



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: OTH Realty, LLC

PROJECT: Off the Hook Yacht Sales

ADDRESS: 1701 N. 5th Avenue

PERMIT #: **2022024**

DATE: **August 22, 2022**

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 August 22, 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 August 10, 2022.
- 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.
- 5. The permittee shall submit a revised stormwater management application packet to the City of Wilmington and shall have received approval prior to construction, for any modification to the approved plans, including, but not limited to, those listed below:
 - a. Any revision to any item shown on the approved plans, including the stormwater management measures, built-upon area, details, etc.
 - b. Redesign or addition to the approved amount of built-upon area or to the drainage area.
 - c. Further subdivision, acquisition, lease or sale of any part of the project area.
 - d. Filling in, altering, or piping of any vegetative conveyance shown on the approved plan.
 - e. Construction of any permitted future areas shown on the approved plans.





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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:
 - a. Scheduled inspections (interval noted on the agreement).
 - b. Sediment removal.
 - c. Mowing and revegetation of slopes and the vegetated areas.
 - d. Maintenance of landscape plants, including those within the landscape buffer and on the vegetated shelf.
 - e. Immediate repair of eroded areas, especially slopes.
 - f. Debris removal and unclogging of outlet structure, orifice device, flow spreader, catch basins and/or piping.
 - g. Access to the outlet structure must be available at all times.
- 13. Records of inspection, maintenance and repair for the permitted stormwater system must be kept by the permittee for at least 5 years from the date of record and made available upon request to authorized personnel of the City of Wilmington. The records will indicate the date, activity, name of person performing the work and what actions were taken.





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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 22nd day of August, 2022.

Richard Christensen

for Anthony Caudle, City Manager
City of Wilmington



Public Services
Engineering
212 Operations Center Dr
Wilmington, NC 28412
910 341-7807
91 341-5881 fax
wilmingtonnc.gov
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STORMWATER MANAGEMENT PERMIT APPLICATION FORM (Form SWP 2.3)

1.	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.): Off The Hook Yacht Sales
2.	Location of Project (street address): 1701 N 5th Ave
	City: Wilmington County: New Hanover Zip: 28401
H.	PERMIT INFORMATION
1.	Specify the type of project (check one): Low Density High Density Offsite Stormwater System Drainage Plan Redevelopment Other If the project drains to an Offsite System, list the Stormwater Permit Number(s): City of Wilmington: State – NCDEQ/DEMLR:
2.	Is the project currently covered (whole or in part) by an existing City or State (NCDEQ/DEMLR) Stormwater Permit? Yes No
	If yes, list all applicable Stormwater Permit Numbers:
	City of Wilmington: State - NCDEQ/DEMLR:
3.	Additional Project Permit Requirements (check all applicable): CAMA Major Sedimentation/Erosion Control 404/401 Permit
III.	CONTACT INFORMATION
1.	Print Applicant / Signing Official's name and title (the developer, property owner, lessee, designated government official, individual, etc. who owns the project):
	Applicant / Organization: OTH REALTY LLC
	Signing Official & Title: Jason Ruegg, Member Manager



	a. Contact information for Applicant / Signing Official:				
	Address: 1701 N J.E.L. WADE DR.				
	City: WILMINGTON State: NC Zip: 28401				
	Phone: 910-239-9344 Email: connor@offthehookys.com				
	b. Please check the appropriate box. The applicant listed above is:				
	The property owner/Purchaser (Skip to item 3) Lessee (Attach a copy of the lease agreement and complete items 2 and 2a below) Developer (Complete items 2 and 2a below.)				
2.	Print Property Owner's name and title (if different from the applicant).				
	Property Owner / Organization:				
	Signing Official & Title:				
	a. Contact information for Property Owner:				
	Street Address:				
	City:State:Zip:				
	Phone:Email:				
3.	(Optional) Other Contact name and title (such as a construction supervisor) who would like to be copied on all correspondence:				
	Other Contact Person / Organization:				
	Signing Official & Title:				
	a. Contact information for person listed in item 3 above:				
	Street Address:				
	City:State:Zip:				
	Phone:Email:				
4.	Agent Authorization: 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: ADAM H. GRADY				
	Consulting Firm: HANOVER DESIGN SRVICES, PA				
	a. Contact information for consultant listed above:				
	Mailing Address: 1123 FLORAL PARKWAY				
	City: WILMINGTON State: NC Zip: 28403				
	Phone: 910-343-8002				



