

INDEX TO DRAWINGS

SHEET NO.	DESCRIPTION
-	TITLE SHEET
1	GENERAL CONSTRUCTION NOTES
2	EXISTING TOPOGRAPHIC CONDITIONS AND DEMOLITION PLAN
3	SITE LAYOUT AND LIGHTING PLAN
4	EROSION CONTROL PLAN - INITIAL PHASE
5	LANDFILL GAS COLLECTION PLAN
6	GRADING PLAN
7	PARKING AREA GRADING PLAN
8	EROSION CONTROL PLAN - INTERMEDIATE PHASE
9	UTILITY PLAN
10	EROSION CONTROL PLAN - FINAL PHASE
11	EROSION CONTROL NARRATIVE
12-19	MISCELLANEOUS DETAILS

IRRIGATION SYSTEM DESIGN

IR-1	IRRIGATION PLAN NORTH
IR-2	IRRIGATION PLAN SOUTH
IR-3	IRRIGATION NOTES AND DETAILS
IR-4 - IR-5	IRRIGATION DETAILS

ELECTRICAL SYSTEM DESIGN

E1	SITE PLAN - ELECTRICAL
E2	SCHEDULES, DETAIL & ONE LINE DIAGRAM

LEGEND

EXISTING	
PROPERTY LINE	
1' CONTOUR	
5' CONTOUR	
STRUCTURE	
CHAIN LINK FENCE	
GROUNDWATER MONITORING WELL	
METHANE MONITORING PROBE	
COMBINATION FOUL POLE AND GAS VENT	
LIGHT POLE	
GRAVEL AREA	
MULCH	
POWER POLE	
SANITARY SEWER LINE	
SANITARY SEWER MANHOLE	
STORMWATER GRATE INLET	
WATER LINE	
LFG COLLECTION TRENCH	
BENCHMARK	
PROPOSED	
1' CONTOUR	
5' CONTOUR	
COMBINATION FOUL POLE AND GAS VENT	
POWER POLE	
WATER LINE	
CHAIN LINK FENCE	
ASPHALT	
CONCRETE	
LIGHT POLE	
RETAINING WALL	
SPOT ELEVATION	
LFG COLLECTION TRENCH	

GENERAL NOTES:

