LEGEND

EXISTING	PROPOSED	DESCRIPTION
		LIMITS OF DISTURBANCE
662	(662)	CONTOUR LINE
		STORM DRAIN
	SF	TEMPORARY SILT FENCE
	OSF	ORANGE SAFETY FENCE
	TS	TREE SAVE AREA FENCE
	(IP)	INLET PROTECTION
	(CE)	CONSTRUCTION ENTRANCE
	(TS)	TEMPORARY SEEDING AREA
	(MU)	MULCH/PLANTED AREA
	(ECB)	EROSION CONTROL BLANKET
	(PS)	PERMANENT SEEDING AREA
	(RO)	SILT FENCE ROCK OUTLET
	(CD)	CHECK DAM
		DIVERSION DIKE
	(RR)	RIP-RAP PAD

DISPOSAL OF SEDIMENT:
NOTE: SEDIMENT REMOVED FROM SILT FENCE, INLET PROTECTION, SEDIMENT PONDS AND TRAPS, ETC. DURING THE COURSE OF CONSTRUCTION, SHALL BE PLACED ON THE TOPSOIL STOCKPILE AND RESPREAD AT THE END OF THE PROJECT. SEDIMENT REMOVED FROM THESE ITEMS AFTER THE SITE HAS BEEN SEEDED, SHALL BE HAULED OFF SITE AND DISPOSED OF AT AN APPROVED, LISCENSED SPOIL AREA THAT IS IN FULL COMPLIANCE WITH THE NPDES REGULATIONS. CONTRACTOR IS RESPONSIBLE FOR OBTAINING ANY APPROVALS NECESSARY TO ALLOW FOR THE DISPOSAL OF THIS MATERIAL IF HAULED OFF-SITE.

SOILS ON SITE:
- ApB - APPLING SANDY LOAM, 2 TO 6 PERCENT SLOPES (HYDROLOGIC SOIL GROUP B)
- CeB - CECIL SANDY LOAM, 2 TO 6 PERCENT SLOPES (HYDROLOGIC SOIL GROUP B)
- CeC - CECIL SANDY LOAM, 6 TO 10 PERCENT SLOPES (HYDROLOGIC SOIL GROUP B)
- Wd - WEHADKEE SOILS (HYDROLOGIC SOIL GROUP B/D)

ALWAYS CALL BEFORE YOU DIG

EVERY DIGGING JOB REQUIRES A CALL – EVEN SMALL PROJECTS LIKE PLANTING TREES OR SHRUBS. IF YOU HIT AN UNDERGROUND UTILITY LINE WHILE DIGGING, YOU CAN HARM YOURSELF OR THOSE AROUND YOU, DISRUPT SERVICE TO AN ENTIRE NEIGHBORHOOD AND POTENTIALLY BE RESPONSIBLE FOR FINES AND REPAIR COSTS.

SMART DIGGING MEANS CALLING 811 BEFORE EACH JOB. WHETHER YOU ARE A HOMEOWNER OR A PROFESSIONAL EXCAVATOR, ONE CALL TO 811 GETS YOUR UNDERGROUND UTILITY LINES MARKED FOR FREE.

ACREAGE SUMMARY (IN ACRES)	
TOTAL PROPERTY AREA	2.563
ON-SITE DISTURBED AREA (PARCEL 1)	2.563
OFF-SITE DISTURBED AREA (PARCEL 2 & EAST BUTLER ROAD R/W)	2.709
TOTAL DISTURBED AREA	5.271
IMPERVIOUS AREA PRE-CONSTRUCTION (CALIBER COLLISION & PHASE 2 DEV. ON-SITE ONLY)	0.000
PERVIOUS AREA PRE-CONSTRUCTION (CALIBER COLLISION & PHASE 2 DEV. ON-SITE ONLY)	2.563
IMPERVIOUS AREA POST-CONSTRUCTION (ON-SITE/ PARCEL 1)	1.427
PERVIOUS AREA POST-CONSTRUCTION (ON-SITE/ PARCEL 1)	1.136
PERCENT IMPERVIOUS OF NEW PARCEL 1 (PARCEL 1 – 2.563 TOTAL ACRES)	55.7%
IMPERVIOUS AREA POST-CONSTRUCTION (PARCEL 2 ONLY)	0.119
PERVIOUS AREA POST-CONSTRUCTION (PARCEL 2 ONLY)	4.569
PERCENT IMPERVIOUS OF NEW PARCEL 2 (PARCEL 2 ONLY)	2.5%

