



## Public Services

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

### DRAINAGE PLAN

#### SECTION 1 – APPROVAL

Having reviewed the construction drawings, application and all supporting materials, the City of Wilmington has determined that the proposed development meets the requirements for Drainage Plan Approval through the City of Wilmington's Comprehensive Stormwater Ordinance.

PERMIT HOLDER: **RKW Properties, LLC**  
PROJECT: **Wilmington Wash House**  
ADDRESS: **1507 Dawson Street**  
PERMIT #: **2018046**  
DATE: **October 9, 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This permit shall be effective from the date of issuance until modified or rescinded and shall be subject to the following specified conditions and limitations: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 October 9, 2018.
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.
4. 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.
  - c. Further subdivision, acquisition, lease or sale of any part of the project area.
  - d. Filling in, altering, or piping of any vegetative or piped conveyance shown on the approved plan.
  - e. Construction of any permitted future areas shown on the approved plans.
5. A copy of the approved plans and specifications shall be maintained on file by the Permittee.

6. During construction, erosion shall be kept to a minimum and any eroded areas of the system will be repaired immediately.
7. 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.
8. All applicable operation & maintenance agreements pertaining to all pervious pavement systems 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 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.
9. The permittee shall at all times provide the operation and maintenance necessary to assure the pervious pavement system functions at optimum efficiency. The approved Operation and Maintenance Plan must be followed in its entirety and maintenance must occur at the scheduled intervals including, but not limited to:
  - a. Scheduled inspections
  - b. Sediment removal/vacuum sweep surface
  - c. Immediate repair of eroded areas adjacent to pervious pavement
10. Each component of the stormwater management system should be inspected once a quarter and within 24 hours after every storm event greater than 1.5 inches.
11. Records of inspection, maintenance and repair for the permitted pervious pavement 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.
12. Upon completion of construction, before a Certificate of Occupancy shall be granted, and prior to operation 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 field location, type, depth and invert of all 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.
13. 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.



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14. 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 of the Land Development Code.
15. 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.
16. 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.
17. 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.
18. 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.
19. 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.
20. 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.
21. 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 9<sup>th</sup> day of October, 2018

A handwritten signature in blue ink, appearing to read "SC", is written over a horizontal line.

for Sterling Cheatham, City Manager  
City of Wilmington



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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.):

WILMINGTON WASH HOUSE

2. Location of Project (street address):

1507 DAWSON STREET

City: Wilmington

County: New Hanover

Zip: 28403

3. Directions to project (from nearest major intersection):

FROM INTERSECTION OF 16TH STREET & DAWSON ONE BLOCK WEST

**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: N/A

State - NCDENR/DWQ: N/A

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: N/A

State - NCDENR/DWQ: N/A

3. Additional Project Permit Requirements (check all applicable):

CAMA Major Sedimentation/Erosion Control

NPDES Industrial Stormwater 404/401 Permit: Proposed Impacts: NOT APPLICABLE

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

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: RODNEY WILLYFORD R&W PROPERTIES, LLC

Signing Official & Title: RODNEY WILLYFORD, REGISTERED AGENT

- a. Contact information for Applicant / Signing Official:

Street Address: 7986 HWY 11 - BUSINESS

City: BETHEL State: NC Zip: 27812

Phone: 252-714-5838 Fax: N/A Email: \_\_\_\_\_

Mailing Address (if different than physical address): POB 429

City: Bethel State: NC Zip: 27812

- 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: \_\_\_\_\_

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: \_\_\_\_\_

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

Street Address: \_\_\_\_\_

City: \_\_\_\_\_ State: \_\_\_\_\_ Zip: \_\_\_\_\_

Phone: \_\_\_\_\_ Fax: \_\_\_\_\_ Email: \_\_\_\_\_

Mailing Address (if different than physical address): \_\_\_\_\_

City: \_\_\_\_\_ State: \_\_\_\_\_ Zip: \_\_\_\_\_

#### IV. PROJECT INFORMATION

1. In the space provided below, briefly summarize how the stormwater runoff will be treated.

STORMWATER TO BE TREATED VIA PERMEABLE  
CONCRETE

2. Total Property Area: 25,025 square feet

3. Total Coastal Wetlands Area: 0 square feet

4. Total Surface Water Area: 0 square feet

5. Total Property Area (2) – Total Coastal Wetlands Area (3) – Total Surface Water Area (4) = Total Project Area: 25,025 square feet.