- EXISTING TOPOGRAPHIC INFORMATION OF THE PROPOSED PHASE II PARK AREA PROVIDED BY KERN-COLEMAN & CO. LLC. IN A SURVEY TITLED, "WILMINGTON ISLAND LANDFILL" DATED 3-30-10.
- EXISTING PHASE I PARK AREA PHYSICAL FEATURE INFORMATION PROVIDED BY KERN-COLEMAN & CO. LLC. IN A SURVEY TITLED, "CHARLIE BROOKS PARK" DATED 5-4-11.
- EXISTING PHASE I PARK AREA CONTOUR INFORMATION AND ALL EXISTING BUILDINGS LOCATED OUTSIDE OF PARK PROPERTY WERE TAKEN FROM INFORMATION PROVIDED BY SAVANNAH AREA GIS IN AN EMAIL DATED 2-28-11. BUILDING LOCATIONS ARE THEREFORE ASSUMED TO BE APPROXIMATE.
- EXISTING GROUND WATER MONITORING WELLS AND METHANE MONITORING PROBES WERE PROVIDED BY KERN-COLEMAN & CO. LLC. IN A SURVEY TITLED, "CHARLIE BROOKS PARK" DATED 5-4-11.
- EXISTING LANDFILL GAS SYSTEM INFORMATION WAS PROVIDED BY KERN-COLEMAN & CO. LLC. IN A DRAWING TITLED, "AN EXHIBIT SHOWING THE COORDINATES OF UNDERGROUND PIPE SECTIONS", DATED 2-1-06.
- CONTRACTOR SHALL VERIFY LOCATION OF ALL KNOWN UTILITIES PRIOR TO CONSTRUCTION. CONTRACTOR IS RESPONSIBLE FOR REPAIR AND/OR REPLACEMENT DUE TO ANY DAMAGES TO THE EXISTING KNOWN UTILITIES RELATED TO CONSTRUCTION ACTIVITIES AT NO COST TO THE OWNER.
- CONTRACTOR SHALL PROVIDE ALL LABOR AND MATERIALS NECESSARY TO COMPLETE THIS PROJECT UNLESS OTHERWISE NOTED ON THESE PLANS AND SPECIFICATIONS.
- ALL AFFECTED UTILITY COMPANIES SHALL BE NOTIFIED AT LEAST 5 WORKING DAYS PRIOR TO ANY WORK ON SITE.
- HORIZONTAL AND VERTICAL CONTROL WILL BE ESTABLISHED BY CHATHAM COUNTY AND PROVIDED TO THE CONTRACTOR PRIOR TO CONSTRUCTION.
- THE CONTRACTOR SHALL FIELD VERIFY ALL ELEVATIONS AT ANY TIE-INS TO EXISTING FEATURES PRIOR TO CONSTRUCTION. ANY DIFFERENCES ENCOUNTERED SHALL BE BROUGHT TO THE ENGINEER'S ATTENTION IMMEDIATELY.
- UNCOVERED WASTE MAY BE RECOMPACTED INTO THE LANDFILL AS LONG AS THE WASTE IS COVERED WITH A MINIMUM OF 2' OF CLEAN SOIL FILL MATERIAL. CONTRACTOR SHALL BE RESPONSIBLE FOR PROPERLY DISPOSING OF ALL EXCAVATED WASTE BROUGHT TO THE SURFACE DURING GRADING AND CONSTRUCTION ACTIVITIES. DO NOT RECOMPACT WASTE TO THE LANDFILL BY PROVIDING ON-SITE WASTE CONTAINERS. THE EXCAVATED WASTE SHALL BE TRANSPORTED WITHIN TWENTY-FOUR HOURS TO AN EXISTING PERMITTED SOLID WASTE DISPOSAL FACILITY.
- ANY VOIDS CREATED DUE TO WASTE REMOVAL SHALL BE BACKFILLED WITH CLEAN SOIL FILL MATERIAL.