"I have placed my signature and seal on the design documents submitted signifying that I accept responsibility for the design of the system. Further, I certify to the best of my knowledge and belief that the design is consistent with the requirements of Title 48, Chapter 14 of the Code of Laws of SC, 1976 as amended, pursuant to Regulation 72-300 et seq. (if applicable), and in accordance with the terms and conditions of SCR100000."

NAME: TODD BURNETT, PE
TITLE: PROJECT MANAGER

SOUTH CAROLINA LICENSED PROFESSIONAL ENGINEER No. 27370 TODD M. BURNETT

12/18/2020

SEAL, SIGNATURE AND DATE

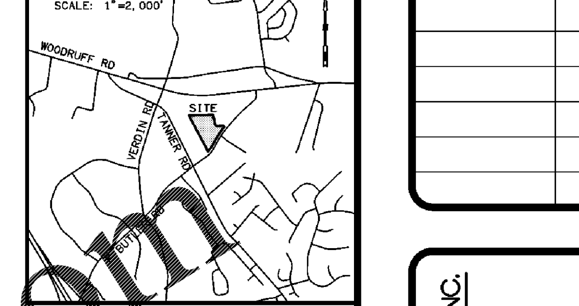
SWPPP CONTACT DURING CONSTRUCTION
CROSS DEVELOPMENT
ATTN:

REFER TO THE EROSION CONTROL DETAIL SHEETS FOR ALL EROSION CONTROL NOTES, MAINTENANCE REQUIREMENTS, ETC.

DRAINAGE BASIN:
BROAD RIVER WATERSHED

RECEIVING WATERS:
UPPER ENOREE RIVER - TRIBUTARY OF THE BROAD RIVER WATERSHED

LOCATION MAP
SCALE: 1"=2,000'



EROSION CONTROL MAINTENANCE PLAN:

