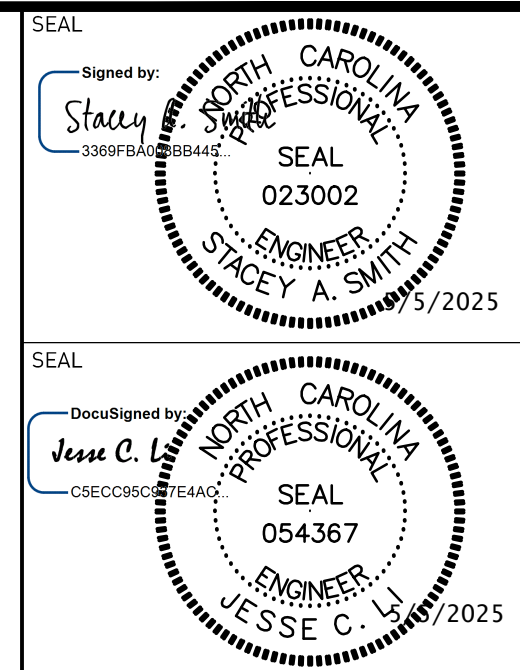




CUMBERLAND COUNTY, NORTH CAROLINA CUMBERLAND COUNTY SOLID WASTE MANAGEMENT

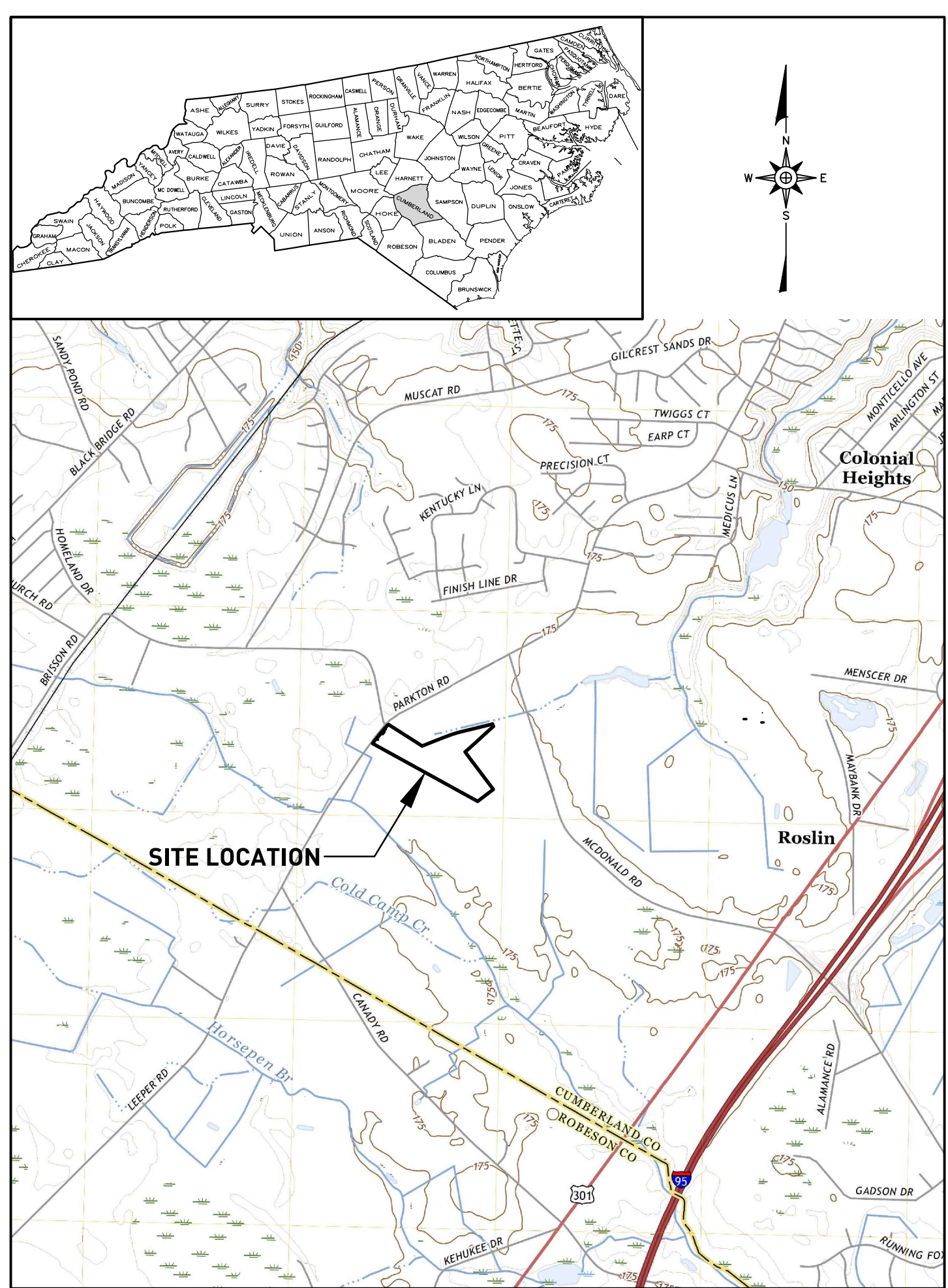
PARKTON ROAD SOLID WASTE CONVENIENCE CENTER CONSTRUCTION DRAWINGS

MARCH 2025



REV.	DATE	DESCRIPTION
1	04/2025	ADDENDUM NO. 1
2	05/2025	REBID

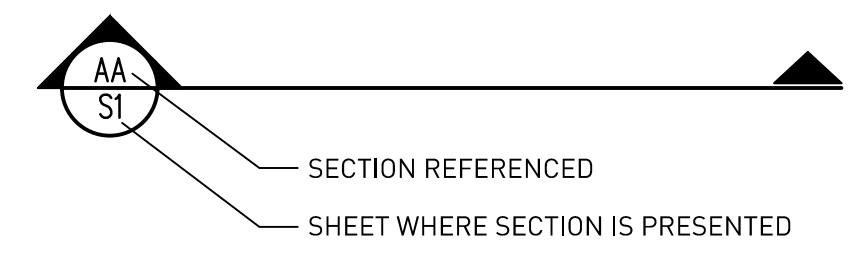
Electronic files are instruments of service provided by Smith Gardner, Inc. for the convenience of the intended recipient(s), and no warranty is either expressed or implied. Any reuse or redistribution of this document in whole or part without the written authorization of Smith Gardner, Inc. will be at the sole risk of the recipient. If there is a discrepancy between the electronic files and the signed and sealed hard copies, the hard copies shall govern. Use of any electronic files generated or provided by Smith Gardner, Inc. constitutes an acceptance of these terms and conditions.



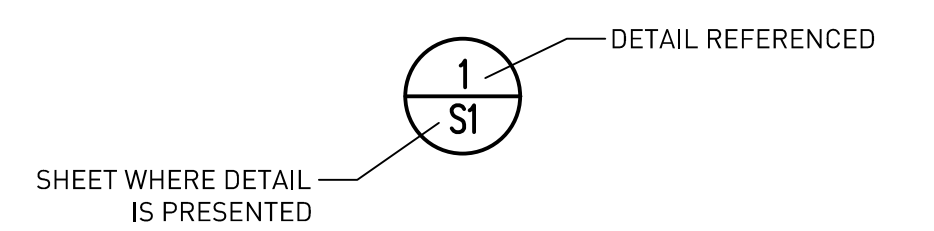
SITE LOCATION MAP
NOT TO SCALE

SHEET NO.	DRAWING NO.	DRAWING TITLE	REVISION NO.
1	--	TITLE - COVER SHEET	1/2
2	S1	EXISTING CONDITIONS	1/2
3	S2	SITE PLAN	1/2
4	S3	PROPOSED SEPTIC SYSTEM	1/2
5	D1	DETAILS	1/2
6	EC1	EROSION AND SEDIMENTATION CONTROL DETAILS (SHEET 1 OF 2)	1/2
7	EC2	EROSION AND SEDIMENTATION CONTROL DETAILS (SHEET 2 OF 2)	1/2
8	NCG01	GROUND STABILIZATION AND MATERIALS HANDLING PLAN	1/2
9	NCG02	SELF-INSPECTION, RECORD KEEPING, AND REPORTING PLAN	1/2

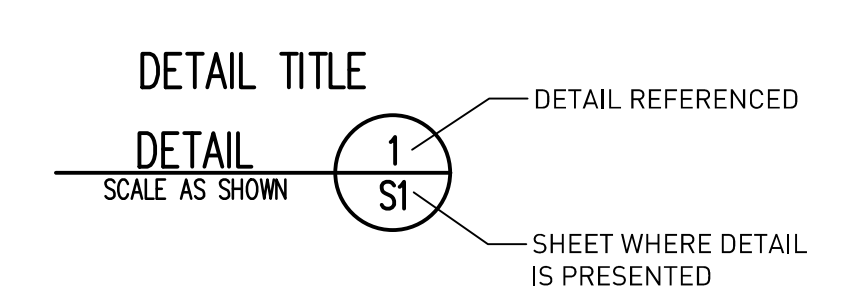
STANDARD SECTION LOCATION
CALLOUT (SHEET AND DETAIL)



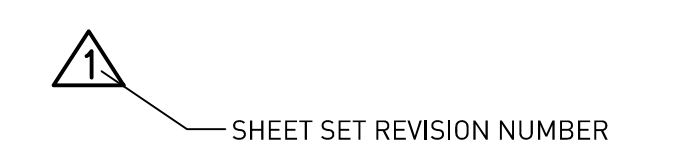
STANDARD DETAIL CALLOUT



STANDARD DETAIL LABEL AND CALLOUT



STANDARD REVISION
CALLOUT (SHEET AND DETAIL)



FOR BIDDING
NOT FOR CONSTRUCTION

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

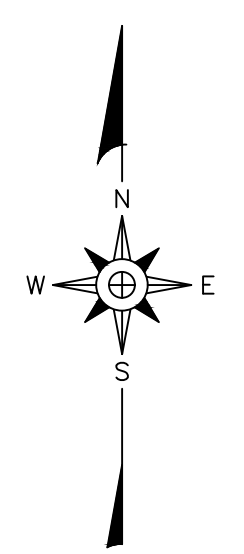
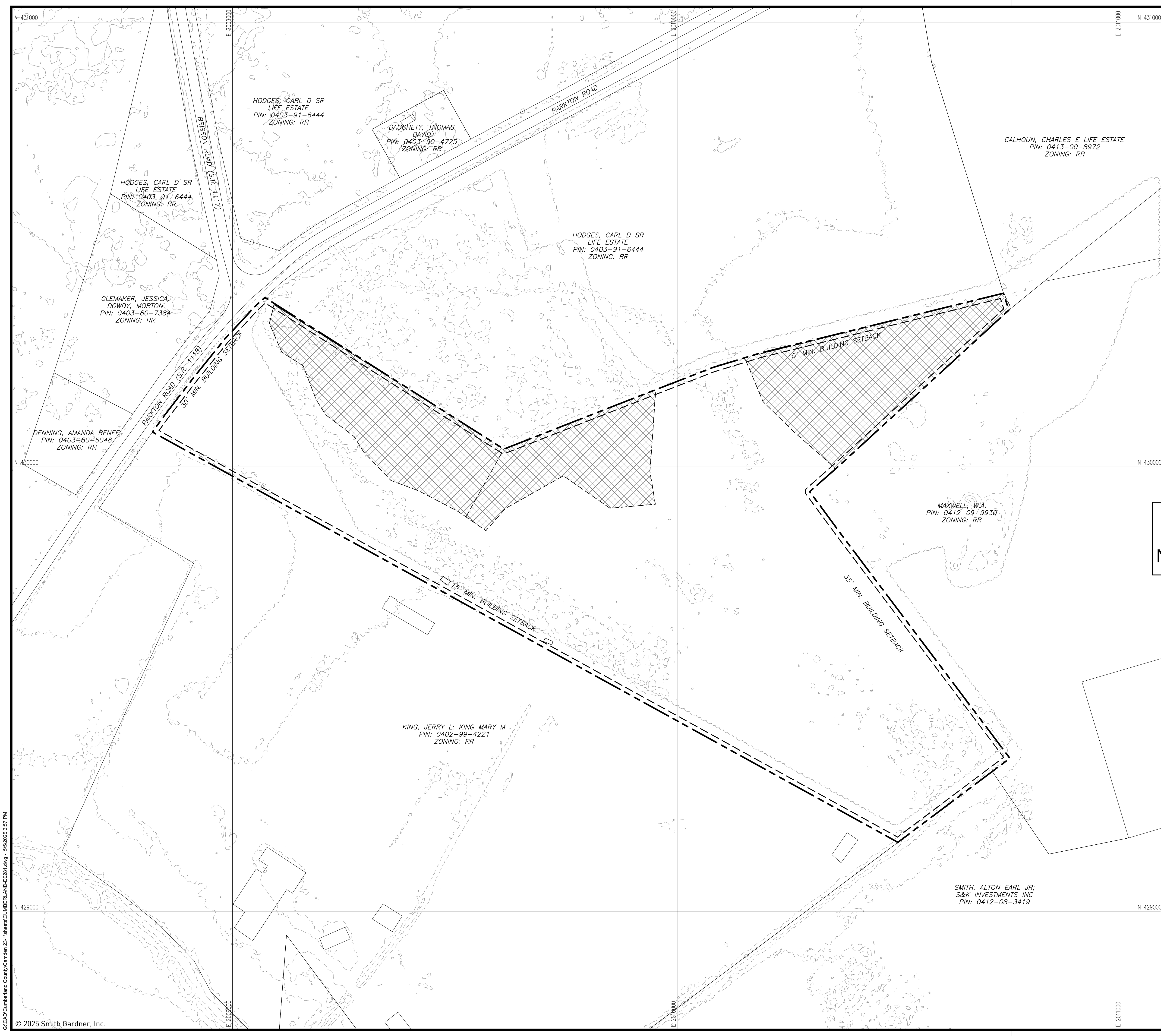


