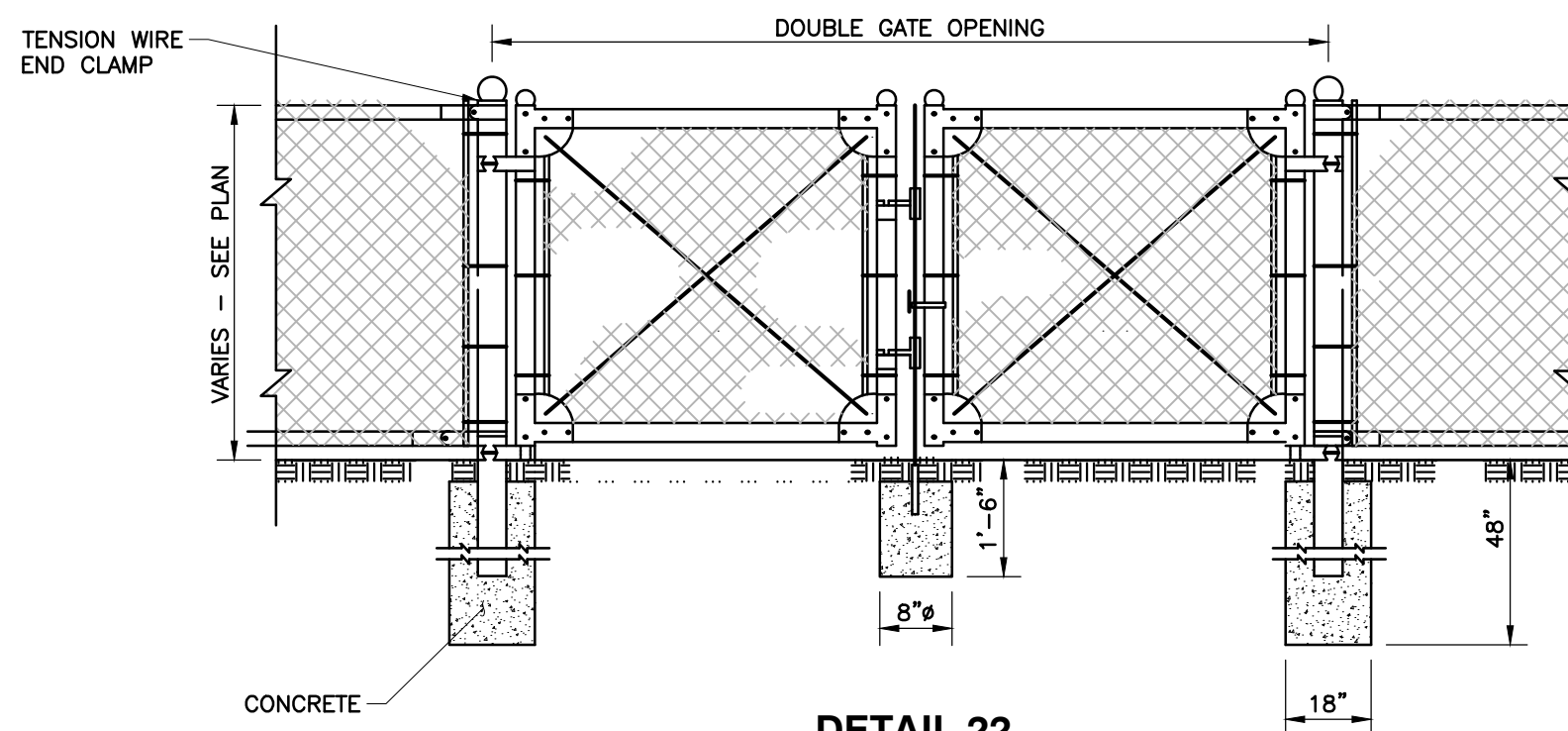
**DETAIL 20
GRAVEL AREA**
N.T.S.

**DETAIL 21
SECURITY FENCE**
N.T.S.

NOTES:

- METRIC DIMENSIONS ARE NOMINAL EQUIVALENTS TO U.S. DIMENSIONS.
- FOOTING WIDTH TO BE (4)X POST WIDTH. MINIMUM DEPTH 36".
- FENCE TO HAVE 4-1/2" TOP RAIL COVER.
- FENCE MATERIAL TO BE COATED COLOR BLACK.
- ALL FENCE COMPONENTS (HANDLES, LATCHES, CONNECTIONS, POTS, FABRIC, ETC.) SHALL BE COATED COLOR BLACK.

