

ALBEMARLE REGIONAL HEALTH SERVICES
Improvement Permit

461079

Applicant:

James Eaton
138 Oyster Bed Ln
Southern Shores, NC 27949

Owner:

James Eaton
138 Oyster Bed Ln
Southern Shores, NC 27949

Site Location:

117 West Side Ln
Powells Point, NC 27966

GPD: 100	LTAR: 0.500	Classification: Suitable
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The site will require the following modification(s):

To obtain an Authorization to Construct:

- * Submit a plat or scale drawing of the lot, showing location and dimensions of all property lines, proposed structures and driveways
- * Pay permit fee of \$441

Comments:

Fill building pad higher than finished septic tank grade

EHS:



Carver, Kevin

Date: 10/27/2025

THIS APPROVAL WILL BECOME VOID AFTER 12 MONTHS AND A NEW APPLICATION WILL BE NECESSARY.

Bertie (252) 794-5303 Camden (252) 338-4460 Chowan (252) 482-1199 Currituck (252) 232-6603
Gates (252) 357-1380 Pasquotank (252) 338-4490 Perquimans (252) 426-2100



Stormwater Management Report

Narrative, Calculations and Supporting Documentation

Project:

JUST FOR THE BEACH RENTAL WAREHOUSE

COMMERCIAL SITE DEVELOPMENT

Powells Point, Currituck County, North Carolina

Prepared By:

Bissell Professional Group

P.O. Box 1068
3512 N. Croatan Highway
Kitty Hawk, North Carolina 27949

October 27, 2025

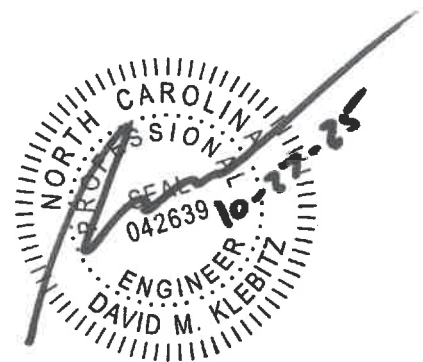


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Attachments

- A: Site Maps
- B: Drainage Area Delineation Maps
- C: Soils Report
- D: Stormwater Management Calculations (Sealed Under Cover)

STORMWATER MANAGEMENT NARRATIVE:

PROJECT OVERVIEW & PROPOSED DEVELOPMENTAL ACTIVITIES

The project is slated for development along the southern side of West Side Ln, Sr 1112 in the Powells Point area of Currituck County.

Proposed developmental activities include the following;

- a) (2) warehouse buildings
- b) A shared concrete driveway common with the western adjoining property
- c) Concrete and gravel parking and loading areas
- d) Stormwater management, utility and landscaping improvements

*Please reference the **Development Overview Map** provided under **Attachment A**.*

EXISTING SITE CONDITIONS, TOPOGRAPHY AND DRAINAGE FEATURES

The 0.55 acre property, along with the adjoining parcel to the west, was formerly utilized as a salvage yard operation. Improvements included a small building, truck scales with concrete access ramps, concrete driveways and stockpiles of salvaged materials. Recently, however, all structures and material stockpiles were removed and the site is now vacant. Topography is flat with an average ground surface elevation of around 13.5 ft-msl across the front portion of the property. Elevations across the rear gradually fall east to west from around 13.3' to 11.5'. There are no formal drainage measures on or around the property. Stormwater runoff is believed to be minimal and primarily infiltrates into the area's native sandy soils. The property is zoned Heavy Industrial (HI) with surrounding development that includes a mix of industrial and residential.

*Please reference the **USGS 7.5 Minute Quadrangle Site Location Map** under **Attachment A**.*

*Please reference the **Existing Site Features Map** provided in the **Construction Drawings***

SITE SOILS

Pursuant to the USDA Soil Survey Manual of Currituck County, soils across the proposed development area are composed of Bojac Loamy Sands. Bojac soils are described as well drained with moderately rapid permeability and a seasonal high-water table below a depth of 4 feet.

Protocol Sampling Service, Inc. conducted a site evaluation to determine the presence of restrictive horizons, seasonal high-water table conditions and permeability capabilities of the underlying soils. A single boring was advanced in the vicinity of the development's proposed infiltration basin. Findings include a seasonal high-water table elevation at 8.61 ft-msl, an infiltration rate of 20 inches/hour at a depth of 40" and soil porosity of 20-25%. The soils are described as sandy and well drained, belonging to the Conetoe series.

