GENERAL NOTES SPARTANBURG COUNTY SHOOL DISTRICT TWO 1084 SPRINGFIFI D ROAD BOILING SPRINGS, S.C. 29316 PROJECT ADDRESS: 1084 SPRINGFIELD ROAD, BOILING SPRINGS, SC 29316 LANCE RADFORD - SUPERINTENDENT CONTACT PERSON: 864-578-0128 LANCE.RADFORD@SPART2.ORG TAX MAP NO.: 2-35-00-040.00 SURVEY WORK BY GOOCH & ASSOCIATES, P.A. - SURVEYORS P.O. BOX 587 SPARTANBURG, S.C. 29304 864-582-1709 TOTAL PARCEL ACREAGE IS: 31.7± ACRES. DISTURBED ACREAGE: 0.5 ACRES (INCLUDING WORK PERFORMED WITHIN RW) THIS PROPERTY DOES NOT LIE WITHIN A FLOOD PLAIN - 45083C0144D DATED 01-06-2011 THIS PROJECT DESIGN IS BASED UPON SURVEY INFORMATION PROVIDED BY OTHERS. McCUTCHEN ENGINEERING ASSOCIATES, PC (MCEA) ASSUMES NO RESPONSIBILITY FOR THE THE CONTRACTOR SHALL VISIT THE SITE AND FAMILIARIZE THEMSELVES WITH THE EXISTING CONDITIONS BEFORE SUBMITTING HIS BID/PRICE. REFER TO SURVEY AND ALL DISTANCES AND DATA SHALL BE CHECKED BY THE CONTRACTOR PRIOR TO THE START OF CONSTRUCTION, IN CASE OF CONFLICT, THE ENGINEER SHALL BE NOTIFIED IMMEDIATELY SO THAT CLARIFICATIONS MAY BE MADE PRIOR TO THE START OF WORK, ALL CONDITIONS NOTED FOR FIELD VERIFICATION SHALL BE DONE PRIOR TO COMMENCING THE CONTRACTOR SHALL SUPPLY AND ESTABLISH SURVEY CONTROL, INCLUDING THE HORIZONTAL AND VERTICAL CONTROL POINTS. THE CONTRACTOR SHALL MAINTAIN THIS CONTROL AND PROVIDE ALL BENCHMARKS, STAKES, GRADES, LEVELS, AND LINES NECESSARY FOR CONSTRUCTION, CONTRACTOR(S) SHALL PROVIDE ADEQUATE SUPERVISION T PREVENT DAMAGE AND MOVEMENT FROM EQUIPMENT WORKING AROUND CONSTRUCTION STAKES. THESE CONSTRUCTION STAKES SHALL REMAIN IN PLACE & BE PROTECTED. LINTIL OWNER APPROVES THEIR REMOVAL ANY STAKES OR PROPERTY CORNERS THAT HAVE BEEN DISPLACED AS A RESULT OF CONSTRUCTION ACTIVITY ARE TO BE REPLACED BY A LICENSED LAND SURVEYOR ENGAGED BY THE CONTRACTOR AT NO COST TO THE OWNER. ALL EXISTING IMPROVEMENTS DAMAGED AS A RESULT OF CONSTRUCTION OPERATIONS SHALL BE RESTORED TO THEIR ORIGINAL CONDITION TO THE SATISFACTION OF THE OWNER. CONTRACTOR IS RESPONSIBLE TO DOCUMENT ALL EXISTING DAMAGE AND NOTIFY CONSTRUCTION MANAGER PRIOR TO CONSTRUCTION START. ALL EXISTING PAVEMENT AND CONCRETE TO BE JOINED SHALL BE SAWCUT. BURNING ON OR NEAR THE JOB SITE WILL NOT BE PERMITTED. CITY/COUNTY PLANNING AND ENGINEERING DEPARTMENTS TO BE GIVEN 48 HOURS NOTICE PRIOR TO START OF CONSTRUCTION. COORDINATE PRE-CONSTRUCTION MEETING WITH CITY/COUNTY, ENGINEER AND OWNER. COORDINATE ALL CURB AND STREET GRADES IN INTERSECTIONS WITH THE CITY/COUNTY INSPECTOR. THE CONTRACTOR SHALL MAINTAIN EACH STREAM, CREEK, OR BACKWASH CHANNEL IN AN UNOBSTRUCTED STATE DURING CONSTRUCTION. REMOVE ALL DEBRIS, LOGS, TIMBER, ETC. THAT MAY ACCUMULATE IN CHANNEL. (IF APPLICABLE). ALL ROAD IMPROVEMENTS/ENCROACHMENTS TO BE COORDINATED WITH SCOOT AND/OR THE CITY/COLINTY ENGINEERING DEPARTMENT PRIOR TO CONSTRUCTION DRIVEWAYS TO BE CONSTRUCTED TO STATE AND LOCAL CODES. CONTRACTOR SHALL OBTAIN REQUIRED PERMITS (PAY ALL APPLICABLE FEES) AND MATCH PROPOSED CURB AND GUTTER, CONCRETE AND PAVEMENT TO EXISTING GRADE AND ALIGNMENT THE CITY/COUNTY ENGINEERING DEPARTMENT HAS NOT REVIEWED THE STRUCTURAL STABILITY OF ANY RETAINING WALLS ON THE SITE AND DOES NOT ASSUME RESPONSIBILITY FOR THEM (UNLESS NOTED OTHERWISE ON PLANS). THE CONTRACTOR SHALL PROVIDE DESIGN DRAWINGS FOR ALL RETAINING WALLS, PREPARED, SIGNED, AND SEALED BY A HIRD PARTY PROFESSIONAL ENGINEER FOR REVIEW AND APPROVAL NON-STANDARD ITEMS (IE: PAVERS, IRRIGATION SYSTEMS, ETC.) IN ANY RIGHT OF WAY REQUIRE AN ENCROACHMENT AGREEMENT WITH THE COUNTY/CITY ENGINEERING DEPARTMENT AND/OR SCDOT BEFORE INSTALLATION. THE ENGINEER WILL NOT BE CONTINUOUSLY PRESENT IN THE FIELD. IT IS SPECIFICALLY UNDERSTOOD THAT HE DOES NOT UNDERTAKE OR ASSUME ANY OBLIGATION FOR SUPERVISION OF CONSTRUCTION, SAFETY MEASURES TAKEN DURING THE COURSE OF CONSTRUCTION, RESPONSIBILITY FOR SCHEDULING THE WORK FOR INSURING COMPLETE COMPLIANCE WITH THE CONTRACT DOCUMENTS, AND/OR ALL CODE REQUIREMENTS, RULES, AND REGULATIONS OF ANY PUBLIC OR PRIVATE AUTHORITY HAVING JURISDICTION OVER THE WHOLE, OR ANY PART OF THE WORK. IN ADDITION, THE ENGINEER NEITHER UNDERTAKES, ASSUMES, NOR GUARANTEES THE WORK AND/OR PERFORMANCE OF THE ALL CONSTRUCTION SHALL COMPLY WITH ALL GOVERNING CODES (LOCAL, STATE AND FEDERAL) AND BE CONSTRUCTED IN ACCORDANCE WITH THE SAME. DIMENSIONS SHOWN ARE TO BOTTOM FACE OF CURB. FACE OF BUILDING OR CENTERLINE OF PARKING BAY STRIPE UNLESS NOTED OTHERWISE THE LOCATIONS OF ALL EXISTING UTILITIES SHOWN HAVE BEEN DETERMINED FROM THE BEST INFORMATION AVAILABLE AND ARE GIVEN FOR THE CONVENIENCE OF THE CONTRACTOR. THE ENGINEER ASSUMES NO RESPONSIBILITY FOR THEIR ACCURACY, PRIOR TO THE START OF ANY DEMOLITION ACTIVITY, THE CONTRACTOR SHALL NOTIFY THE UTILITY COMPANIES FOR ONSITE LOCATIONS OF EXISTING UTILITIES. ALL EXISTING SEWERS, PIPING AND UTILITIES SHOWN ARE NOT TO BE INTERPRETED AS THE EXACT LOCATION, OR AS THE ONLY OBSTACLES THAT MAY OCCUR ON THE SITE. VERIFY EXISTING CONDITIONS AND PROCEED WITH CAUTION AROUND ANY ANTICIPATED FEATURES. GIVE NOTICE TO ALL UTILITY COMPANIES REGARDING DEMOLITION AND REMOVAL OF ALL SERVICE LINES AND CAP ALL LINES BEFORE PROCEEDING WITH THE WORK. UTILITIES TO BE ABANDONED AND LEFT IN PLACE AS ALLOWABLE BY THE ENGINEER SEE ARCHITECTURAL AND MECHANICAL DRAWINGS FOR EXACT LOCATION AND SIZE OF WATER, SEWER, ELECTRICAL, GAS, TELEPHONE/FIBER SERVICES, AND ROOF DRAIN DOWNSPOUTS. ROOF DRAIN DOWNSPOUTS SHALL BE CONNECTED TO THE NEARBY STORM DRAINAGE SYSTEM. SEE ARCHITECTURAL PLAN FOR BUILDING DIMENSIONS, FEATURES, STAIRS AND HANDRAILS, ETC. HANDICAP ACCESSIBILITY REGULATIONS: A HANDICAP PARKING SPACE SHALL HAVE NO GREATER SLOPE THAN 1/4" PER FOOT ACROSS THE SPACE. ALL HANDICAP SPACES SHALL BE MARKED WITH A SIG B. HANDRAILS ARE TO BE PROVIDED ON HANDICAP RAMPS WITH A RISE GREATER THAN 6 INCHES AND A HORIZONTAL PROJECTION GREATER THAN 72 INCHES. HANDRAILS AF NOT REQUIRED ON CURB RAMPS. C. ALL HANDICAP SPACES WILL BE MARKED WITH A FREESTANDING OR WALL MOUNTED SIGN. THE HANDICAP SIGN SHALL BE 7'-0" IN HEIGHT FROM THE BOTTOM OF THE SIGN OR ABOVE THE DRIVING SURFACE, OR 5'-0" WHERE THE SIGNS ARE LOCATED BETWEEN THE BACK OF SIDEWALK AND BUILDING. THE NEW GRADES AS SHOWN ARE THE FINISH GRADES UNLESS OTHERWISE SHOWN. THE CONTRACTOR SHALL RESET ALL MANHOLE COVERS, CATCH BASIN GRATES AND ANY OTHER UTILITY ACCESS COVERS TO FINISH PAVEMENT SURFACE OR SIDEWALK GRADE ALL EXISTING DRIVEWAYS AND CURB CUTS THAT ARE NOT USED SHALL BE REMOVED AND REPLACED WITH A MATCHING CONCRETE CURB AND GUTTER AND/OR SIDEWALK (IF EXISTING), PROTECT UNDERGROUND UTILITIES AND THEIR APPURTENANCES TO REMAIN ON SITE FROM DAMAGE DURING CONSTRUCTION OPERATIONS. PROTECT UNDERGROUND UTILITIES AND THEIR APPURTENANCES TO REMAIN ON SITE FROM DAMAGE DURING CONSTRUCTION OPERATIONS. UPON COMPLETION OF THE WORK, THE CONTRACTOR SHALL CLEAN THE ENTIRE SITE OF ALL CONSTRUCTION RELATED MATERIAL OR DEBRIS TO THE OWNER'S SATISFACTION. CONTRACTOR IS RESPONSIBLE FOR PROVIDING AN ONSITE DUMPSTER OR DEBRIS ENCLOSURE DURING CONSTRUCTION TO MAINTAIN A CLEAN CONSTRUCTION SITE AND CONCRETE WASHOUT AREA. TREE SAVE NOTES: A. TEMPORARY TREE SAVE FENCING INSTALLED UNDER THE ROUGH GRADING CONTRACT (IF APPLICABLE) SHALL BE MAINTAINED UNTIL THE CITY/COUNTY ALLOWS REMOV REMOVAL OF THIS FENCING SHALL BE INCLUDED HEREIN B. THE SITE WORK CONTRACTOR(S) SHALL BE FAMILIAR WITH AND OBSERVE THE APPLICABLE REQUIREMENTS. ANY QUESTION SHOULD BE DIRECTED TO THE PROJECT CI ENGINEERING REPRESENTATIVE. C. PRIOR TO GRADING, THE ZONING/LAND USE ENFORCEMENT OFFICER WILL BE CONTACTED TO ENSURE TREES MARKED FOR RETENTION IN THE LANDSCAPE PLAN ARE PROPERLY IDENTIFIED AND FENCED OFF. ALL LANDSCAPE AREAS WILL BE DELINEATED BY CURBING UNLESS NOTED OTHERWISE. REFER TO LANDSCAPING PLAN FOR FURTHER DETAILS. ASPHALT PAVING SHALL BE CONSTRUCTED IN ACCORDANCE WITH THE DETAILS AND THE SCDOT STANDARD SPECIFICATION FOR HIGHWAY CONSTRUCTION. CONTRACTOR SHALL PROVIDE ALL REQUIRED STRIPING AND SIGNAGE FOR WORK IN SCDOT RIGHT OF WAY. ALL SITE WORK RELATED TO CAST-IN-PLACE CONCRETE SHALL BE 4,000 PSI COMPRESSIVE STRENGTH AT 28 DAYS (UNLESS NOTED OTHERWISE). REFER TO ELECTRICAL SITE PLAN FOR SITE LIGHTING LOCATIONS, SLEEVES, AND BASE/POLE/FIXTURE DETAILS. SITE LIGHTING PLAN SHALL BE PROVIDED BY OWNER. CONTRACTOR IS RESPONSIBLE FOR PERFORMING ALL WORK IN ACCORDANCE WITH OSHA STANDARDS. CONTRACTOR IS RESPONSIBLE FOR PERFORMING ALL WORK WITHIN THE SCDOT AND/OR COUNTY R/W PER MUTCD SAFETY STANDARDS. CONTRACTOR SHALL PROVIDE KNOX PAD LOCKS AT ALL GATES AS A PART OF THE BASE BID. CGP IS CONSIDERED A PART OF THESE DRAWINGS AS AN APPENDIX, CONTRACTOR IS RESPONSIBLE FOR DOWNLOADING A COPY FROM SCDHEC WEBSITE AND KEEP ONSITE DURING CONSTRUCTION. THE STORM WATER POLLUTION PREVENTION PLAN (SWPPP) IS CONSIDERED A PART OF THESE DRAWINGS AND PLANS. THE CONTRACTOR AND ITS SUB-CONTRACTORS ARE RESPONSIBLE FOR READING AND BEING FAMILIAR WITH THE REQUIREMENTS AND RECOMMENDATIONS DETAILED IN THIS REPORT. A COPY OF THIS REPORT SHALL REMAIN ONSITE DURING CONSTRUCTION.

CONTRACTOR NOTES

THE DEBRIS FROM SPREADING OR LEAVING THE SITE.

GRADING ACTIVITIES INDICATED ON THIS PLAN.

OTHER DISCIPLINE DRAWINGS FOR LOCATIONS.

BW = BOTTOM OF WALL (AT GRADE

PROTECTION, CHECK DAMS, ETC

after work has ceased, except as stated below

portion of the Site.

pavement, as may be required.

measures must be initiated as soon as practicable

sediments before being pumped back into any waters of the State.

onstruction. Temporary berms may be needed until the slope is brought to grade

■ Where stabilization by the 14th day is precluded by snow cover or frozen ground conditions stabilization

Where construction activity on a portion of the Site is temporarily ceased, and earth-disturbing activities

will be resumed within 14 days, temporary stabilization measures do not have to be initiated on that

approval of an individual plan in accordance with S.C Reg. 72-300 et seq. and SCR100000.

water must be prevented from becoming a pollutant source in storm water discharges

commencement of construction activities to the date that final stabilization is reached.

3. Minimize soil compaction and, unless infeasible, preserve topsoil.

provides equivalent or better treatment prior to discharge:

implemented as soon as reasonably possible.

SPARTANBURG COUNTY ENGINEERING (RICHIE SMITH)

SCDOT (UTILITY ENCROACHMENTS) (SAM HAMAM)

SCDOT (DRIVEWAY ENCROACHMENTS) (BRANDON WILSON)

SPARTANBURG COUNTY LAND DEVELOPMENT (LAURIE OAKMAN) 864-596-3471

construction site.

EACH UTILITY PROVIDER.

UPON SATISFACTION OF SITE ENGINEER INSPECTION, THE SITE ENGINEER SHALL FILE THE NOTICE OF TERMINATION, WHICH SHALL CLOSE THE NPDES PERMIT.

CONTRACTOR SHALL LOCATE PORTABLE RESTROOM FACILITIES IN SUCH A MANNER SO AS TO PREVENT ANY LEAKAGE OR DISCHARGE INTO SURROUNDING WATER BODIES AND/OR DRAINAGE STRUCTURES.

CONTRACTOR SHALL PROVIDE CONCRETE TRUCK WASHOUT FACILITIES AS DESCRIBED IN THE EROSION CONTROL DETAILS

TO ROAM THE SITE UN-SUPERVISED. TEMPORARY GATES AND FENCING MAY BE REQUIRED TO ADEQUATELY PROVIDE THIS.

NOTE: MSE/SEGMENTAL RETAINING WALLS TYPICALLY REQUIRE BLOCK/STONE BELOW GRADE. THIS SHALL BE INCLUDED IN BASE BID WALL QUANTITIES.

MANUFACTURER'S INSTALLATION INSTRUCTIONS AND APPLICATION RATES. PROPER PREPARATION OF THE SOIL SHALL BE PERFORMED PRIOR TO INSTALLATION

COORDINATE WITH OTHER DESIGN DISCIPLINES FOR INSTALLATION OF REQUIRED CONDUIT TO PROVIDE UTILITY SERVICES AND CONSTRUCTION PHASING

ROOF DRAINS CONNECT VIA UNDERGROUND PIPING TO THE CLOSEST CATCH BASIN AND/OR DIRECTLY TO THE STORM WATER MANAGEMENT POND.

INLET PROTECTION SHALL BE PROVIDED AT EACH INSTALLED INLET DURING CONSTRUCTION. CONTRACTOR IS RESPONSIBLE FOR CONTINUING MAINTENANCE.

SPARTANBURG COUNTY STANDARDS NOTES

1. If necessary, slopes, which exceed eight (8) vertical feet should be stabilized with synthetic or vegetative mats, in addition to hydroseeding. It may be necessary to install temporary slope drains during

. Stabilization measures shall be initiated as soon as practicable in portions of the site where construction activities have temporarily or permanently ceased, but in no case more than fourteen (14) days

. All sediment and erosion control devices shall be inspected once every calendar week. If periodic inspection or other information indicates that a BMP has been inappropriately, or incorrectly

4. Provide silt fence and/or other control devices, as may be required, to control soil erosion during utility construction. All disturbed areas shall be cleaned, graded, and stabilized with grassing

immediately after the utility installation. Fill, cover, and temporary seeding at the end of each day are recommended. If water is encountered while trenching, the water should be filtered to remove any

5. All erosion control devices shall be properly maintained during all phases of construction until the completion of all construction activities and all disturbed areas have been stabilized. Additional control

devices may be required during construction in order to control erosion and/or offsite sedimentation. All temporary control devices shall be removed once construction is complete and the site is stabilized.

