



Engineering 212 Operations Center Drive Wilmington, NC 28412 910 341-7807 910 341-5881 fax wilmingtonnc.gov Dial 711 TTY/Voice

COMPREHENSIVE STORMWATER MANAGEMENT PERMIT

HIGH DENSITY DEVELOPMENT

SECTION 1 - APPROVAL

Having reviewed the application and all supporting materials, the City of Wilmington has determined that the application is complete and the proposed development meets the requirements of the City of Wilmington's Comprehensive Stormwater Ordinance.

PERMIT HOLDER: Coastal Finance Company, Inc.

PROJECT: ADDRESS: Coastal Finance Retail Center 1006 South Kerr Avenue

PERMIT #:

2018022

DATE:

June 1, 2018

Therefore, the above referenced site is hereby approved and subject to all conditions set forth in Section 2 of this approval and all applicable provisions of the City of Wilmington Comprehensive Stormwater Management Ordinance.

This permit shall be effective from the date of issuance until June 1, 2028 and shall be subject to the following specified conditions and limitations:

Section 2 - CONDITIONS

- 1. This approval is valid only for the stormwater management system as proposed on the approved stormwater management plans dated May 30, 2018.
- The project will be limited to the amount and type of built-upon area indicated in 2. Section IV of the Stormwater Management Application Form submitted as part of the approved stormwater permit application package, and per the approved plans.
- 3. This permit shall become void unless the facilities are constructed in accordance with the approved stormwater management plans, specifications and supporting documentation, including information provided in the application and supplements.
- 4. The runoff from all built-upon area within any permitted drainage area must be directed into the permitted stormwater control system for that drainage area.





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5. The permittee shall submit a revised stormwater management application packet to the City of Wilmington and shall have received approval prior to construction, for any modification to the approved plans, including, but not limited to, those listed below:

a. Any revision to any item shown on the approved plans, including the stormwater management measures, built-upon area, details, etc.

b. Redesign or addition to the approved amount of built-upon area or to the drainage area.

c. Further subdivision, acquisition, lease or sale of any part of the project area.

d. Filling in, altering, or piping of any vegetative conveyance shown on the approved plan.

e. Construction of any permitted future areas shown on the approved plans.

- 6. A copy of the approved plans and specifications shall be maintained on file by the Permittee.
- 7. During construction, erosion shall be kept to a minimum and any eroded areas of the system will be repaired immediately.
- 8. If the stormwater system was used as an Erosion Control device, it must be restored to design condition prior to operation as a stormwater treatment device, and prior to issuance of any certificate of occupancy for the project.
- 9. All areas must be maintained in a permanently stabilized condition. If vegetated, permanent seeding requirements must follow the guidelines established in the North Carolina Erosion and Sediment Control Planning and Design Manual unless an alternative is specified and approved by the City of Wilmington.
- 10. All applicable operation & maintenance agreements and easements pertaining to each stormwater treatment system shall be referenced on the final plat and recorded with the Register of Deeds upon final plat approval. If no plat is recorded for the site the operation and maintenance agreements and easements shall be recorded with the Register of Deeds so as to appear in the chain of title of all subsequent purchasers under generally accepted searching standards.
- 11. The stormwater management system shall be constructed in its entirety, vegetated and operational for its intended use prior to the construction of any built-upon surface unless prior approval is obtained. City Staff must be notified of any deviation prior to construction of the built-upon surface. Any deviation request shall include justification and must propose an alternative timeline or construction sequence. Notification shall not constitute approval. Any alternative timeline approved by City staff shall become an enforceable component of this permit.





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12. The permittee shall at all times provide the operation and maintenance necessary to assure the permitted stormwater system functions at optimum efficiency. The approved Operation and Maintenance Agreement must be followed in its entirety and maintenance must occur at the scheduled intervals including, but not limited to:

a. Scheduled inspections (interval noted on the agreement).

b. Sediment removal.

c. Mowing and revegetation of slopes and the vegetated areas.

d. Maintenance of landscape plants, including those within the landscape buffer and on the vegetated shelf.

e. Immediate repair of eroded areas, especially slopes.

f. Debris removal and unclogging of outlet structure, orifice device, flow spreader, catch basins and/or piping.

g. Access to the outlet structure must be available at all times.

