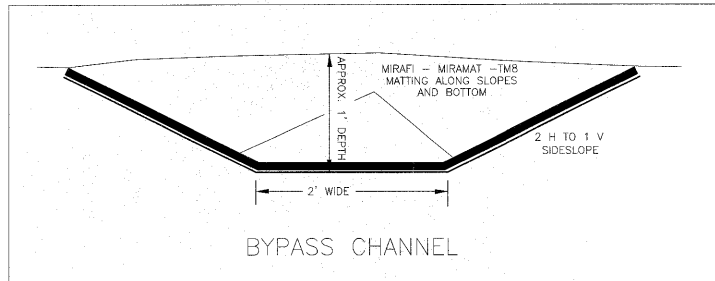
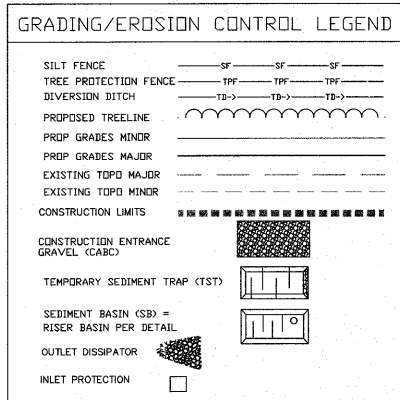


**GRAVEL & RIP RAP SEDIMENT TRAP AND SEDIMENT BASIN SIZES**

#	DRAINAGE DENUDE		SIZE (MINIMUM)			WEIR LENGTH (FT)**	VOLUME REQUIRED (CF)	VOLUME PROVIDED (CF)	Surface Area Required (ac)	Surface Area Provided (ac)
	AREA (AC)	AREA (AC)	WIDTH (FT)	LENGTH (FT)	DEPTH* (FT)					
TST 1	1.0	1.0	30	60	4.0	4	1,800	3,240	0.015	0.041
TST 2	1.8	1.8	30	70	4.0	4	3,240	3,780	0.027	0.048
TST 3	1.8	1.8	30	70	4.0	4	3,240	3,780	0.027	0.048
TST 4	1.0	1.0	30	60	4.0	4	1,800	3,240	0.015	0.041
TST 5	3.2	3.2	40	80	5.0	4	5,760	7,680	0.047	0.073
TST 6	1.5	1.5	30	60	4.0	4	2,700	3,240	0.022	0.041

\*\* MINIMUM WEIR LENGTH = 4'  
\*\*INCLUDES 1' OF FREE BOARD.

Disturbed Area = 13.20 Acres  
 Lake Amberly is the BMP Device for this Project.  
 Project is located in Cape Fear River Basin, Jordan Lake Watershed.  
 Impervious Area: 70%.  
 Max impervious per lot = 3,500 S.F



**ROADWAY CULVERT CROSSING CONSTRUCTION SEQUENCE**

1. INSTALL TEMPORARY SEDIMENT TRAPS AND TEMPORARY DIVERSIONS AS SHOWN ON PLANS. CLEAR ONLY AS REQUIRED TO CONSTRUCT THESE DEVICES.
2. CONSTRUCT 2' WIDE BYPASS CHANNEL AND BERM EXISTING STREAM CHANNEL. CHANNEL SHALL BE LINED WITH MIRAFI-MIRAMAT - TMB. CONSTRUCT TEMPORARY CULVERT CROSSING WITH 20' - 18" DIAMETER PIPE.
3. CONSTRUCT STORM CULVERT AND FES SECTIONS.
- 3A. DIVERT CHANNEL INTO STORM PIPE.
4. REMOVE TEMPORARY DIVERSION DITCHES ACROSS ROADWAY AND COMPLETE ROADWAY FILL.
5. MAINTAIN ALL EROSION CONTROL DEVICES AS SHOWN TO PREVENT SEDIMENT FROM ENTERING THE ROADWAY.

