GEORGIA REGISTERED No. 36508 PROFESSIONAL ENGINEER JASON STOUGH

ON SITE CIVIL GROUP
980 BIRMINGHAM RD, SUITE 501-340, MILTON, GA 30004
PH 1: (404) 822-9147, PH 2: (678) 449-6938
WWW.ONSITECIVIL.COM
INFO@ONSITECIVIL.COM

GEORGIA REGISTERED No. 36508 PROFESSIONAL ENGINEER SOMMYA BULUSU

DEKALB COUNTY PUBLIC WORKS DEPARTMENT
SANITATION DIVISION
SEMINOLE ROAD LANDFILL
PHASE 3, UNIT 2, CELLS 1 AND 2
CONSTRUCTION DRAWINGS

DEKALB COUNTY
INVITATION TO BID (ITB)
NO. 18-101041

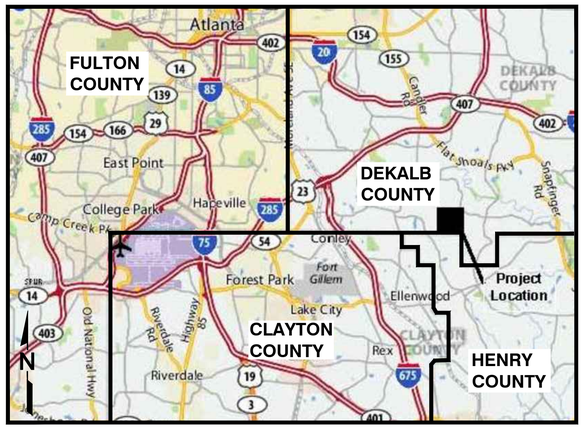
DEKALB COUNTY, GEORGIA

JANUARY 2019

DeKalb County
GEORGIA

RESPONSIBLE DIVISION

TRACY HUTCHINSON, DIVISION DIRECTOR
DEKALB COUNTY PUBLIC WORKS DEPARTMENT
SANITATION DIVISION
3720 LEROY SCOTT DRIVE
DECATUR, GEORGIA 30032



LOCATION MAP

Know what's below.
Call before you dig.

CALL UTILITIES PROTECTION CENTER NO LESS THAN THREE DAYS BEFORE ANY DIGGING OR BLASTING OPERATIONS COMMENCE. CALL MONDAY - FRIDAY 7:00 AM TO 7:00 PM AT 1.800.282.7411

DRAWING INDEX

DRAWING NO.		DRAWING TITLE
1	-	COVER SHEET
2	-	GENERAL NOTES AND LEGEND
3.1	-	OVERALL EXISTING CONDITIONS
3.2	-	DEMOLITION PLAN
3.3	-	OVERALL SITE PLAN
5.1	-	CELL 1 GRADING PLAN - TOP OF LINER
5.2	-	CELL 2 GRADING PLAN - TOP OF LINER
5.3	-	PLAN & PROFILES
5.4	-	PLAN & PROFILES
5.5	-	PLAN & PROFILES
5.6	-	PLAN & PROFILES
6.1	-	LEACHATE PLAN
6.2	-	LEACHATE PLAN (LEACHATE TANK)
7.1	-	EROSION CONTROL PLAN - INITIAL PHASE
7.2	-	EROSION CONTROL PLAN - PHASE 1 INTERMEDIATE
7.3	-	EROSION CONTROL PLAN - PHASE 1 FINAL
7.4	-	EROSION CONTROL PLAN - PHASE 2 INTERMEDIATE
7.5	-	EROSION CONTROL PLAN - PHASE 2 FINAL
7.6	-	EROSION CONTROL NOTES
7.7	-	EROSION CONTROL NOTES
7.8	-	EROSION CONTROL NOTES
8	-	CONSTRUCTION DETAILS
9	-	CONSTRUCTION DETAILS
10	-	CONSTRUCTION DETAILS
11	-	CONSTRUCTION DETAILS
12	-	CONSTRUCTION DETAILS
13	-	CONSTRUCTION DETAILS
14	-	CONSTRUCTION DETAILS
15	-	FOUNDATION DETAILS
16	-	FOUNDATION NOTES

LINECREST ROAD BORROW AREA (BY GOLDER ASSOCIATES)

1-10	-	SURFACE MINING AND LAND USE PLAN FOR LINECREST ROAD BORROW AREA

ISSUED FOR BID
DATE: 1/28/2019

REV	DATE	DESCRIPTION	BY

DRAWING TITLE: COVER SHEET
PROJECT TITLE: PHASE 3, UNIT 2, CELLS 1 AND 2 CONSTRUCTION DRAWINGS
CLIENT: DEKALB COUNTY SANITATION DIVISION

SCS ENGINEERS
STEARNS, CONRAD AND SCHMIDT
CONSULTING ENGINEERS
3175 SATELLITE BLVD. BLDG. 600, SUITE 100
DULUTH, GA 30096
678 319-9849 FAX 678 319-9851

PROJ. NO. 09218217.04
DSN. BY: JLS
DWN. BY: JLS/JWJR
CHK. BY: JWJR
QA/QC BY: JMS
APP. BY: JLS

CADD FILE: 1-7-19 DeKalb..
DATE: 1/28/2019
SCALE: AS SHOWN
DRAWING NO. 1

D:\Users\Vaten\Favorites\ONSITE Dropbox\Projects\2018\18-042 DeKalb County Landfill Engineering Contract\DWG\3-07-19 DeKalb Phase 3, Unit 2 (Addendum 2).dwg Mar 11, 2019 - 2:55pm Layout Name: C1 By: Jason

SITE LIMITATIONS
DEKALB COUNTY - SEMINOLE ROAD MUNICIPAL SOLID WASTE LANDFILL
PHASES 3 & 4 UPGRADE
AUGUST 12, 2003

1. THE AREA CONSIDERED FOR ACCEPTABILITY INCLUDES ONLY THAT AREA LOCATED NORTH OF THE GEORGIA POWER EASEMENT AND ENCLOSED BY THE LINE LABELED "PROPERTY LINE" AS SHOWN ON FIGURE 1-2: TOPOGRAPHIC AND HYDROGRAPHIC MAP, DATED NOVEMBER 2001, AND REVISED AUGUST 23, 2002.

2. A MINIMUM 500-FOOT BUFFER SHALL BE MAINTAINED BETWEEN THE WASTE DISPOSAL AREA AND ANY ADJACENT RESIDENTIAL STRUCTURES AND/OR WATER SUPPLY WELLS.

3. A MINIMUM 300-FOOT UNDISTURBED BUFFER SHALL BE MAINTAINED BETWEEN THE WASTE DISPOSAL AREA AND THE PROPERTY LINE.

4. NO WASTE SHALL BE PLACED WITHIN 50 FEET OF ANY WETLAND AREAS UNLESS OTHERWISE PERMITTED BY THE U.S. ARMY CORPS OF ENGINEERS.

5. DUE TO THE ERODABILITY OF THE ON-SITE SOILS, WASTE SHALL NOT BE PLACED WITHIN 100 FEET OF ANY STREAMS UNLESS A STREAM BUFFER VARIANCE IS GRANTED BY EPD. IF SUCH A VARIANCE IS GRANTED, ANY STREAM CAPTURING SYSTEMS SHALL INCLUDE DOUBLE LINERS THAT EXTEND AT LEAST 50 FEET FROM THE STREAM IN ALL CAPTURE AREAS.

6. IF, DURING EXCAVATION OF THE SITE, ANY ADDITIONAL SPRINGS OR SEEPS ARE DISCOVERED, EPD SHALL BE NOTIFIED IMMEDIATELY, AND PROTECTIVE DESIGNS SHALL BE INCORPORATED INTO THE FACILITY'S DESIGN AND OPERATIONAL PLANS, SUCH THAT THE SPRING OR SEEP CAN BE CAPTURED, PIPED, AND INCORPORATED INTO THE FACILITY'S GROUNDWATER MONITORING SYSTEM.

7. WASTE SHALL NOT BE PLACED WITHIN THE 100-YEAR FLOODPLAIN OF CONLEY CREEK.

8. THE BOTTOM OF THE LINER SYSTEM SHALL BE KEPT A MINIMUM OF 5 FEET ABOVE THE SEASONAL HIGH GROUNDWATER ELEVATION. AS THE SEASONAL HIGH GROUNDWATER ELEVATION HAS NOT BEEN DETERMINED FOR THE SITE, THE BOTTOM OF THE LINER SYSTEM SHALL BE KEPT AT LEAST 10 FEET FROM THE POTENTIOMETRIC CONTOURS: POTENTIOMETRIC SURFACE MAP, DATED NOVEMBER 2001 AND SIGNED/STAMPED ON OCTOBER 25, 2002. AN UNDERDRAIN SYSTEM MAY BE INSTALLED TO LOWER THIS LIMITATION TO 5 FEET ABOVE THE POTENTIOMETRIC CONTOURS IF AN UNDERDRAIN SYSTEM IS INSTALLED AT THE SITE, THE PROJECT ENGINEER SHALL MAKE PERIODIC QUALITY CONTROL INSPECTIONS WHILE THE UNDERDRAIN SYSTEM IS UNDER CONSTRUCTION, AND SHALL CERTIFY THAT IT HAS BEEN PROPERLY DESIGNED AND INSTALLED TO KEEP GROUNDWATER FROM COMING TO WITHIN 5 FEET OF THE BOTTOM OF THE LINER SYSTEM.
THE BOTTOM OF THE LINER SYSTEM SHALL ALSO BE KEPT A MINIMUM OF 5 FEET ABOVE BEDROCK ELEVATIONS. IF BEDROCK IS ENCOUNTERED ABOVE GROUNDWATER DURING CONSTRUCTION OF THE SITE, AT LEAST 5 FEET OF CLEAN, RUBBLE-FREE SOIL SHALL BE PLACED BETWEEN THE BEDROCK AND THE BOTTOM OF THE LINER SYSTEM.

9. ALL BORINGS/PIEZOMETERS LOCATED IN THE PROPOSED WASTE FOOTPRINT SHALL BE ABANDONED IN ACCORDANCE WITH THE WATER WELL STANDARDS ACT. THE WELL CASING SHALL BE REMOVED, AND THE BORINGS SHALL BE OVERDRILLED AND FILLED WITH A NON-SHRINKING CEMENT/BENTONITE MIXTURE VIA TREMIE PIPE TO WITHIN 10 FEET OF THE MAXIMUM DEPTH OF WASTE. WITHIN 10 FEET OF THE MAXIMUM DEPTH OF WASTE, THE BORING CAN BE FILLED WITH BENTONITE. ANY REMAINING ANNULAR SPACE CAN BE BACKFILLED WITH SOIL CUTTINGS. THE ABANDONMENT OF ALL WELLS SHALL BE SUPERVISED BY A PROFESSIONAL GEOLOGIST (PG) OR PROFESSIONAL ENGINEER (PE) REGISTERED TO PRACTICE IN THE STATE OF GEORGIA. THE SUPERVISING PG/PE SHALL SUBMIT A REPORT OF THE ABANDONMENT TO EPD AND CERTIFY THAT THE BORINGS/PIEZOMETERS WERE ABANDONED IN ACCORDANCE WITH THE WATER WELL STANDARDS ACT.

10. AS THE SITE IS LOCATED WITHIN A SEISMIC IMPACT ZONE, ALL DESIGN ENGINEERING DRAWINGS INCLUDED IN THE DESIGN AND OPERATIONAL PLAN SHALL STIPULATE THAT ALL STRUCTURES ARE ENGINEERED TO WITHSTAND A MAXIMUM HORIZONTAL ACCELERATION OF 0.12G.

11. GROUNDWATER AND METHANE MONITORING SYSTEMS, CONFORMING TO EPD'S RULES OF SOLID WASTE MANAGEMENT AND CURRENT GUIDANCE, SHALL BE INSTALLED AT THE SITE. DEEP WELLS SHALL BE INSTALLED AS PART OF THE GROUNDWATER MONITORING NETWORK. ALSO, THE OUTFLOW OF ANY UNDERDRAINS SHALL BE SAMPLED AS PART OF THE GROUNDWATER MONITORING PLAN.

12. ALL EROSION CONTROL MEASURES AND/OR DIVERSION DITCHES SHALL CONFORM TO THE EROSION AND SEDIMENT CONTROL ACT AND BE PROTECTIVE OF CONLEY CREEK AND ANY ASSOCIATED PERENNIAL OR INTERMITTENT TRIBUTARIES.

GENERAL NOTES:

1. JURISDICTIONAL AREAS DELINEATED BY ARCADIS, GERAGHTY & MILLER MARCH-JUNE 2000. CORPS OF ENGINEERS PERMIT NO. 200102070, ISSUED 8/22/03.

2. THE DESIGN AND OPERATIONS PLANS FOR PHASE 3 AND 4 THAT WERE APPROVED IN 2005 AND DESIGNED BY ARCADIS WILL SERVE AS THE LAND DISTURBANCE PERMIT FOR THIS PHASE OF CONSTRUCTION.

3. DAMAGE TO EXISTING GAS COLLECTION CONTROL SYSTEM (GCCS) AS A RESULT OF THE CONTRACTOR SHALL BE REPAIRED WITHIN 24 HOURS OF THE DAMAGE BY A QUALIFIED COMPANY APPROVED IN WRITING BY DEKALB COUNTY. UPON BID AWARD AND PRIOR TO COMMENCEMENT OF ANY CONSTRUCTION, THE CONTRACTOR SHALL SUBMIT TO THE OWNER THE NAME AND COMPANY RESUME OF THE SUBCONTRACTOR PROPOSED FOR REPAIRS TO THE EXISTING GCCS.

4. THE CONTRACTOR SHALL REMOVE AND PROPERLY DISPOSE OF ALL CONSTRUCTION WASTE AND DEBRIS FROM THE PROJECT SITE.

5. THE CONTRACTOR SHALL NOT ENTER BUFFER, RESTORATION, OR RESTRICTED AREAS WITHOUT PRIOR OWNER APPROVAL.

6. LOCATIONS OF UTILITIES AND GAS SYSTEM COMPONENTS ARE APPROXIMATE. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO FIELD LOCATE UTILITIES AND GAS SYSTEM COMPONENTS PRIOR TO CONSTRUCTION.

7. THE CONTRACTOR SHALL PROTECT WETLANDS, BUFFERS, AND WELLS FROM DISTURBANCE. ANY DAMAGE TO MONITORING WELLS OR SYSTEMS RESULTING FROM THE CONTRACTOR'S OPERATION WILL BE REPAIRED OR REPLACED (AT THE OWNER'S DISCRETION) AT THE CONTRACTOR'S EXPENSE.

8. TREE LINES SHOWN ON THE PLAN ARE APPROXIMATE AND MAY NOT REPRESENT ACTUAL CONDITIONS.

9. THE CONTRACTOR SHALL CLEAN ACCUMULATED SEDIMENT FROM ALL AFFECTED EXISTING AND PROPOSED PONDS AT THE DIRECTION OF THE ENGINEER.

10. UNSUITABLE MATERIALS SHALL BE BLENDED INTO COMMON SOILS STOCKPILED AND COORDINATED WITH DEKALB SANITATION.

11. CLEARING DEBRIS SHALL BE HAULED TO THE COMPOSTING AREA. STUMPS SHALL BE CLEAN OF DIRT OR THEY SHALL BE PLACED IN THE C&D AREA AND COORDINATED WITH DEKALB SANITATION.

12. IT IS THE CONTRACTORS' RESPONSIBILITY TO VERIFY ALL SOIL PROPERTIES USED FOR STRUCTURAL FILL. SEE SPECIFICATIONS FOR EARTHWORK.

13. ALL STRUCTURAL FILL SHALL BE TAKEN FROM THE MINING AREAS SHOWN IN THESE DRAWINGS AND SPECIFICATIONS. IF THESE ARE NOT ADEQUATE, THE COUNTY MAY ALLOW THE USE OF OTHER ON-SITE BORROW AREAS.

14. IT IS THE CONTRACTORS' RESPONSIBILITY TO PROVIDE ANY NPDES SAMPLING. THE COUNTY WILL PROVIDE MONITORING OF EROSION AND SEDIMENT CONTROL DEVICES THROUGH THE CQA FIRM WHICH EMPLOYS QUALIFIED E&S INSPECTORS.

EROSION CONTROL NOTES:

1. CONTRACTOR SHALL NOT BEGIN CLEARING, GRUBBING, OR SEDIMENT PONDS UNTIL AFTER PROPER EROSION CONTROL MEASURES HAVE BEEN INSTALLED.

2. THE LOCATION OF SOME OF THE EROSION CONTROL DEVICES MAY BE FIELD LOCATED 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 ANY PHASE OF CONSTRUCTION. ANY CHANGES TO THE PROPOSED DRAINAGE PATTERNS SHALL BE REPORTED TO THE ENGINEER IMMEDIATELY.

3. THE LOCATIONS OF EROSION CONTROL DEVICES SHALL BE ADJUSTED AS CONSTRUCTION PROGRESSES IN ORDER TO MAINTAIN A FUNCTIONING EROSION CONTROL SYSTEM.

4. EROSION CONTROL MEASURES SHALL BE MAINTAINED AT ALL TIMES. ADDITIONAL EROSION AND SEDIMENT CONTROL MEASURES AND PRACTICES SHALL BE INSTALLED IF DEEMED NECESSARY BY INSPECTIONS.

5. SEDIMENT AND EROSION CONTROL MEASURES AND PRACTICES SHALL BE INSPECTED AFTER EACH RAINFALL EVENT AND ROUTINELY AS NECESSARY.

6. EROSION CONTROL DEVICES SHALL BE CLEANED WHEN THEY BECOME HALF FILLED WITH SEDIMENT OR UNLESS SPECIFIED OTHERWISE. SEDIMENT REMOVED SHALL BE MANAGED ON-SITE AND IS THE CONTRACTOR'S RESPONSIBILITY.

7. EROSION CONTROL DEVICES SHALL BE REPAIRED AS NECESSARY TO MAINTAIN A FUNCTIONING EROSION CONTROL SYSTEM AND IS THE CONTRACTOR'S RESPONSIBILITY.

8. EROSION CONTROL DEVICES SHALL BE MAINTAINED UNTIL PERMANENT COVER IS ESTABLISHED AND THEN REMOVED SO THAT DRAINAGE FROM THE SITE IS NOT IMPEDED.

9. STORM WATER DETENTION/SEDIMENT BASIN DEVICES SHALL BE CLEANED, AND STABILIZED AFTER PERMANENT GROUND COVER HAS BEEN ESTABLISHED.

10. ANY DISTURBED AREA TO BE LEFT EXPOSED FOR A PERIOD GREATER THAN 30 DAYS SHALL BE STABILIZED WITH TEMPORARY SEEDING.

11. ALL DISTURBED AREA WITH SLOPES 3:1 OR FLATTER WHICH ARE NOT STABILIZED BY OTHER MEASURES SHALL BE SEEDED AS SPECIFIED IN THE VEGETATIVE PLAN OR REQUIRED BY ON SITE MANAGEMENT.

12. ALL DISTURBED AREAS TO BE GRASSED AS SOON AS CONSTRUCTION PHASES PERMIT OR REQUIRED BY ON SITE MANAGEMENT TO ENSURE THAT THEIR LOCATION DOES NOT VIOLATE ANY BUFFER REQUIREMENTS.

13. SEDIMENT PONDS SHALL BE STAKED OUT PRIOR TO ANY CONSTRUCTION ACTIVITY.

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

15. ALL EROSION CONTROL LABELS ARE SHOWN AS TYPICAL.

16. DESIGN GRADES SHOWN WITHIN THE LINER LIMITS ARE TOP OF LINER. ALL OTHER GRADES ARE FINISH GRADES.

17. TRIBUTARY BUFFER REQUIRED IS 25 FT.

18. THE COUNTY WILL SUPPLY PONDS, STREAMS, AND OTHER METHODS FOR THE CONTRACTORS USE FOR DUST CONTROL. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO SUPPLY 6-INCH PUMPS AND HOSES TO CONNECT TO THE COUNTY'S WATER TOWERS AND WATER LOCATIONS. METERS WILL BE REQUIRED AT ALL LOCATIONS WHERE WATER IS USED. GALLONS OF WATER USED SHALL BE RECORDED AND KEPT ON-SITE FOR THE DURATION OF THE PROJECT FOR REPORTING PURPOSES IF NECESSARY. NO ADDITIONAL METER WILL BE REQUIRED TO BE CONNECTED TO THE COUNTY WATER SYSTEM FOR DUST CONTROL.

19. THE CONTRACTOR SHALL PROTECT WETLANDS, BUFFERS, AND WELLS FROM DISTURBANCE. ANY DAMAGE TO MONITORING WELLS OR SYSTEMS RESULTING FROM THE CONTRACTOR OPERATION WILL BE REPAIRED OR REPLACED (AT THE OWNER'S DISCRETION) AT THE CONTRACTOR'S EXPENSE.

GENERAL PROJECT DESCRIPTION:

1. PHASE 3, UNIT 2, CELLS 1 AND 2 AND A 250,000 GALLON LEACHATE TANK IS TO BE CONSTRUCTED IN 2 SEPARATE PHASES.

   PHASE 1 - CELL 1 IS TO BE CONSTRUCTED AND CERTIFIED FOR WASTE PRIOR TO CELL 2. THE 250,000 GALLON LEACHATE TANK IS TO BE CONSTRUCTED WITH PHASE 1 OF THE PROJECT. PHASE 1 WORK SHALL BE COMPLETED AND APPROVED FOR WASTE PRIOR TO CELL CONSTRUCTION BEGINNING IN CELL 2.

   PHASE 2 - ONCE CELL 1 IS CERTIFIED FOR WASTE AND THE LEACHATE TANK IS INSTALLED, CELL 2 IS TO BE CONSTRUCTED AND CERTIFIED. ACCESS ROADS TO BE PHASED TO ALLOW FOR DAILY COUNTY OPERATIONS.

2. SOIL EXCAVATION FROM AN APPROXIMATE 15.5-ACRE AREA SOUTH OF THE LANDFILL. THIS EXCAVATION WILL BE PERFORMED UNDER AN EXISTING MINING PERMIT. EXCAVATED SOILS SHALL BE SEGREGATED BY SOIL TYPE AND USED TO CONSTRUCT ACCESS ROADS AND PHASE 3, UNIT 2.

3. ROCK EXCAVATION TO ACHIEVE DESIGN BASE GRADES IN PHASE 3, UNIT 2, CELLS 1 AND 2.

4. SOIL EXCAVATION AND BACKFILL TO ACHIEVE DESIGN BASE GRADES IN PHASE 3, UNIT 2.

5. DEMOLITION OF EXISTING STORM STRUCTURES AS PART OF NEW CELL AND ACCESS ROAD CONSTRUCTION.

6. INSTALLATION OF AN UNDERDRAIN SYSTEM CONSISTING OF COLLECTION PIPING AND DRAINAGE STONE. CONTRACTOR TO EXCAVATE TO DETERMINE LIMITS OF EXISTING UNDERDRAIN.

7. INSTALLATION OF A COMPOSITE LINER SYSTEM INCLUDING: COMPACTED CLAY SUBBASE, SECONDARY 60-MIL HDPE GEOMEMBRANE LINER, SECONDARY GEOCOMPOSITE, GEOSYNTHETIC CLAY LINER (GCL), PRIMARY 60-MIL HDPE GEOMEMBRANE LINER, PRIMARY GEOCOMPOSITE, AND 24 INCHES OF PROTECTIVE COVER.

8. INSTALLATION OF LEACHATE COLLECTION PIPING AND LEACHATE EXTRACTION RISERS.

9. CONSTRUCTION OF STORMWATER MANAGEMENT CONTROLS INCLUDING PIPE, OUTLET STRUCTURES, AND MANHOLES.

10. INSTALLATION OF EROSION CONTROL MEASURES INCLUDING: SILT FENCE, CHECK DAMS, TEMPORARY/PERMANENT GRASSING, TEMPORARY/PERMANENT SEDIMENT BASINS, MATTING, AND BLANKETS.

11. INSTALLATION OF A NEW 250,000 GALLON LEACHATE TANK ADJACENT TO THE EXISTING TANK ON THE NORTH SIDE OF PHASE 3. THIS INSTALL WILL OCCUR IN PHASE 1 OF THE CONSTRUCTION.

GENERAL NOTES FOR BORROW AREA:

1. PROPERTY LINE INFORMATION FROM "SEMINOLE ROAD MUNICIPAL SOLID WASTE LANDFILL (MSWLF) PHASE 3 AND 4 UPGRADE DESIGN AND OPERATION PLANS", SHEET 2.3, UPDATED AUGUST 16, 2002.

2. THE AREA OWNED BY DEKALB COUNTY IS 1,134 ACRES. THIS PHASE OF THE BORROW SITE IS 15.5 ACRES OF UNDISTURBED PASTURE IN DEKALB COUNTY OFF LINECREST ROAD. THE SITE WILL BE DISTURBED FOR SEMINOLE ROAD MSWLF BORROW AREA.

3. NO GRADING SHALL OCCUR WITHIN 25' OF ANY POWER POLES, GUY WIRES, OR ANY OTHER FEATURE ASSOCIATED WITH THE STRUCTURAL SUPPORT OF THE EXISTING POWER LINES. NECESSARY PERMITS ARE REQUIRED.

4. PROPOSED GRADES IN THE MINING AREA SHALL BE ACHIEVED AND HAULED AND STOCKPILED ON THE LANDFILL SITE. SOIL REQUIRED TO BUILD THE CELL AND ACCESS ROADS SHALL BE INSTALLED ACCORDING TO THE PLANS AND SPECS. THE ADDITIONAL SOIL SHALL BE STOCKPILED ON-SITE IN A LOCATION SPECIFIED BY THE COUNTY.

5. ANY ROCK ENCOUNTERED IN THE BORROW PIT SHALL BE REMOVED BY AN EXCAVATOR OR A DOZER. NO ROCK SHALL BE BLASTED IN THE BORROW PIT AREA. ANY ROCK ENCOUNTERD IN THE BORROW PIT AREA SHALL BE LOCATED AND REPORTED TO THE ENGINEER IMMEDIATELY.

GENERAL NOTES:

1. BOUNDARY INFORMATION FROM "BOUNDARY SURVEY OF SEMINOLE ROAD LANDFILL". BY ARCADIS, GERAGHTY AND MILLER DATED JUNE, 2001, REV. 8/16/02.

2. TOPOGRAPHIC INFORMATION BASED ON AERIAL SURVEY BY SOUTHERN RESOURCES MAPPING CORPORATION, DATED AUGUST 2018.

3. LOCATIONS OF PIEZOMETERS/BORINGS, ROCK OUTCROPS, EXISTING WELLS FROM "REVISED SITE ACCEPTABILITY REPORT, SEMINOLE ROAD LANDFILL", BY ARCADIS, DATED 11/30/01.

4. 100-YEAR FLOOD PLAIN INDICATED AS SHOWN ON F.I.R.M. PANEL NO. 13089C0142J, DATED MAY 16, 2013.

5. JURISDICTIONAL AREAS DELINEATED BY ARCADIS, GERAGHTY & MILLER, MARCH-JUNE 2000. CORPS OF ENGINEERS CONDITIONAL PERMIT NO. 200102070, ISSUED 8/22/03.

6. CONTRACTOR SHALL BE RESPONSIBLE FOR PROVIDING SAMPLING IN ACCORDANCE WITH NPDES STORMWATER PERMIT GAR100001 FOR THE PHASE 3, UNIT 2 CONSTRUCTION AND OFFSITE BORROW AREAS.

7. EXCESS MATERIAL SHALL BE PLACED IN THE STOCKPILE AREA INDICATED ON THE DRAWINGS.

8. ANY DAMAGE TO THE EXISTING GAS COLLECTION CONTROL SYSTEM (GCCS) IS A RESULT OF THE CONTRACTOR SHALL BE REPORTED TO THE ENGINEER IMMEDIATELY AND REPAIRED WITHIN 24 HOURS OF THE DAMAGE BY A QUAILIFIED COMPANY APPROVED IN WRITING BY DEKALB COUNTY. UPON BID AWARD AND PRIOR TO COMMENCEMENT OF ANY CONSTRUCTION THE CONTRACTOR SHALL SUBMIT TO THE OWNER THE NAME AND COMPANY RESUME OF THE SUBCONTRACTOR PROPOSED FOR REPAIRS TO THE EXISTING GCCS.

SURVEY NOTE:
EXISTING CONDITIONS BASED OFF AN AERIAL TOPOGRAPHIC SURVEY PREPARED BY SOUTHERN RESOURCES MAPPING CORPORATION, DATED 8/18 . CONTRACTORS AND SUB-CONTRACTORS ARE RESPONSIBLE FOR VERIFICATION OF FIELD CONDITIONS.

GENERAL NOTES:

1. PROPOSED LANDFILL CELL SLOPES SHALL NOT BE STEEPER THAN 3:1.

2. SOD SHALL BE USED ON ALL INTERIOR POND SLOPES AND IN ALL GRASSED DITCHES.

3. CONTRACTOR SHALL PROVIDE AND INSTALL 6-INCH SIZE STORMWATER PUMPS AND GENERATORS IN LOCATIONS INDICATED ON THE DRAWINGS. PUMPS AND GENERATORS SHALL BE LEFT FOR OWNERS USE AFTER PROJECT IS COMPLETE.

4. THE CONTRACTOR SHALL OPERATE STORMWATER PUMPS DURING CONSTRUCTION UNTIL EPD ACCEPTANCE OF CELL CONSTRUCTION.

5. EXISTING GRADES SHOWN ARE FROM A FLOWN TOPO DONE IN AUGUST 2018. PROPOSED GRADES SHOWN WITHIN THE LIMITS OF LINER REPRESENT THE TOP OF THE PRIMARY 60-MIL LINER. PROPOSED GRADES SHOWN OUTSIDE THE LIMITS OF LINER ARE FINISHED GRADES PER THE DETAILS.

6. NECESSARY BARRICADES, SUFFICIENT LIGHTS, SIGNS, AND OTHER TRAFFIC CONTROL METHODS AS MAY BE NECESSARY FOR THE PROTECTION AND SAFETY OF THE PUBLIC SHALL BE PROVIDED AND MAINTAINED THROUGHOUT THE CONSTRUCTION PROJECT. THIS ALSO INCLUDES ANY TRAFFIC CONTROL NECESSARY FROM THE LINECREST BORROW AREA.

7. PIPING MAY BE DEFLECTED SLIGHTLY AS NECESSARY TO UTILIZE STANDARD FITTINGS, PER MANUFACTURER'S SPECS.

8. NO EQUIPMENT OR MATERIAL STORAGE IS ALLOWED IN GEORGIA POWER EASEMENT, ATLANTA GAS LIGHT EASEMENT, OR SEWER EASEMENT WITHOUT NECESSARY PERMITS.

9. PRIOR TO CONSTRUCTION THE CONTRACTOR SHALL LOCATE AND/OR FIELD VERIFY EXISTING MONITORING WELL, BORINGS, PIEZOMETERS, UTILITIES, AND ACCESS ROADS.

10. THE TEMPORARY STORMWATER PUMPS SHALL BE PORTABLE. MINIMUM 6-INCH DIAMETER CAPABLE OF PUMPING STORMWATER FROM EACH LOCATION TO THE DITCH ALONG THE WEST SIDE OF PHASE 3, UNIT 2 WITH DISCHARGE HOSE SUFFICIENT TO REACH THE DITCH.

11. ALL AREAS OF PHASE 3, UNIT 2 SHALL RECEIVE STORMWATER TARP AND NECESSARY METHODS TO SECURE IT IN PLACE.

LEGEND:

ROADS
PRIMARY
SECONDARY
PAVED PRKG.
TRAIL
RAILROAD

OTHER FEATURES
BUILDING
FOUNDATION OR RUIN
VEGETATION
PROPERTY LINE
PROPERTY CORNER
FENCE
AREA OUTLINE
WALL
RETAINING WALL (LOW SIDE / HIGH SIDE)
UTILITY POLE
LIGHT POLE
TOWER
SIGN
WALK
DRILL HOLE
MONITOR WELL
POLE
POST
FLAGPOLE
BILLBOARD
GUARDRAIL
ANTENNA
PAVEMENT CHANGE (U.S. / I.S. (UNIMPROVED SURFACE) (IMPROVED SURFACE))

NOTE: THE POSITIONS OF CONTOURS AND FEATURES WITHIN VEGETATION LINES ARE ESTIMATED. DASHED CONTOURS INDICATE AREAS WHERE THE GROUND IS COMPLETELY OBSCURED BY VEGETATION.