6. Existing Impervious Surface within Property Area: 19,359 square feet

7. Existing Impervious Surface to be Removed/Demolished: 19,359 square feet

8. Existing Impervious Surface to Remain: 0 square feet

9. Total Onsite (within property boundary) Newly Constructed Impervious Surface (in square feet):

Buildings/Lots	<u>5000.00</u>
Impervious Pavement	
Pervious Pavement (adj. total, with <u>100</u> % credit applied)	<u>0.00</u>
Impervious Sidewalks	<u>1266.00</u>
Pervious Sidewalks (adj. total, with % credit applied)	
Other (describe) <u>TRUCKSTER PAD</u>	<u>4000.00</u>
Future Development	
<b>Total Onsite Newly Constructed Impervious Surface</b>	<u>6,666.00</u>

10956

10. Total Onsite Impervious Surface

(Existing Impervious Surface to remain + Onsite Newly Constructed Impervious Surface) = 6,666.00 square feet

11. Project percent of impervious area: (Total Onsite Impervious Surface / Total Project Area) x100 = \_\_\_\_\_ %

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

Impervious Pavement	
Pervious Pavement (adj. total, with % credit applied)	
Impervious Sidewalks	
Pervious Sidewalks (adj. total, with % credit applied)	
Other (describe) <u>DRIVEWAY APPROX x 2</u>	<u>750</u>
<b>Total Offsite Newly Constructed Impervious Surface</b>	<u>750</u>

13. Total Newly Constructed Impervious Surface  
(Total Onsite + Offsite Newly Constructed Impervious Surface) = 7416 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 #	BMP #
Receiving Stream Name	<u>MINEAL SPRINGS BRANCH</u>		
Receiving Stream Index Number	<u>18-74-632-1</u>		
Stream Classification	<u>C-SW</u>		
Total Drainage Area (sf)	<u>25,625</u>		
On-Site Drainage Area (sf)	<u>25,625</u>		
Off-Site Drainage Area (sf)	<u>0</u>		
<b>Total Impervious Area (sf)</b>			
Buildings/Lots (sf)			
Impervious Pavement (sf)			
Pervious Pavement (sf)			
Impervious Sidewalks (sf)			
Pervious Sidewalks (sf)			
Other (sf)			
Future Development (sf)			
Existing Impervious to remain (sf)			
Offsite (sf)			
Percent Impervious Area (%)			

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

N/A

## V. SUBMITTAL REQUIREMENTS

1. 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. 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: BRAD SEDGWICK, P.E.

Consulting Firm: JBS CONSULTING, PA

- a. Contact information for consultant listed above:

Mailing Address: 7332 COPESWORTH DRIVE

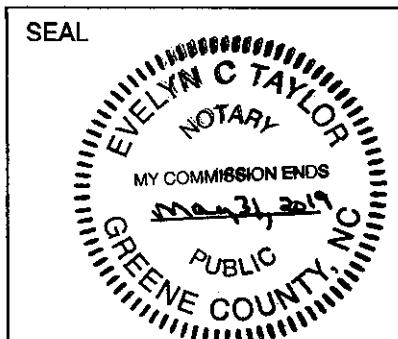
City: WILMINGTON State: NC Zip: 28405

Phone: 910-619-9970 Fax: N/A Email: bradsedgwick@hotmail.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) Rodney W. Willford, 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) BRAD SEDGWICK, P.E. with (print or type name of organization listed in Contact Information, item 1) JBS CONSULTING, PA 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.



Signature: J. Rodney Willford  
Date: 7/31/2018

I, Evelyn C Taylor, a Notary Public for the State of North Carolina, County of P. H., do hereby certify that J. Rodney Willford personally appeared before me this day of July 31, 2018.

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) \_\_\_\_\_, certify that the information included on this permit application form is, to the best of my knowledge, correct and that the project will be constructed in conformance with the approved plans, that the required deed restrictions and protective covenants will be recorded, and that the proposed project complies with the requirements of the applicable stormwater rules under.

SEAL

Signature: \_\_\_\_\_

\_\_\_\_\_ Date: \_\_\_\_\_

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: \_\_\_\_\_

# SUPPLEMENT-EZ FORM COVER PAGE

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

	Quantity	Location(s)
Infiltration System		
Bioretention Cell		
Wet Pond		
Stormwater Wetland		
Permeable Pavement	1	Entire Parking Lot
Sand Filter		
Rainwater Harvesting		
Green Roof		
Level Spreader-Filter Strip		
Disconnected Impervious Surface		
Treatment Swale		
Dry Pond		

**Project Name:**

Wilmington Wash House

**Address**

1507 Dawson Street

**City / Town**

Wilmington, NC

**Applicant:**

Company:	RKW Properties, LLC
Contact:	Rodney Williford
Mailing Address:	7986 HWY 11 Business
City, State, Zip:	Bethel, NC 27812
Phone number(s):	252-714-5838
Email:	rwilliford30@gmail.com

**Designer information for this project:**

Name and Title:	Brad Sedgwick, PE, President
Organization:	JBS Consulting, PA
Street address:	7332 Cotesworth Drive
City, State, Zip:	Wilmington, NC
Phone number(s):	910-619-9990
Email:	bradsedgwick@hotmail.com

**Designer**

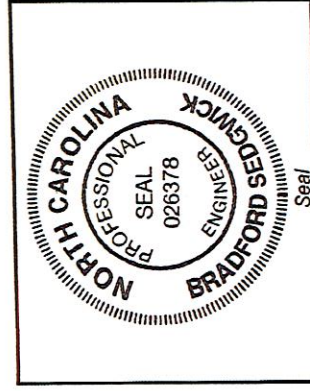
**Certification Statement:**

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.



