

Pre and Post Development Flows

Drainage Basin #	Area (ac)	I (10) (in/hr)	Pre-Development Flows		Post-Development Flows		Flow Out of BMP (cfs)
			C-value	Q(10) (cfs)	C-value	Q(10) (cfs)	
1	10.00	6.03	0.25	15.07	0.8	48.23	0.04

FES DISSIPATOR SUMMARY

OUTLET #	PIPE DIA. (IN)	DISCHARGE (CFS)	BEGIN W (FT)	END W (FT)	LENGTH (FT)	THICKNESS (IN)	CLASS STONE
FES#1	30.00	45.21	7.50	10	7.50	18	B

GENERAL NOTES:

1. ALL CONSTRUCTION SHALL BE IN ACCORDANCE WITH THE CURRENT TOWN OF CARY STANDARDS, SPECIFICATIONS AND DETAILS.
2. STREAM BUFFERS AND WETLAND AREAS WERE DELINEATED BY ENVIRONMENTAL SERVICES INC. AND MAPPED BY CHAS. H. SELLS, INC. THE DELINEATION HAS BEEN APPROVED BY THE US ARMY CORPS OF ENGINEERS AND INCLUDES RIPARIAN BUFFERS.
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 HDPE 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 THE CONSTRUCTED WETLAND IS SERVING AS WATERSHED PROTECTION.
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 STANDARDS.
12. THE PROJECT IS OUTSIDE 100 YEAR FLOOD PLAIN.

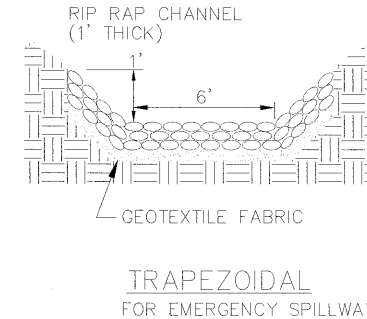
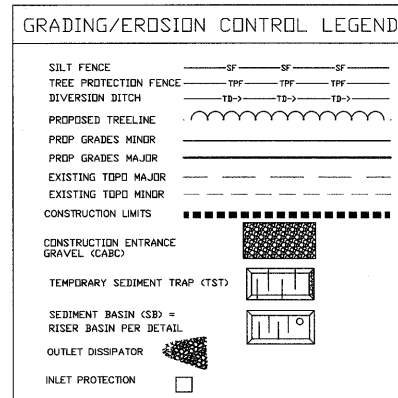
CONSTRUCTION SEQUENCE

1. SCHEDULE A PRE-CONSTRUCTION CONFERENCE WITH THE TOWN OF CARY ENVIRONMENTAL ENGINEER. CONTRACTOR AND OWNERS REPRESENTATIVE MUST ATTEND. RISER STRUCTURE MUST BE ONSITE BEFORE PERMIT IS ISSUED.
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 DENUED 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.

TOTAL DISTURBED AREA = 6.1 ACRES

NOTE: THE BMP IS DESIGNED TO HANDLE DRAINAGE AREA FOR UNC WELLNESS CENTER THE AREA IS CALCULATED AT 70% IMPERVIOUS.

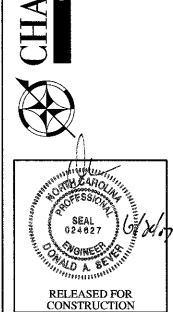
CAPE FEAR WATER SHED



06-SP-093 APPROVED
TOWN OF CARY

Approved by ORC Date 2-15-07
 Planning RMS Date 7-17-07
 Engineering JS Date 7-9-07

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REVISIONS

NO.	DESCRIPTION	DATE

PROJECT # 06-404 DATE: 06/20/07
 DRAWN BY: MB CHECKED BY: JS
 TITLE: EROSION CONTROL NOTES AND TABLES
 SHEET: C2.2

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