EXISTING ACCESS ROAD
EXISTING POWER POLE
EXISTING TREELINE
EXISTING MAJOR CONTOUR (820)
EXISTING MINOR CONTOUR
MINING AREA BOUNDARY
PROPERTY LINE
FLOOD PLAIN LINE
BUFFER/EASEMENT
PROPOSED MAJOR CONTOUR (750)
PROPOSED MINOR CONTOUR
RESTRICTIVE COVENANT AREA
LIMITS OF EXISTING UNDERDRAIN

CONTOURS
INDEX (160)
INTERMEDIATE (161)
DEPRESSION (160) (161)

CONTROL POINTS
HORIZONTAL W/ELEVEV. (329 △ 139.16)
HORIZONTAL W/O ELEV. (330 △)
VERTICAL ONLY (331 ○ 151.68)
PHOTOGRAMMETRIC ELEV. (X 164.8)

DRAINAGE
STREAM OR SHORELINE
CULVERT
DROP INLET
BRIDGE
MARSH

ISSUED FOR BID
DATE: 1/28/2019

GEORGIA REGISTERED No. 36548 PROFESSIONAL ENGINEER JASON STOUGH

ON SITE CIVIL GROUP
980 BIRMINGHAM RD, SUITE 501-340, MILTON, GA 30004
PH 1: (404) 822-9147, PH 2: (678) 449-6938
WWW.ONSITECIVIL.COM
INFO@ONSITECIVIL.COM

GEORGIA REGISTERED No. 36500 PROFESSIONAL ENGINEER SOMNYA BULUSU

REV	DATE	DESCRIPTION	BY
1			

DRAWING TITLE: GENERAL NOTES AND LEGEND

PROJECT TITLE: PHASE 3, UNIT 2, CELLS 1 AND 2 CONSTRUCTION DRAWINGS

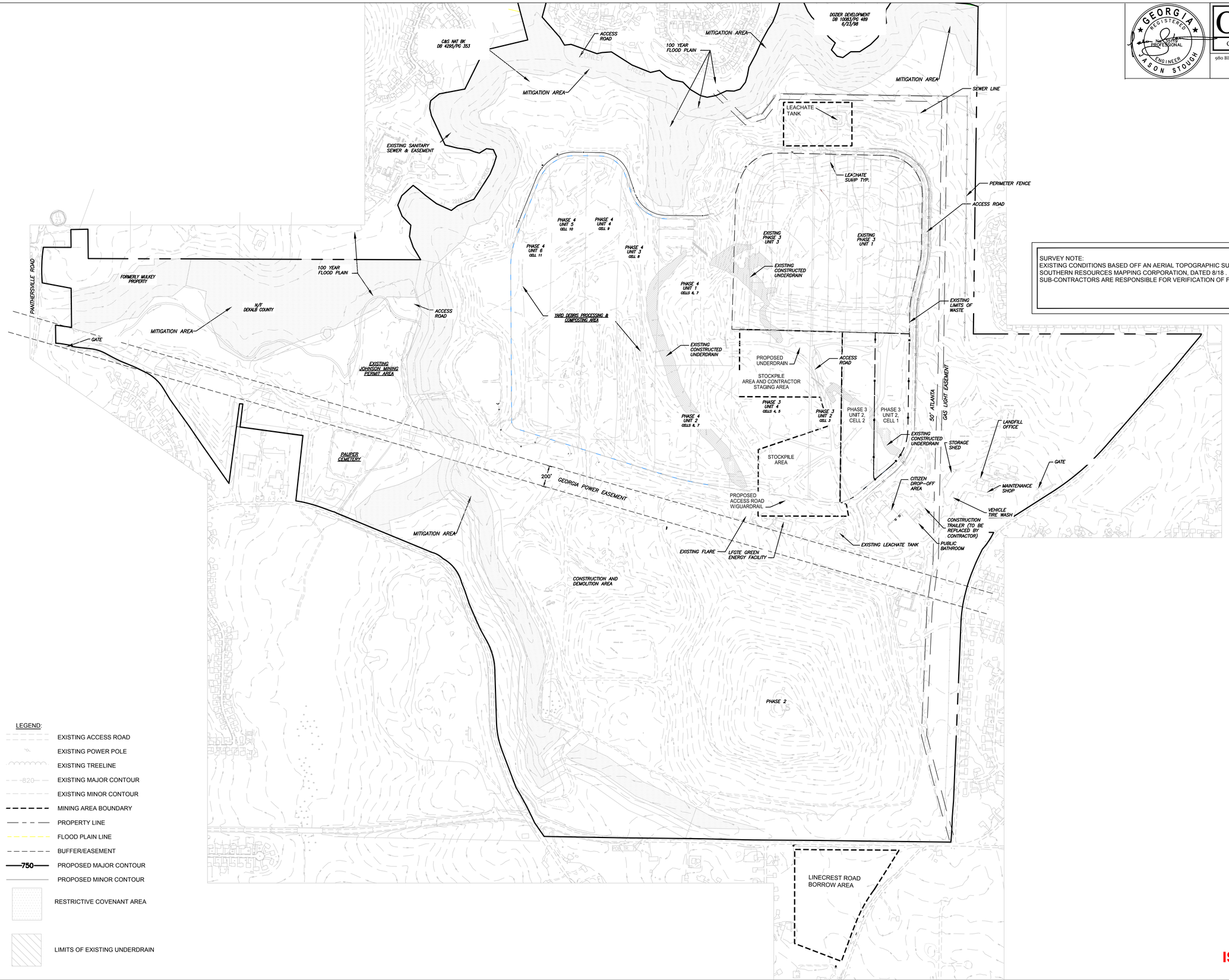
CLIENT: DEKALB COUNTY SANITATION DIVISION

SCS ENGINEERS
STEARNS, CONRAD AND SCHMIDT
CONSULTING ENGINEERS
3175 SATELLITE BLVD, BLDG. 600, SUITE 100
DULUTH, GA 30096
678 319-9849 FAX 678 319-9851

PROJ. NO. 09218217.04
DSN. BY: JLS
DWN. BY: JLS /MJR
CHK. BY: MJR
Q/A RVW BY: JMS
APP. BY: JLS

CADD FILE: 1-7-19 DeKalb..
DATE: 1/28/2019
SCALE: AS SHOWN
DRAWING NO. 2

D:\Users\Jason\Favorites\ONSITE Dropbox\Projects\2018\18-042 DeKalb County Landfill Engineering Contract\GMC\3-07-19 DeKalb Phase 3, Unit 2 Addendum 2\dwg, Mar 11, 2019 - 2:55pm, Layout Name: N2 By: Jason



SURVEY NOTE:
EXISTING CONDITIONS BASED OFF AN AERIAL TOPOGRAPHIC SURVEY PREPARED BY SOUTHERN RESOURCES MAPPING CORPORATION, DATED 8/18 . CONTRACTORS AND SUB-CONTRACTORS ARE RESPONSIBLE FOR VERIFICATION OF FIELD CONDITIONS.

LEGEND:

- EXISTING ACCESS ROAD
- EXISTING POWER POLE
- EXISTING TREELINE
- EXISTING MAJOR CONTOUR (820)
- EXISTING MINOR CONTOUR
- MINING AREA BOUNDARY
- PROPERTY LINE
- FLOOD PLAIN LINE
- BUFFER/EASEMENT
- PROPOSED MAJOR CONTOUR (750)
- PROPOSED MINOR CONTOUR
- RESTRICTIVE COVENANT AREA
- LIMITS OF EXISTING UNDERDRAIN

ISSUED FOR BID
DATE: 1/28/2019

GEORGIA REGISTERED No. 36599 PROFESSIONAL ENGINEER SOMMYA BULUSU

GEORGIA REGISTERED No. 36598 PROFESSIONAL ENGINEER JASON STOUGH

ON SITE CIVIL GROUP
980 BIRMINGHAM RD, SUITE 501-340, MILTON, GA 30004
PH 1: (404) 822-9147, PH 2: (678) 449-6938
WWW.ONSITECIVIL.COM
INFO@ONSITECIVIL.COM

REV	DATE	DESCRIPTION	BY

DRAWING TITLE
OVERALL EXISTING CONDITIONS

PROJECT TITLE
PHASE 3, UNIT 2, CELLS 1 AND 2 CONSTRUCTION DRAWINGS

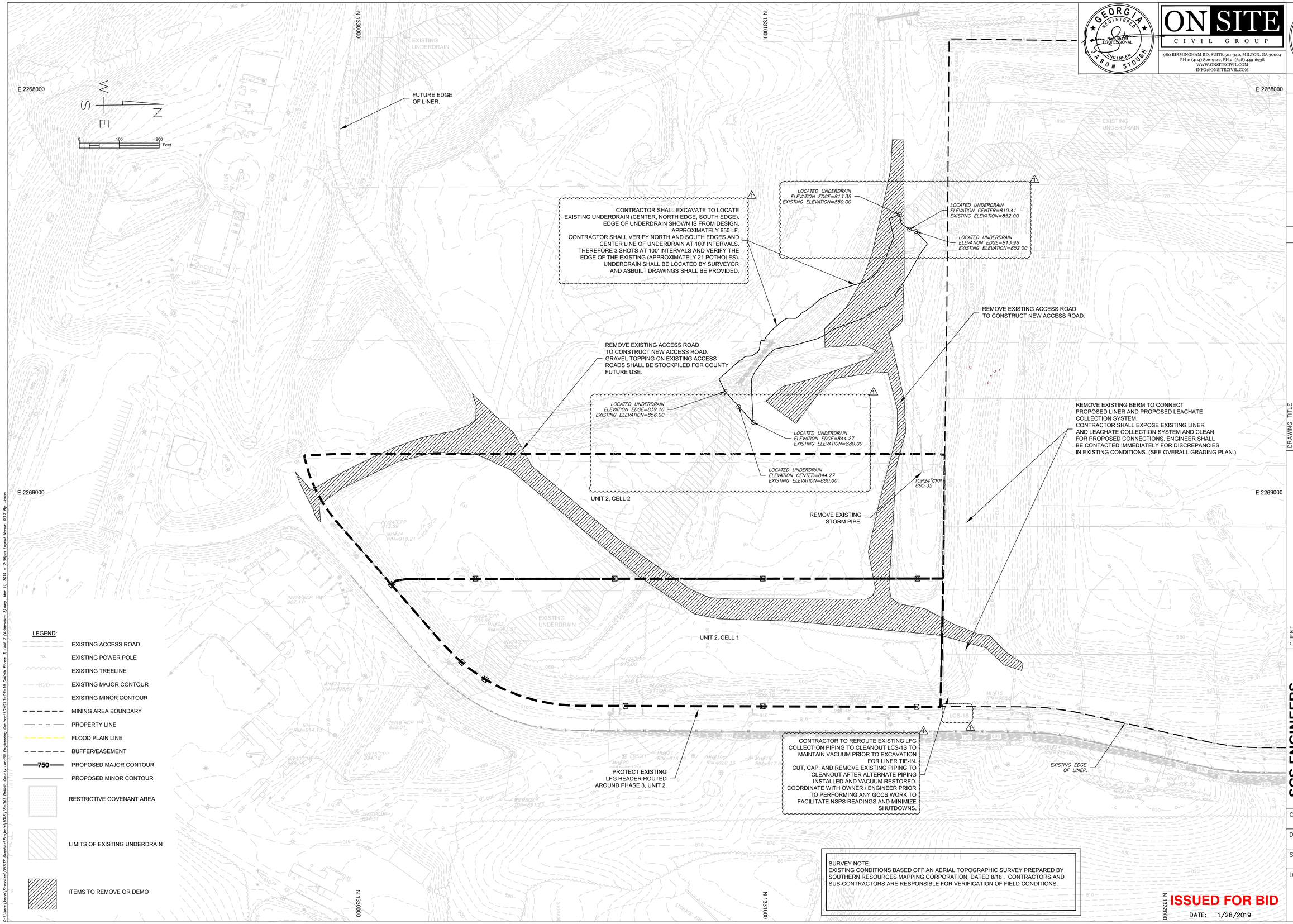
CLIENT
DEKALB COUNTY SANITATION DIVISION

SCS ENGINEERS
STEARNS, CONRAD AND SCHMIDT
CONSULTING ENGINEERS
3175 SATELLITE BLVD, BLDG 600, SUITE 100
DULUTH, GA 30096
678 319-9949 FAX 678 319-9851

PROJ. NO.	DWN. BY:	CHK. BY:	QA RVW BY:	APP. BY:
09218217.04	JLS/NJR	NJR	JMS	JLS
DSN. BY: JLS				

CADD FILE: 1-7-19 DeKalb..
DATE: 1/28/2019
SCALE: AS SHOWN
DRAWING NO. **3.1**

D:\Users\Jason\Favorites\ONSITE Dropbox\Projects\2018\18-042 DeKalb County Landfill Engineering Contract\DWG\3-07-19 DeKalb Phase 3, Unit 2 (Addendum 2).dwg Mar 11, 2019 - 2:56pm Layout Name: E3.1 By: Jason



SURVEY NOTE:
EXISTING CONDITIONS BASED OFF AN AERIAL TOPOGRAPHIC SURVEY PREPARED BY SOUTHERN RESOURCES MAPPING CORPORATION, DATED 8/18 . CONTRACTORS AND SUB-CONTRACTORS ARE RESPONSIBLE FOR VERIFICATION OF FIELD CONDITIONS.

ISSUED FOR BID
DATE: 1/28/2019

GEORGIA REGISTERED No. 35749 PROFESSIONAL ENGINEER JASON STOUGH

GEORGIA REGISTERED No. 36500 PROFESSIONAL ENGINEER SOWMYA BULUSU

ON SITE CIVIL GROUP
980 BIRMINGHAM RD, SUITE 501-340, MILTON, GA 30004
PH 1: (404) 822-9147, PH 2: (678) 449-6938
WWW.ONSITECIVIL.COM
INFO@ONSITECIVIL.COM

REV	DATE	DESCRIPTION	BY
2	3/11/2019	REVISIONS PER ADDENDUM NO. 2	SB

DRAWING TITLE: **DEMOLITION PLAN**

PROJECT TITLE: **PHASE 3, UNIT 2, CELLS 1 AND 2 CONSTRUCTION DRAWINGS**

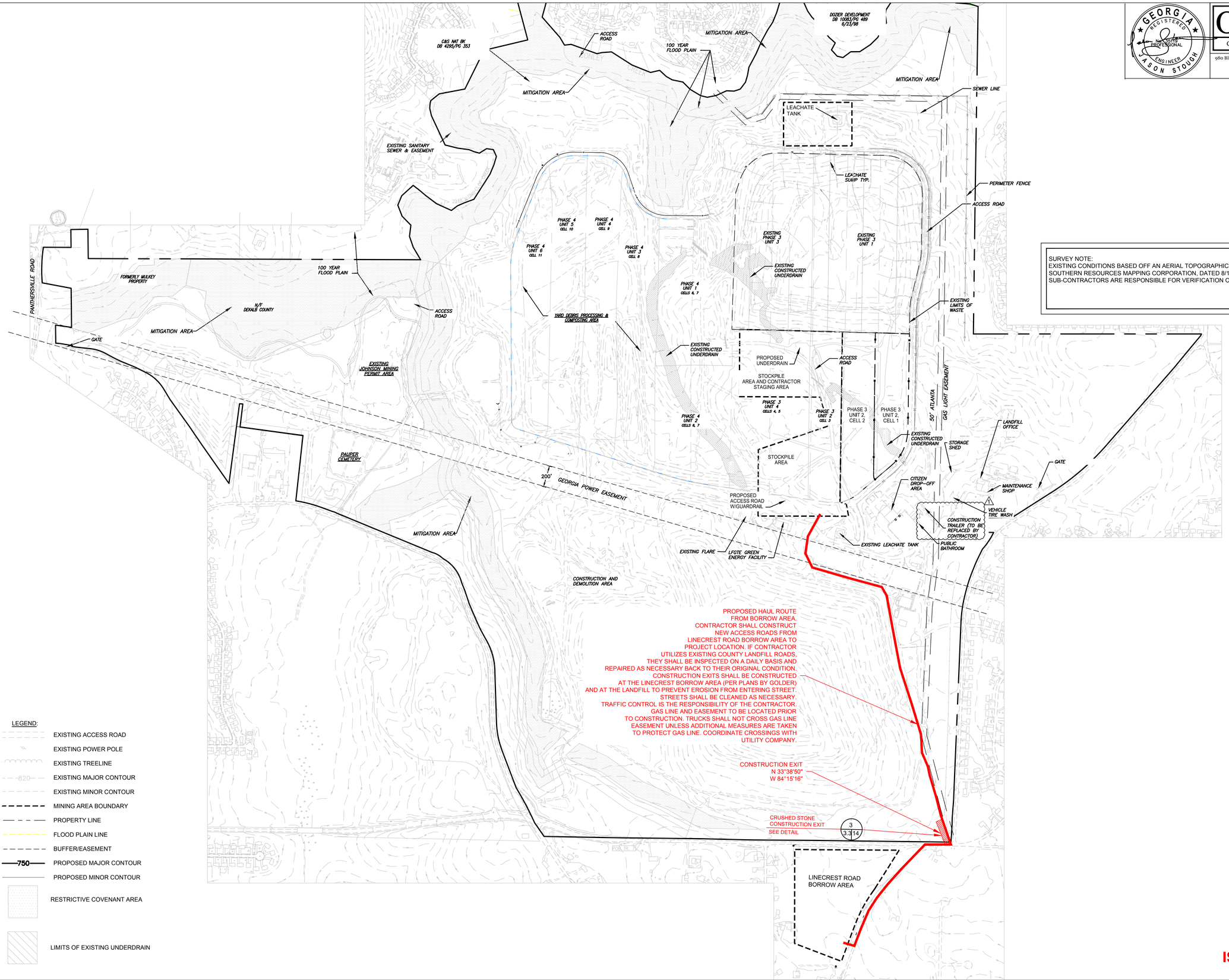
CLIENT: **DEKALB COUNTY SANITATION DIVISION**

SCS ENGINEERS
STEARNS, CONRAD AND SCHMIDT
CONSULTING ENGINEERS
3175 SATELLITE BLVD. BLDG. 600, SUITE 100
DULUTH, GA 30096
678 319-9849 FAX 678 319-9851

PROJ. NO. 09218217.04
DSN. BY: JLS
DWN. BY: JLS/ NWR
CHK. BY: WJR
O/A RVW BY: JMS
APP. BY: JLS

CADD FILE: 1-7-19 DeKalb..
DATE: 1/28/2019
SCALE: AS SHOWN
DRAWING NO. **3.2**

D:\Users\Jason\Favorites\ONSITE Dropbox\Projects\2018\18-042 DeKalb County Landfill Engineering Contract\DWG\1-07-19 DeKalb Phase 3, Unit 2 (Addendum 2).dwg Mar 11, 2019 - 2:56pm Layout Name: D1.2 By: Jason



SURVEY NOTE:
EXISTING CONDITIONS BASED OFF AN AERIAL TOPOGRAPHIC SURVEY PREPARED BY SOUTHERN RESOURCES MAPPING CORPORATION, DATED 8/18 . CONTRACTORS AND SUB-CONTRACTORS ARE RESPONSIBLE FOR VERIFICATION OF FIELD CONDITIONS.

LEGEND:

- EXISTING ACCESS ROAD
- EXISTING POWER POLE
- EXISTING TREELINE
- 820 EXISTING MAJOR CONTOUR
- EXISTING MINOR CONTOUR
- MINING AREA BOUNDARY
- PROPERTY LINE
- FLOOD PLAIN LINE
- BUFFER/EASEMENT
- 750 PROPOSED MAJOR CONTOUR
- PROPOSED MINOR CONTOUR
- RESTRICTIVE COVENANT AREA
- LIMITS OF EXISTING UNDERDRAIN

ISSUED FOR BID
DATE: 1/28/2019

GEORGIA REGISTERED No. 36599 PROFESSIONAL ENGINEER JASON STOUGH

ON SITE CIVIL GROUP
980 BIRMINGHAM RD, SUITE 501-340, MILTON, GA 30004
PH 1: (404) 822-9147, PH 2: (678) 449-6938
WWW.ONSITECIVIL.COM
INFO@ONSITECIVIL.COM

GEORGIA REGISTERED No. 36599 PROFESSIONAL ENGINEER SOMMYA BULUSU

REV	DATE	DESCRIPTION	BY
2	3/11/2019	REVISIONS PER ADDENDUM NO. 2	SB

DRAWING TITLE: **OVERALL SITE PLAN**

PROJECT TITLE: **PHASE 3, UNIT 2, CELLS 1 AND 2 CONSTRUCTION DRAWINGS**

CLIENT: **DEKALB COUNTY SANITATION DIVISION**

SCS ENGINEERS
STEARNS, CONRAD AND SCHMIDT
CONSULTING ENGINEERS
3175 SATELLITE BLVD. BLDG. 600, SUITE 100
DULUTH, GA 30096
678 319-9949 FAX 678 319-9851

PROJ. NO. 09218217.04
DSN. BY: JLS
DWN. BY: JLS/WJR
CHK. BY: WJR
D/A RVW BY: JMS
APP. BY: JLS

CADD FILE: 1-7-19 DeKalb..
DATE: 1/28/2019
SCALE: AS SHOWN
DRAWING NO. **3.3**

D:\Users\Jason\Favorites\ONSITE Dropbox\Projects\2018\18-042 DeKalb County Landfill Engineering Contract\DWG\3-07-19 DeKalb Phase 3, Unit 2 (Addendum 2).dwg Mar 11, 2019 - 2:56pm Layout Name: 11x17 By: Jason

N 1330000

N 1331000

E 2268000

0 100 200 Feet

FUTURE EDGE OF LINER.

LIMITS OF DISTURBANCE

LIMITS OF DISTURBANCE

LIMITS OF DISTURBANCE

EDGE OF ACCESS ROAD. EXISTING ACCESS ROAD TO NEW CELL TO BE BARRICADED FOR NO TRAFFIC FLOW.

850

860

870

E 2269000

E 2269000

EDGE OF LINER MARKER
7 / 5.1 9
SEE DETAIL

LIMIT OF STORMWATER TARP. SHALL COVER THE ENTIRE SURFACE AREA OF THE SAND PROTECTIVE COVER.

TYPICAL LINER TIE IN TO EXISTING LINER ALONG PHASE 3, UNIT 1 BOUNDARY
1 / 5.1 9
SEE DETAIL

LINER=910
GRADE=912

LINER=906
GRADE=908

LINER=900
GRADE=902

LINER=890
GRADE=892

LINER=886
GRADE=888

PERMANENT ALL WEATHER ACCESS ROAD
4 / 5.1 9
SEE DETAIL

GRADES SHOWN ARE TOP OF LINER.
SEE DETAIL ON SHEET 9.

COMPOSITE LINER SYSTEM (TYP.)
6 / 5.1 9
SEE DETAIL

CONTRACTOR TO INSTALL PIPING FOR RAMP ACCESS, INSTALL FILL OVER PIPE, AND MAKE PIPE CONNECTION TO EXISTING STRUCTURE. RAMP TO BE CONSTRUCTED INTO CELL AFTER APPROVED CELL CERTIFICATION BY COUNTY.

902

890

888

912

875

CLEAN OUT RISER TRENCH
9 / 5.1 9
SEE DETAIL

TYPICAL PERMANENT LINER ANCHOR
4 / 5.1 10
SEE DETAIL

LIMIT OF STORMWATER TARP

TYPICAL INTERUNIT TEMPORARY BERM & LINER END
4 / 5.1 8
SEE DETAIL

LIMITS OF DISTURBANCE

EXISTING EDGE OF LINER.

LEGEND:

- EXISTING ACCESS ROAD
- EXISTING POWER POLE
- EXISTING TREELINE
- 820 EXISTING MAJOR CONTOUR
- EXISTING MINOR CONTOUR
- MINING AREA BOUNDARY
- PROPERTY LINE
- FLOOD PLAIN LINE
- BUFFER/EASEMENT
- 750 PROPOSED MAJOR CONTOUR
- PROPOSED MINOR CONTOUR

SURVEY NOTE:
EXISTING CONDITIONS BASED OFF AN AERIAL TOPOGRAPHIC SURVEY PREPARED BY SOUTHERN RESOURCES MAPPING CORPORATION, DATED 8/18 . CONTRACTORS AND SUB-CONTRACTORS ARE RESPONSIBLE FOR VERIFICATION OF FIELD CONDITIONS.

N 1330000

N 1331000

N 1332000

ISSUED FOR BID

DATE: 1/28/2019

GEORGIA REGISTERED No. 36599 PROFESSIONAL ENGINEER JASON STOUGH

GEORGIA REGISTERED No. 36599 PROFESSIONAL ENGINEER SOMMYA BULUSU

ON SITE
CIVIL GROUP
980 BIRMINGHAM RD, SUITE 501-340, MILTON, GA 30004
PH 1: (404) 822-9147, PH 2: (678) 449-6938
WWW.ONSITECIVIL.COM
INFO@ONSITECIVIL.COM

REV	DATE	DESCRIPTION	BY
2	3/11/2019	REVISIONS PER ADDENDUM NO. 2	SB

DRAWING TITLE: **CELL 1 GRADING PLAN TOP OF LINER**

PROJECT TITLE: **PHASE 3, UNIT 2, CELLS 1 AND 2 CONSTRUCTION DRAWINGS**

CLIENT: **DEKALB COUNTY SANITATION DIVISION**

SCS ENGINEERS
STEARNS, CONRAD AND SCHMIDT
CONSULTING ENGINEERS
3175 SATELLITE BLVD, BLDG 600, SUITE 100
DULUTH, GA 30096
678 319-9849 FAX 678 319-9851

PROJ. NO. 09218217.04
DSN. BY: JLS
DWN. BY: JLS/WJR
CHK. BY: WJR
O/A RVW BY: JMS
APP. BY: JLS

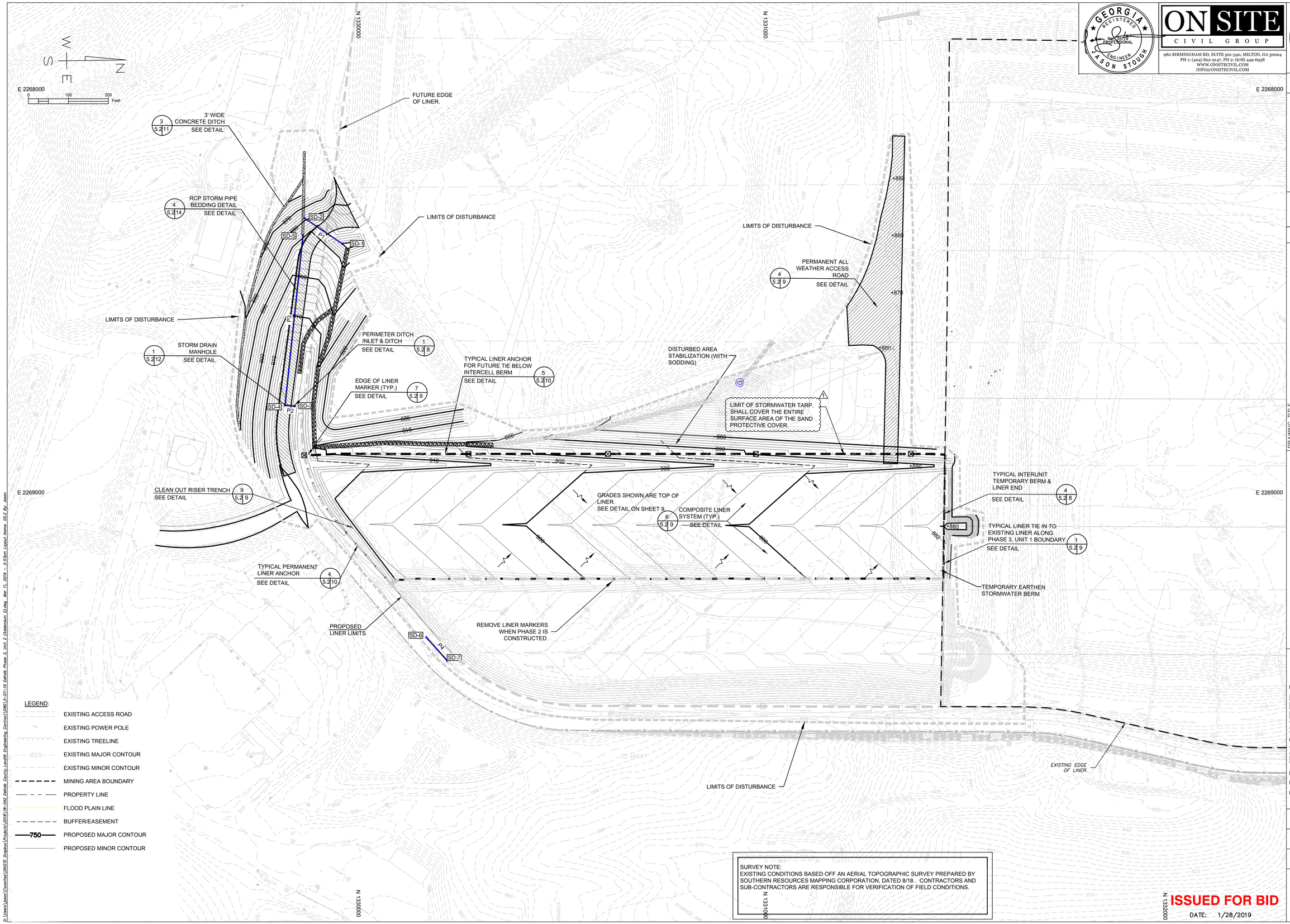
CADD FILE: 1-7-19 DeKalb..

DATE: 1/28/2019

SCALE: AS SHOWN

DRAWING NO. **5.1**

D:\Users\Jason\Favorites\ONSITE Dropbox\Projects\2018\18-042 DeKalb County Landfill Engineering Contract\CAD\1-07-19 DeKalb Phase 3, Unit 2 (Addendum 2).dwg Mar 11, 2019 - 2:57pm Layout Name: G5.1 By: Jason



LEGEND:

- EXISTING ACCESS ROAD
- EXISTING POWER POLE
- EXISTING TREELINE
- EXISTING MAJOR CONTOUR
- EXISTING MINOR CONTOUR
- MINING AREA BOUNDARY
- PROPERTY LINE
- FLOOD PLAIN LINE
- BUFFER/EASEMENT
- 750 PROPOSED MAJOR CONTOUR
- PROPOSED MINOR CONTOUR

SURVEY NOTE:
EXISTING CONDITIONS BASED OFF AN AERIAL TOPOGRAPHIC SURVEY PREPARED BY SOUTHERN RESOURCES MAPPING CORPORATION, DATED 8/18 . CONTRACTORS AND SUB-CONTRACTORS ARE RESPONSIBLE FOR VERIFICATION OF FIELD CONDITIONS.

ISSUED FOR BID
DATE: 1/28/2019

GEORGIA REGISTERED No. 36599 PROFESSIONAL ENGINEER JASON STOUGH

GEORGIA REGISTERED No. 36599 PROFESSIONAL ENGINEER SOWMYA BULUSU

ON SITE CIVIL GROUP
980 BIRMINGHAM RD, SUITE 501-340, MILTON, GA 30004
PH 1: (404) 822-9147, PH 2: (678) 449-6938
WWW.ONSITECIVIL.COM
INFO@ONSITECIVIL.COM

REV	DATE	DESCRIPTION	BY
2	3/11/2019	REVISIONS PER ADDENDUM NO. 2	SB

DRAWING TITLE: **CELL 2 GRADING PLAN TOP OF LINER**

PROJECT TITLE: **PHASE 3, UNIT 2, CELLS 1 AND 2 CONSTRUCTION DRAWINGS**

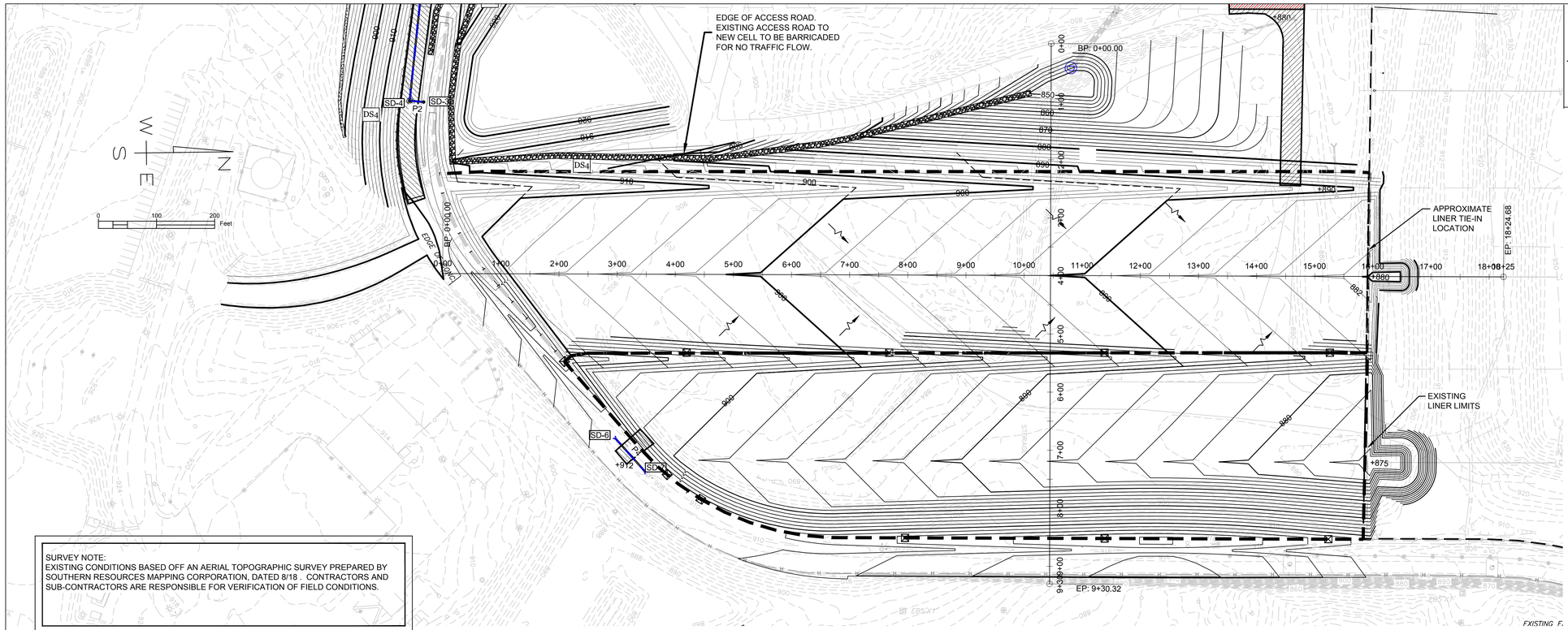
CLIENT: **DEKALB COUNTY SANITATION DIVISION**

SCS ENGINEERS
STEARNS, CONRAD AND SCHMIDT
CONSULTING ENGINEERS
3175 SATELLITE BLVD. BLDG. 600, SUITE 100
DULUTH, GA 30096
678 319-9849 FAX 678 319-9851

PROJ. NO. 09218217.04
DSN. BY: JLS
DWN. BY: JLS/WJR
CHK. BY: WJR
O/A RVW BY: JMS
APP. BY: JLS

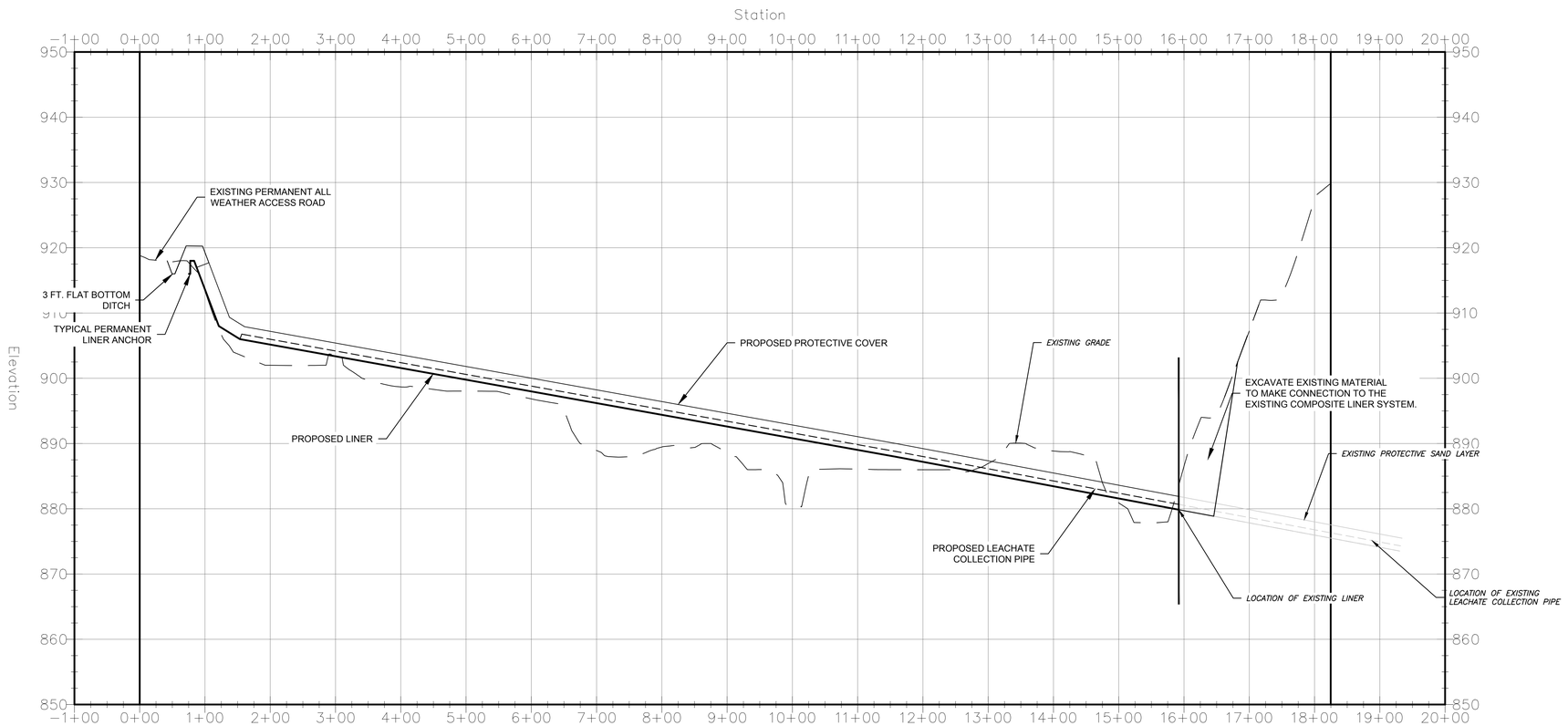
CADD FILE: 1-7-19 DeKalb..
DATE: 1/28/2019
SCALE: AS SHOWN
DRAWING NO. **5.2**

D:\Users\jason\Favorites\ONSITE Dropbox\Projects\2018\18-042 DeKalb County Landfill Engineering Contract\DWG\1-07-19 DeKalb Phase 3, Unit 2 (Addendum 2).dwg Mar 11, 2019 - 2:57pm Layout Name: G5.2 By: Jason



SURVEY NOTE:
EXISTING CONDITIONS BASED OFF AN AERIAL TOPOGRAPHIC SURVEY PREPARED BY SOUTHERN RESOURCES MAPPING CORPORATION, DATED 8/18 . CONTRACTORS AND SUB-CONTRACTORS ARE RESPONSIBLE FOR VERIFICATION OF FIELD CONDITIONS.