14 N. Boylan Avenue, Raleigh NC 27603 | 919.828.0577
1526 Richland St., Columbia SC 29201



Know what's below.
Call before you dig.

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.

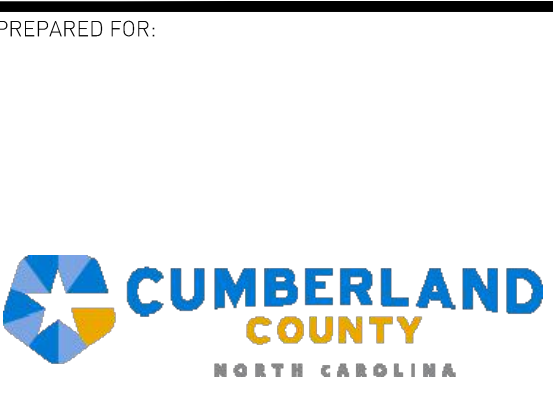
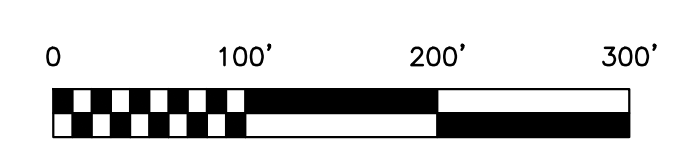


**FOR BIDDING
NOT FOR CONSTRUCTION**

- LEGEND**
- 150 ——— EXISTING 10' CONTOUR (SEE REFERENCE 1)
 - EXISTING 2' CONTOUR (SEE REFERENCE 1)
 - APPROXIMATE PARCEL BOUNDARY (SEE REFERENCE 2)
 - APPROXIMATE ADJACENT PARCEL BOUNDARY (SEE REFERENCE 2)
 - BUILDING SETBACK
 - 40' ACCESS EASEMENT
 - [Cross-hatched] APPROXIMATE WETLANDS (SEE NOTE 1) (SEE REFERENCE 3)
 - [Diagonal hatched] POSSIBLE WETLANDS (SEE NOTE 3)
 - APPROXIMATE LIMITS OF EXISTING TREES (SEE NOTE 3)

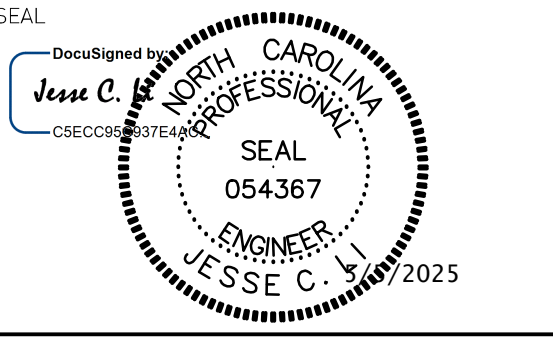
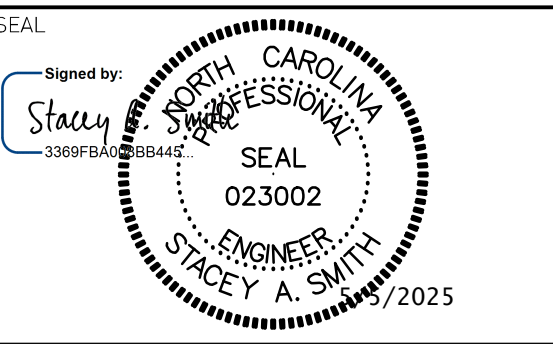
- NOTES**
- APPROXIMATE WETLANDS ARE FOR PLANNING PURPOSES ONLY AND REQUIRE VERIFICATION BY ARMY CORPS OF ENGINEERS.
 - EXISTING LIMIT OF TREES APPROXIMATED BASED ON AERIAL IMAGERY.
 - POSSIBLE WETLANDS ARE BASED ON A DESKTOP EVALUATION BY INVER ENVIRONMENTAL CONSULTING, LLC. FURTHER EVALUATION IS NEEDED PRIOR TO ANY DEVELOPMENT IN THESE AREAS.

- REFERENCES**
- TOPOGRAPHY FROM LIDAR DATA DATED 2015 FROM NC SPATIAL DATA DOWNLOAD.
 - PARCEL BOUNDARIES FROM CUMBERLAND COUNTY GIS DEPARTMENT.
 - APPROXIMATE WETLANDS DELINEATED BY INVER ENVIRONMENTAL CONSULTING, LLC ON JANUARY 4, 2024.



PREPARED BY: N.C. LIC. NO. F-1370
SC CDA NO. C01488

**SMITH+
GARDNER
ENGINEERS**
14 N. Boylan Avenue, Raleigh NC 27603 | 919.828.0577
1526 Richland St., Columbia SC 29201



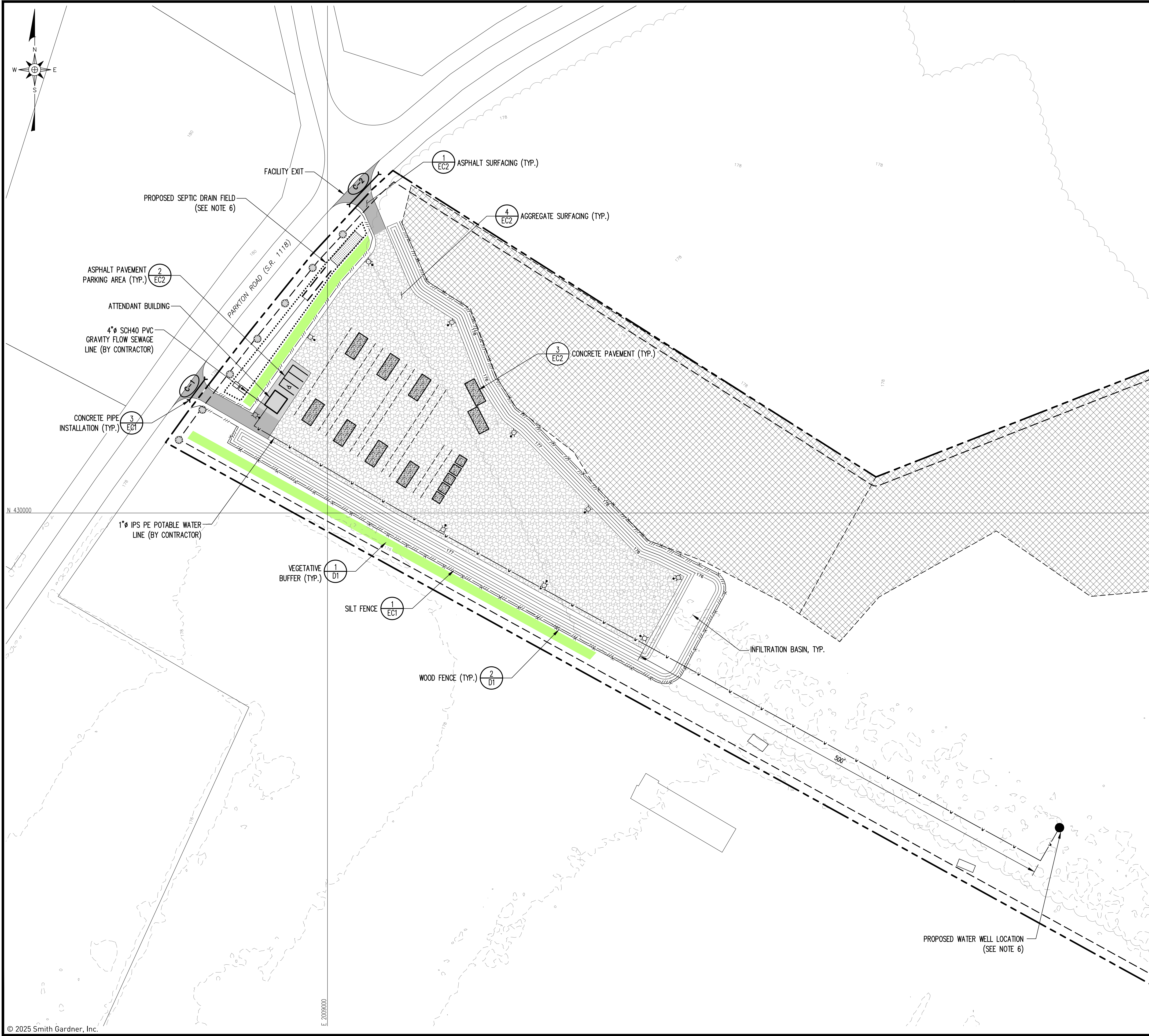
REV.	DATE	DESCRIPTION
2	05/2025	REBID

Electronic files are instruments of service provided by Smith Gardner, Inc. for the convenience of the intended recipients, and no warranty is either expressed or implied. Any reuse or redistribution of this document in whole or part without the written authorization of Smith Gardner, Inc. will be at the sole risk of the recipient. If there is a discrepancy between the electronic files and the signed and sealed hard copies, the hard copies shall govern. Use of any electronic files generated or provided by Smith Gardner, Inc. constitutes an acceptance of these terms and conditions.

