

**REQUIRED STANDARD NOTES**

- 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 CONSTRUCTION. TEMPORARY BERMS MAY BE NEEDED UNTIL THE SLOPE IS BROUGHT TO GRADE.
- 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 AFTER WORK HAS CEASED, EXCEPT AS STATED BELOW.
  - WHERE STABILIZATION BY THE 14TH DAY IS PRECLUDED BY SNOW COVER OR FROZEN GROUND CONDITIONS STABILIZATION MEASURES MUST BE INITIATED AS SOON AS PRACTICABLE.
  - 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 PORTION OF THE SITE.
- 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 INSTALLED, THE PERMITEE MUST ADDRESS THE NECESSARY REPLACEMENT OR MODIFICATION REQUIRED TO CORRECT THE BMP WITHIN 48 HOURS OF IDENTIFICATION. THE CITY OF NORTH AUGUSTA REQUIRES AN INSPECTION AFTER EVERY HALF INCH RAIN EVENT.
- 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 SEDIMENT BEFORE BEING PUMPED BACK INTO ANY WATERS OF THE STATE.
- 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 ROADWAYS FROM CONSTRUCTION AREAS AND THE GENERATION OF DUST. THE CONTRACTOR SHALL DAILY REMOVE MUD/SOIL FROM PAVEMENT, AS MAY BE REQUIRED.
- 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 OUTLETS.
- 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 CANT BE 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.
- 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 WATER MUST BE PREVENTED FROM BECOMING A POLLUTANT SOURCE IN STORM WATER DISCHARGES.
- A COPY OF THE SWPPP, INSPECTIONS 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 COMMENCEMENT OF CONSTRUCTION ACTIVITIES TO THE DATE THAT FINAL STABILIZATION IS REACHED.
- 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 DAYS.
- MINIMIZE SOIL COMPACTION AND, UNLESS INFEASIBLE, PRESERVE TOPSOIL.
- 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 PROVIDES EQUIVALENT OR BETTER TREATMENT PRIOR TO DISCHARGE.
- 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.).
- THE FOLLOWING DISCHARGES FROM SITES ARE PROHIBITED:
  - WASTEWATER FROM WASHOUT OF CONCRETE, UNLESS MANAGED BY AN APPROPRIATE CONTROL.
  - WASTEWATER FROM WASHOUT AND CLEANOUT OF STUCCO, PAINT, FORM RELEASE OILS, CURING COMPOUNDS AND OTHER CONSTRUCTION MATERIALS.
  - FUELS, OILS, OR OTHER POLLUTANTS USED IN VEHICLE AND EQUIPMENT OPERATION AND MAINTENANCE.
  - SOAPS OR SOLVENTS USED IN VEHICLE AND EQUIPMENT WASHING.
- 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 CONSTRUCTION SITE.
- 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 IMPLEMENTED AS SOON AS REASONABLY POSSIBLE.
- 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 ACRES OR MORE THIS CONFERENCE MUST BE HELD ON-SITE UNLESS THE DEPARTMENT HAS APPROVED OTHERWISE.