CELL 2 PROFILE



ISSUED FOR BID
DATE: 1/28/2019

GEORGIA REGISTERED No. 36500 PROFESSIONAL ENGINEER JASON STOUGH

ON SITE CIVIL GROUP
980 BIRMINGHAM RD, SUITE 501-340, MILTON, GA 30004
PH 1: (404) 822-9147, PH 2: (678) 449-6938
WWW.ONSITECIVIL.COM
INFO@ONSITECIVIL.COM

GEORGIA REGISTERED No. 36500 PROFESSIONAL ENGINEER SOWMYA BULUSU

REV	DATE	DESCRIPTION	BY

DRAWING TITLE
PLAN & PROFILES

PROJECT TITLE
PHASE 3, UNIT 2, CELLS 1 AND 2
CONSTRUCTION DRAWINGS

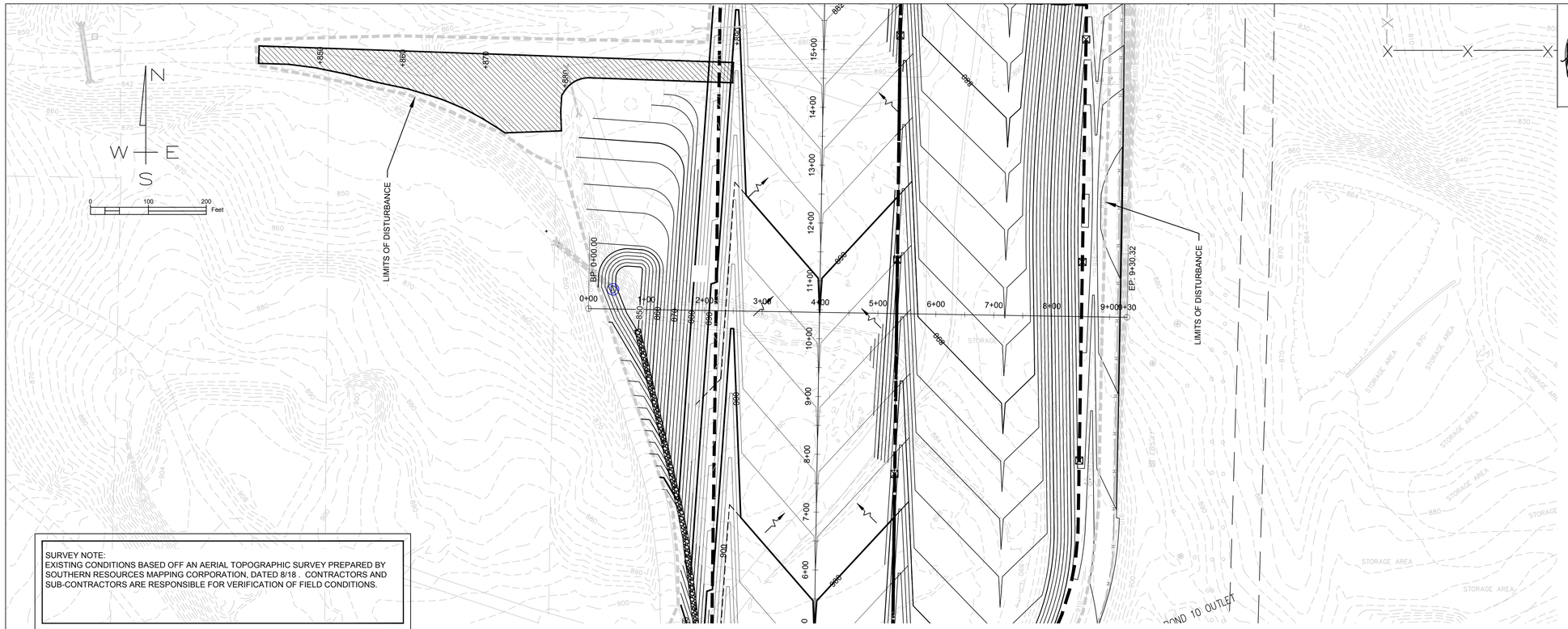
CLIENT
DEKALB COUNTY
SANITATION DIVISION

SCS ENGINEERS
STEARNS, CONRAD AND SCHMIDT
CONSULTING ENGINEERS
3175 SATELLITE BLVD, BLDG 600, SUITE 100
DULUTH, GA 30096
678 319-9849 FAX 678 319-9851

PROJ. NO. 09218217.04
DSN. BY: JLS
DWN. BY: JLS/WJR
CHK. BY: WJR
QA RVW BY: JMS
APP. BY: JLS

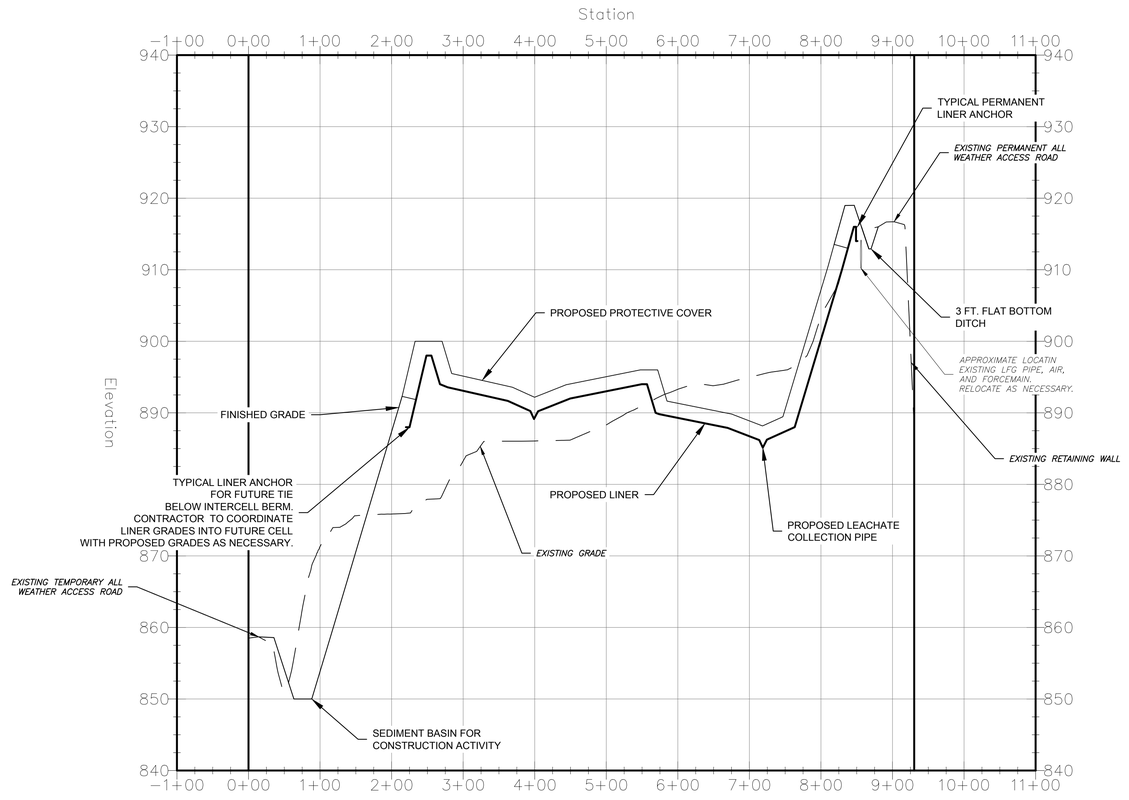
CADD FILE: 1-7-19 DeKalb..
DATE: 1/28/2019
SCALE: AS SHOWN
DRAWING NO. **5.3**

D:\Users\jason\Favorites\ONSITE Dropbox\Projects\2018\18-042 DeKalb County Landfill Engineering Contract\CAD\1-7-19 DeKalb Phase 3, Unit 2 (Addendum 2).dwg Mar 11, 2019 - 2:57pm Layout Name: GS.3 By: Jason



SURVEY NOTE:
EXISTING CONDITIONS BASED OFF AN AERIAL TOPOGRAPHIC SURVEY PREPARED BY SOUTHERN RESOURCES MAPPING CORPORATION, DATED 8/18 . CONTRACTORS AND SUB-CONTRACTORS ARE RESPONSIBLE FOR VERIFICATION OF FIELD CONDITIONS.

CELLS 1 AND 2 PROFILE



ISSUED FOR BID

DATE: 1/28/2019

GEORGIA REGISTERED No. 36548 PROFESSIONAL ENGINEER JASON STOUGH

ON SITE CIVIL GROUP
980 BIRMINGHAM RD, SUITE 501-340, MILTON, GA 30004
PH 1: (404) 822-9147, PH 2: (678) 449-6938
WWW.ONSITECIVIL.COM
INFO@ONSITECIVIL.COM

GEORGIA REGISTERED No. 36509 PROFESSIONAL ENGINEER SOMMYA BULUSU

REV	DATE	DESCRIPTION	BY

DRAWING TITLE: **PLAN & PROFILES**

PROJECT TITLE: **PHASE 3, UNIT 2, CELLS 1 AND 2 CONSTRUCTION DRAWINGS**

CLIENT: **DEKALB COUNTY SANITATION DIVISION**

SCS ENGINEERS
STEARNS, CONRAD AND SCHMIDT
CONSULTING ENGINEERS
3175 SATELLITE BLVD. BLDG. 600, SUITE 100
DULUTH, GA 30096
678 319-9849 FAX 678 319-9851

PROJ. NO. 09218217.04 | DWN. BY: JLS/WJR | CHK. BY: WJR | O/A RVW BY: JMS | APP. BY: JLS

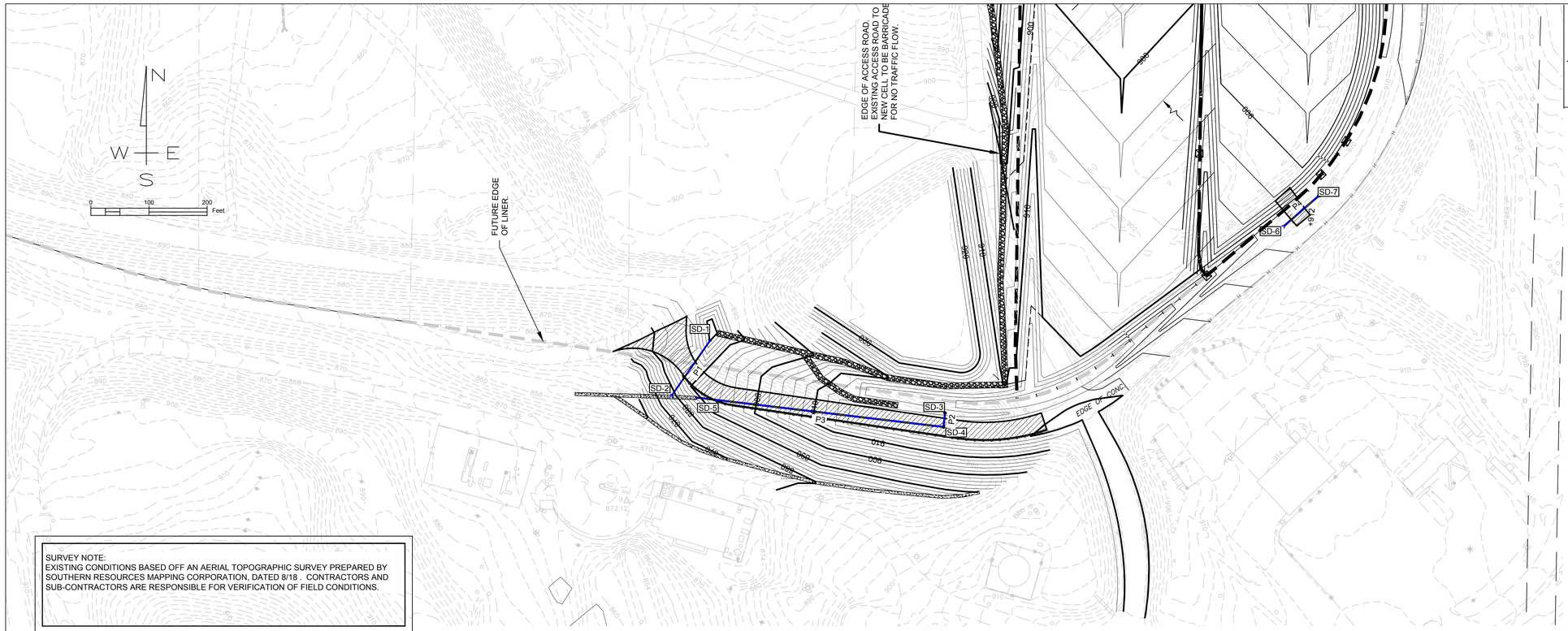
CADD FILE: 1–7–19 DeKalb..

DATE: 1/28/2019

SCALE: AS SHOWN

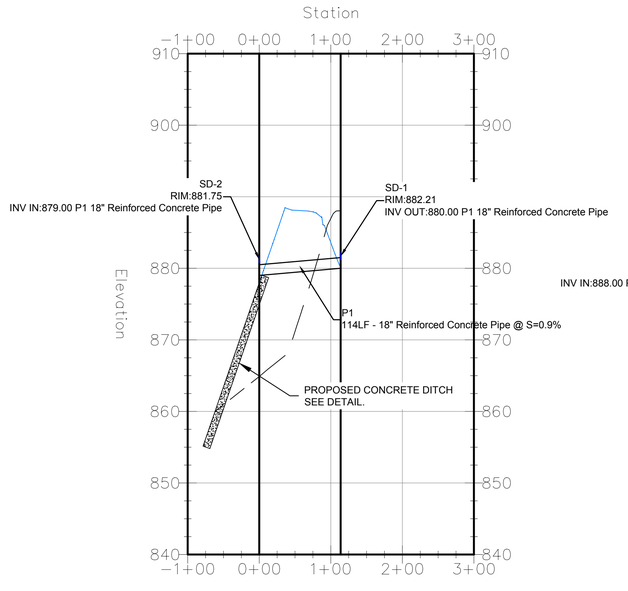
DRAWING NO. **5.4**

D:\Users\Jason\Favorites\ONSITE Dropbox\Projects\2018\18-042 DeKalb County Landfill Engineering Contract\DWG\1-07-19 DeKalb Phase 3 Unit 2 (Addendum 2).dwg Mar 11, 2019 - 2:57pm Layout Name: C5.4 By: Jason

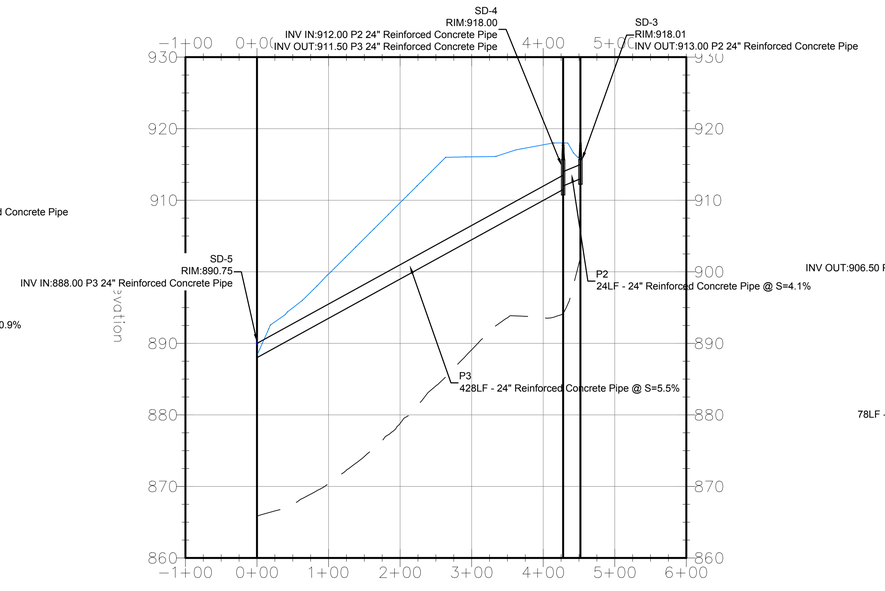


SURVEY NOTE:
EXISTING CONDITIONS BASED OFF AN AERIAL TOPOGRAPHIC SURVEY PREPARED BY SOUTHERN RESOURCES MAPPING CORPORATION, DATED 8/18 . CONTRACTORS AND SUB-CONTRACTORS ARE RESPONSIBLE FOR VERIFICATION OF FIELD CONDITIONS.

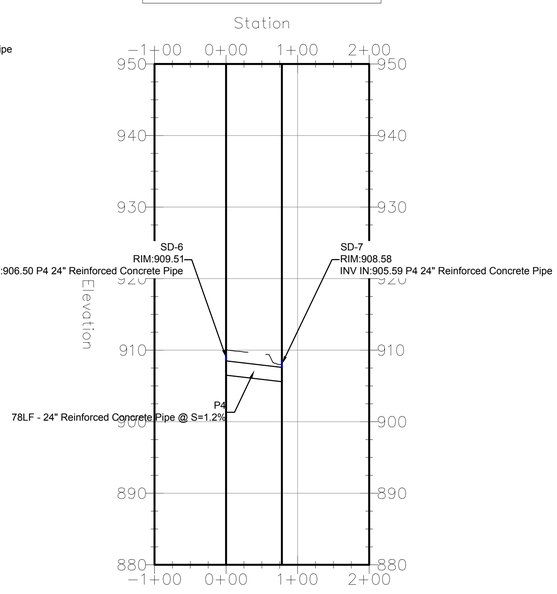
SD2-SD1 PROFILE



SD5-SD3 PROFILE



SD6-SD7 PROFILE



ISSUED FOR BID
DATE: 1/28/2019

GEORGIA REGISTERED No. 35748 PROFESSIONAL ENGINEER JASON STOUGH

ON SITE CIVIL GROUP
980 BIRMINGHAM RD, SUITE 501-340, MILTON, GA 30004
PH 1: (404) 822-9147, PH 2: (678) 449-6938
WWW.ONSITECIVIL.COM
INFO@ONSITECIVIL.COM

GEORGIA REGISTERED No. 36500 PROFESSIONAL ENGINEER SOMMYA BULUSU

REV	DATE	DESCRIPTION	BY

DRAWING TITLE: **PLAN & PROFILES**

PROJECT TITLE: **PHASE 3, UNIT 2, CELLS 1 AND 2 CONSTRUCTION DRAWINGS**

CLIENT: **DEKALB COUNTY SANITATION DIVISION**

SCS ENGINEERS
STEARNS, CONRAD AND SCHMIDT
CONSULTING ENGINEERS
3175 SATELLITE BLVD, BLDG 600, SUITE 100
DULUTH, GA 30096
678 319-9849 FAX 678 319-9851

PROJ. NO. 09218217.04 | DSN. BY: JLS | DWN. BY: JLS/WJR | CHK. BY: WJR | Q/A RVW BY: JMS | APP. BY: JLS

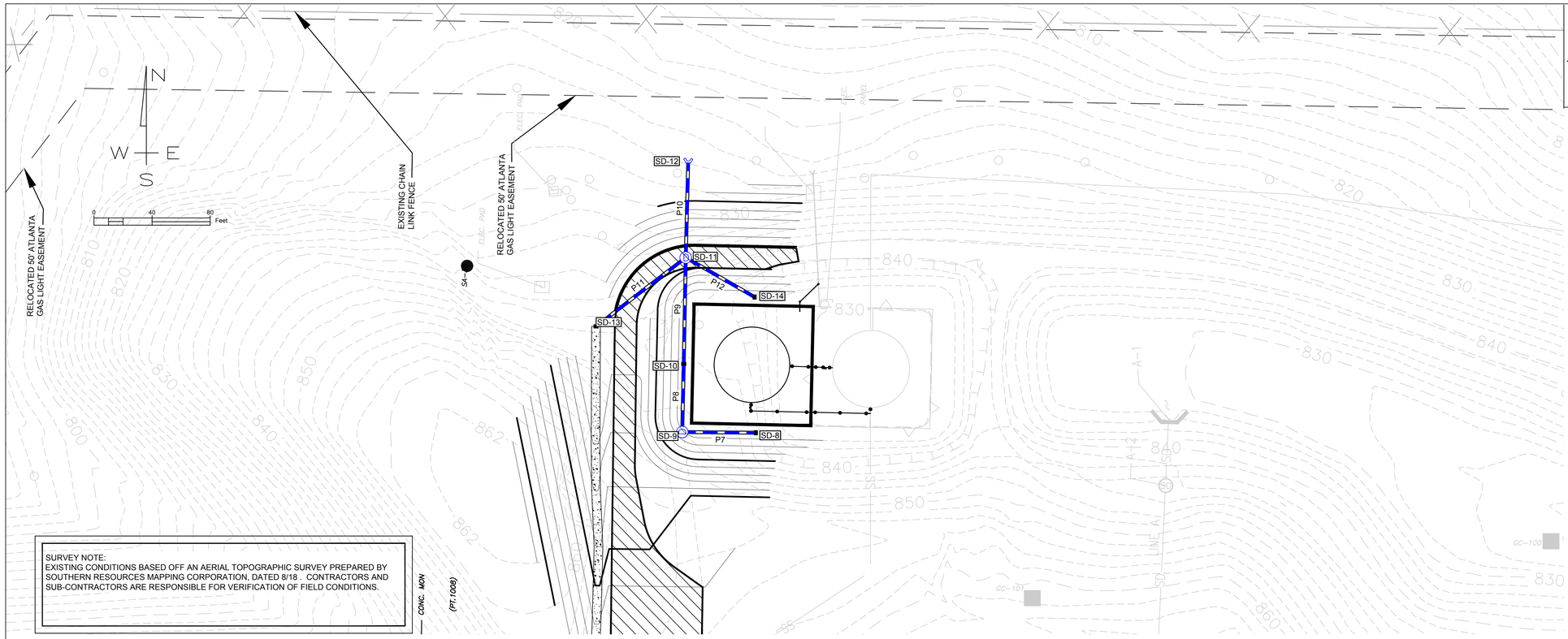
CADD FILE: 1-7-19 DeKalb..

DATE: 1/28/2019

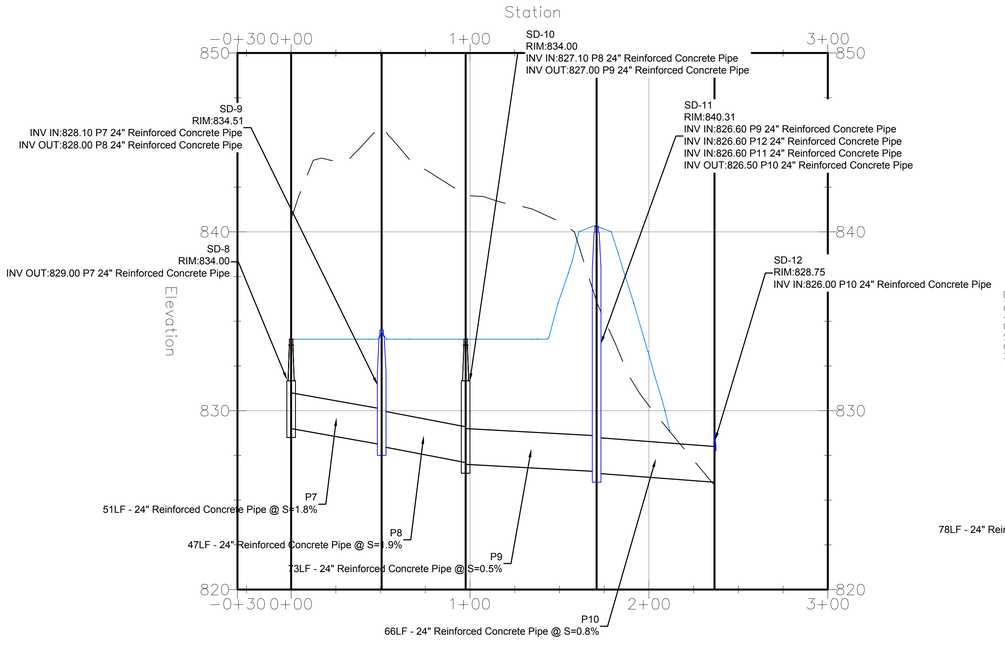
SCALE: AS SHOWN

DRAWING NO. **5.5**

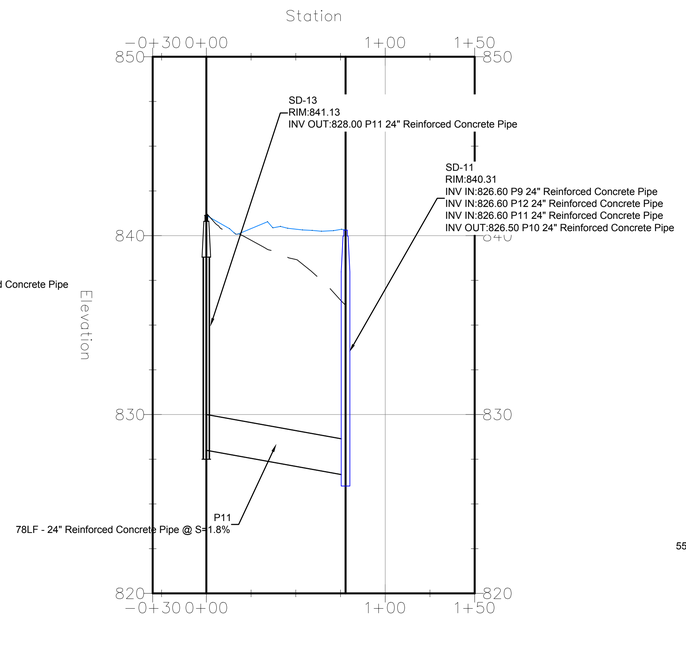
D:\Users\Jason\Favorites\ONSITE Dropbox\Projects\2018\18-042 DeKalb County Landfill Engineering Contract\CAD\1-7-19 DeKalb Phase 3, Unit 2 (Addendum 2).dwg Mar 11, 2019 - 2:58pm Layout Name: G5.5 By: Jason



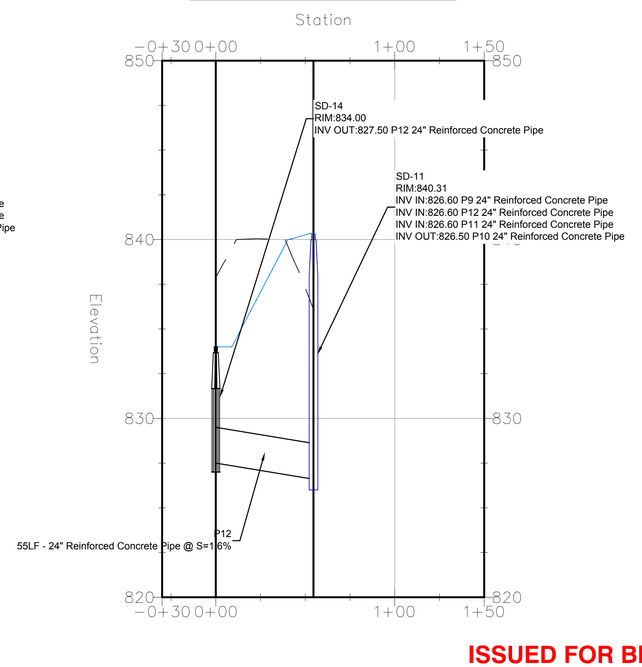
SD8-SD12 PROFILE



SD13-SD11 PROFILE



SD14-SD11 PROFILE



ISSUED FOR BID

DATE: 1/28/2019

GEORGIA REGISTERED No. 36599 PROFESSIONAL ENGINEER JASON STOUGH

ON SITE CIVIL GROUP
980 BIRMINGHAM RD, SUITE 501-340, MILTON, GA 30004
PH 1: (404) 822-9147, PH 2: (678) 449-6938
WWW.ONSITECIVIL.COM
INFO@ONSITECIVIL.COM

GEORGIA REGISTERED No. 36599 PROFESSIONAL ENGINEER SOWMYA BULUSU

REV	DATE	DESCRIPTION	BY

DRAWING TITLE: **PLAN & PROFILES**

PROJECT TITLE: **PHASE 3, UNIT 2, CELLS 1 AND 2 CONSTRUCTION DRAWINGS**

CLIENT: **DEKALB COUNTY SANITATION DIVISION**

SCS ENGINEERS
STEARNS, CONRAD AND SCHMIDT
CONSULTING ENGINEERS
317 SATELLITE BLVD, BLDG 600, SUITE 100
DULUTH, GA 30096
678 319-9849 FAX 678 319-9851

PROJ. NO. 09218217.04 | DWN. BY: JLS/WJR | CHK. BY: WJR | QA/QC BY: JMS | APP. BY: JLS

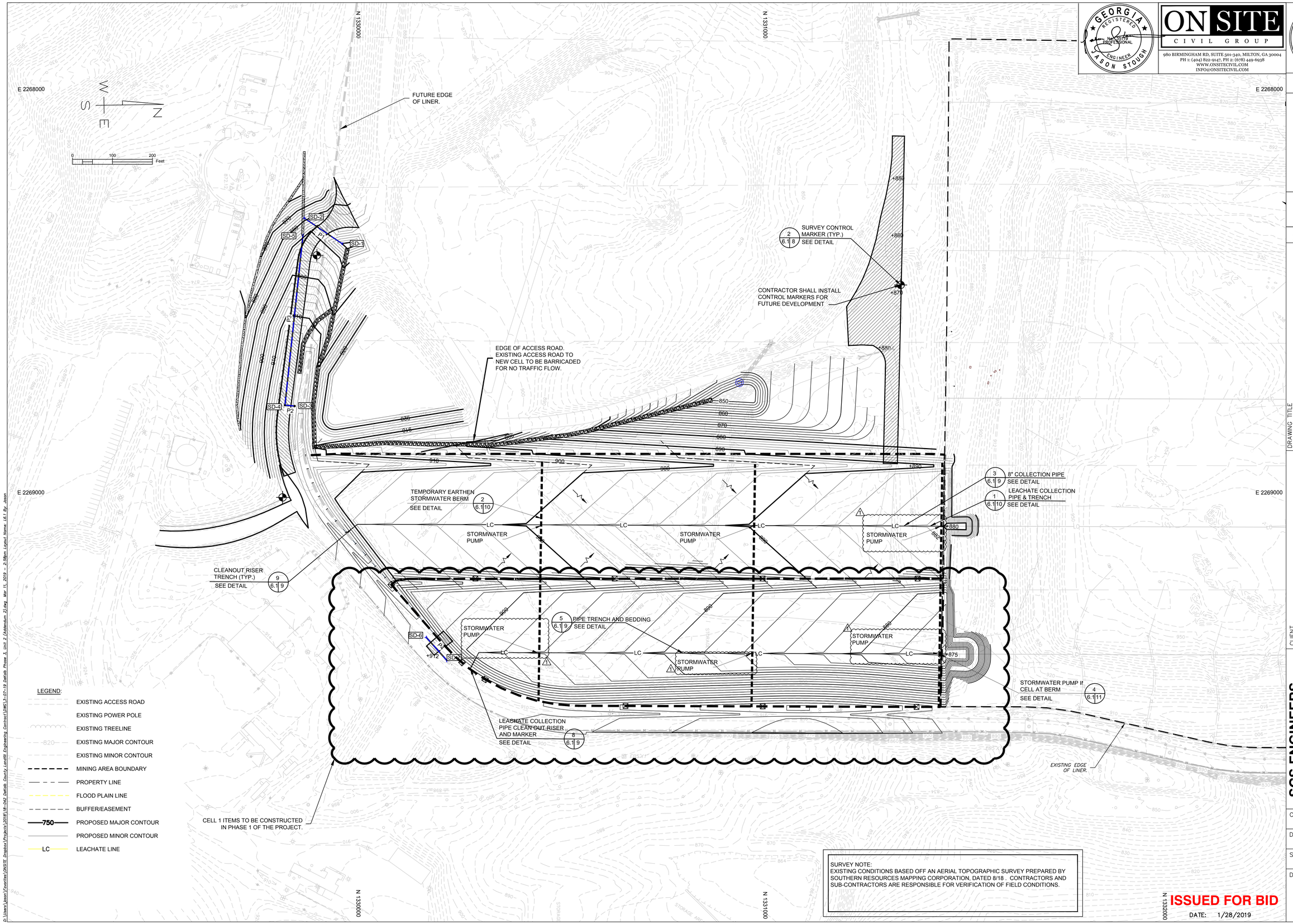
CADD FILE: 1-7-19 DeKalb..

DATE: 1/28/2019

SCALE: AS SHOWN

DRAWING NO. **5.6**

G:\Users\Jason\Travelles\ONSITE Dropbox\Projects\2018\18-042 DeKalb County Landfill Engineering Contract\Civil\3-07-19 DeKalb Phase 3, Unit 2 (Addendum 2).dwg Mar 11, 2019 - 2:58pm Layout Name: G5.6 By: Jason



LEGEND:

- EXISTING ACCESS ROAD
- EXISTING POWER POLE
- EXISTING TREELINE
- EXISTING MAJOR CONTOUR
- EXISTING MINOR CONTOUR
- MINING AREA BOUNDARY
- PROPERTY LINE
- FLOOD PLAIN LINE
- BUFFER/EASEMENT
- 750 PROPOSED MAJOR CONTOUR
- PROPOSED MINOR CONTOUR
- LC LEACHATE LINE

SURVEY NOTE:
EXISTING CONDITIONS BASED OFF AN AERIAL TOPOGRAPHIC SURVEY PREPARED BY SOUTHERN RESOURCES MAPPING CORPORATION, DATED 8/18 . CONTRACTORS AND SUB-CONTRACTORS ARE RESPONSIBLE FOR VERIFICATION OF FIELD CONDITIONS.