. The contractor must take necessary action to minimize the tracking of mud onto paved roadway(s) from construction areas and the generation of dust. The contractor shall daily remove mud/soil from

Residential subdivisions require erosion control features for infrastructure as well as for individual lot construction. Individual property owners shall follow these plans during construction or obtain

8. Temporary diversion berms and/or ditches will be provided as needed during construction to protect work areas from upslope runoff and/or to divert sediment-laden water to appropriate traps or stable

10. Litter, construction debris, oils, fuels, and building products with significant potential for impact (such as stockpiles of freshly treated lumber) and construction chemicals that could be exposed to storm

2. Initiate stabilization measures on any exposed steep slope (3H:1V or greater) where land-disturbing activities have permanently or temporarily ceased, and will not resume for a period of 7 calendar

4. Minimize the discharge of pollutants from equipment and vehicle washing, wheel wash water, and other wash waters. Wash waters must be treated in a sediment basin or alternative control that

17. After construction activities begin, inspections must be conducted at a minimum of at least once every calendar week and must be conducted until final stabilization is reached on all areas of the

18. If existing BMPs need to be modified or if additional BMPs are necessary to comply with the requirements of this permit and/or SC's Water Quality Standards, implementation must be completed before the next storm event whenever practicable. If implementation before the next storm event is impracticable, the situation must be documented in the SWPPP and alternative BMPs must be

19. A Pre-Construction Conference must be held for each construction site with an approved On-Site SWPPP prior to the implementation of construction activities. For non-linear projects that disturb 10

21. A pre-construction conference must be held with Spartanburg County at least 48 hours prior to beginning any land disturbing activities. The owner, design engineer and contractor must be present

and have obtained the stormwater permit, stamped approved plans and the N.O.I approval letter from SCDHEC before calling Spartanburg County at 864-595-5320 to schedule this meeting.

15. Minimize the discharge of pollutants from dewatering of trenches and excavated areas. These discharges are to be routed through appropriate BMPs (sediment basin, filter bag, etc.).

9. All waters of the State (WoS), including wetlands, are to be flagged or otherwise clearly marked in the field. A double row of silt fence is to be installed in all areas where a 50-foot buffer can't be

1. A copy of the SWPPP, inspection records, and rainfall data must be retained at the construction site or a nearby location easily accessible during normal business hours, from the date of

ESTABLISH MATERIAL. COORDINATE WITH GENERAL CONTRACTOR TO DETERMINE LANDSCAPE SCOPE OF WORK.

INDUSTRY STANDARD METHODS OF EXCAVATING THE APPROPRIATE HOLE AND INSTALLING THE PLANT MATERIAL

constructed, the Permittee must address the necessary replacement or modification required to correct the BMP within 48 hours of identification.

maintained between the disturbed area and all WoS. A 10-foot buffer should be maintained between the last row of silt fence and all WoS.

6. The following discharges from sites are prohibited: Wastewater from washout of concrete, unless managed by an appropriate control;

Fuels, oils, or other pollutants used in vehicle and equipment operation and maintenance; and Soaps or solvents used in vehicle and equipment washing.

20. Contractors are required to have rain gauges at the construction site and the rain totals documented for review by Spartanburg County and SCDHEC.

PERMIT CONTACT INFORMATION

864-587-4725

Wastewater from washout and cleanout of stucco, paint, form release oils, curing compounds and other construction materials;

acres or more this conference must be held on-site unless Spartanburg County has approved otherwise.

DRIVEWAY AND ROAD PAVEMENT MARKINGS SHALL BE THERMOPLASTIC. DIMENSIONS SHALL CONFORM TO SCDOT STANDARD DRAWINGS.

SITE DESIGN IS BASED UPON A FIELD SURVEY WITH A LOCAL HORIZONTAL AND VERTICAL DATUM AS INDICATED ON THE SURVEY

BASE BID. PROPER SAFETY SIGNAGE SHALL BE INSTALLED INDICATING THE WALL. - IF APPLICABLE

BASE BID OF MSE/SEGMENTAL RETAINING WALL SHALL INCLUDE BLOCK AND STONE UNDERNEATH GRADE.

EXISTING LANDSCAPING SHALL BE PROTECTED DURING ALL PHASES OF CONSTRUCTION.

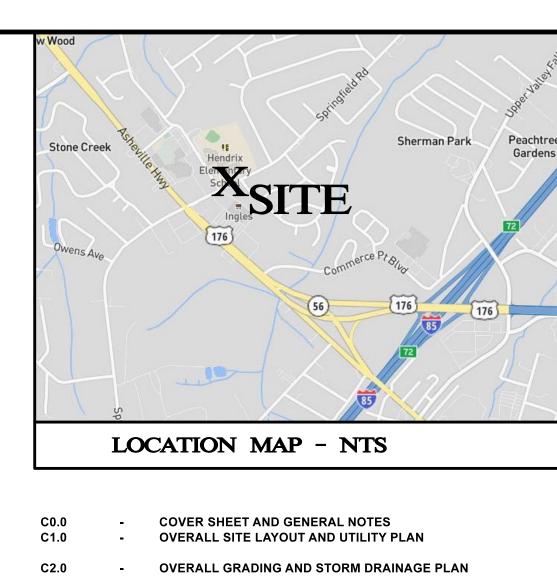
CONTRACTOR SHALL COORDINATE WITH ARCHITECTURAL PLANS FOR BUILDING LAYOUT.

CONTRACTOR SHALL PROVIDE A DESIGNATED LOCATION AND MEANS OF ENCLOSING AND/OR CONTAINING ALL CONSTRUCTION RELATED DEBRIS PRIOR TO THEIR LAWFUL DISPOSAL. THIS CONTAINMENT SHALL PREVEN CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING ANY AND ALL APPLICABLE PERMITS (INCLUDING BUT NOT LIMITED TO NPDES) FOR OFF-SITE BORROW AND/OR BORROW SITES REQUIRED TO COMPLETE TH CONTRACTOR SHALL VERIFY ALL BENCHMARK INFORMATION INDICATED IN THESE PLANS WITH THE SURVEYOR. MCEA IS NOT RESPONSIBLE FOR BENCHMARK INTERPRETATION OR LOCATION ERRORS. CONTRACTOR IS RESPONSIBLE FOR INSTALLING CONDUIT FOR ELECTRICAL SITE LIGHTING, DATA, TELEPHONE, IRRIGATION AND ELECTRICAL SERVICE. PROVIDE ONE (1) SPARE FOR EACH SERVICE. COORDINATE WITH CONTRACTOR IS RESPONSIBLE FOR IDENTIFYING AND RELOCATING EXISTING UTILITIES, INCLUDING ITEMS NOT IDENTIFIED ON PROPOSED PLANS AND SURVEY. CONTRACTOR IS RESPONSIBLE FOR COORDINATING WITH ADEQUATE SITE SECURITY MEASURES SHALL BE PROVIDED BY THE CONTRACTOR TO PREVENT UNAUTHORIZED PERSONNEL FORM ACCESSING THE SITE DURING/AFTER WORKING HOURS. CONTRACTOR IS ALSO RESPONSIBLE FOR PROVIDING APPROPRIATE AND VISIBLE SIGNAGE TO RESTRICT UNAUTHORIZED PERSONNEL FROM THE SITE. ALL VISITORS MUST REGISTER WITH THE SITE SUPERINTENDENT AND NOT BE ALLOWED DURING CONSTRUCTION OF THE RETAINING WALL (IF APPLICABLE), CONTRACTOR IS RESPONSIBLE FOR INSTALLING TEMPORARY FENCING AND SAFETY BARRIERS UNTIL FINAL FENCE IS INSTALLED AS A PART OF THE IF AN MSE/SEGMENTAL RETAINING WALL IS USED, THE CALCULATIONS AND PLANS SHALL BE PROVIDED BY THE WALL CONTRACTOR AS A PART OF THE BASE BID. WALL COLOR/MATERIAL/MANUFACTURER MUST BI APPROVED BY THE ARCHITECT AND OWNER PRIOR TO CONSTRUCTION. THE CONTRACTOR IS RESPONSIBLE FOR SUBMITTING TO SPARTANBURG COUNTY FOR REVIEW AND APPROVAL PRIOR TO INSTALLATION. THES PLANS MUST BE PREPARED BY A REGISTERED SOUTH CAROLINA ENGINEER. INSPECTION RECORDS MUST BE KEPT DURING THE WALL CONSTRUCTION AND PROVIDED TO SPARTANBURG COUNTY, AND ARCHITECT UPON PROPERTY INFORMATION STABILIZE ALL NON-PAVED DENUDED SURFACES USING HYDRAULICALLY APPLIED FLEXTERRA FGM IMMEDIATELY AFTER FINISH GRADING AND PRIOR TO FIRST RAINFALL THEREAFTER. STRICTLY COMPLY WITI PARCEL SIZE = 31.7 AC± CONTRACTOR IS RESPONSIBLE FOR COORDINATING WITH ORIGINAL SURVEYOR TO ESTABLISH TEMPORARY BENCHMARKS DURING CONSTRUCTION. MULTIPLE EXISTING ELEMENTS SHALL BE CHECKED TO INSUR ZONING: CONTRACTOR IS RESPONSIBLE FOR INSTALLING A JOB BOX ONSITE AND RAIN GAUGE. JOB BOX SHALL CONTAIN COPIES OF REQUIREMENTS OF 2017 CGP PERMIT, INSPECTION REPORTS AND ALL APPLICABL AS A PART OF THE BASE BID, THE CONTRACTOR IS RESPONSIBLE FOR PROVIDING TEMPORARY SEEDING IN AREAS NOTED TO RECEIVE SOD AS INTERMEDIATE EROSION CONTROL PROTECTION BEFORE FINA CONTRACTOR IS RESPONSIBLE FOR PROVIDING TRAFFIC CONTROL. DURING CONSTRUCTION PER SCHOOL REQUIREMENTS. AS A PART OF THE RASE RID/PRICE CONTRACTOR SHALL PROVIDE A TRAFFIC CONTROL PLAN(S) FOR ALL WORK PERFORMED WITHIN THE EXISTING RIGHT OF WAYS. ANY AND ALL FEES ASSOCIATED WITH PROVIDING A PERFORMANCE BOND (150% OF ALL IMPROVEMENTS WITHIN SCDOT RIGHT OF WAY ON-SITE BURIAL PITS ARE NOT PERMITTED. DURING CONSTRUCTION, SEDIMENT AND EROSION CONTROL BMP'S MAY NEED TO BE MOVED OR ADJUSTED IN ORDER TO ACHIEVE FINAL GRADES AND PRIOR TO FINAL STABILIZATION. THE CONTRACTOR IS RESPONSIBLE FOR MAKING THESE FIELD ADJUSTMENTS AS NECESSARY TO ACHIEVE FINAL GRADES AS A PART OF THE BASE BID. THESE ITEMS MAY INCLUDE SILT FENCE, INLET PROTECTION, RIP RAP OUTLET FOR AREAS TO RECEIVE SOD, CONTRACTOR SHALL INCLUDE THE COST TO REMOVE TEMPORARY GRASS, FINE GRADE, ESTABLISH TOP SOIL AND INSTALL SOD. TEMPORARY IRRIGATION MAY NEED BE REQUIRED TO ADDITIONAL REQUIREMENTS NO MECHANICAL GRADING SHALL OCCUR OUTSIDE THE LIMITS OF DISTURBANCE. WHERE LANDSCAPING IS TO BE INSTALLED OUTSIDE THE LIMITS OF DISTURBANCE, THE CONTRACTOR SHALL USE APPROPRIATE SPECIFIED BEFORE THE NEXT LAYER IS PLACED. REINFORCED CONCRETE PIPE (RCP) SHALL BE: CLASS III - DEPTHS 0'-12' TYPE 3 BEDDING CLASS IV - DEPTHS 12.1'-19' TYPE 3 BEDDING CLASS IV - DEPTHS 19.1'-25' TYPE 2 BEDDING CLASS V - DEPTHS 25.1'-39' TYPE 2 BEDDING RESPONSIBLE FOR RETAINING THE SERVICES. REFER TO DRAWING EP1.0 FOR CONSTRUCTION SEQUENCING REGARDING EROSION CONTROL

THE UTILITIES SHOWN ARE SHOWN FOR THE CONTRACTOR'S CONVENIENCE ONLY

THERE MAY BE OTHER UTILITIES NOT SHOWN ON THESE PLANS. THE ENGINEER ASSUMES NO RESPONSIBILITY FOR THE LOCATIONS SHOWN AND IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO VERIFY THE LOCATIONS OF ALL UTILITIES WITHIN THE LIMITS OF THE WORK. ALL DAMAGE MADE TO EXISTING UTILITIES BY THE CONTRACTOR SHALL BE THE SOLE RESPONSIBILITY OF THE CONTRACTOR.

SITE DATA SUMMARY PROPOSED DEVELOPMENT DISTURBED AREA = 0.5 AC± PROPOSED PAVED PARKING LOT ADDRESS: 1084 SPRINGFIELD ROAD **GRADING NOTES** APPROVAL OF THIS PLAN IS NOT AN AUTHORIZATION TO GRADE ON ADJACENT PROPERTIES. ANY GRADING BEYOND THE DENUDED LIMITS SHOWN ON THE PLAN IS A VIOLATION OF THE EROSION CONTROL REGULATIONS AND IS SUBJECT TO A FINE. GRADING MORE THAN ONE ACRE WITHOUT AN APPROVED EROSION CONTROL PLAN IS A VIOLATION OF THE COUNTY/CITY/SCDHEC EROSION CONTROL ORDINANCE AND IS SUBJECT TO A FINE. STABILIZATION IS THE BEST FORM OF EROSION CONTROL. TEMPORARY SEEDING IS NECESSARY TO ACHIEVE EROSION CONTROL ON LARGE DENUDED AREAS AND ESPECIALLY WHEN SPECIFICALLY REQUIRED AS PART OF THE CONSTRUCTION SEQUENCE SHOWN ON THE PLAN. ALL SLOPES MUST BE SEEDED (WITH TOPSOIL RE-SPREAD) AND MULCHED WITHIN 14 CALENDAR DAYS. REFER TO SCDHEC/SPARTANBURG COUNTY STANDARD NOTES AND EROSION CONTROL ORDINANCE (IF APPLICABLE) FOR ADDITIONAL MEASURES TO CONTROL EROSION AND SEDIMENT MAY BE REQUIRED BY A REPRESENTATIVE OF THE COUNTY/SCDHEC/CITY ENGINEERING DEPARTMENT AND/OR SCDHEC. SLOPES SHALL BE GRADED NO STEEPER THAN 2H:1V. FILL SLOPES GREATER THAN 10' REQUIRE ADEQUATE TERRACING. ALL GRASSED/LANDSCAPED AREAS SHALL BE FINISHED IN A MOWABLE CONDITION, WITH A SMOOTH SURFACE, FREE OF PROTRUDING ROOTS, ROCKS, OR OTHER DEBRIS THAT WOULD IMPEDE OPERATION OF A TYPICAL RESIDENTIAL GRADE MOWER. IN ORDER TO ENSURE PROPER DRAINAGE, KEEP A MINIMUM SLOPE OF 0.5% ALONG THE CURB. EARTHWORK SHALL BE TO THE LINES AND GRADES SHOWN (±1" IN LANDSCAPED AREAS, ±0.5" IN PAVEMENT/BUILDING PAD AREAS), THE CONTRACTOR SHALL PROOF-ROLL THE CONSTRUCTION AREA WITH HEAVY LOADED PNEUMATIC-TIRED EQUIPMENT. ALL SOFT SPOTS SHALL BE UNDERCUT AND RECOMPACTED WITH SUITABLE STRUCTURAL FILL MATERIAL. ALL FILL COMPACTION SHALL BE 95% OF MAXIMUM PER ASTM D 698 (STANDARD PROCTOR). ALL MATERIAL WITHIN 18 INCHES OF PAVEMENT AND BUILDING SUBGRADE SHALL BE COMPACTED TO 98 % OF MAXIMUM. FILL MATERIAL SHALL NOT CONTAIN ORGANIC MATERIAL, DEBRIS OR ROCKS, WHERE FILL IS TO BE PLACED, ALL EXISTING VEGETATION, ROOTS AND OTHER ORGANIC MATTER BELOW EXISTING GRADE SHALL BE STRIPPED AND DISPOSED OF AS DIRECTED BY THE GEOTECHNICAL ENGINEER. FILL SHALL BE PLACED IN SUCCESSIVE LAYERS OF NOT MORE THAN 6 TO 8 INCHES LOOSE THICKNESS, EACH LAYER SHALL BE SPREAD EVENLY AND COMPACTED AS ALL UNSURFACED AREAS DISTURBED BY GRADING OPERATIONS SHALL RECEIVE 4 INCHES OF TOPSOIL AND PERMANENT GRASSING. U.N.O. CONTRACTOR SHALL APPLY EROSION CONTROL BLANKETS (NORTH AMERICAN GREEN SC150 OR APPROVED EQUAL) TO ALL SLOPES 3H:1V OR STEEPER AND PERMANENT SYNTHETIC TURF REINFORCEMENT MATTING (NORTH AMERICAN GREEN P300 OR APPROVED EQUAL) TO ALL SLOPES 2H:1V OR STEEPER UNTIL A HEALTHY STAND OF GRASS IS OBTAINED. INSTALL BLANKETS WITH BIODEGRADABLE STAPLES PER MANUFACTURER'S SPECIFICATIONS AND RECOMMENDATIONS. IF SOD GRASSING IS INSTALLED, IT SHALL BE PROPERLY SECURED AND STAPLED. THE CONTRACTOR SHALL REMOVE ALL DEBRIS INCLUDING PAVEMENT. CONCRETE. AND UNSUITABLE MATERIAL FROM THE SITE, ALL AREAS UNDER EXISTING PAVEMENT SHALL BE SCARIFIED BEFORE PLACING STRUCTURAL FILL MATERIAL ALL STORM DRAINAGE PIPING SHALL BE RCP CLASS III, U.N.O. THE CONTRACTOR SHALL BE RESPONSIBLE FOR INSPECTING ALL EXISTING STRUCTURES WHERE NEW CONNECTIONS ARE INDICATED AND REPLACE AND/OR REPAIR AS NECESSARY TO PROVIDE A CONNECTION IN ACCORDANCE WITH THE PROJECT SPECIFICATIONS. REFER TO AMERICAN CONCRETE PIPE ASSOCIATION LRFD FILL HEIGHT TABLES FOR CONCRETE PIPE, CURRENT EDITION, FOR BEDDING INFORMATION, DEPTHS INDICATED ABOVE ARE APPLICABLE FOR PIPE SIZES UP TO 66 INCH Ø. THE DESIGN ENGINEER SHALL PROVIDE DETAILED INFORMATION FOR LARGER DIAMETER PIPE SIZES. SEE RIGID PIPE BEDDING DETAILS, ALL RCP SHALL HAVE BUTYL RUBBER GASKET SEALANT UNLESS OTHERWISE SPECIFIED. JOINTS AND FITTINGS/ACCESSORIES SHALL BE COMPATIBLE WITH PIPE. ALL JOINTS SHALL BE SOIL-TIGHT AND WATER-TIGHT (BELL AND SPIGOT W/ O-RING) WHERE INDICATED. ALL STORM DRAINAGE PIPE SHALL HAVE MINIMUM 3" BEDDING INSTALLED IN A TRENCH CONDITION (CLASS 3 MIN.) AND BE HDPE STORM SEWER LINES (WHERE INDICATED) SHALL BE ASTM F2306 WITH SMOOTH INTERIOR WALLS. JOINTS SHALL BE GASKETED WITH MINIMUM SOIL TIGHT CONNECTIONS (ASTM F 477). BEDDING AND INITIAL BACKFILL SHALL BE A MINIMUM CLASS IA, IB, OR II (ASTM D 2321) / NO. 5, 56, 57, 6, OR 67 STONE (AASHTO M43). HP STORM SHALL BE INSTALLED PER MANUFACTURER'S RECOMMENDATIONS AND SPECIFICATIONS. CONTRACTOR IS RESPONSIBLE FOR COORDINATING WITH THIRD PARTY TESTING FIRM FOR BEDDING AND BACKFILL REQUIREMENTS. CONTRACTOR'S SCOPE OF WORK SHALL INCLUDE PROVIDING AND MAINTAINING A COMPLETE EROSION CONTROL SYSTEM AS SHOWN IN THESE PLANS, AS WELL AS ANY ADDITIONAL TEMPORARY SEDIMENT TRAPS, DIVERSION DITCHES, OR OTHER MEASURES REQUIRED TO STABILIZE THE SITE THROUGHOUT THE CONTRACTOR'S CHOSEN SEQUENCE OF WORK. THE CONSTRUCTION SEQUENCE INDICATED HEREIN IS FOR THE CONTRACTOR'S REFERENCE, AND THE CONTRACTOR SHALL INDEPENDENTLY EVALUATE THE CRITICAL PROJECT MILESTONES IN ORDER TO DETERMINE THE ACTUAL CONSTRUCTION SEQUENCE. ALL CATCH BASIN COVERS SHALL BE CAST WITH THE PHRASE "NO DUMPING DRAINS TO STREAM". YARD INLETS SHALL BE PERMANENTLY STENCILED/CAST WITH THE SAME PHRASE. CEPSCI INSPECTIONS SHALL BE PERFORMED BY 'QUALIFIED PERSONNEL'. AS DEFINED IN THE MOST CURRENT SOUTH CAROLINA NPDES GENERAL PERMIT. AT THE INTERVALS INDICATED IN THE 'SCDHEC GENERAL NOTES'. THIS SHEET, THE OWNER SHALL BE CONTRACTOR IS RESPONSIBLE FOR INSTALLING MATTING WHERE SLOPES ARE INDICATED AS 3:1 OR STEEPER, EVEN IF SLOPES ARE GRADED DIFFERENTLY CTOR SHALL REFER TO GRASSING NOTES AND DETAILS FOR FURTHER ORMATION. CONTRACTOR SHALL ALSO COORDINATE WITH LANDSCAPE PLANS FOR EAS TO RECEIVE SOD. AREAS TO RECEIVE SOD MAY REQUIRE TEMPORARY GRASSING. CONTRACTOR SHALL BID EARTHWORK AS A COMPLETED SITE AS PER THE DRAWINGS. RMANENT GRASSING (NON SOD AREAS) AREAS SHALL RECEIVE HYDRAULICALLY APPLIED DETAILS, AND FINISHED GRADES. PERFORM INDEPENDENT EARTHWORK ANALYSIS AS XTERRA FGM IMMEDIATELY AFTER FINISHING GRADING AND PRIOR TO FIRST RAINFALL NEEDED TO CONFIRM QUANTITIES (IMPORT OR EXPORT). ANY EARTH MATERIALS TO BE ENT. APPLICATION AND INSTALLATION OF FLEXTERRA SHALL STRICTLY COMPLY WITH REMOVED FROM THE SITE IS THE RESPONSIBILITY OF THE CONTRACTOR AND SHALL BE NUFACTURERS RECOMMENDATIONS. DISPOSED IN A LAWFUL MANNER. IF MATERIAL IS TO BE IMPORTED, IT SHALL BE APPROVED STRUCTURAL MATERIAL (AS IDENTIFIED BY THE GEOTECHNICAL ENGINEER) THERE WILL NOT BE AN ADJUSTMENT TO CONTRACT PRICE FOR EARTHWORK.