*Please reference the **Soils Report** provided under **Attachment C**.*

OVERVIEW OF STORMWATER MANAGEMENT DESIGN CRITERIA

CURRITUCK COUNTY

The development's stormwater management system shall be designed in accordance with the standards prescribed for Major Site Plans as outlined in Chapter 7.3 of the Currituck County UDO and Chapter 2.4 of the Currituck County Stormwater Manual. Among other provisions, the following primary standards shall be met:

- I. Major Site Plans shall implement adequate stormwater practices to reduce the post-development peak discharge from the 24-hour storm event with a 5-year recurrence interval down to the pre-development discharge rate from the 24-hour storm event with a 2-year recurrence interval based on pre-development conditions from a wooded site, regardless of actual pre-development site conditions.
- II. Major Site Plans shall provide Minimum Building Pad Elevations required to prevent flooding from the 24-hour storm event with a 10-year recurrence interval.
- III. Finished Floor Elevations for all principal structures shall be above the 100-year Regulatory Flood Protection Elevation, or 18 inches above the 24-hour storm event with a 10-year recurrence interval, or at least 6 inches above a filled septic system, whichever is greater.

OVERVIEW OF STORMWATER MANAGEMENT FEATURES BY DRAINAGE AREA

Developmental activities will consist of those previously itemized in the “Project Overview and Proposed Development Activities” section above. Like Pre-Development drainage conditions, proposed grading and drainage improvements form a single primary Post-Development Drainage Area [#1].

*Please reference **Pre and Post Development Drainage Area Delineation Maps under Attachment B***

Drainage Area #1

The drainage area totals 0.55 acres and includes all of the proposed built-upon area and the following stormwater management improvements:

Collection

The shared concrete driveway will be crowned along the common property line with the adjoining property. Runoff from the on-site, eastern half of the driveway will sheet-flow to on-site measures for management. Runoff from the off-site, western half will sheet flow off-site.

Roof runoff from the western half of Building A and the adjoining portion of the shared driveway will be collected by a catch basin (CB-01) and conveyed by pipe to an infiltration basin proposed in the northeast corner of the property.

Roof runoff from the eastern half of Building A, the adjoining concrete access drive to the building, a portion of the rear gravel loading & parking area and concrete ADA parking pad will be graded to promote sheet flow directly into the infiltration basin.

Roof runoff from the entire Building B and portions of the adjoining gravel loading area improvements will be collected by a typical vegetated swale running along the western, southern and eastern property boundaries. The swale is sloped to convey runoff to the southern end of an infiltration basin.

Stage and Storage

In accordance with County Design Criteria outline above, the Infiltration Basin has been designed with an open storage capacity capable of accommodating runoff in excess of the Post-Development 5 year - 24 hour storm event. The following is a summary of design conditions:

STAGE ELEVATIONS

- Seasonal high-water table elevation = 8.61 ft-msl (See Site Soils section above)
- Basin Bottom Elevation = 11.00 ft-msl (Provides greater than 2' of separation to SHWT)
- 5 yr – 24 hr event stage = 12.60 ft-msl (See Currituck Calculations*)
- 10 yr – 24 hr event stage = 12.95 ft-msl (See EPA SWMM Model Results)
- Emergency Overflow Elevation = 13.10 ft-msl (See grading and drainage plan)
- Basin Top Elevation = 13.25 ft-msl (See grading and drainage plan)

STORAGE VOLUMES

- 5 yr-24 hr event storage = 3,617 cf (See Currituck Calculations*)
- 10 yr-24 hr event storage = 4,686 cf (See EPA SWMM Model Results)
- Total Basin storage capacity = 5,731 cf (See Currituck Calculations*)

**Sections 2.4.3 and 2.4.4 of the Currituck County Stormwater Manual allows the use of "Rational Method" and "Simple Volume Calculations" determine runoff rates and required storage volumes for sites under 10 acres.*

Treatment

Primary treatment will be provided by the proposed Infiltration Basin. Measures of Pre-treatment will also be provided by the leading vegetative swales and sump provided within the proposed catch basin. Roof runoff from Building B will also receive pre-treatment by sheet flowing over the vegetated rear yard before entering into the perimeter swale. Longitudinal slopes of the proposed swale and pipe collection network are kept to a minimum to reduce flow velocities, reduce erosion and promote infiltration.

Disposal & Overflow

Infiltration is the primary source of disposal and drawdown calculations resolve that the basin's full open storage volume will infiltrate into the site's excessively drained sandy soils in a period of approximately 6.0 hours, or 0.25 days. This is significantly less than the maximum 72 hour allowance prescribed by NCDEQ. In the event that the system capacity is exceeded, excess runoff will begin to overflow the northern bank of the infiltration basin at an elevation of 13.10 ft-msl and sheet flow towards West Side Ln.

