EROSION, SEDIMENTATION AND POLLUTION CONTROL NOTES

ALL EROSION, SEDIMENTATION CONTROLS, AND TREE PROTECTION MEASURES SHALL BE INSTALLED PRIOR TO GRADING. 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 THE SEDIMENT SOURCE.

(PRIMARY PERMITTEE)

MACON -BIBB COUNTY RECREATION DEPARTMENT
115 WILLIE SMOKIE GLOVER DRIVE
MACON, GEORGIA 31201

CONTACT
ROBERT WALKER ~ 478.808.0192

GENERAL SITE INFORMATION

1. TOTAL AREA = 2.55 ACRES.
2. DISTURBED AREA = 2.4 ACRES.
3. THIS PROJECT IS ZONED:
4. NO PORTION OF THIS PROJECTS LOCATED WITHIN A 100 YEAR FLOOD HAZARD ZONE AS DEFINED BY F.I.R.M. COMMUNITY PANEL NUMBER 13021C0132G, LAST REVISED 06/07/07, FOR BIBB COUNTY.
5. THERE ARE NO DELINEATED WETLANDS BEING DISTURBED ON THE SITE.
6. THERE ARE BLUE LINE STREAM(S) ON THE SITE (NO BUFFERS AFFECTED).
7. THERE ARE NO TROUT STREAMS ON THE SITE.
8. RECEIVING WATERS: UNNAMED TRIBUTARY OF OCMULGEE RIVER
9. THIS PROJECT CONSISTS OF THE CONSTRUCTION OF MULTI-PURPOSE FIELD, PAVILION, AND PARKING
10. THE SEQUENCE OF CONSTRUCTION EVENTS WILL BE AS FOLLOWS:
    INSTALLATION OF EROSION, SEDIMENTATION AND TREE PROTECTION MEASURES
    CLEARING & GRUBBING
    GRADING ACTIVITIES
    BUILDING CONSTRUCTION
    FINAL STABILIZATION
11. ACCESS TO THE SITE SHALL BE FROM BETTY TOLBERT ROAD WHERE THE CONSTRUCTION EXIT SHALL BE CONSTRUCTED AND MAINTAINED.
12. CURRENTLY THE SITE IS DEVELOPED CONSISTING OF OLD HOUSES AND WISE AVE. ROAD TRAVERSING THROUGH PROPERTY. RUNOFF FROM THE SITE FLOWS THROUGH EX. PIPES TO THE NORTH WESTERN PROPERTY CORNER.
13. TOTAL ESTIMATED PRE-DEVELOPED RUNOFF COEFFICIENT IS 0.65.
14. TOTAL ESTIMATED DEVELOPED RUNOFF COEFFICIENT IS 0.50
15. SLOPES AND DRAINAGE PATTERNS AFTER DEVELOPMENT WILL APPROXIMATELY MATCH THE PRE-DEVELOPED PATTERNS.
16. WASTE MATERIALS SHALL NOT BE DISCHARGED TO WATERS OF THE STATE, EXCEPT AS AUTHORIZED BY A SECTION 404 PERMIT.

