



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: Summerlin Place, LLC

PROJECT:

Wrightsville Landing

ADDRESS:

5715 Wrightsville Avenue

PERMIT #:

2020027

DATE:

09/14/2020

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 09/14/2030 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 09/14/2020.
- 2. The project will be limited to the amount and type of built-upon area indicated in 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.
- The permittee shall submit a revised stormwater management application packet to 5. 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
 - e. Construction of any permitted future areas shown on the approved plans.





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- 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.
- 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:

Scheduled inspections (interval noted on the agreement).

b. Sediment removal.

Moving 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.





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- 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.
- 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.





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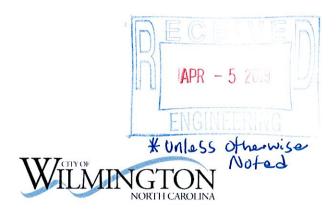
- 21. The permit issued shall continue in force and effect until revoked or terminated by the City of Wilmington. The permit may be modified, revoked and reissued or terminated for cause. The filing of a request for a permit modification, revocation and re-issuance or termination does not stay any permit 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 18th day of September, 2020

for Sterling Cheatham, City Manager

City of Wilmington

SWP2020027





Public Services
Engineering
212 Operations Center Dr
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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.):
	Wrightsville Landing
2.	Location of Project (street address):
	5715 Wrightsville Avenue
	City: Wilmington County: New Hanover Zip: 28403
3.	Directions to project (from nearest major intersection): Project is located off Wrightsville Avenue adjacent to the Shell Road Village Development
II.	PERMIT INFORMATION
1.	Specify the type of project (check one): $\ \square$ Low Density $\ \boxtimes$ 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:



III. CONTACT INFORMATION

۱.	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: Summerlin Place, LLC
	Signing Official & Title: John R Lancaster - Member
	a. Contact information for Applicant / Signing Official:
	Street Address: PO Box 381
	City: Wrightsville Beach State: NC Zip: 28480
	Phone:Fax:Email: _jlancaster500@gmail.com
	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: Herman I. Summerlin, Jr
	Signing Official & Title: Herman I. Summerlin, Jr - Owner
	a. Contact information for Property Owner:
	Street Address: 5449 Ridgewood Heights Drive
	City: Wilmington State: NC Zip: 28403
	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:



a. Contact information for person listed in item 3 above:

	City:	State:	Zip:	
	Phone: Fax:	Email:		
	Mailing Address (if different than physical address	s):		
	City:			
	Oity.	Otato.		
V.	PROJECT INFORMATION			
	In the space provided below, briefly summarize how t	the stormwa	ter runoff will be treated.	
	The Stormwater for this project will be treated by 2 wet			
<u>.</u>	Total Property Area: 230,253 square feet			
	Total Coastal Wetlands Area: square	feet		
	Total Surface Water Area: square fee			
	Total Property Area (2) – Total Coastal Wetlands Are Project Area: 230,253 square feet.		Surface Water Area (4) =	Total
i.	Existing Impervious Surface within Property Area:2	21,119	square feet	
	Existing Impervious Surface to be Removed/Demolish			
		9711.700		
	Existing Impervious Surface to Remain:			
	Total Onsite (within property boundary) Newly Constr	ructed Imper	vious Surface (in square f	eet):
Γ	Buildings/Lots		31,813	
-	Impervious Pavement		31,130	
- 1	Pervious Pavement (adj. total, with % credit applie	ed)		
-			7,800	
	Impervious Sidewalks			
		ed)		
		ed)		
	Pervious Sidewalks (adj. total, with % credit applie	ed)		



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

Impervious Pavemen	t		427
Pervious Pavement	(adj. total, with	% credit applied)	
Impervious Sidewalk	S		836
Pervious Sidewalks	(adj. total, with	% credit applied)	
Other (describe)			
Total Offsite Newly	Constructed Impe	rvious Surface	1,263