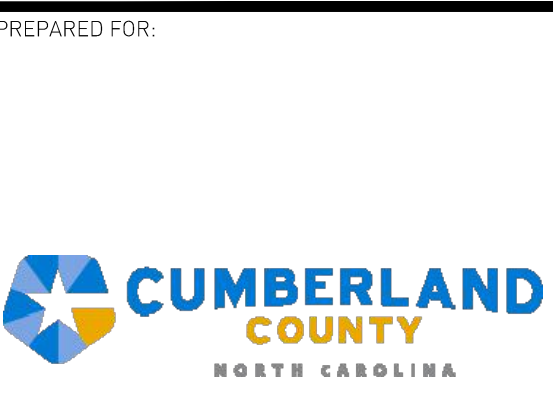
PROJECT TITLE:
**PARKTON
SOLID WASTE
CONVENIENCE CENTER &
RECYCLING FACILITY**

DRAWING TITLE:
EXISTING CONDITIONS

DESIGNED: S.W.H.	PROJECT NO: CAMDEN 23-1
DRAWN: L.H.B.	SCALE: AS SHOWN
APPROVED: JCL	DATE: JAN. 2024
FILENAME: CUMBERLAND-D0281	DRAWING NUMBER: S1
SHEET NUMBER: 2	

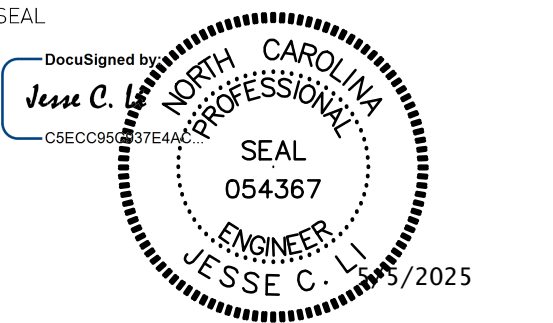
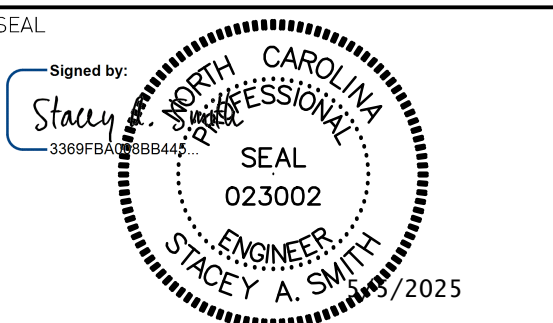


FOR BIDDING
NOT FOR CONSTRUCTION



PREPARED BY: **SMITH+GARDNER ENGINEERS**
 NC LIC. NO. F-1370
 SC CDA NO. 001488

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



- LEGEND**
- 150 ——— EXISTING 10' CONTOUR (SEE REFERENCE 1)
 - 178 ——— EXISTING 2' CONTOUR (SEE REFERENCE 1)
 - APPROXIMATE PARCEL BOUNDARY (SEE REFERENCE 2)
 - APPROXIMATE ADJONER PARCEL BOUNDARY (SEE REFERENCE 2)
 - WATER LINE
 - SEWAGE LINE
 - 10' SEPTIC SETBACK
 - /// SILT FENCE
 - x x x WOOD FENCE
 - ○ ○ UNDERGROUND CONDUIT
 - C-1 ○ PROPOSED CULVERT
 - VEGETATIVE BUFFER
 - AGGREGATE SURFACING
 - CONCRETE PAVEMENT
 - ASPHALT SURFACING
 - ASPHALT SURFACING (PARKING AREA)
 - APPROXIMATE WETLANDS (SEE NOTE 1) (SEE REFERENCE 3)
 - REPAIR FIELD
 - ○ ○ APPROXIMATE LIMITS OF EXISTING TREES (SEE NOTE 3)
 - LIGHTS

- NOTES**
- APPROXIMATE WETLANDS ARE FOR PLANNING PURPOSES ONLY AND REQUIRE VERIFICATION BY ARMY CORPS OF ENGINEERS. NO DEVELOPMENT TO OCCUR IN THESE AREAS PRIOR TO VERIFICATION, AND OBTAINING ALL APPROPRIATE PERMITS, AS NEEDED.
 - THE DEVELOPMENT IS PLANNED TO HAVE A BUILT UPON AREA LESS THAN 24% AND IS CONSIDERED A LOW DENSITY PROJECT. NO STORMWATER CONTROLS MEASURES ARE REQUIRED.
 - EXISTING LIMITS OF TREES APPROXIMATED BASED ON AERIAL IMAGERY.
 - LOCATION OF STONE FILTER FENCE IS APPROXIMATE AND SHALL BE FIELD ADJUSTED TO BE AT LOW POINTS, AS NEEDED.
 - SHADE TREES TO BE A MINIMUM OF TWO-INCH CALIPER AS SPECIFIED BY THE LATEST EDITION OF AMERICAN STANDARD FOR NURSERY STOCK PUBLISHED BY THE AMERICAN ASSOCIATION OF NURSERYMEN.
 - WELL AND SEPTIC PERMITTED BY THE CUMBERLAND COUNTY DEPARTMENT OF PUBLIC HEALTH UNDER PERMIT NUMBERS WELL-2025-00871 AND SEPTIC-2025-00912.
 - PROPOSED GRADES SHOWN REPRESENT TOP OF FINISHED GRADE OR TOP OF PAVEMENT/AGGREGATE SURFACING IN APPLICABLE AREAS.

- REFERENCES**
- TOPOGRAPHY FROM LIDAR DATA DATED 2015 FROM NC SPATIAL DATA DOWNLOAD.
 - PARCEL BOUNDARIES FROM CUMBERLAND COUNTY GIS DEPARTMENT.
 - APPROXIMATE WETLANDS DELINEATED BY INVER ENVIRONMENTAL CONSULTING, LLC ON JANUARY 5, 2024.

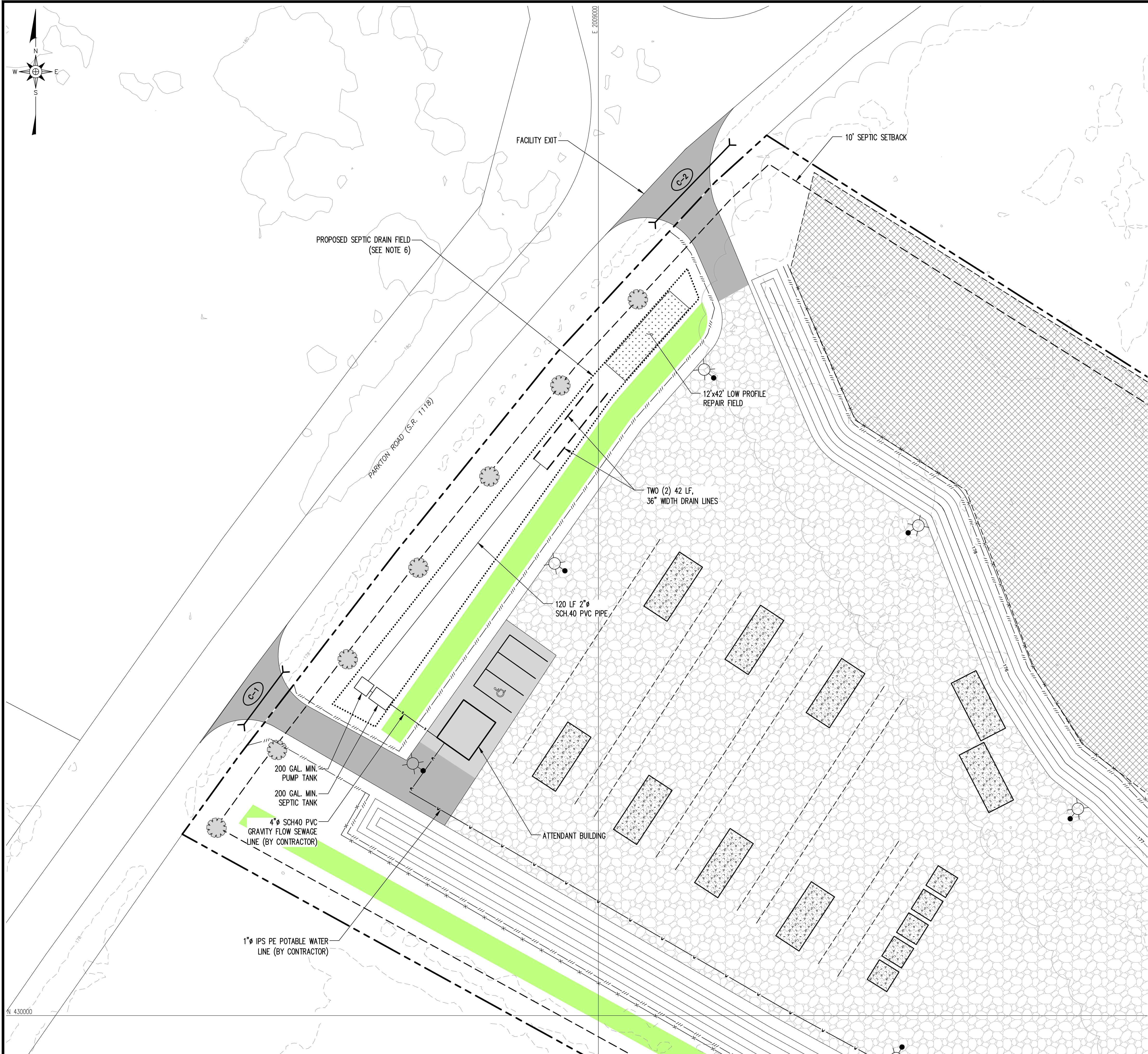


REV.	DATE	DESCRIPTION
1	04/2025	ADDENDUM NO. 1
2	05/2025	REBID

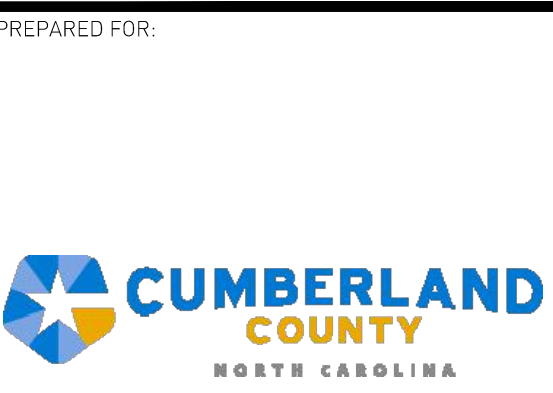
PROJECT TITLE:
PARKTON SOLID WASTE CONVENIENCE CENTER & RECYCLING FACILITY

DRAWING TITLE:
SITE PLAN

DESIGNED: S.W.H.	PROJECT NO: CAMDEN 23-1
DRAWN: L.H.B.	SCALE: AS SHOWN
APPROVED: JCL	DATE: JAN. 2024
FILENAME: CUMBERLAND-D0281	
SHEET NUMBER: 3	DRAWING NUMBER: S2



FOR BIDDING
NOT FOR CONSTRUCTION

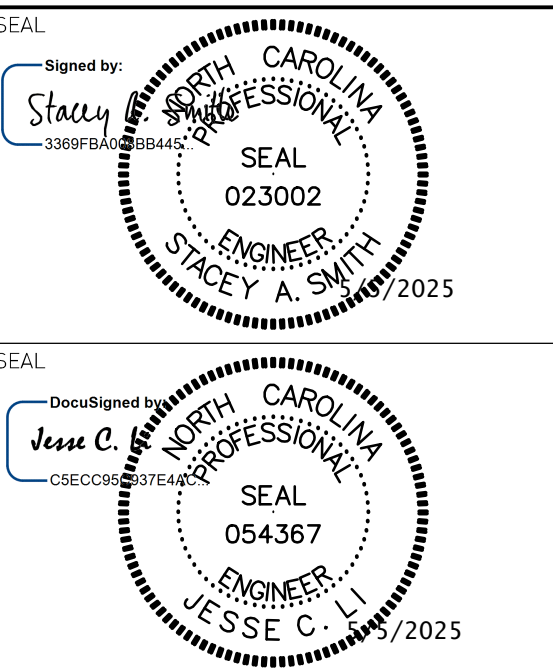


PREPARED FOR:
 NC LIC. NO. F-1370
 SC CDA NO. C01488

**SMITH+
 GARDNER
 ENGINEERS**
 14 N. Boylan Avenue, Raleigh NC 27603 | 919.828.0577
 1526 Richland St., Columbia SC 29201

LEGEND

- EXISTING 10' CONTOUR (SEE REFERENCE 1)
- EXISTING 2' CONTOUR (SEE REFERENCE 1)
- APPROXIMATE PARCEL BOUNDARY (SEE REFERENCE 2)
- APPROXIMATE ADJOINER PARCEL BOUNDARY (SEE REFERENCE 2)
- WATER LINE
- SEWAGE LINE
- 10' SEPTIC SETBACK
- SILT FENCE
- WOOD FENCE
- UNDERGROUND CONDUIT
- PROPOSED CULVERT
- VEGETATIVE BUFFER
- AGGREGATE SURFACING
- CONCRETE PAVEMENT
- ASPHALT SURFACING
- ASPHALT SURFACING (PARKING AREA)
- APPROXIMATE WETLANDS (SEE NOTE 1) (SEE REFERENCE 3)
- REPAIR FIELD
- APPROXIMATE LIMITS OF EXISTING TREES (SEE NOTE 3)
- LIGHTS