GENERAL GRADING AND EROSION CONTROL NOTES

1. ALL EROSION AND SEDIMENT CONTROL MEASURES ARE DESIGNED FOR A 25 YEAR, 24 HOUR RAINFALL EVENT.
2. VELOCITY DISSIPATION DEVICES (I.E. STORM DRAIN OUTLET PROTECTION (St), CHECK DAMS (Cd), ROCK DAMS (Rd), STILLING BASINS, ECT.) SHALL BE PLACED AT ALL DISCHARGE LOCATIONS.
3. STRIPPING OF VEGETATION, GRADING, AND OTHER DEVELOPMENT ACTIVITIES SHALL BE CONDUCTED IN SUCH A MANNER SO AS TO MINIMIZE EROSION AND CONFORM TO THE PLANS.
4. CUT AND FILL OPERATIONS SHALL BE KEPT TO A MINIMUM. MAXIMUM SLOPES SHALL BE 2:1. ALL SLOPES, 2.5:1 OR STEEPER AND 10' OR HIGHER SHALL BE MULCHED, HYDRO-SEEDED OR PROTECTED BY A GEORGIA DOT APPROVED WHEAT OR WOOD FIBER EROSION CONTROL MAT, ATTACHED TO THE SLOPE BY MEANS OF STAPLES OR STAKES, AS DIRECTED BY THE MANUFACTURER OF THE MAT. ALL SLOPES SHALL BE PROPERLY PROTECTED UNTIL A PERMANENT VEGETATIVE STAND IS ESTABLISHED.
5. NATURAL VEGETATION SHALL BE RETAINED, PROTECTED, AND SUPPLEMENTED, WHEREVER POSSIBLE.
6. THE DISTURBED AREA AND THE DURATION OF EXPOSURE TO EROSIVE ELEMENTS SHALL BE KEPT TO A PRACTICABLE MINIMUM. DISTURBED SOIL SHALL BE STABILIZED BY TEMPORARY MULCHING OR VEGETATION (Ds1/Ds2) AS SOON AS FINAL GRADE IS ACHIEVED OR WITHIN 14 DAYS, WHICHEVER IS SOONER. WHERE STABILIZATION IS PRECLUDED BY INCLEMENT WEATHER, STABILIZATION MEASURES SHALL BE INITIATED AS SOON AS PRACTICABLE. THESE DISTURBED AREAS MUST ALSO BE PROTECTED UNTIL PERMANENT VEGETATION (Ds3) IS ESTABLISHED.
7. A DOUBLE ROW OF GEORGIA DOT TYPE 'C' SILT FENCE SHALL BE INSTALLED ON THE DOWNSTREAM SIDE OF ALL LAND DISTURBING ACTIVITIES AND ALONG UNDISTURBED BUFFERS ON WATERS OF THE STATE, OR AS SHOWN ON THE PLANS.
8. EROSION AND SEDIMENT CONTROL MEASURES MUST BE CHECKED AT THE END OF EACH DAY CONSTRUCTION ACTIVITY OCCURS AND AFTER EACH RAINFALL EVENT. EACH DEVICE IS TO BE MAINTAINED OR REPLACED IF SEDIMENT ACCUMULATION HAS REACHED ONE THIRD THE CAPACITY OF THE DEVICE. ADDITIONAL DEVICES MUST BE INSTALLED IF RILL EROSION DEVELOPS.
9. SEDIMENT LADEN RUNOFF SHALL BE TRAPPED BY THE USE OF SEDIMENT BASINS, SILT TRAPS, OR SIMILAR MEASURES UNTIL THE DISTURBED AREA IS STABILIZED.
10. ADEQUATE PROVISIONS SHALL BE PROVIDED TO MINIMIZE DAMAGE FROM SURFACE WATER TO THE CUT FACE OF EXCAVATIONS OR THE SLOPING SURFACES OF FILLS.
11. FILLS SHALL NOT ENCROACH UPON NATURAL WATER COURSES OR CONSTRUCTED CHANNELS IN A MANNER SO AS TO ADVERSELY AFFECT OTHER PROPERTY OWNERS.
12. GRADING EQUIPMENT SHALL ONLY CROSS WATERS OF THE STATE AND/OR WATERS OF THE U.S. BY THE MEANS OF BRIDGES, CULVERTS OR APPROVED TEMPORARY STREAM CROSSINGS (Sr).
13. PROVISIONS SHALL BE PROVIDED FOR TREATMENT OR CONTROL OF ANY SOURCE OF SEDIMENTS AND ADEQUATE SEDIMENTATION CONTROL FACILITIES TO RETAIN SEDIMENTS ON SITE OR PRECLUDE SEDIMENTATION OF ADJACENT WATERS BEYOND THE LEVELS SPECIFIED IN THIS PERMIT.
14. NO CONSTRUCTION ACTIVITIES SHALL BE CONDUCTED WITHIN A 25 FOOT BUFFER ALONG THE BANKS OF ALL STATE WATERS, AS MEASURED HORIZONTALLY FROM THE POINT WHERE VEGETATION HAS BEEN WRESTED BY NORMAL STREAM FLOW OR WAVE ACTION, EXCEPT WHERE THE DIRECTOR HAS DETERMINED TO ALLOW A VARIANCE THAT IS AT LEAST AS PROTECTIVE OF NATURAL RESOURCES AND THE ENVIRONMENT IN ACCORDANCE WITH THE PROVISIONS OF O.C.G.A. 12-7-6, OR WHERE A DRAINAGE STRUCTURE OR A ROADWAY DRAINAGE STRUCTURE MUST BE CONSTRUCTED, PROVIDED THAT ADEQUATE EROSION CONTROL MEASURES ARE INCORPORATED IN THE PROJECT PLANS AND SPECIFICATIONS AND ARE IMPLEMENTED. LOCAL GOVERNING AUTHORITY REQUIREMENTS APPLY IF THEY ARE MORE STRINGENT.
15. NO CONSTRUCTION ACTIVITIES SHALL BE CONDUCTED WITHIN A 50 FOOT BUFFER, AS MEASURED HORIZONTALLY FROM THE POINT WHERE VEGETATION HAS BEEN WRESTED BY NORMAL STREAM FLOW OR WAVE ACTION, ALONG THE BANKS OF ANY STATE WATERS CLASSIFIED AS 'TROUT STREAMS' EXCEPT WHEN APPROVAL IS GRANTED BY THE DIRECTOR FOR ALTERNATE BUFFER REQUIREMENTS IN ACCORDANCE WITH THE PROVISIONS OF O.C.G.A. 12-7-6, OR WHERE A ROADWAY DRAINAGE STRUCTURE MUST BE CONSTRUCTED; PROVIDED, HOWEVER, THAT SMALL SPRINGS AND STREAMS CLASSIFIED AS 'TROUT STREAMS' WHICH DISCHARGE AN AVERAGE ANNUAL FLOW OF 25 GALLONS PER MINUTE OR LESS SHALL HAVE A 25 FOOT BUFFER OR THEY MAY BE PIPED, AT THE DISCRETION OF THE PERMITTEE, PURSUANT TO THE TERMS OF A RULE PROVIDING FOR A GENERAL VARIANCE PROMULGATED BY THE BOARD OF NATURAL RESOURCES INCLUDING NOTIFICATION OF SUCH TO EPD AND THE LOCAL ISSUING AUTHORITY OF THE LOCATION AND EXTENT OF THE PIPING AND PRESCRIBED METHODOLOGY FOR MINIMIZING THE IMPACT OF SUCH PIPING AND FOR MEASURING THE VOLUME OF WATER DISCHARGED BY THE STREAM. ANY SUCH PIPE MUST STOP SHORT OF THE DOWNSTREAM PERMITTEE'S PROPERTY, AND THE PERMITTEE MUST COMPLY WITH THE BUFFER REQUIREMENT FOR ANY ADJACENT TROUT STREAMS. LOCAL GOVERNING AUTHORITY REQUIREMENTS APPLY IF THEY ARE MORE STRINGENT.
16. NO CONSTRUCTION ACTIVITIES SHALL BE CONDUCTED WITHIN A BUFFER AND A BUFFER SHALL REMAIN IN ITS NATURAL, UNDISTURBED, STATE OF VEGETATION UNTIL ALL LAND-DISTURBING ACTIVITIES ON THE CONSTRUCTION SITE ARE COMPLETED. BETWEEN THE TIME FINAL STABILIZATION OF THE SITE IS ACHIEVED AND UPON THE SUBMITTAL OF A NOTICE OF TERMINATION, A BUFFER MAY BE THINNED OR TRIMMED OF VEGETATION AS LONG AS A PROTECTIVE VEGETATIVE COVER REMAINS TO PROTECT WATER QUALITY AND AQUATIC HABITAT AND A NATURAL CANOPY IS LEFT IN SUFFICIENT QUANTITY TO KEEP SHADE ON THE STREAM BED. LOCAL GOVERNING REQUIREMENTS APPLY IF THEY ARE MORE STRINGENT.
17. A CONSTRUCTION EXIT OF A MINIMUM 20 FT WIDE BY 50 FT LONG SHALL BE CONSTRUCTED WITH 1.5-3.5" STONE AND BE A MINIMUM OF 6" THICK, PLACED ON CONSTRUCTION FABRIC GEO-TEXTILE UNDER LINER, WHEREVER TRAFFIC WILL ENTER ONTO A PUBLIC ROAD. THE CONSTRUCTION EXIT SHALL BE MAINTAINED IN A CONDITION WHICH WILL PREVENT TRACKING OR FLOW OF MUD ONTO PUBLIC RIGHT-OF-WAY. THIS MAY REQUIRE PERIODIC TOP DRESSING WITH STONE, AS CONDITIONS DEMAND, AND REPAIR AND/OR CLEAN-OUT OF ANY STRUCTURES USED TO TRAP SEDIMENT. ALL MATERIALS SPILLED, DROPPED, WASHED, OR TRACKED FROM VEHICLE OR SITE ONTO PUBLIC ROADWAY OR INTO STORM DRAIN MUST BE REMOVED IMMEDIATELY.
18. EXCAVATED TOPSOIL THAT IS TO BE REUSED ON-SITE WILL NEED TO BE STOCK PILED IN A CENTRAL AREA AND ENCIRCLED WITH SILT FENCING.
19. ADDITIONAL EROSION AND SEDIMENT CONTROL MEASURES MAY BE REQUIRED BY SITE CONDITIONS, PROJECT ENGINEER OR REPRESENTATIVES OF THE LOCAL GOVERNING BODY.
20. OWNER/DEVELOPER/CONTRACTOR SHALL PROVIDE A REPRESENTATIVE WHO, AS A MINIMUM, HAS SUCCESSFULLY COMPLETED AN EROSION AND SEDIMENT CONTROL SHORT COURSE ELIGIBLE FOR CONTINUING EDUCATION UNITS (OR AN EQUIVALENT COURSE APPROVED BY EPD OR THE GEORGIA SCS) TO REMAIN ON SITE DURING LAND DISTURBANCE ACTIVITIES.
21. THE REPRESENTATIVE ABOVE SHALL OVERSEE LAND DISTURBANCE OPERATIONS WITH EMPHASIS ON BEING PREPARED FOR RAIN EVENTS THROUGH STRICT ADHERENCE TO BMPs AS DEFINED IN THE "MANUAL FOR EROSION AND SEDIMENT CONTROL IN GEORGIA", LATEST EDITION, AND THROUGH PROPER EARTH SHAPING, TERRACING, BERMING, MAXIMIZING STORM WATER TRAVEL LENGTHS, MINIMIZING STORM WATER PATH SLOPES, IMMEDIATE MULCHING, FERTILIZING, GRASSING AND SITE STABILIZATION.
22. CONTRACTOR SHALL MITIGATE ANY OIL OR PETROLEUM SPILLS AND LEAKS THAT MAY OCCUR ON THE SITE. ALL EARTH MOVING/CONSTRUCTION EQUIPMENT (ESPECIALLY HYDRAULICALLY OPERATED MACHINES) SHOULD BE PARKED IN A COMMON AREA, AS FAR AWAY FROM ANY STATE WATERS AS POSSIBLE, WHEN NOT IN USE. AREA SHOULD BE CHECKED DAILY. IF ANY OIL LEAKS ARE NOTICED, CONTAMINATED SOIL SHALL BE ACCUMULATED IN A LEAK PROOF VESSEL AND WHEN NECESSARY, BE DISPOSED OF PER THE GEORGIA HAZARDOUS WASTE MANAGEMENT ACT, O.C.G.A. 12-8-60. THESE SPILLS AND REMEDIATION'S SHOULD BE LOGGED IN THE DAILY LOG.
23. VARIATIONS IN EXISTING TOPOGRAPHY OR PROPOSED FINISHED GRADES FROM WHAT IS SHOWN HEREIN MAY NECESSITATE CHANGES IN LOCATIONS AND/OR TYPES OF EROSION CONTROL MEASURES.
24. THE LOCATION AND/OR TYPE OF SOME OF THE EROSION AND SEDIMENT CONTROL MEASURES MAY HAVE TO BE ALTERED FROM THAT SHOWN IN THESE PLANS IF DRAINAGE PATTERNS DURING CONSTRUCTION ARE DIFFERENT FROM THE FINAL PROPOSED DRAINAGE PATTERNS. IT IS THE CONTRACTOR'S RESPONSIBILITY TO ACCOMPLISH EROSION CONTROL FOR ALL DRAINAGE PATTERNS CREATED AT VARIOUS STAGES DURING CONSTRUCTION.
25. A COPY OF THE APPROVED CONSTRUCTION PLANS MUST BE ON THE JOB SITE AT ALL TIMES THAT CONSTRUCTION IS UNDERWAY.
26. ALL BUILDERS SHALL BE HELD FULLY RESPONSIBLE FOR ON SITE EROSION AND SEDIMENT CONTROL OF THEIR OWN LOTS (I.E. INSTALLATION AND MAINTENANCE OF SILT FENCE, ENTRANCE GRAVEL, ETC.) BUILDERS ARE ALSO RESPONSIBLE FOR KEEPING STREETS ADJACENT TO THEIR OWN LOTS CLEAR OF SEDIMENT AND DEBRIS.
27. EACH DEVELOPER/BUILDER/PROPERTY OWNER IS REQUIRED TO PREVENT RUNOFF FROM DAMAGING ADJACENT PROPERTIES.