IV. PROJECT INFORMATION

1.	Total Property Area: 75,588 square feet
2.	Total Coastal Wetlands Area: 0 square feet
3.	Total Surface Water Area: 0 square feet
4.	Total Property Area (1) – Total Coastal Wetlands Area (2) – Total Surface Water Area (3) = Total Project Area: 75588 square feet.
5.	Existing Impervious Surface within Project Area: 0 square feet
6.	Existing Impervious Surface to be Removed/Demolished: 0 square feet
7.	Existing Impervious Surface to Remain: N/A square feet
8.	Total Onsite (within property boundary) Newly Constructed Impervious Surface (in square feet):

Buildings/Lots	14,000
Impervious Pavement	44,906
Pervious Pavement (total area / adjusted area w credit applied)	1
Impervious Sidewalks	152
Pervious Sidewalks (total area / adjusted area w credit applied)	0 /
Other (Describe)	0
Future Development	3336
Total Onsite Newly Constructed Impervious Surface	62,394

9. Total Onsite Impervious Surface (Existing Impervious Surface to remain + Onsite Newly Constructed Impervious Surface) 62,394	_square feet
10. Net Change in Onsite Impervious Surface (+ for net increase, - for net decrease) 62,394	_square feet
11. Project percent of impervious area: (Total Onsite Impervious Surface / Total Project Area) x100	0 = 82.6 %

	12. Total Offsite Newly	Constructed Impervio	us Area (in square feet):
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Impervious Pavement	5,151
Pervious Pavement (total area / adjusted area w credit applied)	1
Impervious Sidewalks	4,706
Pervious Sidewalks (total area / adjusted area w credit applied)	1
Other (Describe)	
Total Offsite Newly Constructed Impervious Surface	9,857



13. Complete the following information for each Stormwater SCM drainage area. Low Density and Drainage Plan projects (with no permeable pavements) may omit this section and skip to Section V.

Basin Information	INFILTRATION TRENCH SCM #1	INFRILTRATION TRENCH SCM # 2	Type of SCM SCM#
Receiving Stream Name	Northeast Cape Fear	Northeast Cape Fear	
Receiving Stream Index Number	18-74-61	18-74-61	
Stream Classification	SC;Sw	SC;Sw	
Total Drainage Area (sf)	61,804	13,784	
On-Site Drainage Area (sf)	61,804	13,784	
Off-Site Drainage Area (sf)	0	0	
Buildings/Lots (sf)	11,080	2,920	
Impervious Pavement (sf)	37,740	7,166	
Pervious Pavement (total / adjusted) (sf)	0 /	0 /	1
Impervious Sidewalks (sf)	152	0	
Pervious Sidewalks (total / adjusted) (sf)	0 /	0 /	1
Other (sf)	0	0	
Future Development (sf)	2,360	976	
Existing Impervious to remain (sf)	0	0	
Offsite (sf)	0	0	
Total Impervious Area (sf)	51,332	11,062	
Percent Impervious Area (%)	83.1	80.3	

asin Information	Type of SCM	Type of SCM	Type of SCM
Dasiii iiiloiiiialloii	SCM#	SCM#	SCM#
Receiving Stream Name			
Receiving Stream Index Number			
Stream Classification			
Total Drainage Area (sf)			
On-Site Drainage Area (sf)			
Off-Site Drainage Area (sf)			
Buildings/Lots (sf)			
Impervious Pavement (sf)			
Pervious Pavement (total / adjusted) (sf)	/	/	/
Impervious Sidewalks (sf)			
Pervious Sidewalks (total / adjusted) (sf)	/	1	1
Other (sf)			
Future Development (sf)			
Existing Impervious to remain (sf)			
Offsite (sf)			
Total Impervious Area (sf)			
Percent Impervious Area (%)			



V. SUBMITTAL REQUIREMENTS

Only complete application packages will be accepted and reviewed by the City. A complete package includes all of the items listed below. Copies of forms, deed restrictions, checklists as well as detailed instructions on how to complete this application form may be downloaded from the City of Wilmington Plan Review website below:

https://www.wilmingtonnc.gov/departments/engineering/plan-review/stormwater-permits

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

Please indicate that the following required information have been provided by initialing in the space provided for each item.