- CONTRACTOR SHALL REMOVE AND REPLACE OR REINSTALL ALL CURB BASES, DRAINAGE DROPPERS, DRAINAGE WALLS, STORM DRAINAGE PIPES, MAILBOXES, SIGNS, FENCES, POWER POLES, UTILITIES, MONITORING WELLS, SHROUBBERY, AND ANY OTHER PHYSICAL FEATURES DAMAGED DURING CONSTRUCTION AT NO COST TO THE OWNER.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR MAINTAINING THE INTEGRITY OF ALL GROUNDWATER AND METHANE MONITORING WELLS THROUGHOUT CONSTRUCTION. THE CONTRACTOR SHALL BE RESPONSIBLE FOR REPAIRING AND/OR REPLACING ANY WELLS DAMAGED DUE TO CONSTRUCTION ACTIVITIES AT NO COST TO THE OWNER.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR SECURING THE SITE WITH 6 FOOT HIGH SECURITY FENCING AROUND ENTIRE PROJECT AREA DURING CONSTRUCTION ACTIVITIES. THERE SHALL BE NO PENETRATIONS INTO THE LANDFILL CAP ASSOCIATED WITH THE SECURITY FENCING. THE FENCING SHALL BE SET ON GRADE AND SECURED UTILIZING SANDBAGS OR OTHER WEIGHTS AS NEEDED.
- NO SMOKING SIGNS SHALL BE PLACED AT ALL ENTRANCES, FIELDS, AND BLEACHER AREAS.
- ALL STRUCTURES ON THE SITE SHALL BE CONSTRUCTED IN A WAY THAT WILL NOT CAUSE THE ACCUMULATION OF METHANE. ENGINEER SUPPORT STRUCTURES SHALL BE SOLID WALLED OR PERMANENTLY SEALED.
- THIS PROJECT IS LOCATED ABOVE A CLOSED LANDFILL. THE CONTRACTOR SHALL EXERCISE CAUTION DURING ALL WORK ESPECIALLY THAT WHICH IS TO BE PERFORMED WITHIN CONFINED SPACES. LANDFILL GAS MAY BE PRESENT AT LEVELS THAT ARE EXHAUSTIVE AND/OR AT A LEVEL THAT DEPLETES SAFE OXYGEN CONCENTRATIONS.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR MAINTAINING A SAFE WORKING ENVIRONMENT THROUGHOUT THE DURATION OF THE PROJECT.
- THE CONTRACTOR SHALL COORDINATE WITH ALL APPROPRIATE PARTIES PRIOR TO THE INSTALLATION OF ALL UTILITIES WITHIN THE PARK.
- THE FOUNDATION DESIGN FOR THE SPORTS LIGHTING POLES HAS BEEN PROVIDED IN THE TECHNICAL SPECIFICATIONS. THE CONTRACTOR IS RESPONSIBLE FOR THE FOUNDATION DESIGN OF ALL OTHER STRUCTURES.
- ALL DISTURBED AREAS NOT COVERED BY OTHER SURFACES OR LEFT BARE WILL BE VEGETATED WITH SOD AT THE COMPLETION OF GRADING UNLESS OTHERWISE DIRECTED BY CHATHAM COUNTY.
- THE CONTRACTOR SHALL PROVIDE A HEALTH AND SAFETY PLAN THAT ADDRESSES ALL UNIQUE HAZARDS RELATED TO WORKING IN CLOSE PROXIMITY TO A SOLID WASTE FACILITY. THIS PLAN SHALL BE PROVIDED TO CHATHAM COUNTY AND THE GEORGIA ENVIRONMENTAL PROTECTION DIVISION PRIOR TO CONSTRUCTION TO BE INCLUDED IN THE FACILITY FILE.
- DUE TO WASTE POTENTIALLY CONTAINING ASBESTOS CONTAINING MATERIALS, THE CONTRACTOR SHALL BE RESPONSIBLE FOR ADHERING TO ALL STATE AND FEDERAL REQUIREMENTS PERTAINING TO THE POTENTIAL EXCAVATION AND WASTE HANDLING ACTIVITIES THAT MAY OCCUR DURING CONSTRUCTION.
- REGION 4 OF THE ENVIRONMENTAL PROTECTION AGENCY (EPA) PROVIDES ENFORCEMENT FOR ALL ASBESTOS NATIONAL EMISSION STANDARD FOR HAZARDOUS AIR POLLUTANTS (NESHAP) REGULATIONS; 40 CFR 61 SUBPART M. ALL EXCAVATION OPERATIONS SHALL BE CONDUCTED IN ACCORDANCE WITH THESE REGULATIONS.