LAND DISTURBANCE CONSTRUCTION ACTIVITY SEQUENCE

THE FOLLOWING SEQUENCES ARE TO BE IMPLEMENTED IN THE ORDER SHOWN, UNLESS INCLEMENT WEATHER, SITE CONDITIONS, REVISIONS, PRE-CONSTRUCTION CONFERENCE, ETC., DICTATE A DEVIATION FROM THIS SCHEDULE. IF A DEVIATION IS UNDERTAKEN OR ANTICIPATED, THE ENGINEER SHALL BE NOTIFIED AND THE CHANGE OF SEQUENCE SHALL BE RECORDED IN THE DAILY LOG.

PHASE 1 - CLEARING & GRUBBING PLAN

1. OBTAIN AND POST COPY OF LAND DISTURBANCE PERMIT ON SITE.
2. SET UP A PRE-CONSTRUCTION CONFERENCE AT THE SITE WITH THE OWNER'S REPRESENTATIVE, CONTRACTOR, PROJECT DESIGN TEAM, AND COUNTY/CITY INSPECTOR TO REVIEW THE EROSION CONTROL AND SITE WORK CONSTRUCTION DOCUMENTS REQUIREMENTS.

PHASE 1 - CLEARING & GRUBBING PLAN (CONTINUED)

3. SET UP A DAILY INSPECTION LOG FOR THE BMP INSPECTIONS TO BE KEPT IN THE CONSTRUCTION TRAILER.
4. CONSTRUCT THE CONSTRUCTION ENTRANCES/EXITS AT THE PROPOSED LOCATIONS AS SHOWN ON THE PLANS.
5. DELINEATE BUFFERS AND TREE PROTECTION LIMITS WITH TREE PROTECTION FENCING AS SHOWN ON PLANS.
6. FLAG AND STAKE PROPERTY LINES AND PROPERTY CORNERS, AS NECESSARY.
7. INSTALL ALL SILT FENCE AS SHOWN ON PHASE-I EROSION CONTROL PLAN (ECP).
8. CLEAR AND GRUB ROUTES TO AREAS FOR TEMPORARY AND PERMANENT STRUCTURAL BEST MANAGEMENT PRACTICES (BMP).
9. INSTALL ROCK FILTER DAMS IN NATURAL SWALES, AS SHOWN ON THE PLANS, WITH MINIMAL DISTURBANCE TO THE ADJACENT AREA.
10. CONSTRUCT ALL OTHER STRUCTURAL BMP'S SHOWN ON THE PHASE-1 ECP.
11. CONTRACTOR SHALL COMPLETE CLEARING AND GRUBBING FOR REMAINING AREAS OF CONSTRUCTION. ALL CLEARED MATERIAL TO BE HAULED OFF SITE OR STOCKPILED FOR CHIPPING OR TUB GRINDING, OR BURNING, IF PERMITTED.

PHASE 2 - GRADING AND TEMPORARY VEGETATIVE PLAN

1. APPLY TEMPORARY VEGETATION (Ds1/Ds2) IN ACCORDANCE WITH PLANS AND NOTES IN THESE DOCUMENTS FOR CLEARED AREAS.
2. CONSTRUCT ALL STRUCTURAL BMP'S SHOWN ON THE PHASE-II ECP WHERE COMPLETION OF ROUGH GRADING IS NOT NECESSARY FOR INSTALLATION (I.E. AT TOE OF SLOPES, OTHER AREAS NOT TO BE AFFECTED BY ROUGH GRADING.)
3. COMMENCE WITH ROUGH GRADING ON SITE. INSTALL STRUCTURAL AND VEGETATIVE BMP'S AS SHOWN ON PLANS AND IN ACCORDANCE WITH NOTES AS ROUGH GRADING FOR EACH AREA IS COMPLETED.
4. INSTALL PERMANENT DETENTION POND(S), IF APPLICABLE, AS SHOWN.
5. CONSTRUCT TEMPORARY AND PERMANENT DRAINAGE STRUCTURES AS NECESSARY FOR PROPER SITE DRAINAGE AND CONVEYANCE TO THE PROPER BEST MANAGEMENT PRACTICES SHOWN ON THE PHASE-II ECP. INSTALL ALL OUTLET PROTECTION BMP'S CONCURRENT WITH DRAINAGE OUTFALLS.
6. INSTALL INLET PROTECTION (Sd2) AT ALL INLET STRUCTURES. USE SD2-F OR SD2-Bg AS SHOWN ON DETAILS.
7. AS SLOPES ARE BEING CONSTRUCTED, SPREAD FERTILIZER AND GRASS SEED ALONG WITH RECOMMENDED MULCHING AS SOON AS FINAL GRADE IS ACHIEVED TO HELP STABILIZE THESE SLOPES.
8. CONSTRUCT DIVERSION DIKES(Di) WITH DOWN DRAINS (Dn1) AS NEEDED AND AS SHOWN ON THE PHASE II ECP. CONSTRUCT FILTER RINGS (Fr) AROUND EACH TEMPORARY DOWN DRAIN INLET.
9. SPREAD MATTING AND BLANKETS AND APPLY PERMANENT GRASSING TO ALL FINISHED SLOPES.
10. COMMENCE FINAL GRADING OF ALL ROADS, PARKING LOTS AND BUILDING PADS.

PHASE 3 - STORMWATER MANAGEMENT AND PERMANENT VEGETATIVE PLAN

1. INSTALL ALL SANITARY SEWER LINES AND REMAINING STORM DRAINS WITH OUTLET PROTECTION (St), AND/OR OTHER NECESSARY CHANNEL STABILIZATION AS REQUIRED AT HEADWALLS.
2. INSTALL INLET PROTECTION (Sd2) AT ALL INLET STRUCTURES. SD2-P MAY BE INSTALLED ON INLET STRUCTURES WITH STRUCTURE TOPS IN PLACE.
3. SMOOTH GRADES AND PERMANENTLY VEGETATE DISTURBED AREAS AT COMPLETION OF PIPE CONSTRUCTION.
4. INSTALL AGGREGATE BASE FOR ALL ROADWAYS.
5. INSTALL CURB & GUTTER FOR ROADS AND PARKING LOTS.
6. AFTER A CURING TIME OF NO LESS THAN SEVEN DAYS, CURBS SHALL BE BACK FILLED AND SHOULDERS SHALL BE SMOOTH GRADED AND TEMPORARILY VEGETATED OR MULCHED. (Ds1/Ds2).
7. INSTALL UTILITIES IN ALL THE SHOULDERS. APPLY TEMPORARY VEGETATION TO AREAS DISTURBED BY UTILITY CONSTRUCTION IN ACCORDANCE WITH PLAN NOTES.
8. CONSTRUCT SIDEWALKS AS SHOWN ON PLANS. AFTER A CURING TIME OF NO LESS THAN SEVEN DAYS, REMOVE FORMS AND APPLY MULCH OR VEGETATION TO DISTURBED AREAS.
9. PAVE ALL STREETS. APPLY FINAL STABILIZATION TO ANY REMAINING AREAS THAT HAVE NOT BEEN PERMANENTLY VEGETATED IN ACCORDANCE WITH NOTES IN THESE PLANS.
10. ALL SEDIMENT PONDS AND PERIMETER SILT FENCING TO REMAIN THROUGHOUT BUILDING CONSTRUCTION TO BE DONE BY OTHERS. AT COMPLETION OF BUILDING CONSTRUCTION, ALL AREAS ARE TO BE PERMANENTLY VEGETATED.
11. REMOVE TEMPORARY SEDIMENT PONDS AND OTHER TEMPORARY STRUCTURAL BMP'S FOLLOWING FINAL STABILIZATION AND WHEN PERMANENT VEGETATIVE COVER IS ESTABLISHED ON 80% OF THE SURFACE. USE PERMANENT VEGETATIVE BMP'S TO STABILIZE BACKFILL FROM REMOVAL OF STRUCTURAL BMP'S.
12. AS SOON AS CONCRETE BUILDING PADS ARE POURED, ALL AREAS AROUND AND BETWEEN THESE PADS AND THE STREETS/PARKING LOTS SHALL BE TEMPORARILY VEGETATED.
13. AS SOON AS PRACTICALLY POSSIBLE, PERMANENT LANDSCAPING SHALL BE INSTALLED ALONG ALL STREETS AND THROUGHOUT THE SITE TO PROTECT THE LAND AND HELP MINIMIZE THE EFFECTS OF SEDIMENT RUNOFF INTO STATE BUFFERS OR ONTO ADJACENT PROPERTIES.
14. DEVELOPER TO SUBMIT A NOTICE OF TERMINATION.