- Initials 1. One completed Stormwater Management Permit Application Form. 2. One completed Supplement Form for each SCM proposed (signed, sealed and dated). 3. One completed Operation & Maintenance agreement for each type of SCM. 4. Proposed Deed Restrictions and Restrictive Covenants (for all subdivisions) 5. Appropriate stormwater permit review fee. Minimum requirements identified on the Engineering Plan Review Checklist have been addressed. 7. One set of calculations (sealed, signed and dated). 8. A detailed narrative (one to two pages) describing the stormwater treatment/management system for the project. 9. A USGS map identifying the site location. If the receiving stream is reported as class SA or the receiving stream drains to class SA waters within ½ mile of the site boundary, include the ½ mile radius on the map.
- 10. A copy of the soils report, if applicable. Must meet NCDEQ SCM Manual and MDC requirements for the type of SCM proposed. The report must include boring logs and a map of boring locations.
- 11. One full set of plans folded to 8.5" x 14".
- 12. A map delineating and labeling the drainage area for each SCM proposed.
- 13. A map delineating and labeling the drainage area for each inlet and conveyance proposed.
- 14. A digital copy of the entire submittal package (can be submitted via flash drive, CD, email, dropbox or other file sharing system).



VI. PROPERTY OWNER AUTH	ORIZATION (If Section III(2) has been filled out, complete this section)
I,thus give permission to	, certify that I own the property identified in this permit application, and with roposed. A copy of the lease agreement or pending property sales contract
to develop the project as currently p has been provided with the submittathe stormwater system.	roposed. A copy of the lease agreement or pending property sales contract II, which indicates the party responsible for the operation and maintenance of
agentagreement, or pending sale, responsiback to me, the property owner. As immediately and submit a completed a stormwater treatment facility without	wledge, understand, and agree by my signature below, that if my designateddissolves their company and/or cancels or defaults on their lease sibility for compliance with the City of Wilmington Stormwater Permit reverts the property owner, it is my responsibility to notify the City of Wilmington d Name/Ownership Change Form within 30 days; otherwise I will be operating ut a valid permit. I understand that the operation of a stormwater treatment lation of the City of Wilmington Municipal Code of Ordinances and may result g the assessment of civil penalties.
Signature:	Date:
0	
SEAL	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:
VII. APPLICANT'S CERTIFIC	
approved plans, that the required de	certify that the information included on this permit application , correct and that the project will be constructed in conformance with the ed restrictions and protective covenants will be recorded, and that the equirements of the applicable rules under the City's Comprehensive
Signature:	
SEAL MINIMUM	
SEAL WALL	I, MUKENZIE WALLACE, a Notary Public for the
LILLEN SSION A COM	State of NC , County of Non HANNE do
3 Commission Com	hereby certify that JASON RUCC
= 240 mus &	personally appeared before me this day of NOVEMBER 9, 2011,
I ≥ Aun C ≥	and acknowledge the due execution of the application for a stormwater
SEAL SEAL SEAL STANDARY SOM NOTARY SO	permit. Witness my hand and spicial seal,
MANOUTE COUNTY	7 Michella
NINOVEH ONLY	My commission expires:

SUPPLEMENT-EZ COVER PAGE

FORMS LOADED

RECEIVED

By Jeff Walton at 11:04 am, Apr 26, 2022

OJECT INFORMATION		
Project Name	Off The Hook Yacht Sales	
Project Area (ac)	75,588	
Coastal Wetland Area (ac)	0	
Surface Water Area (ac)	0 1	
Is this project High or Low Density?	High	
6 Does this project use an off-site SCM?	No	

