

CODE	PRACTICE	DETAIL	MAP SYMBOL	DESCRIPTION
Cd	CHECK DAM			A SMALL TEMPORARY BARRIER OR DAM CONSTRUCTED ACROSS A SMALL DRAINAGE DITCH OR AREA OF CONCENTRATED FLOW.
Ch	CHANNEL STABILIZATION			IMPROVING, CONSTRUCTING OR STABILIZING AN OPEN CHANNEL, EXISTING STREAM, OR DITCH.
Cc	CONSTRUCTION EXT			A CRUSHED STONE PAD LOCATED AT THE CONSTRUCTION SITE EXT TO PROVIDE A PLACE FOR REMOVING MUD FROM TIRES THEREBY PROTECTING PUBLIC STREETS.
Cr	CONSTRUCTION ROAD STABILIZATION			A TRAVEL WAY CONSTRUCTED AS PART OF A CONSTRUCTION PLAN INCLUDING ACCESS ROADS, SUBDIVISION ROADS, PARKING AREAS, AND OTHER ON-SITE VEHICLE TRANSPORTATION ROUTES.
Dc	STREAM DIVERSION CHANNEL			A TEMPORARY CHANNEL CONSTRUCTED TO CONVEY FLOW AROUND A CONSTRUCTION SITE WHILE A PERMANENT STRUCTURE IS BEING CONSTRUCTED.
Di	DIVERSION			AN EARTH CHANNEL OR DIKE LOCATED ABOVE, BELOW, OR ACROSS A SLOPE TO DIVERT RUNOFF. THIS MAY BE A TEMPORARY OR PERMANENT STRUCTURE.
Dn1	TEMPORARY DOWN DRAIN STRUCTURE			A FLEXIBLE CONDUIT OF HEAVY-DUTY FABRIC OR OTHER MATERIAL DESIGNED TO SAFELY CONDUCT SURFACE RUNOFF DOWN A SLOPE. THIS IS TEMPORARY AND INEXPENSIVE.
Dn2	PERMANENT DOWN DRAIN STRUCTURE			A PAVED CHUTE, PIPE, SECTIONAL CONDUIT OR SIMILAR MATERIAL DESIGNED TO SAFELY CONDUCT SURFACE RUNOFF DOWN A SLOPE.
Fr	FILTER RING			A TEMPORARY STONE BARRIER CONSTRUCTED AT STORM DRAIN INLETS AND POND OUTLETS.
Ga	GABIONS			ROCK FILTER BASKETS WHICH ARE HAND-PLACED INTO POSITION FORMING SOIL STABILIZING STRUCTURES.
Gr	GRADE STABILIZATION STRUCTURE			PERMANENT STRUCTURES INSTALLED TO PROTECT NATURAL OR ARTIFICIAL CHANNELS OR WATERWAYS WHERE OTHERWISE THE SLOPE WOULD BE SUFFICIENT FOR THE RUNNING WATER TO FORM GULLIES.
Rd	ROCK FILTER DAM			A PERMANENT OR TEMPORARY STONE FILTER DAM INSTALLED ACROSS SMALL STREAMS OR DRAINAGEWAYS.
Re	RETAINING WALL			A WALL INSTALLED TO STABILIZE CUT AND FILL SLOPES WHERE MAXIMUM PERMISSIBLE SLOPES ARE NOT OBTAINABLE. EACH SITUATION WILL REQUIRE SPECIAL DESIGN.
Rt	RETROFITTING			A DEVICE OR STRUCTURE PLACED IN FRONT OF A PERMANENT STORM WATER DETENTION POND OUTLET STRUCTURE TO SERVE AS A TEMPORARY SEDIMENT FILTER.
Sd1	SEDIMENT BARRIER			A BARRIER TO PREVENT SEDIMENT FROM LEAVING THE CONSTRUCTION SITE. IT MAY BE SANDBAGS, BALES OF STRAW OR HAY, BRUSH, LOGS AND POLES, GRAVEL, OR A SEDIMENT FENCE.
Sd2	INLET SEDIMENT TRAP			AN IMPROVING AREA CREATED BY EXCAVATING AROUND A STORM DRAIN DROP INLET. THE EXCAVATED AREA WILL BE FILLED AND STABILIZED ON FILLED AND STABILIZED ON COMPLETION OF CONSTRUCTION ACTIVITIES.
Sd3	TEMPORARY SEDIMENT BASIN			A BASIN CREATED BY EXCAVATION OR A DAM ACROSS A WATERWAY. THE SURFACE WATER RUNOFF IS TEMPORARILY STORED ALLOWING THE BULK OF THE SEDIMENT TO DROP OUT.
Sr	TEMPORARY STREAM CROSSING			A TEMPORARY BRIDGE OR CULVERT-TYPE STRUCTURE PROTECTING A STREAM OR WATER COURSE FROM DAMAGE BY CROSSING CONSTRUCTION EQUIPMENT.
St	STORM DRAIN OUTLET PROTECTION			A PAVED OR SHORT SECTION OF RIP RAP CHANNEL AT THE OUTLET OF A STORM DRAIN SYSTEM PREVENTING EROSION FROM THE CONCENTRATED RUNOFF.
Su	SURFACE ROUGHENING			A ROUGH SOIL SURFACE WITH HORIZONTAL DEPRESSIONS ON A CONTOUR OR SLOPES LEFT IN A ROUGHENED CONDITION AFTER GRADING.
Tp	TOP SOILING			THE PRACTICE OF STRIPPING OFF THE MORE FERTILE SOIL, STORING IT, THEN SPREADING IT OVER THE DISTURBED AREA AFTER COMPLETION OF CONSTRUCTION ACTIVITIES.
Wt	VEGETATED WATERWAY OR STORM WATER CONVEYANCE CHANNEL			PAVED OR VEGETATED WATER OUTLETS FOR DIVERSIONS, TERRACES, BERMS, DICES OR SIMILAR STRUCTURES.