- 13. Records of inspection, maintenance and repair for the permitted stormwater system must be kept by the permittee for at least 5 years from the date of record and made available upon request to authorized personnel of the City of Wilmington. The records will indicate the date, activity, name of person performing the work and what actions were taken.
- 14. Upon completion of construction, before a Certificate of Occupancy shall be granted, and prior to operation or intended use of this permitted facility, the applicant shall submit to the City of Wilmington as-built plans for all stormwater management facilities. The plans shall show the final design specifications and the field location, type, depth, invert and planted vegetation of all measures, controls and devices, as-installed. A certification shall be submitted, along with all supporting documentation that specifies, under seal that the as-built stormwater measures, controls and devices are in compliance with the approved stormwater management plans. A final inspection by City of Wilmington personnel will be required prior to issuance of a certificate of occupancy or operation of the permitted facility.
- 15. This permit is not transferable except after application and approval by the City of Wilmington. In the event of a change of ownership, name change or change of address the permittee must submit a completed Name/Ownership Change form to the City of Wilmington at least 30 days prior to the change. It shall be signed by all applicable parties, and be accompanied by all required supporting documentation. Submittal of a complete application shall not be construed as an approved application. The application will be reviewed on its own merits by the City of Wilmington and may or may not be approved. The project must be in compliance with the terms of this permit in order for the transfer request to be considered. The permittee is responsible for compliance with all permit conditions until such time as the City of Wilmington approves the transfer request. Neither the sale of the project nor the conveyance of common area to a third party should be considered as an approved transfer of the permit.
- 16. Failure to abide by the conditions and limitations contained in this permit may subject the Permittee to enforcement action by the City of Wilmington, in accordance with Sections 18-52 and 18-53 and any other applicable section of the Land Development Code.





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- 17. The City of Wilmington may notify the permittee when the permitted site does not meet one or more of the minimum requirements of the permit. Within the time frame specified in the notice, the permittee shall submit a written time schedule to the City of Wilmington for modifying the site to meet minimum requirements. The permittee shall provide copies of revised plans and certification in writing to the City of Wilmington that the changes have been made.
- 18. The issuance of this permit does not preclude the Permittee from complying with any and all statutes, rules, regulations, or ordinances, which may be imposed by other government agencies (local, state, and federal) having jurisdiction.
- 19. In the event that the facilities fail to perform satisfactorily, including the creation of nuisance conditions, the Permittee shall take immediate corrective action, including those as may be required by the City of Wilmington, such as the construction of additional or replacement stormwater management systems.
- 20. The permittee grants City of Wilmington Staff permission to enter the property during normal business hours for the purpose of inspecting all components of the permitted stormwater management facility.
- 21. The permit issued shall continue in force and effect until revoked or terminated by the City of Wilmington. The permit may be modified, revoked and reissued or terminated for cause. The filing of a request for a permit modification, revocation and re-issuance or termination does not stay any permit condition.
- 22. The approved stormwater management plans and all documentation submitted as part of the approved stormwater management permit application package for this project are incorporated by reference and are enforceable parts of the permit.
- 23. The permittee shall submit a renewal request with all required forms and documentation at least 180 days prior to the expiration date of this permit.
- 24. If any one or more of the conditions of this permit is found to be unenforceable or otherwise invalidated, all remaining conditions shall remain in full effect.