END & CORNER POST TOP OPTIONS	TOP & BOTTOM FABRIC OPTIONS



**DETAIL 22
SWING GATE**
N.T.S.

GENERAL NOTES:

- PROVIDE MATERIALS AND PERFORM WORK IN ACCORDANCE WITH THE LATEST EDITION OF THE PENNDOT PUBLICATION 408 SPECIFICATIONS.
- REFER TO PENNDOT BUREAU OF HIGHWAY DESIGN STANDARDS FOR ROADWAY CONSTRUCTION, SERIES RC-45 AND RC-46, CURRENT EDITION, FOR DETAILS OF THE FRAMES AND GRATES, CONCRETE TOP UNITS, GRADE ADJUSTMENT RINGS, AND INLET BOXES.
- CEMENT CONCRETE USED TO CONSTRUCT THE STORM SEWER INLETS SHALL BE CLASS AA, AND SATISFY THE REQUIREMENTS OF PENNDOT PUBLICATION 408, SECTION 704.
- REINFORCEMENT STEEL USED TO CONSTRUCT THE STORM SEWER INLETS SHALL BE ASTM-A615 GRADE 60 DEFORMED OR PLAIN STEEL BARS, AND SATISFY THE REQUIREMENTS OF PENNDOT PUBLICATION 408, SECTION 714, AND HAVE A MINIMUM COMPRESSIVE STRENGTH OF 4,000 PSI.
- PRE-CAST REINFORCED CONCRETE STORM SEWER INLET BOXES, CONCRETE TOP UNITS, AND GRADE ADJUSTMENT RINGS SHALL CONFORM TO THE REQUIREMENTS OF PENNDOT PUBLICATION 408, SECTION 714, AND HAVE A MINIMUM COMPRESSIVE STRENGTH OF 4,000 PSI.
- FRAMES AND GRATES SHALL BE NON-ROCKING AND MADE OF STRUCTURAL STEEL, AND SATISFY THE REQUIREMENTS OF PENNDOT PUBLICATION 408, SECTION 605.2(c). ALL CASTINGS SHALL BE SET IN A FULL BED OF MORTAR.
- GRADE ADJUSTMENT RINGS SHALL BE OF PRECAST CONCRETE OR STRUCTURAL STEEL.
- ALL INLETS SHALL BE SIZED TO ACCOMMODATE THE REQUIRED PIPE SIZE. SEAL PIPE CONNECTIONS WITH MORTAR OR WATER TIGHT RUBBER FLEXIBLE CONNECTORS.
- BACKFILL PLACED AROUND THE STORM SEWER INLETS SHALL BE ASHTO NO. 57 CRUSHED LIMESTONE AGGREGATE MEETING THE REQUIREMENTS OF PENNDOT PUBLICATION 408, SECTION 703. THE AGGREGATE SHALL BE PLACED IN MAXIMUM 8" THICK LOOSE LIFTS AND COMPACTED TO A POINT OF NON-MOVEMENT BENEATH THE COMPACTION EQUIPMENT.
- BASE STONE UNDER INLETS SHALL BE 12" DEEP COMPACTED ASHTO NO. 57 CRUSHED STONE.
- INLET TOP UNITS SHALL BE PENNDOT TYPE M OR TYPE C (SEE PLANS) WITH STRUCTURAL STEEL BICYCLE SAFE GRATES.
- STEPS SHALL BE INSTALLED ON INLETS DEEPER THAN 4' IN ACCORDANCE WITH "PLASTIC MANHOLE/INLET STEP" DETAIL, THIS SHEET.

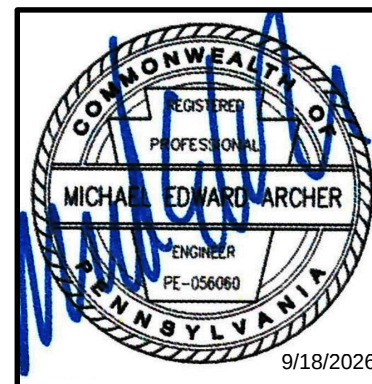
NOTES:

- FOR ADDITIONAL NOTES, REFER TO PENNDOT PUBLICATION 72M, RC-46M FOR DETAILS FOR THE CONCRETE TOP UNITS, FRAMES, AND GRATES.
- OUT TO OUT DIMENSIONS OF TOP SLABS TO MATCH SIZE OF INLET BOX.
- SET EDGE OF OPENING AT INSIDE FACE OF INLET BOX FOR ACCESS, IF POSSIBLE.