REV.	DATE	DESCRIPTION
2	05/2025	REBID

SEPTIC SYSTEM NOTES

1. SEPTIC PERMIT ISSUED BY THE CUMBERLAND COUNTY DEPARTMENT OF PUBLIC HEALTH UNDER PERMIT NO. SEPTIC2025-00912.
2. ENSURE 10' SETBACK FROM ALL PROPERTY LINES AND 5' SETBACK FROM BUILDING FOUNDATION.
3. ENSURE 100' SETBACK FROM SEPTIC AREAS AND ANY WELLS.
4. INSTALL ON CONTOUR.
5. INSTALL IN DRY CONDITIONS.
6. DO NOT DRIVE OVER SEPTIC AREA.
7. INSTALL AS DESIGNED FOR 3 EMPLOYEE ATTENDANT BUILDING.
8. MAX TRENCH BOTTOM DEPTH IN NITRIFICATION FIELD: 8"

NOTES

1. APPROXIMATE WETLANDS ARE FOR PLANNING PURPOSES ONLY AND REQUIRE VERIFICATION BY ARMY CORPS OF ENGINEERS. NO DEVELOPMENT TO OCCUR IN THESE AREAS PRIOR TO VERIFICATION, AND OBTAINING ALL APPROPRIATE PERMITS, AS NEEDED.
2. THE DEVELOPMENT IS PLANNED TO HAVE A BUILT UPON AREA LESS THAN 24% AND IS CONSIDERED A LOW DENSITY PROJECT. NO STORMWATER CONTROLS MEASURES ARE REQUIRED.
3. EXISTING LIMITS OF TREES APPROXIMATED BASED ON AERIAL IMAGERY.
4. LOCATION OF STONE FILTER FENCE IS APPROXIMATE AND SHALL BE FIELD ADJUSTED TO BE AT LOW POINTS, AS NEEDED.
5. SHADE TREES TO BE A MINIMUM OF TWO-INCH CALIPER AS SPECIFIED BY THE LATEST EDITION OF AMERICAN STANDARD FOR NURSERY STOCK PUBLISHED BY THE AMERICAN ASSOCIATION OF NURSERYMEN.
6. WELL AND SEPTIC AREAS TO BE PERMITTED WITH CUMBERLAND COUNTY ENVIRONMENTAL HEALTH.
7. PROPOSED GRADES SHOWN REPRESENT TOP OF FINISHED GRADE OR TOP OF PAVEMENT/AGGREGATE SURFACING IN APPLICABLE AREAS.

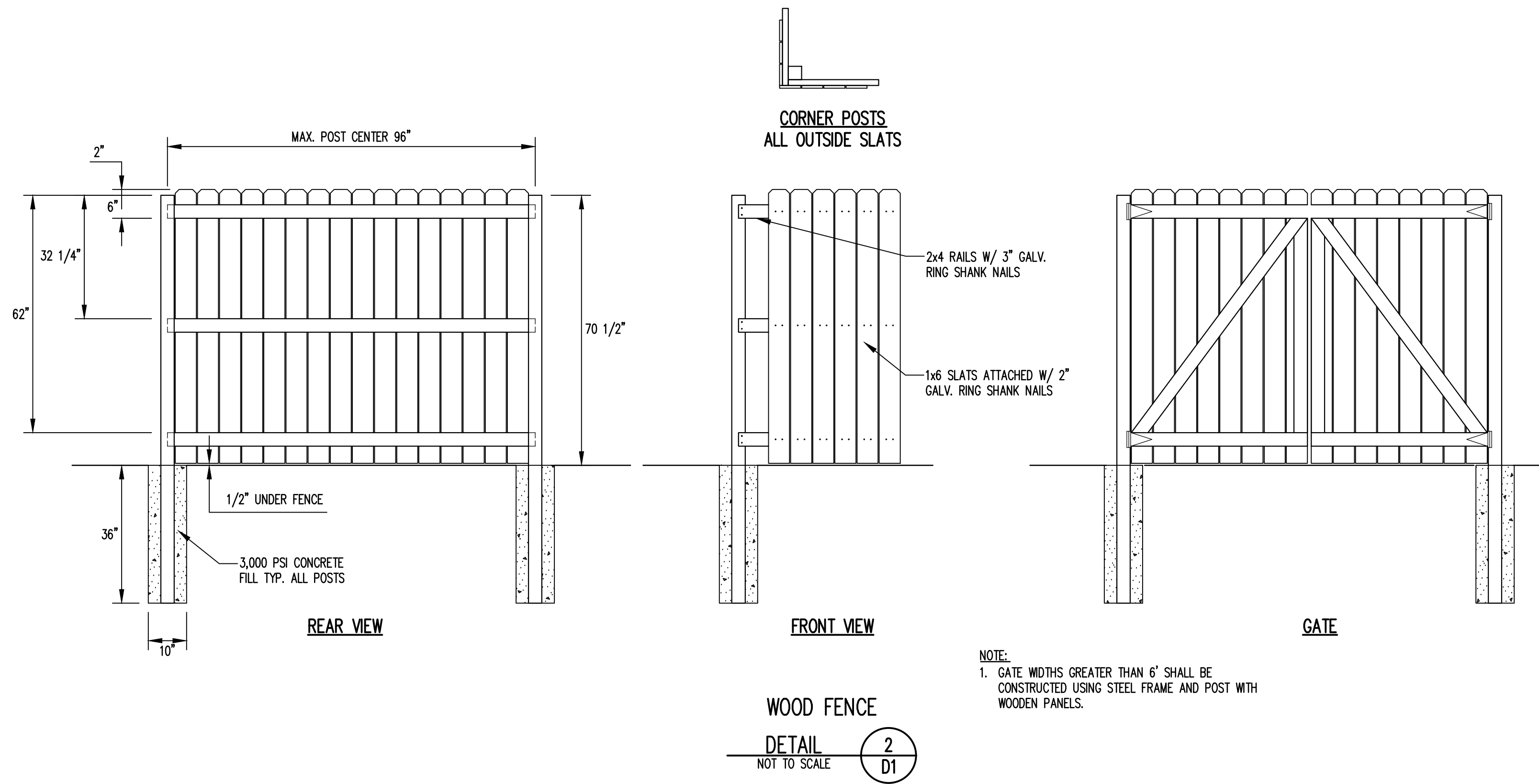
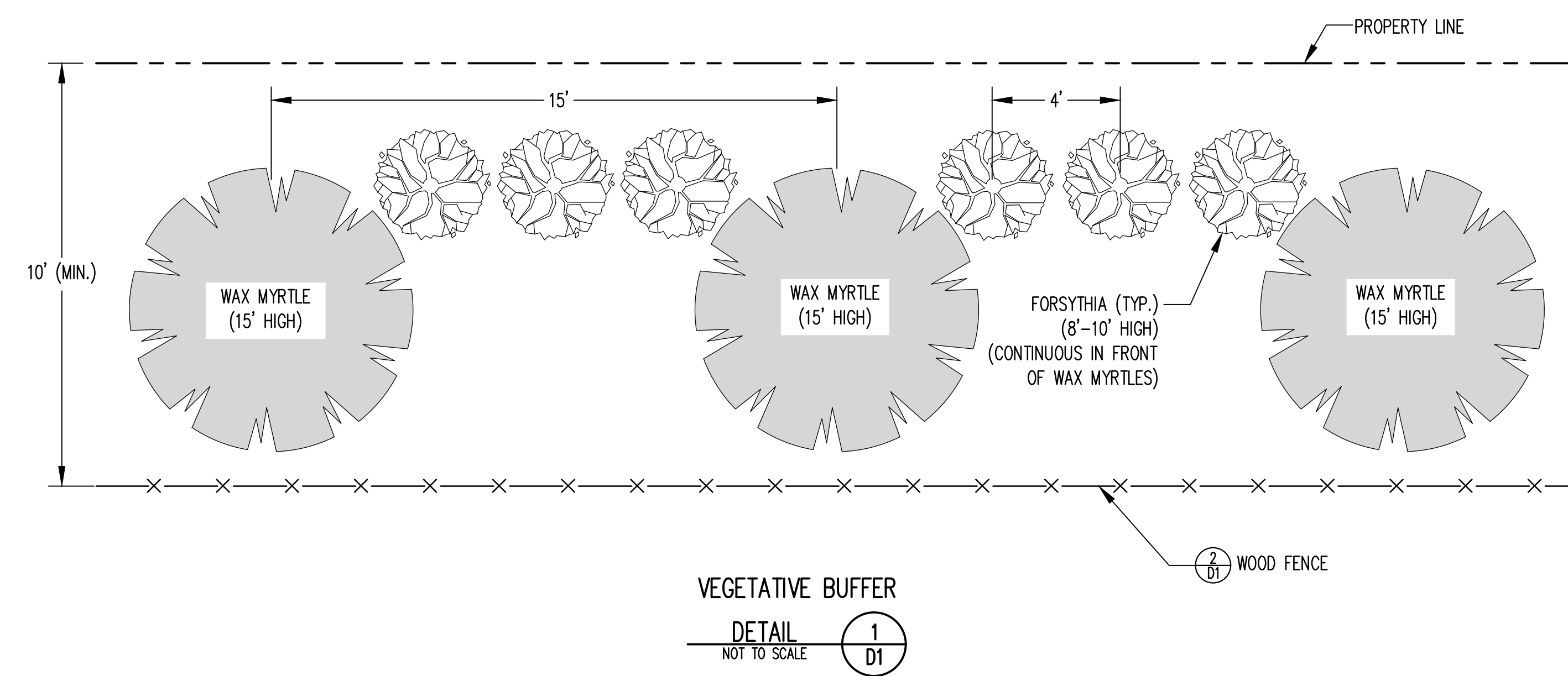
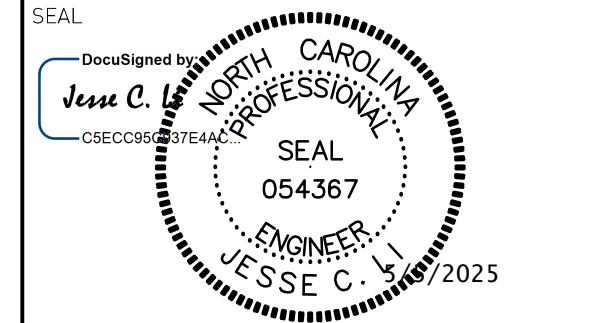
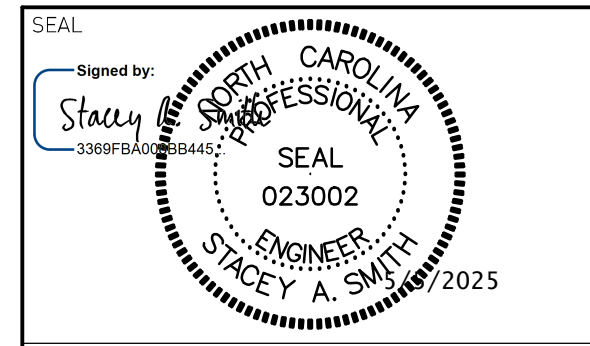
REFERENCES

1. TOPOGRAPHY FROM LIDAR DATA DATED 2015 FROM NC SPATIAL DATA DOWNLOAD.
2. PARCEL BOUNDARIES FROM CUMBERLAND COUNTY GIS DEPARTMENT.
3. APPROXIMATE WETLANDS DELINEATED BY INVER ENVIRONMENTAL CONSULTING, LLC ON JANUARY 5, 2024.