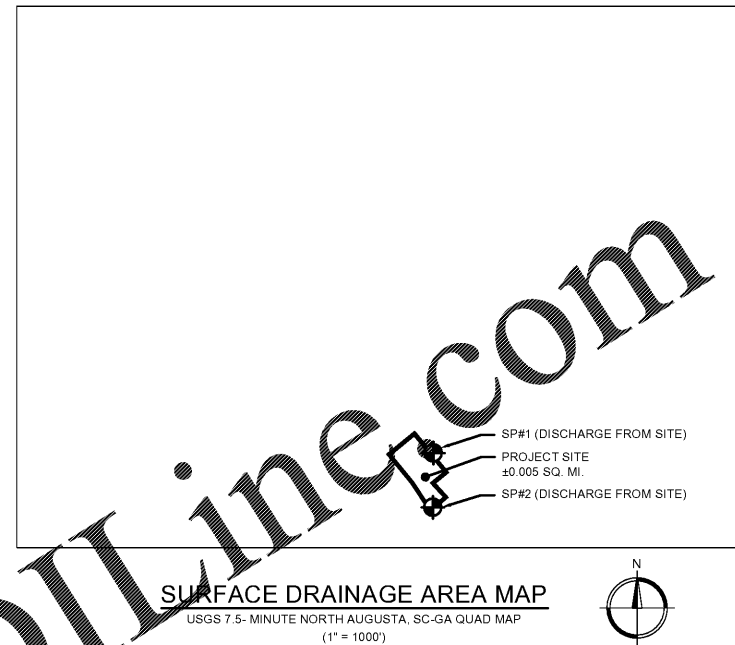
**SOIL EROSION AND SEDIMENT CONTROL NOTES**

- THE CONTRACTOR WILL COMPLETE THE STORMWATER SEDIMENT BARRIER INSTALLATION DURING THE INITIAL GRADING OPERATIONS. CONTRACTOR WILL PERIODICALLY REMOVE SILT AND SEDIMENT FROM THE BARRIERS WHEN SEDIMENT IS APPROXIMATELY 6" HIGH AT BARRIER OR AS DIRECTED BY THE ENGINEER DURING ALL PHASES OF CONSTRUCTION.
- FINAL GRADING WILL CONSIST OF SPREADING TOPSOIL TO FINISHED GRADES INDICATED ON ALL DISTURBED AREAS. 6" MIN. DEPTH ON ATHLETIC FIELDS, 4" MIN. DEPTH ON AREAS WITH SLOPES LESS THAN 3:1 AND 2" MIN. DEPTH ON AREAS WITH SLOPES GREATER THAN 3:1.
- ALL DISTURBED AREAS WILL RECEIVE PERMANENT GRASSING AND MEET PROJECT SPECIFICATIONS EVEN IF AREAS RECEIVED TEMPORARY VEGETATION DURING THE LAND DISTURBING SEQUENCE. THESE AREAS WILL BE REGRASSED WITH PERMANENT GRASSING PER PROJECT SPECIFICATIONS AND WILL BE MAINTAINED PER PROJECT SPECIFICATIONS.
- CONTRACTOR TO COORDINATE LANDSCAPE GRASSING WITH CONSTRUCTION GRASSING.
- NON-EXEMPT ACTIVITIES SHALL NOT BE CONDUCTED WITHIN THE 25 TO 50 FOOT UNDISTURBED STREAM BUFFERS AS MEASURED FROM THE POINT OF WRESTED VEGETATION WITHOUT FIRST ACQUIRING THE NECESSARY VARIANCES AND PERMITS.
- ARCHITECT MUST APPROVE GRASSING METHODS AND PROCEDURES BEFORE ANY GRASSING WORK CAN BE DONE.
- THIS PROJECT DOES NOT LIE WITHIN THE ZONE X (100-YR FLOOD PLAIN) PER FIRM PANELS 45003C0481E JUNE 2012.
- THERE ARE NO STATE WATERS PRESENT ON OR WITHIN 200 FEET OF THE PROJECT LIMITS.
- WETLANDS ARE NOT PRESENT WITHIN 200 FEET OF THE PROJECT LIMITS.
- ALL CRITICAL AREAS SUCH AS STREAM CROSSINGS, WETLANDS, CEMETERIES, ETC. ARE NOTED ON THE PLANS WITHIN THE PROJECT LIMIT.
- EROSION AND TREE PROTECTION MEASURES SHALL BE INSTALLED PRIOR TO ANY OTHER CONSTRUCTION ACTIVITY AND MAINTAINED UNTIL PERMANENT GROUND COVER IS ESTABLISHED WITHIN THE DISTURBED AREA.
- THERE ARE NO ENDANGERED SPECIES AND ARCHEOLOGICAL SITES ON OR WITHIN 200 FEET OF THE PROJECT AREA.
- INLET PROTECTION SHALL BE PROVIDED AT ALL EXISTING INLETS THAT RECEIVE FLOWS FROM THE DISTURBED AREAS.