U.S. EPA REGION 4 SAM NUNN ATLANTA FEDERAL CENTER 61 FORSYTH STREET, SW ATLANTA, GA 30303-8960	GEORGIA ENVIRONMENTAL PROTECTION DIVISION HAZARDOUS WASTE MANAGEMENT PROGRAM LEAD-BASED PAINT & ASBESTOS UNIT 4244 INTERNATIONAL PARKWAY, SUITE 104 ATLANTA, GA 30354
MAIN: (404) 562-9900	MAIN: (404) 363-7026
- CONTRACTOR MUST HAVE PERSONNEL TRAINED TO RECOGNIZE POTENTIAL ASBESTOS CONTAINING MATERIALS WHO SHALL BE PRESENT DURING ALL EXCAVATION AND TRENCHING OPERATIONS RELATED TO THE PROJECT.
- THE GEORGIA ENVIRONMENTAL PROTECTION DIVISION AND THE EPA REGION 4 OFFICE SHALL BE NOTIFIED 45 DAYS PRIOR TO THE COMMENCEMENT OF THE PROJECT TO INFORM THEM OF THE POTENTIAL EXCAVATION OF ASBESTOS CONTAINING MATERIALS. COPIES OF THE NOTIFICATION SHALL BE SENT TO THE SOLID WASTE DIVISION FOR INCLUSION IN THE FACILITY FILE. THE FOLLOWING INFORMATION SHALL BE PROVIDED IN THE NOTIFICATION:
 - SCHEDULED STARTING AND COMPLETION DATES.
 - REASON FOR DISTURBING THE WASTE.
 - PROCEDURES TO BE USED TO CONTROL EMISSIONS DURING THE EXCAVATION, STORAGE, TRANSPORT, AND ULTIMATE DISPOSAL OF THE EXCAVATED ASBESTOS-CONTAINING WASTE MATERIAL IF DEEMED NECESSARY. THE ADMINISTRATOR MAY REQUIRE CHANGES IN THE EMISSION CONTROL PROCEDURES TO BE USED.
 - LOCATION OF ANY TEMPORARY STORAGE SITE AND THE FINAL DISPOSAL SITE.
- IF ASBESTOS CONTAINING MATERIAL IS ENCOUNTERED THE CONTRACTOR SHALL NOTIFY THE ENVIRONMENTAL PROTECTION DIVISION AND THE EPA REGION 4 OFFICE 10 WORKING DAYS BEFORE THE EXCAVATION OF THE MATERIAL BEGINS. COPIES OF THE NOTIFICATION SHALL BE SENT TO THE SOLID WASTE DIVISION FOR INCLUSION IN THE FACILITY FILE.
- ANY EQUIPMENT THAT COMES IN CONTACT WITH WASTE DURING CONSTRUCTION ACTIVITIES SHALL BE IMMEDIATELY WASHED AND STEAM CLEANED UPON COMPLETION OF THE CONSTRUCTION ACTIVITIES.
- ANY WASH WATER SHALL BE CONTAINED ON-SITE WITHIN A LINED CONTAINMENT AREA TO BE FIELD LOCATED BY CONTRACTOR. WASH WATER WILL BE PUMPED AND HAULED OFF-SITE TO BE TREATED; NO DISCHARGE OF WASH WATER IS ALLOWED FROM THE SITE.
- THE FACILITY SHALL CONDUCT A PILOT TEST CONSISTING OF WEEKLY MONITORING FOR METHANE GAS IN THE AREAS OF NEW CONSTRUCTION FOR THREE MONTHS PRIOR TO THE PUBLIC BEING ALLOWED TO UTILIZE THE NEWLY CONSTRUCTED RECREATION AREA. UPON COMPLETION, THE RESULTS SHALL BE PROVIDED TO THE GEORGIA ENVIRONMENTAL PROTECTION DIVISION ALONG WITH ANY ADDITIONAL REMEDIAL MEASURES IF NECESSARY.
- A DETAILED CONSTRUCTION QUALITY ASSURANCE REPORT DESCRIBING THE METHODS USED AND RESULTS ACHIEVED IN MAINTAINING COMPLIANCE WITH THE RULES FOR SOLID WASTE MANAGEMENT SHALL BE PROVIDED UPON THE COMPLETION OF THE PROJECT, INCLUDING DOCUMENTATION DEMONSTRATING HOW THE INTEGRITY OF THE TWENTY-FOUR (24) INCH FINAL COVER SYSTEM WAS MAINTAINED AND AS-BUILT DRAWINGS OF ALL CONSTRUCTED STRUCTURES.
- THE FACILITY SHALL BE INSPECTED WEEKLY FOR LEAKS IN THE IRRIGATION SYSTEM. IF A LEAK IS DISCOVERED, IT SHALL BE REPAIRED IMMEDIATELY.