EXISTING CONDITIONS AND DEMOLITION PLAN

EROSION CONTROL NOTES AND DETAILS

EROSION CONTROL NOTES AND DETAILS

EROSION CONTROL NOTES AND DETAILS

SEDIMENT AND EROSION CONTROL PLAN

C5.2

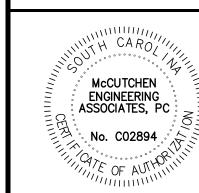
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SITE AND STORM DRAINAGE NOTES AND DETAILS

STORM WATER MANAGEMENT POND NOTES AND DETAILS

STORM WATER MANAGEMENT POND NOTES AND DETAILS

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NTRACTOR SHALL PROVIDE THE SITE ENGINEER WITH AN AS-BUILT SURVEY (PREPA ' A LICENSED SOUTH CAROLINA SURVEYOR PER SCDHEC REQUIREMENTS) OF ALL SITE MPROVEMENTS WITH DETAILS PROVIDED REGARDING THE UTILITIES AND STORM DRAINAGE

INVERTS, SIZES, AND MATERIALS. PLEASE CONTACT THE SITE ENGINEER AT 864-582-0585 TO

CONFIRM THE AS-BUILT REQUIREMENTS. IF ADDITIONAL AS-BUILTS (DUE TO THE PONDS NOT

BEING CONSTRUCTED PER APPROVED PLANS) ARE REQUIRED CONTRACTOR IS RESPONSIBLE

KEY PROJECT NOTES

SITE DESIGN IS BASED UPON A FIELD SURVEY WITH A LOCAL HORIZONTAL AND VERTICAL DATUM AS INDICATED ON THE SURVEY.

SEE LANDSCAPE ARCHITECT'S DRAWINGS FOR FINAL LANDSCAPING AND IRRIGATION DESIGN/SPECIFICATION.

ALL DISTANCES AND DATA SHALL BE CHECKED BY THE CONTRACTOR PRIOR TO THE START OF CONSTRUCTION, IN CASE OF CONFLICT, THE

ENGINEER SHALL BE NOTIFIED IMMEDIATELY SO THAT CLARIFICATIONS MAY BE MADE PRIOR TO THE START OF WORK

ALL PAVEMENT MARKINGS AND TRAFFIC SIGNAGE SHALL COMPLY WITH MUTCD REQUIREMENTS, CURRENT EDITION, DIRECTIONAL ARROWS AND PAVEMENT MARKINGS SHALL BE INSTALLED PER SCDOT STANDARD DRAWING 625-410-00 (LATEST EDITION).

SITE WORK CONTRACTOR SHALL COORDINATE WITH ELECTRICAL SITE PLAN AND LANDSCAPING PLAN FOR SLEEVES REQUIRED UNDERNEATH

PROPOSED PAVEMENT FOR INSTALLATION. ALL SLEEVES SHALL BE APPROPRIATELY MARKED/CAPPED FOR USE AT A LATER DATE.

ONLY DELINEATED POINTS OF INGRESS/EGRESS SHALL BE UTILIZED DURING CONSTRUCTION. ADEQUATE SITE SECURITY MEASURES SHALL BE PROVIDED BY THE CONTRACTORS TO PREVENT UNAUTHORIZED PERSONNEL FROM ACCESSING THE SITE DURING/AFTER WORKING HOURS.

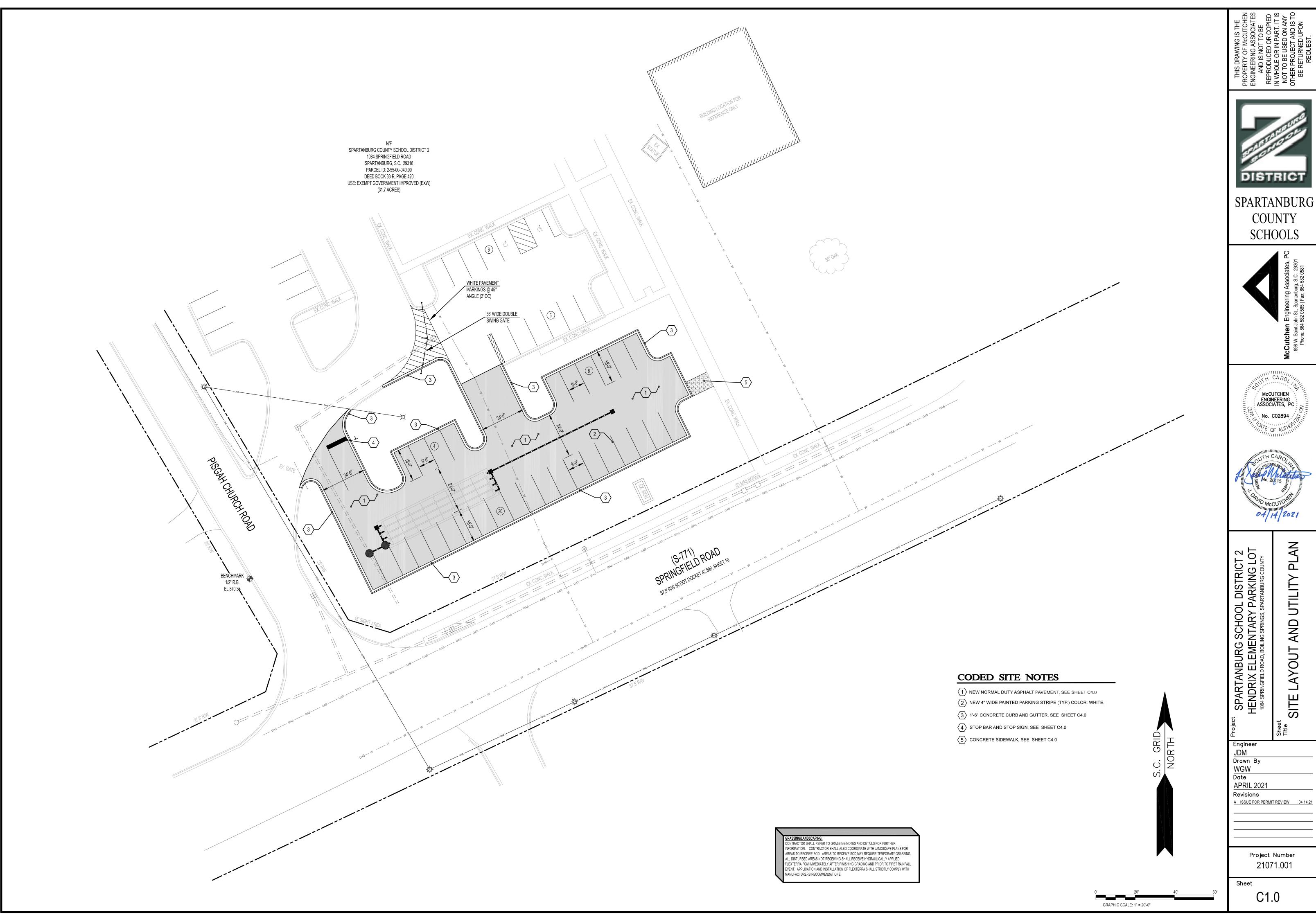
CONTRACTOR IS RESPONSIBLE FOR PROVIDING APPROPRIATE AND VISIBLE SIGNAGE TO RESTRICT UNAUTHORIZED PERSONNEL FROM THE SITE. ALL VISITORS MUST REGISTER WITH SITE SUPERINTENDENT AND GENERAL CONTRACTOR. THE CONTRACTOR SHALL REQUEST INSPECTION BY THE ENGINEER AT LEAST 30 DAYS PRIOR TO THE DESIRED SITE WORK CLOSEOUT DATE. ALL

APPLICABLE AS-BUILT INFORMATION SHALL BE PROVIDED TO THE ENGINEER FOR REVIEW BEFORE THIS INSPECTION.

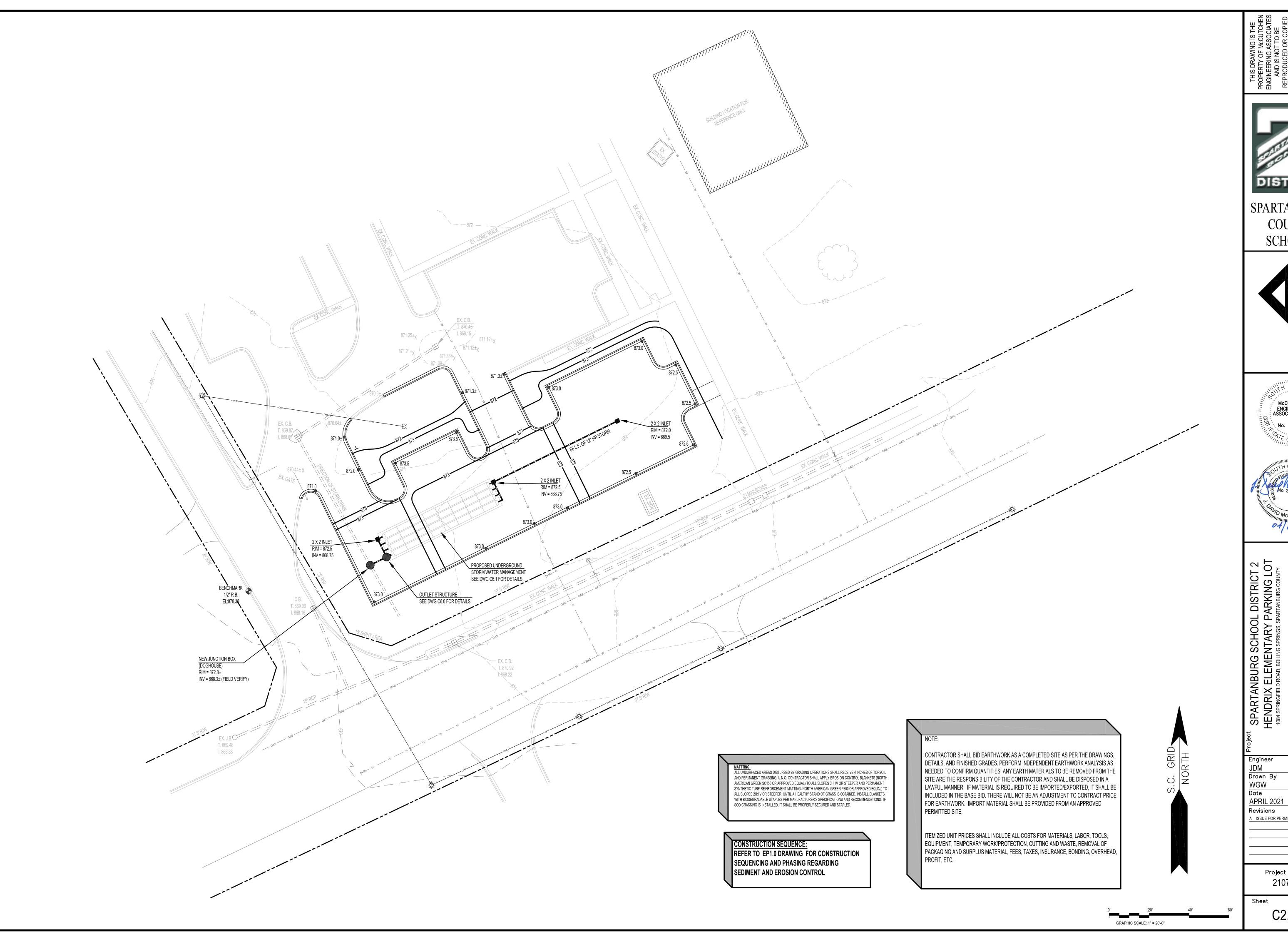
THE CONTRACTOR SHALL PROVIDE THE SITE ENGINEER WITH AN AS-BUILT SURVEY (PREPARED BY A LICENSED SOUTH CAROLINA SURVEYOR PER SCDHEC REQUIREMENTS) OF ALL SITE IMPROVEMENTS WITH DETAILS PROVIDED REGARDING THE UTILITIES AND STORM DRAINAGE INVERTS, SIZES, AND MATERIALS, PLEASE CONTACT THE SITE ENGINEER AT 864-582-0585 TO CONFIRM THE AS-BUILT REQUIREMENTS. IF ADDITIONAL AS-BUILTS (DUE TO THE PONDS NOT BEING CONSTRUCTED PER APPROVED PLANS) ARE REQUIRED CONTRACTOR IS RESPONSIBLE

EXISTING LANDSCAPING SHALL BE PROTECTED DURING ALL PHASES OF CONSTRUCTION.