Building Pad Elevation (BPE) and First Floor Elevation (FFE)

- Finished building pad elevations located immediately around the perimeter of the buildings are set at, or above 14.0 ft-msl. This provides 1.05' of separation to the 10 yr-24 hour storm stage of 12.95 ft-msl.
- First floor elevations of the proposed buildings are set at 14.5 ft-msl, providing 1.55' of separation to the 10 yr-24 hr storm stage of 12.95 ft-msl. The site is located in a FEMA X Flood Zone so there is no base flood or regulatory flood protection elevation. Finished grade elevations across the drainfield average around 14.00 ft-msl, providing at least 6" of separation to the finished first floor elevation.

*Please reference **Stormwater Management Calculations** under **Attachment D** and the **Construction Drawings** for more details.*

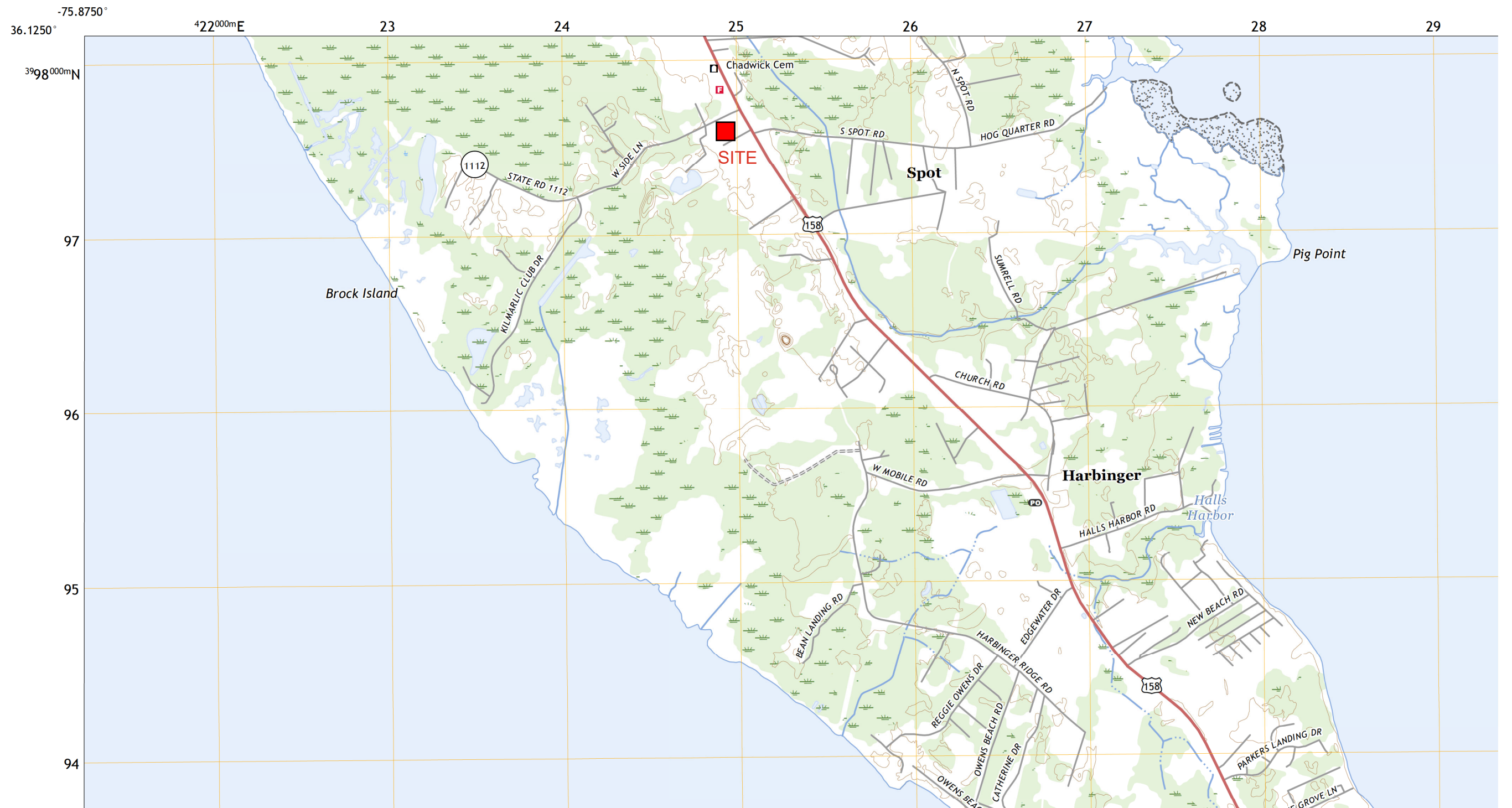
OPERATION & MAINTENANCE

The following is a general overview of some, but possibly not all, maintenance responsibilities;