ISSUED FOR BID
DATE: 1/28/2019

GEORGIA REGISTERED No. 36599 PROFESSIONAL ENGINEER JASON STOUGH

GEORGIA REGISTERED No. 36599 PROFESSIONAL ENGINEER SOMMYA BULUSU

ON SITE CIVIL GROUP
980 BIRMINGHAM RD, SUITE 501-340, MILTON, GA 30004
PH 1: (404) 822-9147, PH 2: (678) 449-6938
WWW.ONSITECIVIL.COM
INFO@ONSITECIVIL.COM

REV	DATE	DESCRIPTION	BY
4	3/11/2019	REVISIONS PER ADDENDUM NO. 2	SB

DRAWING TITLE: **LEACHATE PLAN**

PROJECT TITLE: **PHASE 3, UNIT 2, CELLS 1 AND 2 CONSTRUCTION DRAWINGS**

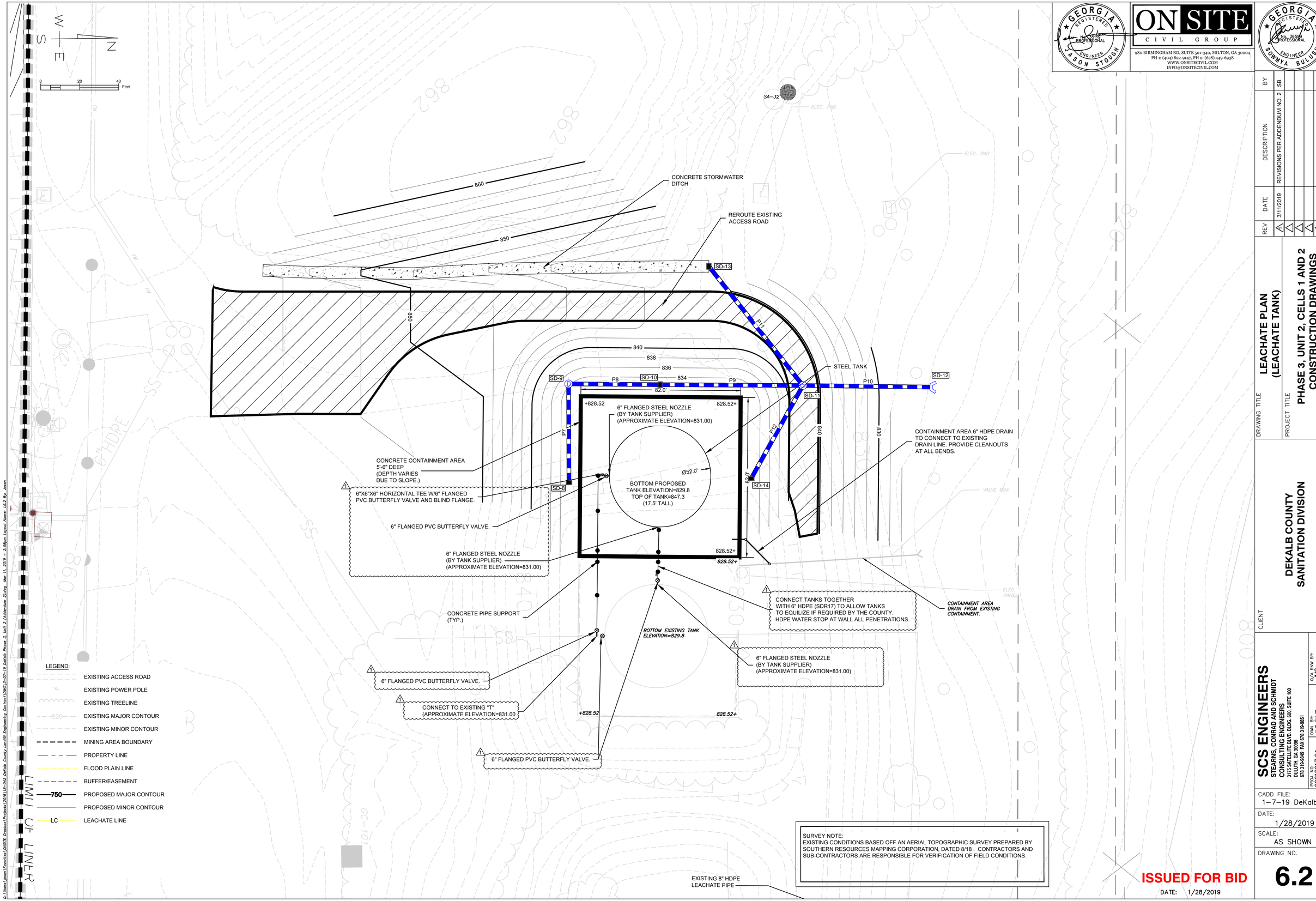
CLIENT: **DEKALB COUNTY SANITATION DIVISION**

SCS ENGINEERS
STEARNS, CONRAD AND SCHMIDT
CONSULTING ENGINEERS
3175 SATELLITE BLVD, BLDG. 600, SUITE 100
DULUTH, GA 30096
678 319-9849 FAX 678 319-9851

PROJ. NO. 09218217.04
DSN. BY: JLS
DWN. BY: JLS /WJR
CHK. BY: WJR
Q/A R/W BY: JMS
APP. BY: JLS

CADD FILE: 1-7-19 DeKalb..
DATE: 1/28/2019
SCALE: AS SHOWN
DRAWING NO. **6.1**

G:\Users\jason.\Favorites\ONSITE Dropbox\Projects\2018\18-042 DeKalb County Landfill Engineering Contract\DWG\3-07-19 Details Phase 3, Unit 2 (Addendum 2).dwg Mar 11, 2019 - 2:58pm Layout: Home (6.1 By: Jason



SURVEY NOTE:
EXISTING CONDITIONS BASED OFF AN AERIAL TOPOGRAPHIC SURVEY PREPARED BY SOUTHERN RESOURCES MAPPING CORPORATION, DATED 8/18 . CONTRACTORS AND SUB-CONTRACTORS ARE RESPONSIBLE FOR VERIFICATION OF FIELD CONDITIONS.

ISSUED FOR BID
DATE: 1/28/2019

GEORGIA REGISTERED No. 36508 PROFESSIONAL ENGINEER JASON STOUGH

ON SITE CIVIL GROUP
980 BIRMINGHAM RD, SUITE 501-340, MILTON, GA 30004
PH 1: (404) 822-9147, PH 2: (678) 449-6938
WWW.ONSITECIVIL.COM
INFO@ONSITECIVIL.COM

GEORGIA REGISTERED No. 36508 PROFESSIONAL ENGINEER SOMMYA BULUSU

REV	DATE	DESCRIPTION	BY
2	3/11/2019	REVISIONS PER ADDENDUM NO. 2	SB

DRAWING TITLE: LEACHATE PLAN (LEACHATE TANK)

PROJECT TITLE: PHASE 3, UNIT 2, CELLS 1 AND 2 CONSTRUCTION DRAWINGS

CLIENT: DEKALB COUNTY SANITATION DIVISION

SCS ENGINEERS
STEARNS, CONRAD AND SCHMIDT CONSULTING ENGINEERS
3175 SATELLITE BLVD. BLDG. 600, SUITE 100
DULUTH, GA 30096
678 319-9849 FAX 678 319-9851

PROJ. NO. 09218217.04 | DSN. BY: JLS | DWN. BY: JLS/WJR | CHK. BY: WJR | Q/A RVW BY: JMS | APP. BY: JLS

CADD FILE: 1-7-19 DeKalb..

DATE: 1/28/2019

SCALE: AS SHOWN

DRAWING NO. 6.2

D:\Users\Jason\Favorites\ONSITE Dropbox\Projects\2018\18-042 DeKalb County Landfill Engineering Contract\DWG\1-07-19 DeKalb Phase 3 Unit 2 (Addendum 2).dwg Mar 11, 2019 - 2:58pm Layout Name: L6.2 By: Jason

GSWCC GEORGIA SOIL AND WATER CONSERVATION COMMISION

Jason Stough

Level II Certified Design Professional

CERTIFICATION NUMBER 0000014366

ISSUED 08/04/2018 EXPIRES 08/04/2021

ENGINEER

ONSITE CIVIL GROUP
980 BIRMINGHAM RD
SUITE 501-340
MILTON, GA 30004
CONTACT: JASON STOUGH, PE
678-449-4238
JASON@ONSITECIVIL.COM

EROSION NOTES:

1. **THE ESCAPE OF SEDIMENT FROM THE SITE SHALL BE PREVENTED BY THE INSTALLATION OF EROSION CONTROL AND SEDIMENT CONTROL MEASURES AND PRACTICES SHALL OCCUR PRIOR TO OR CONCURRENT WITH LAND-DISTURBING ACTIVITIES.**
2. **EROSION AND SEDIMENTATION CONTROL MEASURES SHALL BE MAINTAINED AT ALL TIMES . IF FULL IMPLEMENTATION OF THE APPROVED PLAN DOES NOT PROVIDE FOR EFFECTIVE EROSION AND SEDIMENT CONTROL, ADDITIONAL EROSION AND SEDIMENT CONTROL MEASURES SHALL BE IMPLEMENTED TO CONTROL OR TREAT THE SEDIMENT SOURCE.**
3. **ANY DISTURBED AREA LEFT EXPOSED FOR A PERIOD GREATER THAN 14 DAYS SHALL BE STABILIZED WITH MULCH OR TEMPORARY SEEDING.**

NOTE:
WASHOUT OF THE CONCRETE TRUCK DRUM ONSITE IS PROHIBITED. WASHOUT OF TOOLS, CONCRETE MIXER CHUTES, HOPPERS, AND THE REAR WHEELS OF VEHICLES SHALL BE HANDLED BY EITHER A PRE-FABRICATED CONCRETE WASHOUT BIN OR A BELOW GRADE SUMP 10'x10' WITH 6" OF FREEBOARD. EITHER BMP SHALL BE LINED WITH 10MIL PLASTIC, OVERLAPPING 4", WITH NO HOLES OR TEARS THAT ALLOW LEAKAGE. A WASHOUT SHOULD BE LOCATED 50 AWAY FROM STORM DRAINS, OPEN DITCHES, OR WATER COURSES. BELOW GRADE WASHOUTS SHALL BE LINED ON THE DOWNSTREAM SIDE WITH HAY BALES.

GEORGIA REGISTERED No. 36508 PROFESSIONAL ENGINEER JASON STOUGH

ON SITE CIVIL GROUP
980 BIRMINGHAM RD, SUITE 501-340, MILTON, GA 30004
PH 1: (404) 822-9147, PH 2: (678) 449-6938
WWW.ONSITECIVIL.COM
INFO@ONSITECIVIL.COM

GEORGIA REGISTERED No. 36508 PROFESSIONAL ENGINEER SOMMYA BULUSU

REV	DATE	DESCRIPTION	BY

FUTURE EDGE OF LINER.

LIMITS OF DISTURBANCE

SAMPLING OUTFALL NO.1 (FOR CONTRACTOR/COUNTY QUALITY PURPOSES ONLY.)

EXISTING RIP-RAP AT THE EXISTING OUTFALL. SUPPLEMENT AS NECESSARY DURING CONSTRUCTION.

DRAINAGE AREA=25.4 ACRES (MAXIMUM DRAINAGE AREA=150 ACRES)
SEDIMENT VOLUME REQUIRED=DRAINAGE AREA*67CY/DRAINAGE AREA
SEDIMENT VOLUME REQUIRED=25.4 ACRES*67 CY/AC
SEDIMENT VOLUME REQUIRED=1,702 CY (45,954 CF)
SEDIMENT VOLUME PROVIDED @ 858.00=60,518 CF
SINCE VOLUME PROVIDED>VOLUME REQUIRED, SD3 IS ADEQUATE FOR THIS PHASE OF CONSTRUCTION.

SD4 NO. 1 (TEMPORARY SEDIMENT TRAP) (MAXIMUM DRAINAGE AREA=5 ACRES)

1. **DRAINAGE AREA = 2.63 AC**
2. **REQUIRED SEDIMENT STORAGE=67 CY/AC*DRAINAGE AREA**
   REQUIRED SEDIMENT STORAGE=67 CY/AC*2.63 AC
   REQUIRED SEDIMENT STORAGE=176 CY=4,752 CF
3. **ASSUME EXCAVATION DEPTH (MINIMUM OF 1.5 FT.) 4 FT**
4. **ASSUME SLOPE OF SIDES (SHALL NOT BE STEEPER THAN 2:1)=2:1**
5. **DETERMINE REQUIRED SURFACE AREA**
   SAmin=REQUIRED SEDIMENT STORAGE/EXCAVATION DEPTH
   SAmin=176 CY(4,752 CF)/4 FT
   SAmin=1,188 SF
6. **ASSUME SHAPE OF EXCAVATION AND DETERMINE DIMENSIONS.**
   (A RECTANGULAR SHAPE WITH 2:1 LENGTH TO WIDTH RATION IS RECOMMENDED.)
   SHAPE: RECTANGULAR
   DIMENSIONS: L=40 FT W=40 FT (1,600 SF)

NOTE: SD4 SHALL BE CLEANED TO MAINTAIN A MINIMUM OF 4' DEPTH. CONTRACTOR SHALL REMOVE SILT AS NECESSARY TO PREVENT SILT FROM ENTERING EXISTING STORM SYSTEM.

SILT FENCE TYPE-S SEE DETAIL

STONE FILTER RING SEE DETAIL

POND RISER SEE DETAIL

SKIMMER WITH OUTLET CONTROL STRUCTURE SEE DETAIL

SD1-S DOUBLE ROW

CONTRACTOR TO INSTALL OUTLET CONTROL STRUCTURE ON EXISTING STORM PIPES. STRUCTURE SHALL BE LARGE ENOUGH FOR 2-48" STORM PIPE.
TOP=856.00
BOTTOM 6" ORIFICE=848.37 (SKIMMER INSTALLED)

EXISTING 48" FES INV. 847.00

TEMPORARY SEDIMENT BASIN CROSS SECTION SEE DETAIL

CONTRACTOR SHALL GRADE BERM TO ROUTE STORMWATER TO 18" HDPE DOWN DRAINS PIPES.

APPRO LINER LOCAT

EXISTIN LINER L

LIMITS OF DISTURBANCE

CONTRACTOR IS REQUIRED TO USE THE COUNTY'S TRUCK WASHING STATION PRIOR TO EXITING THE SITE IF EXISTING THROUGH THE MAIN ENTRANCE.

IMPAIRED STREAM SEGMENT PROTECTION NOTES:

THIS SITE IS WITHIN 1 MILE UPSTREAM OF THE WATERSHED OF A "BIO F" IMPAIRED STREAM SEGMENT CATEGORY 4A (CONLEY CREEK). IN COMPLIANCE WITH PART III.C OF THE PERMIT THE FOLLOWING BMPS WILL BE UTILIZED.

D. PLACE A LARGE SIGN (MINIMUM 4'x8') ON THE SITE VISIBLE FROM THE ROADWAY IDENTIFYING THE CONSTRUCTION SITE, THE PERMITTEE(S), AND THE CONTACT PERSON(S) AND TELEPHONE.

F. CONDUCT TURBIDITY SAMPLING AFTER EVERY RAIN EVENT OF 0.5" OR GREATER WITHIN ANY 24 HOUR PERIOD, RECOGNIZING THE EXCEPTIONS SPECIFIED IN PART IV.D.6.d OF THE NPDES PERMITS.

M. APPLY THE APPROPRIATE GDOT APPROVED EROSION CONTROL MATTING OR BLANKETS OR BONDED FIBER MATRIX TO ALL SLOPES STEEPER THAN 3:1

R. CERTIFIED PERSONNEL SHALL CONDUCT INSPECTIONS AT LEAST TWICE EVERY SEVEN (7) CALENDAR DAYS AND WITHIN 24 HOURS OF THE END OF THE STORM THAT IS 0.5 INCHES RAINFALL OR GREATER IN ACCORDANCE WITH PART IV.D.4.a.(2).(a)-(c) OF THE PERMIT.

Calculate Skimmer Size

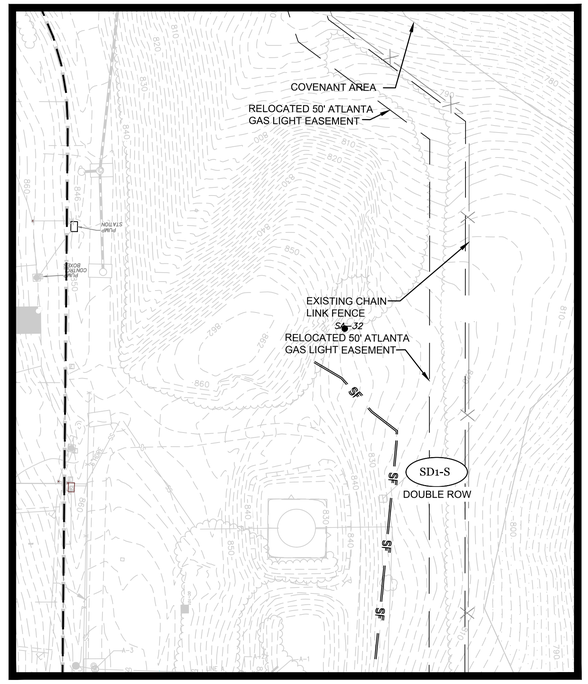
Basin Volume in Cubic Feet	60,518 Cu.Ft	Skimmer Size	5.0 Inch
Days to Drain*	2 Days	Orifice Radius	2.4 Inch[es]
		Orifice Diameter	4.8 Inch[es]

*In NC assume 3 days to drain

Estimate Volume of Basin

	Length	Width			
Top of water surface in feet			Feet	VOLUME	0 Cu. Ft.
Bottom dimensions in feet			Feet		
Depth in feet			Feet		

LANDFILL CELL EROSION CONTROL



LEACHATE TANK EROSION CONTROL

NOTES:
ALL DISTURBED AREAS SHALL BE SEEDED IN ACCORDANCE WITH THE LANDSCAPE NOTES ON THE DETAIL SHEET C801

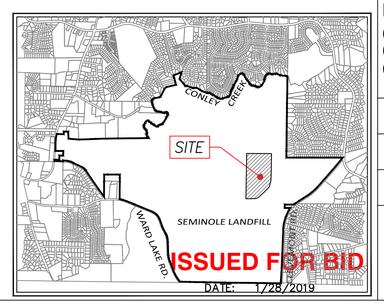
TOTAL SITE ACREAGE: 1,134. DISTURBED AREA: 34 ACRES

ACCORDING TO SOIL SURVEY OF DEKALB COUNTY, GEORGIA THE SITE CONSISTS OF:
(SEE SOILS MAP ON SHEET C706)

ESTIMATED RUNOFF COEFFICIENT: A. PRIOR TO CONSTRUCTION: 61 B. AFTER CONSTRUCTION: 61
SILT FENCE MUST BE IN PLACE PRIOR TO AND DURING ALL LAND DISTURBING ACTIVITIES UNTIL FINAL STABILIZATION OF THE SITE HAS BEEN ACHEIVED.

THE ENTIRE SITE IS WITHIN THE SAME ULTIMATE DRAINAGE BASIN AND THE DISTURBED ACREAGE IS 34 ACRES. THE DRAINAGE BASIN DOES NOT CHANGE WITH THE PROPOSED CONSTRUCTION. THE POST CONSTRUCTION DRAINAGE AREA FOR THE SITE IS 34 ACRES WHICH FLOWS TO AN *CONLEY CREEK* SEE FEMA MAP ON THE COVER SHEET.

VICINITY MAP - N.T.S.



CLIENT
DEKALB COUNTY SANITATION DIVISION

DRAWING TITLE
EROSION CONTROL PLAN INITIAL PHASE

PROJECT TITLE
PHASE 3, UNIT 2, CELLS 1 AND 2 CONSTRUCTION DRAWINGS

SCS ENGINEERS
STEARNS, CONRAD AND SCHMIDT
CONSULTING ENGINEERS
317 SATELLITE BLVD, BLDG. 600, SUITE 100
DULUTH, GA 30096
678 319-9849 FAX 678 319-9851

PROJ. NO. 09218217.04
DSN. BY: JLS
DWN. BY: JLS/WJR
CHK. BY: WJR
Q/A RVW BY: JMS
APP. BY: JLS

CADD FILE: 1-7-19 DeKalb..

DATE: 1/28/2019

SCALE: AS SHOWN

DRAWING NO. **7.1**

D:\Users\jstough\Desktop\Dekalb\2017\09218217.04 Dekalb Landfill Expansion\Drawings\Cell 2\09218217.04 Dekalb Cell 2 Erosion Control Plan.dwg, 3/5/2019 1:47:19 PM, Jason Stough, 24 By: Jason

GSWCC GEORGIA SOIL AND WATER CONSERVATION COMMISION

Jason Stough

Level II Certified Design Professional

CERTIFICATION NUMBER 0000014366

ISSUED 08/04/2018 EXPIRES 08/04/2021

ENGINEER

ONSITE CIVIL GROUP
980 BIRMINGHAM RD
SUITE 501-340
MILTON, GA 30004
CONTACT: JASON STOUGH, PE
678-449-4238
JASON@ONSITECIVIL.COM

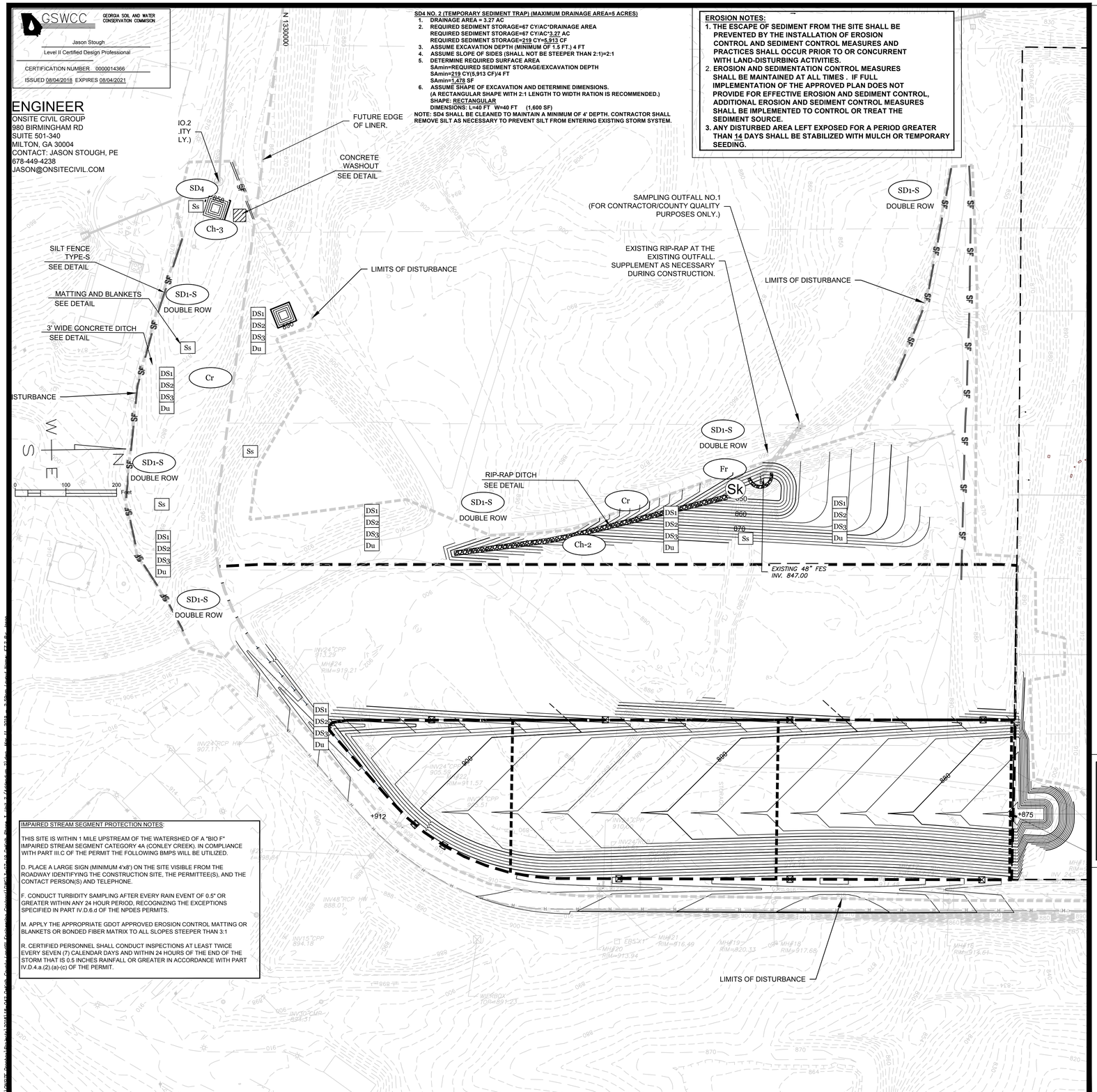
SD4 NO. 2 (TEMPORARY SEDIMENT TRAP) (MAXIMUM DRAINAGE AREA=5 ACRES)

1. DRAINAGE AREA = 3.27 AC
2. REQUIRED SEDIMENT STORAGE=67 CY/AC*DRAINAGE AREA
   REQUIRED SEDIMENT STORAGE=67 CY/AC*3.27 AC
   REQUIRED SEDIMENT STORAGE=219 CY=5,913 CF
3. ASSUME EXCAVATION DEPTH (MINIMUM OF 1.5 FT.) 4 FT
4. ASSUME SLOPE OF SIDES (SHALL NOT BE STEEPER THAN 2:1)=2:1
5. DETERMINE REQUIRED SURFACE AREA
   SAmin=REQUIRED SEDIMENT STORAGE/EXCAVATION DEPTH
   SAmin=219 CY(5,913 CF)/4 FT
   SAmin=1,478 SF
6. ASSUME SHAPE OF EXCAVATION AND DETERMINE DIMENSIONS.
   (A RECTANGULAR SHAPE WITH 2:1 LENGTH TO WIDTH RATION IS RECOMMENDED.)
   SHAPE: RECTANGULAR
   DIMENSIONS: L=40 FT W=40 FT (1,600 SF)

NOTE: SD4 SHALL BE CLEANED TO MAINTAIN A MINIMUM OF 4' DEPTH. CONTRACTOR SHALL REMOVE SILT AS NECESSARY TO PREVENT SILT FROM ENTERING EXISTING STORM SYSTEM.

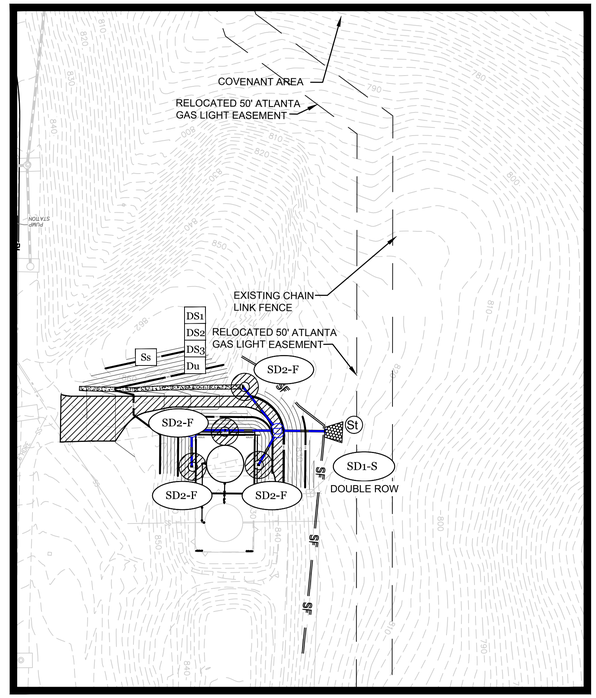
EROSION NOTES:

1. THE ESCAPE OF SEDIMENT FROM THE SITE SHALL BE PREVENTED BY THE INSTALLATION OF EROSION CONTROL AND SEDIMENT CONTROL MEASURES AND PRACTICES SHALL OCCUR PRIOR TO OR CONCURRENT WITH LAND-DISTURBING ACTIVITIES.
2. EROSION AND SEDIMENTATION CONTROL MEASURES SHALL BE MAINTAINED AT ALL TIMES . IF FULL IMPLEMENTATION OF THE APPROVED PLAN DOES NOT PROVIDE FOR EFFECTIVE EROSION AND SEDIMENT CONTROL, ADDITIONAL EROSION AND SEDIMENT CONTROL MEASURES SHALL BE IMPLEMENTED TO CONTROL OR TREAT THE SEDIMENT SOURCE.
3. ANY DISTURBED AREA LEFT EXPOSED FOR A PERIOD GREATER THAN 14 DAYS SHALL BE STABILIZED WITH MULCH OR TEMPORARY SEEDING.



LANDFILL CELL EROSION CONTROL

NOTE:
WASHOUT OF THE CONCRETE TRUCK DRUM ONSITE IS PROHIBITED. WASHOUT OF TOOLS, CONCRETE MIXER CHUTES, HOPPERS, AND THE REAR WHEELS OF VEHICLES SHALL BE HANDLED BY EITHER A PRE-FABRICATED CONCRETE WASHOUT BIN OR A BELOW GRADE SUMP 10'x10' WITH 6" OF FREEBOARD. EITHER BMP SHALL BE LINED WITH 10MIL PLASTIC, OVERLAPPING 4", WITH NO HOLES OR TEARS THAT ALLOW LEAKAGE. A WASHOUT SHOULD BE LOCATED 50' AWAY FROM STORM DRAINS, OPEN DITCHES, OR WATER COURSES. BELOW GRADE WASHOUTS SHALL BE LINED ON THE DOWNSTREAM SIDE WITH HAY BALES.



LEACHATE TANK EROSION CONTROL

NOTES:
ALL DISTURBED AREAS SHALL BE SEEDED IN ACCORDANCE WITH THE LANDSCAPE NOTES ON THE DETAIL SHEET C801

TOTAL SITE ACREAGE: 1,134. DISTURBED AREA: 34 ACRES

ACCORDING TO SOIL SURVEY OF DEKALB COUNTY, GEORGIA THE SITE CONSISTS OF:
(SEE SOILS MAP ON SHEET C706)

ESTIMATED RUNOFF COEFFICIENT: A. PRIOR TO CONSTRUCTION: 61 B. AFTER CONSTRUCTION: 61
SILT FENCE MUST BE IN PLACE PRIOR TO AND DURING ALL LAND DISTURBING ACTIVITIES UNTIL FINAL STABILIZATION OF THE SITE HAS BEEN ACHEIVED.

THE ENTIRE SITE IS WITHIN THE SAME ULTIMATE DRAINAGE BASIN AND THE DISTURBED ACREAGE IS 34 ACRES. THE DRAINAGE BASIN DOES NOT CHANGE WITH THE PROPOSED CONSTRUCTION. THE POST CONSTRUCTION DRAINAGE AREA FOR THE SITE IS 34 ACRES WHICH FLOWS TO AN CONLEY CREEK SEE FEMA MAP ON THE COVER SHEET.

IMPAIRED STREAM SEGMENT PROTECTION NOTES:

THIS SITE IS WITHIN 1 MILE UPSTREAM OF THE WATERSHED OF A "BIO F" IMPAIRED STREAM SEGMENT CATEGORY 4A (CONLEY CREEK). IN COMPLIANCE WITH PART III.C OF THE PERMIT THE FOLLOWING BMPS WILL BE UTILIZED.

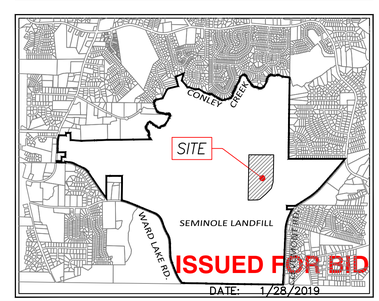
D. PLACE A LARGE SIGN (MINIMUM 4'x8') ON THE SITE VISIBLE FROM THE ROADWAY IDENTIFYING THE CONSTRUCTION SITE, THE PERMITTEE(S), AND THE CONTACT PERSON(S) AND TELEPHONE.

F. CONDUCT TURBIDITY SAMPLING AFTER EVERY RAIN EVENT OF 0.5" OR GREATER WITHIN ANY 24 HOUR PERIOD, RECOGNIZING THE EXCEPTIONS SPECIFIED IN PART IV.D.6.d OF THE NPDES PERMITS.

M. APPLY THE APPROPRIATE GDOT APPROVED EROSION CONTROL MATTING OR BLANKETS OR BONDED FIBER MATRIX TO ALL SLOPES STEEPER THAN 3:1

R. CERTIFIED PERSONNEL SHALL CONDUCT INSPECTIONS AT LEAST TWICE EVERY SEVEN (7) CALENDAR DAYS AND WITHIN 24 HOURS OF THE END OF THE STORM THAT IS 0.5 INCHES RAINFALL OR GREATER IN ACCORDANCE WITH PART IV.D.4.a.(2).(a)-(c) OF THE PERMIT.

VICINITY MAP - N.T.S.



ISSUED FOR BID
DATE: 1/28/2019

GEORGIA REGISTERED No. 36519 PROFESSIONAL ENGINEER JASON STOUGH

ON SITE CIVIL GROUP

980 BIRMINGHAM RD, SUITE 501-340, MILTON, GA 30004
PH 1: (404) 822-9147, PH 2: (678) 449-6938
WWW.ONSITECIVIL.COM
INFO@ONSITECIVIL.COM

GEORGIA REGISTERED No. 36519 PROFESSIONAL ENGINEER SOMMYA BULUSU

REV	DATE	DESCRIPTION	BY

DRAWING TITLE: **EROSION CONTROL PLAN PHASE 1 INTERMEDIATE**

PROJECT TITLE: **PHASE 3, UNIT 2, CELLS 1 AND 2 CONSTRUCTION DRAWINGS**

CLIENT: **DEKALB COUNTY SANITATION DIVISION**

SCS ENGINEERS
STEARNS, CONRAD AND SCHMIDT
CONSULTING ENGINEERS
3175 SATELLITE BLVD. BLDG. 600, SUITE 100
DULUTH, GA 30096
678 319-9848 FAX 678 319-9851

PROJ. NO. 09218217.04
DSN. BY: JLS
DWN. BY: JLS/WJR
CHK. BY: WJR
O/A R/W BY: JMS
APP. BY: JLS

CADD FILE: 1-7-19 DeKalb..
DATE: 1/28/2019
SCALE: AS SHOWN
DRAWING NO. **7.2**

P:\Users\Vision\Favorites\DESKTOP\2018\09218217.04 DeKalb Landfill\Engineering\Construction\Phase 3\Unit 2\Cells 1 and 2\Plans\Phase 3 Unit 2 Cells 1 and 2 EC.dwg, 1/28/2019 3:53:08 PM, Vision, 1:1

GSWCC GEORGIA SOIL AND WATER CONSERVATION COMMISION

Jason Stough

Level II Certified Design Professional

CERTIFICATION NUMBER 0000014366

ISSUED 08/04/2018 EXPIRES 08/04/2021

ENGINEER

ONSITE CIVIL GROUP
980 BIRMINGHAM RD
SUITE 501-340
MILTON, GA 30004
CONTACT: JASON STOUGH, PE
678-449-4238
JASON@ONSITECIVIL.COM

SD4 NO. 2 (TEMPORARY SEDIMENT TRAP) (MAXIMUM DRAINAGE AREA=5 ACRES)

1. DRAINAGE AREA = 3.27 AC
2. REQUIRED SEDIMENT STORAGE=67 CY/AC*DRAINAGE AREA
   REQUIRED SEDIMENT STORAGE=67 CY/AC*3.27 AC
   REQUIRED SEDIMENT STORAGE=219 CY=5,913 CF
3. ASSUME EXCAVATION DEPTH (MINIMUM OF 1.5 FT.) 4 FT
4. ASSUME SLOPE OF SIDES (SHALL NOT BE STEEPER THAN 2:1)=2:1
5. DETERMINE REQUIRED SURFACE AREA
   SAmin=REQUIRED SEDIMENT STORAGE/EXCAVATION DEPTH
   SAmin=219 CY(5,913 CF)/4 FT
   SAmin=1,478 SF
6. ASSUME SHAPE OF EXCAVATION AND DETERMINE DIMENSIONS.
   (A RECTANGULAR SHAPE WITH 2:1 LENGTH TO WIDTH RATION IS RECOMMENDED.)
   SHAPE: RECTANGULAR
   DIMENSIONS: L=40 FT W=40 FT (1,600 SF)

NOTE: SD4 SHALL BE CLEANED TO MAINTAIN A MINIMUM OF 4' DEPTH. CONTRACTOR SHALL REMOVE SILT AS NECESSARY TO PREVENT SILT FROM ENTERING EXISTING STORM SYSTEM.