PLEASE NOTE STREET CLOSING/PARTIAL OR OTHERWISE REQUIRE PERMITS FROM SPARTANBURG COUNTY











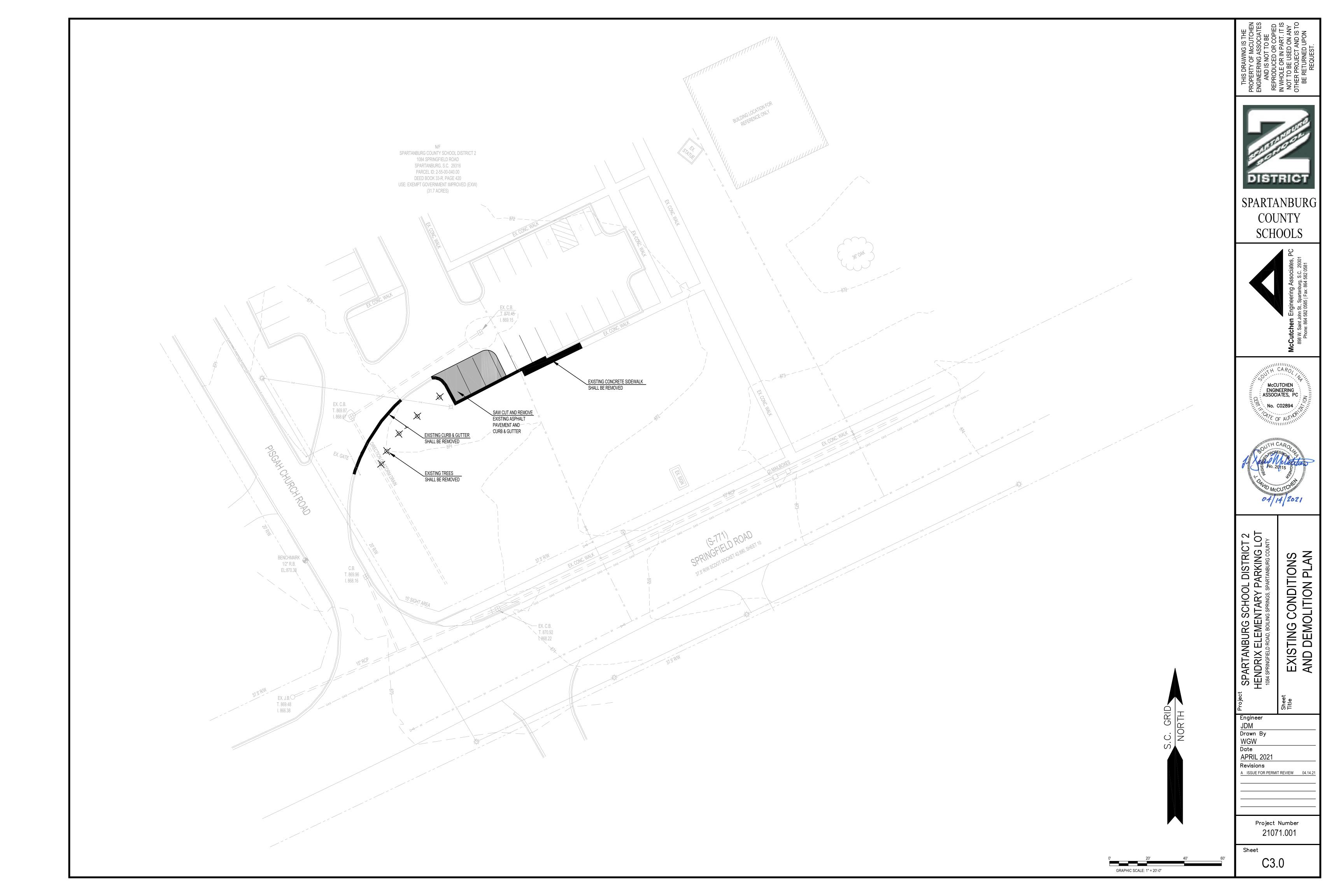


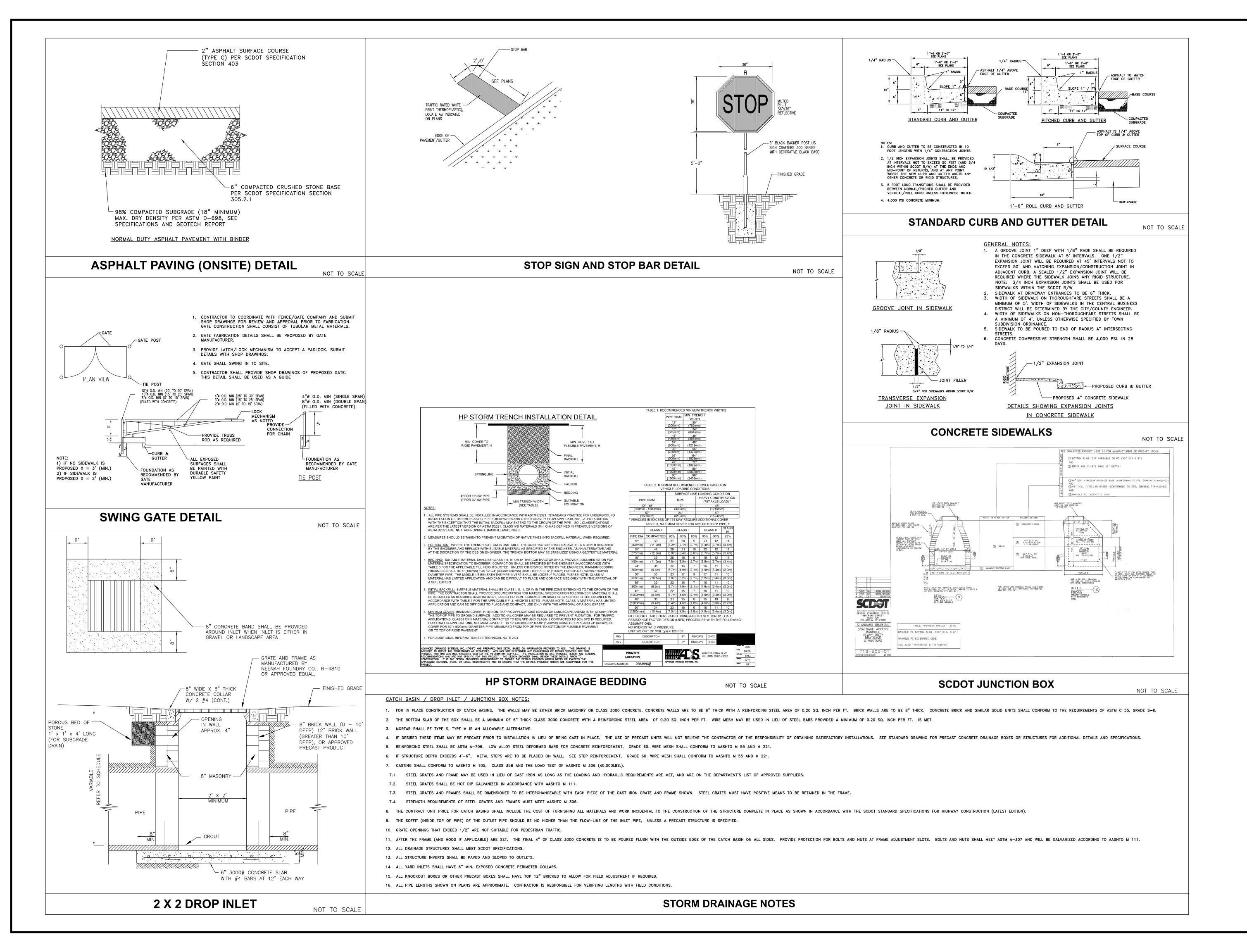


GRADING AND STORM DRAINGE PLAN

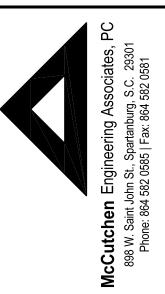
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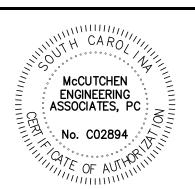
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SPARTANBURG SCHOOL DISTRICT HENDRIX ELEMENTARY PARKING LO 1 DRAINA()ETAILS STORM IS AND DE E AND NOTES

Engineer WGW Date

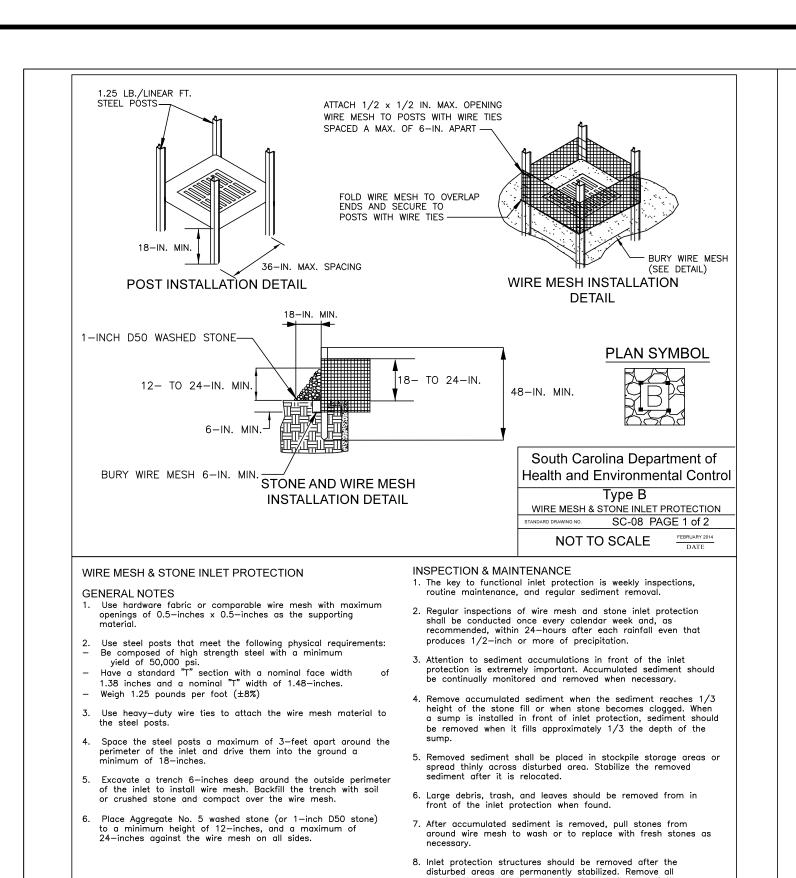
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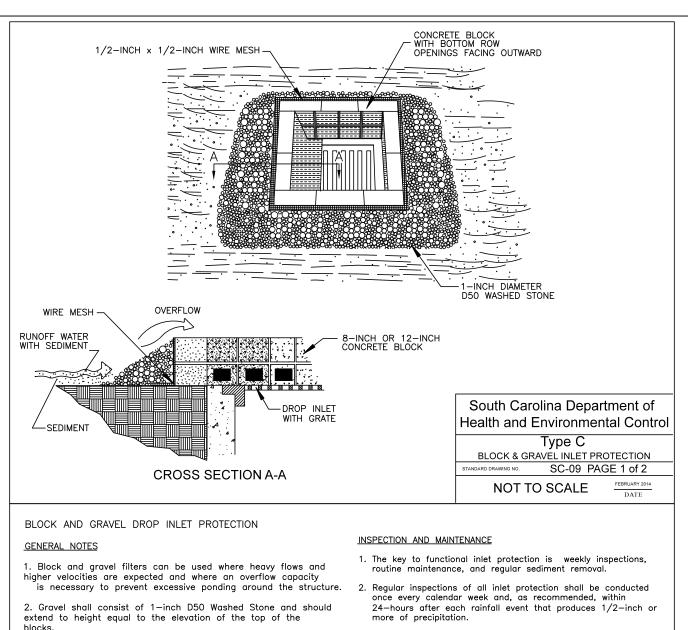
construction material and sediment, and dispose of them properly. Grade the disturbed area to the elevation of the drop inlet crest. Stabilize all bare areas immediately.

South Carolina Department of

Health and Environmental Control

Type B

WIRE MESH & STONE INLET PROTECTION
TANDARD DRAWING NO. SC-08 PAGE 2 of 2



3. Place the bottom row of the concrete blocks lengthwise on

4. The height of the barrier can be varied, depending upon design

5. Wire mesh should be placed over the outside vertical face of

the concrete blocks to prevent stones from being washed

comparable wire mesh with $\frac{1}{2}$ -inch x $\frac{1}{2}$ -inch openings should

through the holes in the blocks. Hardware cloth or

their side so that the open end faces outward, not upward.

needs by stacking a combination of blocks that are 8- to 12-inches wide.

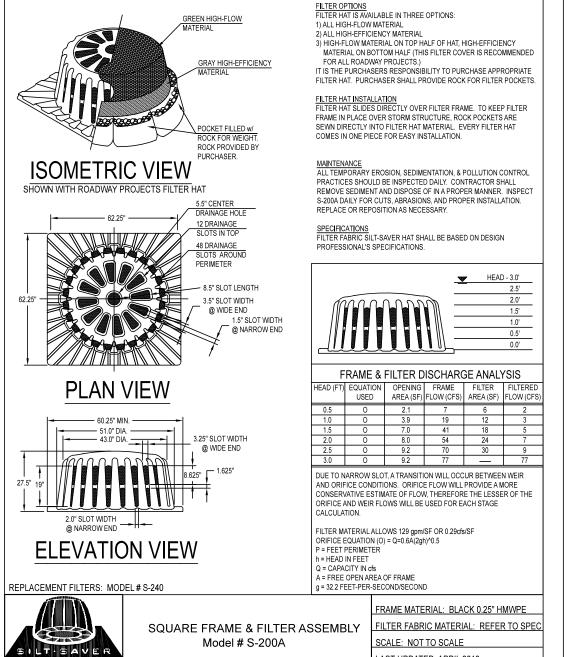
3. Attention to sediment accumulations in front of the inlet protection is extremely important. Accumulated sediment should be continually monitored and removed when necessary. 4.Remove accumulated sediment when it reaches 1/3 the height of the blocks. If a sump is used, sediment should be removed when it fills approximately 1/3 the depth of the hole. 5. Removed sediment shall be placed in stockpile storage areas or spread thinly across disturbed area. Stabilize the removed sediment after it is relocated.

6. Large debris, trash, and leaves should be removed from in front of tubes when found. 7. If the stone filter becomes clogged with sediment, the stones must be pulled away from the inlet and cleaned or replaced

with fresh stone.

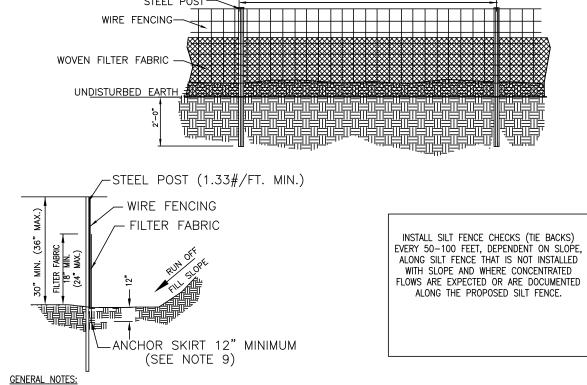
8. Inlet protection structures should be removed after the disturbed areas are permanently stabilized. Remove all construction material and sediment, and dispose of them properly. Grade the disturbed area to the elevation of the drop inlet structure crest. Stabilize all bare areas immediately.

> South Carolina Department of Health and Environmental Control Type C BLOCK & GRAVEL INLET PROTECTION
> ANDARD DRAWING NO. SC-09 PAGE 2 of 2



SILT-SAVER, INC. 1094 CULPEPPER DRIVE, CONYERS, GA 30094 PHONE: (770) 388-7818 FAX: (770) 388-7640 TOLL FREE: 1-888-382-SILT (7458) www.siltsaver.com

LAST UPDATED: APRIL 2010



FILTER FABRIC FENCE SHALL BE A MINIMUM OF 32" IN WIDTH AND SHALL HAVE A MINIMUM OF 6 LINE WIRES WITH 12" STAY SPACING. WOVEN FILTER FABRIC BE USED WHERE SILT FENCE IS TO REMAIN FOR A PERIOD OF MORE THAN 30 DAYS. . STEEL POSTS SHALL BE 5'-0" IN HEIGHT AND BE OF THE SELF-FASTENER ANGLE STEEL TYPE. WIRE FENCING SHALL BE AT LEAST #10 GAGE WITH A MINIMUM OF 6 LINE WIRES WITH 12" STAY SPACING. . TURN SILT FENCE UP SLOPE AT ENDS.

5. WIRE MESH SHALL BE MIN. 13 GAGE WITH MAXIMUM 12" OPENINGS. 7. WIRE AND WASHED STONE WILL BE REQUIRED AND NOTED ON PLANS WHEN: A. AT TOE OF SLOPES GREATER THAN 10 FEET VERTICAL

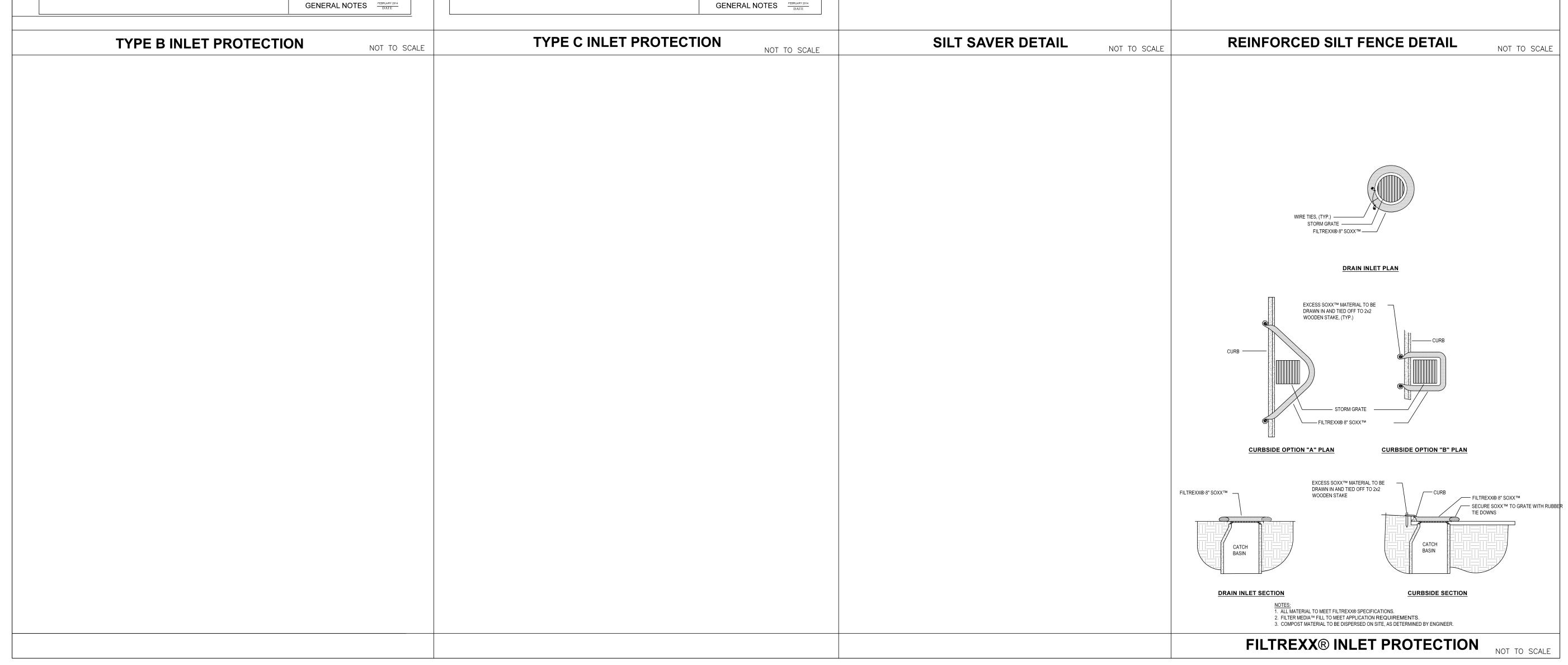
B. AT DENUDED LIMITS WHERE AN UNDISTURBED BUFFER IS 50 FEET OR LESS AWAY.

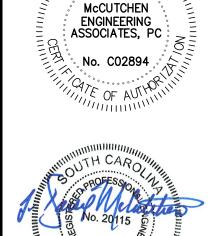
THE FENCE SHOULD BE PLACED ACROSS THE SLOPE ALONG A LINE OF UNIFORM ELEVATION (PERPENDICULAR TO THE DIRECTION OF FLOW).

THE FENCE SHOULD BE LOCATED AT LEAST 10 FEET FROM THE TOE OF STEEP SLOPE TO PROVIDE SEDIMENT STORAGE AND ACCESS FOR MAINTENANCE AND CLEANOUT. A FLAT BOTTOM TRENCH APPROX. 4 INCHES WIDE AND 12 INCHES DEEP, OR A V-SHAPED TRENCH 12 INCHES DEEP SHOULD BE EXCAVATED.