Stormwater Management Permit issued this the 1st day of June, 2018.

for Sterling Cheatham, City Manager

City of Wilmington

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Public Services
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STORMWATER MANAGEMENT PERMIT APPLICATION FORM (Form SWP 2.2)

I.	GENERAL INFORMATION
1.	Project Name (subdivision, facility, or establishment name - should be consistent with project name on plans, specifications, letters, operation and maintenance agreements, etc.):
	Coastal Finance Retail Center
2.	Location of Project (street address):
	1006 S Kerr Avenue
	City: Wilmington County: New Hanover Zip: 28403
3.	Directions to project (from nearest major intersection):
	Located 0.18 miles north of the intersection of S Kerr Avenue and Wrightsville
	Avenue. Project site is on the west side of S Kerr Avenue.
II.	PERMIT INFORMATION
1.	Specify the type of project (check one): Low Density High Density Drains to an Offsite Stormwater System Drainage Plan Other If the project drains to an Offsite System, list the Stormwater Permit Number(s):
	City of Wilmington: State – NCDENR/DWQ:
2.	Is the project currently covered (whole or in part) by an existing City or State (NCDENR/DWQ) Stormwater Permit? Yes No If yes, list all applicable Stormwater Permit Numbers:
	City of Wilmington: State - NCDENR/DWQ:
3.	Additional Project Permit Requirements (check all applicable): CAMA Major Sedimentation/Erosion Control NPDES Industrial Stormwater 404/401 Permit: Proposed Impacts: If any of these permits have already been acquired please provide the Project Name, Project/Permit Number, issue date and the type of each permit:

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III. CONTACT INFORMATION

1.	Print Applicant / Signing Official's name and title (specifically the developer, property owner, lessee, designated government official, individual, etc. who owns the project):
	Applicant / Organization: Coastal Finance Company, Inc.
	Signing Official & Title: Down RENFROW, PARTNER
	a. Contact information for Applicant / Signing Official: Street Address: 4370-A Arendell Street
	City: Morehead City State: NC Zip: 28557
	Phone: 910-251-0100 Fax: 910-251-0178 Email: john. renfrow@ coastal finance co. co
	Mailing Address (if different than physical address):
	City:State:Zip:
	b. Please check the appropriate box. The applicant listed above is:
	 ☑ The property owner (Skip to item 3) ☑ Lessee* (Attach a copy of the lease agreement and complete items 2 and 2a below) ☑ Purchaser* (Attach a copy of the pending sales agreement and complete items 2 and 2a below) ☑ Developer* (Complete items 2 and 2a below.)
2.	Print Property Owner's name and title below, if you are the lessee, purchaser, or developer. (This is the person who owns the property that the project is on.)
	Property Owner / Organization: SAME AS APPLICATED
	Signing Official & Title:
	a. Contact information for Property Owner:
	Street Address:
	City:State:Zip:
	Phone:Fax:Email:
	Mailing Address (if different than physical address):
	City:State:Zip:
3.	(Optional) Print the name and title of another contact such as the project's construction supervisor or another person who can answer questions about the project:
	Other Contact Person / Organization:
	Signing Official & Title:





Page 3 of 7

	City:State:	Zip:
	Phone:Fax:Email: _	
	Mailing Address (if different than physical address):	
	City:State:	
V. I	PROJECT INFORMATION	
l. I	In the space provided below, briefly summarize how the storr	nwater runoff will be treated.
	Stormwater runoff will be treated utilizing a piped ne	twork that conveys the storm
-	water runoff to a single wet detention pond with fo	rebay. A retaining wall will be
-	built around the perimeter of the pond and forebay	
2.	Total Property Area: 35,046square feet	
3.	Total Coastal Wetlands Area: 0square feet	
١. ٠	Total Surface Water Area: 0square feet	
	Total Property Area (2) – Total Coastal Wetlands Area (3) – ⁻ Project Area: <u>35,046</u> square feet.	Fotal Surface Water Area (4) = Tota
S. 1	Existing Impervious Surface within Property Area: 3,718	_square feet
7.	Existing Impervious Surface to be Removed/Demolished: <u>3,7</u>	square feet
3.	Existing Impervious Surface to Remain: 0squar	e feet
	Total Onsite (within property boundary) Newly Constructed Ir	
Г	Duildings/Lots	3,294
- ⊩	Buildings/Lots Impervious Pavement	7,004
- ⊩	Pervious Pavement (adj. total, with % credit applied)	0
-	Impervious Sidewalks	2,641
- ⊩	Pervious Sidewalks (adj. total, with % credit applied)	0
	Other (describe)	
	Future Development	0
	Total Onsite Newly Constructed Impervious Surface	12,939



