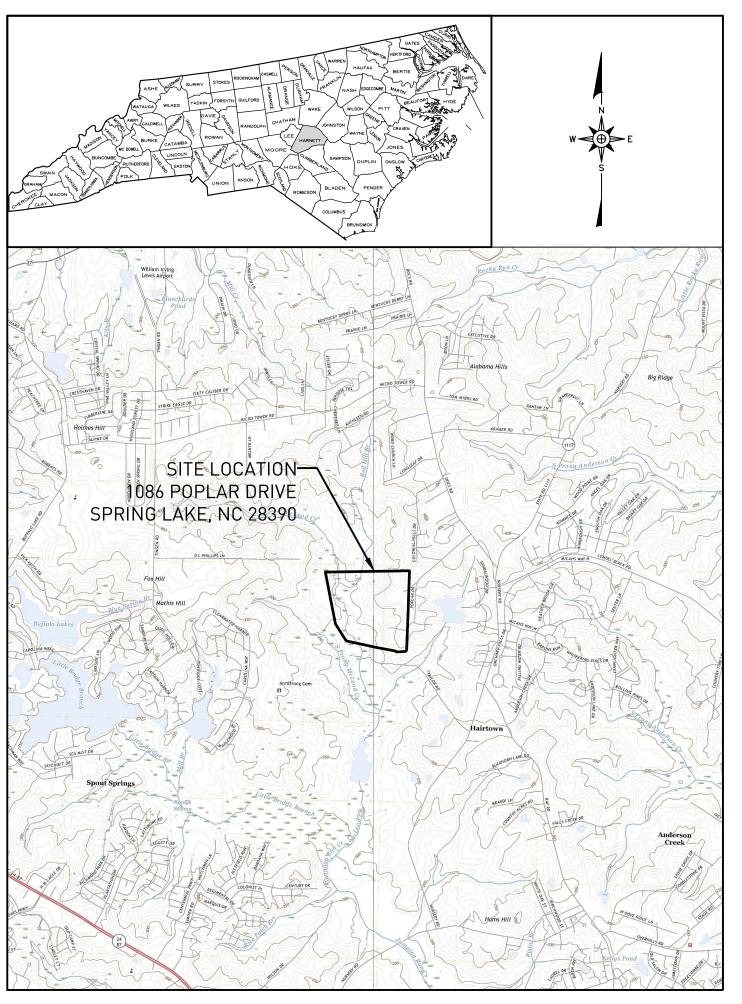
HARNETT COUNTY SOLID WASTE DEPARTMENT LILLINGTON, NORTH CAROLINA

ANDERSON CREEK LANDFILL FACILITY C&D LANDFILL EXPANSION

CONSTRUCTION DRAWINGS

JULY 2025



SITE LOCATION MAP NOT TO SCALE

RIVER BASIN: CAPE FEAR

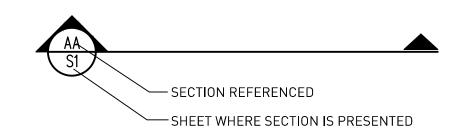
SHEET NO.	DRAWING NO.	DRAWING TITLE	REVISION NO.
1		TITLE - COVER SHEET	
2	S1	EXISTING CONDITIONS	
3	S2	C&DLF EXPANSION SUBGRADE GRADING AND DRAINAGE PLAN	
4	EC1	EROSION AND SEDIMENTATION CONTROL DETAILS (SHEET 1 OF 2)	
5	EC2	EROSION AND SEDIMENTATION CONTROL DETAILS (SHEET 2 OF 2)	
6	NCG01	GROUND STABILIZATION AND MATERIALS HANDLING (NCDEQ)	
7	NCG02	SELF-INSPECTION, RECORDKEEPING, AND REPORTING (NCDEQ)	



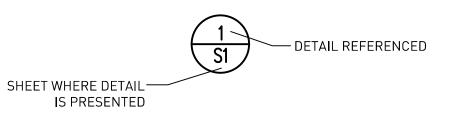
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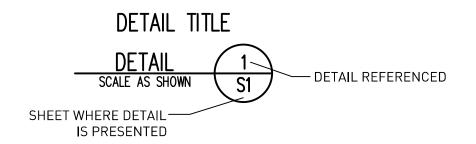
STANDARD SECTION LOCATION CALLOUT (SHEET AND DETAIL)



STANDARD DETAIL CALLOUT



STANDARD DETAIL LABEL AND CALLOUT



STANDARD REVISION CALLOUT (SHEET AND DETAIL)



NC LIC. NO. F-1370 (ENGINEERING) SC COA NO. C01488

SMITH-GARDNER

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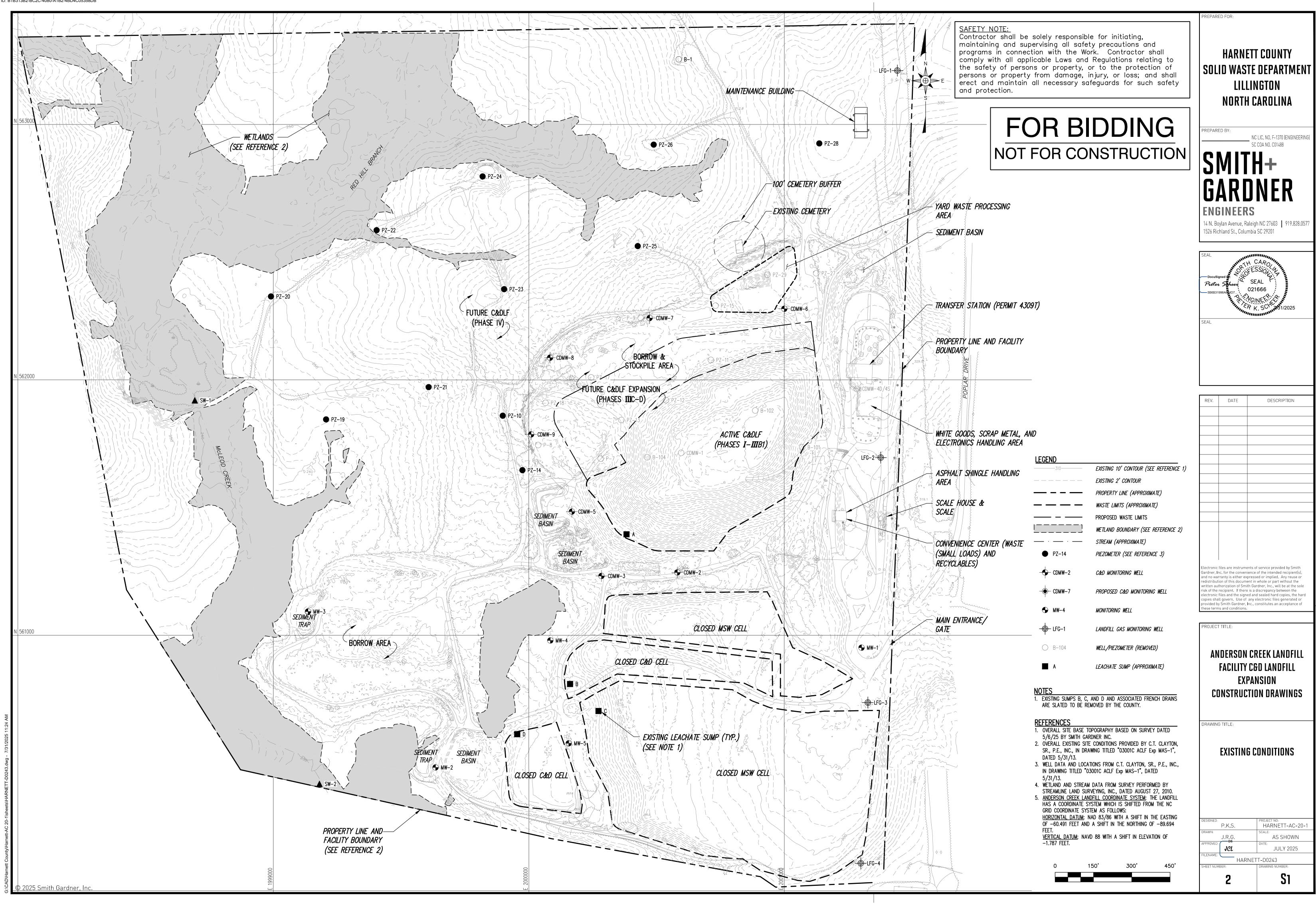
1526 Richalnd St., Columbia SC 29201

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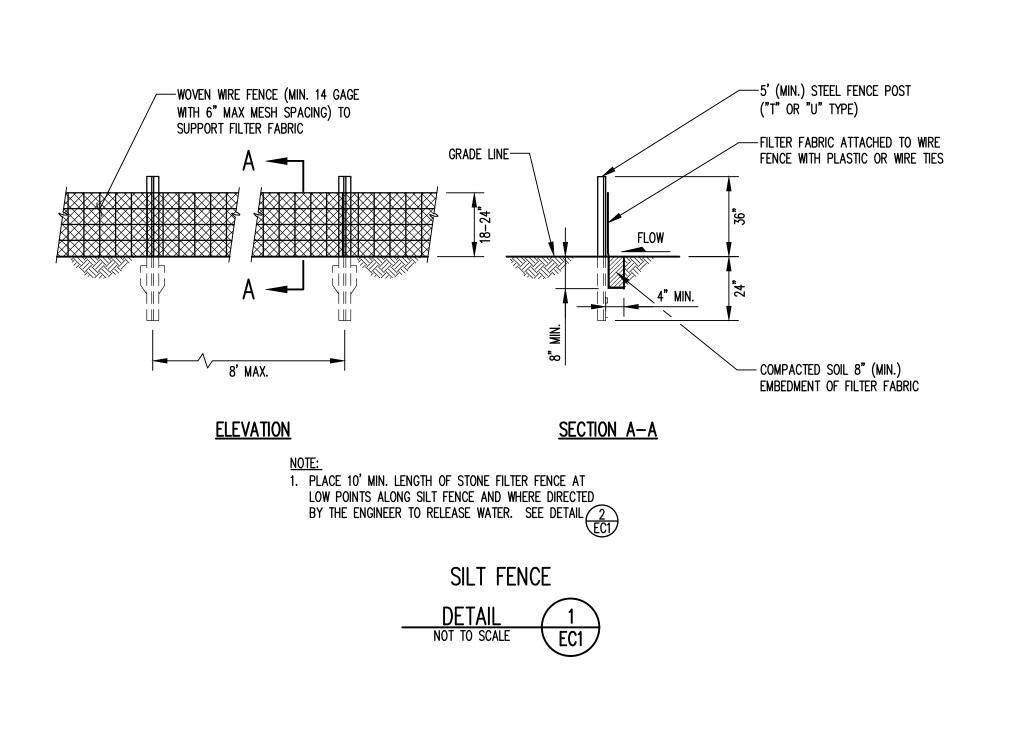
SAFETY NOTE:

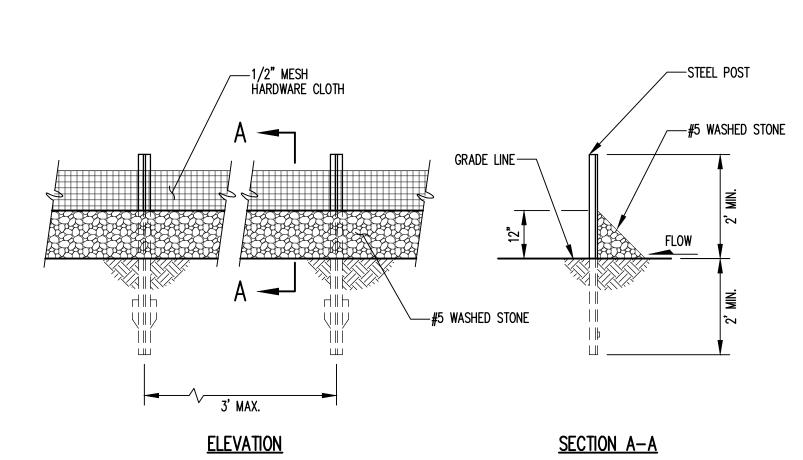
Contractor shall be solely responsible for initiating, maintaining and supervising all safety precautions and programs in connection with the Work. Contractor shall comply with all applicable Laws and Regulations relating to the safety of persons or property, or to the protection of persons or property from damage, injury, or loss; and shall erect and maintain all necessary safeguards for such safety and protection.

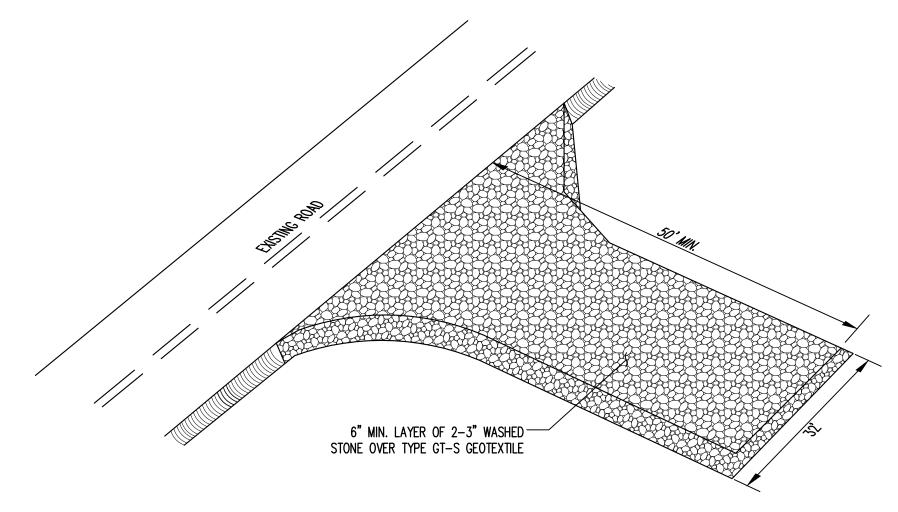
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Docusign Envelope ID: B1B313B2-BC2C-4080-A1B2-4BD4C05358DB CULVERT SCHEDULE LENGTH | SLOPE | INV. IN | INV. OUT NO. NO. OF PIPES SIZE/TYPE REMARKS (FEET) (%) (FEET) (FEET) HARNETT COUNTY 18"ø CPE (TYPE S) W/ FES (2) 50 | 3.0 | 311.5 | 310.0 NOTES: 1. PROVIDE 1 FOOT MIN. COVER OVER ALL CULVERTS UNLESS OTHERWISE APPROVED BY THE ENGINEER. ● PZ-24 SOLID WASTE DEPARTMENT WETLANDS GENERAL EROSION AND SEDIMENTATION CONTROL NOTES LILLINGTON (SEE REFERENCE 2) . ALL EROSION AND SEDIMENTATION CONTROL WORK SHALL BE IN ACCORDANCE WITH THE LATEST EDITION OF THE NORTH 100' CEMETERY CAROLINA EROSION AND SEDIMENT CONTROL PLANNING AND DESIGN MANUAL AS WELL AS APPLICABLE REGULATIONS. **NORTH CAROLINA** BUFFER AN EROSION AND SEDIMENT CONTROL (E&SC) PERMIT AND A CERTIFICATE OF COVERAGE (COC) MUST BE OBTAINED BEFORE ANY LAND DISTURBING ACTIVITIES OCCUR. EROSION AND SEDIMENTATION CONTROL MEASURES SHALL BE ESTABLISHED PRIOR TO, OR AS SOON AS PRACTICAL THEREAFTER, ANY LAND CLEARING OR CONSTRUCTION ACTIVITIES MAY BEGIN. THE CONTRACTOR SHALL FOLLOW THE FOLLOWING EXISTING CEMETERY A. CONTACT NCDEQ DIVISION OF ENERGY, MINERAL, AND LAND RESOURCES, LAND QUALITY SECTION, (FAYETTEVILLE REGIONAL NC LIC. NO. F-1370 (ENGINEERI OFFICE: (910) 433-3300) SC COA NO. C01488 B. FLAG THÈ CLÉARING LIMITS AND IDENTIFY ANY TREE PROTECTION AREAS WITH THE OWNER. C. INSTALL TEMPORARY GRAVEL CONSTRUCTION ENTRANCE/EXIT. D. CLEAR THE VEGETATED PORTION OF THE SITE AND INSTALL SILT AND STONE FILTER FENCING (WHERE REQUIRED) PRIOR T . ONLY STRIP/GRUB AREAS REQUIRED FOR INSTALLATION OF STRUCTURES, BERMS AND DRAINAGE CHANNELS. OTHER AREAS WIL BE STRIPPED/GRUBBED ONCE SEDIMENT BASINS ARE COMPLETED. COMPLETE INSTALLATION OF SEDIMENT BASINS. G. PERFORM EARTHWORK AS REQUIRED FOR CONSTRUCTION. INSTALL DRAINAGE AND EROSION AND SEDIMENTATION CONTROL LIMITS OF DISTURBANCE YARD WASTE PROCESSING MEASURES AS AREAS ARE BROUGHT TO GRADE. H. PERFORM FINE GRADING AND ESTABLISH PERMANENT VEGETATION ON COMPLETED AREAS. **ENGINEERS** AFTER STABILIZATION, REMOVE SILT FENCING AND OTHER TEMPORARY MEASURES AS DIRECTED BY THE OWNER AND INSTALL PERMANENT VEGETATION ON THE DISTURBED AREAS. **⊕** GM−5 14 N. Boylan Avenue, Raleigh NC 27603 📘 919.828.0577 J. UPON THE REMOVAL OF A SEDIMENT BASIN, DEWATER THE BASIN USING A SILT BAG. REFER TO DETAIL 4/EC4. SILT BAGS SHALL BE CONTINUOUSLY MONITORED DURING OPERATION. 1526 Richland St., Columbia SC 29201 4. ALL EROSION AND SEDIMENTATION CONTROL MEASURES SHALL BE CONSTRUCTED ACCORDING TO THE CONTRACT DRAWINGS 6C-12B 3 TEMPORARY GRAVEL 5. SELF-INSPECTIONS FOR EROSION AND SEDIMENTATION CONTROL MEASURES ARE TO BE PERFORMED AT LEAST ONCE EVERY EC1/CONSTRUCTION SEVEN CALENDAR DAYS AND WITHIN 24 HOURS OF EVERY RAIN EVENT OF EQUAL TO OR GREATER THAN 1 INCH. ANY ENTRANCE/EXIT NEEDED REPAIRS SHALL BE MADE IMMEDIATELY TO MAINTAIN MEASURES AS DESIGNED. ALL EROSION AND SEDIMENTATION CONTROL MEASURES SHALL BE MAINTAINED AS SPECIFIED IN THE CONSTRUCTION DETAILS ON THIS PLAN. MAINTENANCE SHALL INCLUDE, BUT NOT BE LIMITED TO: A. THE REMOVAL AND SATISFACTORY DISPOSAL OF TRAPPED OR DEPOSITED SEDIMENTS FROM BASINS, TRAPS, BARRIERS, TRANSFER STATION FILTERS. AND/OR DRAINAGE FEATURES/DEVICES; B. REPLACEMENT OF FILTER FABRICS USED FOR SILT FENCES UPON LOSS OF EFFICIENCY; AND C. REPLACEMENT OF ANY OTHER COMPONENTS WHICH ARE DAMAGED OR CANNOT SERVE THE INTENDED USE. 6. SOIL STABILIZATION SHALL BE ACHIEVED ON ANY AREA OF THE SITE WHERE LAND-DISTURBING ACTIVITIES HAVE TEMPORARILY OR PERMANENTLY CEASED ACCORDING TO THE FOLLOWING SCHEDULE A. ALL PERIMETER DIKES, SWALES, DITCHES, PERIMETER SLOPES, AND ALL SLOPES STEEPER THAN 3 HORIZONTAL TO 1 PHASE IIIC VERTICAL (3H:1V) SHALL BE PROVIDED TEMPORARY OR PERMANENT STABILIZATION WITH GROUND COVER AS SOON AS STOCKPILE AREA PRACTICABLE BUT IN ANY EVENT WITHIN 7 CALENDAR DAYS FROM THE LAST LAND-DISTURBING ACTIVITY. B. ALL OTHER DISTURBED AREAS SHALL BE PROVIDED TEMPORARY OR PERMANENT STABILIZATION WITH GROUND COVER AS SOON AS PRACTICABLE BUT IN ANY EVENT WITHIN 14 CALENDAR DAYS FROM THE LAST LAND-DISTURBING C. BASINS, TRAPS, CHANNELS, AND DIVERSIONS SHALL BE LINED WITH ANCHORED ROLLED EROSION PRODUCTS OR RIP N 562000 RAP AND/OR VEGETATED UPON CONSTRUCTION. D. PERMANENT GROUND COVER FOR ALL DISTURBED AREAS SHALL BE ESTABLISHED WITHIN 15 WORKING DAYS OR 90 CALENDAR DAYS (WHICHEVER IS SHORTER) FOLLOWING COMPLETION OF CONSTRUCTION OR DEVELOPMENT. CDMW-4D/4S $\frac{4}{\text{EC1}}$ FILTER BERM 7. A COPY OF THE APPROVED EROSION AND SEDIMENTATION CONTROL PLAN, THE CERTIFICATE OF APPROVAL, AND LETTER OF PROPERTY LINE AND FACILITY APPROVAL ARE TO BE KEPT ON SITE (BY OWNER). DATE DESCRIPTION THE NPDES PERMIT (WITH A MINIMUM OF 30 DAYS OF SELF-INSPECTION REPORTS) ARE TO BE KEPT ON SITE AND A RAIN BOUNDARY GAUGE IS TO BE INSTALLED AND MAINTAINED FOR RECORD KEEPING UNTIL THE PROJECT IS CLOSED OUT BY THE LAND QUALITY SECTION REGIONAL OFFICE. 9. UPON PROJECT COMPLETION, THE PERMITTEE SHALL CONTACT DEMLR TO CLOSE OUT THE EROSION AND SEDIMENTATION CONTROL PLAN. -WHITE GOODS, SCRAP METAL, AND ⊕ GM-2 ELECTRONICS HANDLING AREA EXISTING 10' CONTOUR (SEE REFERENCE 1) ACTIVE C&DLF EXISTING 2' CONTOUR (PHASE I & IIIB-1) PROPERTY LINE (APPROXIMATE) WASTE LIMITS (APPROXIMATE) PROPOSED WASTE LIMITS LIMITS OF DISTURBANCE CONVENIENCE CENTER WETLAND BOUNDARY ₹(WASTE (SMALL LOADS) FUTURE EXPANSION (SEE REFERENCE 2) (TYP.)(APPROVED) AND RECYCLABLES) STREAM (APPROXIMATE) SEDIMENT PIEZOMETER (SEE REFERENCE 3) CDMW-5 BASIN C&D MONITORING WELL dner, Inc. for the convenience of the intended recipient(s) CDMW-2 NO. 1B MONITORING WELL LFG-1 LANDFILL GAS MONITORING WELL -SCALE AND SCALE HOUSE ided by Smith Gardner, Inc., constitutes an acceptance o (SEE REFERENCE 4) ○ B-104 WELL/PIEZOMETER (REMOVED) SEDIMENT SURFACE WATER MONITORING LOCATION BASIN LEACHATE SUMP (APPROXIMATE) ANDERSON CREEK LANDFILL FRENCH DRAIN (APPROXIMATE) FACILITY C&D LANDFILL CULVERT (FLARED END) EXPANSION $\longrightarrow \longrightarrow \longrightarrow$ DRAINAGE CHANNEL **CONSTRUCTION DRAWINGS** DC-11) BMP LEGEND TEMPORARY GRAVEL <u>REFERENCES</u> CONSTRUCTION ENTRANCE/EXIT . OVERALL SITE BASE TOPOGRAPHY BASED ON SURVEY DATED MAIN ENTRANCE/ 5/6/25 BY SMITH GARDNER INC. (FB) CLOSED MSW CELL FILTER BERM 2. OVERALL EXISTING SITE CONDITIONS PROVIDED BY C.T. CLAYTON, FOR BIDDING SR., P.E., INC., IN DRAWING TITLED "03001C ACLF Exp MAS-1". **C&DLF EXPANSION** DATED 5/31/13. LIMITS OF DISTURBANCE 3. WELL DATA AND LOCATIONS FROM C.T. CLAYTON, SR., P.E., INC., **₩**-4 SUBGRADE GRADING IN DRAWING TITLED "03001C ACLF Exp MAS-1", DATED 5/31/13. NOT FOR CONSTRUCTION **⊕** MW-1 (RR) 4. LANDFILL GAS MONITORING WELL LOCATIONS FROM FIELD SURVEY DATED NOVEMBER 4, 2013 BY STREAMLINE LAND SURVEYING, AND DRAINAGE PLAN RIP RAP (TYP.) (SEE NOTE 1) SB 5. <u>ANDERSON CREEK LANDFILL COORDINATE SYSTEM</u>: THE LANDFILL HAS A COORDINATE SYSTEM WHICH IS SHIFTED FROM THE NC CLOSED C&D CELL SEDIMENT BASIN GRID COORDINATE SYSTEM AS FOLLOWS: **SAFETY NOTE:** (SF) HORIZONTAL DATUM: NAD 83/86 WITH A SHIFT IN THE EASTING Contractor shall be solely responsible for initiating, SILT FENCE OF -60.491 FEET AND A SHIFT IN THE NORTHING OF -89.694 maintaining and supervising all safety precautions and HARNETT-AC-20-P.K.S. programs in connection with the Work. Contractor shall comply with all applicable Laws and Regulations relating to <u>VERTICAL DATUM:</u> NAVD 88 WITH A SHIFT IN ELEVATION OF -1.787 FEET. (SFF) STONE FILTER FENCE AS SHOWN the safety of persons or property, or to the protection of JULY 2025 persons or property from damage, injury, or loss; and shall TEMPORARY SEEDING HARNETT-D0244 CLOSED MSW CELL erect and maintain all necessary safeguards for such safety and protection. PERMANENT SEEDING **S2** 2025 Smith Gardner, Inc.