13.	Total Newly Constructed Impervious Surface			
	(Total Onsite + Offsite Newly Constructed Impervious Surface)	= .	72,006	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	BMP #1	BMP #2	BMP#
Receiving Stream Name	UT to Bradley Creek	UT to Bradley Creek	
Receiving Stream Index Number	18-87-24-4-(1)	18-87-24-4-(1)	
Stream Classification	SC	SC	
Total Drainage Area (sf)	40,630	76,604	
On-Site Drainage Area (sf)			
Off-Site Drainage Area (sf)			
Total Impervious Area (sf)	21,592	49,151	
Buildings/Lots (sf)	4,667	27,146	
Impervious Pavement (sf)	12,725	18,405	
Pervious Pavement (sf)			
Impervious Sidewalks (sf)	4,200	3,600	
Pervious Sidewalks (sf)			
Other (sf) -			
Future Development (sf)			
Existing Impervious to remain (sf)			
Offsite (sf)			
Percent Impervious Area (%)	53.1	64.2	

15. How was the off-site impervious area listed above determined? Provide documentation:	
Site entrance & sidewalk in Right of Way	



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 212 Operations Center Dr Wilmington, NC 28412



VI. CONSULTANT INFORMATION AND AUTHORIZATION

 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: Garry S. Pape, P.E.
Consulting Firm: GSP CONSULTING, PLLC.
a. Contact information for consultant listed above:
Mailing Address: 6626-C Gordon Road
City: Wilmington State: NC Zip: 28411
Phone: 910-442-7870 Fax: 910-799-6659 Email: gpape@gsp-consulting.com
VII. PROPERTY OWNER AUTHORIZATION (If Section III(2) has been filled out, complete this section)
I, (print or type name of person listed in Contact Information, item 2) Herman I. Summerlin, Jr., certify that I own the property identified in this permit application, and thus give permission to (print or type name of person listed in Contact Information, item 1) John R Lancaster with (print or type name of organization listed in Contact Information, item 1) Summerlin Place, LLC to develop the project as currently proposed. A copy of the lease agreement or pending property sales contract has been provided with the submittal, which indicates the party responsible for the operation and maintenance of the stormwater system. As the legal property owner I acknowledge, understand, and agree by my signature below, that if my designated agent (entity listed in Contact Information, item 1) dissolves their company and/or cancels or defaults on their lease agreement, or pending sale, responsibility for compliance with the City of Wilmington Stormwater Permit reverts back to me, the property owner. As the property owner, it is my responsibility to notify the City of Wilmington immediately and submit a completed Name/Ownership Change Form within 30 days; otherwise I will be operating a stormwater treatment facility without a valid permit. I understand that the operation of a stormwater treatment facility without a valid permit is a violation of the City of Wilmington Municipal Code of Ordinances and may result in appropriate enforcement including the assessment of civil penalties.
Date: 130 19 Melinda S. Faulk, a Notary Public for the State of North Caroling. County of
New Homoven do hereby certify that Herman I. Summer linger., personally appeared
pefore me this 30, day of
or a stormwater permit. Witness my hand and official seal, Ufilinda S. Faulh
MELINDA S. FAULK Notary Public, North Carolina New Hanover County My Commission Expires



VIII. APPLICANT'S CERTIFICATION

I, (print or type name of person lister	d in Contact Information, item 1), <u>John R Lancaster</u>	certify
that the information included	on this permit application form is, to the best of	my knowledge, correct and
that the project will be constru	cted in conformance with the approved plans,	that the required deed
restrictions and protective cov	renants will be recorded, and that the proposed	project complies with the
requirements of the applicable	e stormwater rules under.	
11/1/2		1 20 10
Signature:	Date:	1-28-19
1, Marsha K. Cowar	+, a Notary Public for the State of NC	, County of
New Kanover, do hereby	certify that John R. Lancaster	, personally appeared
before me this 28th, day of	my hand and official seal, Marsha 16 (execution of the application
for a stormwater permit. Witness	my hand and official seal, Marsha IC ("ovart
SEAL OF CHAK, CO		
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D. D. D.		
i i work		
E. PUBLIC :01		
	7 .7 5	7 010
aga Alvanor and	My commission expires: 5 25-	2019
O VER COUNTY		
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SUPPLEMENT-EZ FORM COVER PAGE