PRODUCT SPECIFIC PRACTICES:
PETROLEUM BASED PRODUCTS - CONTAINERS FOR PRODUCTS SUCH AS FUELS, LUBRICANTS AND TARS WILL BE INSPECTED DAILY FOR LEAKS AND SPILLS. THIS INCLUDES ON-SITE VEHICLE AND MACHINERY DAILY INSPECTIONS AND REGULAR PREVENTATIVE MAINTENANCE OF SUCH EQUIPMENT. EQUIPMENT MAINTENANCE AREAS WILL BE LOCATED AWAY FROM STATE WATER, NATURAL DRAINS AND STORM WATER DRAINAGE INLETS. IN ADDITION, TEMPORARY FUELING TANKS SHALL HAVE SECONDARY CONTAINMENT LINER TO PREVENT / MINIMIZE SITE CONTAMINATION. DISCHARGE OF OILS, FUELS AND LUBRICANTS IS PROHIBITED. PROPER DISPOSAL METHODS WILL INCLUDE COLLECTION IN A SUITABLE CONTAINER AND DISPOSAL AS REQUIRED BY LOCAL AND STATE REGS.

PAINTS / FINISHES / SOLVENTS - ALL PRODUCTS WILL BE STORED IN TIGHTLY SEALED ORIGINAL CONTAINERS WHEN NOT IN USE. EXCESS PRODUCT WILL NOT BE DISCHARGED TO THE STORM WATER COLLECTION SYSTEM. EXCESS PRODUCT, MATERIALS USED WITH THESE PRODUCTS AND PRODUCT CONTAINERS WILL BE DISPOSED OF ACCORDING TO MANUFACTURER'S SPECIFICATIONS AND RECOMMENDATIONS.

CONCRETE TRUCK WASHING - NO CONCRETE TRUCKS WILL BE ALLOWED TO WASH OUT OR DISCHARGE SURPLUS CONCRETE OR DRUM WASH WATER ON SITE.

FERTILIZER / HERBICIDES - THESE PRODUCTS WILL BE APPLIED AT RATES THAT DON'T EXCEED THE MANUFACTURER'S SPECIFICATIONS OR ABOVE THE GUIDELINES SET FORTH IN THE CROP ESTABLISHMENT OR IN THE GSWCC MANUAL FOR EROSION AND SEDIMENT CONTROL IN GEORGIA. ANY STORAGE OF THESE MATERIALS WILL BE UNDER ROOF IN SEALED CONTAINERS.

BUILDING MATERIALS - NO BUILDING OR CONSTRUCTION MATERIALS WILL BE BURIED OR DISPOSED OF ONSITE. ALL SUCH MATERIAL WILL BE DISPOSED OF IN PROPER WASTE DISPOSAL PROCEDURES.

CRITICAL WORK ZONE EROSION CONTROL NOTES:
SHADED AREAS SHOWN ON GRADING PHASE EROSION CONTROL PLANS REPRESENT CRITICAL WORK ZONES. AT THE END OF EACH WORK DAY ALL SLOPES 2:1 OR STEEPER AND HIGHER THAN 5 FEET SHALL RECEIVE SURFACE ROUGHENING, POLYMERS AND EROSION CONTROL MATTING. ADDITIONALLY, ALL FILL SLOPES SHALL RECEIVE A DIVERSION DIKE AND TEMPORARY DOWN DRAINS ALONG THE TOP OF THE SLOPE PREVENTING DRAINAGE SPILLING OVER THE EDGE AND DOWN THE FACE OF THE SLOPE. THE TEMPORARY DOWN DRAINS SHALL BE CONSTRUCTED WITH PERFORATED STAND PIPES AT THE TOP OF THE SLOPE AND RECONSTRUCTED EACH DAY AS THE SLOPE INCREASES IN HIGHLY.

THE CONTRACTOR SHALL NOTIFY THE LICENSED PROFESSIONAL WHO PREPARED THIS PLAN IF MORE THAN 1320 GALLONS OF PETROLEUM IS STORED ON SITE (THIS INCLUDES CAPACITIES OF EQUIPMENT) OR IF ANY ONE PIECE OF EQUIPMENT HAS A CAPACITY GREATER THAN 660 GALLONS. THE CONTRACTOR WILL NEED A SPILL PREVENTION CONTAINMENT AND COUNTERMEASURES PLAN PREPARED BY THAT LICENSED PROFESSIONAL.

AMENDMENTS/REVISIONS TO THE ES&PC PLAN WHICH HAVE A SIGNIFICANT EFFECT ON BMPs WITH A HYDRAULIC COMPONENT MUST BE CERTIFIED BY THE DESIGN PROFESSIONAL.

ES&PC PLAN IS IN COMPLIANCE WITH WASTE DISPOSAL, SANITARY SEWER AND SEPTIC TANK REGULATIONS DURING AND AFTER CONSTRUCTION ACTIVITIES ARE COMPLETE. DUMPSTERS TO REMAIN COVERED. CONSTRUCTION WASTE MAY NOT BE BURIED ON SITE AND BE TAKEN TO A LANDFILL APPROVED FOR CONSTRUCTION WASTE. PORT-O-JOHNS TO BE USED, FURNISHED AND MAINTAINED BY A LICENSED PROVIDER. NO SEPTIC TO BE USED.

OFF SITE VEHICLE TRACKING:
A STABILIZED CONSTRUCTION EXIT HAS BEEN PROVIDED TO HELP REDUCE VEHICLE TRACKING OF SEDIMENT. SEE SHEET C-41.1 AND C-41.2 FOR CONSTRUCTION EXIT LOCATION AND DETAILS. THE PAVED STREET ADJACENT TO THE SITE EXIT WILL BE INSPECTED DAILY FOR TRACKING OF MUD, DIRT OR ROCKS. DUMP TRUCKS HAULING MATERIAL FROM THE CONSTRUCTION SITE WILL BE COVERED WITH TARPAULIN.

HAZARDOUS WASTES:
ALL HAZARDOUS WASTE MATERIALS WILL BE DISPOSED OF IN THE MANNER SPECIFIED BY LOCAL, STATE, AND/OR FEDERAL REGULATIONS OR BY THE MANUFACTURER OF SUCH PRODUCTS. THE JOB SITE SUPERINTENDENT, WHO WILL ALSO BE RESPONSIBLE FOR SEEING THAT THESE PRACTICES ARE FOLLOWED, WILL INSTRUCT SITE PERSONNEL IN THESE PRACTICES. MATERIAL SAFETY DATA SHEETS (MSDS) FOR EACH SUBSTANCE WITH HAZARDOUS PROPERTIES, THAT IS USED ON THE JOB SITE, WILL BE OBTAINED AND USED FOR THE PROPER MANAGEMENT OF POTENTIAL WASTE THAT MAY RESULT FROM THESE PRODUCTS. AN MSDS WILL BE POSTED IN THE IMMEDIATE AREA WHERE SUCH PRODUCT IS STORED AND/OR USED AND ANOTHER COPY OF EACH MSDS WILL BE MAINTAINED IN THE MSDS FILE AT THE JOB SITE CONSTRUCTION TRAILER OFFICE. EACH EMPLOYEE WHO MUST HANDLE A SUBSTANCE WITH HAZARDOUS PROPERTIES WILL BE INSTRUCTED ON THE USE OF MSDS SHEETS AND THE SPECIFIC INFORMATION IN THE APPLICABLE MSDS FOR THE PRODUCT HE/SHE IS USING. PARTIALLY REGARDING SPILL CONTROL TECHNIQUES.

THE CONTRACTOR WILL IMPLEMENT THE SPILL PREVENTION CONTROL AND COUNTERMEASURES (SPCC) PLAN FOUND WITHIN THIS ESPCP AND WILL TRAIN ALL PERSONNEL IN THE PROPER CLEANUP AND HANDLING OF SPILLED MATERIALS. NO SPILLED HAZARDOUS MATERIALS OR HAZARDOUS WATERS WILL BE ALLOWED TO COME IN CONTRACT WITH STORMWATER DISCHARGES. IF SUCH CONTACT OCCURS, THE STORMWATER DISCHARGE WILL BE CONTAINED ON SITE UNTIL APPROPRIATE MEASURES IN COMPLIANCE WITH STATE AND FEDERAL REGULATIONS ARE TAKEN TO DISPOSE OF SUCH CONTAMINATED STORMWATER. IT SHALL BE THE RESPONSIBILITY OF THE JOB SITE SUPERINTENDENT TO PROPERLY TRAIN ALL PERSONNEL IN THE USE OF THE SPCC PLAN.

