



Public Services

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

1/4/2022

Shelly Bishop, Managing Partner Raleigh-Wilmington Investors, LLC 6131 Falls of Neuse Road Raleigh, NC 27609

Subject:

Stormwater Management Permit No. 2021001R1

East and Mason Subdivision **High Density - Wet Ponds**

Dear Shelly Bishop:

The City of Wilmington Engineering Division has received a request for a revision to the Stormwater Management Permit for East and Mason Subdivision. Having reviewed the application and all supporting materials, the City of Wilmington has determined that the proposed revision meets the requirements of the City of Wilmington's Comprehensive Stormwater Ordinance.

The revisions include:

Addition of amenity building with associated parking, conversion of roads from private to public, and lot 171 swale grading. Please find updated application and supplements attached.

Please be aware all terms and conditions of the permit 1/21/2021 remain in full force and effect. Any additional changes to the approved plans must be approved by this office prior to construction. The issuance of the plan revision does not preclude the permittee from complying with all other applicable statutes, rules, regulations or ordinances which may have jurisdiction over the proposed activity, and obtaining a permit or approval prior to construction.

The revised stamped, approved stormwater management drawings will be released for construction by the Wilmington Planning Division under separate cover. Please replace any old plan sheets from the approved set with the new, revised sheet. An electronic copy of the approved drawing set, permit, application and supplementary documents will be maintained by the Wilmington Engineering Division. If you have any questions, or need additional information, please contact Eric Seidel, PE at (910) 765-7461 or eric.seidel@wilmingtonnc.gov

Sincerely,

for Anthony Caudle, City Manager City of Wilmington

5-502

Dan Fisk, PE, Paramounte Engineering, Inc. CC:

Patrick O'Mahony, Wilmington Development Services/Planning



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I. GENERAL INFORMATION

STORMWATER MANAGEMENT PERMIT APPLICATION FORM (Form SWP 2.2)

1. Project Name (subdivision, facility, or establishment name - should be consistent with project name on plans, specifications, letters, operation and maintenance agreements, etc.): East and Mason Subdivision Location of Project (street address): 7500 Masonboro Sound Rd Zip: 28409 City: Wilmington County: New Hanover Directions to project (from nearest major intersection): Travel south along Masonboro Loop Rd, approximately 0.2 miles project is on your left across from Beasley across from Beasley Rd 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)

Additional Project Permit Requirements (check all applicable):
 □ CAMA Major Sedimentation/Erosion Control

If yes, list all applicable Stormwater Permit Numbers:

Stormwater Permit? Yes No

City of Wilmington: 2021001

□ NPDES Industrial Stormwater 404/401 Permit: Proposed Impacts: 0.45 Acres

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:

State - NCDENR/DWQ:



III. CONTACT INFORMATION

1.	 Print Applicant / Signing Official's name and title (spec designated government official, individual, etc. who ow 	wns the project):
	Applicant / Organization: Raleigh-Wilmington Investors, I	LLC
	Signing Official & Title: Shelly Bishop	
	a. Contact information for Applicant / Signing Offi	cial:
	Street Address: 6131 Falls of Neuse Rd	
		tate: NC Zip: 27609
	Phone: 919-876-9200 Fax: 910-791-6760 Er	
	Mailing Address (if different than physical address)):
	City:St	tate:Zip:
	b. Please check the appropriate box. The applica	ant listed above is:
	 The property owner (Skip to item 3) Lessee* (Attach a copy of the lease agreement and core Purchaser* (Attach a copy of the pending sales agreer ✓ Developer* (Complete items 2 and 2a below.) 	
2.	. Print Property Owner's name and title below, if you are the person who owns the property that the project is o	
	Property Owner / Organization: East & Mason Develope	
	Signing Official & Title: Shelly Bishop - Manager of TBM	
	a. Contact information for Property Owner: Street Address: 6131 Falls of Neuse Rd	
		tate: NC Zip: 27609
	Phone: 919-876-9200 Fax: 910-791-6760 En	
	Mailing Address (if different than physical address)):
	City:St	tate:Zip:
3.	. (Optional) Print the name and title of another contact s or another person who can answer questions about th	
	Other Contact Person / Organization:	
	Signing Official & Title:	