STONE FILTER FENCE

DETAIL

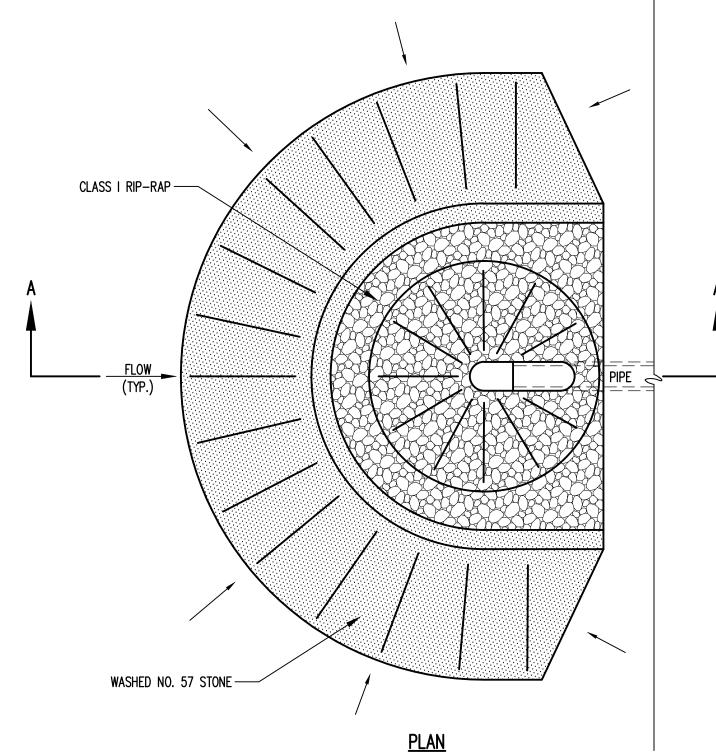
NOT TO SCALE

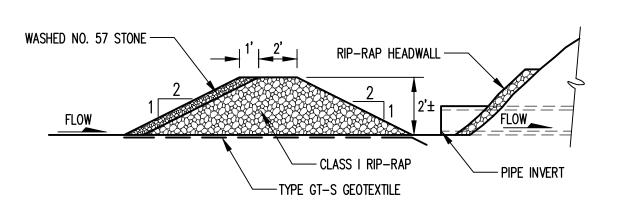
EC1

TEMPORARY GRAVEL CONSTRUCTION ENTRANCE/EXIT

DETAIL

3





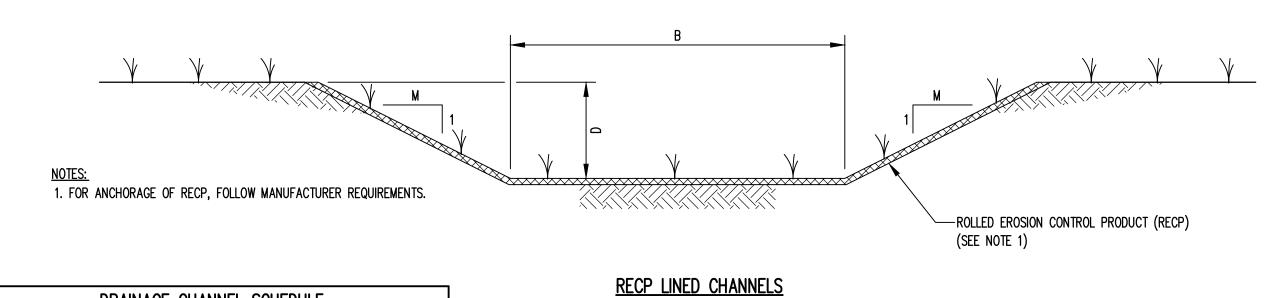
SECTION A-A

FILTER BERM

DETAIL

NOT TO SCALE

EC1



DRAINAGE CHANNEL SCHEDULE				
DRAINAGE CHANNEL	LINING	B (FEET)	D (FEET)	M (FEET)
DC-12A	ECB**	6.0	2.0 (MIN.)	3
DC-12B	TRM*	6.0	2.0 (MIN.)	3
DC-12C	TRM*	6.0	2.0 (MIN.)	3
DC-A	TRM*	3.0	2.0 (MIN.)	3
DC-B	TRM*	3.0	2.0 (MIN.)	3
*TRM = TURF REINFORCEMENT MATTING **ECB = EROSION CONTROL BLANKET				