SOILS TABLE				
MAP UNIT SYMBOL	MAP UNIT NAME	HYDROLOGIC GROUP	ACRES IN AOI	PERCENT OF AOI
ORB	ORANGEBURG LOAMY SAND, 2 TO 6 PERCENT SLOPES	B	0.0	7%
ORC	ORANGEBURG LOAMY SAND, 6 TO 10 PERCENT SLOPES	B	1.1	11%
TRF	TROUP SAND, 10 TO 25 PERCENT SLOPE	A	2.1	82%
TOTALS FOR AREA OF INTEREST			3.3	100%

**SITE MAINTENANCE NOTES**

- THE DESIGN PROFESSIONAL WHO PREPARED SWPPP SHALL INSPECT THE INSTALLATION OF THE INITIAL SEDIMENT STORAGE REQUIREMENTS AND PERIMETER CONTROL BMP'S WITHIN 7 DAYS AFTER INSTALLATION.
- ANY AMENDMENTS AND/OR REVISIONS TO THE SWPPP WHICH WILL HAVE A SIGNIFICANT EFFECT ON BMP'S WITH HYDRAULIC COMPONENTS MUST BE CERTIFIED BY THE DESIGN PROFESSIONAL.
- WASTE MATERIALS SHALL NOT BE DISCHARGED TO WATERS OF THE STATE, EXCEPT AS AUTHORIZED BY A SECTION 404 PERMIT.
- THE ESCAPE OF SEDIMENT FROM THE SITE SHALL BE PREVENTED BY THE INSTALLATION OF EROSION SEDIMENT CONTROL MEASURES AND PRACTICES PRIOR TO, OR CONCURRENT WITH LAND-DISTURBING ACTIVITIES.
- EROSION CONTROL MEASURES WILL BE MAINTAINED AT ALL TIMES. IF FULL IMPLEMENTATION OF THE APPROVED PLAN DOES NOT PROVIDE FOR EFFECTIVE EROSION CONTROL, ADDITIONAL EROSION AND SEDIMENT CONTROL MEASURES SHALL BE IMPLEMENTED TO CONTROL OR TREAT SEDIMENT SOURCE.
- ANY DISTURBED AREA LEFT EXPOSED FOR A PERIOD GREATER THAN 14 DAYS SHALL BE STABILIZED WITH MULCH OR TEMPORARY SEEDING.
- DEVELOPERS AND/OR CONTRACTORS ARE RESPONSIBLE TO REMOVE OR CLEAN OUT ANY SILT, DIRT, MUD OR ANY OTHER TYPE OF DEBRIS THAT COMES OFF THEIR SITE AND FINDS ITS WAY INTO A PRIVATE POND, ONTO PRIVATE PROPERTY, INTO A CITY/COUNTY OWNED POND OR CITY/COUNTY OWNED PROPERTY TO INCLUDE RIGHTS-OF-WAY.
- THE CONTRACTOR SHALL COMPLY WITH SCDEH REQUIREMENTS FOR WASTE DISPOSAL, SANITARY SEWER AND/OR SEPTIC TANK INCLUDING ALL TEMPORARY MEASURES DURING CONSTRUCTION AND AFTER CONSTRUCTION ACTIVITIES HAVE BEEN COMPLETED.
- LIMITS OF DISTURBANCE INCLUDES AREAS ASSOCIATED WITH THE INSTALLATION OF UTILITIES AS APPROPRIATE. FOR INSTANCES WHERE THE LOCATION OF CABLE, ELECTRIC AND/OR NATURAL GAS HAS NOT BEEN DETERMINED AT THE TIME THE SWPPP IS DEVELOPED THE INSTALLATION OF THESE UTILITIES IS TO BE WITHIN THE PERMITTED LIMITS OF DISTURBANCE. THE INSTALLATION OF SUCH UTILITIES OUTSIDE THE PERMITTED LIMITS WILL REQUIRE A MODIFICATION OF THE PERMIT AND A \$125 FEE.