CODE	PRACTICE	DETAIL	MAP SYMBOL	DESCRIPTION
Bf	BUFFER ZONE			A STRIP OF UNDISTURBED ORIGINAL VEGETATION, ENHANCED OR RESTORED EXISTING VEGETATION OR THE RE-ESTABLISHMENT OF VEGETATION SURROUNDING AN AREA OF DISTURBANCE OR REDUCING STREAMS.
Cs	COASTAL DUNE STABILIZATION (WITH VEGETATION)			PLANTING VEGETATION ON DUNES THAT ARE DENuded, ARTIFICIALLY CONSTRUCTED, OR RE-NOURISHED.
Ds1	DISTURBED AREA STABILIZATION (WITH MULCHING ONLY)			ESTABLISHING TEMPORARY PROTECTION FOR DISTURBED AREAS WHERE SEEDINGS MAY NOT HAVE A SUITABLE GROWING SEASON TO PRODUCE AN EROSION RETARDING COVER.
Ds2	DISTURBED AREA STABILIZATION (WITH TEMPORARY SEEDING)			ESTABLISHING A TEMPORARY VEGETATIVE COVER WITH FAST GROWING SEEDINGS ON DISTURBED AREAS.
Ds3	DISTURBED AREA STABILIZATION (WITH PERMANENT VEGETATION)			ESTABLISHING PERMANENT VEGETATIVE COVER SUCH AS TREES, SHRUBS, VINES, GRASSES, SOO, OR LEGUMES ON DISTURBED AREAS.
Ds4	DISTURBED AREA STABILIZATION (WITH SOODING)			A PERMANENT VEGETATIVE COVER USING SOODS ON HIGHLY ERODIBLE OR CRITICALLY ERODED LANDS.
Du	DUST CONTROL ON DISTURBED AREAS			CONTROLLING SURFACE AND AIR MOVEMENT OF DUST ON CONSTRUCTION SITE, ROADWAYS AND SIMILAR SITES.
Mb	EROSION CONTROL MATTING AND BLANKETS			THE INSTALLATION OF A PROTECTIVE COVERING (BLANKET) OR SOIL STABILIZATION MAT ON A PREPARED PLANTING AREA OF A STEEP SLOPE, CHANNEL, OR SHORELINE.
Pm	POLYACRYLAMIDE (PAM)			THE LAND APPLICATION OF PRODUCT CONTAINING ANIONIC POLYACRYLAMIDE (PAM) AS TEMPORARY SOIL BINDING AGENTS TO REDUCE SOIL EROSION.
Sb	STREAM BANK STABILIZATION (USING PERMANENT VEGETATION)			THE USE OF READILY AVAILABLE NATIVE PLANT MATERIALS TO MAINTAIN AND ENHANCE STREAM BANKS, OR TO PREVENT OR RESTORE AND REPAIR SMALL STREAM BANK EROSION PROBLEMS.
Tb	TACKIFIERS AND BINDERS			SUBSTANCE USED TO ANCHOR STRAW OR HAY MULCH BY CAUSING THE ORGANIC MATERIAL TO BIND TOGETHER.

	TENTATIVE ACTIVITY SCHEDULE						
	AUG	SEPT	OCT	NOV	DEC	JAN	
CLEARING AND GRUBBING							
CONSTRUCTION EXT (Cc)							
SEDIMENT BARRIER (Sd1)							
INLET SEDIMENT TRAP (Sd2)							
STORM DRAIN INLET/OUTLET PROTECTION (St)							
DISTURBED AREA STABILIZATION (WITH TEMPORARY SEEDING) (Ds2)							
DISTURBED AREA STABILIZATION (WITH PERMANENT VEGETATION) (Ds3)							
GRADING							
PAVING							
TREE PROTECTION INSTALLATION							
MAINTENANCE OF ES&PC BMPs							

SEEDING RATES FOR TEMPORARY & PERMANENT COVER						
MONTH	TEMPORARY COVER	RATES PER ACRE		PERMANENT COVER	RATES PER ACRE	
		SEEDED ALONE	ADDED TO MIX		SEEDED ALONE	ADDED TO MIX
JANUARY	RYEGRASS RYE	40 lbs. 3 bu.	— .5 bu.	UNHULLED BERMUDEA SERICEA LESPEDEZA ¹	10 lbs. 75 lbs.	6 lbs. —
FEBRUARY	ANNUAL LESPEDEZA RYEGRASS	40 lbs. 3 bu.	— .5 bu.	UNHULLED BERMUDEA SERICEA LESPEDEZA ¹	10 lbs. 75 lbs.	8 lbs. —
MARCH	WEEDING LOVEGRASS ANNUAL LESPEDEZA	4 lbs. 40 lbs.	4 lbs. 40 lbs.	PENSACOLA BAHIA HULLED BERMUDEA	60 lbs. 10 lbs.	30 lbs. 6 lbs.
APRIL	WEEDING LOVEGRASS SUDANGRASS BROWN TOP MILLET	4 lbs. 80 lbs. 40 lbs.	4 lbs. 80 lbs. 40 lbs.	PENSACOLA BAHIA WEEDING LOVEGRASS HULLED BERMUDEA SERICEA LESPEDEZA ¹	60 lbs. 8 lbs. 10 lbs. 60 lbs.	30 lbs. 6 lbs. 6 lbs. —
MAY	WEEDING LOVEGRASS SUDANGRASS BROWN TOP MILLET	4 lbs. 60 lbs. 50 lbs.	4 lbs. 60 lbs. 50 lbs.	PENSACOLA BAHIA WEEDING LOVEGRASS HULLED BERMUDEA SERICEA LESPEDEZA ¹	60 lbs. 8 lbs. 10 lbs. 60 lbs.	30 lbs. 6 lbs. 6 lbs. —
JUNE	PEARL MILLET SUDANGRASS BROWN TOP MILLET	50 lbs. 60 lbs. 40 lbs.	50 lbs. 60 lbs. 40 lbs.	PENSACOLA BAHIA HULLED BERMUDEA	60 lbs. 10 lbs.	30 lbs. 6 lbs.
JULY	PEARL MILLET SUDANGRASS BROWN TOP MILLET	50 lbs. 60 lbs. 40 lbs.	50 lbs. 60 lbs. 40 lbs.	PENSACOLA BAHIA	60 lbs.	30 lbs.
AUGUST	PEARL MILLET RYE	50 lbs. 3 bu.	50 lbs. 3 bu.	PENSACOLA BAHIA	60 lbs.	30 lbs.
SEPTEMBER	RYEGRASS OATS WHEAT	40 lbs. 4 bu. 3 bu.	40 lbs. 4 bu. 3 bu.	SERICEA LESPEDEZA ¹	75 lbs.	—
OCTOBER	RYEGRASS OATS WHEAT RYE BARLEY	3 bu. 40 lbs. 3 bu. 4 bu. 4 bu.	3 bu. 40 lbs. 3 bu. 4 bu. 4 bu.	SAME AS SEPTEMBER	SAME AS SEPTEMBER	SAME AS SEPTEMBER
NOVEMBER	SAME AS OCTOBER	SAME AS OCTOBER	SAME AS OCTOBER	SAME AS SEPTEMBER	SAME AS SEPTEMBER	SAME AS SEPTEMBER
DECEMBER	SAME AS OCTOBER	SAME AS OCTOBER	SAME AS OCTOBER	SAME AS SEPTEMBER	SAME AS SEPTEMBER	SAME AS SEPTEMBER

NOTES:
1. UNSCARIFIED
2. SCARIFIED
3. CENTIPEDE SOO CAN BE USED AS PERMANENT COVER ANYTIME EXCEPT JUNE THROUGH OCTOBER.
4. LISTED IN ORDER OF PREFERENCE.
5. ALL PERMANENT GRASS PLANTINGS SHALL BE MULCHED.