COMPLIANCE WITH 02H .1003(4)		
7	Width of vegetated setbacks provided (feet)	na na
8	Will the vegetated setback remain vegetated?	N/A
9	If BUA is proposed in the setback, does it meet NCAC 02H.1003(4)(c-d)?	N/A
10	Is streambank stabilization proposed on this project?	No

NUME	BER AND TYPE OF SCMs:	
11	Infiltration System	2
12	Bioretention Cell	
13	Wet Pond	
14	Stormwater Wetland	
15	Permeable Pavement	
16	Sand Filter	
17	Rainwater Harvesting (RWH)	
18	Green Roof	
19	Level Spreader-Filter Strip (LS-FS)	
20	Disconnected Impervious Surface (DIS)	
21	Treatment Swale	
22	Dry Pond	
23	StormFilter	
24	Silva Cell	
25	Bayfilter	
26	Filterra	

FORMS LOADED

27 Name and Title:	Adam Grady, PE Project Engineer
28 Organization:	Hanover Design Services, PA
29 Street address:	1123 Floral Parkway
30 City, State, Zip:	Wilmington, NC 28403
31 Phone number(s):	910-343-8002
32 Email:	agrady@hdsilm.com

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.

Designer

CARO
SEAL
43166

WGINEER

Signature of Designer

9/13/28

DRAINAGE AREAS

1	Is this a high density project?	Yes
2	If so, number of drainage areas/SCMs	2
3	Does this project have low density areas?	No
4	If so, number of low density drainage areas	0
5	Is all/part of this project subject to previous rule versions?	No

FORMS LOADED

DRA	NAGE AREA INFORMATION	Entire Site	Service Lawrence	2
4	Type of SCM	Infiltration Basin	Infiltration Basin	Infiltration Basin
5	Total drainage area (sq ft)	75,588	61,804	13784
6	Onsite drainage area (sq ft)	75588	61,804	13784
7	Offsite drainage area (sq ft)		0	
8	Total BUA in project (sq ft)	62394 sf	51332 sf	11062 sf
9	New BUA on subdivided lots (subject to permitting) (sq ft)	62394 sf	51332 sf	11062 sf
10	New BUA not on subdivided lots (subject to permitting) (sf)			
11	Offsite BUA (sq ft)		sf	sf
12	Breakdown of new BUA not on subdivided lots:	11		
***************************************	- Parking (sq ft)	44906 sf	37740 sf	7166 sf
	- Sidewalk (sq ft)	152 sf	152 sf	
	- Roof (sq ft)	14000 sf	11080 sf	2920 sf
	- Roadway (sq ft)			
	- Future (sq ft)		2360 sf	976 sf
	Other, please specify in the comment box below (sq ft)			
13	New infiltrating permeable pavement on subdivided lots (sq ft)			***************************************
14	New infiltrating permeable pavement not on subdivided lots (sq ft)		***************************************	
15	Existing BUA that will remain (not subject to permitting) (sq ft)			
16	Existing BUA that is already permitted (sq ft)			/
17	Existing BUA that will be removed (sq ft)	***************************************		
18	Percent BUA	83%	83%	80%
19	Design storm (inches)	1.5 in	1.5 in	1.5 in
20	Design volume of SCM (cu ft)	10645 sf	8723 cf	1922 cf
21	Calculation method for design volume	SCS	SCS	SCS

ADDITIONAL INFORMATION
Please use this space to provide any additional information about the drainage area(s):

