

REVISIONS	BY

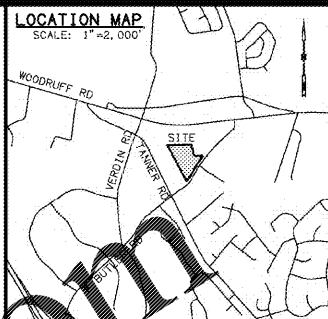
FREELAND and KAUFFMAN, INC.
Engineers • Landscape Architects
209 West Stone Avenue
Greenville, South Carolina 29609
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BD SET
NOT FOR
CONSTRUCTION



CALIBER COLLISION
1233 E. BUTLER ROAD
GREENVILLE, SC 29607
CROSS DEVELOPMENT CC FIVE FORKS, LLC.
4936 MARCH RIDGE
CARROLLTON, TX 75010
TEL: (214) 814-8252

DRAWN	EAC
CHECKED	TMB
DATE	01/04/2021
SCALE	
DRAWING	



"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 at sea (if applicable), and in accordance with the terms and conditions of SCR100000."
NAME: TODD BURNETT, PE
TITLE: PROJECT MANAGER
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 ENCKE RIVER - TRIBUTARY OF THE BROAD RIVER WATERSHED

EROSION CONTROL MAINTENANCE PLAN:

- ALL SLOPES 3:1 AND STEEPER SHALL RECEIVE A CURLEX BLANKET OR APPROVED EQUAL IN ADDITION TO SEEDING. TEMPORARY BERMERS MAY BE NEEDED DAILY UNTIL ALL SLOPES ARE BROUGHT TO GRAD.
- EROSION CONTROL MEASURES SHALL BE INITIATED AS SOON AS PRACTICABLE. PORTIONS OF THE SITE WHERE CONSTRUCTION ACTIVITIES HAVE TEMPORARILY OR PERMANENTLY CEASED, BUT IN NO CASE MORE THAN SEVEN DAYS AFTER 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 PRECEDDED BY SNOW COVER, STABILIZATION MEASURES SHALL BE INITIATED AS SOON AS CONDITIONS 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 90 DAYS AFTER SEEDING AND MULCHING MUST BE RE-SEEDING 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.
- ALL SEDIMENT AND EROSION CONTROL DEVICES SHALL BE INSPECTED EVERY SEVEN (7) DAYS OR AFTER EACH RAINFALL OCCURRENCE THAT EXCEEDS (0.5) INCH. DAMAGED OR INEFFECTIVE DEVICES SHALL BE REPAIRED AND REPLACED AS NECESSARY.
- 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.
- 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.
- 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.
- 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.
- 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.
- 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: 1036 AC
• STORAGE REQUIRED: 38,006 CF
• STORAGE PROVIDED: 44,708 CF
• SURFACE AREA REQUIRED: 2067 SF PER THE 10-YR STORM EVENT
• SURFACE AREA PROVIDED: 30,467 SF (AREA * ELEV. 907 FT)
• BOTTOM ELEVATION: 950 FT
• TOP OF BEAM: 957 FT
• CLEAN-OUT VOL.: 18,008 OF (PER 2 x THE REQUIRED STORAGE, RE: SWM REPORT)
• CLEAN-OUT ELEV.: 952 FT
• SKIMMER: 6" W/ 6.8" Ø ORIFICE
• TEMP/PERM SEED ALL SLOPES

SEQUENCE OF CONSTRUCTION:

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| PHASE 1 <ol style="list-style-type: none">CONTRACTOR SHALL OBTAIN ALL APPROPRIATE PERMITS REQUIRED FOR DEMOLITION AND LAND DISTURBANCE ACTIVITIES.CONTRACTOR SHALL CONTACT GREENVILLE COUNTY PLANNING & DEVELOPMENT SERVICES TO SCHEDULE A PRE-CONSTRUCTION MEETING AT 864-407-4600.REMOVE THE MINIMAL AMOUNT OF TREES AND SITE FEATURES IN ORDER TO INSTALL STABILIZED CONSTRUCTION EXIT AND SWPPP ENTRANCE SIGN.INSTALL SILT FENCE AND ORANGE SAFETY FENCE ON AND AROUND THE SITE. DISTURBED ONLY THOSE AREAS NECESSARY TO INSTALL SILT FENCE. ENSURE DRAINAGE IS DIRECT TOWARDS SILT FENCE.INSTALL INLET PROTECTION AT EXISTING STORM PIPES AROUND PERIMETER OF THE SITE.GRADE OUT EXISTING DRY DETENTION POND FOR ADDITIONAL AREA AND BEGIN PROCESS FOR CONVERTING THE EXISTING POND TO THE SEDIMENT BASIN.INSTALL BARRIERS IN SEDIMENT BASIN. BEGIN PROCESS FOR CONVERTING EXISTING OUTLET STRUCTURE INTO THE "CONSTRUCTION PHASE" STATE. EXISTING WEIR SHALL BE GRADED 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.INSTALL DIVERSION DIKES AND CHECK DAMS PER PLANS AND AS NEEDED TO DIRECT ALL RUNOFF TO THE EXISTING STORM POND.REMOVE THE REMAINING EXISTING SITE FEATURES AS SHOWN ON PLAN.INSTALL TEMPORARY STOCKPILE AREA PROVIDE TEMPORARY SEEDING AND INSTALL SILT FENCE AROUND STOCKPILE.INSTALL CONCRETE WASHOUT.INSTALL TEMPORARY SEEDING AND MULCH STABILIZATION TO ALL AREAS WHERE WORK WILL BE CEASED FOR A PERIOD OF MORE THAN 14 DAYS. | PHASE 2 <ol style="list-style-type: none">CONTINUALLY INSPECT AND MAINTAIN ALL BMP'S. REPAIR AND REPLACE ANY BMP'S AS NEEDED.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.INSTALL SANITARY SEWER MAIN EXTENSION AND SERVICE LATERAL FOR BUILDING. CAP AND MARK LOCATION FOR FUTURE CONNECTION.COMPLETE OFF-SITE ROADWAY IMPROVEMENTS AND WORK WITHIN THE RIGHT-OF-WAY (SEE SHEETS R-209).COMPLETE GRADING OF BUILDING PAD AND BEGIN BUILDING CONSTRUCTION.INSTALL REMAINING UTILITIES, STORM SEWERS, AND STORM DRAIN STRUCTURES. INSTALL INLET PROTECTION MEASURES AS EACH CATCH BASIN IS INSTALLED. INSTALL BIRAP IMMEDIATELY ONCE ENERGY DISSIPATOR HEADWALL IS INSTALLED.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.PAVE SITE AND INSTALL APPROPRIATE INLET PROTECTION DEVICES FOR PAVED AREAS AS WORK PROGRESSES.COMPLETE BUILDING CONSTRUCTION, SIDEWALKS, PLANTINGS, ETC.REMOVE BARRIERS 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.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.CONTACT SOHARD FOR FINAL INSPECTION AND OWNER FOR COORDINATION OF FILING THE NOTICE OF TERMINATION (NOT). |
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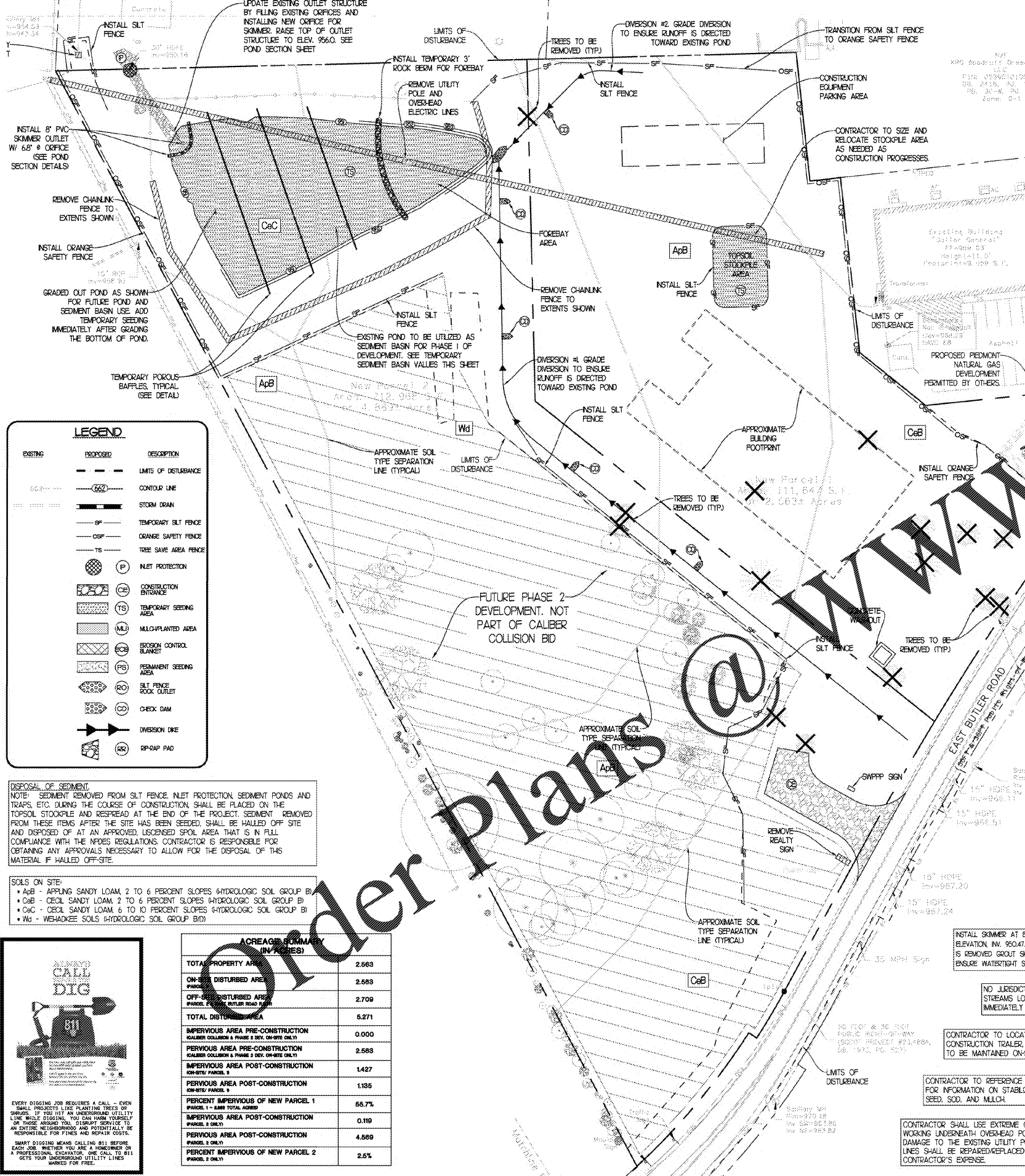
INSTALL SKIMMER AT EXISTING ORIFICE INVERT ELEVATION: INV. 950.01. ONCE SEDIMENT BASIN IS REMOVED GROUT SKIMMER OPENING & ENSURE WATER-TIGHT SEAL.