Ds3 DISTURBED AREA STABILIZATION (With Permanent Vegetation)

ESTABLISHING A PERMANENT VEGETATIVE COVER AS A DISTURBED AREA.
- TO STABILIZE THE SOIL
- TO REDUCE DAMAGE FROM SEDIMENT AND RUNOFF TO DOWNSTREAM AREAS
- TO IMPROVE WILDLIFE HABITAT AND VISUAL RESOURCES

Ds2-Ds3 NOTES:

- Ds2 - 1. FOR TEMPORARY GRASSING SEE SEEDING RATES FOR TEMPORARY & PERMANENT COVER. THE TEMPORARY GRASSING SHALL BE APPLIED WITHIN 14 DAYS OF DISTURBANCE.
2. A 6-12-12 FERTILIZER SHALL BE USED ON THE DISTURBED AREA OF Ds2 AND SHALL BE APPLIED AT A RATE OF 1500 LBS. PER AC.
- Ds3 - 1. FOR PERMANENT GRASSING SEE SEEDING RATES FOR TEMPORARY & PERMANENT COVER. IF A HYDRAULIC SEEDER IS TO BE USED, REFER TO THE EROSION AND SEDIMENT CONTROL MANUAL FOR FURTHER DIRECTION ON THE METHOD OF APPLICATION.
2. A 6-12-12 FERTILIZER SHALL BE USED ON THE DISTURBED AREA OF Ds3 AND SHALL BE APPLIED AT RATE OF 1500 LBS. PER AC.
3. DRIED STRAW OR DRY HAY SHALL BE USED FOR MULCHING AND APPLIED AT A RATE OF 2 TONS PER ACRE. MULCH WILL BE SPREAD UNIFORMLY WITHIN 24 HOURS AFTER SEEDING. THE MULCH MAY BE SPREAD BY BLOWER-TYPE SPREADING EQUIPMENT, OTHER SPREADING EQUIPMENT OR BY HAND. MULCH SHALL BE APPLIED TO COVER 75% OF THE SOIL SURFACE.

SPECIAL NOTES:

- 1. THE ESCAPE OF SEDIMENT FROM THE SITE SHALL BE PREVENTED BY THE INSTALLATION OF EROSION CONTROL AND SEDIMENT CONTROL MEASURES AND PRACTICES SHALL OCCUR PRIOR TO OR CONCURRENT WITH LAND-DISTURBING ACTIVITIES.
- 2. EROSION CONTROL MEASURES SHALL BE MAINTAINED AT ALL TIMES. IF FULL IMPLEMENTATION OF THE APPROVED PLAN DOES NOT PROVIDE EFFECTIVE EROSION CONTROL, ADDITIONAL EROSION AND SEDIMENT CONTROL MEASURES SHALL BE IMPLEMENTED TO CONTROL OR TREAT THE SEDIMENT SOURCE.
- 3. THE PURPOSE OF THE TEMPORARY DIVERSION CHANNELS ARE TO DIVERT SITE RUNOFF INTO THE TEMPORARY SEDIMENT BASINS. THESE CHANNELS MAY NOT BE SHOWN IN EXACTLY THE CORRECT LOCATIONS ON THE PLAN. THE ON-SITE CONSTRUCTION MANAGER SHALL USE BEST MANAGEMENT PRACTICES TO LOCATE/RE-LOCATE THESE CHANNELS AS NEEDED OR AS GRADING CHANGES TOPOGRAPHY.
- 4. ANY DISTURBED AREA LEFT EXPOSED FOR A PERIOD GREATER THAN 14 DAYS SHALL BE STABILIZED WITH MULCH OR TEMPORARY SEEDING.

NOTES:

- 1. SILT FENCE SHALL BE INSTALLED PRIOR TO THE COMMENCEMENT OF ANY LAND DISTURBING ACTIVITIES. THE SILT FENCE SHALL BE INSTALLED AS NECESSARY TO PREVENT ANY SEDIMENT FROM LEAVING THE LOT.

Ds2 DISTURBED AREA STABILIZATION (WITH TEMPORARY SEEDING)



* ≤ 12 MONTHS OR UNTIL ESTABLISHMENT OF FINISHED GRADE OR PERMANENT VEGETATION

* SITE PREPARATION
- GRADING AND SHAPING
- SEEDING PREPARATION
- APPLY LIME AND FERTILIZER
- PLANT SEEDING, SELECT SPECIES BY SEASON AND REGION
- APPLY MULCHING MATERIAL IF NEEDED
- IRRIGATE IF NEEDED BUT NOT AT RATE TO CAUSE EROSION

* PLANTING DATES DEPEND ON SPECIES AND REGION (MOUNTAIN, PIEDMONT OR COASTAL)

SPECIES	SEEDING RATES FOR TEMPORARY SEEDINGS		PLANTING DATES	
	RATE PER 1,000 SQ. FT.	RATE PER ACRE	PIEDMONT	COASTAL
RYEGRASS	0.9 POUNDS	40-50 LBS.	8/1-12/1	8/15-1/1
ANNUAL LESPEDEZA	0.9 POUNDS	40 LBS.	3/1-4/1	2/1-3/1
WEEDING LOVEGRASS	0.1 POUNDS	4-6 LBS.	3/15-8/1	3/1-8/15

* ALL SEEDING NUMBERS ARE ALONE FOR MIXTURE NUMBER SEE MANUAL FOR EROSION AND SEDIMENT TABLES 6-24.1 PAGES 6-134 - 6-136.

* UNUSUAL SITE CONDITIONS MAY REQUIRE HEAVIER SEEDING RATES. SEEDING DATES MAY NEED TO BE ALTERED TO FIT TEMPERATURE VARIATIONS AND LOCAL CONDITIONS.

* APPLICABLE ON HIGHLY ERODIBLE OR SEVERELY ERODED AREAS, SOMETIMES CALLED "CRITICAL AREAS" INCLUDING:
- CUT OR FILL SLOPES
- EARTH SPILLWAYS
- BORROW AREAS
- CHANNEL BANKS
- BERMS
- ROADSIDES
- SPILL AREAS
- GULLIED LANDS

SLOPE	SEEDING
3:1 OR FLATTER	2" x 4" DEEP
2:1 TO 3:1	4" TO 6" DEEP
2:1 OR STEEPER	DEPRESSION EVERY 6"-8" WITH HAND TOOL

* HAVE SOIL ANALYZED FOR LIME AND FERTILIZER RATE
* MULCH ALL SLOPES STEEPER THAN 3:1 AND IN BOTTOM OF SPILLWAYS AND ON ROAD BANKS
* ANCHOR MULCH IMMEDIATELY