CITY OF SAVANNAH WATER GENERAL NOTES

- ALL CONSTRUCTION MATERIALS AND WORKMANSHIP SHALL BE IN ACCORDANCE TO THE CITY OF SAVANNAH'S LATEST CONSTRUCTION SPECIFICATIONS AND DETAILS. THE SYSTEM SHALL BE DESIGNED AND TESTED PER THE SPECIFICATIONS AND REQUIREMENTS MAINTAINED BY THE CITY ENGINEER.
- ALL MATERIALS USED AND COME INTO CONTACT WITH DRINKING WATER DURING ITS DISTRIBUTION SHALL NOT ADVERSELY AFFECT DRINKING WATER QUALITY AND PUBLIC HEALTH AND MUST BE CERTIFIED FOR CONFORMANCE WITH AMERICAN NATIONAL STANDARDS INSTITUTE/NATIONAL SANITATION FOUNDATION STANDARD 61 (ANSI/NSF STANDARD 61).
- IN ALL WATER LINE PROJECTS, CARE WILL BE TAKEN TO KEEP THE INTERIOR OF THE WATER PIPE CLEAN PRIOR TO CONNECTION TO THE CITY SYSTEM.
 - PIPE, FITTINGS, VALVES AND OTHER ACCESSORIES SHALL, UNLESS OTHERWISE DIRECTED, BE UNLOADED AT THE POINT OF DELIVERY, AND STORED WHERE THEY WILL BE PROTECTED AND WILL NOT BE HAZARDOUS TO TRAFFIC. THEY SHALL AT ALL TIMES BE HANDLED WITH CARE TO AVOID DAMAGE. THE INTERIOR OF ALL PIPES, FITTINGS AND OTHER ACCESSORIES SHALL BE KEPT FREE FROM DIRT AND FOREIGN MATTER AT ALL TIMES.
 - ANY DEFECTIVE, DAMAGED, OR UNSOUND PIPE SHALL BE REJECTED. ALL FOREIGN MATTER OR DEBRIS SHALL BE REMOVED FROM THE INSIDE OF THE PIPE BEFORE IT IS LOWERED INTO ITS POSITION IN THE TRENCH AND SHALL BE KEPT CLEAN BY APPROVED MEANS DURING AND AFTER LAYING. CARE SHALL BE TAKEN TO PREVENT DIRT FROM ENTERING THE JOINT SPACE. DURING INSTALLATION, WHEN PIPE LAYING IS NOT IN PROGRESS, A MECHANICAL JOINT PLUG OR CAP, OR APPROVED EQUAL, WILL BE USED TO FORM A WATER TIGHT SEAL AT BOTH ENDS OF THE LINE BEING LAID AND NO TRENCH WATER SHALL BE PERMITTED TO ENTER THE PIPE.
 - CLEAN THE INTERIORS OF ALL PIPES BY BRUSHING, SWABBING OR WASHING OUT OF ALL DIRT BEFORE LAYING. D. FLUSH THE NEW PIPE LINES UNTIL THE WATER RUNS CLEAR AT THE END OF ALL MAINS AND LATERALS. THIS SHOULD BE DONE AFTER THE PRESSURE TEST AND BEFORE DISINFECTION. BASED ON A 2.5 FEET/SECOND FLOW VELOCITY, THE MINIMUM FLUSH TIME NECESSARY TO PURGE THE LINE OF ANY FOREIGN MATERIAL IS MINUTES.
- ANY METER OR HYDRANT REMOVED FROM THE SITE SHALL BE RETURNED TO THE CONVEYANCE AND DISTRIBUTION DEPARTMENT.
- ALL WATER USED FOR CONSTRUCTION SHALL BE METERED THROUGH AN APPROVED BACKFLOW PREVENTION DEVICE AND FIRE HYDRANT METER OBTAINED FROM THE CONVEYANCE AND DISTRIBUTION DEPARTMENT.
- CONTACT THE UTILITIES PROTECTION CENTER (811 IN GEORGIA OR 1-800-282-7411) A MINIMUM OF SEVENTY-TWO (72) HOURS PRIOR TO DIGGING FOR LOCATION OF CITY WATER LINES.
- TRACER WIRE AS DEFINED IN SECTION 02550 OF THE SPECIFICATIONS SHALL BE INSTALLED ON ALL WATER SERVICE LATERALS FOR THE PROJECT.
- WATER LINES SHALL BE DISINFECTED AND TESTED IN ACCORDANCE WITH SECTION 02550 AS REQUIRED FOR WATER MAINS.
- ALL WATER SERVICE LINES SHALL BE HYDROSTATICALLY TESTED AS REQUIRED FOR NEW WATER MAINS IN SECTION 02550.

PROJECT ACTIVITY SCHEDULE									
ACTIVITY	MONTH 1	MONTH 2	MONTH 3	MONTH 4	MONTH 5	MONTH 6	MONTH 7	MONTH 8	MONTH 9
INSTALL EROSION CONTROL, INITIAL BMP'S AND MAINTAIN FOR THE ENTIRE PROJECT									
DEMOLITION AND SITE PREPARATION - REMOVAL OF EXISTING FENCE AND STRUCTURES TO BE RELOCATED									
INSTALL PROPOSED LANDFILL GAS COLLECTION SYSTEM AND PROPOSED METHANE MONITORING WELLS									
SITE PREPARATION - ALL GRADING AND EARTH WORK									
INSTALL ALL PARK AMENITIES AND STRUCTURES									
FINAL STABILIZATION - PERMANENT GRASSING, SODDING AND REMOVAL OF TEMPORARY BMP'S									
THREE (3) MONTH METHANE MONITORING PILOT TEST									

CALL FOR UTILITY LOCATIONS
PRIOR TO ANY EXCAVATIONS
1-800-282-7411



THREE WORKING DAYS BEFORE YOU DIG

**FOR BIDDING PURPOSES ONLY
NOT FOR CONSTRUCTION**

GENERAL CONSTRUCTION NOTES			
CONSTRUCTION PLANS			
CHARLIE BROOKS PARK - PHASE II			
SR 367 WILMINGTON ISLAND PH 2 - 025-058D(L)			
FOR CHATHAM COUNTY BOARD OF COMMISSIONERS			
CHATHAM COUNTY, GEORGIA			
HHNT			
HODGES, HARBIN, NEWBERRY & TRIBBLE, INC.			
(912) 298-0230 (PHONE)		17 PARK OF COMMERCE	
(912) 298-0234 (FAX)		BOULEVARD, SUITE 110	
SAVANNAH, GEORGIA 31405			
PROJ. NO.	1705-038-01	DWG.	CB-PH2-1-GN
SCALE	NOT TO SCALE		
DATE	AUGUST 2020		
			SHEET 1 OF 19