PROJECT TITLE:
**PARKTON
 SOLID WASTE
 CONVENIENCE CENTER &
 RECYCLING FACILITY**

DRAWING TITLE:
PROPOSED SEPTIC SYSTEM

DESIGNED: S.W.H.	PROJECT NO: CAMDEN 23-1
DRAWN: L.H.B.	SCALE: AS SHOWN
APPROVED: JCL	DATE: JAN. 2024
FILENAME: CUMBERLAND-D0281	
SHEET NUMBER: 4	DRAWING NUMBER: S3



GENERAL NOTES
1. THE SITE IS REQUIRED TO OBTAIN A NPDES CONSTRUCTION STORMWATER CERTIFICATE OF COVERAGE (COC) PRIOR TO INITIATING THE PROJECT.
2. THE SITE IS REQUIRED TO FILE A NOTICE OF TERMINATION FOR THE COC AFTER THE PROJECT IS FINISHED.

FOR BIDDING
NOT FOR CONSTRUCTION

REV.	DATE	DESCRIPTION
2	05/2025	REBID

Electronic files are instruments of service provided by Smith Gardner, Inc. for the convenience of the intended recipients, and no warranty is either expressed or implied. Any reuse or redistribution of this document in whole or part without the written authorization of Smith Gardner, Inc. will be at the sole risk of the recipient. If there is a discrepancy between the electronic files and the signed and sealed hard copies, the hard copies shall govern. Use of any electronic files generated or provided by Smith Gardner, Inc. constitutes an acceptance of these terms and conditions.

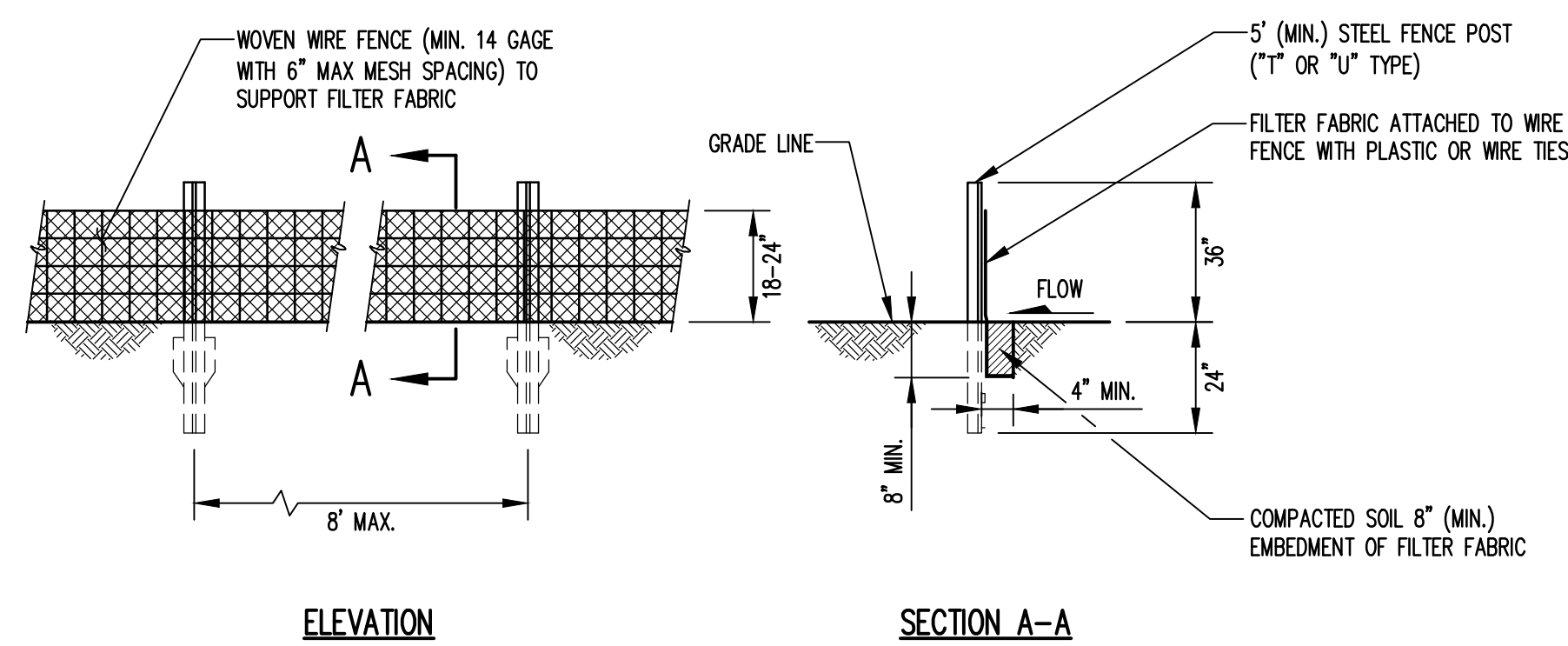
PROJECT TITLE:
PARKTON SOLID WASTE CONVENIENCE CENTER & RECYCLING FACILITY

DRAWING TITLE:
DETAILS

DESIGNED: S.W.H.	PROJECT NO: CAMDEN 23-1
DRAWN: L.H.B.	SCALE: AS SHOWN
APPROVED: JCL	DATE: JAN. 2024
FILE NAME: CUMBERLAND-D0282	DRAWING NUMBER:
5	D1

GENERAL EROSION AND SEDIMENTATION CONTROL NOTES

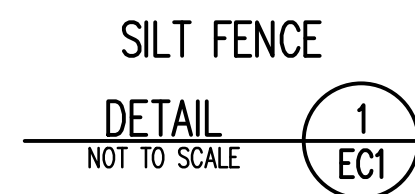
- ALL EROSION AND SEDIMENTATION CONTROL WORK SHALL BE IN ACCORDANCE WITH THE LATEST EDITION OF THE NORTH CAROLINA EROSION AND SEDIMENT CONTROL PLANNING AND DESIGN MANUAL AS WELL AS APPLICABLE REGULATIONS.
- AN EROSION AND SEDIMENT CONTROL (E&SC) PERMIT AND A CERTIFICATE OF COVERAGE (COC) MUST BE OBTAINED 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 SCHEDULE:
 - FLAG THE CLEARING LIMITS AND IDENTIFY ANY TREE PROTECTION AREAS WITH THE OWNER.
 - INSTALL TEMPORARY GRAVEL CONSTRUCTION ENTRANCE/EXIT (WHERE NECESSARY).
 - CLEAR THE VEGETATED PORTION OF THE SITE AND INSTALL SILT AND STONE FILTER FENCING (WHERE REQUIRED) PRIOR TO STRIPPING/GRUBBING.
 - ONLY STRIP/GRUB AREAS REQUIRED FOR INSTALLATION OF STRUCTURES, BERMS AND DRAINAGE CHANNELS. OTHER AREAS WILL BE STRIPPED/GRUBBED ONCE SEDIMENT BASINS ARE COMPLETED.
 - COMPLETE INSTALLATION OF SEDIMENT BASINS.
 - PERFORM EARTHWORK AS REQUIRED FOR CONSTRUCTION. INSTALL DRAINAGE AND EROSION AND SEDIMENTATION CONTROL MEASURES AS AREAS ARE BROUGHT TO GRADE.
 - PERFORM FINE GRADING AND ESTABLISH PERMANENT VEGETATION ON COMPLETED AREAS.
 - AFTER STABILIZATION, REMOVE SILT FENCING AND OTHER TEMPORARY MEASURES AS DIRECTED BY THE OWNER AND INSTALL PERMANENT VEGETATION ON THE DISTURBED AREAS.
- ALL EROSION AND SEDIMENTATION CONTROL MEASURES SHALL BE CONSTRUCTED ACCORDING TO THE CONTRACT DRAWINGS AND SPECIFICATIONS.
- SELF-INSPECTIONS FOR EROSION AND SEDIMENTATION CONTROL MEASURES ARE TO BE PERFORMED AT LEAST ONCE EVERY SEVEN CALENDAR DAYS AND WITHIN 24 HOURS OF EVERY RAIN EVENT OF GREATER THAN 1 INCH. ANY 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:
 - THE REMOVAL AND SATISFACTORY DISPOSAL OF TRAPPED OR DEPOSITED SEDIMENTS FROM BASINS, TRAPS, BARRIERS, FILTERS, AND/OR DRAINAGE FEATURES/DEVICES;
 - REPLACEMENT OF FILTER FABRICS USED FOR SILT FENCES UPON LOSS OF EFFICIENCY; AND
 - REPLACEMENT OF ANY OTHER COMPONENTS WHICH ARE DAMAGED OR CANNOT SERVE THE INTENDED USE.
- 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:
 - ALL PERIMETER DIKES, SWALES, DITCHES, PERIMETER SLOPES, AND ALL SLOPES STEEPER THAN 3 HORIZONTAL TO 1 VERTICAL (3H:1V) SHALL BE PROVIDED TEMPORARY OR PERMANENT STABILIZATION WITH GROUND COVER AS SOON AS PRACTICABLE BUT IN ANY EVENT WITHIN 7 CALENDAR DAYS FROM THE LAST LAND-DISTURBING ACTIVITY.
 - 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 ACTIVITY.
 - BASINS, TRAPS, CHANNELS, AND DIVERSIONS SHALL BE LINED WITH ANCHORED ROLLED EROSION PRODUCTS OR RIP RAP AND/OR VEGETATED UPON CONSTRUCTION.
 - 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.
- A COPY OF THE APPROVED EROSION AND SEDIMENTATION CONTROL PLAN, THE CERTIFICATE OF APPROVAL, AND LETTER OF APPROVAL ARE TO BE KEPT ON SITE (BY OWNER).
- THE NPDES PERMIT (WITH A MINIMUM OF 30 DAYS OF SELF-INSPECTION REPORTS) ARE TO BE KEPT ON SITE AND A RAIN GAUGE IS TO BE INSTALLED AND MAINTAINED FOR RECORD KEEPING UNTIL THE PROJECT IS CLOSED OUT BY THE LAND QUALITY SECTION REGIONAL OFFICE.
- UPON PROJECT COMPLETION, THE PERMITTEE SHALL CONTACT DEMUR TO CLOSE OUT THE EROSION AND SEDIMENTATION CONTROL PLAN.



ELEVATION

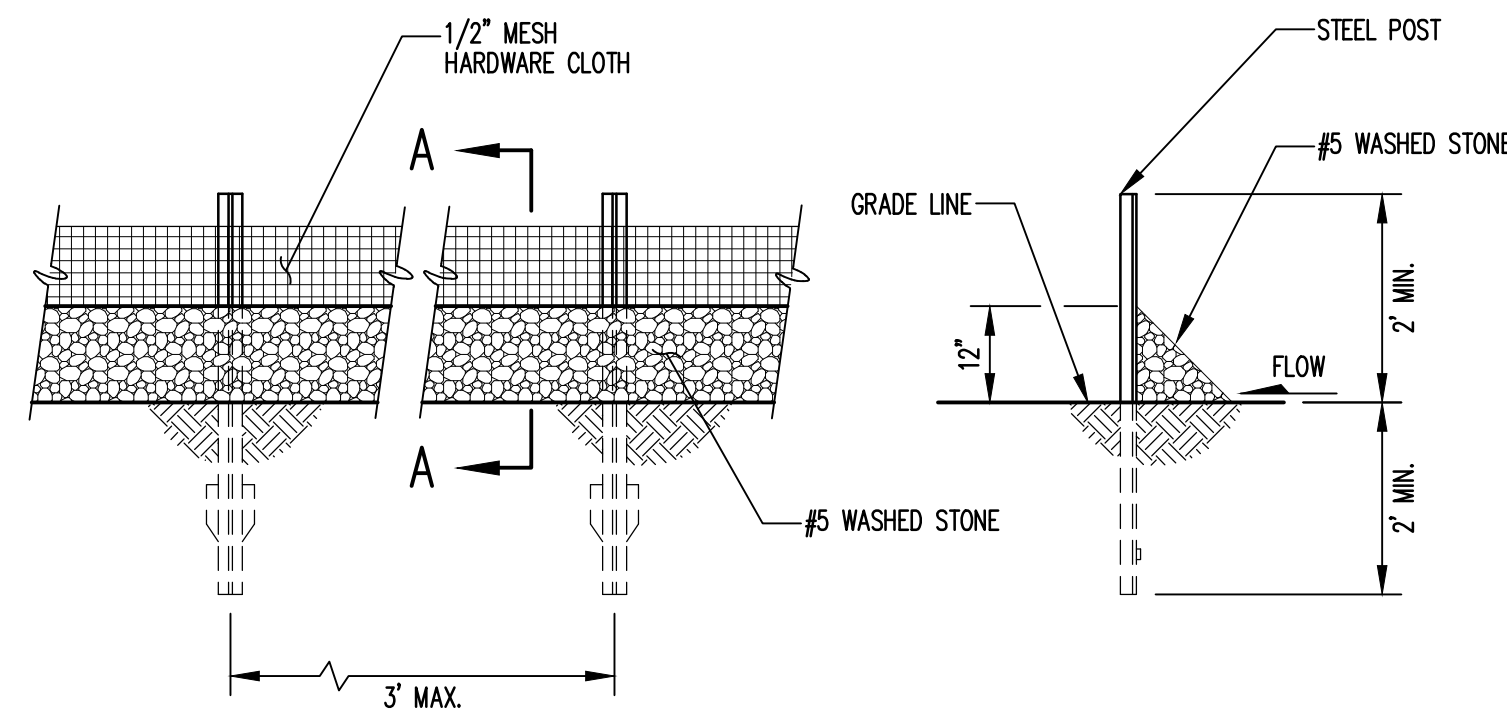
SECTION A-A

- NOTE:
- PLACE 10" MIN. LENGTH OF STONE FILTER FENCE AT LOW POINTS ALONG SILT FENCE AND WHERE DIRECTED BY THE ENGINEER TO RELEASE WATER. SEE DETAIL 2 ECI.