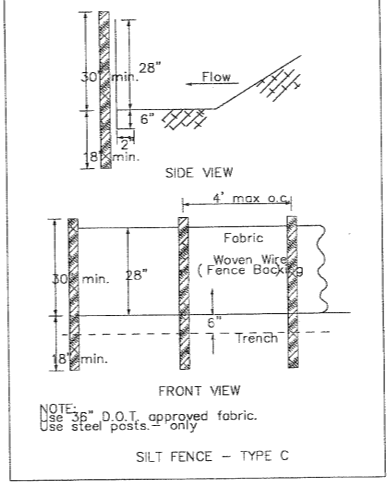


Figure 6-20.6
SILT FENCE - TYPE C

EROSION AND SEDIMENT NARRATIVE NOTES

- DESCRIPTION: THE SITE IS LOCATED ON TYBEE ISLAND. THE EXISTING SITE IS CURRENTLY DEVELOPED. THE INTENT OF THIS PLAN IS TO OBTAIN THE PERMIT TO CONSTRUCT 12' X 36' CONCRETE PAD.
- ZONING: THE PRESENT ZONING CLASSIFICATION FOR THIS SITE IS M-D. PROPERTY ID #: 4-0024-01-005
- SOILS, TOPOGRAPHIC AND DRAINAGE INFORMATION: FOR INFORMATION REGARDING THE SOILS, TOPOGRAPHIC AND DRAINAGE INFORMATION PLEASE REFERENCE THE SOIL EROSION PLANS OF THE CONSTRUCTION DRAWINGS.
- VEGETATION: THE EXISTING SITE IS CURRENTLY CLEARED.
- BUFFER REQUIREMENTS: AS REQUIRED BY ARTICLES 15 AND 16 OF SECTION 12-7-6 OF THE "GEORGIA EROSION AND SEDIMENTATION ACT OF 1975" THERE IS ESTABLISHED A 25 FOOT BUFFER ALONG THE BANKS OF ALL STATE WATERS, AS MEASURED HORIZONTALLY FROM THE POINT WHERE VEGETATION HAS BEEN WRESTED BY NORMAL STREAM FLOW OR WAVE ACTION, EXCEPT WHERE THE DIRECTOR DETERMINES TO ALLOW A VARIANCE THAT IS AT LEAST AS PROTECTIVE OF THE NATURAL RESOURCES AND THE ENVIRONMENT, WHERE OTHERWISE ALLOWED BY THE DIRECTOR PURSUANT TO OCGA 12-2-8, OR WHERE A DRAINAGE STRUCTURE OR ROADWAY DRAINAGE STRUCTURE MUST BE CONSTRUCTED, PROVIDED THAT ADEQUATE EROSION CONTROL MEASURES ARE INCORPORATED IN THE PROJECT PLANS AND SPECIFICATIONS AND ARE IMPLEMENTED.
- EROSION CONTROL PROGRAM: CLEARING WILL BE KEPT TO AN ABSOLUTE MINIMUM. VEGETATION AND MULCH WILL BE APPLIED TO APPLICABLE AREAS IMMEDIATELY AFTER VEGETATION AND MULCH WILL BE APPLIED TO APPLICABLE AREAS IMMEDIATELY AFTER GRADING IS COMPLETED. GRAVEL WILL BE APPLIED TO PARKING AREAS AND ROADWAYS AS SOON AS GRADING IS COMPLETED. LAND WILL BE SCHEDULED TO LIMIT EXPOSURE OF BARE SOILS TO EROSION ELEMENTS. STORM WATER MANAGEMENT STRUCTURES WILL BE EMPLOYED TO PREVENT EROSION IN AREAS OF CONCENTRATED WATER FLOWS. EROSION AT THE EXITS OF ALL STORM WATER STRUCTURES WILL BE PREVENTED BY THE INSTALLATION OF STORM DRAIN OUTLET PROTECTION DEVICES. STORM DRAIN OUTLET PROTECTION DEVICES.
- SEDIMENT CONTROL PROGRAM: SEDIMENT CONTROL WILL BE ACCOMPLISHED BY THE INSTALLATION OF 140 LINEAR FEET (TOTAL) OF "C" SILT FENCE. SEDIMENT STORAGE WILL BE ACCOMPLISHED BY UTILIZING THE FIRST ROW OF SILT FENCE.
- STANDARDS AND SPECIFICATIONS: ALL DESIGNS WILL CONFORM TO AND ALL WORK WILL BE PERFORMED IN ACCORDANCE WITH THE STANDARDS AND SPECIFICATIONS OF THE PUBLICATION ENTITLED, "MANUAL FOR EROSION AND SEDIMENT CONTROL IN GEORGIA".
- SAFETY PROTECTION: CONSTRUCTION ACTIVITIES WILL BE PERFORMED IN COMPLIANCE WITH ALL APPLICABLE LAWS, RULES AND REGULATIONS.

- MAINTENANCE PROGRAM: SEDIMENT AND EROSION CONTROL MEASURES WILL BE INSPECTED DAILY. ANY DAMAGES OBSERVED WILL BE REPAIRED BY THE END OF THAT DAY. CLEANUP OF SEDIMENT CONTROL STRUCTURES WILL BE ACCOMPLISHED IN ACCORDANCE WITH THE SPECIFICATIONS AND SEDIMENT DISPOSAL ACCOMPLISHED BY SPREADING ON THE SITE. BARRIERS WILL REMAIN IN PLACE UNTIL SEDIMENT CONTRIBUTING AREAS ARE STABILIZED. THE SEDIMENT FENCES, AND THE BARRIERS WILL THEN BE REMOVED AND THE AREAS OCCUPIED BY THESE DEVICES WILL THEN BE VEGETATED. GUIDELINES FOR THE MAINTENANCE OF ESTABLISHED VEGETATION WILL BE PROVIDED TO THE OWNER WHEN ALL DISTURBED AREAS ARE STABILIZED.
- 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.
- MAINTENANCE OF ALL SOIL EROSION AND SEDIMENTATION CONTROL PRACTICES, WHETHER TEMPORARY OR PERMANENT, SHALL BE AT ALL TIMES THE RESPONSIBILITY OF THE OWNER.
- THE TOTAL PROJECT ACREAGE FOR THIS PHASE OF DEVELOPMENT IS 1.07 ACRES. THE TOTAL DISTURBED AREA IN THIS PHASE IS 0.012 ACRES.

14. THIS PROPERTY IS LOCATED IN ZONE VE, A SPECIAL FLOOD HAZARD AREA AS DETERMINED BY FEDERAL EMERGENCY MANAGEMENT AGENCY (FEMA) FLOOD INSURANCE RATE MAP, COMMUNITY NO. 130030, PANEL 0194 F, MAP DATED: 09-26-2008

15. "I CERTIFY THAT THE PERMITTEE'S EROSION, SEDIMENTATION AND POLLUTION CONTROL PLAN PROVIDES FOR AN APPROPRIATE AND COMPREHENSIVE SYSTEM OF BEST MANAGEMENT PRACTICES REQUIRED BY THE GEORGIA WATER QUALITY CONTROL ACT AND THE DOCUMENT "MANUAL FOR EROSION AND SEDIMENT CONTROL IN GEORGIA" (MANUAL) PUBLISHED BY THE STATE SOIL AND WATER CONSERVATION COMMISSION AS OF JANUARY 1 OF THE YEAR IN WHICH THE LAND-DISTURBING ACTIVITY WAS PERMITTED, PROVIDES FOR THE SAMPLING OF THE RECEIVING WATER(S) OR THE SAMPLING OF THE STORM WATER OUTFALLS AND THAT THE DESIGNED SYSTEM OF BEST MANAGEMENT PRACTICES AND SAMPLING METHODS IS EXPECTED TO MEET THE REQUIREMENTS CONTAINED IN THE GENERAL NPDES PERMIT NO. GAR 100003."