**GENERAL NOTES:**

1. ALL CONSTRUCTION SHALL BE IN ACCORDANCE WITH THE CURRENT TOWN OF CARY STANDARDS, SPECIFICATIONS AND DETAILS.
2. STREAM BUFFERS FROM KCI (SEE NOTE 4 ON SHEET C0.1.1)
3. THE CONTRACTOR, TO THE MAXIMUM EXTENT POSSIBLE, SHALL NOT REMOVE LARGE SPECIMEN TREES AT THE EDGES OF THE EASEMENTS, AND MINIMIZE DAMAGES TO TREES AT THE EDGES OF THE CONSTRUCTION CORRIDOR.
4. CONTRACTOR IS RESPONSIBLE FOR THE REMOVAL/DEMOLITION OF ALL EXISTING BUILDINGS, FOUNDATIONS, FENCE, DRAINAGE PIPING WITHIN THE REQUIRED CLEARING LIMITS, UNLESS NOTIFIED BY OWNER OR ENGINEER. DISPOSE ALL CONSTRUCTION DEMOLITION DEBRIS IN APPROVED LANDFILL.
5. ALL REINFORCED CONCRETE STORMWATER PIPING SHALL BE CLASS III WITH PREFORMED GASKET UNLESS OTHERWISE SPECIFIED PIPE BETWEEN YARDS CAN BE REINFORCED CONCRETE OR HOPE PIPE.
6. ALL STORM DRAIN FRAMES AND GRATES SHALL BE STAMPED WITH "DRAINS TO RIVER" IN ACCORDANCE WITH TOWN OF CARY STANDARDS.
7. TEMPORARY DIVERSION DITCHES ARE TO BE MAINTAINED DAILY DURING CONSTRUCTION AS GRADING ACTIVITIES CONTINUE. DIVERSION DITCHES SHOWN ON THE PLAN ARE THE MINIMUM REQUIRED.
8. ESTABLISHMENT OF PERMANENT GROUND COVER IS REQUIRED WITHIN 15 WORKING DAYS OR 90 CALENDAR DAYS, WHICHEVER IS SHORTER.
9. TOPSOIL AND SUBSOIL STOCKPILE LOCATIONS SHALL BE IDENTIFIED ON SITE AS NEEDED. ANY OFF SITE LOCATIONS MUST BE COORDINATED WITH THE TOWN AND SUPPLEMENTAL EROSION CONTROL PLAN WILL BE REQUIRED FOR THESE AREAS.
10. THIS PROJECT IS HIGH DENSITY AND LAKE AMBERLY WILL ACT AS WATERSHED PROTECTION DEVICE.
11. THE PROJECT WILL MEET ALL OF THE REQUIREMENTS RELATIVE TO THE BEST MANAGEMENT PRACTICES AND ENGINEERED STORMWATER CONTROL STRUCTURES AS OUTLINED IN THE TOWN OF CARY LAND DEVELOPMENT ORDINANCE. (CHAPTER 4, PART 4.6, LDO).