1. ALL SLOPES 3:1 AND STEEPER SHALL RECEIVE A CURLEX BLANKET OR APPROVED EQUAL, IN ADDITION TO HYDROSEEDING. TEMPORARY BERMS MAY BE NEEDED DAILY UNTIL ALL SLOPES ARE BROUGHT TO GRADE.
2. EXCEPT AS NOTED BELOW, STABILIZATION SHALL BE INITIATED AS SOON AS PRACTICABLE IN PORTIONS OF THE SITE WHERE CONSTRUCTION ACTIVITIES HAVE TEMPORARILY OR PERMANENTLY CEASED, BUT IN NO CASE MORE THAN SEVEN DAYS AFTER THE CONSTRUCTION ACTIVITY IN THAT PORTION OF THE SITE HAS PERMANENTLY CEASED. WHERE THE INITIATION OF STABILIZATION MEASURES BY THE SEVENTH DAY AFTER CONSTRUCTION ACTIVITY TEMPORARILY OR PERMANENTLY CEASES IS PRECLUDED BY SNOW COVER, STABILIZATION MEASURES SHALL BE INITIATED AS SOON AS CONATIONS ALLOW. WHERE CONSTRUCTION ACTIVITY WILL RESUME ON A PORTION OF THE SITE WITHIN 21 DAYS FROM WHEN ACTIVITY CEASED, (E.G., THE TOTAL TIME PERIOD THAT CONSTRUCTION ACTIVITY IS TEMPORARILY HALTED IS LESS THAN 21 DAYS) THEN STABILIZATION MEASURES DO NOT HAVE TO BE INITIATED ON THAT PORTION OF THE SITE BY THE SEVENTH DAY AFTER CONSTRUCTION ACTIVITIES HAVE TEMPORARILY CEASED. AREAS WHERE THE SEED HAS FAILED TO GERMINATE ADEQUATELY (UNIFORM PERENNIAL VEGETATIVE COVER WITH A DENSITY OF 70%) WITHIN 30 DAYS AFTER SEEDING AND MULCHING MUST BE RE-SEEDED IMMEDIATELY, OR AS SOON AS WEATHER CONDITIONS ALLOW. PERMANENT STABILIZATION FOR ALL DISTURBED AREAS IS TO BE COMPLETE WITHIN 15 WORKING DAYS OR 90 CALENDAR DAYS (WHICHEVER IS SHORTER) FOLLOWING COMPLETION OF CONSTRUCTION. DIVERSIONS MUST BE STABILIZED PRIOR TO BECOMING FUNCTIONAL.
3. ALL SEDIMENT AND EROSION CONTROL DEVICES SHALL BE INSPECTED EVERY SEVEN (7) DAYS OR AFTER EACH RAINFALL OCCURRENCE THAT EXCEEDS ON-HALF (0.5) INCH. DAMAGED OR INEFFECTIVE DEVICES SHALL BE REPAIRED AND REPLACED AS NECESSARY.
4. PROVIDE SILT FENCE AND/OR OTHER EROSION CONTROL DEVICES, AS MAY BE REQUIRED, TO CONTROL SOIL EROSION DURING UTILITY CONSTRUCTION. ALL DISTURBED AREAS SHALL BE CLEANED, GRADED, AND STABILIZED WITH GRASSING IMMEDIATELY AFTER THE UTILITY INSTALLATION.
5. ALL EROSION CONTROL DEVICES SHALL BE PROPERLY MAINTAINED DURING ALL PHASES OF CONSTRUCTION UNTIL THE COMPLETION OF ALL CONSTRUCTION ACTIVITIES AND ALL DISTURBED AREAS HAVE BEEN STABILIZED. ADDITIONAL EROSION CONTROL DEVICES MAY BE REQUIRED DURING CONSTRUCTION IN ORDER TO CONTROL EROSION AND/OR OFF-SITE SEDIMENTATION. ALL TEMPORARY CONTROL DEVICES SHALL BE REMOVED ONCE CONSTRUCTION IS COMPLETE AND THE SITE IS STABILIZED.
6. THE CONTRACTOR MUST TAKE NECESSARY ACTION TO MINIMIZE THE TRACKING OF MUD ONTO THE PAVED ROADWAY FROM CONSTRUCTION AREAS. THE CONTRACTOR SHALL DAILY REMOVE MUD/SOIL FROM PAVEMENT, AS MAY BE REQUIRED.
7. TEMPORARY DIVERSION BERMS AND/OR DITCHES WILL BE PROVIDED AS NEEDED DURING CONSTRUCTION TO PROTECT WORK AREAS FROM UPSLOPE RUNOFF AND/OR TO DIVERT SEDIMENT LADEN WATER TO APPROPRIATE TRAPS OR STABLE OUTLETS.
8. EROSION CONTROL MEASURES WILL BE MAINTAINED AT ALL TIMES. IF FULL IMPLEMENTATION OF THE APPROVED PLAN DOES NOT PROVIDE FOR EFFECTIVE EROSION CONTROL, ADDITIONAL EROSION AND SEDIMENT CONTROL MEASURES SHALL BE IMPLEMENTED TO CONTROL OR TREAT THE SEDIMENT SOURCE.
9. CONTRACTOR SHALL PROVIDE EROSION CONTROL BLANKETS ON ALL SLOPES STEEPER THAN 3:1. CONTRACTOR HAS THE OPTION TO UTILIZE SOD IN LIEU OF AN EROSION CONTROL BLANKET (TYPICAL).

