

***STANDARD SCHEC 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 PERMITTEE MUST ADDRESS THE NECESSARY REPLACEMENT OR MODIFICATION REQUIRED TO CORRECT THE BMP WITHIN 48 HOURS OF IDENTIFICATION.
- 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, FULL 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 REMOVE MUD/SOIL FROM PAVEMENT, AS MAY BE REQUIRED.
- 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 APPROVAL OF AN INDIVIDUAL PLAN IN ACCORDANCE WITH S.C. REG. 12-300 ET SEQ. AND SCR100000.
- 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. DOUBLE ROW OF SILT FENCE IS TO BE INSTALLED IN ALL AREAS WHERE A 50-FOOT BUFFER CAN'T 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 (5:1 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 TREATED 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; AND
 - 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 SUPERVISOR AND THE IMPLEMENTATION OF CONSTRUCTION ACTIVITIES FOR NON-LINEAR PROJECTS THAT DISTURB TO OR ON OR IN THE THIS CONFERENCE MUST BE HELD ON-SITE UNLESS THE DEPARTMENT HAS APPROVED OTHERWISE.
- COPIED FROM "STORMWATER MANAGEMENT AND EROSION CONTROL PLAN REVIEW CHECKLIST FOR DESIGN PROFESSIONALS" FILE NAME: C:\LIST.DOC, UPDATED 12/2012, PG. 11

UTILITY NOTES:

- ALL WORK SHOWN SHALL BE DONE IN ACCORDANCE WITH THESE PLANS AND SITE WORK SPECIFICATIONS.
- ALL NECESSARY PERMITS AND APPROVALS FROM AGENCIES GOVERNING THIS WORK SHALL BE SECURED PRIOR TO BEGINNING CONSTRUCTION.
- EXISTING UTILITY LINES SHOWN ARE APPROXIMATE LOCATIONS ONLY. THE CONTRACTOR SHALL FIELD VERIFY ALL EXISTING UTILITY LINE LOCATIONS PRIOR TO ANY CONSTRUCTION. ANY DEVIATIONS FROM THE DESIGN LOCATIONS SHALL BE REPORTED TO THE OWNER AND ENGINEER PRIOR TO CONSTRUCTION. CALL PUPS 1-800-922-0963 AND GWSVA 1-843-443-8200, MARCO RURAL WATER CO. INC. FOR UTILITY LINE LOCATION.
- CONTRACTOR SHALL REFER TO ARCHITECTS' PLANS AND SPECIFICATIONS FOR ACTUAL LOCATION OF ALL UTILITY ENTRANCES TO INCLUDE SANITARY SEWER, LATERALS, ELECTRICAL, TELEPHONE AND GAS SERVICE. CONTRACTOR SHALL COORDINATE INSTALLATION OF UTILITIES IN SUCH A MANNER AS TO AVOID CONFLICTS AND TO ASSURE PROPER DEPTHS ARE ACHIEVED AS WELL AS COORDINATING WITH THE REGULATORY AGENCY AS TO THE LOCATION AND SCHEDULING OF THE TIE-INS/CONNECTIONS TO THEIR FACILITIES.
- THE SITE WORK CONTRACTOR SHALL COORDINATE THE INSTALLATION OF ALL UNDERGROUND UTILITIES WITH HIS WORK. ALL UNDERGROUND UTILITIES (WATER, SANITARY SEWER, STORM SEWER, ELECTRICAL CONDUIT, IRRIGATION SLEEVES, AND ANY OTHER MISCELLANEOUS), SHALL BE IN PLACE PRIOR TO THE PLACEMENT OF BASE COURSE MATERIAL.
- ALL WATER & SEWER CONSTRUCTION SHALL MEET OR EXCEED THE STANDARDS AND SPECIFICATIONS OF THE GRAND STRAND WATER AND SEWER AUTHORITY (SEWER), MARCO RURAL WATER CO. INC. (WATER).
- SEWER LATERALS SHALL BE PLUGGED AT THE PROPERTY LINE. MARK SEWER END WITH TREATED POST PLACED IN GROUND.
- WHERE FIELD INSPECTIONS ARE REQUIRED BY THE REGULATORY AGENCIES, THE CONTRACTOR SHALL NOTIFY THE ENGINEERING DIVISION A MINIMUM OF 48 HOURS IN ADVANCE TO SCHEDULE SUCH INSPECTIONS.
- ALL WATER TO MAINTAIN 36" COVER, SEWER TO MAINTAIN 36" COVER.
- THE SEWER SYSTEM IS DESIGNED TO BE ABOVE THE 50' ROAD ELEVATION.
- A PUBLIC ENTITY SHALL BE RESPONSIBLE FOR THE OPERATION, MAINTENANCE, AND REPLACEMENT OF ALL SYSTEM COMPONENTS BEGINNING WITH THE SOLIDS INTERCEPTOR TANKS AND PUMPING SYSTEMS. PROPOSALS BY PRIVATE ENTITIES SHALL BE EVALUATED ON A CASE-BY-CASE BASIS. THE DEPARTMENT MAY EVALUATE THE CAPABILITY OF RELIABLE SYSTEM OPERATION IN ITS EVALUATION.
- WATER & SEWER SERVICES WILL BE 2 FT FROM THE PROPERTY LINE OR 5 FT FROM A DRAINAGE EASEMENT.
- THERE WILL BE A MINIMUM OF 10 FT HORIZONTAL SEPARATION BETWEEN THE WATER AND SEWER UTILITIES.
- THERE SHALL BE A MINIMUM OF 18 INCHES VERTICAL SEPARATION BETWEEN ALL UTILITY LINES.