	 a. Contact information for 						
	Street Address:						
	City:			State:	Zip:		
	Phone:						
	Mailing Address (if differe			15,000			
	City:		SH • CANADA ANTONIA SCHOOL SHOOT AND SHOT AND SHOOT AND SHOT AND SHOOT AND SHOOT AND SHOOT AND SHOOT AND SHOOT AND S	•			
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/. P	ROJECT INFORMATION						
. In	the space provided below,	briefly su	mmarize how	the storm	vater runoff w	ill be treate	∌d.
S	tormwater runoff will be treate	d through	proposed wet p	onds.			
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_			***************************************			***************************************	
— T	otal Property Area: 2,800,03	86+/-	are feet				
. 10	otal Property Area: 2,000,00	squa	are reet				
		0					
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12. Total Offsite Newly Constructed Impervious Area (improvements made outside of property boundary, in square feet):

Impervious Pavement			2,120
Pervious Pavement (adj. total, with	% credit applied)	
Impervious Sidewalks			7,675
Pervious Sidewalks (adj. total, with	% credit applied)	
Other (describe)			
Total Offsite Newly Constructed Impervious Surface			9,795

13. Total Newly Constructed Impervious Surface		
(Total Onsite + Offsite Newly Constructed Impervious Surfa	$_{1,055,665}$	square feet

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 # 3
Receiving Stream Name	Masonboro Sound	Masonboro Sound	Masonboro Sound
Receiving Stream Index Number	18-87-25.7	18-87-25.7	18-87-25.7
Stream Classification	SA;ORW	SA;ORW	SA;ORW
Total Drainage Area (sf)	184,111	1,353,251	120,301
On-Site Drainage Area (sf)	184,111	1,353,251	120,301
Off-Site Drainage Area (sf)	0	0	0
Total Impervious Area (sf)	100,250	671,675	63,835
Buildings/Lots (sf)	56,250	425,750	40,500
Impervious Pavement (sf)	27,380	167,895	11,340
Pervious Pavement (sf)			
Impervious Sidewalks (sf)	8,688	42,285	3,635
Pervious Sidewalks (sf)			
Other (sf)		27,500	
Future Development (sf)	7,932	8,245	8,360
Existing Impervious to remain (sf)			
Offsite (sf)			
Percent Impervious Area (%)	54.5	49.6	53.1

15. How was the off-site impervious area listed above determined? Provide documentation: N/A



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# 4	BMP# 5	BMP#
Receiving Stream Name	Masonboro Sound	Masonboro Sound	
Receiving Stream Index Number	18-87-25.7	18-87-25.7	
Stream Classification	SA;ORW	SA;ORW	
Total Drainage Area (sf)	169,019	271,660	
On-Site Drainage Area (sf)	169,019	271,660	
Off-Site Drainage Area (sf)	0	0	
Total Impervious Area (sf)	96,940	113,170	
Buildings/Lots (sf)	54,000	69,750	
Impervious Pavement (sf)	25,125	26,967	
Pervious Pavement (sf)			
Impervious Sidewalks (sf)	9,325	7,648	***************************************
Pervious Sidewalks (sf)			
Other (sf)			
Future Development (sf)	8,490	8,805	
Existing Impervious to remain (sf)			
Offsite (sf)			
Percent Impervious Area (%)	57.4	41.7	