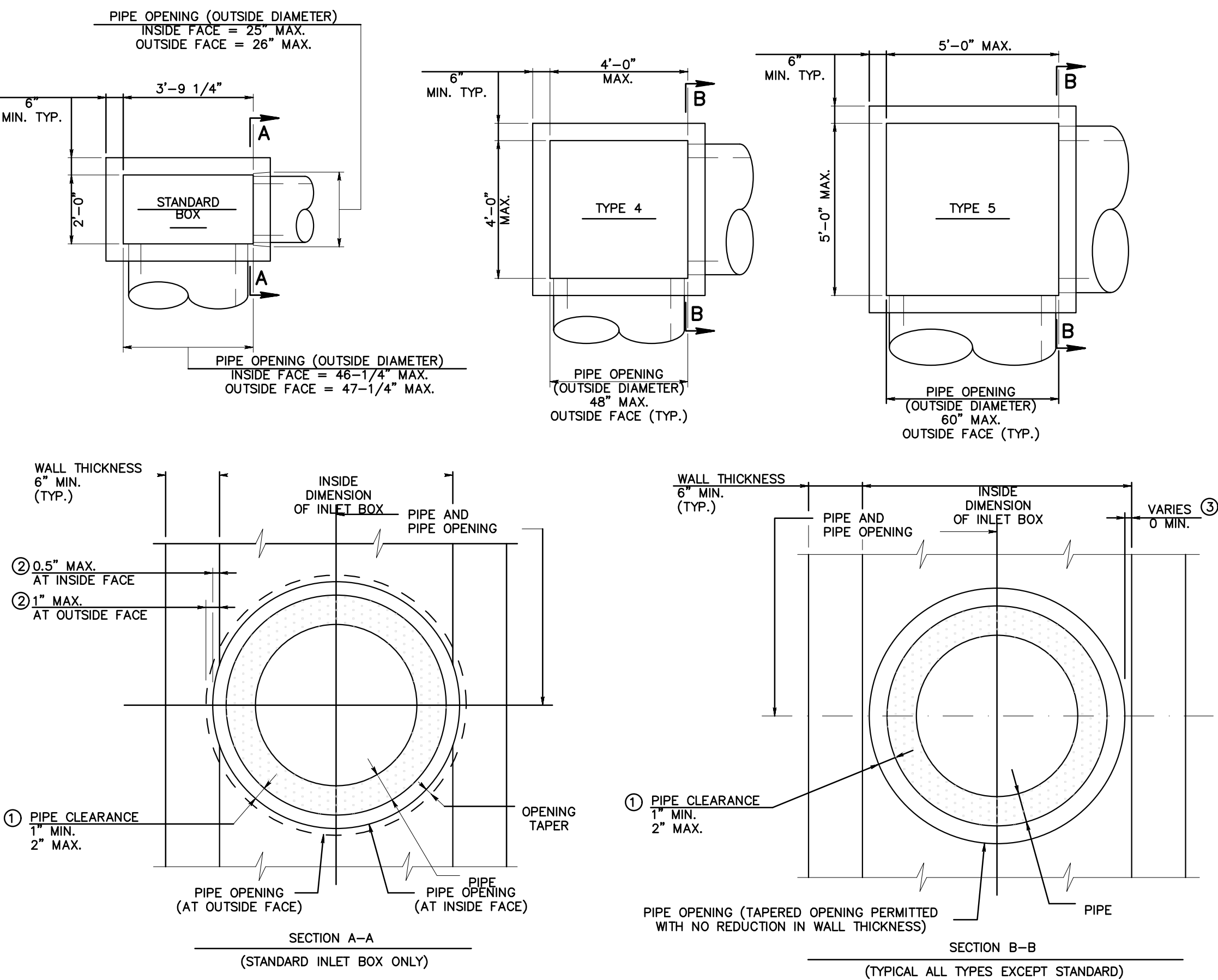
INLET WITH SUMP NOTES:

- SMALL WEEP HOLES SHOULD BE DRILLED INTO THE BOTTOM OF THE INLET TO PREVENT STANDING WATER FOR LONG PERIODS OF TIME.

INLET TABLE						
STRUCTURE NAME	RIM E.	INVERT IN	INVERT OUT	BOTTOM ELEV.	INLET TYPE	GRATE TYPE
IN-2-202	869.21	863.82	863.82	863.82	TYPE 4 INLET BOX	TYPE M
IN-2-203	868.25	864.03	864.03	864.03	TYPE 4 INLET BOX	TYPE M
IN-3A-311	871.38	865.47	865.47	865.47	STANDARD INLET BOX	TYPE M
IN-3A-312	871.32	865.88	865.88	865.88	STANDARD INLET BOX	TYPE M
IN-3A-313	871.28		866.29	866.04	STANDARD INLET BOX	TYPE M