SANITARY WASTE UNITS:
A MINIMUM OF ONE (1) PORTABLE SANITARY WASTE UNIT WILL BE PROVIDED FOR EVERY TEN (10) WORKERS ON THE SITE. ALL SANITARY WASTE WILL BE COLLECTED FROM THE PORTABLE UNITS A MINIMUM OF ONE TIME PER WEEK BY A LICENSED PORTABLE FACILITY PROVIDER IN COMPLETE COMPLIANCE WITH LOCAL AND STATE REGULATIONS.

ALL SANITARY WASTE UNITS WILL BE LOCATED IN ONE AREA WHERE THE LIKELIHOOD OF THE UNIT CONTRIBUTING TO STORM WATER DISCHARGE IS NEGLIGIBLE. ADDITIONAL CONTAINMENT BMP'S MUST BE IMPLEMENTED, SUCH AS GRAVEL BAGS OR SPECIALLY DESIGNED PLASTIC SKID CONTAINERS AROUND THE BASE, TO PREVENT WASTE FROM CONTRIBUTING TO STORM WATER DISCHARGES. THE LOCATION OF SANITARY WASTE UNITS MUST BE IDENTIFIED ON THE EROSION CONTROL PLAN INTERMEDIATE PHASE BY THE CONTRACTOR, ONCE THE LOCATIONS HAVE BEEN DETERMINED.

SANITARY SEWER WILL BE PROVIDED BY MUNICIPAL AUTHORITY/SEPTIC SYSTEM AT THE COMPLETION OF THIS PROJECT.

NO WASTE WILL BE DISPOSED OF INTO STORM WATER INLETS OR WATERS OF THE STATE:
WASTE MATERIALS: ALL WASTE MATERIALS WILL BE COLLECTED AND STORED IN A SECURELY LIDDED METAL DUMPSTER. THE DUMPSTER WILL MEET ALL SOLID WASTE MANAGEMENT REGULATIONS. ALL TRASH AND CONSTRUCTION DEBRIS FROM THE SITE WILL BE DEPOSITED IN THE DUMPSTER. THE DUMPSTER WILL BE EMPTIED A MINIMUM OF ONCE PER WEEK OR MORE OFTEN IF NECESSARY AND TRASH WILL BE HAULED AWAY AS REQUIRED BY LOCAL REGULATIONS. NO CONSTRUCTION WASTE WILL BE BURIED ON SITE.

ALL PERSONNEL WILL BE INSTRUCTED ON PROPER PROCEDURES FOR WASTE DISPOSAL. A NOTICE STATING THESE PRACTICES WILL BE POSTED AT THE JOB SITE AND THE CONTRACTOR WILL BE RESPONSIBLE FOR SEEING THAT THOSE PROCEDURES ARE FOLLOWED.

PERMIT COVERAGE

THIS PLAN HAS BEEN PREPARED TO MEET THE REQUIREMENTS UNDER THE STATE OF GEORGIA, DEPARTMENT OF NATURAL RESOURCES, ENVIRONMENTAL PROTECTION DIVISION (EPD), GENERAL PERMIT NO. GAR 100003 FOR AUTHORIZATION TO DISCHARGE UNDER THE NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM (NPDES), STORM WATER DISCHARGES ASSOCIATED WITH CONSTRUCTION ACTIVITY FOR COMMON DEVELOPMENT CONSTRUCTION PROJECTS

AUTHORIZED DISCHARGES

1. ALL DISCHARGES OF STORM WATER ASSOCIATED WITH CONSTRUCTION ACTIVITY THAT WILL RESULT IN LAND DISTURBANCE EQUAL TO OR GREATER THAN ONE ACRE. PART I.C.1.4.c
2. ALL DISCHARGES COVERED BY THIS PERMIT SHALL BE COMPOSED ENTIRELY OF STORM WATER EXCEPT AS PROVIDED IN PART I.C.2. AND PART III.A.2. OF THE PERMIT. PART III.A.1
3. AUTHORIZED MIXED STORM WATER DISCHARGES: PART I.C.2
   1. THE INDUSTRIAL SOURCE OR ACTIVITY OTHER THAN CONSTRUCTION IS LOCATED ON THE SAME SITE AS THE CONSTRUCTION ACTIVITY AND IS AN INTEGRAL PART OF THE CONSTRUCTION ACTIVITY.
   2. THE STORM WATER DISCHARGES ASSOCIATED WITH INDUSTRIAL ACTIVITY FROM THE AREAS OF THE SITE WHERE CONSTRUCTION ACTIVITIES ARE OCCURRING ARE IN COMPLIANCE WITH THE TERMS OF THIS PERMIT.
   3. STORM WATER DISCHARGES ASSOCIATED WITH INDUSTRIAL ACTIVITY FROM THE AREAS OF THE SITE WHERE INDUSTRIAL ACTIVITY OTHER THAN CONSTRUCTION ARE OCCURRING ARE COVERED BY A DIFFERENT NPDES GENERAL PERMIT OR INDIVIDUAL PERMIT AUTHORIZING SUCH DISCHARGES AND THE DISCHARGES ARE IN COMPLIANCE WITH A DIFFERENT NPDES PERMIT.
4. AUTHORIZED NON-STORM WATER DISCHARGES: PART III.A.2
   1. FIRE FIGHTING ACTIVITIES
   2. FIRE HYDRANT FLUSHING
   3. POTABLE WATER SOURCES INCLUDING WATER LINE FLUSHING
   4. IRRIGATION DRAINAGE
   5. AIR CONDITIONING CONDENSATE
   6. SPRINGS
   7. UNCONTAMINATED GROUND WATER
   8. FOUNDATION OR FOOTING DRAINS WHERE FLOWS ARE NOT CONTAMINATED WITH PROCESS MATERIALS OR POLLUTANTS

LIMITATIONS ON COVERAGE PART I.C.3

1. THE FOLLOWING STORM WATER DISCHARGES FROM CONSTRUCTION SITES ARE NOT AUTHORIZED BY THIS PERMIT:
   1. STORM WATER DISCHARGES ASSOCIATED WITH AN INDUSTRIAL ACTIVITY THAT ORIGINATE FROM THE SITE AFTER CONSTRUCTION ACTIVITIES HAVE BEEN COMPLETED AND THE SITE HAS UNDERGONE FINAL STABILIZATION.
   2. DISCHARGES THAT ARE MIXED WITH SOURCES OF NON-STORM WATER OTHER THAN DISCHARGES WHICH ARE IDENTIFIED IN PART III.A.2. OF THIS PERMIT AND WHICH ARE IN COMPLIANCE WITH PART IV.D.6. (NON-STORM WATER DISCHARGES) OF THIS PERMIT.
   3. STORM WATER DISCHARGES ASSOCIATED WITH INDUSTRIAL ACTIVITY THAT ARE SUBJECT TO AN EXISTING NPDES INDIVIDUAL OR GENERAL PERMIT. SUCH DISCHARGES MAY BE AUTHORIZED UNDER THIS PERMIT AFTER AND EXISTING PERMIT EXPIRES PROVIDED THE EXISTING PERMIT DID NOT ESTABLISH NUMERIC LIMITATIONS FOR SUCH DISCHARGES.
   4. STORM WATER DISCHARGES FROM CONSTRUCTION SITES THAT THE DIRECTOR (EPD) HAS DETERMINED TO BE OR MAY REASONABLY BE EXPECTED TO BE CONTRIBUTING TO A VIOLATION OF A WATER QUALITY STANDARD.
2. WHERE A RELEASE CONTAINING A HAZARDOUS SUBSTANCE IN AN AMOUNT EQUAL TO OR IN EXCESS OF A REPORTING QUANTITY ESTABLISHED UNDER EITHER GEORGIA'S OIL OR HAZARDOUS MATERIAL SPILLS OR RELEASES ACT (O.C.G.A. §§12-14-2, ET SEQ.), 40 CFR 117 OR 40 CFR 302 OCCURS DURING A 24 HOUR PERIOD, THE PERMITTEE IS REQUIRED TO NOTIFY THE FOLLOWING AGENCIES IN ACCORDANCE WITH THE ABOVE MENTIONED REGULATIONS AS SOON AS HE HAS KNOWLEDGE OF THE DISCHARGE: EPD AT (404) 656-4863 OR (800) 241-4113 THE NATIONAL RESPONSE CENTER (NRC) AT (800) 424-8802. PART III.B.1
3. THIS PERMIT DOES NOT AUTHORIZE THE DISCHARGE OF HAZARDOUS SUBSTANCES OR OIL RESULTING FROM AN ON SITE SPILL. PART III.B.2

WATER QUALITY COMPLIANCE PART I.C.4

ALL DISCHARGES AUTHORIZED BY THIS PERMIT SHALL NOT CAUSE VIOLATIONS OF GEORGIA'S IN-STREAM WATER QUALITY STANDARDS AS PROVIDED BY THE RULES AND REGULATIONS FOR WATER QUALITY CONTROL, CHAPTER 391-3-6-03.