15. How was the off-site impervious area listed above determined? Provide documentation:



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

1	(such as a consulting engine this project (such as address	etion if you wish to designate authority to another individual and/or firm eer and /or firm) so that they may provide information on your behalf for sing requests for additional information).
	Consulting Engineer: Daniel	J. Fisk
	Consulting Firm: Paramounte	Engineering, Inc.
	a. Contact information f	or consultant listed above:
	Mailing Address: 122 Cin	
	City: Wilmington	State: NCZip: _28403
		_Fax: 910.791.6760 Email: dfisk@paramounte-eng.com
١	/II. PROPERTY OWNER AU	JTHORIZATION (If Section III(2) has been filled out, complete this section)
Pli pti s Add V r C v	person listed in Contact Information, item 1) Rested in Contact Information, item 1) Reproposed. A copy of the lease aghe submittal, which indicates the stormwater system. As the legal property owner I acludes the legal property owner I acludes agneted agent (entity listed in the legal property owner I acludes agreement of the legal property owner I acludes agreement I lease agreement I legal property owner I acludes agreement I legal property owner I legal p	certify that I s permit application, and thus give permission to (print or type name of m 1) Shelly Bishop with (print or type name of organization aleigh-Wilmington Investors, LLC to develop the project as currently greement or pending property sales contract has been provided with e party responsible for the operation and maintenance of the knowledge, understand, and agree by my signature below, that if my Contact Information, item 1) dissolves their company and/or cancels or not, or pending sale, responsibility for compliance with the City of everts back to me, the property owner. As the property owner, it is my f Wilmington immediately and submit a completed Name/Ownership therwise I will be operating a stormwater treatment facility without a new operation of a stormwater treatment facility without a valid permit is a non Municipal Code of Ordinances and may result in appropriate enforcement including the assessment of civil penalties.
-	SEAL	Signature:Date:
	ANN W. THIANI NOTARY PUBLIC WAKE COUNTY, N.C.	I,
١		personally appeared before me this day of JULY 1 , 2021.



the Minami	of the application for a stormwater permit. Witness my hand and official seal,
My commission expires: 10/30/3	
VIII. APPLICANT'S CERTIFIC	CATION
that the information included on that the project will be constructe	Contact Information, item 1), Shelly Bishop certify his permit application form is, to the best of my knowledge, correct and d in conformance with the approved plans, that the required deed ants will be recorded, and that the proposed project complies with the requirements of the applicable stormwater rules under.
ANN W. THIANI	Signature:
NOTARY PUBLIC WAKE COUNTY, N.C.	I, <u>ANN IO THIAN</u> , a Notary Public for the State of <u>NC</u> , County of <u>WAKE</u> , do
	hereby certify that <u>SHELLY R. BISHOP</u> personally appeared before me this day of <u>TULY 1</u> , <u>2021</u> , and acknowledge the due execution of the application for a stormwater
permit. Witness my hand and officia	
Am W. Thosaw	
My commission expires: _/@/30/3	2023

SUPPLEMENT-EZ COVER PAGE

FORMS LOADED

	Project Name	East & Mason
2	Project Area (ac)	64.28
3	Coastal Wetland Area (ac)	0
4	Surface Water Area (ac)	0.07
5	Is this project High or Low Density?	High
6	Does this project use an off-site SCM?	No

-	NAC HILL Constituted and beauty and ideal (for a)	F0
/	Width of vegetated setbacks provided (feet)	50
8	Will the vegetated setback remain vegetated?	MEELS . 1003 (4) (C.8)
9	Is BUA other that as listed in .1003(4)(c-d) out of the setback?	yes
10	Is streambank stabilization proposed on this project?	No

11	Infiltration System	0
12	Bioretention Cell	0
13	Wet Pond	5
14	Stormwater Wetland	0
15	Permeable Pavement	0
16	Sand Filter	0
17	Rainwater Harvesting (RWH)	0
18	Green Roof	0
19	Level Spreader-Filter Strip (LS-FS)	0
20	Disconnected Impervious Surface (DIS)	0
21	Treatment Swale	0
22	Dry Pond	0
23	StormFilter	0
24	Silva Cell	0
25	Bayfilter	0
26	Filterra	0

FORMS LOADED

DESIGNER CERTIFICATION		
27	Name and Title:	Daniel J. Fisk, PE
28	Organization:	Paramounte Engineering, Inc
29	Street address:	122 Cinema Drive
30	City, State, Zip:	Wilmington, NC 28403
31	Phone number(s):	910.791.6707
32	Email:	dfisk@paramounte-eng.com

Certification Statement:

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.