CONSTRUCTION NOTES:

- CONTRACTOR SHALL ADJUST ANY MANHOLE RIM BY 3'-12" (1' COURSE) UP OR DOWN TO FIT FIELD CONDITIONS. AT NO ADDITIONAL COST TO THE ENGINEER OR THE OWNER, ADJUSTMENTS ABOVE ONE COURSE FOR THE MANHOLE RIMS SHALL BE APPROVED BY THE ENGINEER.
- PROPOSED FIRE HYDRANTS LOCATED IN FIELD SHALL BE IN ACCORDANCE WITH THE LOCAL AUTHORITY'S SPECIFICATIONS AS SHOWN ON THE FIRE HYDRANT DETAILS. ANY SHOWN ON PLANS, LOCATION AND SCALE HAVE BEEN MODIFIED FOR CLARITY. DO NOT SCALE THE FIRE HYDRANT LOCATIONS FROM THE PLAN.
- PROPOSED CATCH BASIN GRATE ELEVATIONS ARE SUBJECT TO FIELD CHANGES ONLY IF APPROVED BY THE ENGINEER.
- ANY CHANGES OR DEVIATIONS FROM THE PERMITTED PLANS DURING CONSTRUCTION SHALL BE APPROVED BY THE ENGINEER. EXTRA WORK CAUSED BY THE FAILURE TO FOLLOW THE PLANS SHALL BE AT THE SOLE EXPENSE OF THE OWNER OR CONTRACTOR.
- FINISHED FLOOR ELEVATION TO BE ESTABLISHED BY THE BUILDING DESIGNER / ARCHITECT. ALL BUILDINGS SHALL BE A MINIMUM OF 12 INCHES ABOVE THE ROAD CENTERLINE ELEVATION.
- ANY LOCATIONS OR ELEVATIONS SHOWN ON PLANS AS EXISTING ARE TO BE FIELD VERIFIED BY CONTRACTOR IN COORDINATION WITH RESPECTIVE UTILITY AGENCY. ANY FOUND DEVIATION FROM PLAN LOCATIONS OR ELEVATIONS MUST BE SUBMITTED TO THE ENGINEER FOR REVIEW AND APPROVAL BEFORE CONSTRUCTION METHODS CAN COMMENCE.

GENERAL PAVEMENT NOTES:

- BASE COMPACTED TO 100% MODIFIED PROCTOR DENSITY. SUBGRADE COMPACTED TO 95% MODIFIED PROCTOR DENSITY. ALL FILL TO BE PLACED IN 6" LIFTS AND COMPACTED MIN. 18" FOR COMPACTED SUBGRADE.
- PROTECT INLETS PRIOR TO PAVING.
- CONTRACTOR TO PROVIDE ASPHALT CORES, GRADATION AND DESIGN TO LOCAL DEVELOPER AS REQUIRED IN THE LOCAL LAND DEVELOPER REGULATIONS.
- UNDERDRAINS ARE TO BE INSTALLED BEHIND ALL CURBS AND CUTTERS AND EXTENDED FROM BOX TO BOX.
- A GEOTECHNICAL ENGINEER MUST DESIGN AND COMP THE ROADWAY CROSS SECTION AS REQUIRED IN THE LOCAL LAND DEVELOPER REGULATIONS.
- SOIL BORINGS SHALL BE TAKEN AT A MINIMUM OF EVERY 100 FT. OF ROADWAY CENTERLINE AND A GEOTECHNICAL REPORT SHALL ACCOMPANY THESE BORINGS.
- ALL CLEARING AND GRADING IS TO MEET SC'S SPECIFICATIONS.
- A MINIMUM OF 2" OF GABC IS TO BE INSTALLED ON ALL CURBS.
- PROOF ROLLING SHALL BE PERFORMED WITH A KAWNEER TANDUM AXLE DUMP TRUCK. WEIGHT TICKET SHOWING THE CURB HEIGHT COMING FROM A SC CERTIFIED SCALE MASTER MUST BE PROVIDED AT BEGINNING OF PROOF ROLL INSPECTION. WEIGHT TICKET CANNOT HAVE BEEN ISSUED MORE THAN ONE HOUR PRIOR TO BEGINNING PROOF ROLL INSPECTION. GROSS VEHICLE WEIGHT SHALL BE NO LESS THAN 60,000 LBS. IN CASE OF THIS REQUIREMENT CONTRACTOR MAY PROVIDE TANDUM DUMP TRUCK LOADED WITH GABC TO ZERO FREEBOARD. LOAD MUST BE DUMPED ON-SITE AT THE END OF THE PROOF ROLL FOR INSPECTION BY THE INSPECTOR. ANY MATERIAL FOUND OTHER THAN GABC WILL RESULT IN AN INSPECTION FAILURE.

STATE PLANE COORDINATES

ALL BEARINGS SHOWN HEREON ARE BASED UPON THE SOUTH CAROLINA STATE PLANE COORDINATES SYSTEM (NAD83) AND WERE PROVIDED BY THE SURVEYOR. STATE PLANE COORDINATES SHOWN ARE FOR REFERENCE ONLY AND DO NOT REPRESENT SURVEYED COORDINATES.

VERTICAL DATUM NAVD83

THE ELEVATIONS SHOWN HEREON WERE PROVIDED BY THE SURVEYOR AND ARE BASED ON THE NORTH AMERICAN VERTICAL DATUM OF 1988 (NAVD88)

NOTE: SURVEYOR AND CONTRACTOR SHALL VERIFY LOCATION OF ALL INFRASTRUCTURE IMPROVEMENTS AND PROPERTY CORNERS PRIOR TO CONSTRUCTION AND NOTIFY THE DESIGN ENGINEER IF ANY DISCREPANCIES ARE FOUND.

WATER AND SEWER LEGEND:

- SANITARY MANHOLE (SMH)
- SANITARY PIPE (SAN)
- FIRE HYDRANT
- 2" BLOW OFF
- WATER VALVE
- SINGLE WATER SERVICE
- DOUBLE WATER SERVICE
- SINGLE SANITARY SERVICE
- DOUBLE SANITARY SERVICE

NOTE: REFER TO DETAIL SHEETS FOR DETAILED INFORMATION AND CONTACT ENGINEER WITH ANY QUESTIONS PRIOR TO PURCHASING AND INSTALLATION OF UTILITIES.

SEDIMENT AND EROSION CONTROL LEGEND:

- CONSTRUCTION ENTRANCE (SEE DETAIL)
- FILTREX OR SILT FENCE (SEE DETAIL) LIMIT OF CONSTRUCTION
- RIP-RAP
- CONCRETE WASHOUT
- INLET PROTECTION - TYPE A
- INLET PROTECTION - TYPE I
- TEMPORARY SEEDING
- PERMANENT SEEDING
- SKIMMER

BUREAU OF WATER REQUIREMENTS:

- AN ON-SITE INSPECTION BOX SHALL BE PROVIDED AND ACCESSIBLE UNTIL FINAL STABILIZATION IS ACHIEVED.
- A RAIN GAUGE SHALL BE PROVIDED BY THE C.E.P.S.C.I. INSPECTOR AND REMAIN ON-SITE AND OPERABLE UNTIL FINAL STABILIZATION IS ACHIEVED.
- THE CONTRACTOR SHALL MAINTAIN AND HAVE AVAILABLE ON-SITE AT ALL TIMES REQUIREMENTS SET FORTH IN THE PROVIDED SWPPP. TO INCLUDE BUT NOT LIMITED TO THE ON-SITE INSPECTION LOG AND ON-SITE MAINTENANCE LOG.

GRASSING SPECIFICATIONS

SPECIES	TEMPORARY SEEDING - CONATL												
	UGAC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
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