TEMPORARY SKIMMER BASIN
- DRAINAGE AREA: 10.56 AC
- STORAGE REQUIRED: 38,016 CF
- STORAGE PROVIDED: 144,708 CF
- SURFACE AREA REQUIRED: 21,867 SF (PER THE 10-YR STORM EVENT)
- SURFACE AREA PROVIDED: 30,467 SF (AREA @ ELEV. 957 FT)
- BOTTOM ELEVATION: 950 FT
- TOP OF BERM: 957 FT
- CLEAN-OUT VOL: 19,008 CF (PER 2 x THE REQUIRED STORAGE, RE: SWM REPORT)
- CLEAN-OUT ELEV.: 952.1 FT
- SKIMMER: 8" W/ 6.8" Ø ORIFICE
- TEMP/PERM SEED ALL SLOPES

INSTALL SKIMMER AT EXISTING ORIFICE INVERT ELEVATION, INV. 950.47. ONCE SEDIMENT BASIN IS REMOVED GROUT SKIMMER OPENING & ENSURE WATERTIGHT SEAL.

NO JURISDICTIONAL WETLANDS OR STREAMS LOCATED OR IMMEDIATELY ADJACENT TO SITE

CONTRACTOR TO LOCATE PORT-O-JOHNS, CONSTRUCTION TRAILER, ETC. ON SITE MAP TO BE MAINTAINED ON-SITE

CONTRACTOR TO REFERENCE LANDSCAPE PLAN FOR INFORMATION ON STABILIZATION TYPE FOR SEED, SOD, AND MULCH.

CONTRACTOR SHALL USE EXTREME CAUTION WHILE WORKING UNDERNEATH OVERHEAD POWER LINES. ANY DAMAGE TO THE EXISTING UTILITY POLES AND UTILITY LINES SHALL BE REPAIRED/REPLACED AT THE CONTRACTOR'S EXPENSE.

SEQUENCE OF CONSTRUCTION:

PHASE I
1. CONTRACTOR SHALL OBTAIN ALL APPROPRIATE PERMITS REQUIRED FOR DEMOLITION AND LAND DISTURBANCE ACTIVITIES.
2. CONTRACTOR SHALL CONTACT GREENVILLE COUNTY PLANNING & DEVELOPMENT SERVICES TO SCHEDULE A PRECONSTRUCTION MEETING AT (864) 467-4610.
3. REMOVE THE MINIMAL AMOUNT OF TREES AND SITE FEATURES IN ORDER TO INSTALL STABILIZED CONSTRUCTION EXIT AND SWPPP ENTRANCE SIGN.
4. INSTALL SILT FENCE AND ORANGE SAFETY FENCE ON AND AROUND THE SITE (DISTURB ONLY THOSE AREAS NECESSARY TO INSTALL SILT FENCE). ENSURE DRAINAGE IS DIRECT TOWARDS SILT FENCE.
5. INSTALL INLET PROTECTION AT EXISTING STORM PIPES AROUND PERIMETER OF THE SITE.
6. GRADE OUT EXISTING DRY DETENTION POND FOR ADDITIONAL AREA AND BEGIN PROCESS FOR CONVERTING THE EXISTING POND TO THE SEDIMENT BASIN.
7. INSTALL BAFFLES IN SEDIMENT BASIN. BEGIN PROCESS FOR CONVERTING EXISTING OUTLET STRUCTURE INTO THE "CONSTRUCTION PHASE" STATE. EXISTING WEIR SHALL BE GROUTED AND THE 6" ORIFICE SHALL BE UPDATED TO ALLOW FOR INSTALLATION OF SKIMMER. RAISE THE TOP OF THE OUTLET STRUCTURE TO PROPOSED ELEVATION PER THE POND SECTION DETAIL SHEET. REFERENCE SKIMMER AND SEDIMENT BASIN NOTES ON "EROSION CONTROL PH I" SHEET OF PLANS. SEE "POND SECTION DETAIL" SHEET FOR ADDITIONAL INFORMATION. CONTRACTOR SHALL CONTACT GREENVILLE COUNTY AND ENGINEER OR RECORD FOR PHASE I INSPECTION.
8. INSTALL DIVERSION DIKES AND CHECK DAMS PER PLANS AND AS NEEDED TO DIRECT ALL RUNOFF TO THE EXISTING STORM POND.
9. REMOVE THE REMAINING EXISTING SITE FEATURES AS SHOWN ON PLAN.
10. INSTALL TEMPORARY STOCKPILE AREA (PROVIDE TEMPORARY SEEDING AND INSTALL SILT FENCE AROUND STOCKPILE).
11. INSTALL CONCRETE WASHOUT.
12. INSTALL TEMPORARY SEEDING AND MULCH STABILIZATION TO ALL AREAS WHERE WORK WILL BE CEASED FOR A PERIOD OF MORE THAN 14 DAYS.