- A. For purposes of operating and maintaining the infiltration basin, access must be maintained such that the basin can be reached by light construction equipment.
- B. During and after construction, erosion shall be kept to a minimum and any eroded areas of vegetated conveyances shall be repaired immediately. Please refer to the Infiltration Basin Construction Sequence Notes provided on the construction drawings for further details.
- C. Regular inspections shall be performed and any problems found shall be repaired immediately.
 1. Trash and debris shall be removed.
 2. Sediment accumulation of more than 4 inches shall be removed.
 3. Erosion of the basin bottom and side slopes shall be regraded and vegetated immediately.
 4. New growth of shrubs and trees within the basin shall be removed.

ATTACHMENT A – SITE MAPS

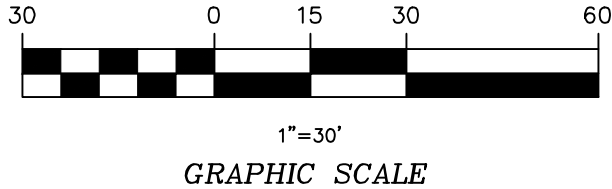
- USGS 7.5 Minute Quadrangle Site Location Map
- Development Overview Map (Reduction)



ATTACHMENT B – DRAINAGE AREA DELINEATION MAPS

- Currituck - Pre - Development Drainage Area Map used for Rational Method Calculations
- Currituck - Post - Development Drainage Area Map used or Rational Method Calculations
- Post - Development Drainage Map used for EPA SWMM Model

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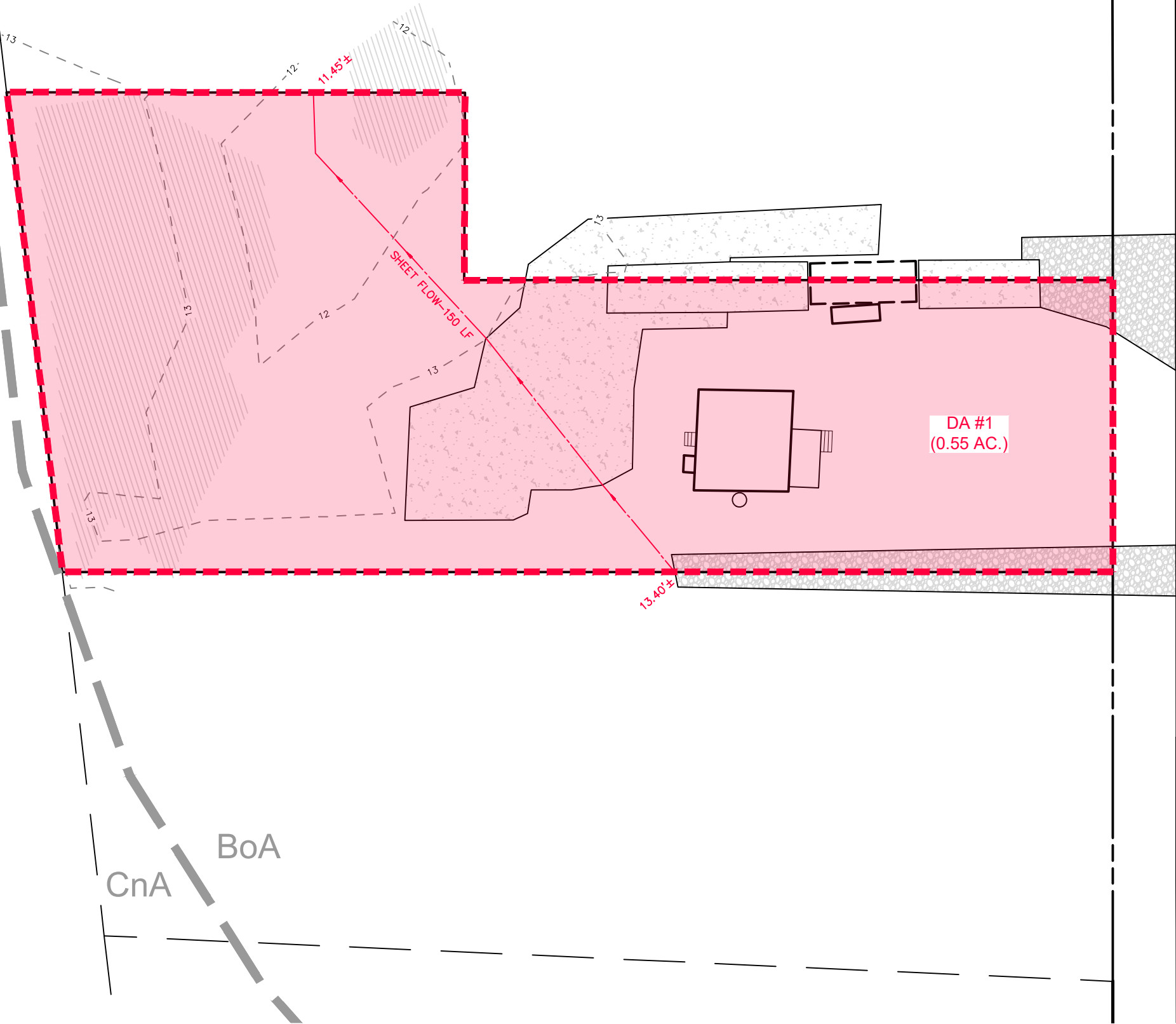