INSPECTION AND MAINTENANCE NOTES:

- . FILTER BARRIERS SHALL BE INSPECTED BY THE FINANCIALLY RESPONSIBLE PARTY OR HIS AGENT IMMEDIATELY AFTER EACH RAINFALL (7 DAYS MIN.) AND AT LEAST DAILY DURING PROLONGED RAINFALL. ANY REPAIRS NEEDED SHALL BE MADE IMMEDIATELY. SHOULD THE FABRIC DECOMPOSE OR BECOME INEFFECTIVE PRIOR TO THE END OF THE EXPECTED USABLE LIFE AND THE BARRIER STILL IS NECESSARY, THE FABRIC SHALL BE REPLACED PROMPTLY.
- SEDIMENT DEPOSITS SHOULD BE REMOVED WHEN DEPOSITS REACH APPROX. 1/3 THE HEIGHT OF THE BARRIER. ANY SEDIMENT DEPOSITS REMAINING IN PLACE AFTER THE SILT FENCE IS REMOVED SHALL BE DRESSED TO CONFORM TO THE EXISTING GRADE, PREPARED AND SEEDED. . CHECK FOR AREAS WHERE RUNOFF HAS ERODED A CHANNEL BENEATH THE FENCE, OR WHERE THE FENCE WAS CAUSED TO SAG OR COLLAPSE BY RUNOFF OVERTOPPING THE FENCE. IF THE FENCE FABRIC TEARS, BEGINS TO DECOMPOSE, OR IN ANY WAY BECOMES INEFFECTIVE, REPLACE THE
- AFFECTED SECTION(S) OF FENCE IMMEDIATELY. REINFORCED SILT FENCE SHOULD BE REMOVED WITHIN 30 DAYS AFTER FINAL SITE STABILIZATION IS ACHIEVED OR AFTER TEMPORARY BMP'S ARE NO LONGER NEEDED. TRAPPED SEDIMENT SHOULD BE REMOVED OR STABILIZED ON SITE. DISTURBED AREAS RESULTING FROM FENCE REMOVAL SHALL BE





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DISTRICT

SPARTANBURO

SPARTANBURG SCHOOL DISTRICT JENDRIX ELEMENTARY PARKING LC NET. AND NOTES **EROSION CONTROL**

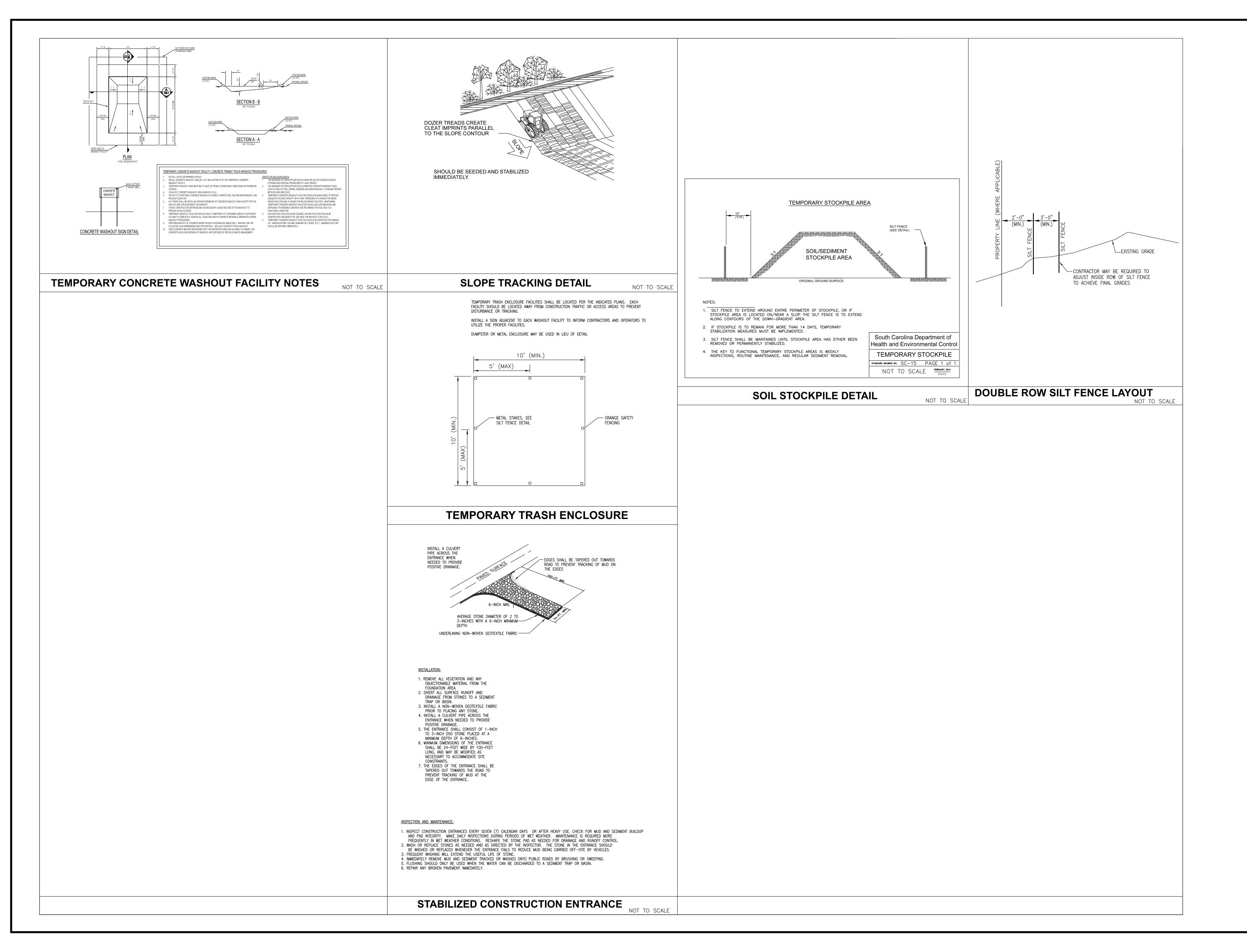
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> Project Number 21071.001

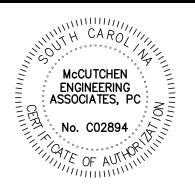
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SPARTANBURG SCHOOL DISTRICT 2
HENDRIX ELEMENTARY PARKING LOT
1084 SPRINGFIELD ROAD, BOILING SPRINGS, SPARTANBURG COUNTY CONTROL **EROSION** (

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TEMPORARY STABILIZATION

TEMPORARY STABILIZATION:
TEMPORARY STABILIZATION IS DEFINED AS A CONDITION WHERE EXPOSED SOILS OR DISTURBED AREAS ARE PROVIDED A TEMPORARY VEGETATIVE AND/OR NON-VEGETATIVE PROTECTIVE COVER TO PREVENT EROSION AND SEDIMENT LOSS. TEMPORARY STABILIZATION MAY INCLUDE TEMPORARY SEEDING, GEOTEXTILES, MULCHES, AND OTHER TECHNIQUES TO REDUCE OR ELIMINATE EROSION UNTIL EITHER FINAL STABILIZATION CAN BE ACHIEVED OR UNTIL FURTHER CONSTRUCTION ACTIVITIES TAKE PLACE TO RE-DISTURB THIS AREA.

INITIATING TEMPORARY STABILIZATION:
INITIATE TEMPORARY STABILIZATION BY MULCH OR TEMPORARY STABILIZATION BY SEEDING WITHIN 7 CALENDAR DAYS WHERE LAND DISTURBING ACTIVITIES HAVE TEMPORARILY CEASED ON THE PROJECT AND WILL NOT RESUME FOR A PERIOD EXCEEDING 14 CALENDAR DAYS. WHERE LAND DISTURBING ACTIVITIES ON A PORTION OF THE PROJECT ARE TEMPORARILY CEASED, AND THE LAND DISTURBING ACTIVITIES ARE RESUMED WITHIN 14 DAYS, TEMPORARY STABILIZATION MEASURES ARE NOT REQUIRED TO BE INITIATED ON THAT PORTION OF THE PROJECT

TEMPORARY STABILIZATION BY SEEDING IS REQUIRED IF THE PROJECT WILL NOT BE WORKED FOR PERIOD LONGER THAN 60

INITIATE TEMPORARY STABILIZATION MEASURES AS SOON AS PRACTICABLE FOR AREAS WHERE INITIATING TEMPORARY STABILIZATION MEASURES WITHIN 7 DAYS IS INFEASIBLE (E.G., WHERE SNOW COVER, FROZEN GROUND, OR DROUGHT CONDITIONS PRECLUDE STABILIZATION)

ACCEPTANCE OF TEMPORARY STABILIZATION BY THE REGULATORY AGENCY AND THE DESIGN ENGINEER OR LANDSCAPE ARCHITECT, TEMPORARY STABILIZATION IS REQUIRED THAT IS SUFFICIENT TO CONTROL EROSION FOR A GIVEN AREA AND LENGTH OF TIME BEFORE THE NEXT PHASE OF CONSTRUCTION OR THE ESTABLISHMENT OF PERMANENT SEEDING IS TO COMMENCE. A SATISFACTORY STAND OF TEMPORARY STABILIZATION MEETING THE REQUIREMENTS OF THIS SPECIFICATION IS REQUIRED REGARDLESS OF THE TIME OF THE YEAR THE WORK IS PERFORMED.

TEMPORARY COVER BY MULCH
USE TEMPORARY COVER BY MULCH WHERE IT IS NOT FEASIBLE OR PRACTICABLE TO BRING AN AREA TO FINAL SLOPE AND GRADE. FINISH THE SURFACE SO THAT PERMANENT SEEDING CAN BE PERFORMED WITHOUT SUBSEQUENT DISTURBANCE BY

TEMPORARY COVER BY SEEDING
FOLLOWING THE PREPARATION OF THE SEEDBED. SOW SEED PER THE SEEDING TABLES AND APPLY AN APPROPRIATE MULCH PRIOR TO A RAINFALL EVENT THAT COMPACTS THE SEEDBED. THE CONTRACTOR MAY ADD GRANULAR LIME AND FERTILIZER AS

FINAL STABILIZATION

FINAL STABILIZATION IS DEFINED THAT ALL LAND -- DISTURBING ACTIVITIES AT THE CONSTRUCTION SITE HAVE BEEN COMPLETED AND THAT ON ALL AREAS NOT COVERED BY PERMANENT STRUCTURES, EITHER

- 1. A UNIFORM (E.G., EVENLY DISTRIBUTED, WITHOUT LARGE BARE AREAS) PERMANENT VEGETATIVE COVER WITH A DENSITY OF 70 PERCENT HAS BEEN ESTABLISHED, OR
- 2. EQUIVALENT PERMANENT STABILIZATION MEASURES (SUCH AS THE USE OF LANDSCAPING MULCH. RIPRAP PAVEMENT AND GRAVEL) HAVE BEEN IMPLEMENTED TO PROVIDE EFFECTIVE COVER FOR EXPOSED PORTIONS OF THE CONSTRUCTION SITE NOT STABILIZED WITH PERMANENT VEGETATION
- FINAL STABILIZATION BY VEGETATION MUST BE ACHIEVED WITH PERMANENT PERENNIAL VEGETATION PRIOR

TO ISSUING THE NOTICE OF TERMINATION (NOT).

PERMANENT SEEDING
INITIATE PERMANENT SEEDING WITHIN 7 CALENDAR DAYS WHERE LAND DISTURBING ACTIVITIES HAVE PERMANENTLY CEASED ON THE PROJECT. WHERE LAND DISTURBING ACTIVITIES ARE RESUMED WITHIN 14 DAYS, STABILIZATION MEASURES ARE NOT REQUIRED TO BE INITIATED ON THAT PORTION OF THE PROJECT. INITIATE PERMANENT SEEDING MEASURES AS SOON AS PRACTICABLE FOR AREAS WHERE INITIATING PERMANENT SEEDING MEASURES WITHIN 7 DAYS IS INFEASIBLE (E.G., WHERE SNOW COVER, FROZEN GROUND, OR DROUGHT CONDITIONS PRECLUDE STABILIZATION), WHEN PERFORMING PERMANENT SEEDING FOR PERMANENT DETENTION PONDS, ENSURE THAT THE DETENTION POND IS CLEANED OF ANY DEPOSITED SEDIMENT AND GRADED TO THE REQUIRED PERMANENT DETENTION BASIN CONFIGURATION. ENSURE THE SEEDBED FOR THE PERMANENT SEEDING IS ESTABLISHED IN ACCORDANCE WITH THIS SPECIFICATION.

ACCEPTANCE OF PERMANENT SEEDING
BEFORE ACCEPTANCE, A UNIFORM PERENNIAL VEGETATIVE COVER WITH A DENSITY OF 70% OF EACH SQUARE YARD OF THE

SEEDED AREA IS REQUIRED. A WELL DEVELOPED ROOT SYSTEM MUST BE ESTABLISHED TO SUFFICIENTLY SURVIVE DRY PERIODS AND WINTER WEATHER AND BE CAPABLE OF REESTABLISHMENT IN THE SPRING.

PERMANENT SEEDING INSTALLATION
FOLLOWING THE PREPARATION OF THE SEEDBED, PERFORM PERMANENT SEEDING PER THE SEEDING TABLES AND APPLY AN APPROPRIATE MULCH WITHIN 5 WORKING DAYS AND/OR PRIOR TO A RAINFALL EVENT THAT COMPACTS THE PREPARED SEEDBED. IF A RAIN EVENT OCCURS THAT COMPACTS OR ERODES THE SEEDBED PRIOR TO PERFORMING PERMANENT SEEDING, THE SEEDBED MUST BE RE-PREPARED PRIOR TO CONDUCTING PERMANENT SEEDING. ADD FERTILIZER AND LIME AS REQUIRED BY A

AGRICULTURAL GRANULAR LIME
USE AGRICULTURAL GRADE, STANDARD GROUND LIMESTONE FOR ALL PERMANENT SEEDING APPLICATIONS AND SODDING

APPLYING GRANULAR LIME
A SOIL ANALYSIS IS RECOMMENDED PRIOR TO APPLICATION. APPLY AT A RATE WITHIN ±10%%% OF WEIGHT RECOMMENDATION OF SOIL ANALYSIS. DO NOT APPLY MORE THAN 2,500 LBS/ACRE OF IN A SINGLE APPLICATION.

<u>FAST ACTING LIME</u> USE FAST ACTING LIQUID AND/OR DRY FORMS OF LIME FOR ALL TEMPORARY SEEDING AND PERMANENT SEEDING APPLICATIONS.

GRANULAR FERTILIZER

USE FOR ALL PERMANENT SEEDING APPLICATIONS AND ALL SODDING APPLICATIONS. PROPER MIXTURE IS DEPENDENT ON THE EXISTING SOIL CONDITIONS AND IT IS RECOMMENDED THAT A SOIL ANALYSIS BE PERFORMED IF THE SOIL CONDITIONS ARE UNCERTAIN IN THE AREA OF FERTILIZER APPLICATION

USE FERTILIZER THAT INCORPORATES A MINIMUM OF 50% WATER INSOLUBLE (SLOW RELEASE) . ANIMAL BY-PRODUCT OR MUNICIPAL WASTE FERTILIZERS ARE NOT ACCEPTABLE UNDER THIS SPECIFICATION UNLESS A SOIL ANALYSIS IS PERFORMED TO DETERMINE OTHERWISE, A GOOD RULE OF THUMB GRANULAR FERTILIZER TO APPLY IN THE UPSTATE OF SOUTH CAROLINA IS 10-10-10.

IN NO CASE SHOULD A 20-20-20 FERTILIZER BE USED DUE TO THE POTENTIAL BURNING OF THE SEEDBED. COMPOST SOIL AMENDMENT

FOR SEEDBEDS THAT HAVE LITTLE OR NO TOPSOIL, ARE HIGHLY ACIDIC, OR ARE LACKING SUFFICIENT NUTRIENTS TO SUSTAIN A HEALTH STAND OF GRASS PLACE, AND MIX CERTIFIED WEED FREE COMPOST INTO THE SEEDBED TO ENSURE A GOOD STAND

BIOLOGICAL GROWTH STIMULANT

USE FOR ALL PERMANENT SEEDING, SODDING, AND TEMPORARY SEEDING APPLICATIONS. ANIMAL BY-PRODUCTS OR MUNICIPAL WASTE PRODUCTS ARE NOT ACCEPTABLE, AND CAN CAUSE BURNING OF THE SEEDBED IF APPLIED AS

SEEDING DATES AND RATES OF APPLICATION

PERFORM SEEDING DURING THE PERIODS AND AT THE RATES SPECIFIED IN THE SEEDING TABLES. DO NOT USE TEMPORARY COVER BY SEEDING OR PERMANENT SEEDING FOR PROJECTS WHEN:

- THE GROUND IS FROZEN AND/OR WHEN THE 10-DAY FORECASTED LOW TEMPERATURE REMAINS BELOW 35 DEGREES
- THE GROUND IS EXCESSIVELY WET; OR

 THE GROUND IS EXCESSIVELY DRY (PERIODS OF DROUGHT) UNLESS WATERING IS SPECIFIED. DURING PERIODS OF ADVERSE CONDITIONS, USE TEMPORARY COVER BY MULCH.

SEEDBED PREPARATION

- ENSURE THAT THE AREAS RECEIVING PERMANENT SEEDING ARE UNIFORM AND CONFORM TO THE FINISHED GRADE OF THE PROJECT
- PERFORM MINOR SHAPING AND EVENING OF UNEVEN AND ROUGH AREAS OUTSIDE OF THE GRADED AREA IN ORDER TO PROVIDE FOR MORE EFFECTIVE EROSION CONTROL AND FOR EASE OF SUBSEQUENT MOWING OPERATIONS.
- LOOSEN THE SEEDBED (INCLUDING CUT SLOPES) TO A MINIMUM DEPTH OF THREE (3) INCHES BEFORE INITIATING PERMANENT SEEDING AND TEMPORARY SEEDING.
- AN ACCEPTABLE METHOD OF PREPARING THE SEEDBED ON SLOPES IS VERTICALLY TRACKING THE SEEDBED UP AND SEEDBED UP AND DOWN THE SLOPE WITH PROPER EQUIPMENT.
- REMOVE STONES LARGER THAN TWO AND ONE-HALF (2½) INCHES IN ANY DIMENSION, LARGE DIRT CLODS, ROOTS, OR OTHER DEBRIS BROUGHT TO THE SURFACE.
- USE COMPOST IF GOOD SEEDBED MATERIAL IS NOT LOCATED ON SITE OR RESULTS OF THE SOIL TEST SHOW THE SEEDBED IS EXCESSIVELY NUTRIENT DEFICIENT TO THE EXTENT OF REQUIRING COSTLY FERTILIZER ADDITIONS AND OR HAVE EXCESSIVELY LOW PH VALUES (LOWER THAN 5.0).
- CONSIDER THE USE OF MECHANICAL SEED DRILLS TO PERFORM PERMANENT SEEDING ON AREAS WHERE TEMPORARY SEEDING OR TEMPORARY COVER BY MULCH WAS PREVIOUSLY UTILIZED.

REQUIRED FOR ALL PERMANENT SEEDING, TEMPORARY SEEDING, AND TEMPORARY COVER APPLICATIONS. TEMPORARY SEEDING AND TEMPORARY COVER APPLICATIONS WHEN THE APPLICATION AREA WILL REQUIRE DO NOT USE MULCH IN AREAS WHERE CONCENTRATED FLOW IS EXPECTED. USE HECP MULCH FOR ADDITIONAL GRADING PRIOR TO PERMANENT SEEDING. DO NOT USE EROSION CONTROL BLANKETS (ECB) OR TURF REINFORCEMENT MATTING (TRM) IN THIS SITUATION.

WOOD CHIP MULCH

WOOD CHIP MULCH IS NOT ACCEPTABLE FOR SEEDING APPLICATIONS. IF WOOD CHIP MULCH IS USED FOR TEMPORARY COVER BY MULCH, IT MUST BE REMOVED PRIOR TO PERFORMING PERMANENT SEEDING

STRAW OR HAY MULCH WITH TACKIFIER

- JSE MATERIAL THAT IS CERTIFIED WEED. DO NOT USE ON SLOPES STEEPER THAN 4H:1V. ANCHOR USING ONE OF
- THE FOLLOWING TACKING AGENTS: ORGANIC OR CHEMICAL TACKIFIER
- HYDRAULIC STRAW TACKIFIERS

NOT USE MIXED MUNICIPAL SOLID WASTE COMPOST.