EROSION NOTES:

1. THE ESCAPE OF SEDIMENT FROM THE SITE SHALL BE PREVENTED BY THE INSTALLATION OF EROSION CONTROL AND SEDIMENT CONTROL MEASURES AND PRACTICES SHALL OCCUR PRIOR TO OR CONCURRENT WITH LAND-DISTURBING ACTIVITIES.
2. EROSION AND SEDIMENTATION CONTROL MEASURES SHALL BE MAINTAINED AT ALL TIMES . IF FULL IMPLEMENTATION OF THE APPROVED PLAN DOES NOT PROVIDE FOR EFFECTIVE EROSION AND SEDIMENT CONTROL, ADDITIONAL EROSION AND SEDIMENT CONTROL MEASURES SHALL BE IMPLEMENTED TO CONTROL OR TREAT THE SEDIMENT SOURCE.
3. ANY DISTURBED AREA LEFT EXPOSED FOR A PERIOD GREATER THAN 14 DAYS SHALL BE STABILIZED WITH MULCH OR TEMPORARY SEEDING.

NOTE:
WASHOUT OF THE CONCRETE TRUCK DRUM ONSITE IS PROHIBITED. WASHOUT OF TOOLS, CONCRETE MIXER CHUTES, HOPPERS, AND THE REAR WHEELS OF VEHICLES SHALL BE HANDLED BY EITHER A PRE-FABRICATED CONCRETE WASHOUT BIN OR A BELOW GRADE SUMP 10'x10' WITH 6" OF FREEBOARD. EITHER BMP SHALL BE LINED WITH 10MIL PLASTIC, OVERLAPPING 4", WITH NO HOLES OR TEARS THAT ALLOW LEAKAGE. A WASHOUT SHOULD BE LOCATED 50' AWAY FROM STORM DRAINS, OPEN DITCHES, OR WATER COURSES. BELOW GRADE WASHOUTS SHALL BE LINED ON THE DOWNSTREAM SIDE WITH HAY BALES.

GEORGIA REGISTERED No. 36519 PROFESSIONAL ENGINEER JASON STOUGH

ON SITE CIVIL GROUP
980 BIRMINGHAM RD, SUITE 501-340, MILTON, GA 30004
PH 1: (404) 822-9147, PH 2: (678) 449-6938
WWW.ONSITECIVIL.COM
INFO@ONSITECIVIL.COM

GEORGIA REGISTERED No. 36519 PROFESSIONAL ENGINEER SOWMYA BULUSU

FUTURE EDGE OF LINER.

LIMITS OF DISTURBANCE

SAMPLING OUTFALL NO.1 (FOR CONTRACTOR/COUNTY QUALITY PURPOSES ONLY.)

EXISTING RIP-RAP AT THE EXISTING OUTFALL. SUPPLEMENT AS NECESSARY DURING CONSTRUCTION.

LIMITS OF DISTURBANCE

LIMITS OF DISTURBANCE

SD1-S DOUBLE ROW

SD1-S DOUBLE ROW

SD1-S DOUBLE ROW

SD1-S DOUBLE ROW

SD1-S DOUBLE ROW

DS4

Fr

Sk

EXISTING 48" FES INV. 847.00

+912

+875

LIMITS OF DISTURBANCE

0 100 200 Feet

IMPAIRED STREAM SEGMENT PROTECTION NOTES:

THIS SITE IS WITHIN 1 MILE UPSTREAM OF THE WATERSHED OF A "BIO F" IMPAIRED STREAM SEGMENT CATEGORY 4A (CONLEY CREEK). IN COMPLIANCE WITH PART III.C OF THE PERMIT THE FOLLOWING BMPS WILL BE UTILIZED.

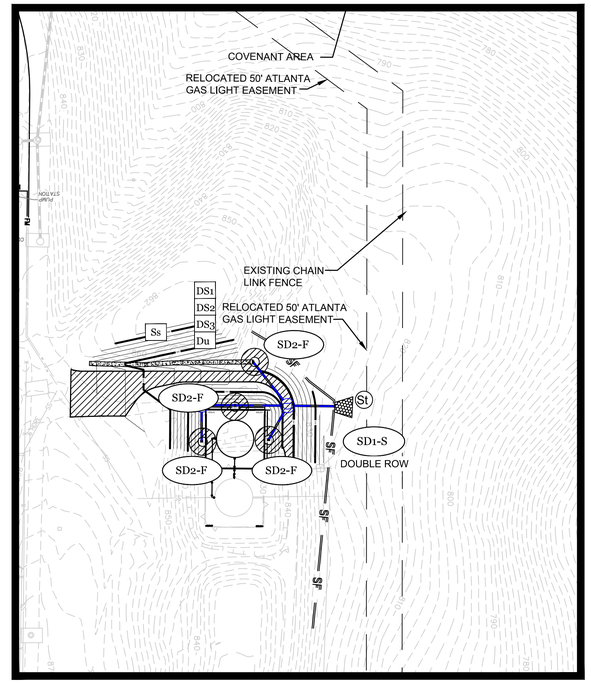
D. PLACE A LARGE SIGN (MINIMUM 4'x8') ON THE SITE VISIBLE FROM THE ROADWAY IDENTIFYING THE CONSTRUCTION SITE, THE PERMITTEE(S), AND THE CONTACT PERSON(S) AND TELEPHONE.

F. CONDUCT TURBIDITY SAMPLING AFTER EVERY RAIN EVENT OF 0.5" OR GREATER WITHIN ANY 24 HOUR PERIOD, RECOGNIZING THE EXCEPTIONS SPECIFIED IN PART IV.D.6.d OF THE NPDES PERMITS.

M. APPLY THE APPROPRIATE GDOT APPROVED EROSION CONTROL MATTING OR BLANKETS OR BONDED FIBER MATRIX TO ALL SLOPES STEEPER THAN 3:1

R. CERTIFIED PERSONNEL SHALL CONDUCT INSPECTIONS AT LEAST TWICE EVERY SEVEN (7) CALENDAR DAYS AND WITHIN 24 HOURS OF THE END OF THE STORM THAT IS 0.5 INCHES RAINFALL OR GREATER IN ACCORDANCE WITH PART IV.D.4.a.(2).(a)-(c) OF THE PERMIT.

LANDFILL CELL EROSION CONTROL



LEACHATE TANK EROSION CONTROL

NOTES:
ALL DISTURBED AREAS SHALL BE SEEDED IN ACCORDANCE WITH THE LANDSCAPE NOTES ON THE DETAIL SHEET C801

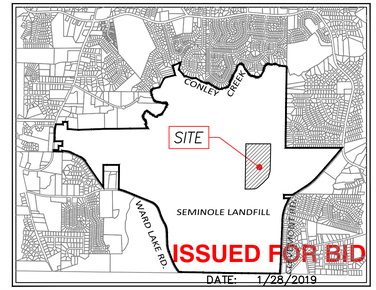
TOTAL SITE ACREAGE: 1,134, DISTURBED AREA: 34 ACRES

ACCORDING TO SOIL SURVEY OF DEKALB COUNTY, GEORGIA THE SITE CONSISTS OF:
(SEE SOILS MAP ON SHEET C706)

ESTIMATED RUNOFF COEFFICIENT: A. PRIOR TO CONSTRUCTION: 61 B. AFTER CONSTRUCTION: 61
SILT FENCE MUST BE IN PLACE PRIOR TO AND DURING ALL LAND DISTURBING ACTIVITIES UNTIL FINAL STABILIZATION OF THE SITE HAS BEEN ACHEIVED.

THE ENTIRE SITE IS WITHIN THE SAME ULTIMATE DRAINAGE BASIN AND THE DISTURBED ACREAGE IS 34 ACRES. THE DRAINAGE BASIN DOES NOT CHANGE WITH THE PROPOSED CONSTRUCTION. THE POST CONSTRUCTION DRAINAGE AREA FOR THE SITE IS 34 ACRES WHICH FLOWS TO AN CONLEY CREEK SEE FEMA MAP ON THE COVER SHEET.

VICINITY MAP - N.T.S.



ISSUED FOR BID
DATE: 1/28/2019

REV	DATE	DESCRIPTION	BY

DRAWING TITLE: EROSION CONTROL PLAN PHASE 1 FINAL

PROJECT TITLE: PHASE 3, UNIT 2, CELLS 1 AND 2 CONSTRUCTION DRAWINGS

CLIENT: DEKALB COUNTY SANITATION DIVISION

SCS ENGINEERS
STEARNS, CONRAD AND SCHMIDT
CONSULTING ENGINEERS
3715 SATELLITE BLVD, BLDG. 600, SUITE 100
DULUTH, GA 30096
678 319-9849 FAX 678 319-9801

PROJ. NO. 09218217.04
DSN. BY: JLS
DWN. BY: JLS /WJR
CHK. BY: WJR
Q/A R/W BY: JMS
APP. BY: JLS

CADD FILE: 1-7-19 DeKalb..

DATE: 1/28/2019

SCALE: AS SHOWN

DRAWING NO. 7.3

G:\Users\jstough\Desktop\ONSITE Projects\DeKalb\Cell 1 & 2 Permit\Cell 1 & 2 Permit Drawings\Cell 1 & 2 Phase 3 Unit 2 Drawings\Cell 1 & 2 Phase 3 Unit 2 Erosion Control Plan.dwg, 1/28/2019 2:14:47 PM, jstough

GSWCC GEORGIA SOIL AND WATER CONSERVATION COMMISSION

Jason Stough

Level II Certified Design Professional

CERTIFICATION NUMBER 0000014366

ISSUED 08/04/2018 EXPIRES 08/04/2021

ENGINEER

ONSITE CIVIL GROUP
980 BIRMINGHAM RD
SUITE 501-340
MILTON, GA 30004
CONTACT: JASON STOUGH, PE
678-449-4238
JASON@ONSITECIVIL.COM

SD2-E (EXCAVATED INLET SEDIMENT TRAP)

1. DRAINAGE AREA = 5.79 AC
2. REQUIRED SEDIMENT STORAGE=67 CY/AC*DRAINAGE AREA
   REQUIRED SEDIMENT STORAGE=67 CY/AC*5.78 AC
   REQUIRED SEDIMENT STORAGE=388 CY=10,456 CF
3. ASSUME EXCAVATION DEPTH (MINIMUM OF 1.5 FT.) 6 FT
4. ASSUME SLOPE OF SIDES (SHALL NOT BE STEEPER THAN 2:1)=2:1
5. DETERMINE REQUIRED SURFACE AREA
   SAmin=REQUIRED SEDIMENT STORAGE/EXCAVATION DEPTH
   SAmin=388 CY(10,456 CF)/6 FT
   SAmin=1,743 SF
6. ASSUME SHAPE OF EXCAVATION AND DETERMINE DIMENSIONS.
   (A RECTANGULAR SHAPE WITH 2:1 LENGTH TO WIDTH RATION IS RECOMMENDED.)
   SHAPE: RECTANGULAR
   DIMENSIONS: L=45 FT W=45 FT

EROSION NOTES:

1. THE ESCAPE OF SEDIMENT FROM THE SITE SHALL BE PREVENTED BY THE INSTALLATION OF EROSION CONTROL AND SEDIMENT CONTROL MEASURES AND PRACTICES SHALL OCCUR PRIOR TO OR CONCURRENT WITH LAND-DISTURBING ACTIVITIES.
2. EROSION AND SEDIMENTATION CONTROL MEASURES SHALL BE MAINTAINED AT ALL TIMES . IF FULL IMPLEMENTATION OF THE APPROVED PLAN DOES NOT PROVIDE FOR EFFECTIVE EROSION AND SEDIMENT CONTROL, ADDITIONAL EROSION AND SEDIMENT CONTROL MEASURES SHALL BE IMPLEMENTED TO CONTROL OR TREAT THE SEDIMENT SOURCE.
3. ANY DISTURBED AREA LEFT EXPOSED FOR A PERIOD GREATER THAN 14 DAYS SHALL BE STABILIZED WITH MULCH OR TEMPORARY SEEDING.

NOTE:
WASHOUT OF THE CONCRETE TRUCK DRUM ONSITE IS PROHIBITED. WASHOUT OF TOOLS, CONCRETE MIXER CHUTES, HOPPERS, AND THE REAR WHEELS OF VEHICLES SHALL BE HANDLED BY EITHER A PRE-FABRICATED CONCRETE WASHOUT BIN OR A BELOW GRADE SUMP 10'x10' WITH 6" OF FREEBOARD. EITHER BMP SHALL BE LINED WITH 10MIL PLASTIC, OVERLAPPING 4", WITH NO HOLES OR TEARS THAT ALLOW LEAKAGE. A WASHOUT SHOULD BE LOCATED 50' AWAY FROM STORM DRAINS, OPEN DITCHES, OR WATER COURSES. BELOW GRADE WASHOUTS SHALL BE LINED ON THE DOWNSTREAM SIDE WITH HAY BALES.

GEORGIA REGISTERED No. 36500 PROFESSIONAL ENGINEER JASON STOUGH

ON SITE CIVIL GROUP
980 BIRMINGHAM RD, SUITE 501-340, MILTON, GA 30004
PH 1: (404) 822-9147, PH 2: (678) 449-6938
WWW.ONSITECIVIL.COM
INFO@ONSITECIVIL.COM

GEORGIA REGISTERED No. 36500 PROFESSIONAL ENGINEER SOMMYA BULUSU

SAMPLING OUTFALL NO.2 (FOR CONTRACTOR/COUNTY QUALITY PURPOSES ONLY.)

OF LINER.

CONCRETE WASHOUT SEE DETAIL

SILT FENCE TYPE-S SEE DETAIL

MATTING AND BLANKETS SEE DETAIL

3' WIDE CONCRETE DITCH SEE DETAIL

LIMITS OF DISTURBANCE

SAMPLING OUTFALL NO.1 (FOR CONTRACTOR/COUNTY QUALITY PURPOSES ONLY.)

EXISTING RIP-RAP AT THE EXISTING OUTFALL. SUPPLEMENT AS NECESSARY DURING CONSTRUCTION.

RIP-RAP DITCH SEE DETAIL

EXISTING 48" FES INV. 847.00

EXISTING ED OF LIN

E 2268000

E 2269000

E 2269000

N 1330000

SD4 · SD1-S DOUBLE ROW · Ch-3 · Cr · Ch-2 · Sk · Fr · Ss · DS1 · DS2 · DS3 · Du

IMPAIRED STREAM SEGMENT PROTECTION NOTES:

THIS SITE IS WITHIN 1 MILE UPSTREAM OF THE WATERSHED OF A "BIO F" IMPAIRED STREAM SEGMENT CATEGORY 4A (CONLEY CREEK). IN COMPLIANCE WITH PART III.C OF THE PERMIT THE FOLLOWING BMPS WILL BE UTILIZED.

D. PLACE A LARGE SIGN (MINIMUM 4'x8') ON THE SITE VISIBLE FROM THE ROADWAY IDENTIFYING THE CONSTRUCTION SITE, THE PERMITTEE(S), AND THE CONTACT PERSON(S) AND TELEPHONE.

F. CONDUCT TURBIDITY SAMPLING AFTER EVERY RAIN EVENT OF 0.5" OR GREATER WITHIN ANY 24 HOUR PERIOD, RECOGNIZING THE EXCEPTIONS SPECIFIED IN PART IV.D.6.d OF THE NPDES PERMITS.

M. APPLY THE APPROPRIATE GDOT APPROVED EROSION CONTROL MATTING OR BLANKETS OR BONDED FIBER MATRIX TO ALL SLOPES STEEPER THAN 3:1

R. CERTIFIED PERSONNEL SHALL CONDUCT INSPECTIONS AT LEAST TWICE EVERY SEVEN (7) CALENDAR DAYS AND WITHIN 24 HOURS OF THE END OF THE STORM THAT IS 0.5 INCHES RAINFALL OR GREATER IN ACCORDANCE WITH PART IV.D.4.a.(2).(a)-(c) OF THE PERMIT.

NOTES:

ALL DISTURBED AREAS SHALL BE SEEDED IN ACCORDANCE WITH THE LANDSCAPE NOTES ON THE DETAIL SHEET C801

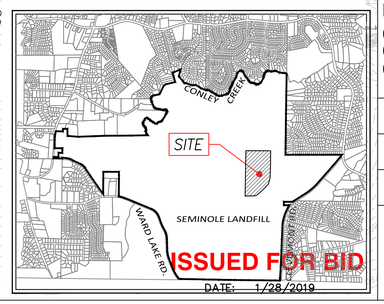
TOTAL SITE ACREAGE: 1,134. DISTURBED AREA: 34 ACRES

ACCORDING TO SOIL SURVEY OF DEKALB COUNTY, GEORGIA THE SITE CONSISTS OF:
(SEE SOILS MAP ON SHEET C706)

ESTIMATED RUNOFF COEFFICIENT: A. PRIOR TO CONSTRUCTION: 61 B. AFTER CONSTRUCTION: 61
SILT FENCE MUST BE IN PLACE PRIOR TO AND DURING ALL LAND DISTURBING ACTIVITIES UNTIL FINAL STABILIZATION OF THE SITE HAS BEEN ACHEIVED.

THE ENTIRE SITE IS WITHIN THE SAME ULTIMATE DRAINAGE BASIN AND THE DISTURBED ACREAGE IS 34 ACRES. THE DRAINAGE BASIN DOES NOT CHANGE WITH THE PROPOSED CONSTRUCTION. THE POST CONSTRUCTION DRAINAGE AREA FOR THE SITE IS 34 ACRES WHICH FLOWS TO AN *CONLEY CREEK* SEE FEMA MAP ON THE COVER SHEET.

VICINITY MAP - N.T.S.



ISSUED FOR BID
DATE: 1/28/2019

REV	DATE	DESCRIPTION	BY

DRAWING TITLE: EROSION CONTROL PLAN PHASE 2 INTERMEDIATE

PROJECT TITLE: PHASE 3, UNIT 2, CELLS 1 AND 2 CONSTRUCTION DRAWINGS

CLIENT: DEKALB COUNTY SANITATION DIVISION

SCS ENGINEERS
STEARNS, CONRAD AND SCHMIDT
CONSULTING ENGINEERS
3175 SATELLITE BLVD, BLDG. 600, SUITE 100
DULUTH, GA 30096
678 319-9840 FAX 678 319-9851

PROJ. NO.	DWN. BY:	CHK. BY:	Q/A R/W BY:	APP'D BY:
09218217.04	JLS /WJR	WJR	JMS	JLS
DSN. BY: JLS				

CADD FILE: 1-7-19 DeKalb..

DATE: 1/28/2019

SCALE: AS SHOWN

DRAWING NO. **7.4**

D:\Users\Jason\Favorites\ONSITE Dropbox\Projects\2018\18-042 DeKalb County Landfill\Engineering Contract\DWG\1-07-19 DeKalb Phase 3, Unit 2 (Addendum 2).dwg Mar 11, 2019 - 3:09pm Layout Name: E7.4 By: Jason

GSWCC GEORGIA SOIL AND WATER CONSERVATION COMMISSION

Jason Stough

Level II Certified Design Professional

CERTIFICATION NUMBER 0000014366

ISSUED 08/04/2018 EXPIRES 08/04/2021

ENGINEER

ONSITE CIVIL GROUP
980 BIRMINGHAM RD
SUITE 501-340
MILTON, GA 30004
CONTACT: JASON STOUGH, PE
678-449-4238
JASON@ONSITECIVIL.COM

SD2-E (EXCAVATED INLET SEDIMENT TRAP)

1. DRAINAGE AREA = 5.78 AC
2. REQUIRED SEDIMENT STORAGE=67 CY/AC*DRAINAGE AREA
   REQUIRED SEDIMENT STORAGE=67 CY/AC*5.78 AC
   REQUIRED SEDIMENT STORAGE=388 CY=10,456 CF
3. ASSUME EXCAVATION DEPTH (MINIMUM OF 1.5 FT.) 6 FT
4. ASSUME SLOPE OF SIDES (SHALL NOT BE STEEPER THAN 2:1)=2:1
5. DETERMINE REQUIRED SURFACE AREA
   SAmin=REQUIRED SEDIMENT STORAGE/EXCAVATION DEPTH
   SAmin=388 CY(10,456 CF)/6 FT
   SAmin=1,743 SF
6. ASSUME SHAPE OF EXCAVATION AND DETERMINE DIMENSIONS.
   (A RECTANGULAR SHAPE WITH 2:1 LENGTH TO WIDTH RATION IS RECOMMENDED.)
   SHAPE: RECTANGULAR
   DIMENSIONS: L=45 FT W=45 FT

EROSION NOTES:

1. THE ESCAPE OF SEDIMENT FROM THE SITE SHALL BE PREVENTED BY THE INSTALLATION OF EROSION CONTROL AND SEDIMENT CONTROL MEASURES AND PRACTICES SHALL OCCUR PRIOR TO OR CONCURRENT WITH LAND-DISTURBING ACTIVITIES.
2. EROSION AND SEDIMENTATION CONTROL MEASURES SHALL BE MAINTAINED AT ALL TIMES . IF FULL IMPLEMENTATION OF THE APPROVED PLAN DOES NOT PROVIDE FOR EFFECTIVE EROSION AND SEDIMENT CONTROL, ADDITIONAL EROSION AND SEDIMENT CONTROL MEASURES SHALL BE IMPLEMENTED TO CONTROL OR TREAT THE SEDIMENT SOURCE.
3. ANY DISTURBED AREA LEFT EXPOSED FOR A PERIOD GREATER THAN 14 DAYS SHALL BE STABILIZED WITH MULCH OR TEMPORARY SEEDING.

NOTE:
WASHOUT OF THE CONCRETE TRUCK DRUM ONSITE IS PROHIBITED. WASHOUT OF TOOLS, CONCRETE MIXER CHUTES, HOPPERS, AND THE REAR WHEELS OF VEHICLES SHALL BE HANDLED BY EITHER A PRE-FABRICATED CONCRETE WASHOUT BIN OR A BELOW GRADE SUMP 10'x10' WITH 6" OF FREEBOARD. EITHER BMP SHALL BE LINED WITH 10MIL PLASTIC, OVERLAPPING 4", WITH NO HOLES OR TEARS THAT ALLOW LEAKAGE. A WASHOUT SHOULD BE LOCATED 50' AWAY FROM STORM DRAINS, OPEN DITCHES, OR WATER COURSES. BELOW GRADE WASHOUTS SHALL BE LINED ON THE DOWNSTREAM SIDE WITH HAY BALES.

GEORGIA REGISTERED No. 36508 PROFESSIONAL ENGINEER JASON STOUGH

GEORGIA REGISTERED No. 36508 PROFESSIONAL ENGINEER SOMMYA BULUSU

ON SITE CIVIL GROUP
980 BIRMINGHAM RD, SUITE 501-340, MILTON, GA 30004
PH 1: (404) 822-9147, PH 2: (678) 449-6938
WWW.ONSITECIVIL.COM
INFO@ONSITECIVIL.COM

N 0 E 0 S W

0 100 200 Feet

E 2268000

E 2269000

E 2269000

N 1330000

FUTURE EDGE OF LINER.

LIMITS OF DISTURBANCE

LIMITS OF DISTURBANCE

SAMPLING OUTFALL NO.1 (FOR CONTRACTOR/COUNTY QUALITY PURPOSES ONLY.)

EXISTING RIP-RAP AT THE EXISTING OUTFALL. SUPPLEMENT AS NECESSARY DURING CONSTRUCTION.

LIMITS OF DISTURBANCE

EDGE OF ACCESS ROAD. EXISTING ACCESS ROAD TO NEW CELL TO BE BARRICADED FOR NO TRAFFIC FLOW.

SD1-S DOUBLE ROW

SD1-S DOUBLE ROW

SD1-S DOUBLE ROW

SD1-S DOUBLE ROW

DS4

Fr

Sk

EXISTING 48" FES INV. -847.00

LIMITS OF DISTURBANCE

EXISTING ED OF LIN

LIMITS OF DISTURBANCE

IMPAIRED STREAM SEGMENT PROTECTION NOTES:

THIS SITE IS WITHIN 1 MILE UPSTREAM OF THE WATERSHED OF A "BIO F" IMPAIRED STREAM SEGMENT CATEGORY 4A (CONLEY CREEK). IN COMPLIANCE WITH PART III.C OF THE PERMIT THE FOLLOWING BMPS WILL BE UTILIZED.

D. PLACE A LARGE SIGN (MINIMUM 4'x8') ON THE SITE VISIBLE FROM THE ROADWAY IDENTIFYING THE CONSTRUCTION SITE, THE PERMITTEE(S), AND THE CONTACT PERSON(S) AND TELEPHONE.

F. CONDUCT TURBIDITY SAMPLING AFTER EVERY RAIN EVENT OF 0.5" OR GREATER WITHIN ANY 24 HOUR PERIOD, RECOGNIZING THE EXCEPTIONS SPECIFIED IN PART IV.D.6.d OF THE NPDES PERMITS.

M. APPLY THE APPROPRIATE GDOT APPROVED EROSION CONTROL MATTING OR BLANKETS OR BONDED FIBER MATRIX TO ALL SLOPES STEEPER THAN 3:1

R. CERTIFIED PERSONNEL SHALL CONDUCT INSPECTIONS AT LEAST TWICE EVERY SEVEN (7) CALENDAR DAYS AND WITHIN 24 HOURS OF THE END OF THE STORM THAT IS 0.5 INCHES RAINFALL OR GREATER IN ACCORDANCE WITH PART IV.D.4.a.(2).(a)-(c) OF THE PERMIT.

NOTES:
ALL DISTURBED AREAS SHALL BE SEEDED IN ACCORDANCE WITH THE LANDSCAPE NOTES ON THE DETAIL SHEET C801

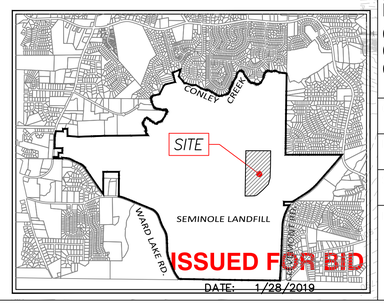
TOTAL SITE ACREAGE: 1,134. DISTURBED AREA: 34 ACRES

ACCORDING TO SOIL SURVEY OF DEKALB COUNTY, GEORGIA THE SITE CONSISTS OF:
(SEE SOILS MAP ON SHEET C706)

ESTIMATED RUNOFF COEFFICIENT: A. PRIOR TO CONSTRUCTION: 61 B. AFTER CONSTRUCTION: 61
SILT FENCE MUST BE IN PLACE PRIOR TO AND DURING ALL LAND DISTURBING ACTIVITIES UNTIL FINAL STABILIZATION OF THE SITE HAS BEEN ACHEIVED.

THE ENTIRE SITE IS WITHIN THE SAME ULTIMATE DRAINAGE BASIN AND THE DISTURBED ACREAGE IS 34 ACRES. THE DRAINAGE BASIN DOES NOT CHANGE WITH THE PROPOSED CONSTRUCTION. THE POST CONSTRUCTION DRAINAGE AREA FOR THE SITE IS 34 ACRES WHICH FLOWS TO AN *CONLEY CREEK* SEE FEMA MAP ON THE COVER SHEET.

VICINITY MAP - N.T.S.



ISSUED FOR BID

DATE: 1/28/2019

REV	DATE	DESCRIPTION	BY

DRAWING TITLE: EROSION CONTROL PLAN PHASE 2 FINAL

PROJECT TITLE: PHASE 3, UNIT 2, CELLS 1 AND 2 CONSTRUCTION DRAWINGS

CLIENT: DEKALB COUNTY SANITATION DIVISION

SCS ENGINEERS
STEARNS, CONRAD AND SCHMIDT
CONSULTING ENGINEERS
3175 SATELLITE BLVD. BLDG. 600, SUITE 100
DULUTH, GA 30096
678 319-9849 FAX 678 319-9851

PROJ. NO. 09218217.04
DSN. BY: JLS
DWN. BY: JLS /WJR
CHK. BY: WJR
Q/A R/W BY: JMS
APP'D BY: JLS

CADD FILE: 1-7-19 DeKalb..

DATE: 1/28/2019

SCALE: AS SHOWN

DRAWING NO. 7.5

D:\Users\Jason\Favorites\ONSITE Dropbox\Projects\2018\18-042 DeKalb County Landfill Engineering Contract\DWG\1-07-19 DeKalb Phase 3, Unit 2 (Addendum 2).dwg, Mar 11, 2019 - 3:09pm, Layout Name: E7.5 By: Jason

STATE OF GEORGIA EROSION, SEDIMENTATION & POLLUTION CONTROL NPDES NOTES

ITEM #1

THE APPLICABLE EROSION, SEDIMENTATION AND POLLUTION CONTROL PLAN CHECKLIST ESTABLISHED BY THE COMMISSION AS OF JANUARY 1 2017 IS SUBMITTED TO THE LIA WITH THESE PLANS FOR REVIEW. THESE PLANS ARE IN ACCORDANCE WITH GENERAL PERMIT GAR 1000001 STAND ALONE PROJECT.

ITEM #2

GSWCC — GEORGIA SOIL AND WATER CONSERVATION COMMISION

Jason Stough
Level II Certified Design Professional
CERTIFICATION NUMBER 0000014366
ISSUED 08/04/2018 EXPIRES 08/04/2021

GSWCC — GEORGIA SOIL AND WATER CONSERVATION COMMISION

Jarrett M Senkbeil
Level II Certified Design Professional
CERTIFICATION NUMBER 0000048660
ISSUED 01/02/2017 EXPIRES 01/02/2020

ITEM #3

LIMIT OF DISTURBANCE SHALL BE NO GREATER THAN 50 ACRES AT ANY ONE TIME WITHOUT PRIOR WRITTEN AUTHORIZATION FROM THE EPD DISTRICT OFFICE. IF EPD APPROVES THE REQUEST TO DISTURB 50 ACRES OR MORE AT ANY ONE TIME, THE PLAN MUST INCLUDE AT LEAST 4 OF THE BMPS LISTED IN APPENDIX 1 OF THIS CHECKLIST. (A COPY OF THE WRITTEN APPROVAL BY EPD MUST BE ATTACHED TO THE PLAN FOR THE PLAN TO BE REVIEWED.)

ITEM #4

THE NAME AND PHONE NUMBER OF THE 24-HOUR LOCAL CONTACT RESPONSIBLE FOR EROSION, SEDIMENTATION AND POLLUTION CONTROLS IS TRACY HUTCHINSON, PHONE NUMBER404-713-2501

ITEM #5

THE NAME, ADDRESS AND PHONE NUMBER OF PRIMARY PERMITTEE OR TERTIARY PERMITTEE IS:

TRACY HUTCHINSON
3720 LEROY SCOTT DRIVE
DECATUR, GEORGIA 30032
404–294–2177

ITEM #6

TOTAL SITE ACRES = 1,134
TOTAL DISTURBED ACRES = 34 ACRES

ITEM #7

GPS LOCATION OF THE CONSTRUCTION EXIT: LATITUDE N: 34°38'50"
LONGITUDE W: – 84°15'16". THIS INFORMATION IS ALSO LOCATED ON SHEET 3.3.

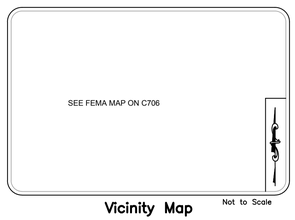
ITEM #8

INITIAL DATE AND REVISION DATES OF THE PLAN, INCLUDING THE ENTITY WHO REQUESTED THE REVISIONS, ARE DEPICTED ON ALL SHEETS IN THE TITLE BLOCK.

ITEM #9

THE EXISTING SITE IS AN EXISTING LANDFILL SITE. THE AREA WHERE THE CELL IS GOING IS CURRENTLY BEING DISTURBED AND FILLED DUE TO NORMAL LANDFILL OPERATIONS.
THE PROPOSED CONSTRUCTION INCLUDES A LANDFILL CELL.

ITEM #10



Vicinity Map — Not to Scale

ITEM #11

PROJECT RECEIVING WATERS CONLEY CREEK

THERE ARE WETLANDS THAT EXIST ON SITE. THERE ARE STATE WATERS WITHIN 200FT OF THE SITE. ALL APPROPRIATE BUFFERS ARE SHOWN ON SHEETS 3.7. THERE IS NO PROPOSED IMPACT TO STATE WATERS FOR THIS PHASE OF THIS PROJECT. THERE IS NO PROPOSED IMPACT TO WETLANDS FOR THIS PHASE OF THIS PROJECT.

ITEM #12 -13

"I CERTIFY UNDER PENALTY OF LAW THAT THIS PLAN WAS PREPARED AFTER A SITE VISIT TO THE LOCATIONS DESCRIBED HEREIN BY MYSELF OR MY AUTHORIZED AGENT, UNDER MY SUPERVISION."

"I CERTIFY THAT THE PERMITTEE'S EROSION, SEDIMENTATION AND POLLUTION CONTROL PLAN PROVIDES FOR AN APPROPRIATE AND COMPREHENSIVE SYSTEM OF BEST MANAGEMENT PRACTICES REQUIRED BY THE GEORGIA WATER QUALITY CONTROL ACT AND THE DOCUMENT "MANUAL FOR EROSION AND SEDIMENT CONTROL IN GEORGIA" (MANUAL) PUBLISHED BY THE STATE SOIL AND WATER CONSERVATION COMMISSION AS OF JANUARY 1 OF THE YEAR IN WHICH THE LAND-DISTURBING ACTIVITY WAS PERMITTED, PROVIDES FOR THE SAMPLING OF THE RECEIVING WATER(S) OR THE SAMPLING OF THE STORM WATER OUTFALLS AND THAT THE DESIGNED SYSTEM OF BEST MANAGEMENT PRACTICES AND SAMPLING METHODS IS EXPECTED TO MEET THE REQUIREMENTS CONTAINED IN THE GENERAL NPDES PERMIT NO. GAR 100001."

CERTIFIED BY (DESIGN PROFESSIONAL) — 11/21/2018 DATE

ITEM #14

FOR STAND ALONE PROJECTS THAT BEGIN CONSTRUCTION ACTIVITY AFTER THE EFFECTIVE DATE OF THIS PERMIT, THE PRIMARY PERMITTEE MUST RETAIN THE DESIGN PROFESSIONAL WHO PREPARED THE EROSION, SEDIMENTATION AND POLLUTION CONTROL PLAN, OR AN ALTERNATIVE DESIGN PROFESSIONAL APPROVED BY EPD IN WRITING, TO INSPECT THE INSTALLATION OF THE INITIAL SEDIMENT STORAGE REQUIREMENTS AND PERIMETER CONTROL BMPS WHICH THE DESIGN PROFESSIONAL DESIGNED WITHIN SEVEN (7) DAYS AFTER INSTALLATION. THE DESIGN PROFESSIONAL SHALL DETERMINE IF THESE BMPS HAVE BEEN INSTALLED AND ARE BEING MAINTAINED AS DESIGNED. THE DESIGN PROFESSIONAL SHALL REPORT THE RESULTS OF THE INSPECTION TO THE PRIMARY PERMITTEE WITHIN SEVEN (7) DAYS AND THE PERMITTEE MUST CORRECT ALL DEFICIENCIES WITHIN TWO (2) BUSINESS DAYS OF RECEIPT OF THE INSPECTION REPORT FROM THE DESIGN PROFESSIONAL UNLESS WEATHER RELATED SITE CONDITIONS ARE SUCH THAT ADDITIONAL TIME IS REQUIRED.