- THERE ARE STATE WATERS ON THIS SITE (LAZARETTO CREEK, ADJACENT).
- ALL NON-EXEMPT ACTIVITIES AS SET FORTH BY PART IV OF THE EROSION, SEDIMENT AND POLLUTION CONTROL PLAN (I) AND (II) OF THE GENERAL PERMIT SHALL NOT BE CONDUCTED WITHIN THE 25' OR 50' UNDISTURBED STREAM BUFFERS AS MEASURED FROM THE POINT OF WRESTED VEGETATION WITHOUT FIRST ACQUIRING THE NECESSARY VARIANCES AND PERMITS.

18. THE POINT OF CONTACT FOR CIVIL SITE WORK FOR THIS PROJECT IS:

TRAVIS G. BURKE P.E.
KERN-COLEMAN & COMPANY
P.O. BOX 15179
SAVANNAH, GA 31416
(912) 354-8400

19. DEVELOPER
LAZARETTO DEVELOPMENT, LLC
215 E. 45 TH ST
SAVANNAH, GA 31405
(912) 232-8000

20. TWENTY-FOUR HOUR CONTACT RESPONSIBLE FOR EROSION AND SEDIMENT CONTROL:
TRAVIS BURKE, 912-354-8400

21. ACCORDING TO NRCS SOIL DELINEATION MAPS, THE EXISTING SOIL TYPE IS CAPERS TYPE "D" HYDROLOGIC SOIL GROUP.

22. PROJECT RECEIVING WATERS: LAZARETTO CREEK, WHICH FLOWS DIRECTLY TO THE ATLANTIC OCEAN. LAZARETTO CREEK IS ADJACENT TO THE SITE.

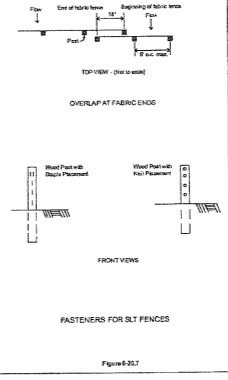


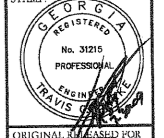
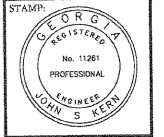
Figure 6.02.7

UTILITIES PROTECTION CENTER

CALL THREE WORKING DAYS BEFORE YOU DIG THROUGHOUT GEORGIA 1-800-282-7411

NOT FOR CONSTRUCTION
RELEASED FOR CONSTRUCTION
DATE: BY:

Kern-Coleman & Co., LLC.
Consulting Engineers • Land Surveyors • Land Planners
Architects • Landscape Architects • Environmental Scientists
7. Mail Court 01469 P.O. Box 15179, Savannah, Georgia 31416
Telephone: (912) 354-8400 Fax: (912) 354-8688 Email: info@kern-coleman.com



ORIGINAL RELEASED FOR CONSTRUCTION DATE:

NO	DATE	REVISION

PLANS OF IMPROVEMENTS TO TYBEE MARINA LAZARETTO DEVELOPMENT, LLC.

EROSION NOTES AND DETAILS

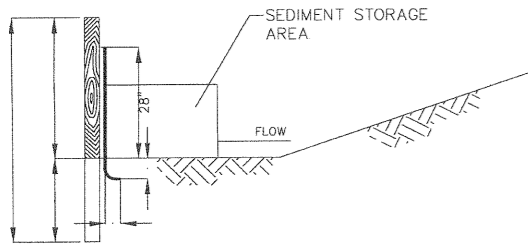
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DATE: 7/30/09
DRAWN BY: NPM
CHECKED BY: TGB
SHRIFT NO:



Thu, 30 Jul 2009 - 5:09pm mcdmzdr
DRAWING DATE: 1/19/07 Reg. EROSION_29-09.dwg

RATIONALE FOR USING SILT FENCE SEDIMENT STORAGE

NOTE: SILTFENCE WILL BE USED FOR SEDIMENT STORAGE ON THIS SITE BECAUSE THERE IS INADEQUATE ROOM FOR A SEDIMENT BASIN ON SITE. ADDITIONALLY, THE DISTURBED AREA (0.012 AC) WILL NOT GENERATE ENOUGH ERODIBLE SEDIMENT TO JUSTIFY A SEDIMENT BASIN.



SEDIMENT BASIN

THE SILT FENCING SHALL BE UTILIZED TO FORM THE SEDIMENT BASIN FOR THIS SITE. SINCE THERE IS APPROXIMATELY 70 LF OF SILT FENCE ON THIS SITE, THE STORAGE CAN BE ACHIEVED BY ALLOWING SEDIMENT TO ACCUMULATE TO A MAXIMUM DEPTH OF 1.17' (1/2 THE HEIGHT OF THE SILT FENCE) AND A MAXIMUM OF 5' AWAY FROM THE SILT FENCE.

0.012 ACRES x 67 CY/ACRE = 0.82 CY REQUIRED STORAGE
 0.82 CY x 27 CF/CY = 22 CF REQUIRED STORAGE
 70' x 1.17' x 5' = 410 CF PROVIDED STORAGE
 410 CF > 22 CF THEREFORE, THERE IS ADEQUATE STORAGE PROVIDED

SITE SOIL SERIES: CAPERS TYPE "D"

SOIL EROSION AND SEDIMENTATION CONTROL NOTES:

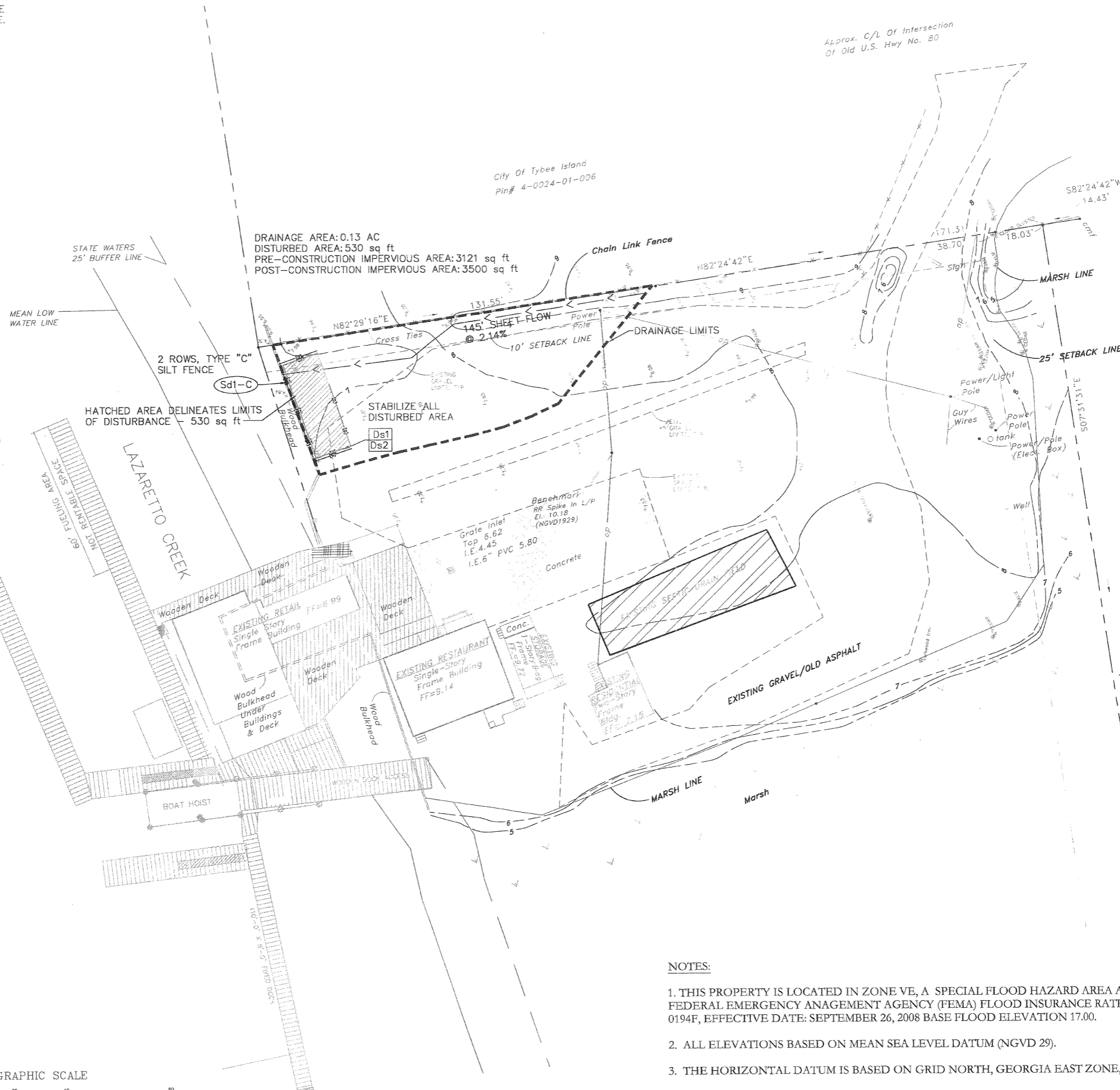
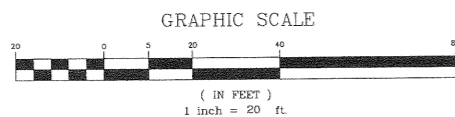
1. THE ESCAPE OF SEDIMENT FROM THE SITE SHALL BE PREVENTED BY THE INSTALLATION OF EROSION AND SEDIMENT CONTROL MEASURES AND PRACTICES PRIOR TO, OR CONCURRENT WITH LAND-DISTURBING ACTIVITIES.
2. EROSION CONTROL MEASURES WILL BE MAINTAINED AT ALL TIMES. IF FULL IMPLEMENTATION OF THE APPROVED PLAN DOES NOT PROVIDE FOR EFFECTIVE EROSION CONTROL, ADDITIONAL EROSION AND SEDIMENT CONTROL MEASURES WILL BE IMPLEMENTED TO CONTROL OR TREAT THE SEDIMENT SOURCE.
3. ANY DISTURBED AREA LEFT EXPOSED FOR A PERIOD OF GREATER THAN 14 DAYS SHALL BE STABILIZED WITH MULCH OR TEMPORARY SEEDING.
4. ALL GRASSING SHALL BE IN ACCORDANCE WITH THE GEORGIA DEPARTMENT OF TRANSPORTATION SPECIFICATIONS 1983 EDITION.
5. CONTRACTOR SHOULD BE RESPONSIBLE FOR NOTIFYING THE ENGINEER SEVEN DAYS PRIOR TO CONSTRUCTION. IF CONTRACTOR FAILS TO NOTIFY ENGINEER A \$1,000.00 FINE SHOULD BE ASSESSED.
6. HYDRAULIC SEEDING SHALL INCLUDE THE SEED, FERTILIZER, & WOOD CELLULOSE OR WOOD PULP FIBER MULCH WITH WATER. APPLY IN A SLURRY UNIFORMLY OVER THE AREA AT A RATE OF 500 LBS/ACRE.
7. THERE ARE STATE WATERS ON THIS SITE (LAZARETTO CREEK, ADJACENT).
8. DRAINAGE FLOWS SOUTH THROUGH EXISTING DITCHES TO ADJACENT WETLANDS.
9. THE OPERATOR WILL ENSURE THAT ALL MEASURES AND FACILITIES FOR CONTROL OF EROSION AND SEDIMENTATION DURING SITE PREPARATION, OPERATION, AND/OR RECLAMATION ACTIVITIES SHALL ADHERE TO THE FOLLOWING:
10. ALL EROSION AND SEDIMENTATION CONTROL MEASURES OR FACILITIES, WHETHER TEMPORARY OR PERMANENT, SHALL BE CONTINUOUSLY MAINTAINED BY THE OPERATOR, SO AS TO BE EFFECTIVE.
11. SEDIMENT IN SURFACE RUNOFF WATER SHALL BE TRAPPED BY USE OF DEBRIS BASINS, SEDIMENT BASINS, SILT TRAPS, SEDIMENT BARRIERS OR SIMILAR STRUCTURES.
12. PERMANENT VEGETATION SHALL BE INSTALLED AS SOON AS POSSIBLE. TEMPORARY VEGETATION AND/OR MULCH SHALL BE EMPLOYED WHERE NECESSARY TO PROTECT EXPOSED CRITICAL AREAS UNTIL PERMANENT VEGETATION OR STABILIZATION IS ATTAINED.
13. NATURAL VEGETATION SHALL BE RETAINED, PROTECTED AND SUPPLEMENTED WHEREVER FEASIBLE TO PROVIDE FOR NATURAL BUFFER AREAS.
14. DIVERSIONS, DIKES, AND BERMS SHALL BE EMPLOYED TO RETAIN, DIRECT AND CONTROL SURFACE WATER RUNOFF FROM AFFECTED AREAS INTO SEDIMENT CONTROL STRUCTURES.
15. ALL SURFACE WATER DISCHARGES SHALL BE CONTROLLED AND RELEASED AT A NONEROSIVE VELOCITY ONTO STABILIZED AREAS OR INTO STABILIZED CHANNELS.
16. NRCS REVIEW AND DISTRICT APPROVAL OF THIS ES&P PLAN DOES NOT EXEMPT THE PERMITTEE FROM OTHER PERMITS REQUIRED.