EMULSIFIED ASPHALT

APPLYING STRAW OR HAY MULCH UNIFORMLY APPLY MATERIAL AT THE RATE OF 2,000 POUNDS PER ACRE.

COMPOST MULCH

ONLY USE FROM PRODUCER THAT PARTICIPATES IN THE USCC STA PROGRAM. DO NOT USE MATERIALS THAT HAVE BEEN TREATED WITH CHEMICAL PRESERVATIVES AS A COMPOST MULCH. DO

HYDRAULIC EROSION CONTROL PRODUCTS (HECPS)

USE AS AN ALLOWABLE MULCH FOR TEMPORARY COVER BY MULCH, TEMPORARY COVER BY SEEDING OR PERMANENT COVER BY SEEDING APPLICATIONS. DO NOT USE AS A CHANNEL LINER OR FOR AREAS RECEIVING CONCENTRATED FLOW.

TEMPORARY EROSION CONTROL BLANKETS (ECB) AND TURF REINFORCEMENT MATTING (TRM)

CONSIDER FOR PERMANENT SEEDING APPLICATION AREAS WITH STEEP SLOPES OR AREAS WHERE THERE IS A SIGNIFICANT EROSION PROBLEM OR POTENTIAL FOR EROSION. USE IN AREAS WHERE CONCENTRATED FLOW IS EXPECTED. DO NOT USE FOR TEMPORARY SEEDING APPLICATIONS WHEN THE APPLICATION AREAS WILL REQUIRE ADDITIONAL GRADING OR MODIFICATIONS PRIOR TO PERMANENT SEEDING

PROTECTION OF STRUCTURES

COVER ANY PARTS OF BRIDGES, CULVERTS, GUARDRAILS, SIGNS, SIDEWALKS, CURB AND GUTTERS, CATCH BASINS, PIPE ENDS, AND OTHER STRUCTURES AS NECESSARY TO PREVENT DISCOLORATION BEFORE SPRAYING HECPS, ORGANIC OR CHEMICAL TACKIFIERS.

SLOPE INTERRUPTION DEVICES

THE MAXIMUM ALLOWABLE CONTINUOUS SLOPE LENGTH FOR STRAW OR HAY MULCH, HECPS, COMPOST AND ECB APPLICATIONS IS 50 FEET. SLOPE INTERRUPTION DEVICES (SUCH AS SEDIMENT TUBES) OR TRMS ARE REQUIRED FOR CONTINUOUS SLOPE LENGTH LONGER THAN 50 FEET.

ENSURE THAT ALL SEED, SOD, FAST ACTING LIME, BIOLOGICAL GROWTH STIMULANTS, AGRICULTURAL GRANULAR LIME, GRANULAR FERTILIZER, STRAW AND HAY MULCH, HECPS, COMPOST MULCH, AND ECBS ARE APPLIED AS SPECIFIED. THE DESIGN ENGINEER OR LANDSCAPE ARCHITECT, OR MEMBER OF THE DESIGN ENGINEER OR LANDSCAPE ARCHITECT STAFF MUST DOCUMENT ON-SITE THAT THESE MATERIALS ARE APPLIED CORRECTLY BY COMPLETING AND SIGNING PROPER FORMS.

PERFORM ALL MAINTENANCE NECESSARY TO KEEP STABILIZATION AREAS IN A SATISFACTORY CONDITION UNTIL THE WORK IS FINALLY ACCEPTED. THIS INCLUDES MOWING, REPAIRING AREAS OF EROSION AND WASHES, AND APPLYING ADDITIONAL SEED, FERTILIZER, AND MULCH TO AREAS WHERE A SATISFACTORY STAND OF GRASS HAS

MOW ROAD SHOULDERS AND MEDIANS WHEN VEGETATION REACHES A HEIGHT OF APPROXIMATELY 18 TO 24 INCHES. DO NOT PERFORM EXCESSIVE MOWING OF SLOPES RESULTING IN RUTS, FURROWS OR GROOVES. DO NOT PERFORM EXCESSIVE MOWING OF SLOPES THAT INHIBITS THE ESTABLISHMENT OF THE SLOPE VEGETATION. DO NOT PERFORM MOWING WHEN SOIL AND WEATHER CONDITIONS ARE SUCH THAT RUTTING OR OTHER DAMAGE TO THE PROJECT MAY

ENSURE MOWING RESULTS IN A UNIFORM VEGETATION HEIGHT OF 4 TO 6 INCHES, UNLESS OTHERWISE DIRECTED. UTILIZING A NURSE CROP FOR PERMANENT SEEDING, MOW MILLET (NO LOWER THAN 3 INCHES) ONCE REACHES A HEIGHT OF 18 INCHES TO REDUCE COMPETITIVENESS WITH THE PERMANENT VEGETATION. MOW WHEAT AND RYE GRAIN (NO LOWER THAN 3 INCHES) ONCE THEY REACH A HEIGHT OF 6-8 INCHES TO REDUCE COMPETITIVENESS WITH PERMANENT VEGETATION

INITIATE SOD APPLICATIONS WITHIN 7 CALENDAR DAYS WHERE LAND DISTURBING ACTIVITIES HAVE PERMANENTLY CEASED ON THE PROJECT. INITIATE SOD APPLICATIONS MEASURES AS SOON AS PRACTICABLE FOR AREAS WHERE INITIATING SOD APPLICATIONS WITHIN 7 DAYS IS INFEASIBLE (E.G., WHERE SNOW COVER, FROZEN GROUND, OR DROUGHT CONDITIONS PRECLUDE STABILIZATION). USE SOD ON

ACCEPTANCE OF SOD ACCEPTANCE IS CONTINGENT ON ESTABLISHING A SATISFACTORY STAND OF PERENNIAL GRASS. SOD APPLICATION AREAS ARE ACCEPTABLE WHEN ALL REQUIREMENTS INCLUDING MAINTENANCE ARE MET AND A HEALTHY, EVENLY COLORED, VIABLE STAND OF GRASS IS ESTABLISHED. A SATISFACTORY STAND OF GRASS MUST HAVE A ROOT SYSTEM THAT IS SUFFICIENT TO SURVIVE DRY PERIODS AND

WINTER WEATHER AND IS CAPABLE OF RE --ESTABLISHING IN THE SPRING.

DO NOT USE SODDING ON SLOPES STEEPER THAN 2H: IV. AND IF SODDING IS MOWED. DO NOT PLACE ON SLOPES GREATER THAN 3H: IV. INSTALL WARM SEASON SOD BETWEEN MARCH 1ST AND SEPTEMBER 1ST. INSTALL COOL SEASON SOD ANYTIME DURING THE YEAR AS LONG AS THE SOIL IS NOT FROZEN. DO NOT PLACE SOD ON: THE SUIL IS NOT FROZEN. DO NOT PLACE SOD ON:
SOIL THAT IS FROZEN AND/OR WHEN THE 10-DAY FORECASTED LOW TEMPERATURE REMAINS BELOW 35 DEGREES FAHRENHEIT;
SOIL THAT IS EXCESSIVELY WET;
SOIL THAT IS EXCESSIVELY PREVIOUS OF HEAT OR DROUGHT) UNLESS WATERING IS SPECIFIED;
SOIL THAT IS COMPOSED OF COMPACTED C LAY; AND
SOIL THAN HAS BEEN TREATED WITH PESTICIDES.

SOD BED PREPARATION

ENSURE THE SOD BED IS UNIFORM AND CONFORMS TO THE FINISHED GRADE OF THE PROJECT.

LOOSEN THE SOD BED TO 0 MINIMUM DEPTH OF 3 INCHES BEFORE PLACING SOD.

FURNISH AND PLACE TOPSOIL OR COMPOST IN THE SOD BED IN AREAS WHERE THE EXISTING SOD BED HAS LITTLE OR NO TOPSOIL,

LAY SOD WHEN SOD BED IS MOIST. MOISTEN DRY SOD BEDS BEFORE SOD IS LAID. SOD MATERIAL

PROVIDE SOD WITH LIVING, WELL -- ESTABLISHED GROWTH, WITH A DENSE ROOT MAT OF PREDOMINANT GRASS SPECIFIED. PROVIDE VIGOROUS, WELL ROOTED, HEALTHY TURF, FREE FROM DISEASE, INSECT PESTS, WEEDS, OTHER GR ASSES, STONES, AND ANY OTHER HARMFUL OR DETRIMENTAL MATERIALS.

ENSURE SOD IS NOT INSTALLED UNTIL THE END OF THE PROJECT OR WHEN FINAL STABILIZATION IS ACHIEVED ON ADJACENT AREAS OF THE PROJECT THAT DRAIN OR DISCHARGE TO THE SOD APPLICATION.

GRASSING NOTES:

1. ON ANY PORTION OF THE SITE WHERE CONSTRUCTION HAS TEMPORARILY OR PERMANENTLY CEASED, ALL DISTURBED AREAS SHALL BE STABILIZED WITH GRASS AS SOON AS PRACTICAL, BUT NOT EXCEEDING FOURTEEN (14) DAYS AFTER WORK HAS CEASED. TEMPORARY GRASS SHALL BE APPLIED IN AREAS WHERE FUTURE CONSTRUCTION WILL RE-DISTURB THIS AREA, OTHERWISE, PERMANENT GRASS SHALL BE APPLIED.

2. IN ANY AREA IN WHICH TEMPORARY GRASS HAS BEEN APPLIED, THE GRASS SHALL BE MOWED AND THE SEED BED RE-SCARIFIED BEFORE PERMANENT GRASS APPLICATION.

3. BEFORE PERMANENT GRASS SEEDING IS PERFORMED, THE ENGINEER/ OWNER SHALL BE NOTIFIED FOR AN ON SITE INSPECTION OF THE PREPARED SEED BED AND FOR AN INSPECTION OF THE QUANTITIES OF MATERIAL TO BE APPLIED. CALL (864) 582-0585 TO SCHEDULE AN INSPECTION. ANY PROPOSED MODIFICATIONS TO THE GRASSING SPECIFICATIONS AND/OR METHODOLOGY SHOULD BE SUBMITTED TO THE ENGINEER WELL IN ADVANCE OF GRASSING ACTIVITIES. MODIFICATIONS MAY OR MAY NOT BE APPROVED.

4. THE CONTRACTOR SHALL PROVIDE A CERTIFIED LETTER INDICATING THE QUANTITIES OF MATERIAL APPLIED PER ACRE.

5. BEFORE ACCEPTANCE OF THE SEEDING PERFORMED FOR THE ESTABLISHMENT OF PERMANENT VEGETATION, THE CONTRACTOR WILL BE REQUIRED TO PRODUCE A UNIFORM VEGETATIVE COVER WITH A DENSITY OF 80% OF THE SEEDED AREA.

6. PERMANENT GRASS SHALL BE PROVIDED FOR ALL DISTURBED AREAS WITH THE FOLLOWING A. LIME SHALL BE AGRICULTURAL GRADE GROUND LIMESTONE CONTAINING LEAST 34%

- MAGNESIUM CARBONATE. B. SEED SHALL BE A MINIMUM 90 % PURITY AND 80 % GERMINATION. C. AREAS TO HAVE GRASS APPLIED SHALL BE SCARIFIED CULTIVATED TO A DEPTH OF 3 INCHES. WITH ALL CLODS OR CLUMPS GREATER THAN 3" BROKEN UP AND FOREIGN
- MATERIAL INCLUDING ROCK, ROOTS, AND MISC. DEBRIS REMOVED. D. FERTILIZER AND LIME SHALL BE THOROUGHLY WORKED INTO THE SOIL, AND THE SURFACE RAKED SMOOTH BEFORE APPLYING SEED. E. SEED SHALL BE APPLIED EVENLY AT THE MINIMUM RATE AND RAKED IN LIGHTLY WITH
- APPROXIMATELY 1/4" TOPSOIL COVER. SEEDED AREAS SHALL BE DRESSED SMOOTH, THEN MULCH (STRAW) SHALL BE APPLIED MECHANICALLY. F. AREAS SHALL BE SPRAYED IMMEDIATELY WITH AN EMULSION TO BIND SEED AND MULCH. 7. THE CONTRACTOR SHALL BE REQUIRED TO PROVIDE ALL MAINTENANCE NECESSARY TO KEEP

MULCH APPLIED TO AREAS WHERE A SATISFACTORY STAND OF GRASS HAS NOT BEEN ACHIEVED. ALL COSTS INCLUDING IRRIGATING AND MOWING TO BE INCLUDED IN BASE BID PRICE. 8. PAYMENT TO THE CONTRACTOR SHALL NOT EXCEED 75 % OF THE CONTRACT PRICE FOR GRASS

SEEDED AREAS IN SATISFACTORY CONDITION UNTIL THE WORK IS ACCEPTED. THIS INCLUDES

UNTIL A SATISFACTORY STAND OF PERMANENT GRASS HAS BEEN OBTAINED.

MOWING, IRRIGATING, REPAIRING OF EROSION WASHES, AND ADDITIONAL SEED, FERTILIZER AND

9. CONTRACTOR IS RESPONSIBLE FOR PROVIDING A STAND OF GRASS WITH A ROOT SYSTEM THAT HAS DEVELOPED SUFFICIENTLY TO SURVIVE DRY PERIODS AND WINTER WEATHER AND BE CAPABLE OF RE-ESTABLISHMENT IN THE SPRING. THE CONTRACTOR SHALL WARRANTY ALL GRASS FOR A PERIOD OF 1 YEAR BEGINNING FROM THE DATE OF ACCEPTANCE BY THE OWNER/ENGINEER.

10. ALL COSTS FOR PROVIDING AN ACCEPTABLE STAND OF GRASS (PERMANENT & TEMPORARY SEEDINGS) SHALL BE INCLUDED IN BASE BID (INCLUDING TEMPORARY IRRIGATION IF REQUIRED). NO ADDITIONAL CHARGES WILL BE HONORED FOR REPAIRS DUE TO WEATHER OR OTHER REASONS. THE CONTRACTOR SHALL ACCEPT RESPONSIBILITY AND COSTS FOR PROVIDING AN ACCEPTABLE

11. UPON PROVIDING A STAND OR GRASS (PERMANENT) THE CONTRACTOR SHALL MECHANICALLY MOW (A MINIMUM OF 2 TIMES) AT THE GRASS TYPE RECOMMENDED HEIGHT.

AREAS TO BE SEEDED SHALL BE RIPPED OR TILLED AND SPREAD WITH AVAILABLE TOPSOIL 4" DEEP. TOTAL SEEDBED PREPARED DEPTH SHALL BE 6".

ROCKS, ROOTS AND OTHER OBSTRUCTIONS AND CONSTRUCTION DEBRIS SHALL BE REMOVED FROM THE SURFACE OF THE SEEDBED. SURFACE OF COMPLETED PREPARED SEEDBED SHALL BE LOOSE SMOOTH AND UNIFORM, AND IN A MOWABLE CONDITION

SUITABLE FOR RESIDENTIAL GRADE EQUIPMENT. CONTRACTOR SHALL TILL DISC AND/OR HARROW IF CONTRACTOR SHALL TILL, DISC AND/OR HARROW IF NECESSARY TO ACHIEVE THIS.

IF SOIL TEST IS TAKEN, APPLY FERTILIZER AND LIME IN ACCORDANCE W/SOIL TEST

LIME AND FERTILIZER SHALL BE APPLIED UNIFORMLY AND MIXED WITH THE SOIL DURING SEEDBED

IF NO SOIL TEST IS TAKEN, FERTILIZER AND LIME SHALL BE APPLIED ACCORDING TO THE SEEDING

CONTRACTOR SHALL STABILIZE ALL NON-PAVED DENUDED SURFACES USING HYDRAULICALLY APPLIED FLEXTERRA FGM IMMEDIATELY AFTER FINISH GRADING AND PRIOR TO FIRST RAINFALL THEREAFTER. STRICTLY COMPLY WITH MANUFACTURER'S INSTALLATION INSTRUCTIONS AND APPLICATION RATES.

TEMPORARY GRASSING SCHEDULE TEMPORARY GRASS JAN 1 - MAY 1

COMMON NAME PLANTING RATE RYE (GRAIN) 75 LB/ACRE ANNUAL LESPEDEZA 50 LB/ACRE MULCH (STRAW) 4000 LB/ACRE AGRICULTURAL LIMESTONE 3000 LB/ACRE FERTILIZER 17-17-17 500 LB/ACRE

TEMPORARY GRASS MAY 1 - MAY 15

COMMON NAME	PLANTING RATE
GERMAN MILLET	75 LB/ACRE
MULCH (STRAW)	4000 LB/ACRE
AGRICULTURAL LIMESTONE	3000 LB/ACRE
FERTILIZER 17-17-17	500 LB/ACRE

TEMPORARY GRASS AUG 15 - DEC 30

COMMON NAME	PLANTING RATE
RYE (GRAIN)	75 LB/ACRE
MULCH (STRAW)	4000 LB/ACRE
AGRICULTURAL LIMESTONE	3000 LB/ACRE
FERTILIZER 17-17-17	500 LB/ACRE

PERMANENT GRASSING SCHEDULE

COMMON NAME	PLANTING RATE	JAN	FEB	MAR	APR	MAY	N N	亅	AUG	SEP	OCT	
COMMON BERMUDA GRASS WITHOUT HULLS	125 LBS/ACRE				0	•	•	•	•			
WHITE CLOVER	30 LBS/ACRE				•	•	•	•	•			
BROWN TOP MILLET	15 LBS/ACRE				•	•	0	•	•			
FERTILIZER 17-17-17	500 LBS/ACRE	•	•	•	•	•	•	•	•	•	•	a
AGRICULTURE LIMESTONE	3000 LBS/ACRE	•	•	•	•	•	•	•	•	•	•	0
TALL FESCUE (KY-31)	250 LBS/ACRE	•	•	•	•					•	•	•
COMMON BERMUDA GRASS WITH HULLS	75 LBS/ACRE	•	•	•	•					•	•	•
WHITE CLOVER	15 LBS/ACRE	•	•	•	•					•	•	•
CRIMSON CLOVER	15 LBS/ACRE	•	•	•	•					•	•	•
PERENNIAL RYE GRASS	30 LBS/ACRE	•	•	•	•					•	•	•
FERTILIZER 17-17-17	500 LBS/ACRE	•	•	•	•	•	•	•	•	•	•	đ
AGRICULTURE LIMESTONE	3000 LBS/ACRE	•	•	•	•	•	•	•	•	•	•	•

LOVEGRASS TO SEED MIX

ALL DISTURBED AREAS NOT RECEIVING SHALL RECEIVE HYDRAULICALLY APPLIED FLEXTERRA FGM IMMEDIATELY AFTER FINISHING GRADING AND PRIOR TO FIRST RAINFALL EVENT. APPLICATION AND INSTALLATION OF FLEXTERRA SHALL STRICTLY COMPLY WITH MANUFACTURERS RECOMMENDATIONS.

ALL SLOPES 3:1 OR GREATER SHALL RECEIVE MATTING AND FLEXTERRA FGM.