MATERIALS AND SAFETY

This section is provided for informational purposes only. All Material Safety and Spill Prevention Control Contingency (SPCC) plans are to be in accordance with policies and procedures already in place.

A. Significant Materials Expected at Site Inventory:
Lime, Concrete mix, Steel reinforcing bars and related materials, Lumber, Diesel fuel and lubricating oils, Reinforced concrete pipe, Ductile iron pipe Steel pipe, Paints, Fertilizers

B. Spill Prevention and Response Procedures
Spill prevention and response includes "Good Housekeeping" as well as specific practices for certain products and established procedures for responding to spills which do occur.

C. Practices for Products, "Good Housekeeping"
1. Materials-An effort will be made to store only enough material required to do the job.
2. Storage-All materials stored on-site will be stored in a neat, orderly manner in their appropriate containers and stored in a covered area. If storage in covered area is not possible the materials will be covered with polyethylene or polypropylene sheeting to protect them from the elements.
3. Mixing-Substances will not be mixed with another unless recommended by the manufacture.
4. Labeling-Products will be kept in their original containers with the original manufacturer's label affixed to each container.
5. Disposal-Whenever possible, all of a product will be used before disposing of the container. Manufacture recommendations for proper use and disposal will be followed.
6. Inspections-The site superintendent will inspect the site [illegible] to ensure proper use and disposal of materials on-site.
7. Spoil materials-Any excavated earth that will not be used as fill material and all demolished pavement will be hauled off site immediately and disposed of property.

D. Specific Product Practices
1. Petroleum Products- All on-site vehicles will be monitored for leaks and receive preventive maintenance to reduce the chance of leakage. If petroleum products will be present on-site, they will be stored in tightly sealed containers, which are clearly labeled. If fuel is stored on-site, a Fuel storage area shall be provided. See Fuel Storage Detail. Any asphalt substances used on-site will be applied according to the manufacturer recommendations.
2. Concrete Trucks-Concrete trucks are not permitted to wash out on site.
3. Paints-All containers will be lightly sealed and stored when not required for use. Excess paint will not be poured into the storm sewer system but will be properly disposed of according to manufacturer's instructions or state and local regulations.
4. Fertilizers-Fertilizers used will be applied only in the minimum amounts recommended by the manufacturer. Once applied, fertilizer will be worked into the soil to limit exposure to storm water. The fertilizer will be stored in a covered area and any partially used bags will be transferred to a sealable plastic bin to avoid spills.

E. Spill Control and Response Practices
The contractor or the site superintendent will designate a spill prevention and response team. In addition, the following practices will be followed for spill cleanup.
1. Information - Manufacturers recommended methods for spill cleanup will be clearly posted, and site personnel will be made aware of the procedures and the location of the information and cleanup supplies.
2. Equipment - Materials and equipment necessary for spill cleanup will be present on the site at all times. Equipment and materials will include but not be limited to brooms, shovels, rags, gloves, goggles, absorbent materials (sand, sawdust, etc.) and plastic or metal trash containers specifically for this purpose. The materials and equipment necessary for spill cleanup will be dependent upon the nature and quantity of the materials stored on-site.
3. Response - Care shall be taken to prevent and contain any petroleum spills. In the event of a spill, appropriate remediation measures shall be immediately undertaken. These measures shall include removal of the contaminated soil, replacement of said soil, placing of petroleum tanks on above ground pad with surrounding berms to provide secondary containment to prevent leakage into any storm water system.
4. Ventilation - The spill area will be kept well ventilated, and personnel will wear appropriate protective clothing to prevent injury from contact with a hazardous substance.
5. Reporting - Spills of toxic of hazardous material (if present on site) will be reported to the appropriate state and local government agency, regardless of the size.
6. Record Keeping -The spill prevention plan will be modified to include measures to prevent this type of spill from reoccurring as well as improve methods for cleaning up future spills should they occur. A description of each spill, what caused it, and the cleanup measures used will be maintained with the plan.

Report Submittal (to be completed by Primary Permittee)

All written correspondence required by this permit shall be submitted by return receipt certified mail (or similar service) to the appropriate District Office of the E.D.P Inspections (to be completed by Primary Permittee)

(A) Permittee requirements.
(1). Each day when any type of construction activity has taken place at a primary permittee's site, certified personnel provided by the primary permittee shall inspect:
(a) all areas at the primary permittee's site where petroleum products are stored, used, or handled for spills and leaks from vehicles and equipment;
(b) all locations at the primary permittee's site where vehicles enter or exit the site for evidence of off-site sediment tracking;
(c) these inspections must be conducted until a Notice of Termination is submitted.
(2). Measure rainfall once every 24 hours except and non-working Saturday, non-working Sunday and non-working Federal holidays until a Notice of Termination is submitted. Measurement of rainfall may be suspended if all areas of the site have undergone final stabilization or established a crop of annual vegetation and a seeding of target perennials appropriate for the region.
(3). Certified personnel (provided by the primary permittee) shall inspect the following at least once every fourteen (14) days and within 24 hours of the end of a storm that is 0.5 inches rainfall or greater (unless such storm ends after 5:00PM on any Friday or on any non-working Saturday, non-working Sunday or any non-working Federal holiday in which case the inspection shall be completed by the end of the next business day and/or working day, whichever occurs first):
(a) disturbed areas of the primary permittee's construction site that have not undergone final stabilization;
(b) areas used by the permittee for storage of materials that are exposed to precipitation that have not undergone final stabilization; and
(c) structural control measures. Erosion and sedimentation control measures are identified in the Plan applicable to the primary permittee's site shall be observed to ensure that they are operating correctly. Where discharge locations or points are accessible, they will be inspected to ascertain whether erosion control measures are effective in preventing significant impacts to receiving water(s). For areas of a site that have undergone final stabilization, the permittee must comply with Part IV.D.4.a.(4). These inspections must be conducted until a Notice of Termination is submitted.
(4) Certified personnel (provided by the primary permittee) shall inspect at least once per month during the term of this permit (i.e., until a Notice of Termination is received by EPD) the areas of the site that have undergone final stabilization or established a crop of annual vegetation and a seeding of target perennials appropriate for the region. These areas shall be inspected for evidence of, or the potential for, pollutants entering the drainage system and the receiving water(s). Erosion and sediment control measures identified in the Plan shall be observed to ensure that they are operating correctly. Where discharge locations or points are accessible, they shall be inspected to ascertain whether erosion control measures are effective in preventing significant impacts to receiving water(s).
(5). Based on the results of each inspection, the site description and the pollution prevention and control measures identified in the Erosion, Sedimentation and Pollution Control Plan, the Plan shall be revised as appropriate not later than seven (7) calendar days following each inspection. Implementation of such changes shall be made as soon as practical but in no case later than seven (7) calendar days following each inspection. The primary permittee must amend the Plan in accordance with Part IV.D.4.b.(5). when a secondary permittee notifies the primary permittee of any Plan deficiencies.

(6). A report of each inspection that includes the name(s) of personnel making each inspection, the date(s) of each inspection, major observations relating to the implementation of the Erosion, Sedimentation and Pollution Control Plan, and actions taken in accordance with Part IV.D.4.a.(5). of the permit shall be made and retained at the site or be readily available at a designated alternate location until the entire site or that portion of a construction project that has been phased has undergone final stabilization and a Notice of Termination is submitted to EPD. Such reports shall be readily available by end of the second business day and/or working day and shall identify all incidents of best management practices that have not been properly installed and/or maintained as described in the Plan. Where the report does not identify an incident, the inspection report shall contain a statement that the best management practices are in compliance with the Erosion, Sedimentation and Pollution Control Plan. The report shall be signed in accordance with Part V.G.2. of this permit..

Maintenance

A description of procedures to ensure the timely maintenance of vegetation, erosion and sediment control measures and other protective measures identified in the site plan in good and effective operating condition.

Notice of Termination Eligibility

1. For infrastructure construction projects, by the permittee where the entire project has undergone final stabilization and all storm water discharges associated with construction activity that are authorized by this permit have ceased. Provided, however, that the permittee may submit a Notice of Termination after a phase(s) of the infrastructure construction project has undergone final stabilization and all storm water discharges associated with construction activity for that phase(s) that are authorized by this permit have ceased.
2. By the Owner or Operator or both when the Owner or Operator or both of the site changes. Where storm water discharges will continue after the identity of the Owner or Operator or both changes, the permittee must, prior to filing the Notice of Termination, notify any subsequent Owner or Operator or both of the permitted site as to the requirements of this permit.