Signature of Designer

Date

9/17/18



# PERMEABLE PAVEMENT

Wilmington Wash House

THE DRAINAGE AREA		1	Break down of BUA in the drainage area (both new and existing):		10956 sf
Drainage area number		sf	- Parking / driveway (sq ft)		1286 sf
Total coastal wetlands area (sq ft)		sf	- Sidewalk (sq ft)		5000 sf
Total surface water area (sq ft)		25625 sf	- Roof (sq ft)		sf
Total drainage area (sq ft)		sf	- Roadway (sq ft)		400 sf
BUA associated with existing development (sq ft)		17622 sf	- Other, please specify in the comment box below (sq ft)		17622 sf
Proposed new BUA (sq ft)		68%	Total BUA (sq ft)		
Percent BUA of drainage area					
<b>COMPLIANCE WITH THE APPLICABLE STORMWATER PROGRAM</b>					
Stormwater program(s) that apply (please specify):					
Design rainfall depth (in)					
Minimum volume required (cu ft)					
Design volume of SCM (cu ft)					
1.5 in					
2203 cf					
3287 cf					
<b>GENERAL MDC FROM 02H .1050</b>					
#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		Yes
#2 Is the SCM located on or near contaminated soils?	No	#8 Does the maintenance access comply with General MDC (8)?	No		Yes
#3 What are the side slopes of the SCM (H:V)?	1:1	#9 Does the drainage easement comply with General MDC (9)?	1:1		Yes
#3 Does the SCM have retaining walls, gabion walls or other engineered side slopes?	No	#10 If the SCM is on a single family lot, does the plat comply with General MDC (10)?	No		Yes
#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		Yes
#5 Is there 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		Yes
#6 What is the method for dewatering the SCM for maintenance?	Other	#13 Was the SCM designed by an NC licensed professional?	Other		Yes
<b>PERMEABLE PAVEMENT MDC FROM 02H .1055</b>					
#1 Was the soil investigated in the footprint and at the elevation of the infiltration system?	Yes	#6 How will the pavement surface be tested?	Yes		
#1 Briefly describe the hydraulic properties and characteristics of the soil profile:					
#2 SHWT elevation (fmsl)	33 ft	#7 Area of permeable pavement to be installed (square feet)	10956 sf		
#2 Top of the subgrade (fmsl)	36 ft	#7 Area of screened roof runoff that is directed to pavement (square feet)	6666 sf		
#2 Storage elevation of the design rainfall depth (fmsl)	37 ft	#7 Area of additional built-upon area runoff that is directed to pavement (square feet)	sf		
#2 Is a detailed hydrogeologic study attached if the separation is between 1 and 2 feet?	No	#7 Will runoff from pervious surfaces be directed away from the pavement?	Yes		
#3 Will toxic pollutants be stored or handled on or near the permeable pavement?	No	#8 Dewatering time (hours)	3 hrs		
#4 Proposed slope of the subgrade surface (%)	0%	#9 Is additional media being added to the soil profile?	No		
#4 Are terraces or baffles provided?	Yes	#9 Is at least one observation well per terrace been provided at the low point(s)?	Yes		
#5 Size of aggregate to be used in the subbase	#57	#10 Is this a detention permeable pavement system?	No		
#5 Aggregate depth (in)	6 in	#10 If so, what is the drawdown time for the design storm?	3 hrs		
#5 Aggregate porosity (n)	40%	#11 Have edge restraints been provided?	Yes		
#5 Will the aggregate be washed?	Yes	#12 Will the subgrade be graded when dry?	Yes		
<b>ADDITIONAL INFORMATION</b>					
Please use this space to provide any additional information about this permeable pavement design that you think is relevant to the review:					



Permit Number: \_\_\_\_\_  
 (to be provided by City of Wilmington)  
 Drainage Area / Lot Number: \_\_\_\_\_

## Permeable Pavement Operation and Maintenance Agreement

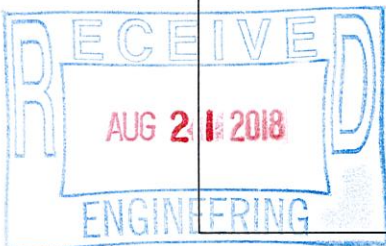
I will keep a maintenance record on this BMP. This maintenance record will be kept in a log in a known set location. Any deficient BMP elements noted in the inspection will be corrected, repaired or replaced immediately. These deficiencies can affect the integrity of structures, safety of the public,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