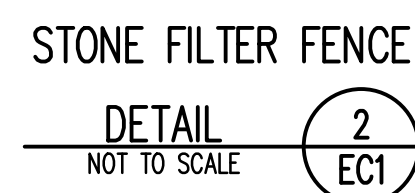
SILT FENCE

DETAIL 1 ECI NOT TO SCALE



ELEVATION

SECTION A-A

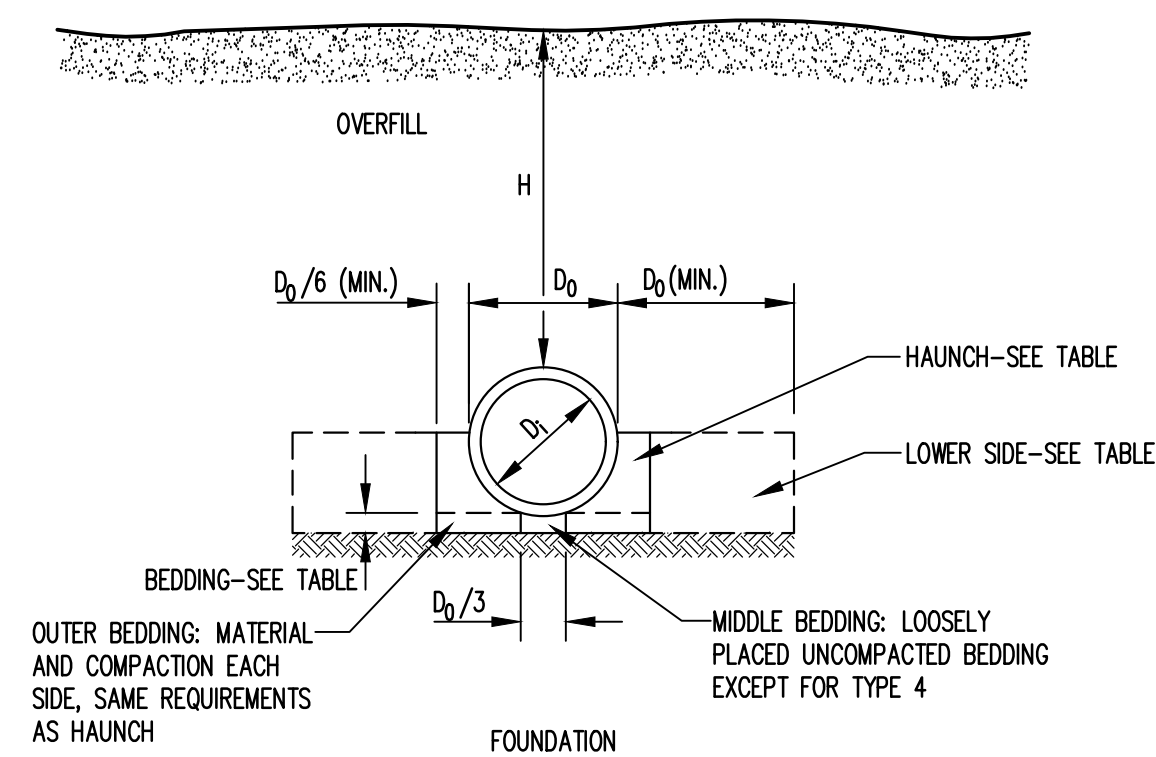


STONE FILTER FENCE

DETAIL 2 ECI NOT TO SCALE

CULVERT SCHEDULE						
NO.	SIZE	LENGTH (FT)	INV. IN (FEET)	INV. OUT (FEET)	SLOPE (%)	REMARKS
C-1	15" RCP (CLASS III)	32	178.3	178.0	1	
C-2	15" RCP (CLASS III)	48	178.4	178.0	1	

STANDARD EMBANKMENT INSTALLATION SOILS AND MINIMUM COMPACTION REQUIREMENTS			
INSTALLATION TYPE	BEDDING THICKNESS	HAUNCH AND OUTER BEDDING	LOWER SIDE
TYPE 1	D ₀ /24" (600mm) MINIMUM, NOT LESS THAN 3" (75mm). IF ROCK FOUNDATION, USE D ₀ /12" (300mm) MINIMUM, NOT LESS THAN 6" (150mm).	95% SW, SP, GW, GP	90% SW, SP, GW, GP; 95% ML, SM, GM OR GC, SC WITH <20% PASSING NO.200 SIEVE; OR 100% CL, MH, SC, GC, CH.
TYPE 2	D ₀ /24" (600mm) MINIMUM, NOT LESS THAN 3" (75mm). IF ROCK FOUNDATION, USE D ₀ /12" (300mm) MINIMUM, NOT LESS THAN 6" (150mm).	90% SW, SP, GW, GP; OR 95% ML, SM, GM OR GC, SC WITH <20% PASSING NO.200 SIEVE	85% SW, SP, GW, GP; 90% ML, SM, GM OR GC, SC WITH <20% PASSING NO.200 SIEVE; OR 95% CL, MH, SC, GC, CH.
TYPE 3	D ₀ /24" (600mm) MINIMUM, NOT LESS THAN 3" (75mm). IF ROCK FOUNDATION, USE D ₀ /12" (300mm) MINIMUM, NOT LESS THAN 6" (150mm).	85% SW, SP, GW, GP; 90% ML, SM, GM OR GC, SC WITH <20% PASSING NO.200 SIEVE; OR 95% CL, MH, SC, GC, CH	85% SW, SP, GW, GP; 90% ML, SM, GM OR GC, SC WITH <20% PASSING NO.200 SIEVE; OR 95% CL, MH, SC, GC, CH.
TYPE 4	NO BEDDING REQUIRED, EXCEPT IF ROCK FOUNDATION, USE D ₀ /12" (300mm) MINIMUM, NOT LESS THAN 6" (150mm).	NO COMPACTION REQUIRED, EXCEPT IF CL, MH, SC, GC, CH USE 85%.	NO COMPACTION REQUIRED, EXCEPT IF CL, MH, SC, GC, CH USE 85%.



(BASED ON AMERICAN CONCRETE PIPE ASSOCIATION RECOMMENDATIONS)

- NOTES:
- COMPACTION AND SOIL SYMBOLS (95% SW) REFER TO SW SOIL MATERIAL (USCS CLASSIFICATION) WITH A MINIMUM STANDARD PROCTOR COMPACTION (ASTM D 698) OF 95%.
 - SOIL IN THE OUTER BEDDING, HAUNCH, AND LOWER SIDE ZONES, EXCEPT WITHIN D₀/3 FROM THE PIPE SPRINGLINE, SHALL BE COMPACTED TO AT LEAST THE SAME COMPACTION AS THE MAJORITY OF THE SOIL IN THE OVERFILL ZONE.
 - SUBTRENCHES:
 - A SUBTRENCH IS DEFINED AS A TRENCH WITH ITS TOP BELOW FINISHED GRADE BY MORE THAN 0.1H OR, FOR ROADWAYS, ITS TOP IS AT AN ELEVATION LOWER THAN 1'(0.3m) BELOW THE BOTTOM OF THE PAVEMENT BASE MATERIAL.
 - THE MINIMUM WIDTH OF A SUBTRENCH SHALL BE 1.33 D₀ OR WIDER IF REQUIRED FOR ADEQUATE SPACE TO ATTAIN THE SPECIFIED COMPACTION IN THE HAUNCH AND BEDDING ZONES.
 - FOR SUBTRENCHES WITH WALLS OF NATURAL SOIL, ANY PORTION OF THE LOWER SIDE ZONE IN THE SUBTRENCH WALL SHALL BE AT LEAST AS FIRM AS AN EQUIVALENT SOIL PLACED TO THE COMPACTION REQUIREMENTS SPECIFIED FOR THE LOWER SIDE ZONE AND AS FIRM AS THE MAJORITY IF THE SOIL IN THE OVERFILL ZONE, OR SHALL BE REMOVED AND REPLACED WITH SOIL COMPACTED TO THE SPECIFIED LEVEL.

CONCRETE PIPE INSTALLATION



CONCRETE PIPE INSTALLATION

DETAIL 3 ECI NOT TO SCALE

FOR BIDDING
NOT FOR CONSTRUCTION

PREPARED FOR:

PREPARED BY: NC LIC. NO. F-1370
SC CDA NO. 031488

SMITH+GARDNER
ENGINEERS

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

SEAL

SEAL

REV.	DATE	DESCRIPTION
2	05/2025	REBID

Electronic files are instruments of service provided by Smith Gardner, Inc. for the convenience of the intended recipients, and no warranty is either expressed or implied. Any reuse or redistribution of this document in whole or part without the written authorization of Smith Gardner, Inc., will be at the sole risk of the recipient. If there is a discrepancy between the electronic files and the signed and sealed hard copies, the hard copies shall govern. Use of any electronic files generated or provided by Smith Gardner, Inc., constitutes an acceptance of these terms and conditions.