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12. Total Offsite Newly Constructed Impervious Area (improvements made outside of property boundary, in square feet):

Impervious Pavement	255
Pervious Pavement (adj. total, with % credit applied	d) 0
Impervious Sidewalks	0
Pervious Sidewalks (adj. total, with % credit applied	d) 0
Other (describe)	0
Total Offsite Newly Constructed Impervious Surface	255

13. Total Newly Constructed Impervious Surface	
(Total Onsite + Offsite Newly Constructed Impervious Surface) = 13194	square fee

14. Complete the following information for each Stormwater BMP drainage area. If there are more than three drainage areas in the project, attach an additional sheet with the information for each area provided in the same format as below. Low Density projects may omit this section and skip to Section V.

Basin Information		Wet Pond BMP # 1	BMP#	BMP#
Receiving Stream Name		Burnt Mill Creek		
Receiving Stream Index No	ımber	18-74-63-2		
Stream Classification		C;Sw		
Total Drainage Area (sf)		35046	0	0
On-Site Drainage Area	(sf)	35046		
Off-Site Drainage Area	(sf)	0		
Total Impervious Area (st)	12939	0	0
Buildings/Lots (sf)		3294		
Impervious Pavement (s	sf)	7004		
Pervious Pavement,	% credit (sf)	0		
Impervious Sidewalks (s	sf)	2641		
Pervious Sidewalks,	% credit (sf)	0		
Other (sf)				
Future Development (sf)	0		
Existing Impervious to r	emain (sf)	0		
Offsite (sf)				
Percent Impervious Area (%)	37%		

15. How was the off-	-site impervious area listed a	bove determined? Provide de	ocumentation:



V. SUBMITTAL REQUIREMENTS

- Supplemental and Operation & Maintenance Forms One applicable City of Wilmington Stormwater BMP supplement form and checklist must be submitted for each BMP specified for this project. One applicable proposed operation and maintenance (O&M) form must be submitted for each type of stormwater BMP. Once approved, the operation and maintenance forms must be referenced on the final plat and recorded with the register of deeds office.
- 2. Deed Restrictions and Restrictive Covenants For all subdivisions, outparcels, and future development, the appropriate property restrictions and protective covenants are required to be recorded prior to the sale of any lot. Due to variability in lot sizes or the proposed BUA allocations, a table listing each lot number, lot size, and the allowable built-upon area must be provided as an attachment to the completed and notarized deed restriction form. The appropriate deed restrictions and protective covenants forms can be downloaded at the link listed in section V (3). Download the latest versions for each submittal.

In instances where the applicant is different than the property owner, it is the responsibility of the property owner to sign the deed restrictions and protective covenants form while the applicant is responsible for ensuring that the deed restrictions are recorded.

By the notarized signature(s) below, the permit holder(s) certify that the recorded property restrictions and protective covenants for this project, if required, shall include all the items required in the permit and listed on the forms available on the website, that the covenants will be binding on all parties and persons claiming under them, that they will run with the land, that the required covenants cannot be changed or deleted without concurrence from the City of Wilmington, and that they will be recorded prior to the sale of any lot.