The Notice of Termination Shall be Submitted by the following procedure (to be completed Primary Permittee)

All Notices of Termination by this permit shall be submitted by return receipt certified mail (or similar service) to the appropriate District Office of the EPD and to the local Issuing Authority in jurisdictions authorized to issue a Land Disturbance Activity permit for the permittee's construction site pursuant to O.C.G.A. 12-7-1, et seq.

4. Inspections.
a. Permittee requirements.
(1). Each day when any type of construction activity has taken place at a primary permittee's site, certified personnel provided by the primary permittee shall inspect: (a) all areas at the primary permittee's site where petroleum products are stored, used, or handled for spills and leaks from vehicles and equipment and (b) all locations at the primary permittee's site where vehicles enter or exit the site for evidence of off-site sediment tracking.. These inspections must be conducted until a Notice of Termination is submitted.
(2). Measure rainfall once every 24 hours except any non-working Saturday, non-working Sunday and non-working Federal holidays until a Notice of Termination is submitted. Measurement of rainfall may be suspended if all areas of the site have undergone final stabilization or established a crop of annual vegetation and a seeding of target perennials appropriate for the region.
(3). Certified personnel (provided by the primary permittee) shall inspect the following at least once every seven (7) calendar days and within 24 hours of the end of a storm that is 0.5 inches rainfall or greater (unless such storm ends after 5:00 PM on any Friday or on any non-working Saturday, non-working Sunday or any non-working Federal holiday in which case the inspection shall be completed by the end of the next business day and/or working day, whichever occurs first): (a) disturbed areas of the primary permittee's construction site ; (b) areas used by the primary permittee for storage of materials that are exposed to precipitation ; and (c) structural control measures. Erosion and sediment control measures identified in the Plan applicable to the primary permittee's site shall be observed to ensure that they are operating correctly. Where discharge locations or points are accessible, they shall be inspected to ascertain whether erosion control measures are effective in preventing significant impacts to receiving waters). For areas of a site that have undergone final stabilization or established a crop of annual vegetation and a seeding of target perennials appropriate for the region, the permittee must comply with Part IV.D.4.a.(4). These inspections must be conducted until a Notice of Termination is submitted.
(4). Certified personnel (provided by the primary permittee) shall inspect at least once per month during the term of this permit (i.e., until a Notice of Termination is received by EPD) the areas of the site that have undergone final stabilization or established a crop of annual vegetation and a seeding of target perennials appropriate for the region. These areas shall be inspected for evidence of, or the potential for, pollutants entering the drainage system and the receiving water(s). Erosion and sediment control measures identified in the Plan shall be observed to ensure that they are operating correctly. Where discharge locations or points are accessible, they shall be inspected to ascertain whether erosion control measures are effective in preventing significant impacts to receiving water(s).
(5). Based on the results of each inspection, the site description and the pollution prevention and control measures identified in the Erosion, Sedimentation and Pollution Control Plan, the Plan shall be revised as appropriate not later than seven (7) calendar days following each inspection. Implementation of such changes shall be made as soon as practical but in no case later than seven (7) calendar days following each inspection.
(6). A report of each inspection that includes the name(s) of certified personnel making each inspection, the date(s) of each inspection, construction phase (i.e., initial, intermediate or final), major observations relating to the implementation of the Erosion, Sedimentation and Pollution Control Plan, and actions taken in accordance with Part IV.D.4.a.(5). of the permit shall be made and retained at the site or be readily available at a designated alternate location until the entire site or that portion of a construction project that has been phased has undergone final stabilization and a Notice of Termination is submitted to EPD. Such reports shall be readily available by end of the second business day and/or working day and shall identify all incidents of best management practices that have not been properly installed and/or maintained as described in the Plan. Where the report does not identify any incidents, the inspection report shall contain a certification that the best management practices are in compliance with the Erosion, Sedimentation and Pollution Control Plan. The report shall be signed in accordance with Part V.G.2. of this permit.

6. Sampling Requirements.
This permit requires the monitoring of nephelometric turbidity in receiving water(s) or outfalls in accordance with this permit. This paragraph shall not apply to any land disturbance associated with the construction of single-family homes which are not part of a subdivision or planned common development unless five (5) acres or more will be disturbed. The following procedures constitute EPD's guidelines for sampling turbidity.
a. Sampling Requirements shall include the following:
(1) A USGS topographic map, a topographic map or a drawing (referred to as a topographic map) that is a scale equal to or more detailed than a 1:24000 map showing the location of the site or the stand alone construction; (a) the location of all perennial and intermittent streams and other water bodies as shown on a USGS topographic map, and all other perennial and intermittent streams and other water bodies located during mandatory field verification, into which the storm water is discharged and (b) the receiving water and/or outfall sampling locations. When the permittee has chosen to use a USGS topographic map and the receiving water(s) is not shown on the USGS topographic map, the location of the receiving water(s) must be hand-drawn on the USGS topo map from where the storm water(s) enters the receiving water(s) to the point where the receiving water(s) combines with the first blue line stream shown on the USGS topographic map;
(2). A written narrative of site specific analytical methods used to collect, handle and analyze the samples including quality control/quality assurance procedures. This narrative must include precise sampling methodology for each sampling location;
(3). When the permittee has determined that some or all outfalls will be sampled, a rationale must be included in the Plan for the NTU limit(s) selected from Appendix B. This rationale must include the size of the construction site, the calculation of the size of the surface water drainage area, and the type of receiving water(s) (i.e., trout stream or supporting warm water fisheries); and
(4). Any additional information EPD determines necessary to be part of the Plan. EPD will provide written notice to the permittee of the information necessary and the time line for submittal.
b. Sample Type. All sampling shall be collected by "grab samples" and the analysis of these samples must be conducted in accordance with methodology and test procedures established by 40 CFR Part 136 (unless other test procedures have been approved); the guidance doc titled "NPDES Storm Water Sampling Guidance Document, EPA 833-B-92-001" and guidance docs that may be prepared by the EPD.
(1). Sample containers should be labeled prior to collecting the samples.
(2). Samples should be well mixed before transferring to a secondary container.
(3). Large mouth, well cleaned and rinsed glass or plastic jars should be used for collecting samples. The jars should be cleaned thoroughly to avoid contamination.
(4). Manual, automatic or rising stage sampling may be utilized. Samples required by this permit should be analyzed immediately, but in no case later than 48 hours after collection. However, samples from automatic samplers must be collected no later than the next business day after their accumulation, unless flow through automated analysis is utilized. If automatic sampling is utilized and the automatic sampler is not activated during the qualifying event, the permittee must utilize manual sampling or rising stage sampling during the next qualifying event. Dilution of samples is not required. Samples may be analyzed directly with a properly calibrated turbidimeter. Samples are not required to be cooled.
(5). Sampling and analysis of the receiving water(s) or outfalls beyond the minimum frequency stated in this permit must be reported to EPD as specified in Part IV.E.
c. Sampling Points.
(1). For construction activities the primary permittee must sample all receiving water(s), or all outfall(s), or a combination of receiving water(s) and outfall(s). Samples taken for the purpose of compliance with this permit shall be representative of the monitored activity and representative of the water quality of the receiving water(s) and/or the storm water outfalls using the following minimum guidelines:
(a). The upstream sample for each receiving water(s) must be taken immediately upstream of the confluence of the first storm water discharge from the permitted activity (i.e., the discharge farthest upstream at the site) but downstream of any other storm water discharges not associated with the permitted activity. Where appropriate, several upstream samples from across the receiving water(s) may need to be taken and the arithmetic average of the turbidity of these samples used for the upstream turbidity value.
(b). The downstream sample for each receiving water(s) must be taken downstream of the confluence of the last storm water discharge from the permitted activity (i.e., the discharge farthest downstream at the site) but upstream of any other storm water discharge not associated with the permitted activity. Where appropriate, several downstream samples from across the receiving water(s) may need to be taken and the arithmetic average of the turbidity of these samples used for the downstream turbidity value.
(c). Ideally the samples should be taken from the horizontal and vertical center of the receiving water(s) or the storm water outfall channel(s).
(d). Care should be taken to avoid stirring the bottom sediments in the receiving water(s) or in the outfall storm water channel.
(e). The sampling container should be held so that the opening faces upstream.
(f). The samples should be kept free from floating debris.
(g). Permittees do not have to sample sheet flow that flows onto undisturbed natural areas or areas stabilized by the project. For purposes of this section, stabilized shall mean, for unpaved areas and areas not covered by permanent structures and areas located outside the waste disposal limits of a landfill cell that has been certified by EPD for waste disposal, 100% of the soil surface is uniformly covered in permanent vegetation with a density of 70% or greater, or landscaped according to the Plan (uniformly covered with landscaping materials in planned landscaped areas), or equivalent permanent stabilization measures as defined in the Manual (excluding a crop of annual vegetation and a seeding of target crop perennials appropriate for the region).
(h). All sampling pursuant to this permit must be done in such a way (including generally accepted sampling methods, locations, timing, and frequency) as to accurately reflect whether storm water runoff from the construction site is in compliance with the standard set forth in Parts III.D.3. or III.D.4.., whichever is applicable.
d. Sampling Frequency.
(1). The primary permittee must sample in accordance with the Plan at least once for each rainfall event described below. For a qualifying event, the permittee shall sample at the beginning of any storm water discharge to a monitored receiving water and/or from a monitored outfall location within in forty-five (45) minutes or as soon as possible.
(2). However, where manual and automatic sampling are impossible (as defined in this permit), or are beyond the permittee's control, the permittee shall take samples as soon as possible, but in no case more than twelve (12) hours after the beginning of the storm water discharge.
(3). Sampling by the permittee shall occur for the following qualifying events:
(a). For each area of the site that discharges to a receiving water or from an outfall, the first rain event that reaches or exceeds 0.5 inch with a storm water discharge that occurs during normal business hours as defined in this permit after all clearing and grubbing operations have been completed, but prior to completion of mass grading operations, in the drainage area of the location selected as the sampling location;
(b). In addition to (a) above, for each area of the site that discharges to a receiving water or from an outfall, the first rain event that reaches or exceeds 0.5 inch with a storm water discharge that occurs during normal business hours as defined in this permit either 90 days after the first sampling event or after all mass grading operations have been completed, but prior to submittal of a NOT, in the drainage area of the location selected as the sampling location, whichever comes first;
(c). At the time of sampling performed pursuant to (a) and (b) above, if BMPs in any area of the site that discharges to a receiving water or from an outfall are not properly designed, installed and maintained, corrective action shall be defined and implemented within two (2) business days, and turbidity samples shall be taken from discharges from that area of the site for each subsequent rain event that reaches or exceeds 0.5 inch during normal business hours* until the selected turbidity standard is attained, or until post-storm event inspections determine that BMPs are properly designed, installed and maintained;
(d). Where sampling pursuant to (a), (b) or (c) above is required but not possible (or not required because there was no discharge), the permittee, in accordance with Part IV.D.4.a.(6), must include a written justification in the inspection report of why sampling was not performed. Providing this justification does not relieve the permittee of any subsequent sampling obligations under (a), (b) or (c) above; and
(e). Existing construction activities, i.e., those that are occurring on or before the effective date of this permit, that have met the sampling required by (a) above shall sample in accordance with (b). Those existing construction activities that have met the sampling required by (b) above shall not be required to conduct additional sampling other than as required by (c) above.