24 HOUR CONTACT PERSON:
 TRAVIS BURKE, KEM-COLEMAN & CO., LLC
 PHONE NUMBER: (912) 351-8400

TRAVIS G. BURKE
 OSWCC LEVEL II DESIGN PROFESSIONAL CERT. # 8134

NOTE: NO CONCRETE WASHDOWN IS ALLOWED ONSITE.

UTILITIES PROTECTION CENTER
 CALL THREE WORKING DAYS
 BEFORE YOU DIG
 THROUGHOUT GEORGIA
 1-800-282-7411



NOTES:

1. THIS PROPERTY IS LOCATED IN ZONE VE, A SPECIAL FLOOD HAZARD AREA AS DETERMINED BY FEDERAL EMERGENCY ANAGEMENT AGENCY (FEMA) FLOOD INSURANCE RATE MAP NUMBER 1300030 0194F, EFFECTIVE DATE: SEPTEMBER 26, 2008 BASE FLOOD ELEVATION 17.00.
2. ALL ELEVATIONS BASED ON MEAN SEA LEVEL DATUM (NGVD 29).
3. THE HORIZONTAL DATUM IS BASED ON GRID NORTH, GEORGIA EAST ZONE, NAD 83.

NOT FOR CONSTRUCTION
 RELEASED FOR CONSTRUCTION
 DATE: _____ BY: _____

Kem-Coleman & Co., LLC.
 Consulting Engineers • Land Surveyors • Land Planners
 Architects • Landscape Architects • Environmental Scientists
 7 Mail Court, CH1410, P.O. Box 15179, Savannah, Georgia 31416
 Telephone: (912) 351-8400 Fax: (912) 351-8400 Email: info@kemcolem.com

STAMP
 GEORGIA REGISTERED PROFESSIONAL ENGINEER
 No. 11261
 JOHN S. HEARN

STAMP
 GEORGIA REGISTERED PROFESSIONAL ENGINEER
 No. 31215
 TRAVIS G. BURKE

ORIGINAL RELEASED FOR CONSTRUCTION DATE:

NO DATE REVISION

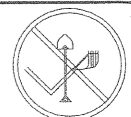
NO	DATE	REVISION

PLANS OF IMPROVEMENTS TO TYBEE MARINA FOR LAZARETTO DEVELOPMENT, LLC

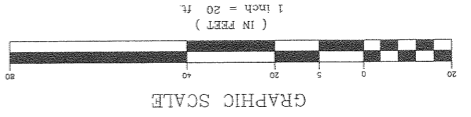
DRAWING TITLE:
 INITIAL EROSION CONTROL

SCALE: 1" = 20'
 PROJECT NO: 090407.000
 DATE: 7/30/09
 DRAWN BY: NPM
 CHECKED BY: TGB

SHITTY NO:
E1



UTILITIES PROTECTION CENTER
 CALL THREE WORKING DAYS
 BEFORE YOU DIG
 1-800-282-7411
 THROUGHOUT GEORGIA



NOTE: NO CONCRETE WASHDOWN IS ALLOWED ON SITE.

TRAVIS C. BURR
 CIVIL ENGINEER
 CERT. # 1281

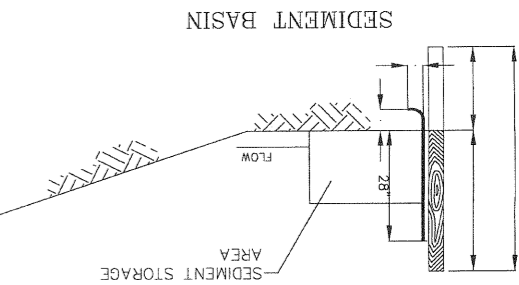
24 HOUR CONTACT PERSON:
 TRAVIS BURR, KERN COLEMAN & CO. LLC

1. THE ESCAPE OF SEDIMENT FROM THE SITE SHALL BE PREVENTED BY THE INSTALLATION OF EROSION AND SEDIMENT CONTROL MEASURES AND PRACTICES PRIOR TO OR CONCURRENT WITH LAND-DISTURBING ACTIVITIES.
2. EROSION CONTROL MEASURES WILL BE MAINTAINED AT ALL TIMES, IF FULL IMPLEMENTATION OF THE APPROVED PLAN DOES NOT PREVENT EROSION.
3. EROSION CONTROL MEASURES SHALL BE MAINTAINED UNTIL THE EROSION CONTROL MEASURES ARE NO LONGER NECESSARY TO PREVENT EROSION.
4. ALL DISTURBED AREAS SHALL BE RESTORED TO ORIGINAL OR BETTER CONDITION.
5. HYDRAULIC DESIGN SHALL INCLUDE THE SEDIMENT, PERTRUZE, & WOOD CELLULOSE OVER THE AREA AT A RATE OF 500 LBS/ACRE IN A SLOTTED UNDERLAY.
6. DRAINAGE FLOWS SOUTH THROUGH EXISTING DITCHES TO ADJACENT WETLANDS.
7. THERE ARE STATE WATERS ON THIS SITE (LAZARETTO CREEK, ADJACENT).
8. THE DISTURBED AREAS SHALL BE RESTORED TO ORIGINAL OR BETTER CONDITION.
9. EROSION AND SEDIMENTATION CONTROL MEASURES OR PRACTICES SHALL BE MAINTAINED UNTIL THE EROSION CONTROL MEASURES ARE NO LONGER NECESSARY TO PREVENT EROSION.
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12. PERMANENT VEGETATION SHALL BE INSTALLED AS SOON AS POSSIBLE. TEMPORARY VEGETATION AND/OR MULCH SHALL BE EMPLOYED WHERE NECESSARY TO PREVENT EROSION UNTIL PERMANENT VEGETATION OR STABILIZATION IS ATTAINED.
13. NATURAL VEGETATION SHALL BE RETAINED, PROTECTED AND SUPPLEMENTED WHERE FEASIBLE TO PROVIDE FOR NATURAL BUFFER AREAS.
14. DIVERSIONS, DICES, AND BENS SHALL BE EMPLOYED TO RETAIN, DIRECT AND CONTROL SURFACE WATER RUNOFF FROM DISTURBED AREAS INTO EXISTING CONTROL STRUCTURES.
15. ALL SURFACE WATER DISCHARGES SHALL BE CONTROLLED AND RELEASED AT A NONEROSIVE VELOCITY INTO STABILIZED AREAS OR INTO STABILIZED CHANNELS.
16. THIS REVIEW AND DISTRICT APPROVAL OF THIS ESCAPE PLAN DOES NOT EXEMPT THE PERMITTEE FROM OTHER PERMITS REQUIRED.