DRAINAGE CHANNEL

DETAIL

NOT TO SCALE

EC1

FOR BIDDING
NOT FOR CONSTRUCTION

SAFETY NOTE:

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HARNETT COUNTY
SOLID WASTE DEPARTMENT
LILLINGTON
NORTH CAROLINA

NC LIC. NO. F-1370 SC COA NO. C01488

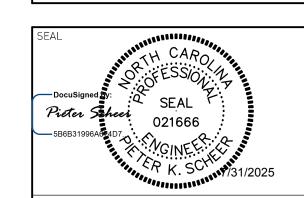
PREPARED BY:

SMITH+ GARDNEF

ENGINEERS

1/ N. Paylon Avanua Palaigh NV

14 N. Boylan Avenue, Raleigh NC 27603 | 919.828.0577 1526 Richland St., Columbia SC 29201



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PROJECT TITL

ANDERSON CREEK LANDFILL FACILITY C&D LANDFILL EXPANSION CONSTRUCTION DRAWINGS

DRAWING TITLE:

EROSION AND SEDIMENTATION
SONTROL DETAILS
(SHEET 1 OF 2)

DESIGNED:
P.K.S.
PROJECT NO:
HARNETT-AC-20-1

DRAWN:
J.R.G.
APPROVED:
JCL
FILENAME:
HARNETT-D0245

4 EC1

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SEEDING SCHEDULE		
MATERIAL	SEED TYPE	APPLICATION RATE (SEE NOTE 1)
LIME	-	4,000 LBS/ACRE
FERTILIZER (10–20–10)	-	1,000 LBS/ACRE
SEED		
PERMANENT	COMMON BERMUDA PENSACOLA BAHIAGRASS KOBE LESPEDEZA SEASONAL NURSE CROP	30 LBS/ACRE (SEE NOTE 3) 50 LBS/ACRE 80 LBS/ACRE (SEE NOTE 4) SEE NOTE 2
TEMPORARY	SEASONAL NURSE CROP	SEE NOTE 2
MULCH	-	4,000-5,000 LBS/ACRE
BINDER	_	400 GALLONS/ACRE

1. APPLICATION RATES AND/OR CHEMICAL ANALYSIS SHALL BE CONFIRMED OR

ESTABLISHED BY A SOIL TEST. 2. USE SEASONAL NURSE CROP IN ACCORDANCE WITH SEEDING DATES AS STATED BELOW: APRIL 15 - AUGUST 15 10 LBS/ACRE GERMAN MILLET OR

AUGUST 16 - APRIL 14

40 LBS/ACRE RYE (GRAIN)

3. HALF HULLED AND HALF UN-HULLED.

4. PLACE KOBE LESPEDEZA ON SLOPES STEEPER THAN OR EQUAL TO 4H:1V.

SPECIFICATIONS:

. <u>GENERAL:</u>

THE CONTRACTOR SHALL ESTABLISH A SMOOTH, HEALTHY, UNIFORM, CLOSE STAND OF GRASS FROM THE SPECIFIED SEED. PRIOR TO REVEGETATION, THE CONTRACTOR SHALL ADEQUATELY TEST THE SOILS TO BE REVEGETATED TO ENSURE THE ADEQUACY OF THE SPECIFIED REQUIREMENTS. ANY MODIFICATIONS TO THESE REQUIREMENTS DEEMED NECESSARY AFTER THE REVIEW OF SOIL TEST RESULTS, SHALL BE AT THE CONTRACTOR'S SOLE EXPENSE. THE ENGINEER WILL PERFORM THE OBSERVATIONS TO DETERMINE WHEN SUCCESSFUL REVEGETATION IS ACHIEVED.

15 LBS/ACRE SUDANGRASS

2. SOIL PREPARATION:

- A. LIMIT PREPARATION TO AREAS WHICH WILL BE PLANTED SOON AFTER PREPARATION.
- B. LOOSEN SURFACE TO MINIMUM DEPTH OF FOUR (4) INCHES.
- C. REMOVE STONES, STICKS, ROOTS, RUBBISH AND OTHER EXTRANEOUS MATTER OVER THREE (3) INCHES IN ANY
- D. SPREAD LIME UNIFORMLY OVER DESIGNATED AREAS AT THE RATE SPECIFIED IN THE SEEDING SCHEDULE.
- AFTER APPLICATION OF LIME, PRIOR TO APPLYING FERTILIZER, LOOSEN AREAS TO BE SEEDED WITH DOUBLE DISC OR OTHER SUITABLE DEVICE IF SOIL HAS BECOME HARD OR COMPACTED. CORRECT ANY SURFACE IRREGULARITIES
- IN ORDER TO PREVENT POCKET OR LOW AREAS WHICH WILL ALLOW WATER TO STAND. F. DISTRIBUTE FERTILIZER UNIFORMLY OVER AREAS TO BE SEEDED AT THE RATE SPECIFIED IN THE SEEDING SCHEDULE.
- (1) USE SUITABLE DISTRIBUTOR. (2) INCORPORATE FERTILIZER INTO SOIL TO DEPTH OF A LEAST TWO (2) INCHES.
- (3) REMOVE STONES OR OTHER SUBSTANCES WHICH WILL INTERFERE WITH TURF DEVELOPMENT OR SUBSEQUENT
- G. GRADE SEEDED AREAS TO SMOOTH, EVEN SURFACE WITH LOOSE, UNIFORMLY FINE TEXTURE. (1) ROLL AND RAKE, REMOVE RIDGES AND FILL DEPRESSIONS, AS REQUIRED TO MEET FINISH GRADES.
- (2) FINE GRADE JUST PRIOR TO PLANTING.

3. <u>SEEDING:</u>

- A. USE APPROVED MECHANICAL POWER DRIVEN DRILLS OR SEEDERS, MECHANICAL HAND SEEDERS, OR OTHER
- APPROVED EQUIPMENT. 3. Distribute seed evenly over entire area at the rate specified in the seeding schedule.
- C. STOP WORK WHEN WORK EXTENDS BEYOND MOST FAVORABLE PLANTING SEASON FOR SPECIES DESIGNATED, OR WHEN SATISFACTORY RESULTS CANNOT BE OBTAINED BECAUSE OF DROUGHT, HIGH WINDS, EXCESSIVE MOISTURE, OR OTHER FACTORS.
- D. RESUME WORK ONLY WHEN FAVORABLE CONDITION DEVELOPS, OR AS DIRECTED BY THE ENGINEER. LIGHTLY RAKE SEED INTO SOIL FOLLOWED BY LIGHT ROLLING OR CULTIPACKING.
- IMMEDIATELY PROTECT SEEDED AREAS AGAINST EROSION BY MULCHING OR PLACING ROLLED EROSION CONTROL PRODUCTS, WHERE APPLICABLE
- (1) SPREAD MULCH IN A CONTINUOUS BLANKET AT THE RATE SPECIFIED IN THE SEEDING SCHEDULE.
- (2) IMMEDIATELY FOLLOWING SPREADING MULCH, SECURE WITH EVENLY DISTRIBUTED BINDER AT THE RATE SPECIFIED IN THE SEEDING SCHEDULE.
- (3) FOR SLOPES NOT STEEPER THAN 3H:1V AND AS AN OPTION TO USING BINDER TO SECURE MULCH, USE A MULCH ANCHORING TOOL OPERATED ALONG THE CONTOUR OF THE SLOPE.

. MAINTENANCE:

THE CONTRACTOR SHALL BE RESPONSIBLE FOR MAINTAINING ALL SEEDED AREAS THROUGH THE END OF HIS WARRANTY PERIOD. THE CONTRACTOR SHALL PROVIDE, AT HIS EXPENSE, PROTECTION OF ALL SEEDED AREAS AGAINST DAMAGE AT ALL TIMES UNTIL ACCEPTANCE OF THE WORK. MAINTENANCE SHALL INCLUDE, BUT NOT BE LIMITED TO, THE FOLLOWING ITEMS:

- A. REGRADE AND REVEGETATE ALL ERODED AREAS UNTIL ADEQUATELY STABILIZED BY GRASS.
- B. REMULCH WITH NEW MULCH IN AREAS WHERE MULCH HAS BEEN DISTURBED BY WIND OR MAINTENANCE OPERATIONS SUFFICIENTLY TO NULLIFY ITS PURPOSE. ANCHOR AS REQUIRED TO PREVENT DISPLACEMENT.

VEGETATIVE STABILIZATION

C. REPLANT BARE AREAS USING SAME MATERIALS SPECIFIED.

MAINTENANCE OF EROSION AND SEDIMENTATION CONTROL FEATURES

ROLLED EROSION CONTROL PRODUCTS

- 1. INSPECT ROLLED EROSION CONTROL PRODUCTS AT LEAST WEEKLY AND AFTER EACH SIGNIFICANT (1.0 INCH OR GREATER) RAIN FALL EVENT REPAIR IMMEDIATELY.
- 2. GOOD CONTACT WITH THE GROUND MUST BE MAINTAINED, AND EROSION MUST NOT OCCUR BENEATH 2. GIVE SPECIAL ATTENTION TO THE OUTLET AND INLET SECTIONS AND OTHER POINTS WHERE
- 3. ANY AREAS OF THE RECP THAT ARE DAMAGED OR NOT IN CLOSE CONTACT WITH THE GROUND SHALL BE REPAIRED AND STAPLED.
- 4. IF EROSION OCCURS DUE TO POORLY CONTROLLED DRAINAGE, THE PROBLEM SHALL BE FIXED AND
- THE ERODED AREA PROTECTED. 5. MONITOR AND REPAIR THE RECP AS NECESSARY UNTIL GROUND COVER IS ESTABLISHED.