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

Dry Pond	Treatment Swale	Disconnected Impervious Surface	Level Spreader-Filter Strip	Green Roof	Rainwater Harvesting	Sand Filter	Permeable Pavement	Stormwater Wetland	Wet Pond 2 Pond #1 Front of Sit	Bioretention Cell	Infiltration System	Quantity
						A STATE OF THE STA			Pond #1 Front of Site, Ponds #2 Middle of Site			Location(s)

Project Name:

Wrightsville Landing

Address

5715 Wrightsville Avenue

City / Town

Wilmington

Designer information for this project:

Garry S. Pape, P.E.
GSP Consulting, PLLC
6626 Gordon Road, Unit C
Wilmington, NC 28411
910-442-7870
gpape@gsp-consulting.com
00000

Applicant:

Company:	Summerlin Place, LLC
Contact:	John Lancaster
Mailing Address:	PO Box 381
City, State, Zip:	Wrightsville Beach, NC 28480
Phone number(s):	
Email:	

<u>Designer</u>



Signature of Designer

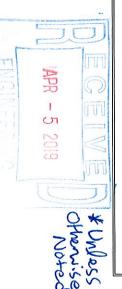
03/15/2019 Date

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.



WET POND

Wrightsville Landing - Pond #1

e cleaned out after construction? es comply with General MDC (8)? tt comply with General MDC (9)? It that complies with General MDC (10)? It that complies with General MDC (11)? complies with General MDC (12)? an NC licensed professional? (feet) (feet) (feet) (feet) (fons) (y) (fins) (y) (finches) (orary pool (hours) (orary po	8 + + + + + + + + + + + + + + + + + + +	Yes Yes Pump (preferred) SA/DA 4,899 sf 12,668 sf 3,0 ft Yes 6,0 ft 11,42 ft 12 in Yes ath: 2,175 Yes 60 in 36 in Yes 12 in	#5 Is tire is a a bypass for lows in caces of the uesign low? WET POND MDC FROM 02H .1053 #1 Method used #1 Surface area of the main permanent pool (square feet) #1 Volume of the main permanent pool (cubic feet) #2 Average depth of the main pool (feet) #2 Was the vegetated shelf included in the calculation of average depth? #2 Elevation of the top of the permanent pool (fmsl) #2 Elevation of the top of the temporary pool (fmsl) #3 Depth provided for sediment storage (inches) #4 Are the inlet(s) and outlet located in a manner that avoids short-circuiting? #4 Describe any measures, such as berms or baffles, that will be taken to improve the flow path: #5 Depth of forebay at entrance (inches) #5 Depth of forebay at entrance (inches) #5 Dess water flow out of the forebay in a non-erosive manner? #5 Clean-out depth for forebay (inches)
e cleaned out after construction? ess comply with General MDC (8)? tt comply with General MDC (9)? mily lot, does the plat comply with General MDC (10)? tt that complies with General MDC (11)? complies with General MDC (12)? an NC licensed professional? (feet) (feet) (feet) (feet) (fons) (y) e (inches) orary pool (hours) set on the dam and embankment for the vegetated shelf:	S		What is the method for dewatering the SCM for me ET POND MDC FROM 02H .1053 Method used Surface area of the main permanent pool (square: Volume of the main permanent pool (cubic feet) Average depth of the main pool (feet) Was the vegetated shelf included in the calculation Elevation of the bottom of the permanent pool (fms) Elevation of the top of the temporary pool (fms) Elevation of the top of the temporary pool (fms) Depth provided for sediment storage (inches) Are the inlet(s) and outlet located in a manner that Describe any measures, such as berms or baffles, Volume of the forebay (cubic feet) Is this 15-20% of the volume in the main pool? Depth of forebay at entrance (inches) Depth of forebay at exit (inches) Depth of forebay at exit (inches)
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e cleaned out after construction? ess comply with General MDC (8)?	#10 If the SCM is on a single	No	#3 Does the SCM have retaining walls, gabion walls or other engineered side slopes?
e cleaned out after construction?	#9 Does the drainage easer	2:1	#3 What are the side slopes of the SCM (H:V)?
e cleaned out after construction?	#8 Does the mainetenance	No	#2 Is the SCM located on or near contaminated soils?
	#7 If applicable, with the SC	Yes	#1 Is the SCM sized to treat the SW from all surfaces at build-out?
			GENERAL MDC FROM 02H .1050
	Design volume of SCM (cu ft)		
2.683 sf	Minimum volume required (cu ft)		2017
1.5 in	Design rainfall depth (in)		Stormwater program(s) that apply (please specify):
			COMPLIANCE WITH THE APPLICABLE STORMWATER PROGRAM
21,592 sf	Total BUA (sq ft)	53.1%	Percent BUA of drainage area
- Other, please specify in the comment box below (sq ft) - Amenity Area	 Other, please specify in the 	21,592 sf	Proposed new BUA (sq ft)
12,725 sf	- Roadway (sq ft)		BUA associated with existing development (sq ft)
4,667 sf	- Roof (sq ft)	40,630 sf	Total drainage area (sq ft)
4,200 sf	- Sidewalk (sq ft)		Total surface water area (sq ft)
	- Parking / driveway (sq ft)		Total coastal wetlands area (sq ft)
drainage area (both new and existing):	Break down of BUA in the drain	1	Drainage area number