Important operation and maintenance procedures:

- Stable groundcover will be maintained in the drainage area to reduce the sediment load to the permeable pavement.
- The area around the perimeter of the permeable pavement will be stabilized and mowed, with clippings removed.
- Any weeds that grow in the permeable pavement will be sprayed with pesticide immediately. Weeds will not be pulled, since this could damage the fill media.
- Once a year, the permeable pavement surface will be vacuum swept.
- At no time shall wet sweeping (moistening followed by sweeping) be allowed as a means of maintenance.
- There shall be no repair or treatment of Permeable Pavement surfaces with other types of pavement surfaces. All repairs to Permeable Pavement surfaces must be accomplished utilizing permeable pavement which meets the original pavement specifications.
- Concentrated runoff from roof drains, piping, swales or other point sources, directly onto the permeable pavement surface shall not be allowed. These areas must be diverted away from the permeable pavement.

**Initial Inspection:** Permeable Pavements shall be inspected monthly for the first three months for the following:

BMP element:	Potential problem:	How to remediate the problem:
The perimeter of the permeable pavement	Areas of bare soil and/or erosive gullies have formed.	In the event that rutting or failure of the groundcover occurs, the eroded area shall be repaired immediately and permanent groundcover re-established. Appropriate temporary Erosion Control measures (such as silt fence) shall be installed in the affected area during the establishment of permanent groundcover, and any impacted area of permeable pavement is to be cleaned via vacuum sweeping.
The surface of the permeable pavement	Rutting / uneven settlement	This indicates inadequate compaction of the pavement base / sub-base. If rutting or uneven settlement on the order of ½ inch or greater occurs, permeable pavement shall be removed and base / sub-base re-compacted, smoothed, and permeable pavement shall then be re-installed. Base and sub-base compaction shall be monitored by a licensed geotechnical engineer to ensure that infiltration capacity of base and sub-base are not compromised by compaction and smoothing processes.
	The pavement does not dewater between storms, or water is running off.	Vacuum sweep the pavement. If the pavement still does not dewater, consult a professional.



Permit Number: \_\_\_\_\_  
 (to be provided by City of Wilmington)  
 Drainage Area / Lot Number: \_\_\_\_\_

The permeable pavement will be inspected **once a quarter and within 24 hours after every storm event greater than 1.5 inches**. Records of operation and maintenance will be kept in a known set location and will be available upon request.

Inspection activities shall be performed as follows. Any problems that are found shall be repaired immediately.

<b>BMP element:</b>	<b>Potential problem:</b>	<b>How to remediate the problem:</b>
<b>The perimeter of the permeable pavement</b>	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 3 to 6 inches (remove clippings).
<b>The surface of the permeable pavement</b>	Trash/debris is present.	Remove the trash/debris.
	Weeds are growing on the surface of the permeable pavement.	Do not pull the weeds (may pull out media as well). Spray them with pesticide.
	Sediment is present on the surface.	Vacuum sweep the pavement.
	The structure is deteriorating or damaged.	Consult an appropriate professional. Damaged areas of the pavement shall be removed and repaired.
	The pavement does not dewater between storms.	Vacuum sweep the pavement. If the pavement still does not dewater, consult a professional. Permanently clogged pavement shall be removed and repaired.

Permit Number: \_\_\_\_\_  
(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 City of Wilmington of any problems with the system or prior to any changes to the system or responsible party.

Project name: Wilmington Way House

BMP drainage area or lot number: 1

Print name: Rodney Williford

Title: Registered Agent

Address: 7986 Hwy 11 - Business Bethel, NC 27812

Phone: 252-714-5838

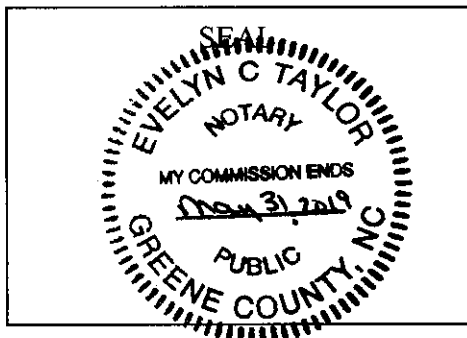
Signature: \_\_\_\_\_

Date: \_\_\_\_\_

*R. Rodney Williford*  
7/31/2018

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,  Evelyn C Taylor , a Notary Public for the State of  North Carolina , County of  Pitt , do hereby certify that  R. Rodney Williford  personally appeared before me this  31<sup>st</sup>  day of  July ,  2018 , and acknowledge the due execution of the forgoing permeable pavement maintenance requirements. Witness my hand and official seal,



My commission expires  May 31, 2019