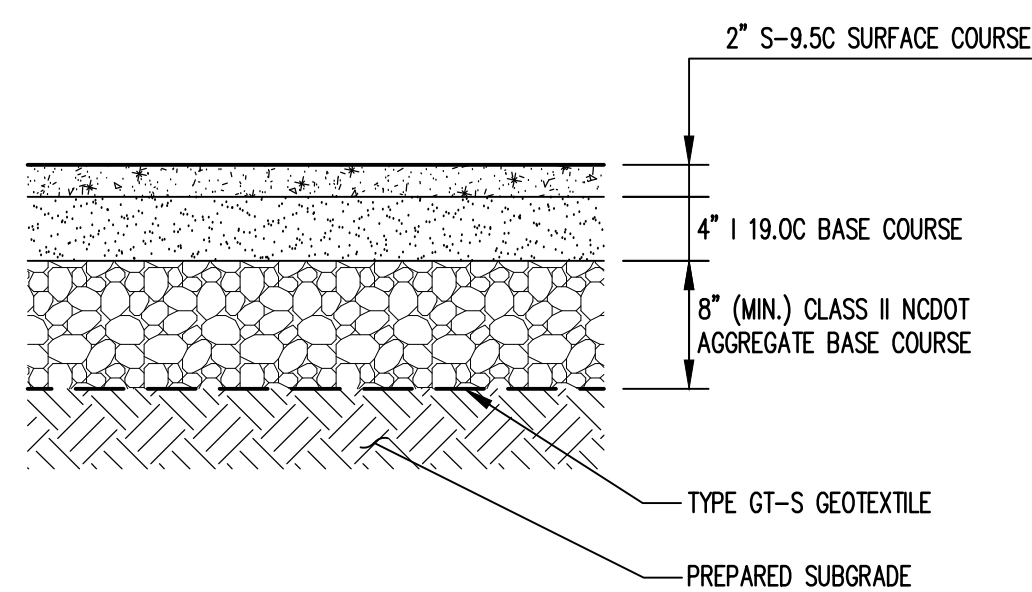
PROJECT TITLE:

PARKTON SOLID WASTE CONVENIENCE CENTER & RECYCLING FACILITY

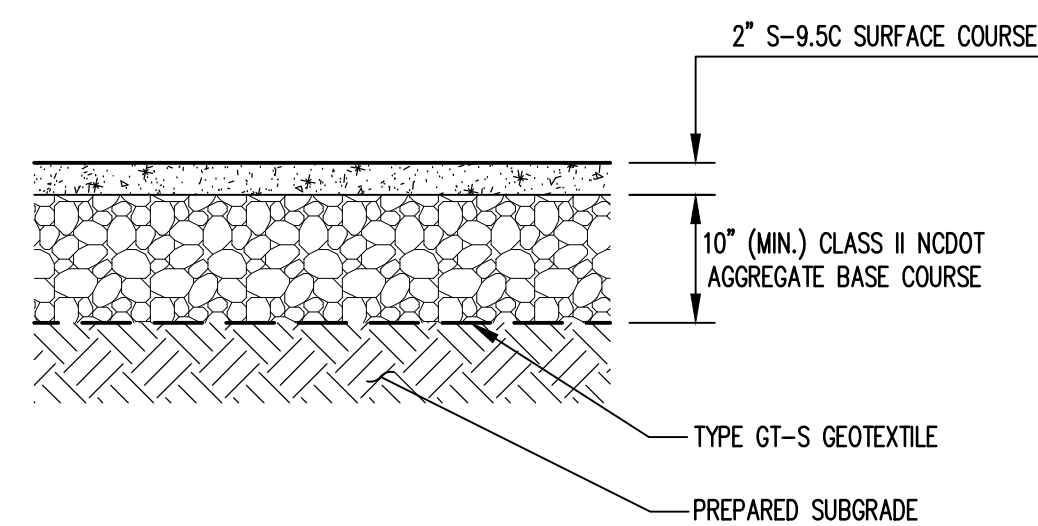
DRAWING TITLE:

EROSION AND SEDIMENTATION CONTROL DETAILS (SHEET 1 OF 2)

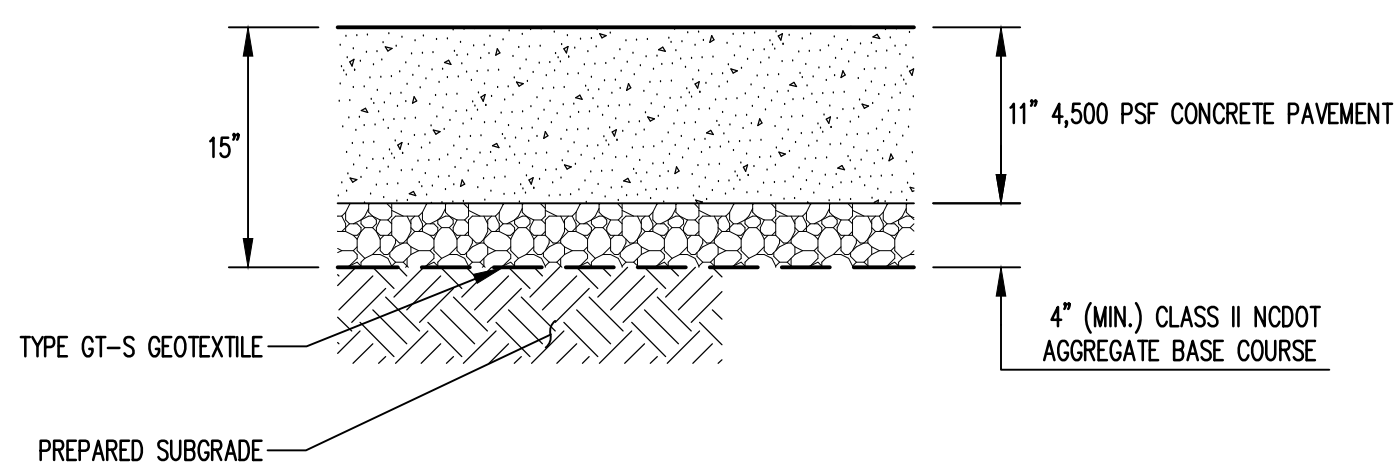
DESIGNED	PROJECT NO.
S.W.H.	CAMDEN 23-1
DRAWN	SCALE
L.H.B.	AS SHOWN
APPROVED	DATE
JEL	JAN. 2024
FILENAME	SHEET NUMBER
CUMBERLAND-D0282	6
DRAWING NUMBER	EC1



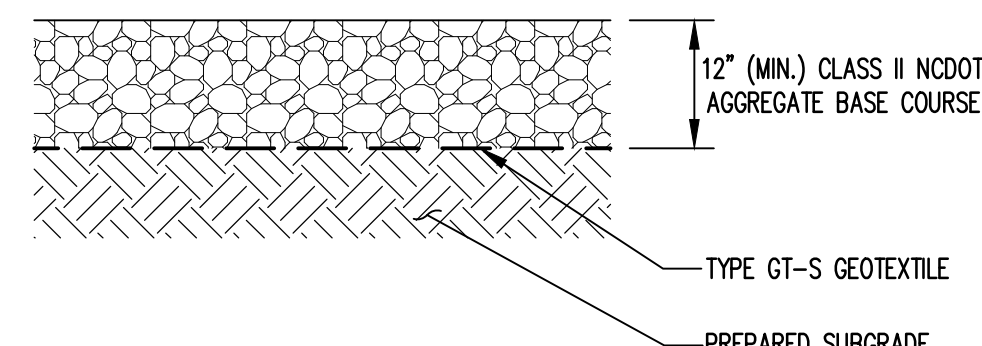
ASPHALT PAVEMENT
DETAIL 1
NOT TO SCALE EC2



ASPHALT PAVEMENT – PARKING AREA
DETAIL 2
NOT TO SCALE EC2



CONCRETE PAVEMENT
DETAIL 3
NOT TO SCALE EC2



GRAVEL PAVEMENT
DETAIL 4
NOT TO SCALE EC2

SEEDING SCHEDULE		
MATERIAL	SEED TYPE	APPLICATION RATE
LIME	-	4,000 LBS/ACRE
FERTILIZER (10-10-10)	-	1,000 LBS/ACRE
SEED	KENTUCKY 31 TALL FESCUE SERICEA LESPEDEZA KOBE LESPEDEZA SEASONAL NURSE CROP	250 LBS/ACRE 30 LBS/ACRE 10 LBS/ACRE SEE NOTE 2
TEMPORARY	SEASONAL NURSE CROP	SEE NOTE 2
MULCH	-	4,000-5,000 LBS/ACRE
BINDER	-	400 GALLONS/ACRE

NOTES:

- APPLICATION RATES AND/OR CHEMICAL ANALYSIS SHALL BE CONFIRMED OR ESTABLISHED BY A SOIL TEST.
- USE SEASONAL NURSE CROP IN ACCORDANCE WITH SEEDING DATES AS STATED BELOW:
APRIL 15 – AUGUST 15 10 LBS/ACRE GERMAN MILLET OR 15 LBS/ACRE SUDANGRASS
AUGUST 16 – APRIL 14 25 LBS/ACRE RYE (GRAIN)
- FROM SEPTEMBER 1 – MARCH 1, USE UNSCARIFIED SERICEA SEED.

SPECIFICATIONS:

1. GENERAL:

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.

2. SOIL PREPARATION:

- LIMIT PREPARATION TO AREAS WHICH WILL BE PLANTED SOON AFTER PREPARATION.
- LOOSEN SURFACE TO MINIMUM DEPTH OF FOUR (4) INCHES.
- REMOVE STONES, STICKS, ROOTS, RUBBISH AND OTHER EXTRANEIOUS MATTER OVER THREE (3) INCHES IN ANY DIMENSION.
- 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 SEEDDED 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.
- DISTRIBUTE FERTILIZER UNIFORMLY OVER AREAS TO BE SEEDDED AT THE RATE SPECIFIED IN THE SEEDING SCHEDULE.
 - USE SUITABLE DISTRIBUTOR.
 - INCORPORATE FERTILIZER INTO SOIL TO DEPTH OF A LEAST TWO (2) INCHES.
 - REMOVE STONES OR OTHER SUBSTANCES WHICH WILL INTERFERE WITH TURF DEVELOPMENT OR SUBSEQUENT MOVING.
- GRADE SEEDDED AREAS TO SMOOTH, EVEN SURFACE WITH LOOSE, UNIFORMLY FINE TEXTURE.
 - ROLL AND RAKE, REMOVE RIDGES AND FILL DEPRESSIONS, AS REQUIRED TO MEET FINISH GRADES.
 - FINE GRADE JUST PRIOR TO PLANTING.

3. SEEDING:

- USE APPROVED MECHANICAL POWER DRIVEN DRILLS OR SEEDERS, MECHANICAL HAND SEEDERS, OR OTHER APPROVED EQUIPMENT.
- DISTRIBUTE SEED EVENLY OVER ENTIRE AREA AT THE RATE SPECIFIED IN THE SEEDING SCHEDULE.
- 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.
- 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 SEEDDED AREAS AGAINST EROSION BY MULCHING OR PLACING ROLLED EROSION CONTROL PRODUCTS, WHERE APPLICABLE.
 - SPREAD MULCH IN A CONTINUOUS BLANKET AT THE RATE SPECIFIED IN THE SEEDING SCHEDULE.
 - IMMEDIATELY FOLLOWING SPREADING MULCH, SECURE WITH EVENLY DISTRIBUTED BINDER AT THE RATE SPECIFIED IN THE SEEDING SCHEDULE.
 - 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.

4. MAINTENANCE:

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

- REGRADE AND REVEGETATE ALL ERODED AREAS UNTIL ADEQUATELY STABILIZED BY GRASS.
- 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.
- REPLANT BARE AREAS USING SAME MATERIALS SPECIFIED.

VEGATIVE STABILIZATION

DETAIL 5
NOT TO SCALE EC2

MAINTENANCE OF EROSION AND SEDIMENTATION FEATURES

SILT FENCE

- INSPECT SEDIMENT FENCES AT LEAST ONCE A WEEK AND AFTER EACH RAINFALL. MAKE ANY REQUIRED REPAIRS IMMEDIATELY.
- SHOULD THE FABRIC OF A SEDIMENT FENCE COLLAPSE, TEAR, DECOMPOSE, OR BECOME INEFFECTIVE, REPLACE IT PROMPTLY.
- 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.
- 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.

CULVERTS, DOWN PIPES, ETC.

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

STONE FILTER FENCE:

- INSPECT STONE FILTER FENCE AT LEAST ONCE A WEEK AND AFTER EACH RAINFALL. MAKE ANY REQUIRED REPAIRS IMMEDIATELY.
- SHOULD THE MESH HARDWARE CLOTH, POST, OR STONE OF A STONE FILTER FENCE COLLAPSE, TEAR, MOVE, REPLACE IT PROMPTLY.
- 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 FILTER FENCE DURING CLEANOUT.
- REPLACE STONE AS NEEDED TO ENSURE DEWATERING. THE STONE HEIGHT MUST BE AT LEAST 12 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.
- 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 PROPERLY STABILIZED.