3. Only complete application packages will be accepted and reviewed by the City. A complete package includes all of the items listed on the City Engineering Plan Review Checklist, including the fee. Copies of the Engineering Plan Review Checklist, all Forms, Deed Restrictions as well as detailed instructions on how to complete this application form may be downloaded from:

http://www.wilmingtonnc.gov/PublicServices/Engineering/PlanReview/StormwaterPermits.aspx

The complete application package should be submitted to the following address:

City of Wilmington – Engineering Plan Review Section 414 Chestnut Street, Suite 200 Wilmington, NC 28402



VI. CONSULTANT INFORMATION AND AUTHORIZATION

1,	Applicant: Complete this section if you wish to designate authority to another individual and/or firm (such as a consulting engineer and /or firm) so that they may provide information on your behalf for this project (such as addressing requests for additional information).
	Consulting Engineer: Rob Balland, PE
	Consulting Firm: Paramounte Engineering, Inc.
	a. Contact information for consultant listed above:
	Mailing Address: 122 Cinema Drive
	City: Wilmington State: NC Zip: 28403
	Phone: 910-791-6707 Fax: 910-791-6760 Email: rballand@paramounte-eng.com
VII	PROPERTY OWNER AUTHORIZATION (If Section III(2) has been filled out, complete this section)
persiliste pro the sto As des def Will res Chi vali	int or type name of person listed in Contact Information, item 2)
	rcement including the assessment of civil penalties.
Sig	ature:Date:
S	I,, a Notary Public for the State of, County of, do hereby certify that personally appeared before me this day of,, and acknowledge the due execution of the application for a stormwater
	permit. Witness my hand and official seal,
	My commission expires:



VIII. APPLICANT'S CERTIFICATION

I, (print or type name of person listed	in Contact Information, item 1), Tohn Kenfrow certify
that the information included or	this permit application form is, to the best of my knowledge, correct and
that the project will be construct	ted in conformance with the approved plans, that the required deed
restrictions and protective cover	nants will be recorded, and that the proposed project complies with the
requirements of the applicable	
$\cap \cap \cap \wedge \wedge \wedge$	7
Signature:	
SEAL	State of Worth (Azolina, County of New Haroven, do
]	hereby certify that Toho RENEROW
İ	personally appeared before me this day of October 13 2017,
	and acknowledge the due execution of the application for a stormwater
	permit. Witness my hand and official seal,
	- BL
	My commission expires: 12-4-2-21

SUPPLEMENT-EZ FORM COVER PAGE



Please indicate the types, quantities and locations of SCMs that will be used on this project:

Infiltration System Bioretention Cell Wet Pond Stormwater Wetland Permeable Pavement Sand Filter Rainwater Harvesting	Quantity 1	Location(s) West side of lot located at 1006 S Kerr Ave, Wilmington, NC
Green Roof		
Level Spreader-Filter Strip		
Disconnected Impervious Surface		
Treatment Swale		
Day Dond		

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Coastal Finance Company

Address

1006 S Kerr Avenue

City / Town

Wilmington

Designer information for this project:

Name and Title:	J. Branch Smith, PE
Organization:	Paramounte Engineering, Inc.
Street address:	122 Cinema Drive
City, State, Zip:	Wilmington, NC 28403
Phone number(s):	910-791-6707
Email:	bsmith@paramounte-eng.com

Applicant:

Company:	Coastal Finance Company, Inc.
Contact:	John Renfrow
Mailing Address:	4370-A Arendell Street
City, State, Zip:	Morehead City, NC 28557
Phone number(s): 910-251-0100	910-251-0100
Email:	john.renfrow@coastalfinanceco.com

Designer

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Signature of Designer

5 9-18

Date

Certification Statement:

I certify, under penalty of law: that this Supplement-EZ form and all supporting information were prepared under my direction or supervision;

- that the information provided in the form is, to the best of my knowledge and belief, true, accurate, and complete; and
- that the engineering plans, specifications, operation and maintenance agreements and other supporting information are consistent with the information provided here.

I am aware that there are significant penalties for submitting false information including the possibility of fines and imprisonment for knowing violations as well as a report being made to my professional board.