SEAL

O** CAROL

Signature of Designer

O** CAROL

Signature of Designer

O** CAROL

Date

DRAINAGE AREAS

Is this a high density project?	Yes
If so, number of drainage areas/SCMs	5
Is all/part of this project subject to previous rule	
versions?	9N

FORMS LOADED

DRAINAGE AREA INFORMATION	Entire Site	大学の日本の日本の日本の日本の日本の日本の日本の日本の日本の日本の日本の日本の日本の	かちませんというないというないというないと	STOCKED CONTRACTOR OF THE PROPERTY OF THE PROP	THE PROPERTY OF THE PARTY OF TH	AND THE RESIDENCE OF THE PARTY
4 Two of SCM		Wet Pond	Wet Pond	Wet Pond	Wet Pond	Wet Pond
	1045870 sf	100250 sf	671675 sf	63835 sf	96940 sf	113170 sf
	646250 sf	56250 sf	425750 sf	40500 sf	54000 sf	69750 sf
	399620 sf	44000 sf	245925 sf	23335 sf	42940 sf	43420 sf
8 Offsite - total area (sq ft)						
9 Offsite BUA (sq ft)						
10 Breakdown of new BUA outside subdivided lots:						
- Parking (sq ft)						
- Sidewalk (sq ft)	71581 sf	8688 sf	42285 sf	3635 sf	9325 sf	7648 sf
- Roof (sq ft)						
- Roadway (sq ft)	258707 sf	27380 sf	167895 sf	11340 sf	25125 sf	26967 sf
- Future (sq ft)	41832 sf	7932 sf	8245 sf	8360 sf	8490 sf	8805 sf
- Other, please specify in the comment box						
below (sq ft)	27500 sf		27500 sf			
11 subdivided lots (sq ft)		THE PROPERTY OF THE PARTY OF TH	がは、一般の一般の一般の一般の一般の一般の一般の一般の一般の一般の一般の一般の一般の一			
permitting) (sq n)						
14 Existing BUA that is already permitted (sq. ii) 15 Existing BUA that will be removed (sq.ft)						
	37.3	5.5	9. 2.	53.1	3.5	2.2
_	THE REAL PROPERTY OF THE PERSON NAMED IN COLUMN TWO IS NOT THE PERSON NAMED IN COLUMN TWO IS NAMED	3.65	3.85	3,85	3,65	3.85
18 Design volume of SCM (cu ft)	を	24489 cf	187985 cf	27664 cf	27148 cf	26186 cf
		SCS	SCS	SCS	SCS	SCS
1=						
Please use this space to provide any additional information about the 20 drainage area(s):	ition about the					
Pond #2 Other = Amenity allocation						