INFILTRATION SYSTEM

2 M GENERAL 3 II 4 II 5 V	Orainage area number Minimum required treatment volume (cu ft) MDC FROM 02H .1050 Is the SCM sized to treat the SW from all surfaces at build-out? Is the SCM located away from contaminated soils?	5475 cf Yes	1180 cf
3 1 4 1 5 V	. MDC FROM 02H .1050 s the SCM sized to treat the SW from all surfaces at build-out?	Yes	Vos
3 4 5	s the SCM sized to treat the SW from all surfaces at build-out?	Yes	Voc
4 I		169	
5 V		Yes	
	What are the side slopes of the SCM (H:V or enter "Vertical" for	res	Yes
	renches)?	2:1	2:1
e	Does the SCM have retaining walls, gabion walls or other ingineered side slopes?	No	No
	are the inlets, outlets, and receiving stream protected from erosion 10-year storm)?	Yes	Yes
8 ls	s there an overflow or bypass for inflow volume in excess of the esign volume?	Yes	Yes
	What is the method for dewatering the SCM for maintenance?	Pump (preferred)	Pump (preferre
	applicable, will the SCM be cleaned out after construction?	Yes	Yes
	object the maintenance access comply with General MDC (8)?	Yes	Yes
12 [object the maintenance access comply with General MDC (a)?		
13 If	the SCM is on a single family lot, does (will?) the plat comply with General MDC (10)?	Yes N/A	Yes N/A
	there an O&M Agreement that complies with General MDC (11)?	Yes	Yes
15 ls	there an O&M Plan that complies with General MDC (12)?	Yes	Yes
	loes the SCM follow the device specific MDC?	Yes	Yes
	/as the SCM designed by an NC licensed professional?	Yes	Yes
	FION SYSTEM MDC FROM 02H .1051	169	162
	roposed slope of the subgrade surface (%)	0%	0%
	re terraces or baffles provided?	No	No
	ype of pretreatment:	Other	Other
oils Date			
21 V	as the soil investigated in the footprint and at the elevation of the		
- ir	filtration system?	Yes	No
22 S	HWT elevation (fmsl)	28.50	28.50
23 D	epth to SHWT per soils report (in)	100.00	100.00
24 G	round elevation at boring in soils report (fmsl)	36.65	36.65
25 Is	a detailed hydrogeologic study attached if the separation is etween 1 and 2 feet?	N/A	N/A
26 S	oil infiltration rate (in/hr)	22.94	22.94
	actor of safety (FS) (2 is recommended):	2.00	2.00
levatio			
29 B	ottom elevation (fmsl)	30.5 ft	30.5 ft
	torage elevation (fmsl)	32.6 ft	32.5 ft
	ypass elevation (fmsl)	32.6 ft	
	ns Only	32.0 11	32.5 ft
	ottom surface area (ft²)		
	torage elevation surface area (ft²)		
	ches Only		
	ength (ft)	45 ft	123 ft
	lidth (ft)	149 ft	12 ft
	erforated pipe diameter, if applicable (inches)	na	na
	umber of laterals	na	na
38 To	otal length of perforated piping	na	na
	one type, if applicable	57	57
	one porosity (%)	40%	40%
41 ls	stone free of fines?	Yes	Yes
	the stone wrapped in geotextile fabric?	Yes	Yes
	as at least one inspection port been provided?	Yes	Yes
	/Drawdown	I	
	esign volume of SCM (cu ft)	8723 cf	1922 cf
	me to draw down (hours)	1.1 hrs	1.3 hrs
	NAL INFORMATION		
-	ease use this space to provide any additional information about e infiltration system(s):		



Permit Number:	
(to be provided by	City of Wilmington)
SCM Drainage B	asin #:

Infiltration Trench Operation and Maintenance Agreement

I will keep a maintenance record on this SCM. This maintenance record will be kept in a log in a known set location. Any deficient SCM 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 SCM.

Important maintenance procedures:

- The drainage area of the infiltration trench will be carefully managed to reduce the sediment load to the sand filter.
- The water level in the monitoring wells will be recorded once a month and after every storm event greater than 1.5 inches.

The infiltration trench 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.

SCM element:	Potential problem:	How to remediate the problem:
The entire SCM	Trash/debris is present.	Remove the trash/debris.
The grass filter strip or	Areas of bare soil and/or	Regrade the soil if necessary, to
other pretreatment area	erosive gullies have formed.	remove the gully, and then plant a
		ground cover and water until it is
		established. Provide lime and a
		one-time fertilizer application.
	Sediment has accumulated to	Search for the source of the
	a depth of greater than six	sediment and remedy the problem if
	inches.	possible. Remove the sediment and
		dispose of it in a location where it
		will not cause impacts to streams or
		the SCM.
The flow diversion	The structure is clogged.	Unclog the conveyance and dispose
structure (if applicable)		of any sediment off-site.
	The structure is damaged.	Make any necessary repairs or
		replace if damage is too large for
		repair.