*Note that the permittee may choose to meet the requirements of (a) and (b) above by collecting turbidity samples from any rain event that reaches or exceeds 0.5 inch and allows for sampling at any time of the day or week.

E. Reporting.
1. The applicable permittees are required to submit the sampling results to the EPD at the address shown in Part II.C. by the fifteenth day of the month following the reporting period. Reporting periods are months during which samples are taken in accordance with this permit. Sampling results shall be in a clearly legible format. Upon written notification, EPD may require the applicable permittee to submit the sampling results on a more frequent basis. Sampling and analysis of any storm water discharge(s) or the receiving water(s) beyond the minimum frequency stated in this permit must be reported in a similar manner to the EPD. The sampling reports must be signed in accordance with Part V.G.2. Sampling reports must be submitted to EPD until such time as a NOT is submitted in accordance with Part VI.
2. All sampling reports shall include the following information:
a. The rainfall amount, date, exact place and time of sampling or measurements;
b. The name(s) of the certified personnel who performed the sampling and measurements;
c. The date(s) analyses were performed;
d. The time(s) analyses were initiated;
e. The name(s) of the certified personnel who performed the analyses;
f. References and written procedures, when available, for the analytical techniques or methods used;
g. The results of such analyses, including the bench sheets, instrument readouts, computer disks or tapes, etc., used to determine these results;
h. Results which exceed 1000 NTU shall be reported as "exceeds 1000 NTU;" and
i. Certification statement that sampling was conducted as per the Plan.
3. All written correspondence required by this permit shall be submitted by return receipt certified mail (or similar service) to the appropriate District Office of the EPD according to the schedule in Appendix A of this permit. The permittee shall retain a copy of the proof of submittal at the construction site or the proof of submittal shall be readily available at a designated location from commencement of construction until such time as a NOT is submitted in accordance with Part VI. If an electronic submittal is provided by EPD then the written correspondence may be submitted electronically; if required, a paper copy must also be submitted by return receipt certified mail or similar service.

Retention of Records.
1. The primary permittee shall retain the following records at the construction site or the records shall be readily available at a designated alternate location from commencement of construction until such time as a NOT is submitted in accordance with Part VI:
a. A copy of all Notices of Intent submitted to EPD;
b. A copy of the Erosion, Sedimentation and Pollution Control Plan required by this permit;
c. The design professional's report of the results of the inspection conducted in accordance with Part IV.A.5. of this permit;
d. A copy of all sampling information, results, and reports required by this permit;
e. A copy of all inspection reports generated in accordance with Part IV.D.4.a. of this permit;
f. A copy of all violation summaries and violation summary reports generated in accordance with Part III.D.2. of this permit; and
g. Daily rainfall information collected in accordance with Part IV.D.4.a.(2). of this permit.
2. Copies of all Notices of Intent, Notices of Termination, inspection reports, sampling reports (including all calibration and maintenance records and all original strip chart recordings for continuous monitoring instrumentation) or other reports requested by the EPD, Erosion, Sedimentation and Pollution Control Plans, records of all data used to complete the Notice of Intent to be covered by this permit and all other records required by this permit shall be retained by the permittee who either produced or used it for a period of at least three years from the date that the NOT is submitted in accordance with Part VI. of this permit. These records must be maintained at the permittee's primary place of business or at a designated alternative location once the construction activity has ceased at the permitted site. This period may be extended by request of the EPD at any time upon written notification to the permittee.

NO PORTION OF THIS SITE DRAINS TO AN IMPAIRED STREAM SEGMENT THAT HAS BEEN LISTED FOR THE CRITERIA VIOLATED, "BIP-F" (IMPAIRED FISH COMMUNITY) OR "BIO-M (IMPAIRED MACROINVERTEBRATED COMMUNITY)

THE ESCAPE OF SEDIMENT FROM THE SITE SHALL BE PREVENTED BY THE INSTALLATION OF EROSION CONTROL MEASURES AND PRACTICES PRIOR TO LAND DISTURBING ACTIVITIES.

MONITORING SITE EVALUATIONS AND RECOMMENDATIONS

MONITORING SITE*	TYPE OF SITE*	TOTAL BASIN AREA (ACRES)	TOTAL BASIN AREA (SQ. MILES)	ONSITE BASIN AREA (ACRES)	MONITORING SITE RECOMMENDED BY V&M	NTU LIMIT FROM PERMIT**	TYPES OF RECEIVING WATERS (TROUT OR WARM)
MS-A	O	1.32	.002	1.03	YES	50	WARM
MS-B	O	1.56	.0022	1.37	YES	50	WARM

FROM APPENDIX "B" NTU TABLE FOR A WARM WATER STREAM

*KEY:
I: INFLOW
O: OUTFALL
RW-D: RECEIVING WATER- DOWNSTREAM OF SITE
RW-U: RECEIVING WATER- UPSTREAM OF SITE

** THE EROSION AND SEDIMENTATION ACT OF 1975 (OGCA12-7) REQUIRES THAT NTUS IN TROUT WATER STREAMS NOT EXCEED 10 NTUS ABOVE THE INFLOW ON THE RECEIVING WATER.

GSWCC Georgia Soil and Water Conservation Commission
Paul K Hammon
Level II Certified Design Professional
Certification Number 0000005740
Issued: 02/17/2009 Expires: ~~02/17/2012~~

EXPIRES: 05/10/2018 (AS RENEWED)

24 HR CONTACT
ROBERT WALKER
(478) 808-0192

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GEORGIA REGISTERED No. 031249 PROFESSIONAL ENGINEER PAUL K. HAMMON

Project Name: WISE AVENUE PARK
Project Number:
Drawn By: Ck'd By:
Date: Scale: As shown

Rev:	Description:	Date:
1.	SUBMITTED TO COUNTY	11/16/17
2.	REVISED PER COUNTY COMMENTS	03/12/18

NPDES
NOTES

C-03

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