MULCH APPLICATION TABLE

MULCH	APPLICABLE SLOPE (H:V) ¹	MINIMUM APPLICATION RATE (LBS/ACRE-DRY) ²
WOOD CHIPS	≤ 4:1	500 CY/ACRE
STRAW OR HAY WITH TACKIFIER	≤ 4:1	2,000
HECP TYPE 1	≤ 4:1	2,000
HECP TYPE 2	4:1 < S ≤ 3:1	2,500
HECP TYPE 3	3:1 < S ≤ 2:1	3,000
HECP TYPE 4	2:1 < S ≤ 1:1	3,500
I TECH I THE 4	>1:1	4,000 (TEMP COVER ONLY) ³
COMPOST MULCH	≤ 4:1	200 CY/ACRE

IS 50 FEET. SLOPE INTERRUPTION DEVISES OR TRMS ARE REQUIRED FOR CONTINUOUS SLOPE LENGTH LONGER THAN 50 FEET STRICTLY COMPLY WITH THE MANUFACTURER'S MIXING RECOMMENDATION FOR THE ACTUAL SLOPE STEEPNESS AND THE ACTUAL CONTINUOUS SLOPE LENGTH OF THE HECP TYPE 4 MAY BE USED FOR PERMANENT COVER APPLICATIONS ON SLOPES 1:1 OR GREATER AT A MINIMUM RATE OF 4,500 POUNDS PER ACRE

ECB AND TRM APPLICATION TABLE

ECB/TRM TYPE ¹	SLOPE (H:V) ²	MINIMUM SLOPE LENGTH (FT)
TEMPORARY ECB OR TYPE 1 TRM	≤ 2:1	5
TYPE 2 TRM	≤ 1.5:1	5
TYPE 3 TRM	≤ 1:1	5

STRICTLY COMPLY WITH THE MANUFACTURER'S SPECIFICATION THE MAXIMUM ALLOWABLE CONTINUOUS SLOPE LENGTH FOR ECBs IS 50 ET. SLOPE INTERRUPTION DEVICES OR TRMs ARE REQUIRED FOR NTINUOUS SLOPE LENGTH LONGER THAN 50 FEE

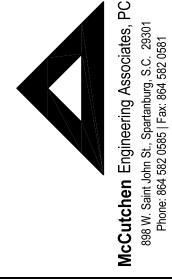
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Sheet

Revisions

GRASSING NOTES

SPARTANBUR





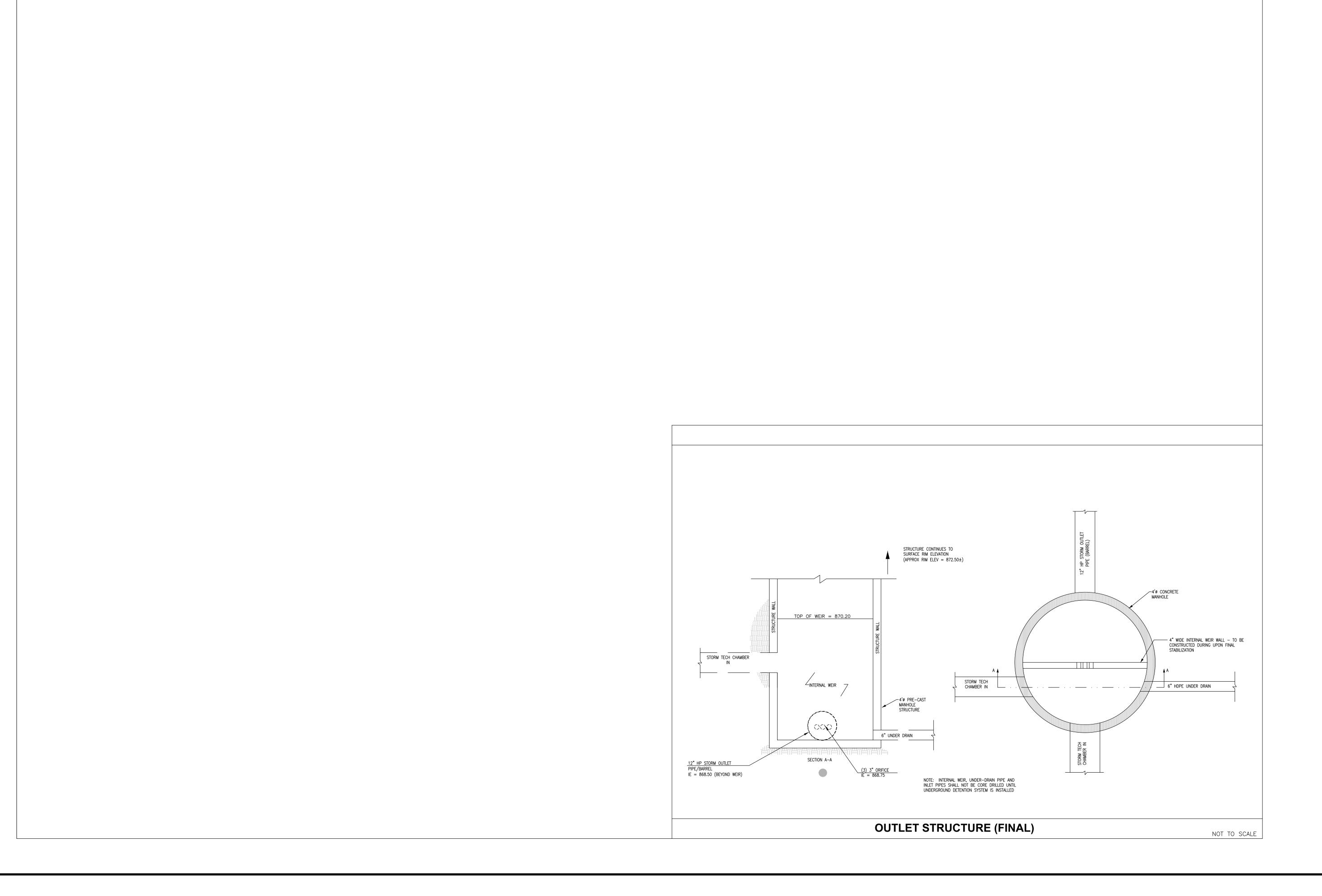


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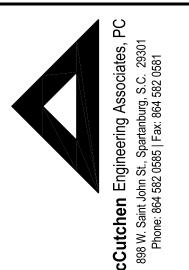
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Engineer Drawn By WGW Date **APRIL 2021**

A ISSUE FOR PERMIT REVIEW 04.14.2













STORMWATER MANAGEMENT POND NOTES AND DETAILS

SPARTANBURG SCHOOL DISTRICT 2
HENDRIX ELEMENTARY PARKING LOT
1084 SPRINGFIELD ROAD, BOILING SPRINGS, SPARTANBURG COUNTY

Engineer
JDM
Drawn By
WGW
Date
APRIL 2021

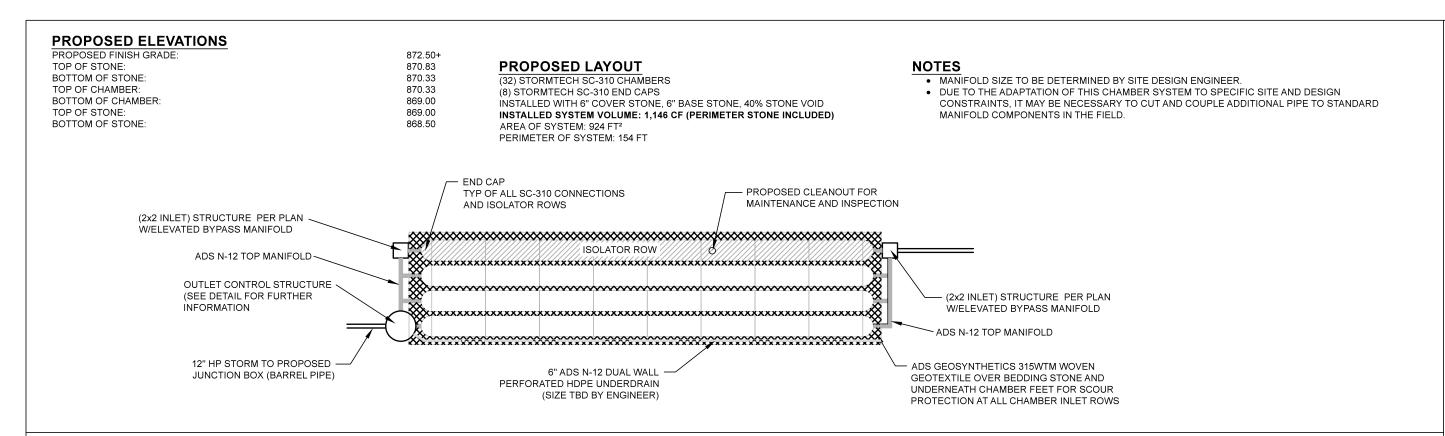
Revisions

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UNDER-GROUND STORM MANAGEMENT POND LAYOUT

USC-310 STORMTECH CHAMBER SPECIFICATIONS

- CHAMBERS SHALL BE ARCH-SHAPED AND SHALL BE MANUFACTURED FROM VIRGIN,
- IMPACT-MODIFIED POLYPROPYLENE OR POLYETHYLENE COPOLYMERS. CHAMBERS SHALL MEET THE REQUIREMENTS OF ASTM F2922 (POLETHYLENE) OR ASTM F2418-16a (POLYPROPYLENE), "STANDARD SPECIFICATION FOR CORRUGATED WALL STORMWATER COLLECTION CHAMBERS"
- 4. CHAMBER ROWS SHALL PROVIDE CONTINUOUS, UNOBSTRUCTED INTERNAL SPACE WITH NO INTERNAL SUPPORTS THAT WOULD IMPEDE FLOW OR LIMIT ACCESS FOR INSPECTION. THE STRUCTURAL DESIGN OF THE CHAMBERS, THE STRUCTURAL BACKFILL, AND THE INSTALLATION REQUIREMENTS SHALL ENSURE THAT THE LOAD FACTORS SPECIFIED IN THE AASHTO LRFD BRIDGE DESIGN SPECIFICATIONS, SECTION 12.12, ARE MET FOR: 1)
- LONG-DURATION DEAD LOADS AND 2) SHORT-DURATION LIVE LOADS. BASED ON THE AASHTO DESIGN TRUCK WITH CONSIDERATION FOR IMPACT AND MULTIPLE VEHICLE PRESENCES. 6. CHAMBERS SHALL BE DESIGNED, TESTED AND ALLOWABLE LOAD CONFIGURATIONS DETERMINED IN ACCORDANCE WITH ASTM F2787, "STANDARD PRACTICE FOR STRUCTURAL DESIGN OF THERMOPLASTIC CORRUGATED WALL STORMWATER COLLECTION CHAMBERS LOAD CONFIGURATIONS SHALL INCLUDE: 1) INSTANTANEOUS (<1 MIN) AASHTO DESIGN TRUCK
- LIVE LOAD ON MINIMUM COVER 2) MAXIMUM PERMANENT (75-YR) COVER LOAD AND 3) ALLOWABLE COVER WITH PARKED (1-WEEK) AASHTO DESIGN TRUCK. 7. REQUIREMENTS FOR HANDLING AND INSTALLATION:

DESIGN SPECIFICATIONS FOR THERMOPI ASTIC PIPE.

STORMTECH HIGHLY

ELEVATED BYPASS

SUMP DEPTH TBD BY

SITE DESIGN ENGINEER (24" [600 mm] MIN RECOMMENDED)

MANIFOLD

RECOMMENDS FLEXSTORM INSERTS IN ANY UPSTREAM STRUCTURES WITH OPEN

- TO MAINTAIN THE WIDTH OF CHAMBERS DURING SHIPPING AND HANDLING, CHAMBERS SHALL HAVE INTEGRAL, INTERLOCKING STACKING LUGS. TO ENSURE A SECURE JOINT DURING INSTALLATION AND BACKFILL, THE HEIGHT OF THE
- CHAMBER JOINT SHALL NOT BE LESS THAN 2". TO ENSURE THE INTEGRITY OF THE ARCH SHAPE DURING INSTALLATION, a) THE ARCH STIFFNESS CONSTANT AS DEFINED IN SECTION 6.2.8 OF ASTM F2922 SHALL BE GREATER THAN OR EQUAL TO 400 LBS/IN/IN. AND b) TO RESIST CHAMBER DEFORMATION DURING INSTALLATION AT ELEVATED TEMPÉRATURES (ABOVE 73° F / 23° C), CHAMBERS SHALL BE PRODUCED FROM REFLECTIVE GOLD OR YELLOW COLORS.
- 8. ONLY CHAMBERS THAT ARE APPROVED BY THE SITE DESIGN ENGINEER WILL BE ALLOWED. UPON REQUEST BY THE SITE DESIGN ENGINEER OR OWNER, THE CHAMBER MANUFACTURER SHALL SUBMIT A STRUCTURAL EVALUATION FOR APPROVAL BEFORE DELIVERING CHAMBERS TO THE PROJECT SITE AS FOLLOWS:
- THE STRUCTURAL EVALUATION SHALL BE SEALED BY A REGISTERED PROFESSIONAL ENGINEER. THE STRUCTURAL EVALUATION SHALL DEMONSTRATE THAT THE SAFETY FACTORS ARE GREATER THAN OR EQUAL TO 1.95 FOR DEAD LOAD AND 1.75 FOR LIVE LOAD, THE MINIMUM REQUIRED BY ASTM F2787 AND BY SECTIONS 3 AND 12.12 OF THE AASHTO LRFD BRIDGE
- THE TEST DERIVED CREEP MODULUS AS SPECIFIED IN ASTM F2922 SHALL BE USED FOR PERMANENT DEAD LOAD DESIGN EXCEPT THAT IT SHALL BE THE 75-YEAR MODULUS USED FOR
- 9. CHAMBERS AND END CAPS SHALL BE PRODUCED AT AN ISO 9001 CERTIFIED MANUFACTURING

NYLOPLAS

$\underline{\mathsf{IMPORTANT}} \text{-} \mathsf{NOTES} \text{ FOR THE BIDDING AND INSTALLATION OF THE SC-310 SYSTEM}$

- STORMTECH SC-310 CHAMBERS SHALL NOT BE INSTALLED UNTIL THE MANUFACTURER'S REPRESENTATIVE HAS
- COMPLETED A PRE-CONSTRUCTION MEETING WITH THE INSTALLERS. STORMTECH SC-310 CHAMBERS SHALL BE INSTALLED IN ACCORDANCE WITH THE "STORMTECH
- SC-310/SC-740/DC-780 CONSTRUCTION GUIDE" CHAMBERS ARE NOT TO BE BACKFILLED WITH A DOZER OR AN EXCAVATOR SITUATED OVER THE CHAMBERS STORMTECH RECOMMENDS 3 BACKFILL METHODS:
- STONESHOOTER LOCATED OFF THE CHAMBER BED. BACKFILL AS ROWS ARE BUILT USING AN EXCAVATOR ON THE FOUNDATION STONE OR SUBGRADE. BACKFILL FROM OUTSIDE THE EXCAVATION USING A LONG BOOM HOE OR EXCAVATOR.
- THE FOUNDATION STONE SHALL BE LEVELED AND COMPACTED PRIOR TO PLACING CHAMBERS. JOINTS BETWEEN CHAMBERS SHALL BE PROPERLY SEATED PRIOR TO PLACING STONE.
- MAINTAIN MINIMUM 6" (150 mm) SPACING BETWEEN THE CHAMBER ROWS. EMBEDMENT STONE SURROUNDING CHAMBERS MUST BE A CLEAN, CRUSHED, ANGULAR STONE 3/4-2" (20-50 mm). THE CONTRACTOR MUST REPORT ANY DISCREPANCIES WITH CHAMBER FOUNDATION MATERIALS BEARING
- CAPACITIES TO THE SITE DESIGN ENGINEER. ADS RECOMMENDS THE USE OF "FLEXSTORM CATCH IT" INSERTS DURING CONSTRUCTION FOR ALL INLETS TO PROTECT THE SUBSURFACE STORMWATER MANAGEMENT SYSTEM FROM CONSTRUCTION SITE RUNOFF.

GENERAL NOTES FOR STORMTECH SYSTEM

COVER ENTIRE ISOLATOR ROW PLUS WITH -ADS GEOSYNTHETICS 601T NON-WOVEN

GEOTEXTILE 5' (1.5 m) MIN WIDE

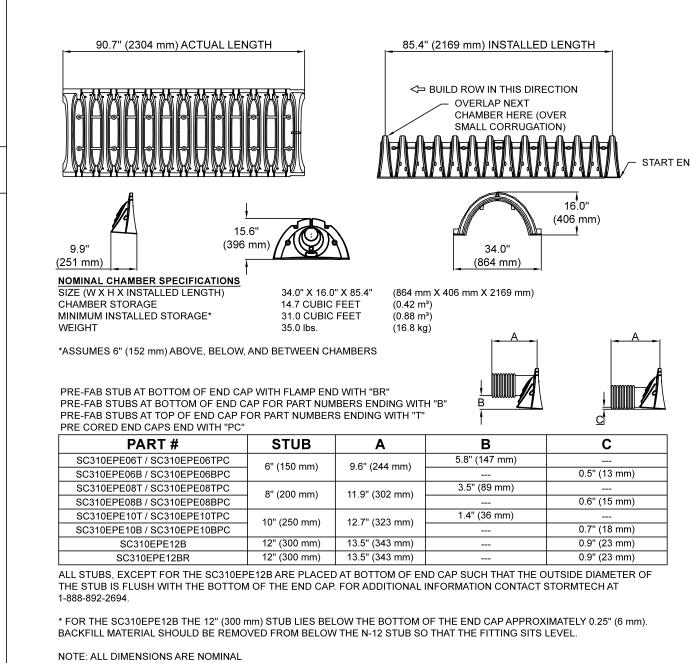
12" (300 mm) HDPE ACCESS PIPE REQUIRED

USE FACTORY PRE-FABRICATED END CAP

WITH FLAMP PART #: SC310EPE12BR

- STORMTECH SC-310 CHAMBERS SHALL BE INSTALLED IN ACCORDANCE WITH THE "STORMTECH SC-310/SC-740/DC-780 CONSTRUCTION GUIDE".
- 2. THE USE OF CONSTRUCTION EQUIPMENT OVER SC-310 & SC-740 CHAMBERS IS LIMITED:
- NO EQUIPMENT IS ALLOWED ON BARE CHAMBERS.
- NO RUBBER TIRED LOADERS, DUMP TRUCKS, OR EXCAVATORS ARE ALLOWED UNTIL PROPER FILL DEPTHS ARE REACHED IN ACCORDANCE WITH THE "STORMTECH SC-310/SC-740/DC-780 CONSTRUCTION GUIDE". · WEIGHT LIMITS FOR CONSTRUCTION EQUIPMENT CAN BE FOUND IN THE "STORMTECH SC-310/SC-740/DC-780 CONSTRUCTION
- 3. FULL 36" (900 mm) OF STABILIZED COVER MATERIALS OVER THE CHAMBERS IS REQUIRED FOR DUMP TRUCK TRAVEL OR DUMPING. USE OF A DOZER TO PUSH EMBEDMENT STONE BETWEEN THE ROWS OF CHAMBERS MAY CAUSE DAMAGE TO THE CHAMBERS AND IS NOT AN ACCEPTABLE BACKFILL METHOD. ANY CHAMBERS DAMAGED BY THE "DUMP AND PUSH" METHOD ARE NOT COVERED UNDER THE STORMTECH STANDARD WARRANTY. CONTACT STORMTECH AT 1-888-892-2694 WITH ANY QUESTIONS ON INSTALLATION REQUIREMENTS OR WEIGHT LIMITS FOR CONSTRUCTION EQUIPMENT