SCM element:	Potential problem:	How to remediate the problem:
The trench	Water is ponding on the	Remove the accumulated sediment
	surface for more than 24	from the infiltration system and
	hours after a storm.	dispose in a location that will not
		impact a stream or the SCM.
	Grass or other plants are	Do not pull the weeds (may pull out
	growing on the surface of the	media as well). Wipe them with a
	trench.	systemic herbicide such as
		glyphosate and then return within
		the week to remove them by hand.
		(Another option is to pour boiling
		water on them or steam them.)
The observation well(s)	Water present more than	Clean out any clogged underdrain
	three days after a storm	pipes. Consult an appropriate
	event.	professional for clogged soil
		subgrade.
The emergency overflow	Erosion or other signs of	Repair or replace the berm.
berm	damage have occurred at the	
	outlet.	
The receiving water	Erosion or other signs of	Repair the damage and improve the
	damage have occurred at the outlet.	flow dissipation structure.

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: Off The Hook Yacht Sales
SCM drainage basin number: 1
Print name: Jason Ruegg
Title: Member
Address: 1701 N J.E.L. WADE DR.
Phone: 910-239-9344
Signature.
Date:
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,
County of New HANDVER, do hereby certify that
TASON RUEGG personally appeared before me this 9
day of November, 2021, and acknowledge the due execution of the
forgoing infiltration trench maintenance requirements. Witness my hand and official
SEAL
My commission expires 11/12/12/12

Permit Number:	
(to be provided by	City of Wilmington)
SCM Drainage B	asin #:

Infiltration Trench Operation and Maintenance Agreement

I will keep a maintenance record on this SCM. This maintenance record will be kept in a log in a known set location. Any deficient SCM 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 SCM.

Important maintenance procedures:

- The drainage area of the infiltration trench will be carefully managed to reduce the sediment load to the sand filter.
- The water level in the monitoring wells will be recorded once a month and after every storm event greater than 1.5 inches.

The infiltration trench 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.

SCM element:	Potential problem:	How to remediate the problem:
The entire SCM	Trash/debris is present.	Remove the trash/debris.
The grass filter strip or other pretreatment area	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
	Sediment has accumulated to a depth of greater than six inches.	one-time fertilizer application. 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 SCM.
The flow diversion structure (if applicable)	The structure is clogged.	Unclog the conveyance and dispose of any sediment off-site.
	The structure is damaged.	Make any necessary repairs or replace if damage is too large for repair.

SCM element:	Potential problem:	How to remediate the problem:
The trench	Water is ponding on the surface for more than 24 hours after a storm.	Remove the accumulated sediment from the infiltration system and dispose in a location that will not impact a stream or the SCM.
	Grass or other plants are growing on the surface of the trench.	Do not pull the weeds (may pull out media as well). Wipe them with a systemic herbicide such as glyphosate and then return within the week to remove them by hand. (Another option is to pour boiling water on them or steam them.)
The observation well(s)	Water present more than three days after a storm event.	Clean out any clogged underdrain pipes. Consult an appropriate professional for clogged soil subgrade.
The emergency overflow berm	Erosion or other signs of damage have occurred at the outlet.	Repair or replace the berm.
The receiving water	Erosion or other signs of damage have occurred at the outlet.	Repair the damage and improve the flow dissipation structure.

Permit Number:	
(to be prov	ded 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: Off The Hook Yacht Sales
SCM drainage basin number: 2
P _{rint name:} Jason Ruegg
_{Fitle:} Member
Address: 1701 N J.E.L. WADE DR.
Phone: 910-239-9344
Signature:
Date: 119-11
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.
, MIKENZIE WALLACE, a Notary Public for the State of
County of New HANNER, do hereby certify that
, County of New HANNER, do hereby certify that JASON RUEGG personally appeared before me this 9
County of New HANNER, do hereby certify that JASON RUEGG personally appeared before me this 9 day of NEW RUE , 2021, and acknowledge the due execution of the
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TAION KNELL personally appeared before me this personal a