- 1. INSPECT SEDIMENT FENCES AT LEAST ONCE A WEEK AND AFTER EACH RAINFALL. MAKE ANY REQUIRED REPAIRS IMMEDIATELY.
- 2. SHOULD THE FABRIC OF A SEDIMENT FENCE COLLAPSE, TEAR, DECOMPOSE, OR BECOME INEFFECTIVE, REPLACE IT PROMPTLY.
- 3. REMOVE SEDIMENT DEPOSITS AS NECESSARY TO PROVIDE ADEQUATE STORAGE VOLUME FOR THE NEXT RAIN AND TO REDUCE PRESSURE ON THE FENCE. TAKE CARE TO AVOID UNDERMINING THE FENCE DURING CLEANOUT.
- 4. REMOVE ALL FENCING MATERIALS AND UNSTABLE SEDIMENT DEPOSITS AND BRING THE AREA TO GRADE AND STABILIZE IT AFTER THE CONTRIBUTING DRAINAGE AREA HAS BEEN PROPERLY STABILIZED.

FILTER BERM (ROCK PIPE INLET PROTECTION)

- 1. INSPECT ROCK PIPE INLET PROTECTION AT LEAST WEEKLY AND AFTER EACH SIGNIFICANT (1.0 INCH OR GREATER) RAINFALL EVENT AND REPAIR IMMEDIATELY. REMOVE SEDIMENT AND RESTORE THE SEDIMENT STORAGE AREA TO ITS ORIGINAL DIMENSIONS WHEN THE SEDIMENT HAS ACCUMULATED TO ONE-HALF THE DESIGN DEPTH OF THE TRAP. PLACE THE SEDIMENT THAT IS REMOVED IN THE DESIGNATED DISPOSAL AREA AND REPLACE THE CONTAMINATED PART OF THE GRAVEL FACING. CHECK THE STRUCTURE FOR DAMAGE. ANY RIPRAP DISPLACED FROM THE STONE HORSESHOE MUST
- BE REPLACED IMMEDIATELY. 2. AFTER ALL THE SEDIMENT-PRODUCING AREAS HAVE BEEN PERMANENTLY STABILIZED, REMOVE THE
- STRUCTURE AND ALL THE UNSTABLE SEDIMENT. SMOOTH THE AREA TO BLEND WITH THE ADJOINING AREAS AND PROVIDE PERMANENT GROUND COVER (SURFACE STABILIZATION).

<u>RIP RAP OUTLET PROTECTION</u>

1. IN GENERAL, ONCE A RIPRAP INSTALLATION HAS BEEN PROPERLY DESIGNED AND INSTALLED IT REQUIRES VERY LITTLE MAINTENANCE. RIPRAP SHOULD BE INSPECTED PERIODICALLY FOR SCOUR OR DISLODGED STONES. CONTROL OF WEED AND BRUSH GROWTH MAY BE NEEDED IN SOME

TEMPORARY CONSTRUCTION ENTRANCE/EXIT

1. MAINTAIN THE GRAVEL PAD IN A CONDITION TO PREVENT MUD OR SEDIMENT FROM LEAVING THE CONSTRUCTION SITE. THIS MAY REQUIRE PERIODIC TOPDRESSING WITH 2-INCH STONE. AFTER EACH RAINFALL, INSPECT ANY STRUCTURE USED TO TRAP SEDIMENT AND CLEAN IT OUT AS NECESSARY. IMMEDIATELY REMOVE ALL OBJECTIONABLE MATERIALS SPILLED, WASHED, OR TRACKED ONTO PUBLIC ROADWAYS.

STONE FILTER FENCE

- 1. INSPECT STONE FILTER FENCE AT LEAST ONCE A WEEK AND AFTER EACH RAINFALL. MAKE ANY
- REQUIRED REPAIRS IMMEDIATELY. 2. SHOULD THE MESH HARDWARE CLOTH, POST, OR STONE OF A STONE FILTER FENCE COLLAPSE,
- TEAR, MOVE, REPLACE IT PROMPTLY. 3. REMOVE SEDIMENT DEPOSITS WHEN HALF OF THE STONE OUTLET IS COVERED TO ENSURE
- DEWATERING DURING THE NEXT RAIN EVENT. TAKE CARE TO AVOID UNDERMINING THE STONE 4. REPLACE STONE AS NEEDED TO ENSURE DEWATERING. THE STONE HEIGHT MUST BE AT LEAST 12 2. REPAIR THE BAFFLES IF THEY ARE DAMAGED. RE-ANCHOR THE BAFFLES IF WATER IS FLOWING
- INCHES HIGH AND THERE MUST BE AT LEAST 12 INCHES OF SEPARATION BETWEEN THE TOP OF THE MESH HARDWARE CLOTH AND THE TOP OF THE STONE. 5. REMOVE ALL STONE FILTER FENCING MATERIALS AND UNSTABLE SEDIMENT DEPOSITS AND BRING

THE AREA TO GRADE AND STABILIZE IT AFTER THE CONTRIBUTING DRAINAGE AREA HAS BEEN

SEDIMENT BASINS

PROPERLY STABILIZED.

- 1. INSPECT SEDIMENT BASINS AT LEAST WEEKLY AND AFTER EACH SIGNIFICANT (1.0 INCH OR GREATER) RAINFALL EVENT AND REPAIR IMMEDIATELY. REMOVE SEDIMENT AND RESTORE THE BASIN TO ITS ORIGINAL DIMENSIONS WHEN SEDIMENT ACCUMULATES TO ONE—HALF THE HEIGHT OF THE FIRST BAFFLE. PULL THE SKIMMER TO ONE SIDE SO THAT THE SEDIMENT UNDERNEATH IT CAN BE EXCAVATED. EXCAVATE THE SEDIMENT FROM THE ENTIRE BASIN, NOT JUST AROUND THE SKIMMER OR FIRST CELL. MAKE SURE VEGETATION GROWING IN THE BOTTOM OF THE BASIN DOES NOT HOLD 6. FREEZING WEATHER CAN RESULT IN ICE FORMING IN THE BASIN. SOME SPECIAL PRECAUTIONS DOWN THE SKIMMER.
- 2. REPAIR THE BAFFLES IF THEY ARE DAMAGED. RE-ANCHOR THE BAFFLES IF WATER IS FLOWING
- UNDERNEATH OR AROUND THEM. 3. IF THE SKIMMER IS CLOGGED WITH TRASH AND THERE IS WATER IN THE BASIN, USUALLY PULLING ON THE ROPE WILL MAKE THE SKIMMER BOB UP AND DOWN AND DISLODGE THE DEBRIS AND RESTORE FLOW. IF THIS DOES NOT WORK, PULL THE SKIMMER TO THE SIDE OF THE BASIN AND REMOVE THE DEBRIS. ALSO CHECK THE ORIFICE INSIDE THE SKIMMER TO SEE IF IT IS CLOGGED; IF SO REMOVE DEBRIS.
- 4. IF THE SKIMMER ARM OR BARREL PIPE IS CLOGGED, THE ORIFICE CAN BE REMOVED AND THE OBSTRUCTION CLEARED WITH A PLUMBER'S SNAKE OR BY FLUSHING WITH WATER. BE SURE TO REPLACE THE ORIFICE BEFORE REPOSITIONING THE SKIMMER.
- 5. CHECK THE EMBANKMENT, SPILLWAYS, AND OUTLET FOR EROSION DAMAGE, AND INSPECT THE EMBANKMENT FOR PIPING AND SETTLEMENT. MAKE ALL NECESSARY REPAIRS IMMEDIATELY. REMOVE ALL TRASH AND OTHER DEBRIS FROM THE SKIMMER AND POOL AREAS.
- 6. FREEZING WEATHER CAN RESULT IN ICE FORMING IN THE BASIN. SOME SPECIAL PRECAUTIONS SHOULD BE TAKEN IN THE WINTER TO PREVENT THE SKIMMER FROM PLUGGING WITH ICE.

CHANNELS, DIVERSION BERMS, SWALES, ETC.

- 1. INSPECT CHANNELS, DIVERSION BERMS, SWALES, ETC. AT REGULAR INTERVALS AS WELL AS AFTER MAJOR RAINS, AND MAKE REPAIRS PROMPTLY. CHECK GRASS AND RECP LINED CHANNELS AFTER EVERY RAINFALL UNTIL THE ESTABLISHMENT OF A GOOD STAND OF VEGETATION.
- CONCENTRATED FLOW ENTERS. CAREFULLY CHECK STABILITY AT ROAD CROSSINGS AND LOOK FOR INDICATIONS OF PIPING, SCOUR HOLES, OR BANK FAILURES.
- 3. MAKE REPAIRS IMMEDIATELY AND REMOVE ALL SIGNIFICANT SEDIMENT ACCUMULATIONS TO MAINTAIN THE DESIGNED CARRYING CAPACITY.
- 4. MAINTAIN ALL VEGETATION IN (AS APPLICABLE) AND ADJACENT TO THE CHANNEL IN A HEALTHY, VIGOROUS CONDITION.

CULVERTS, DOWN PIPES, ETC.

- 1. INSPECT CULVERTS AND DOWN PIPES AFTER EACH RAINFALL UNTIL ALL AREAS ADJOINING THE
- CULVERT OR DOWN PIPE ARE PERMANENTLY STABILIZED. 2. REPAIR ALL DAMAGE NOTED IN INSPECTIONS IMMEDIATELY.
- 3. AFTER THE SLOPES ARE STABILIZED, PERFORM PERIODIC INSPECTION INCLUDING INSPECTION AFTER MAJOR STORM EVENTS.