PHASE II
13. CONTINUALLY INSPECT AND MAINTAIN ALL BMP'S. REPAIR AND REPLACE ANY BMP'S AS NEEDED.
14. BEGIN GENERAL GRADING OF SITE. APPLY PERMANENT SEEDING TO ALL AREAS AS SOON AS THEY ARE COMPLETE. DO NOT WAIT UNTIL JOB COMPLETION TO PERMANENTLY SEED DISTURBED AREAS. ADD EROSION CONTROL BLANKETS AS NEEDED FOR ALL AREAS WITH SLOPES THAT EXCEED 3:1.
15. INSTALL SANITARY SEWER MAIN EXTENSION AND SERVICE LATERAL FOR BUILDING. CAP AND MARK LOCATION FOR FUTURE CONNECTION.
16. COMPLETE OFF-SITE ROADWAY IMPROVEMENTS AND WORK WITHIN THE RIGHT-OF-WAY (RE: SHEETS RH-R9).
17. COMPLETE GRADING OF BUILDING PAD AND BEGIN BUILDING CONSTRUCTION.
18. INSTALL REMAINING UTILITIES, STORM SEWERS, AND STORM DRAIN STRUCTURES. INSTALL INLET PROTECTION MEASURES AS EACH CATCH BASIN IS INSTALLED. INSTALL RIPRAP IMMEDIATELY ONCE ENERGY DISSIPATOR HEADWALL IS INSTALLED.
19. INSTALL CURB AND GUTTER AND FINE GRADE PARKING AREAS. STONE BASE SHALL BE INSTALLED IN ALL PAVED AREAS AS SOON AS PRACTICABLE. CONSTRUCTION EXIT SHALL BE REMOVED ONLY ONCE THE BUILDING PAD, PARKING LOT, AND DRIVEWAY HAVE BEEN STABILIZED WITH STONE BASE.
20. PAVE SITE AND INSTALL APPROPRIATE INLET PROTECTION DEVICES FOR PAVED AREAS AS WORK PROGRESSES.
21. COMPLETE BUILDING CONSTRUCTION, SIDEWALKS, PLANTINGS, ETC.
22. REMOVE BAFFLES AND SKIMMER FROM OUTLET STRUCTURE, AND BRING OUTLET STRUCTURE TO ITS FINAL STATE ONCE SITE HAS BEEN STABILIZED. SEE POND DETAIL SHEET FOR ADDITIONAL INFORMATION.
23. REMOVE TEMPORARY BMP'S AS SOON AS THEIR CONTRIBUTING DRAINAGE AREAS HAVE BEEN STABILIZED. SEED AND MULCH ANY DISTURBANCE FROM REMOVAL OF TEMPORARY BMP'S.
24. CONTACT SCDHEC FOR FINAL INSPECTION AND OWNER FOR COORDINATION OF FILING THE NOTICE OF TERMINATION (NOT).

EROSION CONTROL PH 2

0 40' 80'
SCALE 1" = 40'

REVISIONS	BY

FREELAND and KAUFFMAN, INC.
*Engineers * Landscape Architects*
209 West Stone Avenue
Greenville, South Carolina 29609
864-233-5497

BID SET NOT FOR CONSTRUCTION

SOUTH CAROLINA FREELAND & KAUFFMAN, INC. No. C00995 CERTIFICATE OF AUTHORIZATION

CALIBER COLLISION
1233 E. BUTLER ROAD
GREENVILLE, SC 29607

CROSS DEVELOPMENT CC FIVE FORKS, LLC.
4336 MARSH RIDGE
CARROLLTON, TX 75010
TEL: (214) 614-8252

DRAWN: BAC
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DATE: 01/04/2021
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