THE SILT FENCING SHALL BE UTILIZED TO FORM THE SEDIMENT BASIN FOR THIS SITE. SINCE THERE IS APPROXIMATELY 70 LF OF SILT FENCE ON THIS SITE, THE STORAGE CAN BE ACHIEVED BY ALLOWING SEDIMENT TO ACCUMULATE TO A MAXIMUM DEPTH OF 1.17' (1/2 THE HEIGHT OF THE SILT FENCE) AND A MAXIMUM OF 5' AWAY FROM THE SILT FENCE.

0.012 ACRES x 67 CY/ACRE = 0.82 CY REQUIRED STORAGE
 0.82 CY x 27 CF/CY = 22 CF REQUIRED STORAGE
 70' x 1.17' x 5' = 410 CF PROVIDED STORAGE
 410 CF > 22 CF THEREFORE, THERE IS ADEQUATE STORAGE PROVIDED

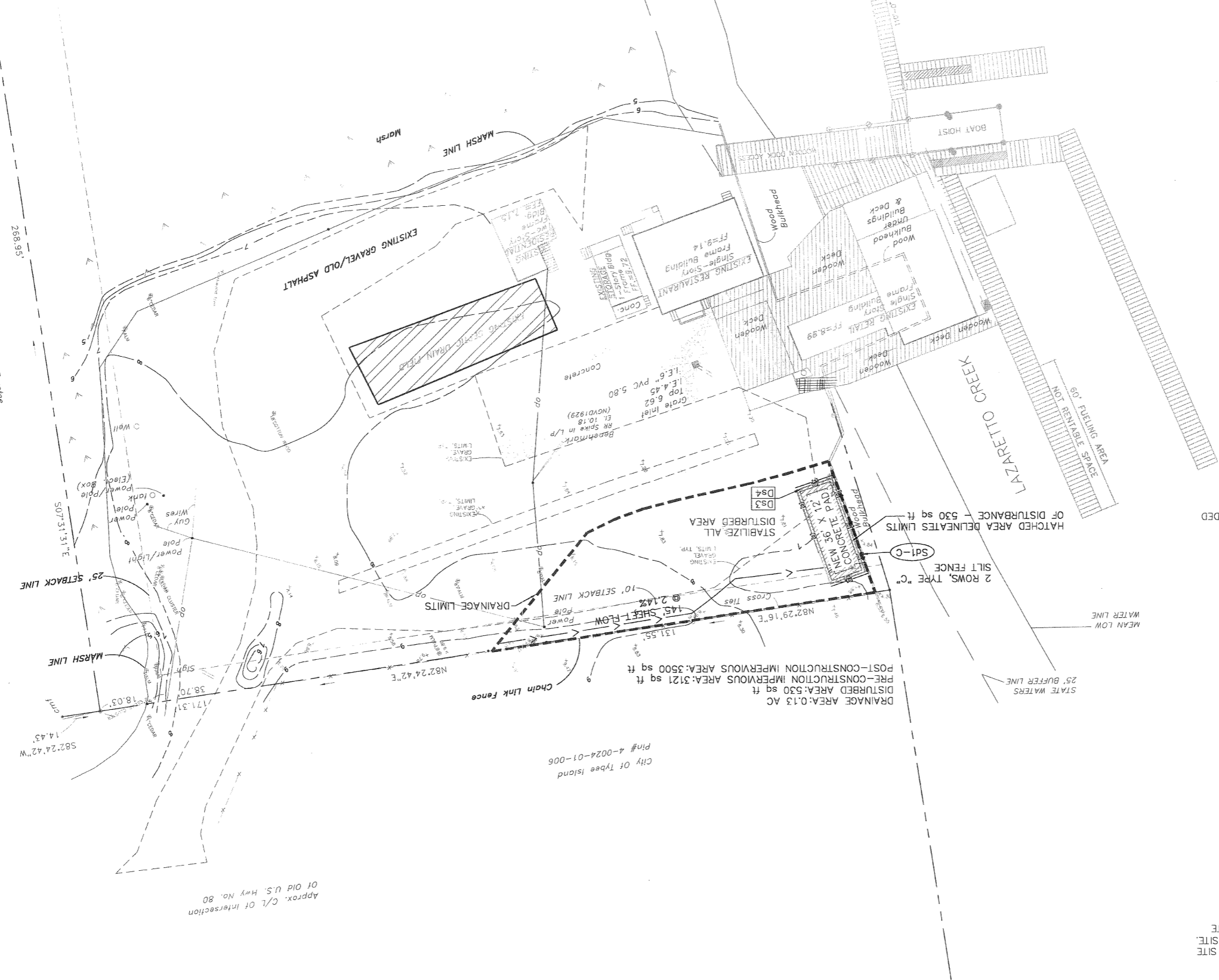
SITE SOIL SERIES: CAPERS TYPE "D"



NOTE: SILT FENCING WILL BE USED FOR SEDIMENT STORAGE ON THIS SITE BECAUSE THERE IS INADEQUATE ROOM FOR A SEDIMENT BASIN ON SITE. ADDITIONALLY, THE DISTURBED AREA (0.012 AC) WILL NOT GENERATE ENOUGH ERODIBLE SEDIMENT TO JUSTIFY A SEDIMENT BASIN.

RATIONALE FOR USING SILT FENCE SEDIMENT STORAGE

- NOTES:
1. THIS PROPERTY IS LOCATED IN ZONE VE, A SPECIAL FLOOD HAZARD AREA AS DETERMINED BY FEDERAL EMERGENCY MANAGEMENT AGENCY (FEMA) FLOOD INSURANCE RATE MAP NUMBER 1300030 0194F, EFFECTIVE DATE: SEPTEMBER 26, 2008 BASE FLOOD ELEVATION 17.00.
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Barbara W. Gustin Trustee
 Pin# 1-0021-01-001Z
 288.95'

CHY Of Tybee Island
 Pin# 4-0024-01-006

Approx. C/L Of Intersection
 Of Old U.S. Hwy No. 80

DATE:	BY:
<input type="checkbox"/> NOT FOR CONSTRUCTION	<input type="checkbox"/> RELEASED FOR CONSTRUCTION
PROJECT NO. 090407000	DATE: 7/30/08
SCALE: 1" = 20'	DRAWN BY: NPM
	CHECKED BY: TGB
	SHEET NO. E3

FINAL EROSION CONTROL DRAWING TITLE

PLANS OF IMPROVEMENTS TO TYBEE MARINA FOR LAZARETTO DEVELOPMENT, LLC.

NO. DATE	REVISION



Kern-Coleman & Co. LLC.
 Consulting Engineers • Land Surveyors • Land Planners
 Architects • Landscape Architects • Environmental Scientists
 7 Mail Center Circle, P.O. Box 1179, Savannah, Georgia 31410
 Telephone: (912) 399-9800 Fax: (912) 399-1852 Email: info@kern-coleman.com