NO JURISDICTIONAL WETLANDS OR STREAMS LOCATED OR IMMEDIATELY ADJACENT TO SITE.

CONTRACTOR TO LOCATE PORT-O-JOHN'S, 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.

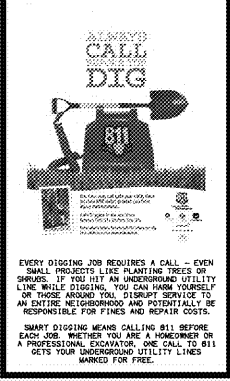


LEGEND

EXISTING	PROPOSED	DESCRIPTION
(Symbol)	(Symbol)	LIMITS OF DISTURBANCE
(Symbol)	(Symbol)	CONTROL LINE
(Symbol)	(Symbol)	STORM DRAIN
(Symbol)	(Symbol)	TEMPORARY SILT FENCE
(Symbol)	(Symbol)	ORANGE SAFETY FENCE
(Symbol)	(Symbol)	TREE SAVE AREA FENCE
(Symbol)	(Symbol)	INLET PROTECTION
(Symbol)	(Symbol)	CONSTRUCTION ENTRANCE
(Symbol)	(Symbol)	TEMPORARY SEEDING AREA
(Symbol)	(Symbol)	MULCH PLANTED AREA
(Symbol)	(Symbol)	EROSION CONTROL BLANKET
(Symbol)	(Symbol)	PERMANENT SEEDING AREA
(Symbol)	(Symbol)	SILT FENCE ROCK OUTLET
(Symbol)	(Symbol)	CHECK DAM
(Symbol)	(Symbol)	DIVERSION DIKE
(Symbol)	(Symbol)	SF-SWP 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 RESPAVED AT THE END OF THE PROJECT. SEDIMENT REMOVED FROM THESE ITEMS AFTER THE SITE HAS BEEN SEEDING, SHALL BE HALLED OFF-SITE AND DISPOSED OF AT AN APPROVED, LICENSED SPOIL AREA THAT IS IN FULL CONFORMANCE WITH THE APDES REGULATIONS. CONTRACTOR IS RESPONSIBLE FOR OBTAINING ANY APPROVALS NECESSARY TO ALLOW FOR THE DISPOSAL OF THIS MATERIAL IF HALLED OFF-SITE.

SOILS ON SITE:
• ApB - APPING SANDY LOAM, 2 TO 6 PERCENT SLOPES (HYDROLOGIC SOIL GROUP B)
• CcB - CECL SANDY LOAM, 2 TO 6 PERCENT SLOPES (HYDROLOGIC SOIL GROUP B)
• CcC - CECL SANDY LOAM, 6 TO 10 PERCENT SLOPES (HYDROLOGIC SOIL GROUP B)
• Wc - WEHAOKEE SOILS (HYDROLOGIC SOIL GROUP B/D)



ACREAGE SUMMARY (IN ACRES)

TOTAL PROPERTY AREA	2.663
ON-SITE DISTURBED AREA	2.668
OFF-SITE DISTURBED AREA (BUTLER ROAD)	2.709
TOTAL DISTURBED AREA	5.271
IMPERVIOUS AREA PRE-CONSTRUCTION (CALIBER COLLISION & PHASE 2 SITE, ON-SITE ONLY)	0.000
PERVIOUS AREA PRE-CONSTRUCTION (CALIBER COLLISION & PHASE 2 SITE, ON-SITE ONLY)	2.668
IMPERVIOUS AREA POST-CONSTRUCTION (ON-SITE PARCEL 1)	1.427
PERVIOUS AREA POST-CONSTRUCTION (ON-SITE PARCEL 1)	1.135
PERCENT IMPERVIOUS OF NEW PARCEL 1	55.7%
IMPERVIOUS AREA POST-CONSTRUCTION (PARCEL 2 ONLY)	0.119
PERVIOUS AREA POST-CONSTRUCTION (PARCEL 2 ONLY)	4.860
PERCENT IMPERVIOUS OF NEW PARCEL 2	2.5%

EROSION CONTROL PH I