#5 Will the forebay be cleaned out when the depth is reduced to less than the above? ADDITIONAL INFORMATION

Please use this space to provide any additional information about this wet pond that you think is relevant to the review





WET POND

Wrightsville Landing - Pond #2

			ADDITIONAL INFORMATION
		Yes	#5 Will the forebay be cleaned out when the depth is reduced to less than the above?
		12 in	#5 Clean-out depth for forebay (inches)
		Yes	#5 Does water flow out of the forebay in a non-erosive manner?
	See Plans	36 in	#5 Depth of forebay at exit (inches)
	#11 Describe the planting plan for the vegetated shelf:	60 in	#5 Depth of forebay at entrance (inches)
Centipede	#11 Species of turf that will be used on the dam and embankment	Yes	#5 Is this 15-20% of the volume in the main pool?
Yes	#11 Are the dam and embankment planted in non-clumping turf grass?	1,730	#5 Volume of the forebay (cubic feet)
Yes	#10 Is a trash rack or other device provided to protect the outlet system?		
	#9 If yes, is documentation provided per Wet Pond MDC (9)?		#4 Describe any measures, such as berms or baffles, that will be taken to improve the flow path:
No	#9 Are fountains proposed?	Yes	#4 Are the inlet(s) and outlet located in a manner that avoids short-circuiting?
Yes	#8 Does the pond minimize impacts to the receiving channel from the 1-yr, 24-hr storm?	12 in	#3 Depth provided for sediment storage (inches)
Yes	#7 Does the orifice drawdown from below the top surface of the permanent pool?	10.1 ft	#2 Elevation of the top of the temporary pool (fmsl)
49.2 hrs	#7 Drawdown time for the temporary pool (hours)	9.0 ft	#2 Elevation of the top of the permanent pool (fmsl)
1.5 in	#7 Diameter of drawdown orifice (inches)	2.0 ft	#2 Elevation of the bottom of the permanent pool (fmsl)
6:1	#6 Slope of vegetated shelf (H:V)	Yes	#2 Was the vegetated shelf included in the calculation of average depth?
8.5 ft	#6 Elevation of bottom of shelf (fmsl)	3.5 ft	#2 Average depth of the main pool (feet)
9.5 ft	#6 Elevation of top of shelf (fmsl)	10,477 sf	#1 Volume of the main permanent pool (cubic feet)
Above Normal Pool	#6 Location of vegetated shelf	3,770 sf	#1 Surface area of the main permanent pool (square feet)
61	#6 Width of the vegetated shelf (feet)	SA/DA	#1 Method used
			WET POND MDC FROM 02H .1053
Yes	Pump (preferred) #13 Was the SCM designed by an NC licensed professional?	ump (preferred)	#6 What is the method for dewatering the SCM for maintenance?
Yes	#12 Is there an O&M Plan that complies with General MDC (12)?	Yes	#5 Is there a a bypass for flows in excess of the design flow?
Yes	#11 Is there an O&M Agreement that complies with General MDC (11)?	Yes	#4 Are the inlets, outlets, and receiving stream protected from erosion (10-year storm)?
N/A	#10 If the SCM is on a single family lot, does the plat comply with General MDC (10)?	No	#3 Does the SCM have retaining walls, gabion walls or other engineered side slopes?