----- ON-SITE DRAINAGE AREA
----- TIME OF CONCENTRATION

UTILIZED FOR RATIONAL METHOD CALCULATIONS
FOR DRAINAGE AREA #1 (0.55 AC.)

WOODED AREA (0.55 AC.)
C = 0.20

ACTUAL SITE CONDITIONS SHOWN FOR REFERENCE



WEST SIDE LANE - SR 1112

REVISIONS		NO.	DATE	DESCRIPTION	BY

DATE: 10-15-25 SCALE: 1"=30'

DESIGNED: BPG CHECKED: DMK

DRAWN: DMK APPROVED: DMK

SHEET: 1 of 1

CAD FILE: 2024-04400B4

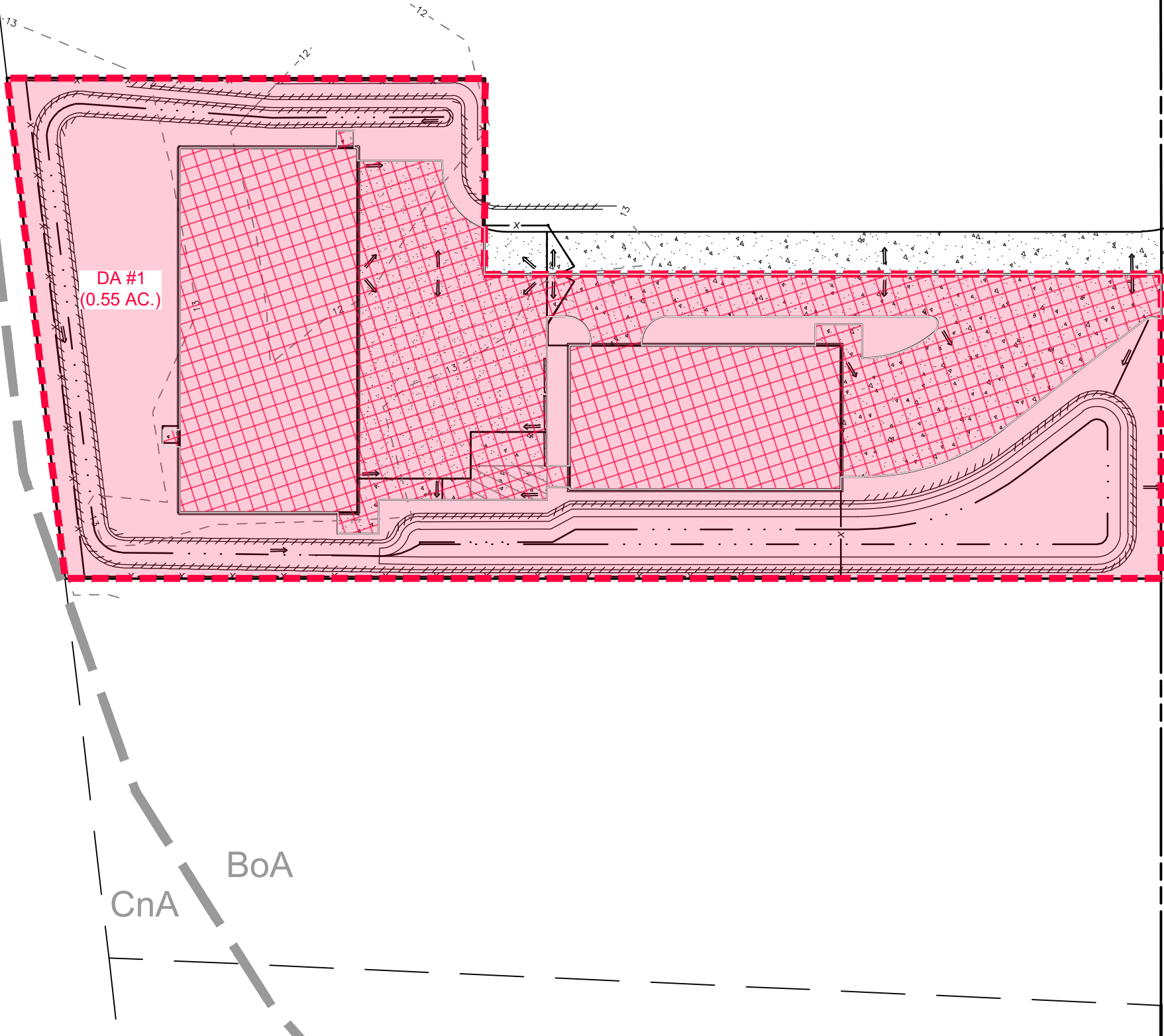
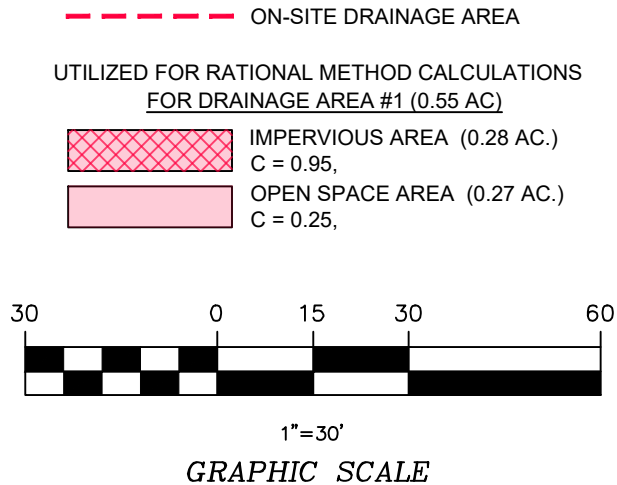
PROJECT NO: 4869