THE DESIGN PROFESSIONAL WHO PREPARED THE ES&PC PLAN IS TO INSPECT THE INSTALLATION OF THE INITIAL SEDIMENT STORAGE REQUIREMENTS AND PERIMETER CONTROL BMPS WITHIN 7 DAYS AFTER INSTALLATION.

ITEM # 15

NON-EXEMPT ACTIVITIES SHALL NOT BE CONDUCTED WITHIN THE 25 OR 50 FOOT UNDISTURBED STREAM BUFFERS AS MEASURED FROM THE POINT OF WRESTED VEGETATION OR WITHIN 25' OF THE COASTAL MARSH LAND BUFFER AS MEASURED FROM THE JURISDICTIONAL DETERMINATION LINE WITHOUT FIRST ACQUIRING THE NECESSARY VARIANCES AND PERMITS.

ITEM # 16

THERE ARE NOT ANY BUFFER ENCROACHMENTS PLANNED FOR THIS PROJECT. THEREFORE NO BUFFER VARIANCES ARE REQUIRED.

ITEM # 17

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

ITEM # 18

NO WASTE WILL BE DISPOSED OF INTO STORM WATER SYSTEM INLETS OR WATERS OF THE STATE WASTE MATERIALS: EXCEPT AS AUTHORIZED BY A SECTION 404 PERMIT. 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 AS REQUIRED BY LOCAL REGULATIONS. NO CONSTRUCTION WASTE WILL BE BURIED ONSITE. ALL PERSONNEL WILL BE INSTRUCTED ON PROPER PROCEDURES FOR WASTE DISPOSAL. A NOTICE STAKING THESE PRACTICES WILL BE POSTED AT THE JOBSITE AND THE CONTRACTOR WILL BE RESPONSIBLE FOR SEEING THAT THESE PROCEDURES ARE FOLLOWED.

ITEM #19

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

ITEM #20

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.

ITEM #21

ANY DISTURBED AREA LEFT EXPOSED FOR A PERIOD GREATER THAN 14 DAYS SHALL BE STABILIZED WITH MULCH OR TEMPORARY SEEDING.

ITEM #22

THE PROJECT CONSTRUCTION ACTIVITY DOES DISCHARGE STORM WATER INTO AN IMPAIRED STREAM SEGMENT, OR WITHIN 1 LINEAR MILE UPSTREAM OF AND WITHIN THE SAME WATERSHED AS AN IMPAIRED STREAM SEGMENT. THE SITE DRAINS TO CONLEY CREEK.

ITEM #23

A TMDL PLAN WAS COMPLETED IN 2002 AND 2007 FOR FECAL COLIFORM (FC) BUT THERE IS NO TMDL FOR SEDIMENT. BECAUSE THERE IS NO TMDL FOR SEDIMTENT THERE IS NOTHING ADDITIONAL TO IMPLEMENT.

ITEM #24

SEE SHEET 8 FOR BMPS FOR CONCRETE WASH DOWN OF TOOLS, CONCRETE MIXER CHUTES, HOPPERS AND THE REAR OF THE VEHICLES. WASHOUT OF THE DRUM AT THE CONSTRUCTION SITE IS PROHIBITED.

ITEM #25

REMEDIATION OF ALL PETROLEUM SPILLS AND LEAKS - CLEANUP AND CONTROL PRACTICES

LOCAL, STATE AND MANUFACTURE'S RECOMMENDED METHODS FOR SPILL CLEANUP WILL BE CLEARLY POSTED AND PROCEDURES MADE AVAILABLE TO SITE PERSONNEL.

MATERIALS AND EQUIPMENT NECESSARY FOR SPILL CLEANUP WILL BE KEPT IN THE MATERIAL STORAGE AREA ON-SITE. TYPICAL EQUIPMENT AND MATERIALS FOR CLEANUP INCLUDE BROOMS, DUSTPANS, MOPS, RAGS, GLOVES, GOGGLES, RESPIRATORS, CAT LITTER, SAND, SAWDUST AND PLASTIC AND METAL TRASH CONTAINERS FOR THIS PURPOSE.

SPILL PREVENTION PRACTICES AND PROCEDURES WILL BE REVIEWED AFTER A SPILL AND ADJUSTED AS NECESSARY TO PREVENT FUTURE SPILLS

ALL SPILLS WILL BE CLEANED UP IMMEDIATELY UPON DISCOVERY. ALL SPILLS WE BE REPORTED AS REQUIRED BY LOCAL, STATE, AND FEDERAL REGULATIONS.

FOR SPILLS THAT IMPACT SURFACE WATER (LEAVE A SHEEN ON SURFACE WATER), THE NATIONAL RESPONSE CENTER (NRC) WILL BE CONTACTED WITHIN 24 HOURS AT 800-424-8802

FOR SPILLS OF UNKNOWN AMOUNT, THE NATIONAL RESPONSE CENTER (NRC) WILL BE CONTACTED WITHIN 24 HOURS AT 800-424-8802

FOR SPILLS LESS THAN 25 GALLONS AND NO SURFACE WATER IMPACTS, THE SPILL WILL BE CLEANED UP AND LOCAL AGENCIES WILL BE CONTACTED AS REQUIRED.

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.

ITEM #26

CONSTRUCTION MEASURES TO REDUCE POLLUTANTS DURING CONSTRUCTION:

1. TEMPORARY SEDIMENT BASINS
2. CONSTRUCTION ENTRANCES
3. SILT FENCING
4. TEMPORARY GRASSING
5. DUST CONTROL

CONSTRUCTION MEASURES TO REDUCE POLLUTANTS AFTER CONSTRUCTION:

1. SKIMMER
2. MULTIPLE SEDIMENT BASINS
3. PERMANENT GRASSING

ITEM #27

POTENTIAL SOURCES OF POLLUTION THAT MAY AFFECT THE QUALITY OF STORM WATER DISCHARGE FROM THE CONSTRUCTION SITE INCLUDE:

A. OFF-SITE VEHICLE TRACKING OF DIRT, SOILS AND SEDIMENT AND THE GENERATION OF DUST
B. PETROLEUM SPILLS AND LEAKS

PRACTICES TO REDUCE THESE POLLUTANTS DURING CONSTRUCTION INCLUDE THE USE OF A CONSTRUCTION EXIT, TEMPORARY AND PERMANENT VEGETATIVE MEASURES THAT WILL BE INSTALLED DURING CONSTRUCTION THAT WILL CONTROL POLLUTANTS IN STORM WATER RUNOFF THAT OCCURS AFTER CONSTRUCTION IS COMPLETE INCLUDE PERMANENT VEGETATION.

PRODUCT SPECIFIC PRACTICES:

PETROLEUM BASED PRODUCTS - CONTAINERS FOR PRODUCTS SUCH AS FUELS, LUBRICANTS AN TARS WILL BE INSPECTED DAILY FOR LEAKS AND SPILLS. THIS INCLUDES ON-SITE VEHICLE AN 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 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 REGULATIONS.

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 MANUFACTURERS SPECIFICATIONS AND RECOMENDATIONS.

CONCRETE TRUCK WASHING - WASHOUT OF THE CONCRETE TRUCK DRUM ONSITE IS PROHIBITED. WASHOUT OF TOOLS, CONCRETE MIXER CHUTES, HOPPERS, AND THE REAR WHEELS OF VEHICLES SHALL BE HANDLED BY EITHER A PRE-FABRICATED CONCRETE WASHOUT BIN OR A BELOW GRADE SUMP 10'x10' WITH 6" OF FREEBOARD. EITHER BMP SHALL BE LINED WITH 10MIL PLASTIC, OVERLAPPING 4", WITH NO HOLES OR TEARS THAT ALLOW LEAKAGE. A WASHOUT SHOULD BE LOCATED 50' AWAY FROM STORM DRAINS, OPEN DITCHES, OR WATER COURSES. BELOW GRADE WASHOUTS SHALL BE LINED ON THE DOWNSTREAM SIDE WITH HAY BALES.

FERTILIZER / HERBICIDES - THESE PRODUCTS WILL BE APPLIED AT RATES THAT DO NOT EXCEED THE MANUFACTURERS 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 CONTAINERS.

HAZARDOUS WASTES - ALL HAZARDOUS WASTE MATERIALS WILL BE DISPOSED OF IN THE MANNER SPECIFIED BY LOCAL STATE, AND/OR FEDERAL REGULATIONS AND 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 FOR EACH SUBSTANCE WITH HAZARDOUS PROPERTIES THAT IS USED ON THE JOB SITE WILL BE OBTAINED AND USED FOR THE PROPER MANAGEMENT OF POTENTIAL WASTES 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 ESPCP 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, PARTICULARLY REGARDING SPILL CONTROL TECHNIQUES.
THE CONTRACTOR WILL IMPLEMENT THE SPILL PREVENTION CONTROL AND COUNTERMEASURES LISTED WITHIN THIS ESPCP AND WILL TRAIN ALL PERSONNEL IN THE PROPER CLEANUP AND HANDLING OF SPILLED MATERIALS. NO SPILLED HAZARDOUS MATERIALS OR HAZARDOUS WASTE WILL BE ALLOWED TO COME IN CONTACT 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 SPILL PREVENTION CONTROL AND COUNTERMEASURES FOR ALL HAZARDOUS MATERIALS AND WASTE ON THE SITE.

SANITARY WASTES - A MINIMUM OF ONE PORTABLE SANITARY 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 SEWER 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 WASTES FROM CONTRIBUTING TO STORM WATER DISCHARGES. THE LOCATION OF SANITARY WASTE UNITS MUST BE IDENTIFIED ON THE EROSION CONTROL PLAN GRADING PHASE SHEET BY THE CONTRACTOR ONCE THE LOCATIONS HAVE BEEN DETERMINED.

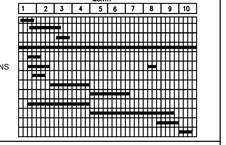
SILT FENCE MUST BE IN PLACE PRIOR TO AND DURING ALL LAND DISTURBING ACTIVITIES UNTIL FINAL STABILIZATION OF THE SITE HAS BEEN ACHEIVED.

THE ENTIRE SITE IS WITHIN THE SAME ULTIMATE DRAINAGE BASIN. THE DRAINAGE BASIN DOES NOT CHANGE WITH THE PROPOSED CONSTRUCTION. THE POST CONSTRUCTION DRAINAGE AREA FOR THE SITE IS 34 ACRES WHICH FLOWS TO CONLEY CREEK.

ITEM #28

Construction Activity Schedule

a. INITIAL EROSION CONTROL BMPS INSTALLATION
b. INTERMEDIATE EROSION CONTROL BMPS
c. FINAL PHASE E&SC BMPS
d. MAINTENANCE OF E&SC PRACTICES
e. DEMOLITION
f. INSTALLATION/REMOVAL OF TEMPORARY SEDIMENT BASINS
g. CLEARING AND GRUBBING
h. GRADING
i. LANDFILL CELL INSTALLATION
j. TEMPORARY GRASSING @ 14 DAY INTERVALS
k. PERMANENT GRASSING @ 30 DAY INTERVALS
l. REMOVAL OF TEMPORARY BMP'S
m. FINAL CLEAN-UP



ITEM #29 INSPECTIONS

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 HOLIDAY 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 WATER(S). 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.

ITEM #30

SAMPLING FREQUENCY AND REPORTING

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 AT LEAST 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 THE NEXT 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.

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 R

STATE OF GEORGIA EROSION, SEDIMENTATION & POLLUTION CONTROL NPDES NOTES

ITEM #34

ALL SAMPLING LOCATIONS, PERENNIAL AND INTERMITTENT, AND OTHER WATER BODIES INTO WHICH STORM WATER DISCHARGED ARE SHOWN ON SHEETS C701-C703

ITEM #35

INITIAL PHASE

1. PRIOR TO THE LAND DISTURBING ACTIVITY, THE CONTRACTOR SHALL SCHEDULE A PRE-CONSTRUCTION MEETING WITH THE AREA SITE DEVELOPMENT INSPECTOR.
2. THE CONTRACTOR SHALL OBSERVE THE PROJECT SEQUENCE SHOWN ON THE PLANS. THE CONTRACTOR SHALL MAINTAIN CAREFUL SCHEDULING AND PERFORMANCE TO INSURE THAT LAND STRIPPED OF ITS NATURAL COVER IS EXPOSED ONLY IN SMALL QUANTITIES.
3. NO STAGING AREAS, MATERIAL STORAGE, CONCRETE WASH OUT AREAS, OR DEBRIS BURN AND BURIAL HOLES SHALL BE LOCATED WITHIN 500 FT. OF DESIGNATED TREE PROTECTION AREAS OR STREAM BUFFERS.
4. THE OWNER AGREES TO PROVIDE AND MAINTAIN OFF-STREET PARKING ON THE SUBJECT PROPERTY DURING THE ENTIRE CONSTRUCTION PERIOD.
5. A COPY OF THE APPROVED LAND DISTURBANCE PLAN AND PERMIT SHALL BE PRESENT ON THE SITE AT ALL TIMES. POST ON DAY ONE.
6. THE ESCAPE OF SEDIMENT FROM THE SITE SHALL BE PREVENTED BY THE INSTALLATION OF EROSION AND SEDIMENT CONTROL MEASURES AND PRACTICES PRIOR TO LAND-DISTURBING ACTIVITIES
7. PRIOR TO COMMENCING LAND DISTURBANCE ACTIVITY, THE LIMITS OF LAND DISTURBANCE SHALL BE CLEARLY AND ACCURATELY DEMARCATED WITH STAKES, RIBBONS, OR OTHER APPROPRIATE MEANS. THE LOCATION AND EXTENT OF ALL AUTHORIZED LAND DISTURBANCE ACTIVITY SHALL BE DEMARCATED FOR THE DURATION OF THE CONSTRUCTION ACTIVITY. NO LAND DISTURBANCE SHALL OCCUR OUTSIDE THE APPROVED LIMITS INDICATED ON THE APPROVED PLANS.
8. PRIOR TO ANY OTHER CONSTRUCTION, A STABILIZED CONSTRUCTION ENTRANCE SHALL BE CONSTRUCTED AT EACH POINT OF ENTRY TO OR EXIT FROM THE SITE OR ONTO ANY PUBLIC ROADWAY AS SHOWN ON PLANS. THE CONSTRUCTION ENTRANCE SHALL BE MINIMUM 20' X 50' AND CONSTRUCTED IN ACCORDANCE WITH THE APPROVED CO DETAIL ON THESE PLANS.
9. IMMEDIATELY AFTER THE ESTABLISHMENT OF CONSTRUCTION ENTRANCE/EXITS, ALL PERIMETER EROSION CONTROL AND STORMWATER MANAGEMENT DEVICES SHALL BE INSTALLED AS SHOWN ON THE CLEARING PHASE I EROSION & SEDIMENTATION CONTROL/SITE MAP PLAN. INITIAL EROSION CONTROL MEASURES INCLUDE PERIMETER SILT FENCE, BRUSH BARRIERS, TEMPORARY SEDIMENT PONDS AND ANY OTHER MEASURES REQUIRED TO TREAT SEDIMENT COLLECTION AND STORMWATER RUNOFF.
10. TYPE "C" SILT FENCE SHOULD BE INSTALLED AT THE PERIMETER OF THE DISTURBED AREA AS SHOWN ON THE PLAN. SILT SHOULD BE REMOVED WHEN ACCUMULATION REACHES ½ HEIGHT OF THE BARRIER. THE PERIMETER SILT FENCE SHOULD BE INSPECTED DAILY FOR ANY FAILURES. ANY FAILURES OF SAID FENCING SHOULD BE REPAIRED IMMEDIATELY.
11. TREE PROTECTION FENCING AND STREAM BUFFER LIMITS SHOULD BE INSTALLED PRIOR TO THE START OF ANY LAND DISTURBANCE ACTIVITY AND MAINTAINED UNTIL FINAL LANDSCAPE IS INSTALLED. THE TREE PROTECTION FENCING SHOULD BE INSPECTED DAILY. ANY FAILURES OF SAID FENCING SHOULD BE REPAIRED IMMEDIATELY.
12. ONCE THE INITIAL EROSION CONTROL MEASURES ARE IN PLACE THE CONTRACTOR SHALL REQUEST AN INSPECTION BY THE DESIGN PROFESSIONAL WITHIN 7 DAYS OF COMPLETING THE BMP INSTALLATION. NO OTHER CONSTRUCTION ACTIVITIES SHALL OCCUR UNTIL THE PROJECT PROFESSIONAL APPROVES THE INSTALLATION OF SAID EROSION CONTROL MEASURES. IF UNFORESEEN CONDITIONS EXIST IN THE FIELD THAT WARRANT ADDITIONAL EROSION CONTROL MEASURES, THE CONTRACTOR MUST CONSTRUCT ANY ADDITIONAL EROSION CONTROL DEVICES DEEMED NECESSARY BY THE SITE INSPECTION WITH CONSULTATION WITH DESIGN PROFESSIONAL.
13. NO BURN OR BURY PITS SHALL BE PERMITTED ON THE CONSTRUCTION SITE WITHOUT WRITTEN PERMISSION BY THE OWNER AND/OR THE ENGINEER OF RECORD.
14. MULCH OR TEMPORARY GRASSING SHALL BE APPLIED TO ALL EXPOSED AREAS WITHIN 14 DAYS OF LAND DISTURBANCE.
15. ALL DISTURBED AREAS LEFT MULCHED AFTER 30 DAYS SHALL BE STABILIZED WITH TEMPORARY OR PERMANENT GRASSING.
16. CONTRACTOR SHALL INSPECT CONTROL MEASURES AT THE END OF EACH WORKING DAY TO ENSURE MEASURES ARE FUNCTIONING PROPERLY.
17. 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.
18. FAILURE TO INSTALL, OPERATE, OR MAINTAIN ALL EROSION CONTROL MEASURES WILL RESULT IN ALL CONSTRUCTION BEING STOPPED ON THE JOB UNTIL SUCH MEASURES ARE CORRECTED BACK TO THE APPROVED EROSION CONTROL PLANS, I.E., MANDATORY STOP WORK ORDER.

INTERMEDIATE PHASE

1. DURING CONSTRUCTION, THE CONTRACTOR SHALL MAINTAIN CAREFUL SCHEDULING AND PERFORMANCE TO ENSURE THAT LAND STRIPPED OF ITS NATURAL GROUND COVER IS EXPOSED ONLY IN SMALL QUANTITIES AND THEREFORE LIMITED DURATIONS, BEFORE PERMANENT EROSION PROTECTION IS ESTABLISHED.
2. MAINTAIN FULL COORDINATION WITH THE DESIGN PROFESSIONAL, CONTRACTOR AND REGULATORY INSPECTOR AT ALL TIMES REGARDING PROJECT SEQUENCE.
3. SEDIMENT SHALL NOT BE WASHED INTO INLETS. IT SHALL BE REMOVED FROM THE SEDIMENT TRAPS AND DISPOSED OF AND STABILIZED SO THAT IT WILL NOT ENTER THE INLETS AGAIN.
4. ALL SLOPES STEEPER THAN 3:1 AND WITH A HEIGHT OF 10 FT. OR GREATER, AND CUTS AND FILLS WITHIN STREAM BUFFERS, SHALL BE STABILIZED WITH APPROPRIATE EROSION CONTROL MATTING OR BLANKETS.
5. STORM DRAIN OUTLET PROTECTION SHALL BE PLACED AT ALL OUTLET HEADWALLS AS SOON AS THE HEADWALL IS CONSTRUCTED.
6. MULCH OR TEMPORARY VEGETATION SHALL BE APPLIED TO ALL EXPOSED AREAS WITHIN 14 DAYS OF LAND DISTURBANCE.
7. ALL DISTURBED AREAS LEFT MULCHED AFTER 30 DAYS SHALL BE STABILIZED WITH TEMPORARY VEGETATION.
8. THE CONTRACTOR SHALL MAINTAIN THE SD4 TEMPORARY SEDIMENT POND UNTIL PERMANENT GROUND COVER IS ESTABLISHED. SEDIMENT SHALL BE CLEANED OUT OF THE POND WHEN IT REACHES THE 1/3 DEPTH OF BASIN.
9. SEDIMENT AND EROSION CONTROL MEASURES SHOULD BE CHECKED AFTER EACH RAIN EVENT.
10. THE CONSTRUCTION EXIT SHALL BE MAINTAINED IN A CONDITION, WHICH WILL PREVENT TRACK OR FLOW OF MUD ONTO PUBLIC RIGHT-OF-WAY. THIS MAY REQUIRE PERIODIC TOP DRESSING WITH 1-3" OF STONE, AS CONDITIONS DEMAND. ALL MATERIALS SPILLED, DROPPED, WASHED OR TRACKED FROM A VEHICLE ONTO PUBLIC ROADWAY OR INTO STORM DRAIN MUST BE REMOVED IMMEDIATELY. CONTRACTOR SHALL INSPECT CONTROL MEASURES AT THE END OF EACH WORKING DAY TO ENSURE MEASURES ARE FUNCTIONING PROPERLY.
11. 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.
12. FAILURE TO INSTALL, OPERATE OR MAINTAIN ALL EROSION CONTROL MEASURES WILL RESULT IN ALL CONSTRUCTION BEING STOPPED ON THE JOB UNTIL SUCH MEASURES ARE CORRECTED BACK TO THE APPROVED EROSION CONTROL PLANS. NOTE: STOP WORK ORDER MAY BE ISSUED.

FINAL PHASE

1. MAINTAIN FULL COORDINATION WITH THE DESIGN PROFESSIONAL, CONTRACTOR AND REGULATORY INSPECTOR AT ALL TIMES REGARDING PROJECT SEQUENCE.
2. SEDIMENT SHALL NOT BE WASHED INTO INLETS. IT SHALL BE REMOVED FROM THE SEDIMENT TRAPS AND DISPOSED OF AND STABILIZED SO THAT IT WILL NOT ENTER THE INLETS AGAIN.
3. MULCH OR TEMPORARY GRASSING SHALL BE APPLIED TO ALL EXPOSED AREAS WITHIN 14 DAYS OF LAND DISTURBANCE.
4. ALL DISTURBED AREAS LEFT MULCHED AFTER 30 DAYS SHALL BE STABILIZED WITH PERMANENT GRASSING.
5. PERMANENT GRASSING SHOULD BE INSTALLED.
6. THE CONTRACTOR SHALL MAINTAIN ALL SEDIMENT PONDS AND EROSION CONTROL MEASURES UNTIL PERMANENT GROUND COVER IS ESTABLISHED.
7. THE SILT FENCE AND BRUSH BARRIER SHOULD BE REMOVED ONCE THE INSPECTOR HAS APPROVED THE SITE FOR FINAL STABILIZATION.
8. 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.

SEE BMP SYMBOL LEGEND ON 7.6

ITEM #36

THE GRAPHIC SCALE AND NORTH ARROW ARE SHOWN ON SHEETS 7.1-7.3

ITEM #37

EXISTING CONTOUR LINES AND PROPOSED CONTOUR LINES ARE DEPICTED ON SHEETS 5.1, 7.1-7.3

ITEM #38

THIS PROJECT DOES NOT USE ALTERNATIVE BMPS WHOSE PERFORMANCE HAS BEEN DOCUMENTED TO BE EQUIVALENT TO OR SUPERIOR TO CONVENTIONAL BMPS AS CERTIFIED BY A DESIGN PROFESSIONAL (UNLESS DISAPPROVED BY EPD OR THE GEORGIA SOIL AND WATER CONSERVATION COMMISSION).

ITEM #39

THIS PROJECT DOES NOT USE ALTERNATIVE BMPS FOR APPLICATION TO THE EQUIVALENT BMP LIST.

ITEM #40

THE DELINEATION OF THE APPLICABLE 25-FOOT OR 50-FOOT UNDISTURBED BUFFERS ADJACENT TO STATE WATERS AND ANY ADDITIONAL BUFFERS REQUIRED BY THE LOCAL ISSUING AUTHORITY ARE SHOWN ON SHEETS 3-7

ITEM #41

THERE ARE WETLANDS THAT EXIST ON SITE. THERE ARE STATE WATERS WITHIN 200FT OF THE SITE. ALL APPROPRIATE BUFFERS ARE SHOWN ON SHEETS 3-7. THERE IS NO PROPOSED IMPACT TO STATE WATERS FOR THIS PHASE OF THIS PROJECT. THERE IS NO PROPOSED IMPACT TO WETLANDS FOR THIS PHASE OF THIS PROJECT.

ITEM #42

THE DELINEATION AND ACREAGE OF CONTRIBUTING DRAINAGE BASINS ON THE PROJECT SITE ARE SHOWN ON SHEET 7.1

ITEM #43

(HYDROLOGY APPROVED DURING THE MASTERPLAN APPROVAL BY THE STATE OF GEORGIA.)

ITEM #44

(HYDROLOGY APPROVED DURING THE MASTERPLAN APPROVAL BY THE STATE OF GEORGIA.)

ITEM #45

STORM PIPE & WEIR VELOCITIES ARE DOCUMENTED AND OUTLET PROTECTION IS PROPOSED PER THE PLANS. SEE SHEETS 7..2-7.3.

ITEM #46

SOIL SERIES AND THEIR DELINEATIONS SHOWN ON SHEET 7.6

ITEM #47

LIMITS OF DISTURBANCE ARE SHOWN ON SHEETS 7.1-7.3

ITEM #48

THIS PROJECT PROVIDES A MINIMUM OF 67 CUBIC YARDS OF SEDIMENT STORAGE PER ACRE DRAINED USING AN SD3, SILT FENCE, AN EXCAVATED SD2 AND THE EXISTING ADJACENT POND. SEDIMENT STORAGE VOLUME MUST BE IN PLACE PRIOR TO AND DURING ALL LAND DISTURBANCE ACTIVITIES UNTIL FINAL STABILIZATION OF THE SITE HAS BEEN ACHIEVED.

ITEM #49

SHEETS 7.1-7.6 ADDRESS BMP'S FOR ALL PHASES OF CONSTRUCTION. THE PLANS SHOW THE LOCATION OF BEST MANAGEMENT PRACTICES THAT ARE CONSISTENT WITH AND NO LESS STRINGENT THAN THE MANUAL FOR EROSION AND SEDIMENT CONTROL IN GEORGIA. USE UNIFORM CODING SYMBOLS FROM THE MANUAL, CHAPTER 6, WITH LEGEND.

ITEM #50

SEE SHEETS 8-14 FOR EROSION CONTROL DETAILS FOR STRUCTURAL PRACTICES.

ITEM #51

Vegetation Plan:

DISTURBED AREA STABILIZATION METHODS & SAMPLES

- DS1 (MULCHING ONLY) - A TEMPORARY COVER OF PLANT RESIDUES APPLIED TO SOIL SURFACE FOR A PERIOD OF (6) MONTHS OR LESS WHEN SEEDING IS NOT PRACTICAL. ON OR BEFORE THE 14TH DAY (OR Ds2)
- DS2 (TEMPORARY SEEDING) - ESTABLISH A TEMPORARY VEGETATIVE COVER W/FAST GROWING SEEDS APPLIED TO ROUGH GRADED AREAS THAT WILL BE EXPOSED FOR LESS THAN 6 MONTHS. (THEN Ds3)
- DS3 (PERMANENT VEGETATION) - AFTER (30) DAYS ESTABLISH PERMANENT VEGETATIVE COVER SUCH AS TREES, SHRUBS, VINES, GRASSES, SOD OR LEGUMES. (AND/OR Ds4)
- DS4 SOD FOR HIGHLY ERODIBLE OR CRITICALLY ERODED LANDS-ALLOWS IMMEDIATE GROUND COVER REDUCING RUNOFF, EROSION, DUST & SEDIMENT.

ITEM #49 CONTINUED

Vegetation Plan:

APPLICATION OF MULCH — Ds1

DRY STRAW OR HAY APPLIED TO DEPTH OF 2 – 4 INCHES
WOOD CHIPS, BARK, SAWDUST APPLIED TO DEPTH OF 2 – 3 INCHES

PLANTS, PLANTING RATES, & PLANTING DATES FOR TEMPORARY COVER OR COMPANION CROPS

SPECIES	BROADCAST RATES 1/ PLS 2/ PER 1000 SQ. FT.	BROADCAST RATES 1/ PLS 2/ PER ACRE	RESOURCE AREA 3/	PLANTING DATES BY RESOURCE AREAS (SOLID LINES INDICATE OPTIMUM DATES, DOTTED LINES INDICATE PERMISSIBLE BUT MARGINAL DATES) J F M A M J J A S O N D	REMARKS
BARLEY (HORDEUM VULGARE)			M-L P C		84,000 SEED PER POUND, WINTERHARDY, USE ON PRODUCTIVE SOILS.
ALONE	3 lbs. (144 lb.)	3.3 lb.			
IN MIXTURES	1/2 lbs. (24 lbs.)	0.6 lb.			
LESPEDEZA, ANNUAL (LESPEDEZ STRIATA)			M-L P C		300,000 SEED PER POUND, MAY VOLUNTEER FOR SEVERAL YEARS. USE INOCULANT EL
ALONE	40 lbs.	0.9 lb.			
IN MIXTURES	10 lbs	0.2 lb.			
LOVEGRASS, WEEPING (ERAGROSTIS CURVULA)			M-L P C		1,500,000 SEED PER POUND, MAY LAST FOR SEVERAL YEARS, MIX WITH SERICEA LESPEDEZA
ALONE	4 lbs.	0.1 lb.			
IN MIXTURES	2 lbs	0.05 lb.			
MILLET, PROSO/PROSO (PANICUM FASCICULATUM)			M-L P C		137,000 SEED PER POUND, QUICK COVER, WILL PROVIDE TOO MUCH COMPETITION IN MIXTURES IF SEEDED AT HIGH RATES.
ALONE	40 lbs.	0.9 lb.			
IN MIXTURES	10 lbs	0.2 lb.			
MILLET, PEARL (PENNISETUM GLAUCUM)			M-L P C		84,000 SEED PER POUND, QUICK COVER, DOUBLE CROP, WILL REACH 5 FEET IN HEIGHT. NOT RECOMMENDED FOR MIXTURES.
ALONE	50 lbs.	1.1 lb.			
OATS (AVENA SATIVA)			M-L P C		13,000 SEED PER POUND, USE ON PRODUCTIVE SOILS. NOT AS WINTERHARDY AS RYE OR BARLEY.
ALONE	4 bs. (128 lb.)	2.9 lb.			
IN MIXTURES	1 bs. (32 lbs.)	0.7 lb.			
RYE (SECALE CEREALE)			M-L P C		18,000 SEED PER POUND, QUICK COVER, DROUGHT TOLERANT AND WINTERHARDY.
ALONE	3 bs. (168 lb.)	3.9 lb.			
IN MIXTURES	1 bs. (28 lbs.)	0.6 lb.			
RYEGRASS, ANNUAL (LOLIUM TEMULENTUM)			M-L P C		227,000 SEED PER POUND, QUICK COVER, VERY COMPETITIVE AND IS NOT TO BE USED IN MIXTURES.
ALONE	40 lbs.	0.9 lb.			
SUDANGRASS (SORGHUM SUDANESE)			M-L P C		55,000 SEED PER POUND, GOOD ON DROUGHTY SITES. NOT TO BE USED IN MIXTURES.
ALONE	60 lbs.	1.4 lb.			

TEMPORARY GRASSING — Ds2

NOT TO SCALE

PLANTS, PLANTING RATES, & PLANTING DATES FOR PERMANENT COVER

SPECIES	BROADCAST RATES 1/ PLS 2/ PER 1000 SQ. FT.	BROADCAST RATES 1/ PLS 2/ PER ACRE	RESOURCE AREA 3/	PLANTING DATES BY RESOURCE AREAS (SOLID LINES INDICATE OPTIMUM DATES, DOTTED LINES INDICATE PERMISSIBLE BUT MARGINAL DATES) J F M A M J J A S O N D	REMARKS
BAHIA,PENSACOLA (PASPALUM NOTATUM)			P C		168,000 SEED PER POUND. LOW GROWING SOD FORMING GRASS. COMMON SOD WILL SPREAD INTO BERMUDA PASTURES & LAWNS. MIXCOASTAL, COMMON, W/ SARICEA LESPEDEZA OR WEEPING LOVEGRASS.
ALONE OR WITH TEMPORARY COVER	60 lbs.	1.4 lb.			
W/ OTHER PERENNIALS	30 lbs	0.7 lb.			
BAHIA,WILMINGTON (PASPALUM NOTATUM)			M-L P		SAME AS ABOVE.
ALONE OR WITH TEMPORARY COVER	60 lbs.	1.4 lb.			
W/ OTHER PERENNIALS	30 lbs	0.7 lb.			
BERMUDA, COMMON (CYNODON DACTYLON) HULLED SEED			P C		1,797,000 SEED PER POUND. QUICK COVER, LOW GROWING & SOD FORMING. FULL SUN.
WITH TEMPORARY COVER	10 lbs.	0.2 lb.			
WITH OTHER PERENNIALS	6 lbs	0.1 lb.			
BERMUDA, COMMON (CYNODON DACTYLON) UNHULLED SEED			P C		GOOD FOR ATHLETIC FIELDS.
ALONE	10 lbs.	0.2 lb.			PLANT WITH WINTER ANNUALS. PLAT WITH TALL FESCUE.
WITH OTHER PERENNIALS	6 lbs	0.1 lb.			
CENTIPEDE (EREMOCHLOA OPHIUROIDES)			P C		DROUGHT TOLERANT. FULL SUN OR PARTIAL SHADE. EFFECTIVE ADJACENT TO CONCRETE AND IN CONCENTRATED FLOW AREAS. IRRIGATION IS NEEDED UNTIL FULLY ESTABLISHED. DO NOT PLANT NEAR PASTURES. WINTERHARDY AS FAR NORTH AS ATHENS AND ATLANTA.
			C		

GEORGIA
UNIFORM CODING SYSTEM
FOR SOIL EROSION AND SEDIMENT CONTROL PRACTICES
GEORGIA SOIL AND WATER CONSERVATION COMMISSION

STRUCTURAL PRACTICES

CODE	PRACTICE	DETAIL	MAP SYMBOL	DESCRIPTION
Cd	CHECKDAM			A small temporary barrier or dam constructed across a swale, drainage ditch or area of concentrated flow.
Ch	CHANNEL STABILIZATION			Improving, constructing or stabilizing an open channel, existing stream, or ditch.
Co	CONSTRUCTION EXIT			A crushed stone pad located at the construction site exit to provide a place for removing mud from tires thereby protecting public streets.
Cr	CONSTRUCTION ROAD STABILIZATION			A traveleay constructed as part of a construction plan including access roads, subdivision roads, parking areas and other on-site vehicle transportation routes.
Dc	STREAM DIVERSION CHANNEL			A temporary channel constructed to convey flow around a construction site while a permanent structure is being constructed.
Di	DIVERSION			An earth channel or dike located above, below or across a slope to divert runoff. This may be a temporary or permanent structure.
Dn1	TEMPORARY DOWNDRAIN STRUCTURE			A flexible conduit of heavy-duty fabric or other material designed to safely conduct surface runoff down a slope. This is temporary and inexpensive.
Dn2	PERMANENT DOWNDRAIN STRUCTURE			A paved chute, pipe, sectional conduit or similar material designed to safely conduct surface runoff down a slope.
Fr	FILTER RING			A temporary stone barrier constructed at storm drain inlets and pond outlets.
Ga	GABION			Rock filter baskets which are hand-placed into position forming soil stabilizing structures.
Gr	GRADE STABILIZATION STRUCTURE			Permanent structures installed to protect channels or waterways where otherwise the slope would be sufficient for the running water to form gullies.
Lv	LEVEL SPREADER			A structure to convert concentrated flow of water into less erosive sheet flow. This should be constructed only on undisturbed soils.
Rd	ROCK FILTER DAM			A permanent or temporary stone filter dam installed across small streams or drainageways.
Re	RETAINING WALL			A wall installed to stabilize cut and fill slopes where maximum permissible slopes are not obtainable. Each situation will require special design.
Rt	RETRO FITTING			A device or structure placed in front of a permanent stormwater detention pond outlet structure to serve as a temporary sediment filter.
Sd1	SEDIMENT BARRIER			A barrier to prevent sediment from leaving the construction site. It may be sandbags, bales of straw or hay, brush, logs and poles, gravel, or a silt fence.
Sd2	INLET SEDIMENT TRAP			An impounding area created by excavating around a storm drain drop inlet. The excavated area will be filled and stabilized on completion of construction activities.
Sd3	TEMPORARY SEDIMENT BASIN			A basin created by excavation or a dam across a waterway. The surface water runoff is temporarily stored allowing the bulk of the sediment to drop out.
Sd4	TEMPORARY SEDIMENT TRAP			A small temporary pond that drains a disturbed area so that sediment can settle out. The principle feature distinguishing a temporary sediment trap from a temporary sediment basin is the lack of a pipe or riser.
Sk	FLOATING SURFACE SKIMMER			A buoyant device that releases/drains water from the surface of sediment ponds, traps, or basins at a controlled rate of flow.
Spb	SEEP BERM			Linear control device constructed as a diversion perpendicular to the direction of runoff to enhance dissipation and infiltration, while creating multiple sedimentation chambers with the employment of intermediate dikes.