- 1. CHECK ROCK DAMS AFTER EACH RAINFALL.
- 2. REMOVE SEDIMENT AND RESTORE ORIGINAL VOLUME WHEN SEDIMENT ACCUMULATES TO ABOUT ONE-HALF THE DESIGN VOLUME. SEDIMENT SHOULD BE PLACED ABOVE THE BASIN AND ADEQUATELY STABILIZED.
- 3. CHECK THE STRUCTURE FOR EROSION, PIPING, AND ROCK DISPLACEMENT WEEKLY AND AFTER EACH SIGNIFICANT (1.0 INCH OR GREATER) RAINFALL EVENT AND REPAIR IMMEDIATELY.
- 4. REMOVE THE STRUCTURE AND ANY UNSTABLE SEDIMENT IMMEDIATELY AFTER THE CONSTRUCTION SITE HAS BEEN PERMANENTLY STABILIZED. SMOOTH THE BASIN SITE TO BLEND WITH THE SURROUNDING AREA AND STABILIZE. ALL WATER AND SEDIMENT SHOULD BE REMOVED FROM THE BASIN PRIOR TO DAM REMOVAL. SEDIMENT SHOULD BE PLACED IN DESIGNATED DISPOSAL AREAS AND NOT ALLOWED TO FLOW INTO STREAMS OR DRAINAGE WAYS DURING STRUCTURE REMOVAL

LEVEL SPREADERS

- 1. INSPECT LEVEL SPREADERS AFTER EVERY RAINFALL UNTIL VEGETATION IS ESTABLISHED AND PROMPTLY MAKE NEEDED REPAIRS.
- 2. AFTER THE AREA HAS BEEN STABILIZED, MAKE PERIODIC INSPECTIONS AND KEEP VEGETATION IN A HEALTHY, VIGOROUS CONDITION.

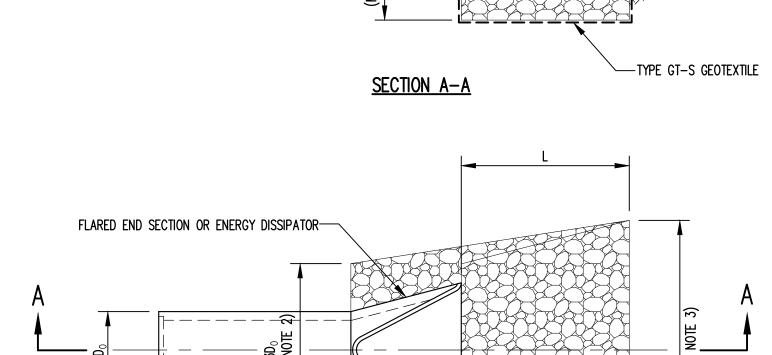
TEMPORARY INLET PROTECTION

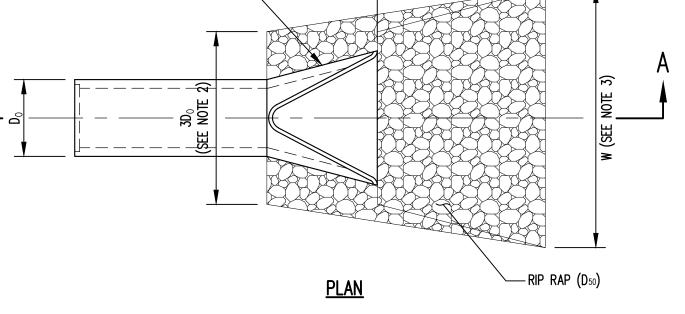
- 1. INSPECT PIPE AND DROP INLETS AT LEAST WEEKLY AND AFTER EACH SIGNIFICANT (1.0 INCH OR GREATER) RAINFALL EVENT.
- 2. CLEAR INLET PROTECTION MEASURES OF ANY DEBRIS OR OTHER OBJECTS TO PROVIDE ADEQUATE FLOW FOR SUBSEQUENT RAINS.
- 3. REPAIR DAMAGED INLET PROTECTION MATERIALS AND REPLACE STONE AS NEEDED.

<u>SKIMMER BASINS:</u>

MAINTENANCE OF EROSION AND SEDIMENTATION CONTROL FEATURES

- 1. INSPECT SKIMMER BASINS AT LEAST WEEKLY AND AFTER EACH SIGNIFICANT (1.0 INCH OR GREATER) RAINFALL EVENT AND REPAIR IMMEDIATELY. REMOVE SEDIMENT AND RESTORE THE BASIN TO ITS ORIGINAL DIMENSIONS WHEN SEDIMENT ACCUMULATES TO ONE-HALF THE HEIGHT OF THE FIRST BAFFLE. PULL THE SKIMMER TO ONE SIDE SO THAT THE SEDIMENT UNDERNEATH IT CAN BE EXCAVATED. EXCAVATE THE SEDIMENT FROM THE ENTIRE BASIN, NOT JUST AROUND THE SKIMMER OR FIRST CELL. MAKE SURE VEGETATION GROWING IN THE BOTTOM OF THE BASIN DOES NOT HOLD DOWN THE SKIMMER.
- UNDERNEATH OR AROUND THEM.
- 3. IF THE SKIMMER IS CLOGGED WITH TRASH AND THERE IS WATER IN THE BASIN, USUALLY PULLING ON THE ROPE WILL MAKE THE SKIMMER BOB UP AND DOWN AND DISLODGE THE DEBRIS AND RESTORE FLOW. IF THIS DOES NOT WORK, PULL THE SKIMMER TO THE SIDE OF THE BASIN AND REMOVE THE DEBRIS. ALSO CHECK THE ORIFICE INSIDE THE SKIMMER TO SEE IF IT IS CLOGGED; IF SO REMOVE DEBRIS.
- 4. IF THE SKIMMER ARM OR BARREL PIPE IS CLOGGED, THE ORIFICE CAN BE REMOVED AND THE OBSTRUCTION CLEARED WITH A PLUMBER'S SNAKE OR BY FLUSHING WITH WATER. BE SURE TO REPLACE THE ORIFICE BEFORE REPOSITIONING THE SKIMMER.
- 5. CHECK THE EMBANKMENT, SPILLWAYS, AND OUTLET FOR EROSION DAMAGE, AND INSPECT THE EMBANKMENT FOR PIPING AND SETTLEMENT. MAKE ALL NECESSARY REPAIRS IMMEDIATELY. REMOVE ALL TRASH AND OTHER DEBRIS FROM THE SKIMMER AND POOL AREAS.
- SHOULD BE TAKEN IN THE WINTER TO PREVENT THE SKIMMER FROM PLUGGING WITH ICE.





1. D50 REFERS TO THE MINIMUM REQUIRED AVERAGE

—RIP RAP (D50)

- STONE SIZE. 2. FOR MORE THAN ONE PIPE, EXTEND RIP RAP 1.0' MIN.
- BEYOND OUTSIDE EDGES OF PIPES.
- 3. FOR APRONS IN CHANNELS, EXTEND RIP RAP TO TOP OF CHANNEL.

RIP RAP OUTLET PROTECTION SCHEDULE (FEET) (INCHES) (FEET) (FEET) DC-12C CHANNEL WIDTH 1.5 1.5 C-A 10 CHANNEL WIDTH 1. PLACE RIP RAP FULL WIDTH OF CHANNEL.

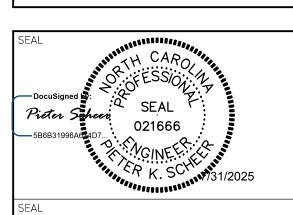
RIP RAP OUTLET PROTECTION

HARNETT COUNTY | SOLID WASTE DEPARTMENT | LILLINGTON **NORTH CAROLINA**

NC LIC. NO. F-1 SC COA NO. C0148

ENGINEERS

14 N. Boylan Avenue, Raleigh NC 27603 | 919.828.057 526 Richland St., Columbia SC 29201



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ANDERSON CREEK LANDFILL FACILITY C&D LANDFILL EXPANSION CONSTRUCTION DRAWINGS

RAWING TITLE:

EROSION AND SEDIMENTATION CONTROL DETAILS (SHEET 2 OF 2)

P.K.S. HARNETT-AC-20-J.R.G. AS SHOWN ICL JULY 2025 HARNETT-D0245

FOR BIDDING NOT FOR CONSTRUCTION

Contractor shall be solely responsible for initiating, maintaining and supervising all safety precautions and programs in connection with the Work. Contractor shall comply with all applicable Laws and Regulations relating to the safety of persons or property, or to the protection of persons or property from damage, injury, or loss; and shall erect and maintain all necessary safeguards for such safety and protection.

2025 Smith Gardner, Inc.

implementing the details and specifications on this plan sheet will result in the construction activity being considered compliant with the Ground Stabilization and Materials Handling sections of the NCG01 Construction General Permit (Sections E and F, respectively). The permittee shall comply with the Erosion and Sediment Control plan approved by the delegated authority having jurisdiction. All details and specifications shown on this sheet may not apply depending on site conditions and the delegated authority having jurisdiction.

SECTION E: GROUND STABILIZATION

	Required Ground Stabilization Timeframes			
Site Area Description		Stabilize within this many calendar days after ceasing land disturbance	Timeframe variations	
(a)	Perimeter dikes, swales, ditches, and perimeter slopes	7	None	
(b)	High Quality Water (HQW) Zones	7	None	
(c)	Slopes steeper than 3:1	7	If slopes are 10' or less in length and are not steeper than 2:1, 14 days are allowed	
(d)	Slopes 3:1 to 4:1	14	-7 days for slopes greater than 50' in length and with slopes steeper than 4:1 -7 days for perimeter dikes, swales, ditches, perimeter slopes and HQW Zones -10 days for Falls Lake Watershed	
(e)	Areas with slopes flatter than 4:1	14	-7 days for perimeter dikes, swales, ditches, perimeter slopes and HQW Zones -10 days for Falls Lake Watershed unless there is zero slope	

Note: After the permanent cessation of construction activities, any areas with temporary ground stabilization shall be converted to permanent ground stabilization as soon as practicable but in no case longer than 90 calendar days after the last land disturbing activity. Temporary ground stabilization shall be maintained in a manner to render the surface stable against accelerated erosion until permanent ground stabilization is achieved.