Yes	#9 Does the drainage easement comply with General MDC (9)?	3:1	#3 What are the side slopes of the SCM (H:V)?
Yes	#8 Does the mainetenance access comply with General MDC (8)?	No	#2 Is the SCM located on or near contaminated soils?
Yes	#7 If applicable, with the SCM be cleaned out after construction?	Yes	#1 Is the SCM sized to treat the SW from all surfaces at build-out?
			GENERAL MDC FROM 02H .1050
6,332 sf	Design volume of SCM (cu ft)		
6,008 sf	Minimum volume required (cu ft)		2017
1.5 in	Design rainfall depth (in)		Stormwater program(s) that apply (please specify):
			COMPLIANCE WITH THE APPLICABLE STORMWATER PROGRAM
49,151 sf	Total BUA (sq ft)	64.2%	Percent BUA of drainage area
0 sf	- Other, please specify in the comment box below (sq ft)	49,151 sf	Proposed new BUA (sq ft)
18,405 sf	- Roadway (sq ft)		BUA associated with existing development (sq ft)
27,146 sf	- Roof (sq ft)	76,604 sf	Total drainage area (sq ft)
3,600 sf	- Sidewalk (sq ft)		Total surface water area (sq ft)
0 sf	- Parking / driveway (sq ft)		Total coastal wetlands area (sq ft)
CONTRACTOR	Diego nowii oi Doo iii die digiliage gieg (boul liew gild existing).	7	Diamage area number

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Project Name: Wrightsville Landing
Project Location: 5715 Wrightsville Avenue

Cover Page

Maintenance records shall be kept on the following BMP(s). This maintenance record shall 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 pollutant removal efficiency of the BMP(s).

affect the integrity of structures, safety of the pu	blic, and the po	ollutant re	moval efficie	ncy of the BMP(s).	
The BMP(s) on this project include (check all that	at apply & corre	esnondina	n O&M tables	will be added autom	natically):
Bioretention Cell	Quantity:	ооронан	Location(s):	VIII DO GAGOS GAGOS	
Dry Detention Basin	Quantity:		Location(s):		
Grassed Swale	Quantity:		Location(s):		
Green Roof	Quantity:		Location(s):		
Infiltration Basin	Quantity:		Location(s):		
Infiltration Trench	Quantity:		Location(s):		
Level Spreader/VFS	Quantity:		Location(s):		
Permeable Pavement	Quantity:		Location(s):		
Proprietary System	Quantity:		Location(s):		
Rainwater Harvesting	Quantity:		Location(s):		
Sand Filter	Quantity:		Location(s):		
Stormwater Wetland	Quantity:		Location(s):		
Wet Detention Basin	Quantity:	2		Middle of Site	
Disconnected Impervious Area	Present:	No	Location(s):		
User Defined BMP	Present:	No	Location(s):		
* Responsible Party: John F Title & Organization: Memb Street address: PO Bo City, state, zip: Wrigh Phone number(s): Email: jlanca:	er - Summerli x 381	NC 2848			
Signature:				Date:	1-28-19
1. Marsha K. Cowart			Public for the		
County of New Manaver		do hearb	y certify that	John R.	Lancaster
	28+5	day of		4 2019	and
acknowledge the due execution of the Operation	ns and Mainter	nance Agr	reement .	1	
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Wet Detention Pond Maintenance Requirements