END CAP FOUNDATION STONE BENEATH CHAMBERS NON-WOVEN GEOTEXTILE DUAL WALL PERFORATED FOUNDATION STONE BENEATH CHAMBERS ADS GEOSYNTHETICS 601 NUMBER AND SIZE OF UNDERDRAINS PER SITE DESIGN ENGINEER 4" (100 mm) TYP FOR SC-310 & SC-160LP SYSTEMS SECTION B-B 6" (150 mm) TYP FOR SC-740, DC-780, MC-3500 & MC-4500 SYSTEMS **UNDERDRAIN DETAIL** DO NOT INSTALI **INSERTA-TEE AT** CHAMBER JOINTS CONVEYANCE PIPE MATERIAL MAY VARY (PVC, HDPE, ETC.) INSERTA TEE CONNECTION INSERTA TEE TO BE INSTALLED, CENTERED OVER CORRUGATION PLACE ADSPLUS WOVEN GEOTEXTILE (CENTERED ON INSERTA-TEE INLET) OVER SECTION A-A SIDE VIEW BEDDING STONE FOR SCOUR PROTECTION AT SIDE INLET CONNECTIONS. GEOTEXTILE MUST EXTEND 6" (150 mm) PAST CHAMBER MAX DIAMETER OF HEIGHT FROM BASE OF CHAMBER CHAMBER (X) INSERTA TEE 4" (100 mm) SC-310 6" (150 mm) SC-740 10" (250 mm) 4" (100 mm) DC-780 10" (250 mm) 4" (100 mm) 6" (150 mm) 12" (300 mm) 12" (300 mm) 8" (200 mm) PART NUMBERS WILL VARY BASED ON INLET PIPE MATERIALS. INSERTA TEE FITTINGS AVAILABLE FOR SDR 26, SDR 35, SCH 40 IPS CONTACT STORMTECH FOR MORE INFORMATION. GASKETED & SOLVENT WELD, N-12, HP STORM, C-900 OR DUCTILE IRON



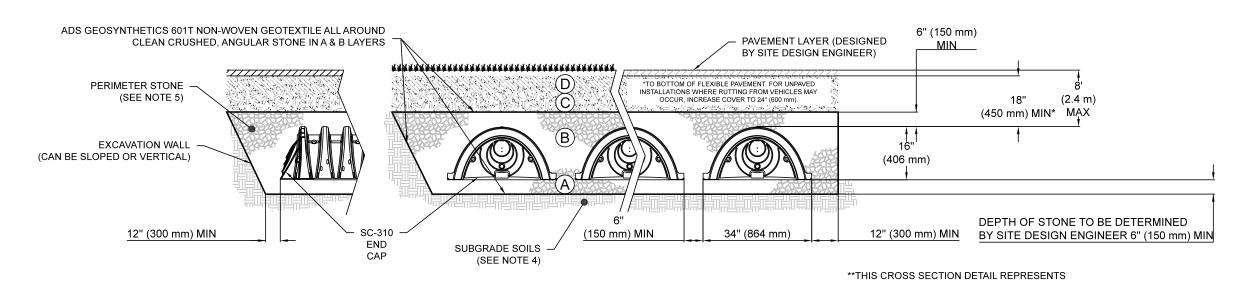
INSERTA-TEE SIDE INLET DETAIL

SC-310 TECHNICAL SPECIFICATIONS

ACCEPTABLE FILL MATERIALS: STORMTECH SC-310 CHAMBER SYSTEMS

	MATERIAL LOCATION	DESCRIPTION	AASHTO MATERIAL CLASSIFICATIONS	COMPACTION / DENSITY REQUIREMENT	
D	FINAL FILL: FILL MATERIAL FOR LAYER 'D' STARTS FROM THE TOP OF THE 'C' LAYER TO THE BOTTOM OF FLEXIBLE PAVEMENT OR UNPAVED FINISHED GRADE ABOVE. NOTE THAT PAVEMENT SUBBASE MAY BE PART OF THE 'D' LAYER.	YER TO THE BOTTOM OF FLEXIBLE PAVEMENT OR FINISHED GRADE ABOVE. NOTE THAT PAVEMENT SUBBASE ANY SOIL/ROCK MATERIALS, NATIVE SOILS, OR PER ENGINEER'S PLANS. CHECK PLANS FOR PAVEMENT SUBGRADE REQUIREMENTS. N/A		PREPARE PER SITE DESIGN ENGINEER'S PLANS. PAVED INSTALLATIONS MAY HAVE STRINGENT MATERIAL AND PREPARATION REQUIREMENTS.	
С	INITIAL FILL: FILL MATERIAL FOR LAYER 'C' STARTS FROM THE TOP OF THE EMBEDMENT STONE ('B' LAYER) TO 18" (450 mm) ABOVE THE TOP OF THE CHAMBER. NOTE THAT PAVEMENT SUBBASE MAY BE A PART OF THE 'C' LAYER.	GRANULAR WELL-GRADED SOIL/AGGREGATE MIXTURES, <35% FINES OR PROCESSED AGGREGATE. MOST PAVEMENT SUBBASE MATERIALS CAN BE USED IN LIEU OF THIS LAYER.	AASHTO M145 ¹ A-1, A-2-4, A-3 OR AASHTO M43 ¹ 3, 357, 4, 467, 5, 56, 57, 6, 67, 68, 7, 78, 8, 89, 9, 10	BEGIN COMPACTIONS AFTER 12" (300 mm) OF MATERIAL OVER THE CHAMBERS IS REACHED. COMPACT ADDITIONAL LAYERS IN 6" (150 mm) MAX LIFTS TO A MIN. 95% PROCTOR DENSITY FOR WELL GRADED MATERIAL AND 95% RELATIVE DENSITY FOR PROCESSED AGGREGATE MATERIALS. ROLLER GROSS VEHICLE WEIGHT NOT TO EXCEED 12,000 lbs (53 kN). DYNAMIC FORCE NOT TO EXCEED 20,000 lbs (89 kN).	
В	EMBEDMENT STONE: FILL SURROUNDING THE CHAMBERS FROM THE FOUNDATION STONE ('A' LAYER) TO THE 'C' LAYER ABOVE.	CLEAN, CRUSHED, ANGULAR STONE	AASHTO M43 ¹ 3, 357, 4, 467, 5, 56, 57	NO COMPACTION REQUIRED.	
А	FOUNDATION STONE: FILL BELOW CHAMBERS FROM THE SUBGRADE UP TO THE FOOT (BOTTOM) OF THE CHAMBER.	CLEAN, CRUSHED, ANGULAR STONE	AASHTO M43 ¹ 3, 357, 4, 467, 5, 56, 57	PLATE COMPACT OR ROLL TO ACHIEVE A FLAT SURFACE. ^{2,3}	

- THE LISTED AASHTO DESIGNATIONS ARE FOR GRADATIONS ONLY. THE STONE MUST ALSO BE CLEAN, CRUSHED, ANGULAR. FOR EXAMPLE, A SPECIFICATION FOR #4 STONE WOULD STATE: "CLEAN, CRUSHED, ANGULAR NO. 4 (AASHTO M43) STONE" STORMTECH COMPACTION REQUIREMENTS ARE MET FOR 'A' LOCATION MATERIALS WHEN PLACED AND COMPACTED IN 6" (150 mm) (MAX) LIFTS USING TWO FULL COVERAGES WITH A VIBRATORY COMPACTOR.
- WHERE INFILTRATION SURFACES MAY BE COMPROMISED BY COMPACTION, FOR STANDARD DESIGN LOAD CONDITIONS, A FLAT SURFACE MAY BE ACHIEVED BY RAKING OR DRAGGING WITHOUT COMPACTION EQUIPMENT. FOR SPECIAL LOAD DESIGNS, CONTACT STORMTECH FOR 4. ONCE LAYER 'C' IS PLACED, ANY SOIL/MATERIAL CAN BE PLACED IN LAYER 'D' UP TO THE FINISHED GRADE. MOST PAVEMENT SUBBASE SOILS CAN BE USED TO REPLACE THE MATERIAL REQUIREMENTS OF LAYER 'C' OR 'D' AT THE SITE DESIGN ENGINEER'S DISCRETION.



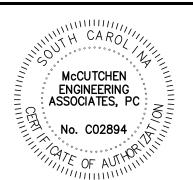
MINIMUM REQUIREMENTS FOR INSTALLATION. PLEASE SEE THE LAYOUT SHEET(S) FOR PROJECT SPECIFIC REQUIREMENTS.

- 1. CHAMBERS SHALL MEET THE REQUIREMENTS OF ASTM F2922 (POLETHYLENE) OR ASTM F2418-16a (POLYPROPYLENE), "STANDARD SPECIFICATION FOR CORRUGATED WALL STORMWATER COLLECTION
- 2. SC-310 CHAMBERS SHALL BE DESIGNED IN ACCORDANCE WITH ASTM F2787 "STANDARD PRACTICE FOR STRUCTURAL DESIGN OF THERMOPLASTIC CORRUGATED WALL STORMWATER COLLECTION
- 3. THE SITE DESIGN ENGINEER IS RESPONSIBLE FOR ASSESSING THE BEARING RESISTANCE (ALLOWABLE BEARING CAPACITY) OF THE SUBGRADE SOILS AND THE DEPTH OF FOUNDATION STONE WITH
- PERIMETER STONE MUST BE EXTENDED HORIZONTALLY TO THE EXCAVATION WALL FOR BOTH VERTICAL AND SLOPED EXCAVATION WALLS
- TO MAINTAIN THE WIDTH OF CHAMBERS DURING SHIPPING AND HANDLING, CHAMBERS SHALL HAVE INTEGRAL, INTERLOCKING STACKING LUGS. TO ENSURE A SECURE JOINT DURING INSTALLATION AND BACKFILL, THE HEIGHT OF THE CHAMBER JOINT SHALL NOT BE LESS THAN 2
- TO ENSURE THE INTEGRITY OF THE ARCH SHAPE DURING INSTALLATION, a) THE ARCH STIFFNESS CONSTANT AS DEFINED IN SECTION 6.2.8 OF ASTM F2922 SHALL BE GREATER THAN OR EQUAL TO 400 LBS/IN/IN. AND b) TO RESIST CHAMBER DEFORMATION DURING INSTALLATION AT ELEVATED TEMPERATURES (ABOVE 73° F / 23° C), CHAMBERS SHALL BE PRODUCED FROM REFLECTIVE GOLD OR

SC-310 CROSS SECTION DETAIL

SPARTANBURO







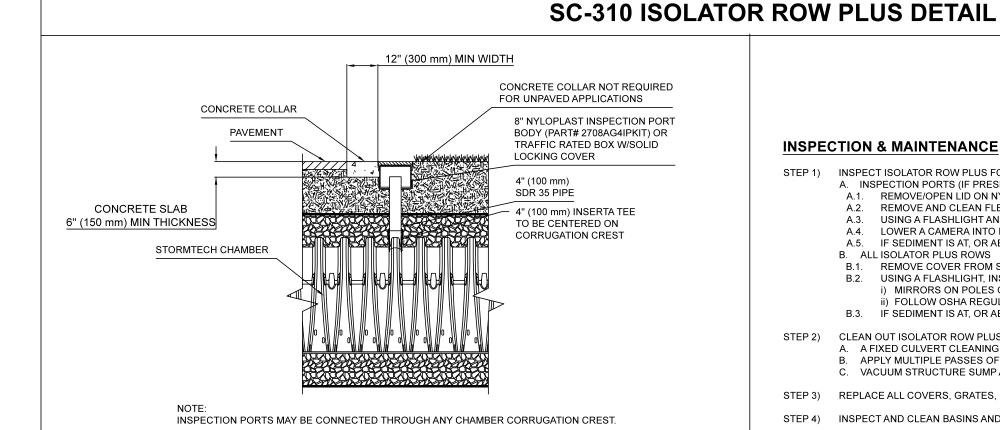
SPARTANBURG SCHOOL DISTRICT HENDRIX ELEMENTARY PARKING LO ORMWATER MANAGEMENT NOTES AND DETAILS

Drawn B **APRIL 2021** Revisions A ISSUE FOR PERMIT REVIEW 04.14.

> Project Number 21071.001

Sheet

CONSIDERATION FOR THE RANGE OF EXPECTED SOIL MOISTURE CONDITIONS



4" PVC INSPECTION PORT DETAIL

(SC SERIES CHAMBER)

INSPECTION & MAINTENANCE

- A. INSPECTION PORTS (IF PRESENT)
 - A.1. REMOVE/OPEN LID ON NYLOPLAST INLINE DRAIN REMOVE AND CLEAN FLEXSTORM FILTER IF INSTALLED
 - USING A FLASHLIGHT AND STADIA ROD, MEASURE DEPTH OF SEDIMENT AND RECORD ON MAINTENANCE LOG LOWER A CAMERA INTO ISOLATOR ROW PLUS FOR VISUAL INSPECTION OF SEDIMENT LEVELS (OPTIONAL) A.5. IF SEDIMENT IS AT, OR ABOVE, 3" (80 mm) PROCEED TO STEP 2. IF NOT, PROCEED TO STEP 3. B. ALL ISOLATOR PLUS ROWS

OPTIONAL INSPECTION PORT

ONE LAYER OF ADSPLUS125 WOVEN

STONE AND CHAMBERS

WITHOUT SEAMS

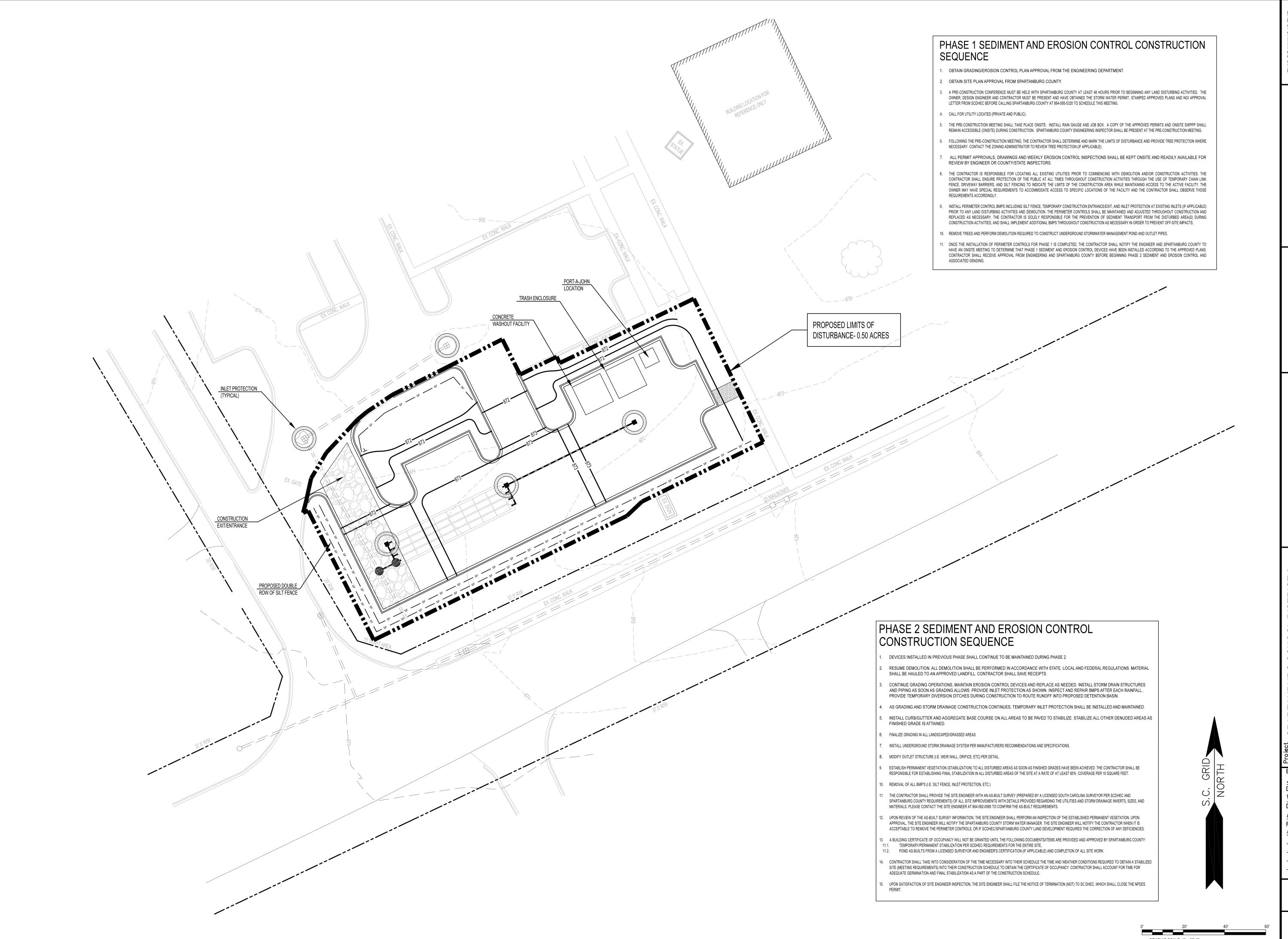
GEOTEXTILE BETWEEN FOUNDATION

4' (1.2 m) MIN WIDE CONTINUOUS FABRIC

SC-310 END CAP

- B.1. REMOVE COVER FROM STRUCTURE AT UPSTREAM END OF ISOLATOR ROW PLUS USING A FLASHLIGHT, INSPECT DOWN THE ISOLATOR ROW PLUS THROUGH OUTLET PIPE) MIRRORS ON POLES OR CAMERAS MAY BE USED TO AVOID A CONFINED SPACE ENTRY
- FOLLOW OSHA REGULATIONS FOR CONFINED SPACE ENTRY IF ENTERING MANHOLE IF SEDIMENT IS AT, OR ABOVE, 3" (80 mm) PROCEED TO STEP 2. IF NOT, PROCEED TO STEP 3 CLEAN OUT ISOLATOR ROW PLUS USING THE JETVAC PROCESS
- A. A FIXED CULVERT CLEANING NOZZLE WITH REAR FACING SPREAD OF 45" (1.1 m) OR MORE IS PREFERRED APPLY MULTIPLE PASSES OF JETVAC UNTIL BACKFLUSH WATER IS CLEAN VACUUM STRUCTURE SUMP AS REQUIRED
- STEP 3) REPLACE ALL COVERS, GRATES, FILTERS, AND LIDS; RECORD OBSERVATIONS AND ACTIONS.
- STEP 4) INSPECT AND CLEAN BASINS AND MANHOLES UPSTREAM OF THE STORMTECH SYSTEM.

- 1. INSPECT EVERY 6 MONTHS DURING THE FIRST YEAR OF OPERATION. ADJUST THE INSPECTION INTERVAL BASED ON PREVIOUS OBSERVATIONS OF SEDIMENT ACCUMULATION AND HIGH WATER ELEVATIONS.
- 2. CONDUCT JETTING AND VACTORING ANNUALLY OR WHEN INSPECTION SHOWS THAT MAINTENANCE IS NECESSARY











SPARTANBURG SCHOOL DISTRICT 2
HENDRIX ELEMENTARY PARKING LOT
1084 SPRINGFIELD ROAD, BOILING SPRINGS, SPARTANBURG COUNTY

Drawn By WGW Date

APRIL 2021 Revisions

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