PROJECT: JUST FOR THE BEACH RENTALS WAREHOUSE
COMMERCIAL SITE DEVELOPMENT PLAN
POWELLS POINT CURRITUCK NORTH CAROLINA
CURRITUCK PRE-DEVELOPMENT DRAINAGE AREA MAP

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and Environmental Specialists
Bissell Professional Group
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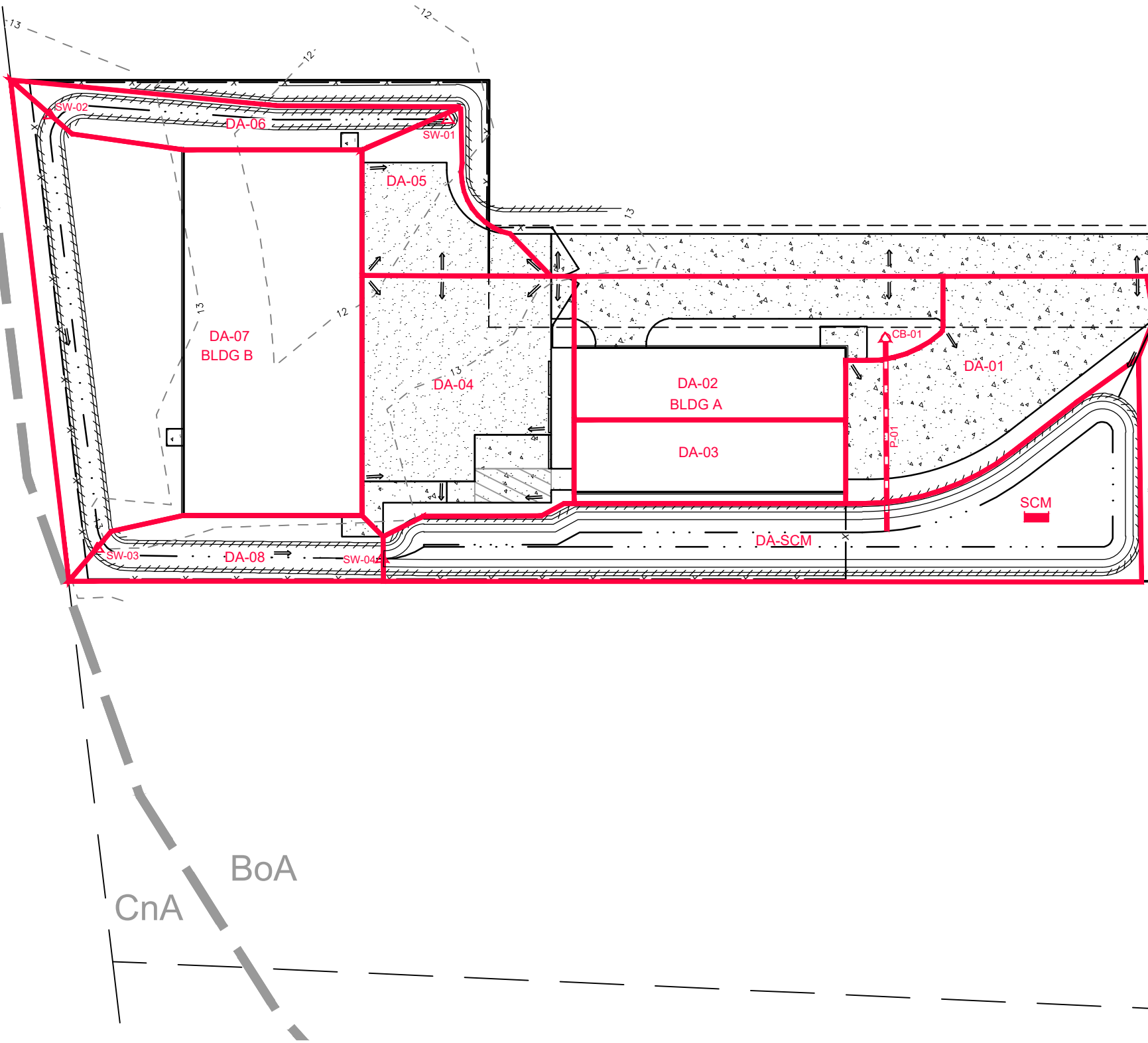
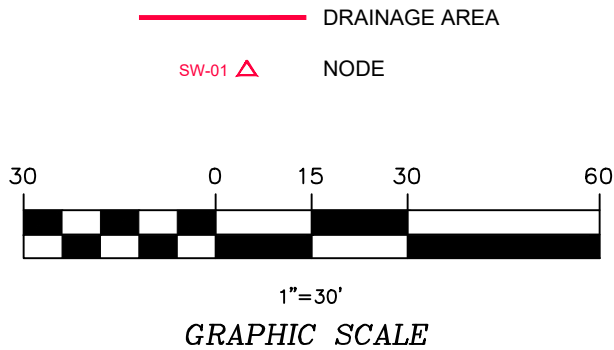
REVISIONS		NO.	DATE	DESCRIPTION	BY

PROJECT: **JUST FOR THE BEACH RENTALS WAREHOUSE**
COMMERCIAL SITE DEVELOPMENT PLAN
POWELLS POINT CURRITUCK NORTH CAROLINA
CURRITUCK POST-DEVELOPMENT DRAINAGE AREA MAP

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WEST SIDE LANE - SR 1112

PROJECT: **JUST FOR THE BEACH RENTALS WAREHOUSE**
COMMERCIAL SITE DEVELOPMENT PLAN
POWELLS POINT CURRITUCK NORTH CAROLINA
EPA SWMM POST-DEVELOPMENT DRAINAGE MAP

REVISIONS		NO.	DATE	DESCRIPTION	BY

DATE: 10-15-25 SCALE: 1"=30'

DESIGNED: BPG CHECKED: DMK

DRAWN: DMK APPROVED: DMK

SHEET: 1 OF 1

CAD FILE: 2024-04400B4

PROJECT NO: 4869

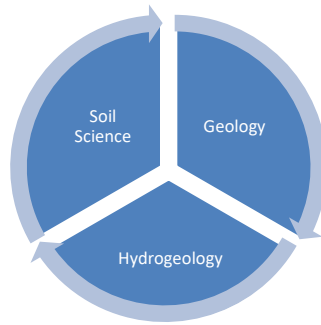
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ATTACHMENT C – SOILS REPORT

- Soils Report - Protocol Sampling Service, Inc.



4114 Laurel Ridge Drive
Raleigh, North Carolina 27612

Protocol Sampling Service, Inc.
"Experts in Environmental Compliance"
(919) 210-6547

Protocolsampling@yahoo.com
Environmentalservicesnc.com

October 20, 2025

Mr. David Klebitz, P. E.
Bissell Professional Group, Inc.
Post Office Box 1068
Kitty Hawk, North Carolina 27949
Email: davek@bissellprofessionalgroup.com

Re: **Soil Inspection – Stormwater
Just for the Beach Rentals Warehouse
117 West Side Lane
Powells Point, Currituck County, North Carolina 27966
Protocol Project No. 25-131**

Dear Mr. Klebitz:

The subject property that will be developed for the Just for the Beach Rentals warehouse was inspected by Protocol Sampling Service, Inc., personnel on Wednesday, September 3, 2025. Protocol personnel inspected the lot by advancing one (1) soil boring for lithologic description, depth to the seasonal high-water table, permeability and the depth to static water table in the center of the proposed stormwater disposal area (Commercial Site Development Plan – attached).