**CONSTRUCTION SCHEDULE**

ITEM	DESCRIPTION	MONTHS OF CONSTRUCTION ACTIVITY					
		1	2	3	4	5	6
PHASE 1 - INITIAL PERIMETER CONTROL							
1	INSTITUTE AND MAINTAIN INSPECTION, MONITORING AND REPORTING PER NPDES REQUIREMENTS						
2	INSTALL INITIAL SEDIMENT CONTROL STRUCTURES						
3	CLEARING & GRUBBING						
PHASE 2 - INTERMEDIATE PHASE							
4	TOPSOIL STRIPPING & STOCKPILING						
5	INSTALL SEDIMENT & POLLUTION CONTROL STRUCTURES						
6	LAND GRADING						
7	CONSTRUCTION ROAD STABILIZATION						
8	STORM DRAINAGE						
9	UTILITIES						
10	MULCHING, TEMPORARY & PERMANENT GRASSING						
11	CURB & GUTTER INSTALLATION						
12	BASE AND INITIAL PAVING						
PHASE 3 - FINAL STABILIZATION							
13	SIDEWALKS						
14	PAVING & STRIPING						
15	TOPSOILING, SLOPE STABILIZATION & MATTING						
16	PERMANENT VEGETATION						
17	REMOVAL OF TEMP. SEDIMENT CONTROL STRUCTURES						

- NOTES:
- OWNERS OR OPERATORS OR BOTH SHALL SUBMIT A NOTICE OF INTENT (NOI) IN ACCORDANCE WITH NPDES REQUIREMENTS AT LEAST 14 DAYS PRIOR TO THE COMMENCEMENT OF CONSTRUCTION ACTIVITIES.
  - CONSTRUCTION SCHEDULE FOR CURB & GUTTER AND BASE & PAVEMENT MAY VARY. BUILDING CONSTRUCTION NOT ALLOWED UNTIL ALL SOIL EROSION & SEDIMENT CONTROL MEASURES ARE PROPERLY IN PLACE.
  - THE ESCAPE OF SEDIMENT FROM THE SITE SHALL BE PREVENTED BY THE INSTALLATION OF EROSION CONTROL MEASURES PRACTICES PRIOR TO, OR CONCURRENT WITH LAND-DISTURBING ACTIVITIES.
  - ACQUIRE NECESSARY PERMIT FOR ANY STATE WATERS & WETLANDS ENCROACHMENTS.
  - DURING CONSTRUCTION, CONTRACTOR SHALL CLEAN AND MAINTAIN SEDIMENT TRAPS PERIODICALLY. ALL STORM DRAIN STRUCTURES SHALL BE FREE OF SEDIMENTS AND OTHER DELETERIOUS MATERIALS BEFORE SECURING TOPS & COVERS FOR FINAL GRADING.