1:20 PM 5/1/2018

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THE DRAINAGE AREA			
Drainage area number	Pond 1	Break down of BUA in the drainage area (both new and existing):	
Total coastal wetlands area (sq ft)	0	- Parking / driveway (sq ft)	7004 sf
Total surface water area (sq ft)	S	- Sidewalk (sq ft)	2641 sf
Total drainage area (sq ft)	35046 sf	- Roof (sq ft)	3294 sf
BUA associated with existing development (sq ft)	0	- Roadway (sq ft)	
Proposed new BUA (sq ft)	12939 sf	- Olher, please specify in the comment box below (sq ft)	
Percent BUA of drainage area	37%	Total BUA (sq ft)	12939 sf
COMPLIANCE WITH THE APPLICABLE STORMWATER PROGRAM			•
Stormwater program(s) that apply (please specify):		Design rainfall depth (in)	1.5 in
State Stormwater - Coastal Rules - via City of Wilmington delegation		Minimum volume required (cu ft)	1675 cf
GENERAL MDC FROM 02H .1050		Lesign volume of S-CM (cd it)	9083 CI
#1 Is the SCM sized to treat the SW from all surfaces at build-out?	Yes	#7 If applicable, with the SCM be cleaned out after construction?	Yes
#Z Is the SCM located on or near contaminated soils?	ON.	#8 Does the mainetenance access comply with General MDC (8)?	Yes
#3 What are the side slopes of the SCM (H:V)?	3:1	#9 Does the drainage easement comply with General MDC (9)?	Yes
#3 Does the SCM have retaining walls, gabion walls or other engineered side slopes?	SN SN	#10 If the SCM is on a single family lot, does the plat comply with General MDC (10)?	· · · · · · · · · · · · · · · · · · ·
#4 Are the inlets, outlets, and receiving stream protected from erosion (10-year storm)?	Yes	#11 Is there an O&M Agreement that complies with General MDC (11)?	Yes
#5 Is there a a bypass for flows in excess of the design flow?	Yes	#12 Is there an O&M Plan that complies with General MDC (12)?	Yes
#6 What is the method for dewatering the SCM for maintenance?	Pump (preferred)	#13 Was the SCM designed by an NC licensed professional?	Yes
WET POND MDC FROM 02H .1053			
#1 Melhod used	SADA	#6 Width of the vegetated shelf (feet)	99
#1 Surface area of the main permanent pool (square feet)	5602 sf	#6 Location of vegetated shelf	Submerged
#1 Volume of the main permanent pool (cubic feet)	11258 cf	#6 Elevation of top of shelf (finst)	34.5
#2 Average depth of the main pool (feet)	4#	#6 Elevation of bottom of shelf (fmsl)	33.5
#2 Was the vegetated shelf included in the calculation of average depth?	No	#6 Stope of vegetated shelf (H:V)	6:1
#2 Elevation of the bottom of the permanent pool (fmst)	24.5	#7 Diameter of drawdown orifice (inches)	1.3 in
#2 Elevation of the top of the permanent pool (fmst)	34.5	#7 Drawdown time for the temporary pool (hours)	68 444hrs
#2 Elevation of the top of the temporary pool (fmsl)	35.5 345E	#7 Does the orifice drawdown from below the top surface of the permanent pool?	Yes
#3 Depth provided for sediment storage (inches)	12 in	#8 Does the pond minimize impacts to the receiving channel from the 1-yr, 24-hr storm?	Yes
#4 Are the inte((s) and outlet located in a manner that avoids short-circuiting?	Yes	#9 Are fountains proposed?	ON.
#4 Describe any measures, such as berms or baffles, that will be taken to improve the flow path:		#9 If yes, is documentation provided per Wet Pond MDC (9)?	
Berm between forebay and main pond		#10 Is a trash rack or other device provided to protect the outlet system?	Yes
#5 Volume of the forebay (cubic feet)	1858	#11 Are the dam and embankment planted in non-clumping turf grass?	Yes
#5 is this 15-20% of the volume in the main pool?	Yes	#11 Species of turf that will be used on the dam and embankment	See plan
#5 Depth of forebay at entrance (inches)	42 in	#11 Describe the planting plan for the vegetated shelf:	
#5 Depth of forebay at exit (inches)	2	See plans	
#5 Does water flow out of the forebay in a non-erosive manner?	Yes		
#5 Clean-out depth for forebay (inches)	30 in		
#5 Will the forebay be cleaned out when the depth is reduced to less than the above?	Yes		