**CONSTRUCTION SEQUENCE**

1. SCHEDULE A PRE-CONSTRUCTION CONFERENCE WITH THE TOWN OF CARY ENVIRONMENTAL ENGINEER. CONTRACTOR AND OWNERS REPRESENTATIVE MUST ATTEND. RISER STRUCTURES MUST BE ON-SITE BEFORE SCHEDULING MEETING.
2. OBTAIN LAND DISTURBANCE PERMIT.
3. INSTALL GRAVEL CONSTRUCTION PAD, TEMPORARY DIVERSIONS, TREE PROTECTION FENCE, SILT FENCE, SEDIMENT BASINS OR OTHER MEASURES AS SHOWN ON THE APPROVED PLAN. CLEAR ONLY AS NECESSARY TO INSTALL THESE DEVICES. SEED TEMPORARY DIVERSIONS, BERMS AND BASINS IMMEDIATELY AFTER CONSTRUCTION.
4. CALL FOR AN ONSITE INSPECTION BY THE ENVIRONMENTAL ENGINEER TO OBTAIN A CERTIFICATE OF COMPLIANCE.
5. BEGIN CLEARING AND GRUBBING. CLEAN SEDIMENT TRAPS WHEN HALF FULL. MAINTAIN EROSION CONTROL DEVICES AND INSPECT DAILY. ROUGH GRADE SITE.
6. ALL PUBLIC ROADWAYS ADJACENT TO THIS PROJECT SHALL BE KEPT CLEAN AT ALL TIMES DURING CONSTRUCTION.
7. INSTALL STORM SEWER, IF SHOWN, AND PROTECT INLETS WITH INLET PROTECTION, SEDIMENT TRAPS OR OTHER APPROVED MEASURES AS SHOWN ON THE PLAN. BEGIN CONSTRUCTION, BUILDING, ETC.
8. CUT AND FILL SLOPES WILL BE STABILIZED WITHIN 15 DAYS OF ANY PHASE OF GRADING.
9. STABILIZE SITE AS AREAS ARE BROUGHT UP TO FINISH GRADE WITH VEGETATION, PAVING, DITCH LININGS, ETC. SEED AND MULCH DENUDE AREAS WITHIN FIFTEEN (15) DAYS OF COMPLETION OF ANY PHASE OF CONSTRUCTION.
10. CONTRACTOR SHALL MAINTAIN SOIL EROSION AND EROSION CONTROL MEASURES UNTIL PERMANENT GROUND COVER IS ESTABLISHED OR WHEN 80% OF THE LOTS WITHIN THE DRAINAGE AREA IS GRADED TO FINISHED GRADE.
11. WHEN CONSTRUCTION IS COMPLETE AND ALL AREAS ARE STABILIZED COMPLETELY, CALL FOR AN INSPECTION BY THE ENVIRONMENTAL ENGINEER.
12. IF SITE IS APPROVED, REMOVE TEMP. DIVERSIONS, SILT FENCE, SEDIMENT BASINS, ETC., AND SEED OUT OR STABILIZE ANY RESULTING BARE AREAS. ALL PERMANENT EROSION CONTROL DEVICES, SUCH AS VELOCITY DISSIPATORS, SHOULD NOW BE INSTALLED.
13. WHEN VEGETATION HAS BECOME ESTABLISHED, CALL FOR A FINAL SITE INSPECTION BY THE ENVIRONMENTAL ENGINEER OBTAIN A CERTIFICATE OF COMPLETION.
14. TO MINIMIZE DAMAGE TO EXISTING TREES NEAR THE INTERIOR EDGE OF BUFFER, THE CONTRACTOR SHALL CUT MINIMUM 2" TRENCHES ALONG THE LIMITS OF DISTURBANCE TO CUT, RATHER THAN TEAR ROOTS. MAINTAIN TREE PROTECTION FENCE UNTIL FINAL INSPECTION IS SCHEDULED.

**TST#5 CONSTRUCTION SEQUENCE**

1. INSTALL TEMPORARY SEDIMENT TRAP #5 WITH SKIMMER DEVICE. EXTEND OUTLET PIPE TO Y1 #112A.
2. PROVIDE TEMPORARY 15" PIPE FROM CI#1A TO TST#5. DO NOT CONNECT CI#1A TO EXISTING CI#113 UNTIL TST #5 IS READY TO BE REMOVED.

07-SP-121  
 APPROVED  
 TOWN OF CARY  
 Approved by: *DLG* Date: *10/22/09*  
 Planning: *SS* Date: *7/16/09*  
 Engineering: *SS* Date: *7/15/09*



Carolina Preserve by  
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 Phase 4  
 Cary, NC  
 GS Carolina  
 4011 Westchase Blvd Suite 175  
 Raleigh, NC 27607

REVISIONS


PROJECT #: 07-008 DATE: 06/22/09  
 DRAWN BY: MB CHECKED BY: DS  
 TITLE: EROSION CONTROL NOTES AND TABLES  
 SHEET: **C2.3**