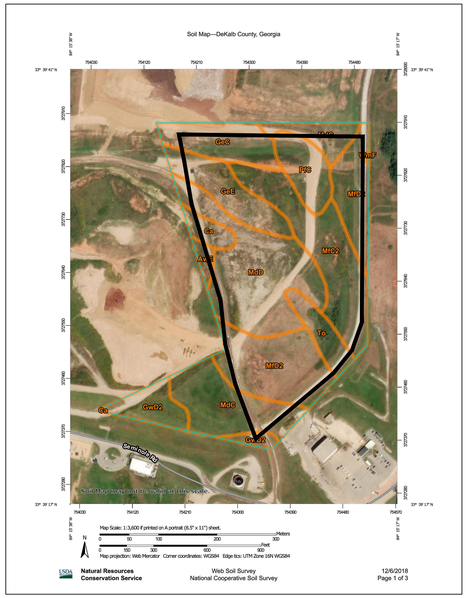
STRUCTURAL PRACTICES

CODE	PRACTICE	DETAIL	MAP SYMBOL	DESCRIPTION
Sr	TEMPORARY STREAM CROSSING			A temporary bridge or culvert-type structure protecting a stream or watercourse from damage by crossing construction equipment.
St	STORMDRAIN OUTLET PROTECTION			A paved or short section of riprap channel at the outlet of a storm drain system preventing erosion from the concentrated runoff.
Su	SURFACE ROUGHENING			A rough soil surface with horizontal depressions on a contour or slopes left in a roughened condition after grading.
Tc	TURBIDITY CURTAIN			A floating or staked barrier installed within the water (it may also be referred to as a floating boom, silt barrier, or silt curtain).
Tp	TOPSOILING			The practice of stripping off the more fertile soil, storing it, then spreading it over the disturbed area after completion of construction activities.
Tr	TREE PROTECTION			To protect desirable trees from injury during construction activity.
Wt	VEGETATED WATERWAY OR STORMWATER CONVEYANCE CHANNEL			Paved or vegetative water outlets for diversions, terraces, berms, dikes or similar structures.

VEGETATIVE PRACTICES

CODE	PRACTICE	DETAIL	MAP SYMBOL	DESCRIPTION
Bf	BUFFER ZONE			Strip of undisturbed original vegetation, enhanced or restored existing vegetation or the reestablishment of vegetation surrounding an area of disturbance or bordering streams.
Cs	COASTAL DUNE STABILIZATION (WITH VEGETATION)		Cs	Planting vegetation on dunes that are denuded, artificially constructed, or re-nourished.
Ds1	DISTURBED AREA STABILIZATION (WITH MULCHING ONLY)		Ds1	Establishing temporary protection for disturbed areas where seedlings may not have a suitable growing season to produce an erosion retarding cover.
Ds2	DISTURBED AREA STABILIZATION (WITH TEMP. SEEDING)		Ds2	Establishing a temporary vegetative cover with fast growing seedings on disturbed areas.
Ds3	DISTURBED AREA STABILIZATION (WITH PERM. SEEDING)		Ds3	Establishing a permanent vegetative cover such as trees, shrubs, vines, grasses, or legumes on disturbed areas.
Ds4	DISTURBED AREA STABILIZATION (SODDING)		Ds4	A permanent vegetative cover using sods on highly erodable or critically eroded lands.
Du	DUST CONTROL ON DISTURBED AREAS		Du	Controlling surface and air movement of dust on construction site, roadways and similar sites.
Fl-Co	FLOCCULANTS AND COAGULANTS		Fl-Co	Substance formulated to assist in the solids/liquid separation of suspended particles in solution.
Sb	STREAMBANK STABILIZATION (USING PERM. VEGETATION)		Sb	The use of readily available native plant materials to maintain and enhance streambanks, or to prevent, or restore and repair small streambank erosion problems.
Ss	SLOPE STABILIZATION		Ss	A protective covering used to prevent erosion and establish temporary or permanent vegetation on steep slopes, shore lines, or channels.
Tac	TACKIFIERS AND BINDERS		Tac	Substance used to anchor straw or hay mulch by causing the organic material to bind together.

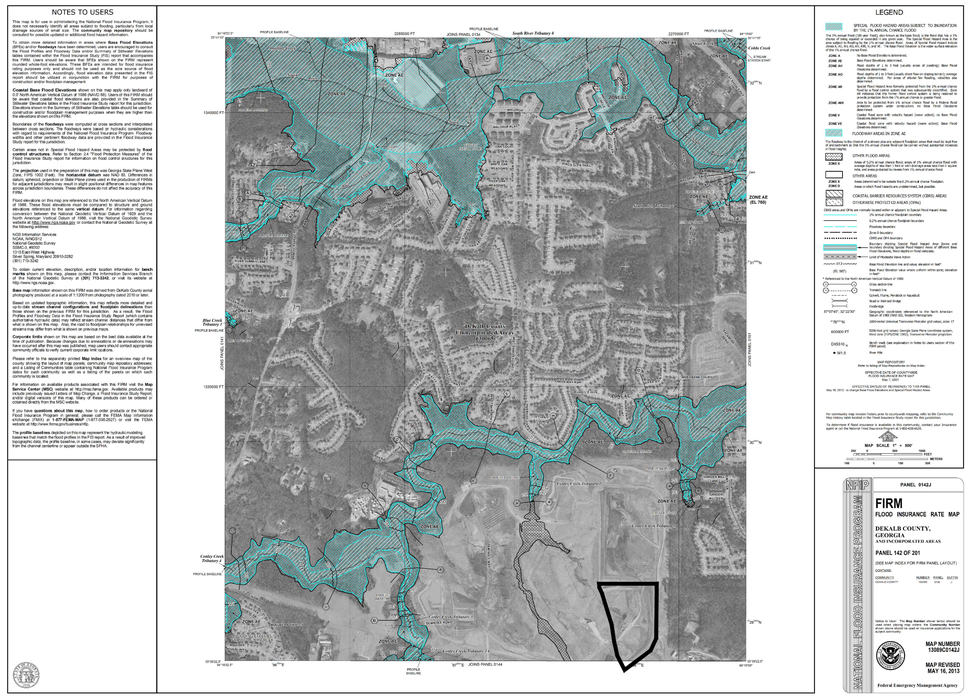
GaSWCC (Amended – 2013)



Soil Map—DeKalb County, Georgia

Map Unit Legend

Map Unit Symbol	Map Unit Name	Acres in AOI	Percent of AOI
AwE	Ashlar-Wedowee complex, 10 to 25 percent slopes	0.4	1.0%
Ca	Cartecay silt loam, frequently flooded	0.9	2.2%
GeC	Gwinnett sandy loam, 6 to 10 percent slopes	2.8	7.2%
GeE	Gwinnett sandy loam, 15 to 30 percent slopes	3.0	7.5%
GwD2	Gwinnett sandy clay loam, 10 to 15 percent slopes, eroded	2.1	5.2%
MsC	Madison sandy loam, 6 to 10 percent slopes	5.7	14.4%
MsD	Madison sandy loam, 10 to 15 percent slopes	7.6	19.3%
MfC2	Madison sandy clay loam, 2 to 10 percent slopes, eroded	5.9	14.9%
MfD2	Madison sandy clay loam, 10 to 15 percent slopes, moderately eroded	7.5	19.1%
PfC	Pacolet sandy loam, 2 to 10 percent slopes	2.1	5.4%
To	Toccoa sandy loam, high	1.5	3.8%
WmF	Wilkes stony sandy loam, 15 to 45 percent slopes	0.0	0.1%
Totals for Area of Interest		**39.5**	**100.0%**



ISSUED FOR BID
DATE: 1/28/2019

REV	DATE	DESCRIPTION	BY

DRAWING TITLE: **EROSION CONTROL NOTES**

PROJECT TITLE: **PHASE 3, UNIT 2, CELLS 1 AND 2 CONSTRUCTION DRAWINGS**

CLIENT: **DEKALB COUNTY SANITATION DIVISION**

SCS ENGINEERS
STEARNS, CONRAD AND SCHMIDT
CONSULTING ENGINEERS
3175 SATELLITE BLVD, BLDG. 600, SUITE 100
DULUTH, GA 30096
678 319-9840 FAX 678 319-9851

PROJ. NO. 09218217.04
DSN. BY: JLS
DWN. BY: JLS /WJR
CHK. BY: WJR
Q/A R/W BY: JMS
APP. BY: JLS

CADD FILE: 1-7-19 DeKalb..

DATE: 1/28/2019

SCALE: AS SHOWN

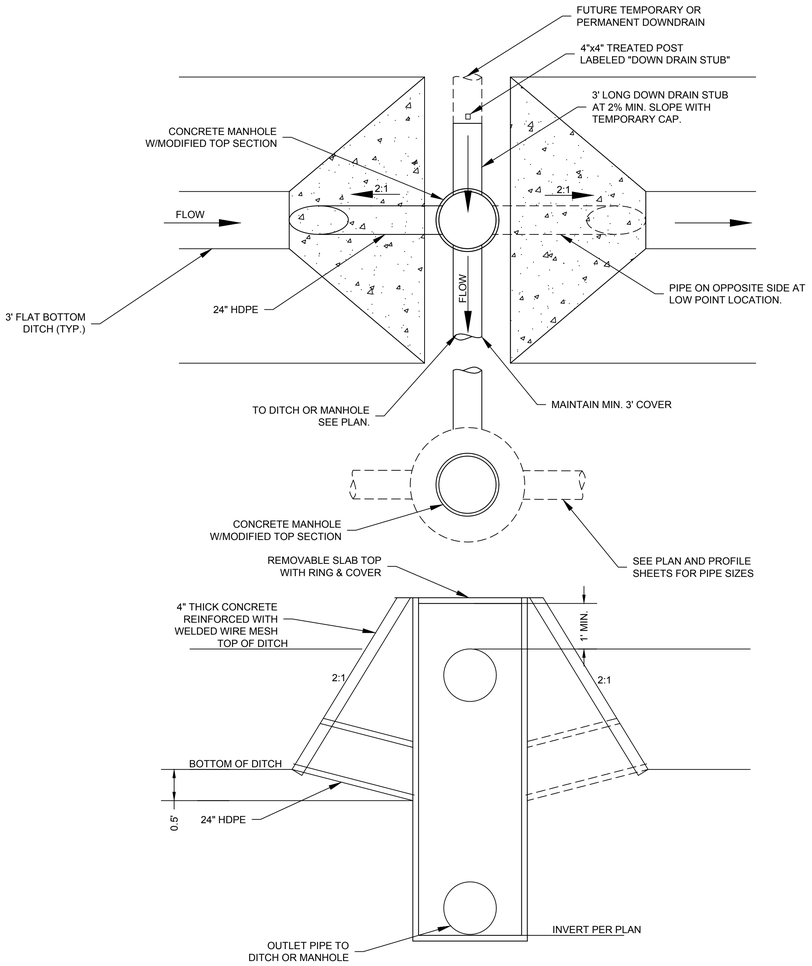
DRAWING NO. **7.8**

GEORGIA REGISTERED PROFESSIONAL ENGINEER No. 36599 JASON STOUGH

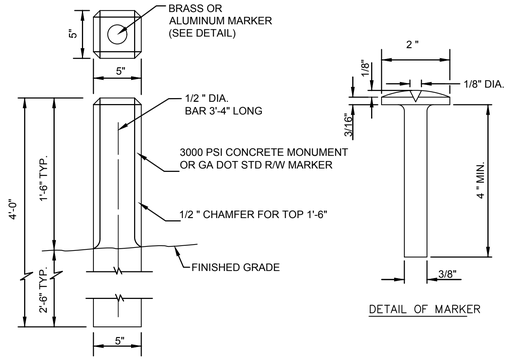
ON SITE CIVIL GROUP
980 BIRMINGHAM RD, SUITE 501-340, MILTON, GA 30004
PH 1: (404) 822-9147, PH 2: (678) 449-6938
WWW.ONSITECIVIL.COM
INFO@ONSITECIVIL.COM

GEORGIA REGISTERED PROFESSIONAL ENGINEER No. 36599 SOWMYA BULUSU

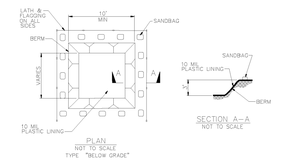
D:\Users\Jason\Favorites\ONSITE Dropbox\Projects\2018\18-042 DeKalb County Landfill Engineering_Contract\CMD\1-07-19 DeKalb Phase 3, Unit 2 (Addendum 2).dwg Mar 11, 2019 — 3:01pm Layout Name: E7.8 By: Jason

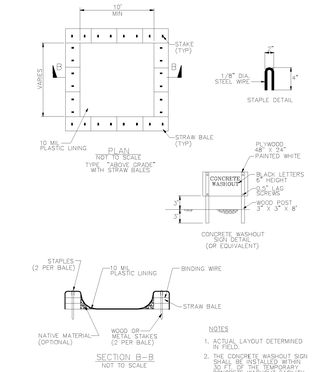


PERIMETER DITCH INLET & BERM
NOT TO SCALE
1 | 5.2 | 8

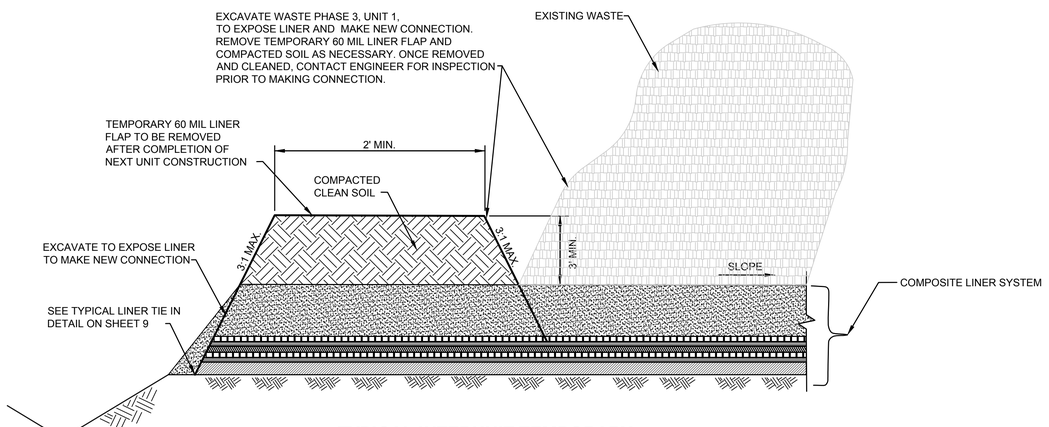


SURVEY CONTROL MARKER
NOT TO SCALE
2 | 6.1 | 8





CONCRETE WASHOUT
NOT TO SCALE
3 | 7.2 | 8



TYPICAL INTERUNIT TEMPORARY BERM & LINER END
NOT TO SCALE
4 | 8
5.1,5.2

ISSUED FOR BID
DATE: 1/28/2019

GEORGIA REGISTERED No. 36599 PROFESSIONAL ENGINEER SOMMYA BULUSU
GEORGIA REGISTERED No. 35748 PROFESSIONAL ENGINEER JASON STOUGH
ON SITE CIVIL GROUP
980 BIRMINGHAM RD, SUITE 501-340, MILTON, GA 30004
PH 1: (404) 822-9147, PH 2: (678) 449-6938
WWW.ONSITECIVIL.COM
INFO@ONSITECIVIL.COM

REV	DATE	DESCRIPTION	BY

DRAWING TITLE: **CONSTRUCTION DETAILS**
PROJECT TITLE: **PHASE 3, UNIT 2, CELLS 1 AND 2 CONSTRUCTION DRAWINGS**

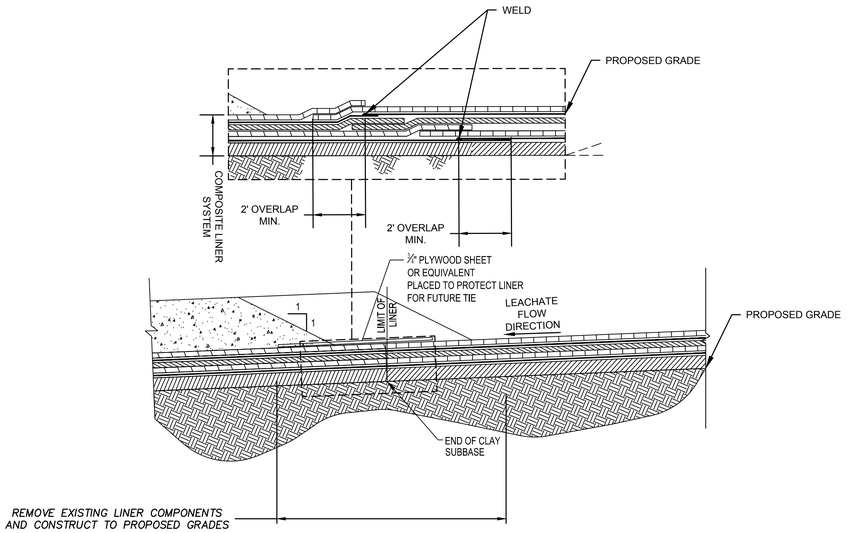
CLIENT: **DEKALB COUNTY SANITATION DIVISION**

SCS ENGINEERS
STEARNS, CONRAD AND SCHMIDT
CONSULTING ENGINEERS
375 SATELLITE BLVD. BLDG. 600, SUITE 100
DULUTH, GA 30096
678 319-9849 FAX 678 319-9851

PROJ. NO. 09218217.04
DSN. BY: JLS
DWN. BY: JLS /WJR
CHK. BY: WJR
Q/A RVW BY: JMS
APP. BY: JLS

CADD FILE: 1-7-19 DeKalb..
DATE: 1/28/2019
SCALE: AS SHOWN
DRAWING NO. **8**

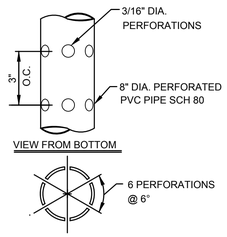
D:\Users\Jason\Favorites\ONSITE Dropbox\Projects\2018\18-042 DeKalb County Landfill Engineering Contract\DWG\1-07-19 DeKalb Phase 3, Unit 2 (Addendum 2).dwg Mar 11, 2019 - 3:01pm Layout Name: 08 By: Jason



TYPICAL LINER TIE IN TO EXISTING LINER ALONG PHASE 3, UNIT 1 BOUNDARY 1/9

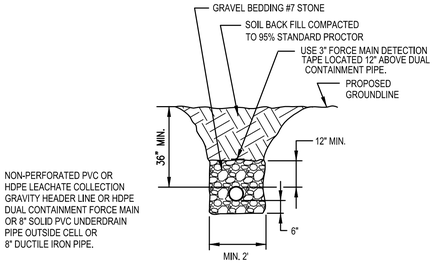
NOT TO SCALE

5.1,5.2



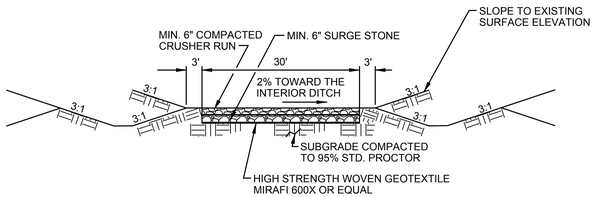
8" COLLECTION PIPE 3/6.1/9

NOT TO SCALE



PIPE TRENCH AND BEDDING 5/6.1/9

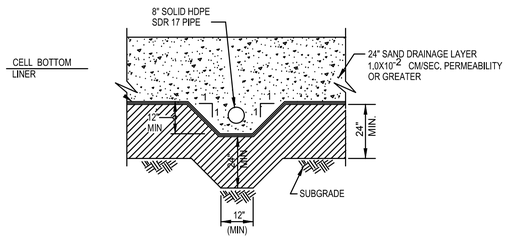
NOT TO SCALE



PERMANENT ALL WEATHER ACCESS ROAD 4/9

NOT TO SCALE

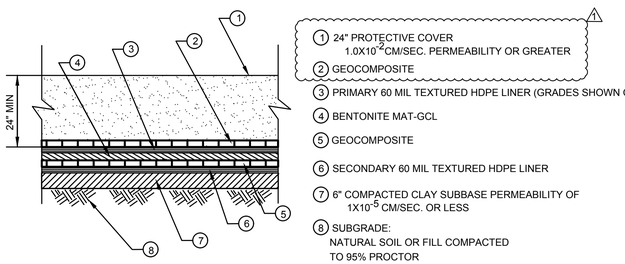
5.1,5.2



CLEAN OUT RISER TRENCH 9/9

NOT TO SCALE

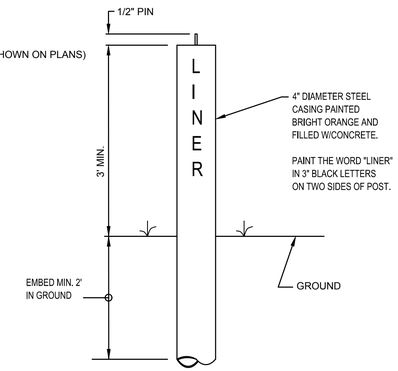
5.1,5.2,6.1



COMPOSITE LINER SYSTEM 6/9

NOT TO SCALE

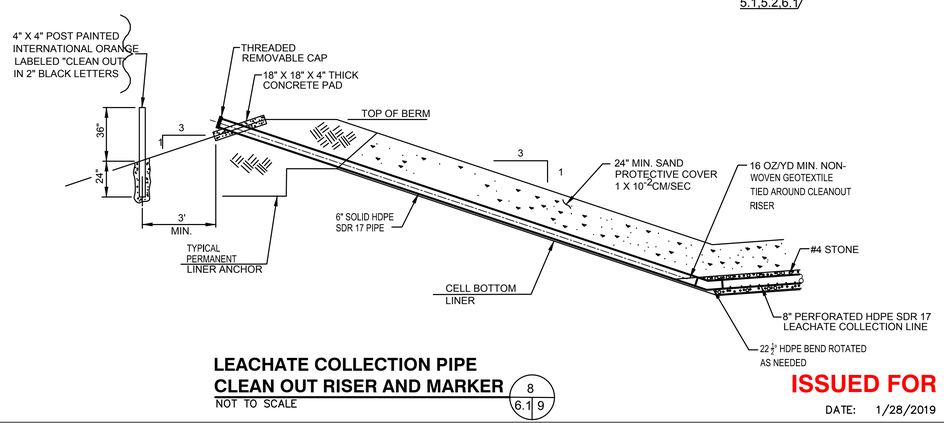
5.1,5.2



EDGE OF LINER MARKER 7/9

NOT TO SCALE

5.1,5.2



LEACHATE COLLECTION PIPE CLEAN OUT RISER AND MARKER 8/6.1/9

NOT TO SCALE

ISSUED FOR BID

DATE: 1/28/2019

GEORGIA REGISTERED No. 36519 PROFESSIONAL ENGINEER JASON STOUGH

ON SITE CIVIL GROUP
980 BIRMINGHAM RD, SUITE 501-340, MILTON, GA 30004
PH 1: (404) 822-9147, PH 2: (678) 449-6938
WWW.ONSITECIVIL.COM
INFO@ONSITECIVIL.COM

GEORGIA REGISTERED No. 36509 PROFESSIONAL ENGINEER SOMMYA BULUSU

REV	DATE	DESCRIPTION	BY
2	3/11/2019	REVISIONS PER ADDENDUM NO. 2	SB

DRAWING TITLE: **CONSTRUCTION DETAILS**

PROJECT TITLE: **PHASE 3, UNIT 2, CELLS 1 AND 2 CONSTRUCTION DRAWINGS**

CLIENT: **DEKALB COUNTY SANITATION DIVISION**

SCS ENGINEERS
STEARNS, CONRAD AND SCHMIDT
CONSULTING ENGINEERS
3175 SATELLITE BLVD, BLDG. 600, SUITE 100
DULUTH, GA 30096
678 319-9849 FAX 678 319-9851

PROJ. NO. 09218217.04 | DSN. BY: JLS | DWN. BY: JLS/MJR | CHK. BY: MJR | Q/A RVW. BY: JMS | APP. BY: JLS

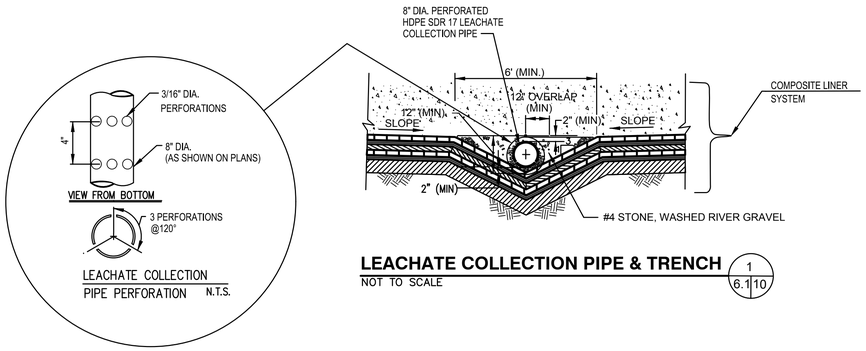
CADD FILE: 1–7–19 DeKalb..

DATE: 1/28/2019

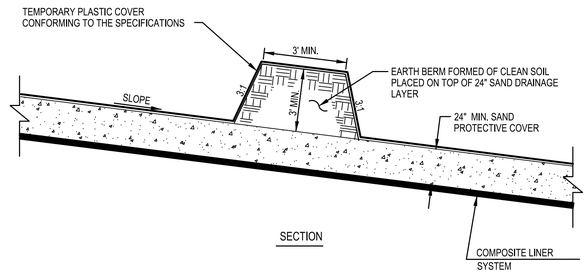
SCALE: AS SHOWN

DRAWING NO. **9**

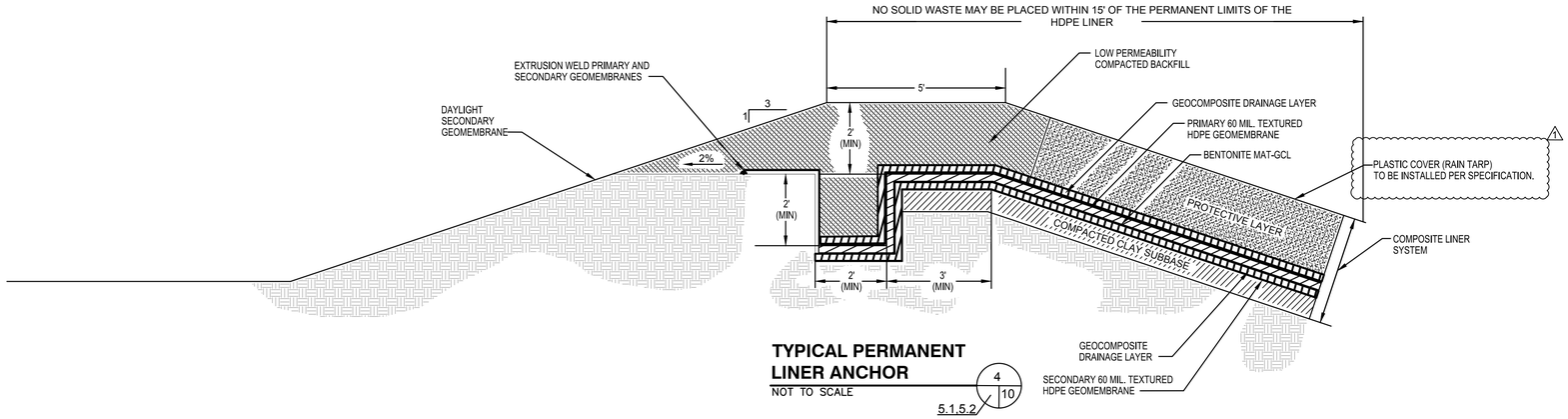
D:\Users\Jason\Favorites\ONSITE Dropbox\Projects\2018\18-042 DeKalb County Landfill Engineering Contract\DWG\3-07-19 Details Phase 3 Unit 2 (Addendum 2).dwg Mar 11, 2019 - 3:16pm Layout: Home_09 By: Jason



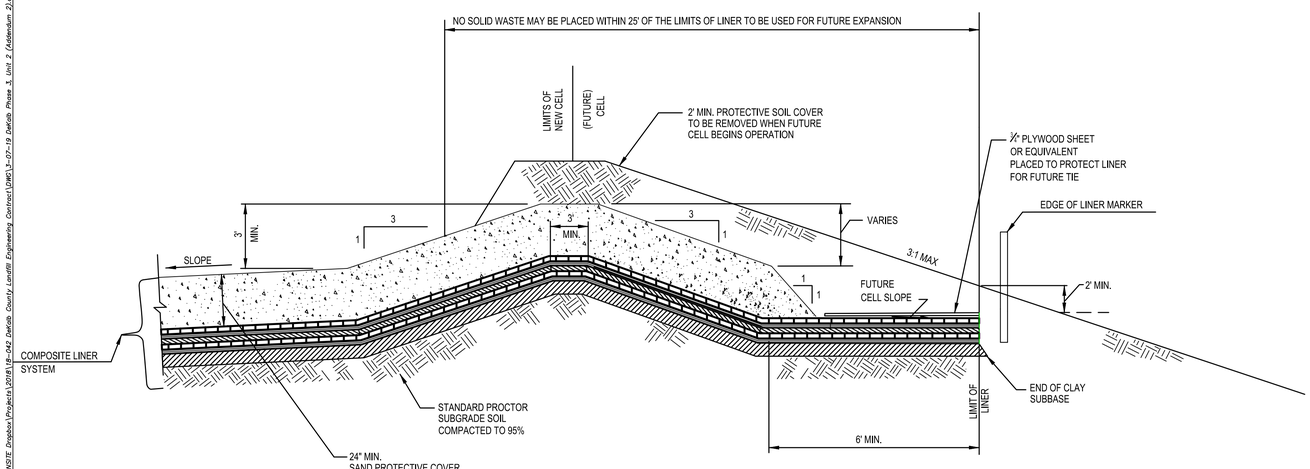
LEACHATE COLLECTION PIPE & TRENCH (1 / 6.1 | 10)
NOT TO SCALE



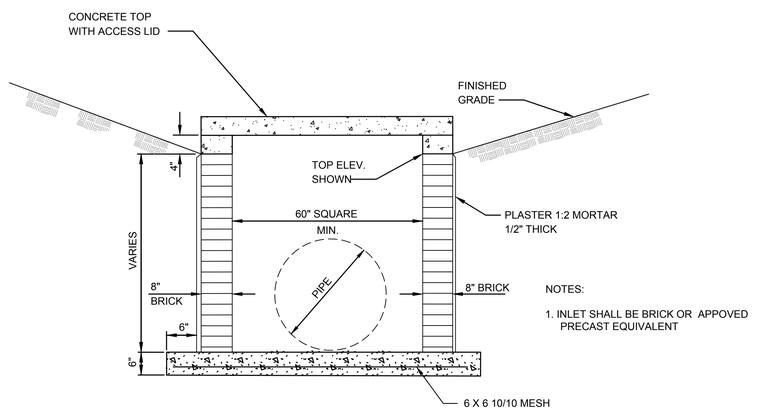
TEMPORARY EARTHEN STORMWATER BERM (2 / 6.1 | 10)
NOT TO SCALE



TYPICAL PERMANENT LINER ANCHOR (4 / 5.1.5.2 | 10)
NOT TO SCALE



TYPICAL LINER ANCHOR FOR FUTURE TIE BELOW INTERCELL BERM (5 / 5.1 | 10)
NOT TO SCALE



DROP INLET (6 / 5.1 | 10)
NOT TO SCALE

ISSUED FOR BID
DATE: 1/28/2019

GEORGIA REGISTERED No. 36509 PROFESSIONAL ENGINEER JASON STOUGH

GEORGIA REGISTERED No. 36509 PROFESSIONAL ENGINEER SOMMYA BULUSU

ON SITE CIVIL GROUP
980 BIRMINGHAM RD, SUITE 501-340, MILTON, GA 30004
PH 1: (404) 822-9147, PH 2: (678) 449-6938
WWW.ONSITECIVIL.COM
INFO@ONSITECIVIL.COM

REV	DATE	DESCRIPTION	BY
2	3/11/2019	REVISIONS PER ADDENDUM NO. 2	SB

DRAWING TITLE: CONSTRUCTION DETAILS

PROJECT TITLE: PHASE 3, UNIT 2, CELLS 1 AND 2 CONSTRUCTION DRAWINGS

CLIENT: DEKALB COUNTY SANITATION DIVISION

SCS ENGINEERS
STEARNS, CONRAD AND SCHMIDT CONSULTING ENGINEERS
317 SATELLITE BLVD. BLDG. 600, SUITE 100
DULUTH, GA 30096
678 319-9849 FAX 678 319-9851

PROJ. NO. 09218217.04 | DSN. BY: JLS | DWN. BY: JLS/WJR | CHK. BY: WJR | Q/A RVW BY: JMS | APP. BY: JLS

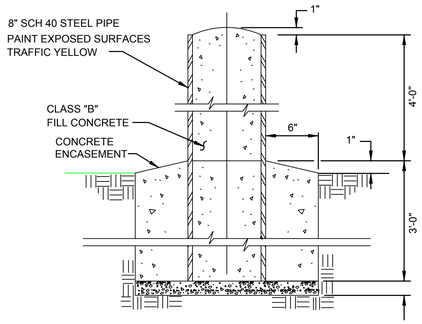
CADD FILE: 1-7-19 DeKalb..