Perm	it Number:
	(to be provided by City of Wilmington)
ВМР	Drainage Basin #:

Wet Detention Basin Operation and Maintenance Agreement

I will keep a maintenance record on this BMP. This maintenance record will be kept in a log in a known set location. Any deficient BMP elements noted in the inspection will be corrected, repaired or replaced immediately. These deficiencies can affect the integrity of structures, safety of the public, and the removal efficiency of the BMP.

The wet detention basin system is defined as the wet detention basin, pretreatment including forebays and the vegetated filter if one is provided.

This system (<i>check one</i>): \square does \boxtimes does not	incorporate a vegetated filter at the outlet.
This system (<i>check one</i>): \square does \square does not	incorporate pretreatment other than a forebay.

Important maintenance procedures:

- Immediately after the wet detention basin is established, the plants on the vegetated shelf and perimeter of the basin should be watered twice weekly if needed, until the plants become established (commonly six weeks).
- No portion of the wet detention pond should be fertilized after the first initial fertilization that is required to establish the plants on the vegetated shelf.
- Stable groundcover should be maintained in the drainage area to reduce the sediment load to the wet detention basin.
- If the basin must be drained for an emergency or to perform maintenance, the flushing of sediment through the emergency drain should be minimized to the maximum extent practical.
- Once a year, a dam safety expert should inspect the embankment.

After the wet detention pond is established, it should be inspected **once a month and within 24 hours after every storm event greater than 1.5 inches**. Records of operation and maintenance should be kept in a known set location and must be available upon request. Inspection activities shall be performed as follows. Any problems that are found shall be repaired immediately.

BMP element:	Potential problem:	How I will remediate the problem:
The entire BMP	Trash/debris is present.	Remove the trash/debris.
The side slopes of the wet detention basin	Areas of bare soil and/or erosive gullies have formed.	Regrade the soil if necessary to remove the gully, and then plant a ground cover and water until it is
GEIVEN		established. Provide lime and a one-time fertilizer application.
W. 1817 2017 U	Vegetation is too short or too long.	Maintain vegetation at a height of approximately six inches.

BMP element:	Potential problem:	How I will remediate the problem:
The inlet device: pipe or swale	The pipe is clogged.	Unclog the pipe. Dispose of the sediment off-site.
	The pipe is cracked or	Replace the pipe.
	otherwise damaged.	
	Erosion is occurring in the	Regrade the swale if necessary to
	swale.	smooth it over and provide erosion
		control devices such as reinforced
		turf matting or riprap to avoid
		future problems with erosion.
The forebay	Sediment has accumulated to	Search for the source of the
	a depth greater than the	sediment and remedy the problem if
	original design depth for	possible. Remove the sediment and
	sediment storage.	dispose of it in a location where it
		will not cause impacts to streams or the BMP.
	Erosion has occurred.	Provide additional erosion
		protection such as reinforced turf
		matting or riprap if needed to
		prevent future erosion problems.
	Weeds are present.	Remove the weeds, preferably by
		hand. If pesticide is used, wipe it on
		the plants rather than spraying.
The vegetated shelf	Best professional practices	Prune according to best professional
	show that pruning is needed	practices
	to maintain optimal plant health.	
	The plant community and	Restore plant vegetation to
	coverage is significantly	approved condition. If landscape
	(>25%) different from	plan needs to be adjusted to specify
	approved landscape plan.	vegetation more appropriate for site
		conditions, contact City Stormwater
		or Engineering Staff.
	Cattails or other invasive	Remove all invasives by physical
	plants cover >25% of the veg't	removal or by wiping them with
	shelf. A monculture of plants	pesticide (do not spray) - consult a
	must be avoided)	professional.
	Plants are dead, diseased or	Determine the source of the
	dying.	problem: soils, hydrology, disease,
		etc. Remedy the problem and
		replace plants. Provide a one-time
		fertilizer application to establish the
		ground cover if a soil test indicates
Parts • ·		it is necessary.
The main treatment area	Sediment has accumulated to	Search for the source of the
	a depth greater than the	sediment and remedy the problem if
	original design sediment	possible. Remove the sediment and
	storage depth.	dispose of it in a location where it
		will not cause impacts to streams or
		the BMP.