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

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**1.0 inches (or 1.5 inches if in a Coastal County). 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 perimeter of the BMP	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 established. Provide lime and a one-time fertilizer application.		
	Vegetation is too short or too long.	Maintain vegetation at a height of approximately six inches.		
The inlet device	The pipe is clogged.	Unclog the pipe. Dispose of the sediment off-site.		
	The pipe is cracked or otherwise damaged.	Replace the pipe.		
	Erosion is occurring in the swale.	Regrade the swale if necessary to smooth it over and provide erosion control devices such as reinforced turf matting or riprap to avoid future problems with erosion.		
	Stone verge is clogged or covered in sediment (if applicable).	Remove sediment and replace with clean stone.		
The forebay	Sediment has accumulated to a depth greater than the original design depth for sediment storage.	Search for the source of the sediment and remedy the problem if possible. Remove the sediment and 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 show that pruning is needed to maintain optimal plant health.	Prune according to best professional practices		
	Plants are dead, diseased or dying.	Determine the source of the 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 it is necessary.		
	Weeds are present.	Remove the weeds, preferably by hand. If pesticide is used, wipe it on the plants rather than spraying.		

Wet Detention Pond Maintenance Requirements (Continued)

The main treatment area	Sediment has accumulated to a depth greater than the original design sediment storage depth.	possible. Remove the sediment and dispose of it in a location where it will not cause impacts to streams or the BMP.		
	Algal growth covers over 50% of the area.	Consult a professional to remove and control the algal growth.		
	Cattails, phragmites or other invasive plants cover 50% of the basin surface.	Remove the plants by wiping them with pesticide (do not spray).		
The embankment	Shrubs have started to grow on the embankment.	Remove shrubs immediately.		
	Evidence of muskrat or beaver activity is present.	Use traps to remove muskrats and consult a professional to remove beavers.		
	A tree has started to grow on the embankment.	Consult a dam safety specialist to remove the tree.		
	An annual inspection by an appropriate professional shows that the embankment	Make all needed repairs.		
	needs repair. (if applicable)	Class set the settlet device. Dispense of the padiment off site		
The outlet device	Clogging has occurred. The outlet device is damaged	Clean out the outlet device. Dispose of the sediment off-site. Repair or replace the outlet device.		
The receiving water Erosion or other signs of		Contact the local NC Department of Environment and Natural Resources Regional Office.		

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.

Wet Detention Pond Design Summary **Wet Pond Diagram** WET POND ID **FOREBAY** MAIN POND 11.0 Permanent Pool El. 11.0 Permanent Pool El. 11.42 Temporary Pool EI: 11.42 Temporary Pool El: Clean Out Depth: 5.0 Pretreatment other Clean Out Depth: 5.0 No 6.0 Sediment Removal El: 6.0 Sediment Removal El: than forebay? 5.0 Bottom Elevation: Has Veg. Filter? No Bottom Elevation: 5.0 WET POND ID **FOREBAY** MAIN POND 9.0 9.0 Permanent Pool El. Permanent Pool El. 10.1 Temporary Pool EI: 10.1 Temporary Pool El: Clean Out Depth: 7.0 Pretreatment other Clean Out Depth: 4.0 No Sediment Removal El: 2.0 Sediment Removal El: 5.0 than forebay? 1.0

Bottom Elevation:

4.0

Bottom Elevation:

Has Veg. Filter?

No