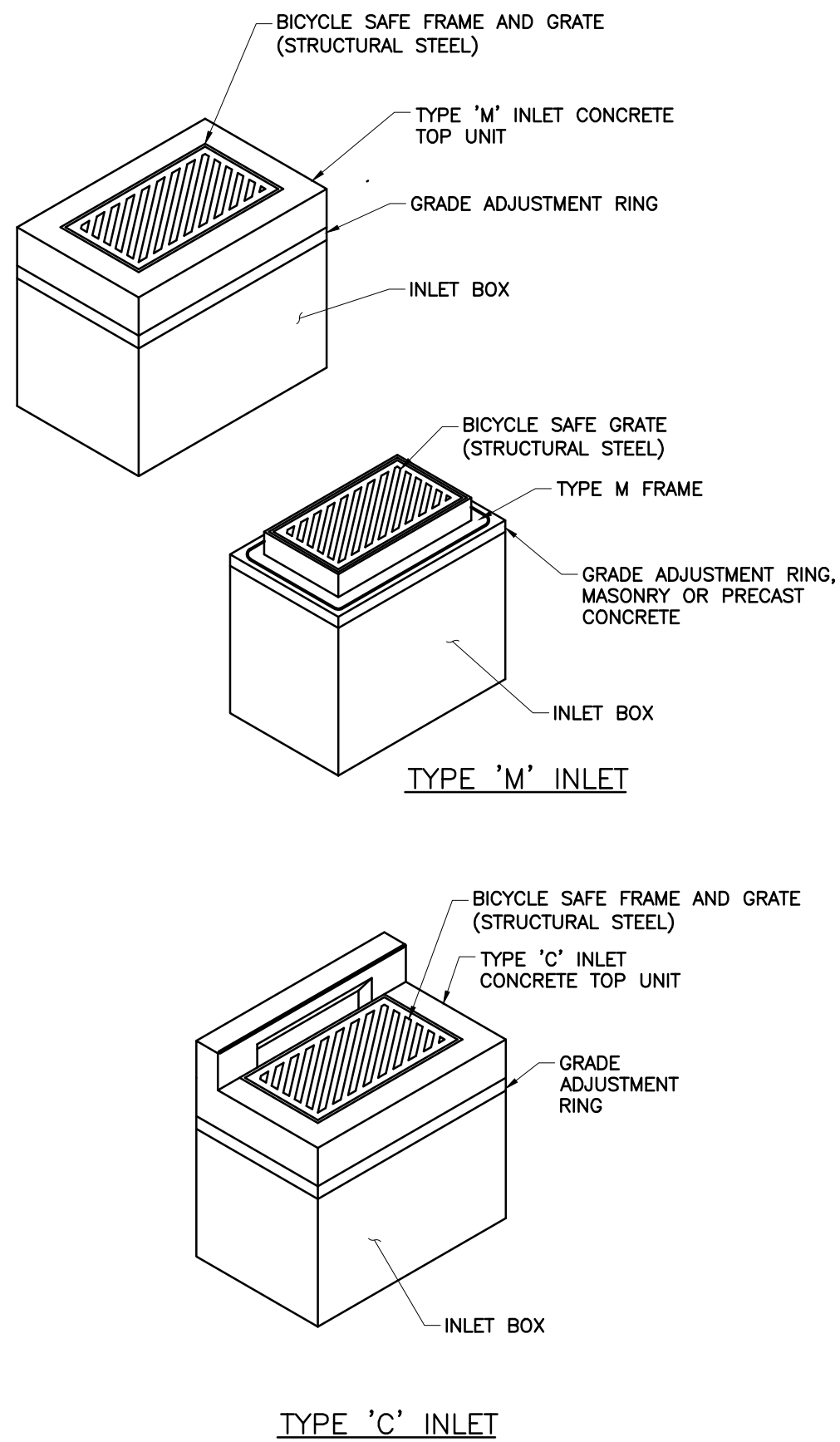


9/18/2026



LEGEND

- OUTSIDE DIAMETER OF PIPE TO PIPE OPENING
- REDUCTION IN WALL THICKNESS DIMENSION
- INSIDE FACE OF BOX WALL TO OUTSIDE DIAMETER OF PIPE OPENING



REVISION RECORD

NO.	DATE	DESCRIPTION
1	09/18/2026	RESPONSE TO INCOMPLETENESS LETTER DATED 06/04/2026
2	09/18/2026	RESPONSE TO TECHNICAL DEFICIENCY LETTER DATED 07/16/2026
3	09/18/2026	RESPONSE TO TECHNICAL DEFICIENCY LETTER DATED 09/16/2026

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CEC
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**MERCER NODE PROPERTY, LLC
MERCER NODE DEVELOPMENT
200 CLARK STREET
CITY OF SHARON
MERCER COUNTY, PA**

CONSTRUCTION DETAILS

DATE:	APRIL 2025	DRAWN BY:	VMF
DWG SCALE:		CHECKED BY:	BJH
PROJECT NO:			353-024
APPROVED BY:			MEA

DRAWING NO.:

C800

SHEET 18 OF 22