WET POND

211	Orainage area number Design volume of SCM (cu ft)	24489 cf	2 187985 cf	27664 cf	27148 cf	26186 cf
W. 2013 S	MDC FROM 02H .1050	24403 CI	107903 CI	2100401	2114001	20100 01
	s the SCM sized to treat the SW from all surfaces at build-out?	Yes	Yes	Yes	Yes	Yes
	s the SCM located away from contaminated soils?	Yes	Yes	Yes	Yes	Yes
	What are the side slopes of the SCM (H:V)?	3:1	6:1 3:1	3:1	3:1	3:1
	Does the SCM have retaining walls, gabion walls or other engineered	0.1	0.1	0.1	<u> </u>	0.7
	side slopes?	No	No	No	Yes	No
	Are the inlets, outlets, and receiving stream protected from erosion	110				tree to great and the
	10-year storm)?	Yes	Yes	Yes	Yes	Yes
	s there an overflow or bypass for inflow volume in excess of the					
	design volume?	No	No	No	No	No
9	What is the method for dewatering the SCM for maintenance?	Pump (preferred)	Pump (preferred)	Pump (preferred)	Pump (preferred)	Pump (preferred
	f applicable, will the SCM be cleaned out after construction?	Yes	Yes	Yes	Yes	Yes
11	Does the maintenance access comply with General MDC (8)?	Yes	Yes	Yes	Yes	Yes
12	Does the drainage easement comply with General MDC (9)?	Yes	Yes	Yes	Yes	Yes
	f the SCM is on a single family lot, does (will?) the plat comply with					
13	General MDC (10)?	N/K	N/A	NA	N/A	N/A
14	s there an O&M Agreement that complies with General MDC (11)?	Yes	Yes	Yes	Yes	Yes
15	s there an O&M Plan that complies with General MDC (12)?	Yes	Yes	Yes	Yes	Yes
16	Does the SCM follow the device specific MDC?	Yes	Yes	Yes	Yes	Yes
17	Was the SCM designed by an NC licensed professional?	Yes	Yes	Yes	Yes	Yes
FT PO	OND MDC FROM 02H .1053		CONTRACTOR OF THE PARTY OF THE	CONTRACTOR OF STREET		TO A STATE OF THE STATE OF
	Method used	SA/DA	SA/DA	SA/DA	SA/DA	SAVDA
	Has a stage/storage table been provided in the calculations?	Yes	Yes	Yes	Yes	Yes
	Elevation of the excavated main pool depth (bottom of sediment	103		100		,,,,
	removal) (fmsl)	14.00	13.00	13.00	14.00	10.00
-20	chioval) (misi)	14.00	10.00	10.00	11.00	10.00
21	Elevation of the main pool bottom-(top of sediment removal) (fmsl)	15.00	14.00	14.00	15.00	11.00
	Elevation of the bottom of the vegetated shelf (fmsl)	20.00	18.00	18.00	19.00	14.00
	Elevation of the permanent pool (fmsl)	21.00	19.00	19.00	20.00	15.00
	Elevation of the top of the vegetated shelf (fmsl)	21.00	19.00	19.00	20.00	15.00
		22.75	20.25	21.50	22.00	16.75
	Elevation of the temporary pool (fmsl)	9935	119440	7575	9375	11170
	Surface area of the main permanent pool (square feet) Volume of the main permanent pool (cubic feet)	25605 cf	519870 cf	18680 cf	19008 cf	29575 cf
				3.3 ft	3.5 ft	
	Average depth of the main pool (feet)	3.6 ft	4.7 ft			3.3 ft
	Average depth equation used	Equation 3	Equation 3	Equation 3	Equation 3	Equation 3
30	If using equation 3, main pool perimeter (feet)	546 ft	1473 ft	404 ft	734 ft	483 ft
31	If using equation 3, width of submerged veg. shelf (feet)	6 ft	6 ft	6 ft	6 ft	6 ft
	Volume of the forebay (cubic feet)	4935 cf	96080 cf	3238 cf	3683 cf	5700 cf
	Is this 15-20% of the volume in the main pool?	Yes	Yes	Yes	Yes	Yes
	Clean-out depth for forebay (inches)	36 in	60 in	36 in	48 in	48 in
	Design volume of SCM (cu ft)	24489 cf	187985 cf	27664 cf	27148 cf	26186 cf
	Is the outlet an orifice or a weir?	Orifice	Orifice	Orifice	Orifice	Orifice
37	If orifice, orifice diameter (inches)	2.5 in	7 in	2 in	2.5 in	2.5 in
38	If weir, weir height (inches)	•	-	-	•	-
39	If weir, weir length (inches)	•	•	•	•	
	Drawdown time for the temporary pool (days)	2.33	2.99	3.4	2.41	2.49
	Are the inlet(s) and outlet located in a manner that avoids short-					
	circuiting?	Yes	Yes	Yes	Yes	Yes
	Are berms or baffles provided to improve the flow path?	No	No	No	No	No
	Depth of forebay at entrance (inches)	36 in	60 in	36 in	48 in	48 in
	Depth of forebay at exit (inches)	12 in	12 in	12 in	12 in	12 in
	Does water flow out of the forebay in a non-erosive manner?	Yes	Yes	Yes	Yes	Yes
46	Width of the vegetated shelf (feet)	6 ft	6 ft	6 ft	6 ft	6 ft
	Slope of vegetated shelf (H:V)	6:1	6:1	6:1	6:1	6:1
	Does the orifice drawdown from below the top surface of the					
	permanent pool?	Yes	Yes	Yes	Yes	Yes
	Does the pond minimize impacts to the receiving channel from the 1-				Service State of Solid Parks	
49	yr, 24-hr storm?	Yes	Yes	Yes	Yes	Yes
50	Are fountains proposed? (If Y, please provide documentation that MDC(9) is met.)					
51	Is a trash rack or other device provided to protect the outlet system?	Yes	Yes	Yes	Yes	Yes
10000						
	Are the dam and embankment planted in non-clumping turf grass?	Yes	Yes	Yes	Yes	Yes
	Species of turf that will be used on the dam and embankment	Bermuda/Centipede		Bermuda/Centipede		
THE PERSON NAMED IN	Has a planting plan been provided for the vegetated shelf?	Yes	Yes	Yes	Yes	Yes
DDIT	ONAL INFORMATION					
NAMES AND ADDRESS OF	Please use this space to provide any additional information about the	1				