DATE: 1/28/2019

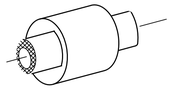
SCALE: AS SHOWN

DRAWING NO. 10

D:\Users\Jason\Favorites\ONSITE Dropbox\Projects\2018\18-042 DeKalb County Landfill Engineering Contract\LOWE\3-07-19 DeKalb Phase 3, Unit 2 (Addendum 2).dwg Mar 11, 2019 - 3:01pm Layout Name: D10 By: Jason

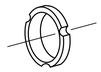


BOLLARD 1
NOT TO SCALE 5.1.11



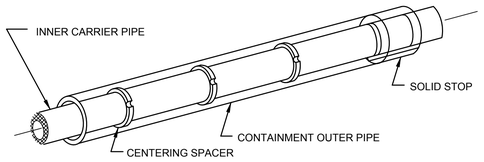
SOLID STOP

A SOLID POLYETHYLENE STOP ISOLATES A SECTION OF DOUBLE CONTAINMENT PIPE TO CONTROL EXPANSION. REQUIRED AT ALL BEND FITTINGS AND CONTAINMENT MANHOLES. MININIMUM 1" WEEP HOLE REQUIRED AT BOTTOM. BETWEEN CARRIER AND CONTAINMENT PIPE.



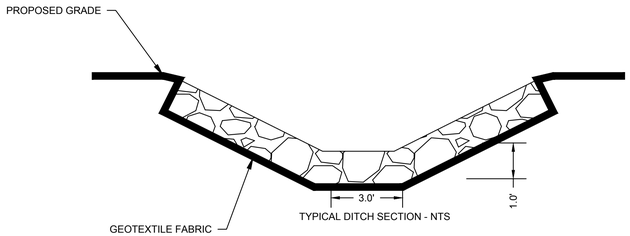
CENTERING SPACER

CENTERING SPACERS KEEP THE CARRIER PIPE STRAIGHT FOR UNIFORM EXPANSION INSIDE THE CONTAINMENT PIPE. SPACING INTERVAL (O.C.) TO BE 1/4" THICK @ 4' INTERVALS. ALL SPACERS TO HAVE A MINIMUM OF 3 - 1" HOLES W/ONE HOLE LINED UP WITH THE INVERT OF PIPE.



HDPE DOUBLE PIPE SECTION
N.T.S.

HDPE DUAL CONTAINMENT FORCE MAIN 2
NOT TO SCALE 6.1.11



TYPICAL DITCH SECTION - NTS

NOTES:
1. DITCH BOTTOM WIDTH SHALL BE MINIMUM THREE FEET.
2. THE AVERAGE STONE DIAMETER OF THE RIP RAP D50 SHALL BE 1.0'
3. SIDE SLOPES SHALL BE 3H:1V
4. CONTRACTOR SHALL INSTALL A GEOTEXTILE FABRIC IN THE DITCH PRIOR TO STONE PLACEMENT.
5. SUBGRADE SHALL BE COMPACTED AS SPECIFIED.

RIP-RAP DITCH 3
NOT TO SCALE 7.2.11

PIONEER PUMP
PERFORMANCE THROUGH INNOVATION™

Pioneer Prime
PP66S12L71


Typical Pump Configuration

Performance

Pioneer Prime series - vacuum assisted, end suction centrifugal pump

Bare shaft, frame mounted, fully automatic dry priming, vacuum assisted, run dry, heavy duty solids handling pump

Size	6" x 6" 150 x 150 mm
Flow, Max	3,400 USgpm 780 m³/h 215 l/s
Head, Max	200 feet 60 meters
Flow at BEP	2,200 USgpm 510 m³/h 140 l/s
Efficiency at BEP	81%
Solids Handling, Max	3.0" 76 mm
Operating Speed, Max	2200 rpm
Suction Connection	6" (150 mm) 150 ANSI Flanges
Delivery Connection	6" (150 mm) 150 ANSI Flanges
Bearing Lubrication	Oil STD Grease optional
Fasteners	Imperial

Applications

Construction	Waste Water
Industrial	Power Generation
Mining	Environmental

Pos/Valve™ Patent #6,783,730

High flow, solids handling heavy duty pump

The PP66S12 is a high flow, ruggedized pump designed to operate over a broad range of performance while delivering outstanding suction lift. The rugged construction and modular design provide proven reliability and flexibility in the most demanding applications.

UltraPrime™ Priming System

Priming System	Mechanically Driven Diaphragm Style Vacuum Pump
Air Removal Capability	50 CFM
Priming Chamber	Single chamber with positive sealing air separation PosiValve™ with stainless steel float ball & linkage.
Discharge Check Valve	Swing Style - ductile iron with Buna-n Disc

Other Specifications

Mechanical Seal	Single seal w/ tungsten carbide vs. silicon carbide seal faces, Viton® elastomers, 300 series stainless steel hardware and spring, designed for indefinite dry running
Pump End Bearing	Single Row Ball
Drive End Bearing	Single Row Ball
Shaft	17-4 PH Stainless Steel

Construction Materials

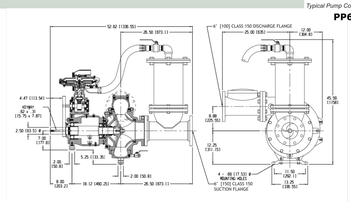
	Standard Construction	CD4MCu Stainless Steel
Impeller	CA6NM SS	CD4MCu
Volute	Ductile Iron ASTM A536 65-45-12	CD4MCu
Wear Ring	ASTM A48 Class 40 Gray Iron	316 SS
Suction Cover	Ductile Iron ASTM A536 65-45-12	CD4MCu
Bracket	Ductile Iron ASTM A536 65-45-12	CD4MCu
Backplate	Ductile Iron ASTM A536 65-45-12	CD4MCu

PP66S12L71_2.16

Mechanical Dimensions

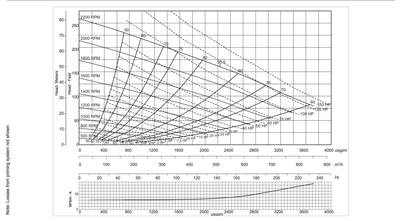

Typical Pump Configuration

PP66S12



Performance Curve

Model: PP66S12	Impeller Dia: 12"	Speed: Variable	Solids Size: 3.0"	Curve #A5856HQ



Corporate +1 (503) 266-4115 ■ EMEA +44 (0)1449 736777 ■ South Africa +27 (0) 118240085 ■ Australia +61 3 9988 1650
www.pioneerpump.com

STORMWATER PUMPS IN CELLS AT BERMS (OR APPROVED EQUAL) 4
NOT TO SCALE 6.1.11

ISSUED FOR BID
DATE: 1/28/2019

GEORGIA REGISTERED No. 36508 PROFESSIONAL ENGINEER JASON STOUGH

ON SITE CIVIL GROUP
980 BIRMINGHAM RD, SUITE 501-340, MILTON, GA 30004
PH 1: (404) 822-9147, PH 2: (678) 449-6938
WWW.ONSITECIVIL.COM
INFO@ONSITECIVIL.COM

GEORGIA REGISTERED No. 36508 PROFESSIONAL ENGINEER SOMMYA BULUSU

REV	DATE	DESCRIPTION	BY
1			
2			
3			
4			
5			
6			

DRAWING TITLE
CONSTRUCTION DETAILS

PROJECT TITLE
PHASE 3, UNIT 2, CELLS 1 AND 2 CONSTRUCTION DRAWINGS

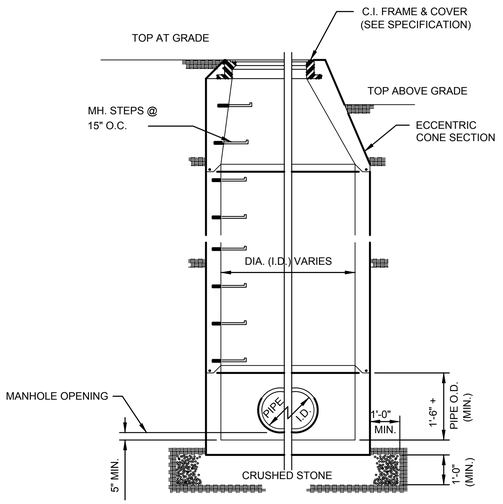
CLIENT
DEKALB COUNTY SANITATION DIVISION

SCS ENGINEERS
STEARNS, CONRAD AND SCHMIDT
CONSULTING ENGINEERS
3715 SATELLITE BLVD, BLDG. 600, SUITE 100
DULUTH, GA 30096
678 319-9849 FAX 678 319-9851

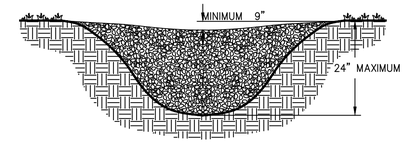
PROJ. NO. 09218217.04
DSN. BY: JLS
DWN. BY: JLS/WJR
CHK. BY: WJR
Q/A RVW. BY: JMS
APP. BY: JLS

CADD FILE: 1-7-19 DeKalb..
DATE: 1/28/2019
SCALE: AS SHOWN
DRAWING NO. **11**

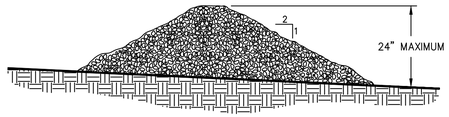
G:\Users\Jason\Favorites\ONSITE Dropbox\Projects\2018\18-042 DeKalb County Landfill Engineering Contract\DWG\3-07-19 Details Phase 3, Unit 2 (Addendum 2).dwg, Mar 11, 2019 - 3:07pm, Layout Name: D11 By: Jason



STORM DRAIN MANHOLE 1 / 5.2 | 12
NOT TO SCALE

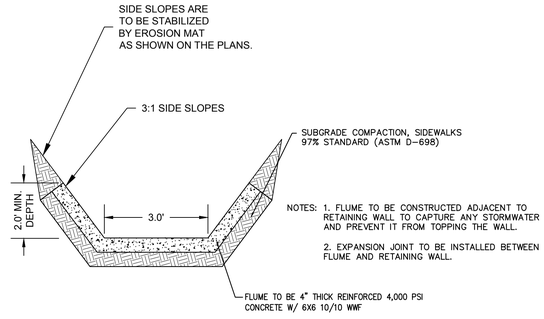


PROFILE VIEW



NOTES:
1. CHECK DAMS ARE TO BE USED ONLY IN SMALL OPEN CHANNELS (THEY ARE NOT TO BE USED IN LIVE STREAMS).
2. THE DRAINAGE AREA FOR STONE CHECK DAMS SHALL NOT EXCEED TWO ACRES.
3. THE CENTER OF THE CHECK DAM MUST BE AT LEAST 9 INCHES LOWER THAN THE OUTER EDGES.
4. THE DAM HEIGHT SHOULD BE A MAXIMUM OF 2 FEET FROM CENTER TO RIM EDGE.
5. THE SIDE SLOPES OF THE CHECK DAM SHALL NOT EXCEED A 2:1 SLOPE.
6. GEOTEXTILE SHALL BE USED TO PREVENT THE MITIGATION OF SUBGRADE SOIL PARTICLES INTO THE STONES (REFER TO AASHTO M288-96, SECTION 7.3, TABLE 3).

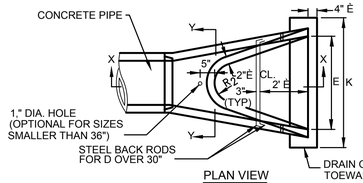
Cd **STONE CHECK DAM** 2 / 7.1 | 12
NOT TO SCALE



3' WIDE CONCRETE DITCH 3 / 7.2 | 12
NOT TO SCALE

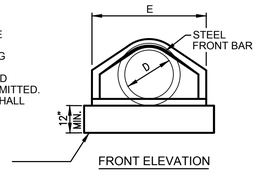
DIMENSIONS AND REINFORCING FOR CONCRETE FLARED END SECTIONS (±1"TOLERANCE)												OUTLET TOEWALL (IF REQUIRED)	
PIPE DIA.	FRONT BAR	BACK RODS	SLOPE	A	B	C	L	E	P	R_1	R_2	K= E ± 2'	CU YDS. CONC.
12"	1-#3x5'-4"	NOT REQ'D	2, 2:1	4"	2'-0"	4'-1"	6'-1"	2'-0"	1'-8"	10"	9"	4'-0"	.148
15"	1-#3x6'-0"	NOT REQ'D	2, 2:1	6"	2'-3"	3'-10"	6'-1"	2'-6"	2'-0"	1'-0"	11"	4'-6"	.167
18"	1-#3x7'-2"	NOT REQ'D	2, 2:1	9"	2'-3"	3'-10"	6'-1"	3'-0"	2'-5"	1'-4"	1'-0"	5'-0"	.185
24"	1-#3x9'-10"	NOT REQ'D	2, 4:1	10"	3'-8"	2'-6"	6'-2"	4'-0"	2'-9"	1'-5"	1'-2"	6'-0"	.222
30"	1-#4x11'-8"	NOT REQ'D	2, 4:1	12"	4'-6"	'-8"	6'-2"	5'-0"	3'-1"	1'-6"	1'-3"	7'-0"	.259
36"	1-#4113'-10"	2-#4x6'-3"	2, 4:1	15"	5'-3"	2'-11"	6'-2"	6'-0"	4'-0"	2'-0"	1'-8"	8'-0"	.296
42"	1-4x13'-10"	2-#4x7'-4"	2, 4:1	21"	5'-3"	2'-11"	8'-2"	6'-6"	4'-6"	2'-4"	1'-10"	8'-6"	.315

NOTE: SPECIFIED REINFORCING IS MINIMAL AND MAY BE INCREASED AT PRODUCERS OPTION TO AID CASTING & HANDLING. ALTERNATE REINFORCEMENT PERMITTED IF APPROVED.



PLAN VIEW

INSTALLATION: (D OVER 30")
CABLE, CHAIN, OR LIFTING PIN WILL EXTEND THRU 1," HOLE WITH A PLATE OR REBAR CONNECTED INSIDE THE CONC. SECTION TO PROVIDE ADEQUATE BEARING AREA OR A LIFTING ASSEMBLY DEVICE MAY BE USED TO GIVE 3 LIFT POINTS. HOOKS CONNECTED DIRECTLY TO CONCRETE ARE NOT PERMITTED. DAMAGE FROM IMPROPER HANDLING SHALL BE CAUSE FOR REJECTION.



FRONT ELEVATION

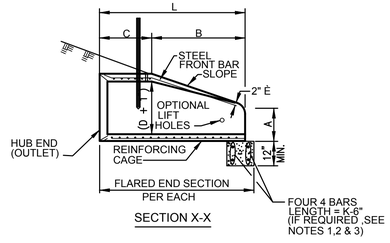
NOTE: DO NOT CUT CONCRETE PIPE. USE FULL LENGTH SECTIONS ONLY WARP SLOPE TO CONFORM WITH PIPE LENGTH AND END SECTION.

REINFORCING CAGE:
1. WIRE FABRIC HAVING SAME STEEL AREA A INNER CAGE FOR CL III PIPE, AASHTO M-170, BUT PLACED IN CENTER OF WALL.
2. ALTERNATE: #3 BARS SPACED 12" È LONGITUDINALLY WITH #3 BARS TRANSVERSLEY AT 6" ON CENTER (O.C.) MAX. SPACING, SPOT WELDED OR TIED TO FORM CAGE. (BACK RODS MAY BE OMITTED)

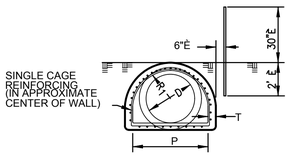
NOTE "A"
CONTRACTOR WILL INFORM SUPPLIER IF CONCRETE FLARED END SECTION IS FOR INLET OR FOR OUTLET END. SOCKET (TONGUE OR SPIGOT)I END IS REQUIRED FOR INLETS. HUB (GROOVE OR BELL) END IS REQUIRED FOR OUTLETS. SOCKET TO SOCKET OR HUB TO HUB JOINT WILL NOT BE ACCEPTED UNLESS A REINFORCED CONCRETE COLLAR IS BUILT AROUND THE JOINT WITH NO PAYMENT BEING MADE FOR THE COLLAR.

WALL THICKNESS (T) IS SHOWN AS MINIMAL AND MAY BE INCREASED AT SUPPLIER'S OPTION FOR DESIRED JOINT DESIGN OR TO ALLOW A FLAT OUTSIDE BOTTOM ON THE FLARE, WITH INSIDE DIMENSIONS OF FLARE RETAINED AS SHOWN.

T = PIPE THICKNESS (0.0833D + 1" È TYPICAL)



SECTION X-X



SECTION Y-Y

CONCRETE FLARED END SECTION
GA. D.O.T. STD. NO. 1120 (FES) 4 / 5.1,5.2 | 12
NOT TO SCALE

ISSUED FOR BID
DATE: 1/28/2019

GEORGIA REGISTERED No. 36509 PROFESSIONAL ENGINEER JASON STOUGH
GEORGIA REGISTERED No. 36509 PROFESSIONAL ENGINEER SOWMYA BULUSU
ON SITE CIVIL GROUP
980 BIRMINGHAM RD, SUITE 501-340, MILTON, GA 30004
PH 1: (404) 822-9147, PH 2: (678) 449-6938
WWW.ONSITECIVIL.COM
INFO@ONSITECIVIL.COM

REV	DATE	DESCRIPTION	BY

DRAWING TITLE: **CONSTRUCTION DETAILS**
PROJECT TITLE: **PHASE 3, UNIT 2, CELLS 1 AND 2 CONSTRUCTION DRAWINGS**

CLIENT: **DEKALB COUNTY SANITATION DIVISION**

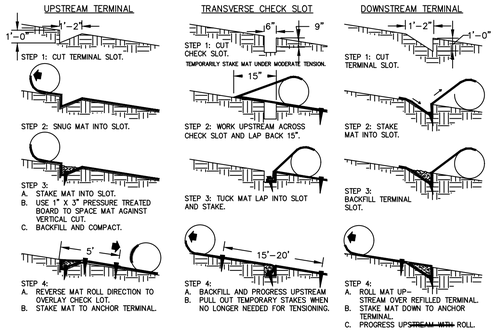
SCS ENGINEERS
STEARNS, CONRAD AND SCHMIDT
CONSULTING ENGINEERS
3175 SATELLITE BLVD, BLDG 600, SUITE 100
DULUTH, GA 30096
678 319-9849 FAX 678 319-9851

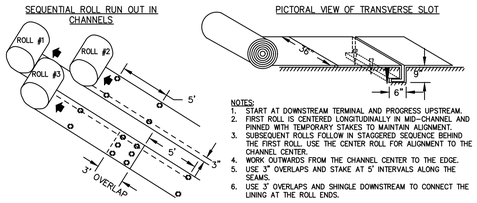
PROJ. NO. 09218217.04 | DWN. BY: JLS/WJR | CHK. BY: WJR | O/A RVW BY: JMS | APP. BY: JLS
ISSUE BY: JLS

CADD FILE: 1-7-19 DeKalb..
DATE: 1/28/2019
SCALE: AS SHOWN
DRAWING NO. **12**

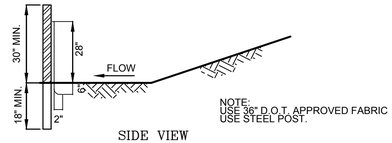
G:\Users\Jason\Favorites\ONSITE Dropbox\Projects\2018\18-042 DeKalb County Landfill Engineering Contract\CAD\3-07-19 DeKalb Phase 3, Unit 2 (Addendum 2).dwg, Mar 11, 2019 - 3:01pm, Layout Name: 012(E) By: Jason

TYPICAL INSTALLATION GUIDELINES FOR ROLLED EROSION CONTROL PRODUCTS (RECP)





Ss **MATTING AND BLANKETS** — NOT TO SCALE — 1 / 7.2 | 13



NOTE:
USE 36" D.O.T. APPROVED FABRIC
USE STEEL POST.

TYPE C FABRIC (36")

USE: WHERE FILL SLOPES EXCEED A VERTICAL HEIGHT OF 20 FEET AND THE SLOPE GRADIENT IS STEEPER THAN 3:1.
NOTE: FILTER FABRIC MAY ALSO BE ATTACHED TO THE POST BY WIRE, CORD, AND POCKETS.

POST SIZE

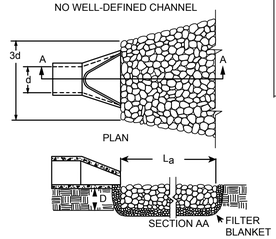
MIN. LENGTH	TYPE OF POST	SIZE OF POST
4'	STEEL	1.3 LB./FT. MIN.

FENCE

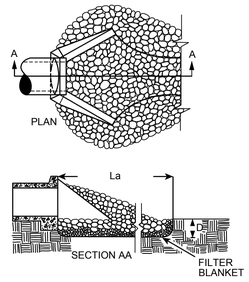
TENSILE STREGTH (LBS. MIN.) (1) (ASTM D-4632)	ELONGATION (%MAX.) (ASTM D-4632)	AOS (APPARENT OPENING SIZE) (MAX. SIEVE SIZE) (ASTM D-4751)	FLOW RATE (GAL/MIN./SQ. FT.) (GDT-87)	ULTRAVIOLET STABILITY (2) (ASTM D-4632 AFTER 300 HOURS WEATHERING IN ACCORDANCE WITH ASTM D-4355)	BURSTING STREGTH (PSI MIN.) (ASTM D-3786 DIAPHRAGM BURSTING STRENGTH TESTER)	(INCHES) MIN. FABRIC WIDTH
WARP-260 FILL-180	40	#30	70	80	175	36

Sd1 **SILT FENCE TYPE-S** — NOT TO SCALE — 2 / 7.1 | 13

PIPE OUTLET TO FLAT AREA-
NO WELL-DEFINED CHANNEL



PIPE OUTLET TO WELL-DEFINED CHANNEL

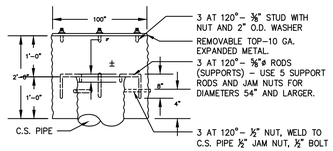


NOTES:

1. L_a IS THE LENGTH OF THE RIPRAP APRON.
2. D = 1.5 TIMES THE MAXIMUM STONE DIAMETER BUT NOT LESS THAN 6".
3. IN A WELL-DEFINED CHANNEL EXTEND THE APRON UP THE CHANNEL BANKS TO AN ELEVATION OF 6" ABOVE THE MAXIMUM TAILWATER DEPTH OR TO THE TOP OF THE BANK, WHICHEVER IS LESS.
4. A FILTER BLANKET OR FILTER FABRIC SHOULD BE INSTALLED BETWEEN THE RIPRAP AND SOIL FOUNDATION.

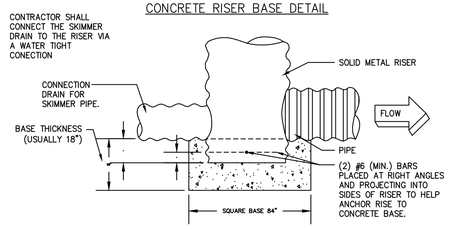
St **STORM DRAIN INLET/OUTLET PROTECTION** — NOT TO SCALE — 3 / 7.2, 7.3 / 13

TYPICAL TRASH RACK

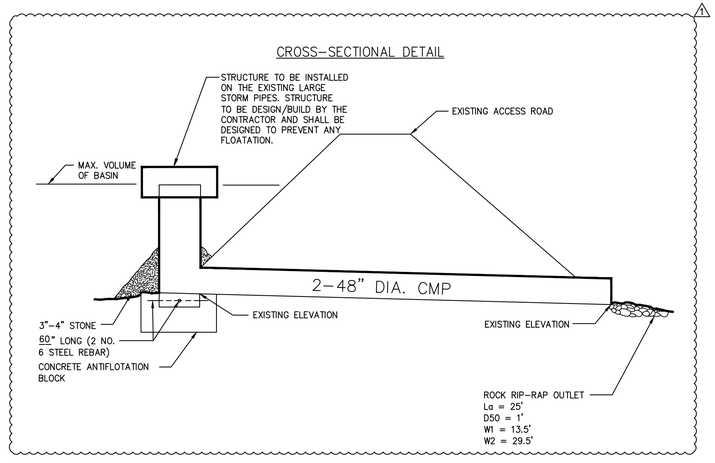


TEMPORARY SEDIMENT BASIN

CONCRETE RISER BASE DETAIL



POND RISER — NOT TO SCALE — 5 / 7.1 | 13



Sd3 **TEMPORARY SEDIMENT BASIN CROSS SECTION** — NOT TO SCALE — 6 / 7.1 | 13

ISSUED FOR BID
DATE: 1/28/2019

GEORGIA REGISTERED No. 36500 PROFESSIONAL ENGINEER JASON STOUGH

ON SITE CIVIL GROUP
980 BIRMINGHAM RD, SUITE 501-340, MILTON, GA 30004
PH 1: (404) 822-9147, PH 2: (678) 449-6938
WWW.ONSITECIVIL.COM
INFO@ONSITECIVIL.COM

GEORGIA REGISTERED No. 36500 PROFESSIONAL ENGINEER SOMMYA BULUSU

REV	DATE	DESCRIPTION	BY
2	3/11/2019	REVISIONS PER ADDENDUM NO. 2	SB

DRAWING TITLE: **CONSTRUCTION DETAILS**

PROJECT TITLE: **PHASE 3, UNIT 2, CELLS 1 AND 2 CONSTRUCTION DRAWINGS**

CLIENT: **DEKALB COUNTY SANITATION DIVISION**

SCS ENGINEERS
STEARNS, CONRAD AND SCHMIDT
CONSULTING ENGINEERS
3175 SATELLITE BLVD, BLDG. 600, SUITE 100
DULUTH, GA 30096
678 319-9849 FAX 678 319-9851

PROJ. NO. 09218217.04 | DWN. BY: JLS/WJR | CHK. BY: WJR | QA RVW BY: JMS | APP. BY: JLS | DSN. BY: JLS

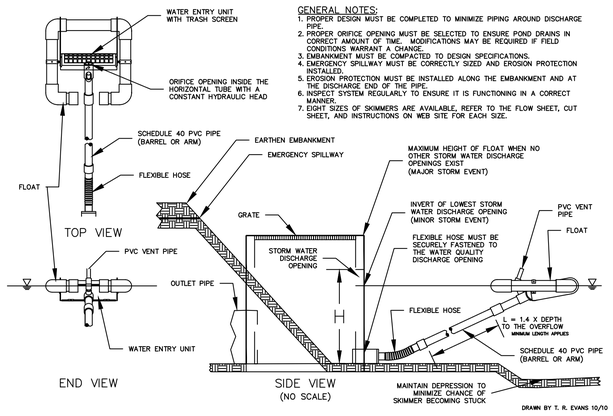
CADD FILE: 1-7-19 DeKalb..

DATE: 1/28/2019

SCALE: AS SHOWN

DRAWING NO. **13**

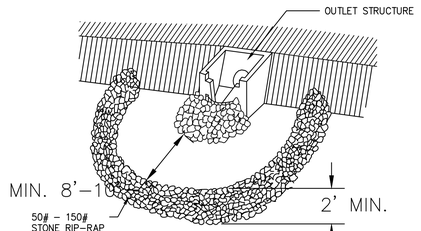
D:\Users\Jason\Favorites\ONSITE Dropbox\Projects\2018\18-042 DeKalb County Landfill Engineering Contract\CAD\3-07-19 DeKalb Phase 3, Unit 2 (Addendum 2).dwg, Mar 11, 2019 - 3:01pm, Layout Name: D1(2) By: Jason



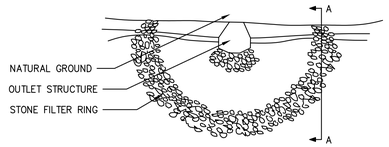
GENERAL NOTES:
1. PROPER DESIGN MUST BE COMPLETED TO MINIMIZE PIPING AROUND DISCHARGE PIPE.
2. PROPER ORIFICE OPENING MUST BE SELECTED TO ENSURE POND DRAINS IN CORRECT AMOUNT OF TIME. MODIFICATIONS MAY BE REQUIRED IF FIELD CONDITIONS WARRANT A CHANGE.
3. EMBANKMENT MUST BE COMPACTED TO DESIGN SPECIFICATIONS.
4. EMERGENCY SPILLWAY MUST BE CORRECTLY SIZED AND EROSION PROTECTION INSTALLED.
5. EROSION PROTECTION MUST BE INSTALLED ALONG THE EMBANKMENT AND AT THE DISCHARGE END OF THE PIPE.
6. INSPECT SYSTEM REGULARLY TO ENSURE IT IS FUNCTIONING IN A CORRECT MANNER.
7. EIGHT SIZES OF SKIMMERS ARE AVAILABLE, REFER TO THE FLOW SHEET, CUT SHEET, AND INSTRUCTIONS ON WEB SITE FOR EACH SIZE.

SKIMMER WITH OUTLET CONTROL STRUCTURE
Sk — NOT TO SCALE — 1 / 7.1|14

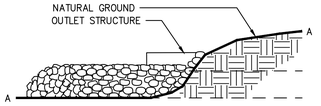
PERSPECTIVE VIEW



PLAN VIEW (NOT TO SCALE)

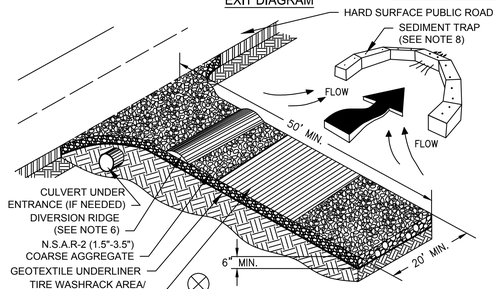


CROSS SECTION (NOT TO SCALE)

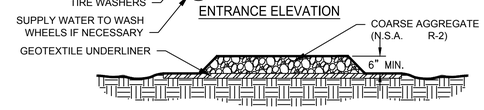


STONE FILTER RING
Fr — NOT TO SCALE — 2 / 7.1|14

EXIT DIAGRAM

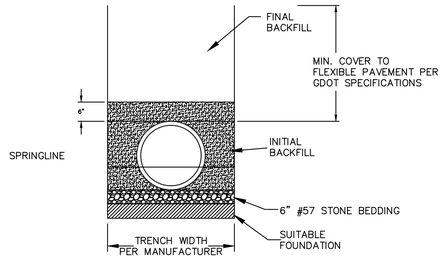


ENTRANCE ELEVATION

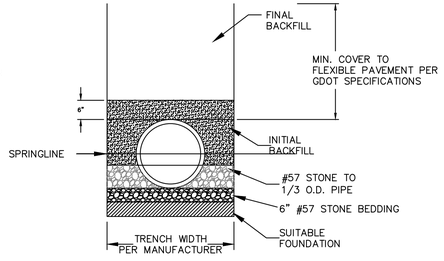


NOTES:
1. AVOID LOCATING ON STEEP SLOPES OR AT CURVES ON PUBLIC ROADS.
2. REMOVE ALL VEGETATION AND OTHER UNSUITABLE MATERIAL FROM THE FOUNDATION AREA, GRADE, AND CROWN FOR POSITIVE DRAINAGE.
3. AGGREGATE SIZE SHALL BE IN ACCORDANCE WITH NATIONAL STONE ASSOCIATION R-2 (1.5"-3.5" STONE).
4. GRAVEL PAD SHALL HAVE A MINIMUM THICKNESS OF 6".
5. PAD WIDTH SHALL BE EQUAL FULL WIDTH AT ALL POINTS OF VEHICULAR EGRESS, BUT NO LESS THAN 20'.
6. A DIVERSION RIDGE SHOULD BE CONSTRUCTED WHEN GRADE TOWARD PAVED AREA IS GREATER THAN 2%.
7. INSTALL PIPE UNDER THE ENTRANCE IF NEEDED TO MAINTAIN DRAINAGE DITCHES.
8. WHEN WASHING IS REQUIRED, IT SHOULD BE DONE ON AN AREA STABILIZED WITH CRUSHED STONE THAT DRAINS INTO AN APPROVED SEDIMENT TRAP OR SEDIMENT BASIN (DIVERT ALL SURFACE RUNOFF AND DRAINAGE FROM THE ENTRANCE TO A SEDIMENT CONTROL DEVICE).
9. WASHRACKS AND/OR TIRE WASHERS MAY BE REQUIRED DEPENDING ON SCALE AND CIRCUMSTANCE. IF NECESSARY, WASHRACK DESIGN MAY CONSIST OF ANY MATERIAL SUITABLE FOR TRUCK TRAFFIC THAT REMOVE MUD AND DIRT.
10. MAINTAIN AREA IN A WAY THAT PREVENTS TRACKING AND/OR FLOW OF MUD ONTO PUBLIC RIGHTS-OF-WAYS. THIS MAY REQUIRE TOP DRESSING, REPAIR AND/OR CLEANOUT OF ANY MEASURES USED TO TRAP SEDIMENT.

CRUSHED STONE CONSTRUCTION EXIT
Co — NOT TO SCALE — 3 / 7.1|14



RCP STORM PIPE BEDDING DETAIL



RCP STORM PIPE BEDDING DETAIL WHERE GROUNDWATER IS PRESENT

NOTE:
BEDDING FOR PIPE SHALL BE PROVIDED IN THREE (3) CLASSES: CLASS A, CLASS B, CLASS C PER THE SPECIFICATIONS.

RCP PIPE BEDDING
NOT TO SCALE — 4 / 5.1|14



Figure 6-21.7 - Alternative Inlet Sediment Trap

GaSWCC (Amended - 2000) 6-145

TEMPORARY SEDIMENT TRAP EXCAVATED
Sd2-E — NOT TO SCALE — 5 / 7.1|14

ISSUED FOR BID
DATE: 1/28/2019

GEORGIA REGISTERED No. 36599 PROFESSIONAL ENGINEER JASON STOUGH
ON SITE CIVIL GROUP
980 BIRMINGHAM RD, SUITE 501-340, MILTON, GA 30004
PH 1: (404) 822-9147, PH 2: (678) 449-6938
WWW.ONSITECIVIL.COM
INFO@ONSITECIVIL.COM
GEORGIA REGISTERED No. 36599 PROFESSIONAL ENGINEER SOWMYA BULUSU

REV	DATE	DESCRIPTION	BY

DRAWING TITLE: CONSTRUCTION DETAILS

PROJECT TITLE: PHASE 3, UNIT 2, CELLS 1 AND 2 CONSTRUCTION DRAWINGS

CLIENT: DEKALB COUNTY SANITATION DIVISION

SCS ENGINEERS
STEARNS, CONRAD AND SCHMIDT
CONSULTING ENGINEERS
3175 SATELLITE BLVD. BLDG. 600, SUITE 100
DULUTH, GA 30096
678 319-9849 FAX 678 319-9851

PROJ. NO. 09218217.04
DSN. BY: JLS
DWN. BY: JLS/NJR
CHK. BY: NJR
O/A RVW BY: JMS
APP. BY: JLS

CADD FILE: 1-7-19 DeKalb..
DATE: 1/28/2019
SCALE: AS SHOWN
DRAWING NO. 14

D:\Users\Jason\Favorites\ONSITE Dropbox\Projects\2018\18-042 DeKalb County Landfill Engineering Contract\DWG\1-07-19 DeKalb Phase 3, Unit 2 (Addendum 2).dwg Mar 11, 2019 - 3:01pm Layout Name: D14(2) By: Jason