**SITE CONSTRUCTION POLLUTION NOTES**

- CONSTRUCTION WASTES INCLUDES DEMOLITION RUBBLE, PACKAGING MATERIALS, SCRAP BUILDING SUPPLIES, ETC. CONTRACTOR SHALL SELECT A DESIGNATED WASTE COLLECTION AREA AND PROVIDE IDS FOR WASTE CONTAINERS. CONSTRUCTION WASTES SHALL BE REMOVED ON A CONSISTENT SCHEDULE.
- PESTICIDES SHALL BE STORED IN A DRY, COVERED AREA. CONTRACTOR SHALL PROVIDE CURBS, DIKES, OR BERMS SURROUNDING STORAGE AREAS. APPLICATION RATES SHALL BE FOLLOWED STRICTLY.
- FERTILIZER AND DETERGENT APPLICATIONS ARE TO BE LIMITED TO THE MINIMUM NEEDED. CONTRACTOR SHALL NOT DISCHARGE WASH WATER INTO THE STORM WATER SYSTEM.
- PETROLEUM PRODUCTS INCLUDE OIL, GASOLINE, LUBRICANTS, AND ASPHALTIC SUBSTANCES AND SHALL BE STORED IN COVERED AREAS PROTECTED BY DIKES. CONTRACTOR SHALL HAVE EQUIPMENT TO CONTAIN AND CLEAN UP PETROLEUM SPILLS IN FUEL STORAGE AREAS OR MAINTENANCE AND FUELING VEHICLES.
- SANITARY AND SEPTIC WASTES INCLUDE ON-SITE SANITARY FACILITIES. LOCATION OF THESE FACILITIES SHALL BE OUT OF HIGH FLOW AREAS. REGULAR SERVICING BY A QUALIFIED DOMESTIC WASTE HAULER IS REQUIRED. PROPOSED SANITARY SEWER WILL TIE INTO AN EXISTING COUNTY SYSTEM.
- CONTRACTOR SHALL STORE AND HANDLE MATERIALS TO PREVENT SPILLS. IF A SPILL OCCURS, CONTACT TO STORM WATER SHALL BE MINIMIZED.
- PRIOR TO MOBILIZATION, THE CONTRACTOR SHALL SUBMIT PROPOSED LOCATIONS OF ANY POTENTIAL POLLUTANT TO THE ENGINEER FOR APPROVAL.
- WASTE MATERIALS SHALL NOT BE DISCHARGED TO WATERS OF THE STATE, EXCEPT AS AUTHORIZED BY A SECTION 404 PERMIT.

Missing or invalid reference  
 File: \\ENGIN\HYDROLOGY\20200804\_09505109646\_30\_Soil\_Map.pdf  
 Sheet: 1

**SOILS MAP**  
N.T.S.

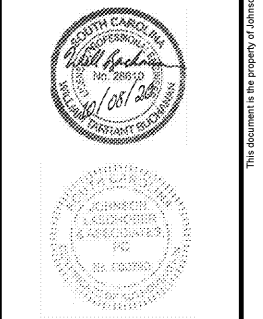
"I HAVE PLACED MY SIGNATURE AND SEAL ON THE DESIGN DOCUMENTS SUBMITTED SIGNIFYING THAT I ACCEPT RESPONSIBILITY FOR THE DESIGN OF THE SYSTEM. FURTHER, I CERTIFY TO THE BEST OF MY KNOWLEDGE AND BELIEF THAT THE DESIGN IS CONSISTENT WITH THE REQUIREMENTS OF TITLE 48, CHAPTER 14 OF THE CODE OF LAWS OF SC, 1976 AS AMENDED, PURSUANT TO REGULATION 72-300 ET SEQ. (IF APPLICABLE), AND IN ACCORDANCE WITH THE TERMS AND CONDITIONS OF SCR100000."

*Will Buchanan*  
 WILLIAM BUCHANAN, P.E.  
 09/18/2020  
 DATE

UTILITY WARNING:  
 The underground utilities shown have been located from field survey information and existing drawings. The engineer makes no guarantee that the underground utilities shown comprise all such utilities in the area, either in service or abandoned. The engineer further does not warrant that the underground utilities shown are in the exact location indicated although he does certify that they are located as accurately as possible from information available. The engineer has not physically located the underground utilities.



CITY OF NORTH AUGUSTA, SC  
 100 GEORGIA AVENUE, NORTH AUGUSTA, SC 29841  
 PROJECT NAME  
**NORTH AUGUSTA  
 FIRE STATION 1 RELOCATION**  
 PROJECT LOCATION:  
 311 W. MARTINTOWN ROAD, NORTH AUGUSTA, SC 29841



REV	DATE	BY	DESCRIPTION
0	10/08/20	WTB	ISSUED FOR BID

PROJECT NO. 3057.2003  
 DRAWN BY: JNR  
 CHECKED BY: WTB  
 DATE: 10/08/2020  
 SHEET TITLE:  
**SWPPP - GENERAL NOTES**  
 SCALE: AS NOTED  
 DRAWING NO. **C-500** REV. 0

This document is the property of Johnson, Laschober & Associates, P.C. The unauthorized reproduction, copying or otherwise use of this document is strictly prohibited and any infringement thereupon may be subject to legal action.