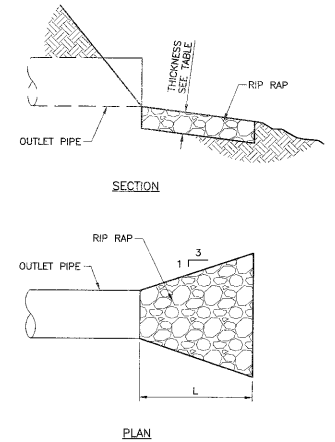
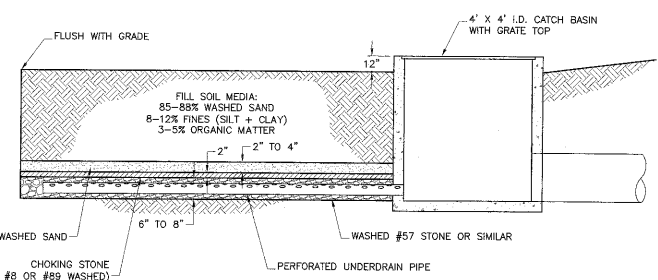


BMP GRADING PLAN
1"=30'

- STORMWATER NOTES:**
- CONTRACTOR TO SUPPLY SHOP DRAWINGS FOR ALL OUTLET STRUCTURES, INCLUDING MATERIAL SPECIFICATIONS FOR FILTER FABRIC AND UNDERDRAIN PIPES, PRIOR TO CONSTRUCTION.
 - CONTRACTOR TO PROVIDE AT LEAST 2 IDENTICAL SAMPLES OF BIO RETENTION SOIL MIXTURE FOR ENGINEER'S APPROVAL PRIOR TO CONSTRUCTION.
 - BIO RETENTION AREAS SHALL NOT BE INSTALLED UNTIL UPSTREAM DRAINAGE AREA HAS BEEN STABILIZED AND PAVED.
 - VEGETATION PLAN TO BE PROVIDED BY LANDSCAPE ARCHITECT.
 - CONTRACTOR SHALL MINIMIZE COMPACTION OF SOIL MIX DURING CONSTRUCTION OF BIO RETENTION AREAS
 - PRIOR TO FINAL VEGETATION PLANTING, CONTRACTOR SHALL CONTACT ENGINEER OR SOIL SCIENTIST TO VERIFY HYDROLOGIC FUNCTIONALITY OF INSTALLED SOIL BED.
 - IF BIO RETENTION AREAS ARE TO BE USED AS EROSION CONTROL DEVICES DURING CONSTRUCTION, CONTRACTOR SHALL STRIP ALL ACCUMULATED SEDIMENT FROM BOTTOM OF BASIN PRIOR TO COMMENCING CONSTRUCTION OF THE BIO RETENTION AREA.
 - GRATES IN CATCH BASIN SHALL BE NCDOT STD. 840.20 OR APPROVED EQUAL, MIN. GRATE SIZE = 3' X 3'.
 - GRADING PERMIT WILL NOT BE ISSUED UNTIL THE TOWN OF CARY HAS RECEIVED NOTIFICATION FROM THE ECOSYSTEM ENHANCEMENT PROGRAM THAT A RECEIPT HAS BEEN ISSUED TO THE DEVELOPER AND THE LOCAL GOVERNMENT STATING THE NITROGEN BUY DOWN HAS BEEN COMPLETED.
 - OUT-4 TO BE CONSTRUCTED FLUSH WITH RETAINING WALL. CONTRACTOR TO PROVIDE DESIGN DRAWINGS PRIOR TO CONSTRUCTION.



RIP RAP APRON DETAIL
NTS



BIORETENTION DETAIL
NTS

BMP A

Info	Elev
Planting Surface	1675 sf
Water Quality Pool	2200 sf
Storage Volume	3350 cf
Underdrain	6" PVC
Riser Crest	4' x 4' Box
Outlet Pipe	18" RCP

BMP B

Info	Elev
Planting Surface	2060 sf
Water Quality Pool	2630 sf
Storage Volume	4120 cf
Underdrain	6" PVC
Riser Crest	4' x 4' Box
Outlet Pipe	18" RCP

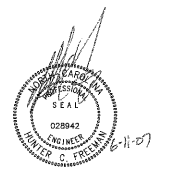
Rip Rap Aprons

Pipe Outlet	Total Q (cfs)	Outlet Velocity (fps)	Apron Length (ft)	Rip Rap Size (in)
Out-4	6.29	9.7	7.5	Cl. B (6" d50)
Out-13	5.87	6.6	7.5	Cl. B (6" d50)



APPROVED
TOWN OF CARY
PROJECT # 07-SP-045

Approved by: *[Signature]* Date: 4-11-07
 Planning: *[Signature]* Date: 4-11-07
 Engineering: *[Signature]* Date: 4-12-07



No.	Revision	Date	By	Designer	Scale
				W&R	1"=20'
				PAW	4/12/07
				W&R	2070278.00

BIOLOGICS - WESTON OAKS SITE
CARY WAKE COUNTY NORTH CAROLINA

STORMWATER MANAGEMENT SHEET

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