BMP element:	Potential problem:	How I will remediate the problem:
The main treatment area	Algal growth covers over	Consult a professional to remove
(continued)	25% of the area.	and control the algal growth.
	Cattails or other invasive	Remove all invasives by physical
	plants cover >25% of the veg't	removal or by wiping them with
	shelf. A monculture of plants	pesticide (do not spray) - consult a
	must be avoided)	professional.
The embankment	Shrubs have started to grow on the embankment.	Remove shrubs immediately.
	Evidence of muskrat or	Use traps to remove muskrats and
	beaver activity is present.	consult a professional to remove
	Tourist state of the state of t	beavers.
	A tree has started to grow on	Consult a dam safety specialist to
	the embankment.	remove the tree.
	An annual inspection by an	Make all needed repairs.
	appropriate professional	
	shows that the embankment	
,	needs repair. (if applicable)	
The outlet device	Clogging has occurred.	Clean out the outlet device. Dispose
		of the sediment off-site.
	The outlet device is damaged	Repair or replace the outlet device.
The receiving water	Erosion or other signs of	Contact the local NC Division of
3	damage have occurred at the	Water Quality Regional Office, or
	outlet.	the 401 Oversight Unit at 919-733-
		1786.

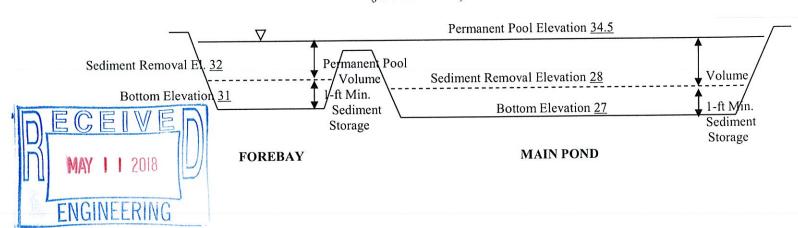
The measuring device used to determine the sediment elevation shall be such that it will give an accurate depth reading and not readily penetrate into accumulated sediments.

When the permanent pool depth reads <u>6.5</u> feet in the main pond, the sediment shall be removed.

When the permanent pool depth reads <u>2.5</u> feet in the forebay, the sediment shall be removed.

BASIN DIAGRAM

(fill in the blanks)



Permit Num	ber:
(to be	provided by City of Wilmington)

I acknowledge and agree by my signature below that I am responsible for the performance of the maintenance procedures listed above. I agree to notify the City of Wilmington of any problems with the system or prior to any changes to the system or responsible party.

Project name: Coastal Finance Retail Center
BMP drainage basin number: 1
Print name: John Rendrow
Title: Partner
Address: 3602 Market Street Wilmington NC 28403
Phone: 910 622 8590
Phone: 910 622 8590 Signature: 910 622 8590
Date: 10-/3 17
Note: The legally responsible party should not be a homeowners association unless more than 50% of the lots have been sold and a resident of the subdivision has been named the president.
I, JAILP BENNIS, a Notary Public for the State of
NOLTH CAZOLINA, County of NEW HANDUER, do hereby certify that
Jun Renflow personally appeared before me this 13
day of Octo Ben., zo17, and acknowledge the due execution of the
forgoing wet detention basin maintenance requirements. Witness my hand and official
seal,
SEAL
My commission expires 12.4-202/