MAINTENANCE OF EROSION AND SEDIMENTATION CONTROL FEATURES

DETAIL 6
NOT TO SCALE EC2

PREPARED FOR:



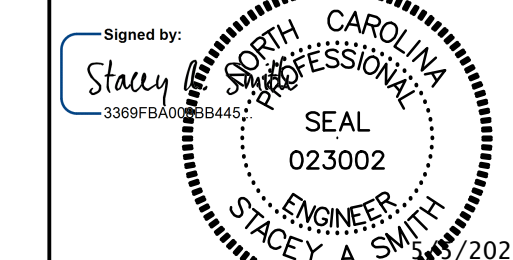
PREPARED BY:

NC LIC. NO. F-1970
SC CDA NO. C01488

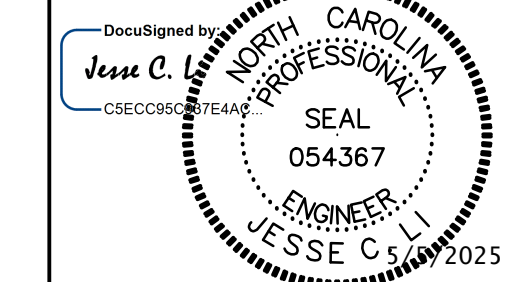
SMITH+GARDNER ENGINEERS

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

SEAL



SEAL



REV. DATE DESCRIPTION

2	05/2025	REBID
---	---------	-------

Electronic files are instruments of service provided by Smith Gardner, Inc. for the convenience of the intended recipients, and no warranty is either expressed or implied. Any reuse or redistribution of this document in whole or part without the written authorization of Smith Gardner, Inc., will be at the sole risk of the recipient. If there is a discrepancy between the electronic files and the signed and sealed hard copies, the hard copies shall govern. Use of any electronic files generated or provided by Smith Gardner, Inc., constitutes an acceptance of these terms and conditions.

PROJECT TITLE:

PARKTON SOLID WASTE CONVENIENCE CENTER & RECYCLING FACILITY

DRAWING TITLE:

EROSION AND SEDIMENTATION CONTROL DETAILS (SHEET 2 OF 2)

DESIGNED: S.W.H. PROJECT NO: CAMDEN 23-1

DRAWN: L.H.B. SCALE: AS SHOWN

APPROVED: JCL DATE: JAN. 2024

FILENAME: CUMBERLAND-D0282

SHEET NUMBER: 7 DRAWING NUMBER: EC2

**FOR BIDDING
NOT FOR CONSTRUCTION**

PART III
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.

Table with 3 columns: Inspect, Frequency (during normal business hours), and Inspection records must include. Rows include: (1) Rain gauge maintained in good working order; (2) E&SC Measures; (3) Stormwater discharge outfalls (SDOs); (4) Perimeter of site; (5) Streams or wetlands onsite or offsite (where accessible); (6) Ground stabilization measures.

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

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 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.

Table with 2 columns: Item to Document and Documentation Requirements. Rows include: (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; (b) A phase of grading has been completed; (c) Ground cover is located and installed in accordance with the approved E&SC plan; (d) The maintenance and repair requirements for all E&SC measures have been performed; (e) Corrective actions have been taken to E&SC measures.

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 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.

Table with 2 columns: Occurrence and Reporting Timeframes (After Discovery) and Other Requirements. Rows include: (a) Visible sediment deposition in a stream or wetland; (b) Oil spills and release of hazardous substances per Item 1(b)-(c) above; (c) Anticipated bypasses [40 CFR 122.41(m)(3)]; (d) Unanticipated bypasses [40 CFR 122.41(m)(3)]; (e) Noncompliance with the conditions of this permit that may endanger health or the environment [40 CFR 122.41(l)(7)].



NCG01 SELF-INSPECTION, RECORDKEEPING AND REPORTING

EFFECTIVE: 04/01/19

CUMBERLAND COUNTY NORTH CAROLINA logo and contact information for SMITH+GARDNER ENGINEERS, including address and phone number.

Professional Engineer seals for Stacy A. Smith and Jesse C. Vesce, both North Carolina Professional Engineers, No. 023002 and 054367 respectively.

Revision table with columns: REV, DATE, DESCRIPTION. Row 1: 2, 05/2025, REBID.

Electronic files are instruments of service provided by Smith Gardner, Inc. for the convenience of the intended recipients...

PROJECT TITLE: PARKTON SOLID WASTE CONVENIENCE CENTER & RECYCLING FACILITY

DRAWING TITLE: GROUND STABILIZATION AND MATERIALS HANDLING PLAN

DESIGNED: S.W.H., PROJECT NO: CAMDEN 23-1, DRAWN: L.H.B., SCALE: AS SHOWN, APPROVED: JCL, DATE: JAN. 2024, SHEET NUMBER: 8, DRAWING NUMBER: NCG01

GROUND STABILIZATION AND MATERIALS HANDLING PRACTICES FOR COMPLIANCE WITH THE NCG01 CONSTRUCTION GENERAL PERMIT

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
<ul style="list-style-type: none"> Temporary 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 	<ul style="list-style-type: none"> Permanent grass seed covered with straw or other mulches and tackifiers 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.
- Apply flocculants at the concentrations specified in the *NC DWR List of Approved PAMS/Flocculants* and in accordance with the manufacturer's instructions.
- Provide ponding area for containment of treated Stormwater before discharging offsite.
- Store flocculants in leak-proof containers that are kept under storm-resistant cover or surrounded by secondary containment structures.

EQUIPMENT AND VEHICLE MAINTENANCE

- Maintain vehicles and equipment to prevent discharge of fluids.
- Provide drip pans under any stored equipment.
- Identify leaks and repair as soon as feasible, or remove leaking equipment from the project.
- Collect all spent fluids, store in separate containers and properly dispose as hazardous waste (recycle when possible).
- 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.
- 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.
- 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.
- Cover waste containers at the end of each workday and before storm events or provide secondary containment. Repair or replace damaged waste containers.
- 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

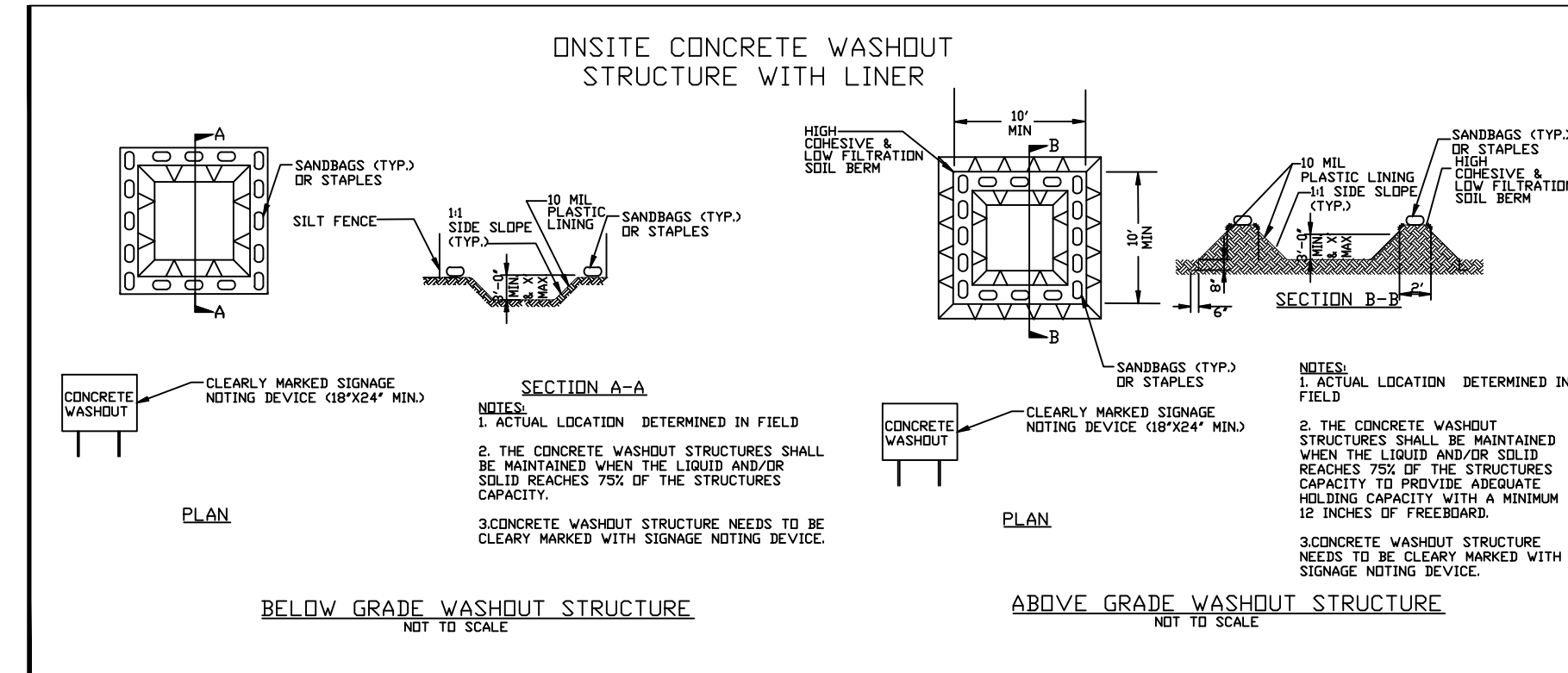
- Do not dump paint and other liquid waste into storm drains, streams or wetlands.
- Locate paint washouts at least 50 feet away from storm drain inlets and surface waters unless no other alternatives are reasonably available.
- Contain liquid wastes in a controlled area.
- Containment must be labeled, 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

- Do not discharge concrete or cement slurry from the site.
- Dispose of, or recycle settled, hardened concrete residue in accordance with local and state solid waste regulations and at an approved facility.
- 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.
- 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.
- 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.
- 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.
- 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.
- 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

- Store and apply herbicides, pesticides and rodenticides in accordance with label restrictions.
- 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.
- 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.
- Do not stockpile these materials onsite.

HAZARDOUS AND TOXIC WASTE

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

PREPARED FOR:

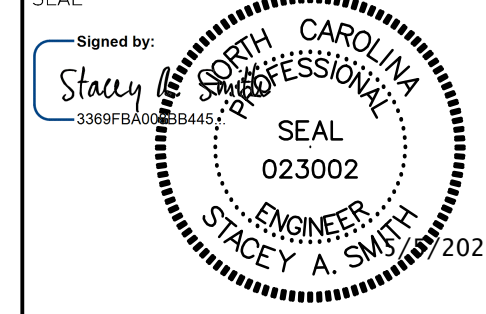


PREPARED BY: N.C. LIC. NO. F-1370
SC. CDA. NO. C01438

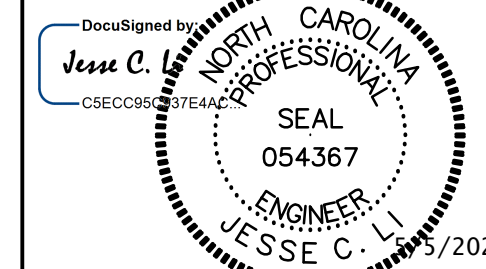
SMITH+GARDNER ENGINEERS

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

SEAL



SEAL



REV. DATE DESCRIPTION

2 05/2025 REBID

Electronic files are instruments of service provided by Smith Gardner, Inc. for the convenience of the intended recipient(s), and no warranty is either expressed or implied. Any reuse or redistribution of this document in whole or part without the written authorization of Smith Gardner, Inc. will be at the sole risk of the recipient. If there is a discrepancy between the electronic files and the signed and sealed hard copies, the hard copies shall govern. Use of any electronic files generated or provided by Smith Gardner, Inc. constitutes an acceptance of these terms and conditions.

PROJECT TITLE:

PARKTON SOLID WASTE CONVENIENCE CENTER & RECYCLING FACILITY

DRAWING TITLE:

SELF-INSPECTION, RECORD KEEPING, AND REPORTING PLAN

DESIGNED: S.W.H. PROJECT NO: CAMDEN 23-1

DRAWN: L.H.B. SCALE: AS SHOWN

APPROVED: JCL DATE: JAN. 2024

FILENAME: CUMBERLAND-D0282

SHEET NUMBER: DRAWING NUMBER:

9 NCG02

NCG01 GROUND STABILIZATION AND MATERIALS HANDLING

EFFECTIVE: 04/01/19