GROUND STABILIZATION SPECIFICATION

Stabilize the ground sufficiently so that rain will not dislodge the soil. Use one of the techniques in the table below:

Temporary Stabilization	Permanent Stabilization
 Temporary grass seed covered with straw or other mulches and tackifiers 	Permanent grass seed covered with straw or other mulches and tackifiers
 Hydroseeding Rolled erosion control products with or without temporary grass seed Appropriately applied straw or other mulch Plastic sheeting 	 Geotextile fabrics such as permanent soil reinforcement matting Hydroseeding Shrubs or other permanent plantings covered with mulch
	 Uniform and evenly distributed ground cover sufficient to restrain erosion Structural methods such as concrete, asphalt or retaining walls Rolled erosion control products with grass seed

POLYACRYLAMIDES (PAMS) AND FLOCCULANTS

- Select flocculants that are appropriate for the soils being exposed during construction, selecting from the NC DWR List of Approved PAMS/Flocculants.
- Apply flocculants at or before the inlets to Erosion and Sediment Control Measures.
- 3. Apply flocculants at the concentrations specified in the NC DWR List of Approved PAMS/Flocculants and in accordance with the manufacturer's instructions.
- 4. Provide ponding area for containment of treated Stormwater before discharging
- 5. Store flocculants in leak-proof containers that are kept under storm-resistant cover or surrounded by secondary containment structures.

EQUIPMENT AND VEHICLE MAINTENANCE

- 1. Maintain vehicles and equipment to prevent discharge of fluids.
- 2. Provide drip pans under any stored equipment.
- Identify leaks and repair as soon as feasible, or remove leaking equipment from the
- Collect all spent fluids, store in separate containers and properly dispose as hazardous waste (recycle when possible).
- 5. Remove leaking vehicles and construction equipment from service until the problem has been corrected.
- Bring used fuels, lubricants, coolants, hydraulic fluids and other petroleum products to a recycling or disposal center that handles these materials.

LITTER. BUILDING MATERIAL AND LAND CLEARING WASTE

- Never bury or burn waste. Place litter and debris in approved waste containers.
- 2. Provide a sufficient number and size of waste containers (e.g dumpster, trash receptacle) on site to contain construction and domestic wastes.
- Locate waste containers at least 50 feet away from storm drain inlets and surface waters unless no other alternatives are reasonably available.
- 4. Locate waste containers on areas that do not receive substantial amounts of runoff from upland areas and does not drain directly to a storm drain, stream or wetland.
- 5. Cover waste containers at the end of each workday and before storm events or
- provide secondary containment. Repair or replace damaged waste containers.
- 6. Anchor all lightweight items in waste containers during times of high winds. Empty waste containers as needed to prevent overflow. Clean up immediately if
- containers overflow.
- Dispose waste off-site at an approved disposal facility.
- On business days, clean up and dispose of waste in designated waste containers.

PAINT AND OTHER LIQUID WASTE

- 1. Do not dump paint and other liquid waste into storm drains, streams or wetlands.
- 2. Locate paint washouts at least 50 feet away from storm drain inlets and surface waters unless no other alternatives are reasonably available.
- Contain liquid wastes in a controlled area.
- Containment must be labeled, sized and placed appropriately for the needs of site.
- Prevent the discharge of soaps, solvents, detergents and other liquid wastes from construction sites.

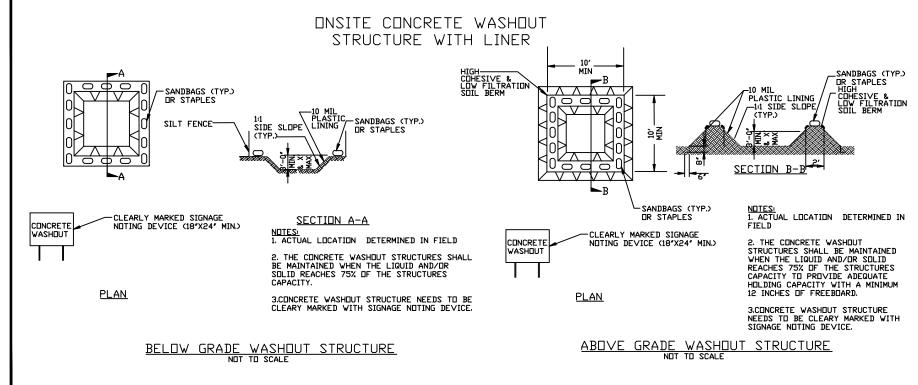
PORTABLE TOILETS

- Install portable toilets on level ground, at least 50 feet away from storm drains, streams or wetlands unless there is no alternative reasonably available. If 50 foot offset is not attainable, provide relocation of portable toilet behind silt fence or place on a gravel pad and surround with sand bags.
- Provide staking or anchoring of portable toilets during periods of high winds or in high foot traffic areas.
- Monitor portable toilets for leaking and properly dispose of any leaked material. Utilize a licensed sanitary waste hauler to remove leaking portable toilets and replace with properly operating unit.

EARTHEN STOCKPILE MANAGEMENT

- Show stockpile locations on plans. Locate earthen-material stockpile areas at least 50 feet away from storm drain inlets, sediment basins, perimeter sediment controls and surface waters unless it can be shown no other alternatives are reasonably available.
- Protect stockpile with silt fence installed along toe of slope with a minimum offset of five feet from the toe of stockpile.
- Provide stable stone access point when feasible.
- Stabilize stockpile within the timeframes provided on this sheet and in accordance with the approved plan and any additional requirements. Soil stabilization is defined as vegetative, physical or chemical coverage techniques that will restrain accelerated erosion on disturbed soils for temporary or permanent control needs.





CONCRETE WASHOUTS

- 1. Do not discharge concrete or cement slurry from the site.
- 2. Dispose of, or recycle settled, hardened concrete residue in accordance with local and state solid waste regulations and at an approved facility.
- 3. Manage washout from mortar mixers in accordance with the above item and in addition place the mixer and associated materials on impervious barrier and within lot perimeter silt fence.
- 4. Install temporary concrete washouts per local requirements, where applicable. If an alternate method or product is to be used, contact your approval authority for review and approval. If local standard details are not available, use one of the two types of temporary concrete washouts provided on this detail.
- Do not use concrete washouts for dewatering or storing defective curb or sidewalk sections. Stormwater accumulated within the washout may not be pumped into or discharged to the storm drain system or receiving surface waters. Liquid waste must be pumped out and removed from project.
- 6. Locate washouts at least 50 feet from storm drain inlets and surface waters unless it can be shown that no other alternatives are reasonably available. At a minimum, install protection of storm drain inlet(s) closest to the washout which could receive spills or overflow.
- Locate washouts in an easily accessible area, on level ground and install a stone entrance pad in front of the washout. Additional controls may be required by the approving authority.
- 8. Install at least one sign directing concrete trucks to the washout within the project limits. Post signage on the washout itself to identify this location.
- 9. Remove leavings from the washout when at approximately 75% capacity to limit overflow events. Replace the tarp, sand bags or other temporary structural components when no longer functional. When utilizing alternative or proprietary products, follow manufacturer's instructions.
- 10. At the completion of the concrete work, remove remaining leavings and dispose of in an approved disposal facility. Fill pit, if applicable, and stabilize any disturbance caused by removal of washout.

HERBICIDES, PESTICIDES AND RODENTICIDES

- 1. Store and apply herbicides, pesticides and rodenticides in accordance with label restrictions.
- 2. Store herbicides, pesticides and rodenticides in their original containers with the label, which lists directions for use, ingredients and first aid steps in case of accidental poisoning.
- 3. Do not store herbicides, pesticides and rodenticides in areas where flooding is possible or where they may spill or leak into wells, stormwater drains, ground water or surface water. If a spill occurs, clean area immediately.
- 4. Do not stockpile these materials onsite.

HAZARDOUS AND TOXIC WASTE

- 1. Create designated hazardous waste collection areas on-site.
- 2. Place hazardous waste containers under cover or in secondary containment.
- Do not store hazardous chemicals, drums or bagged materials directly on the ground.

EFFECTIVE: 04/01/19

SOLID WASTE DEPARTMENT LILLINGTON NORTH CAROLINA

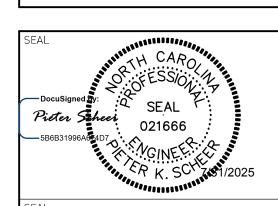
HARNETT COUNTY

NC LIC. NO. F-1

SMITH+

ENGINEERS

526 Richland St., Columbia SC 29201



DESCRIPTION

ANDERSON CREEK LANDFILL FACILITY C&D LANDFILL **EXPANSION CONSTRUCTION DRAWINGS**

GROUND STABILIZATION AND MATERIALS HANDLING (NCDEQ)

P.K.S. HARNETT-AC-20 J.R.G. AS SHOWN ICL JULY 2025

HARNETT-D0245 NCG01

NCG01 GROUND STABILIZATION AND MATERIALS HANDLING

SELF-INSPECTION, RECORDKEEPING AND REPORTING

SECTION A: SELF-INSPECTION

Self-inspections are required during normal business hours in accordance with the table below. When adverse weather or site conditions would cause the safety of the inspection personnel to be in jeopardy, the inspection may be delayed until the next business day on which it is safe to perform the inspection. In addition, when a storm event of equal to or greater than 1.0 inch occurs outside of normal business hours, the self-inspection shall be performed upon the commencement of the next business day. Any time when inspections were delayed shall be noted in the Inspection Record.

Inspect	Frequency (during normal business hours)	Inspection records must include:
(1) Rain gauge maintained in good working order	Daily	Daily rainfall amounts. If no daily rain gauge observations are made during weekend or holiday periods, and no individual-day rainfall information is available, record the cumulative rain measurement for those un-attended days (and this will determine if a site inspection is needed). Days on which no rainfall occurred shall be recorded as "zero." The permittee may use another rain-monitoring device approved by the Division.
(2) E&SC Measures	At least once per 7 calendar days and within 24 hours of a rain event > 1.0 inch in 24 hours	 Identification of the measures inspected, Date and time of the inspection, Name of the person performing the inspection, Indication of whether the measures were operating properly, Description of maintenance needs for the measure, Description, evidence, and date of corrective actions taken.
(3) Stormwater discharge outfalls (SDOs)	At least once per 7 calendar days and within 24 hours of a rain event > 1.0 inch in 24 hours	 Identification of the discharge outfalls inspected, Date and time of the inspection, Name of the person performing the inspection, Evidence of indicators of stormwater pollution such as oil sheen, floating or suspended solids or discoloration, Indication of visible sediment leaving the site, Description, evidence, and date of corrective actions taken.
(4) Perimeter of site	At least once per 7 calendar days and within 24 hours of a rain event > 1.0 inch in 24 hours	 If visible sedimentation is found outside site limits, then a record of the following shall be made: Actions taken to clean up or stabilize the sediment that has left the site limits, Description, evidence, and date of corrective actions taken, and An explanation as to the actions taken to control future releases.
(5) Streams or wetlands onsite or offsite (where accessible)	At least once per 7 calendar days and within 24 hours of a rain event > 1.0 inch in 24 hours	If the stream or wetland has increased visible sedimentation or a stream has visible increased turbidity from the construction activity, then a record of the following shall be made: 1. Description, evidence and date of corrective actions taken, and 2. Records of the required reports to the appropriate Division Regional Office per Part III, Section C, Item (2)(a) of this permit.
(6) Ground stabilization measures	After each phase of grading	 The phase of grading (installation of perimeter E&SC measures, clearing and grubbing, installation of storm drainage facilities, completion of all land-disturbing activity, construction or redevelopment, permanent ground cover). Documentation that the required ground stabilization measures have been provided within the required timeframe or an assurance that they will be provided as soon as possible.

NOTE: The rain inspection resets the required 7 calendar day inspection requirement.

PART III SELF-INSPECTION, RECORDKEEPING AND REPORTING

SECTION B: RECORDKEEPING

1. E&SC Plan Documentation

The approved E&SC plan as well as any approved deviation shall be kept on the site. The approved E&SC plan must be kept up-to-date throughout the coverage under this permit. The following items pertaining to the E&SC plan shall be kept on site and available for inspection at all times during normal business hours.

Item to Document	Documentation Requirements
(a) Each E&SC measure has been installed and does not significantly deviate from the locations, dimensions and relative elevations shown on the approved E&SC plan.	Initial and date each E&SC measure on a copy of the approved E&SC plan or complete, date and sign an inspection report that lists each E&SC measure shown on the approved E&SC plan. This documentation is required upon the initial installation of the E&SC measures or if the E&SC measures are modified after initial installation.
(b) A phase of grading has been completed.	Initial and date a copy of the approved E&SC plan or complete, date and sign an inspection report to indicate completion of the construction phase.
(c) Ground cover is located and installed in accordance with the approved E&SC plan.	Initial and date a copy of the approved E&SC plan or complete, date and sign an inspection report to indicate compliance with approved ground cover specifications.
(d) The maintenance and repair requirements for all E&SC measures have been performed.	Complete, date and sign an inspection report.
(e) Corrective actions have been taken to E&SC measures.	Initial and date a copy of the approved E&SC plan or complete, date and sign an inspection report to indicate the completion of the corrective action.

2. Additional Documentation to be Kept on Site

In addition to the E&SC plan documents above, the following items shall be kept on the site and available for inspectors at all times during normal business hours, unless the Division provides a site-specific exemption based on unique site conditions that make this requirement not practical:

- (a) This General Permit as well as the Certificate of Coverage, after it is received.
- (b) Records of inspections made during the previous twelve months. The permittee shall record the required observations on the Inspection Record Form provided by the Division or a similar inspection form that includes all the required elements. Use of electronically-available records in lieu of the required paper copies will be allowed if shown to provide equal access and utility as the hard-copy records.

3. Documentation to be Retained for Three Years

All data used to complete the e-NOI and all inspection records shall be maintained for a period of three years after project completion and made available upon request. [40 CFR 122.41]

PART II, SECTION G, ITEM (4) DRAW DOWN OF SEDIMENT BASINS FOR MAINTENANCE OR CLOSE OUT

Sediment basins and traps that receive runoff from drainage areas of one acre or more shall use outlet structures that withdraw water from the surface when these devices need to be drawn down for maintenance or close out unless this is infeasible. The circumstances in which it is not feasible to withdraw water from the surface shall be rare (for example, times with extended cold weather). Non-surface withdrawals from sediment basins shall be allowed only when all of the following criteria have been met:

- (a) The E&SC plan authority has been provided with documentation of the non-surface withdrawal and the specific time periods or conditions in which it will occur. The non-surface withdrawal shall not commence until the E&SC plan authority has approved these items,
- (b) The non-surface withdrawal has been reported as an anticipated bypass in accordance with Part III, Section C, Item (2)(c) and (d) of this permit,
- (c) Dewatering discharges are treated with controls to minimize discharges of pollutants from stormwater that is removed from the sediment basin. Examples of appropriate controls include properly sited, designed and maintained dewatering tanks, weir tanks, and filtration systems,
- (d) Vegetated, upland areas of the sites or a properly designed stone pad is used to the extent feasible at the outlet of the dewatering treatment devices described in Item (c) above,
- (e) Velocity dissipation devices such as check dams, sediment traps, and riprap are provided at the discharge points of all dewatering devices, and
- (f) Sediment removed from the dewatering treatment devices described in Item (c) above is disposed of in a manner that does not cause deposition of sediment into waters of the United States.

PART III SELF-INSPECTION, RECORDKEEPING AND REPORTING

SECTION C: REPORTING

1. Occurrences that Must be Reported

Permittees shall report the following occurrences:

- (a) Visible sediment deposition in a stream or wetland.
- (b) Oil spills if:
 - They are 25 gallons or more,
 - They are less than 25 gallons but cannot be cleaned up within 24 hours,
 - They cause sheen on surface waters (regardless of volume), or
 - They are within 100 feet of surface waters (regardless of volume).
- (c) Releases of hazardous substances in excess of reportable quantities under Section 311 of the Clean Water Act (Ref: 40 CFR 110.3 and 40 CFR 117.3) or Section 102 of CERCLA (Ref: 40 CFR 302.4) or G.S. 143-215.85.
- (d) Anticipated bypasses and unanticipated bypasses.
- (e) Noncompliance with the conditions of this permit that may endanger health or the environment.

2. Reporting Timeframes and Other Requirements

After a permittee becomes aware of an occurrence that must be reported, he shall contact the appropriate Division regional office within the timeframes and in accordance with the other requirements listed below. Occurrences outside normal business hours may also be reported to the Department's Environmental Emergency Center personnel at (800) 858-0368.

Occurrence	Reporting Timeframes (After Discovery) and Other Requirements
(a) Visible sediment	Within 24 hours, an oral or electronic notification.
deposition in a	Within 7 calendar days, a report that contains a description of the
stream or wetland	sediment and actions taken to address the cause of the deposition.
	Division staff may waive the requirement for a written report on a case-by-case basis.
	 If the stream is named on the <u>NC 303(d) list</u> as impaired for
	sediment-related causes, the permittee may be required to perform
	additional monitoring, inspections or apply more stringent practices if
	staff determine that additional requirements are needed to assure
	compliance with the federal or state impaired-waters conditions.
(b) Oil spills and	• Within 24 hours, an oral or electronic notification. The notification shall
release of	include information about the date, time, nature, volume and location of
hazardous	the spill or release.
substances per Item	
1(b)-(c) above	
(c) Anticipated	 A report at least ten days before the date of the bypass, if possible.
bypasses [40 CFR	The report shall include an evaluation of the anticipated quality and
122.41(m)(3)]	effect of the bypass.
(d) Unanticipated	Within 24 hours, an oral or electronic notification.
bypasses [40 CFR	Within 7 calendar days, a report that includes an evaluation of the
122.41(m)(3)]	quality and effect of the bypass.
(e) Noncompliance	Within 24 hours, an oral or electronic notification.
with the conditions	Within 7 calendar days, a report that contains a description of the
of this permit that	noncompliance, and its causes; the period of noncompliance,
may endanger	including exact dates and times, and if the noncompliance has not
health or the	been corrected, the anticipated time noncompliance is expected to
environment[40	continue; and steps taken or planned to reduce, eliminate, and
CFR 122.41(I)(7)]	prevent reoccurrence of the noncompliance. [40 CFR 122.41(I)(6).
	Division staff may waive the requirement for a written report on a
	case-by-case basis.



NCG01 SELF-INSPECTION, RECORDKEEPING AND REPORTING

EFFECTIVE: 04/01/19

HARNETT COUNTY
SOLID WASTE DEPARTMENT
LILLINGTON
NORTH CAROLINA

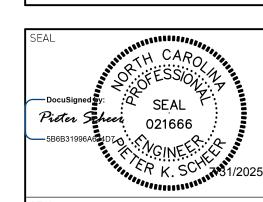
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PROJECT TITLE

ANDERSON CREEK LANDFILL FACILITY C&D LANDFILL EXPANSION CONSTRUCTION DRAWINGS

RAWING TITLE:

SELF-INSPECTION, RECORDKEEPING, AND REPORTING (NCDEQ)

PROJECT NO:
HARNETT-AC-20-1

PRAWN:
J.R.G.
PROVED:
JCL

DATE:
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