The northeast portion of the property comprises one (1) proposed infiltration basin. The proposed basin contains a surveyed elevation of 13.03-feet msl. The seasonal high-water table was found to be at 53 inches below land surface (elevation 8.61'-msl) and the static water table was not found to a depth of 60-inches below the soil surface (elevation <8.03'-msl). The soil porosity ranges from 20 to 25% with infiltration rates exceeding 20-inches/hour in the underlying sand with a seasonal high-water table elevation of at least 53-inches below land surface.

Due to the former use of the site as an automobile scrap yard, any non-native fill soil that may be encountered while constructing the basin should be removed and replaced with clean beach sand from the projected basin bottom to the sand layer at 40-inches below land surface to ensure proper infiltration rates.

The findings presented herein represent Protocol Sampling Service, Inc.'s professional opinion based on our site and soils evaluation and knowledge of the current laws and rules governing stormwater regulations in North Carolina.

Please call me at (919) 210-6547 if you have any questions or comments.

Sincerely,
Protocol Sampling Service, Inc.

David E. Meyer, N.C.L.S.S.
President



Soil Profile Description
Just for the Beach Rentals Warehouse

- A 0 – 10 inches; dark brown (7.5YR 3/3) loamy fine sand; granular; friable.
- E 10 – 24 inches; yellowish brown (10YR 5/4) loamy sand; granular; friable.
- Bt 24 – 36 inches; brownish yellow (10YR 6/8) sandy loam; subangular blocky; friable.
- BC 36 – 40 inches; brownish yellow (10YR 6/8) and very pale brown (10YR 7/4) loamy sand; subangular blocky; friable.
- C1 40 – 60 inches; brownish yellow (10YR 6/8) fine sand with strong brown (7.5YR 5/6) concentrations and gray (10YR 6/1) depletions; single grained; loose

Soil Series: Conetoe
Landscape: Coastal Plain
Landform: terrace
Parent Material: Marine sediments
Drainage Class: well drained
Particle Size Class: sandy
Temperature Regime: thermic
Subgroup Classification: Arenic Hapludult
Examination Method: auger boring
Date: September 3, 2025
Weather: Sunny, 55
Investigators: David Meyer
Shwt: 53"
Measured water table depth: >60"
Surface elevation: 13.03'



VICINITY MAP NOT TO SCALE

1. AREA DETERMINED BY COORDINATE METHOD.
2. IRON PINS AT ALL LOT CORNERS UNLESS OTHERWISE NOTED HEREON.
3. CALCULATIONS ARE NAVD83 DATUM.
4. UNDERGROUND UTILITIES WERE NOT LOCATED BY THIS SURVEY, FURTHER EVALUATION MAY BE REQUIRED.
5. THIS SURVEY IS SUBJECT TO ANY FACTS THAT MAY BE DISCLOSED BY A FIRM AND ACCURACY OF THIS SURVEY IS NOT GUARANTEED.
6. SUBJECT PROPERTY IS LOCATED IN F.I.R.M. ZONE X. REFERENCE F.I.R.M. PANEL # 37209837000, EFFECTIVE DATE: DECEMBER 21, 2018. (SUBJECT TO CHANGE BY FEMA.)
7. PARCEL ID NO. 012400000020000
8. RECORDED REFERENCE: P.C. H, S.L. 62
9. PROPERTY OWNER(S): JAMES EATON AND JESSICA JENNINGS
10. PROPERTY ADDRESS: 117 WEST SIDE LANE
11. PROPERTY ZONING: HI (HEAVY INDUSTRIAL)
12. LOT COVERAGE DATA:

LOT AREA: 23.937 SF

EXISTING:	
STRUCTURES:	741 SF
CONCRETE:	3,077 SF
GRAVEL:	739 SF
TOTAL:	4,557 SF
PERCENT COVERAGE:	19.04%

PROPOSED:

PROPOSED:
STRUCTURES: 5,960 SF
CONCRETE: 3,743 SF
GRAVEL: 2,636 SF
TOTAL: 12,339 SF (7,782 SF ADDITIONAL < 10,000 SF)
PERCENT COVERAGE: 51.5% (<65%)

PARKING DATA:
REQUIRED - (WAREHOUSE STORAGE & DISTRIBUTION)
5,960 SF @ (1) SPACE/2,500 SF = 2.4 SPACES

PROVIDED - 3.0 SPACES AS SHOWN

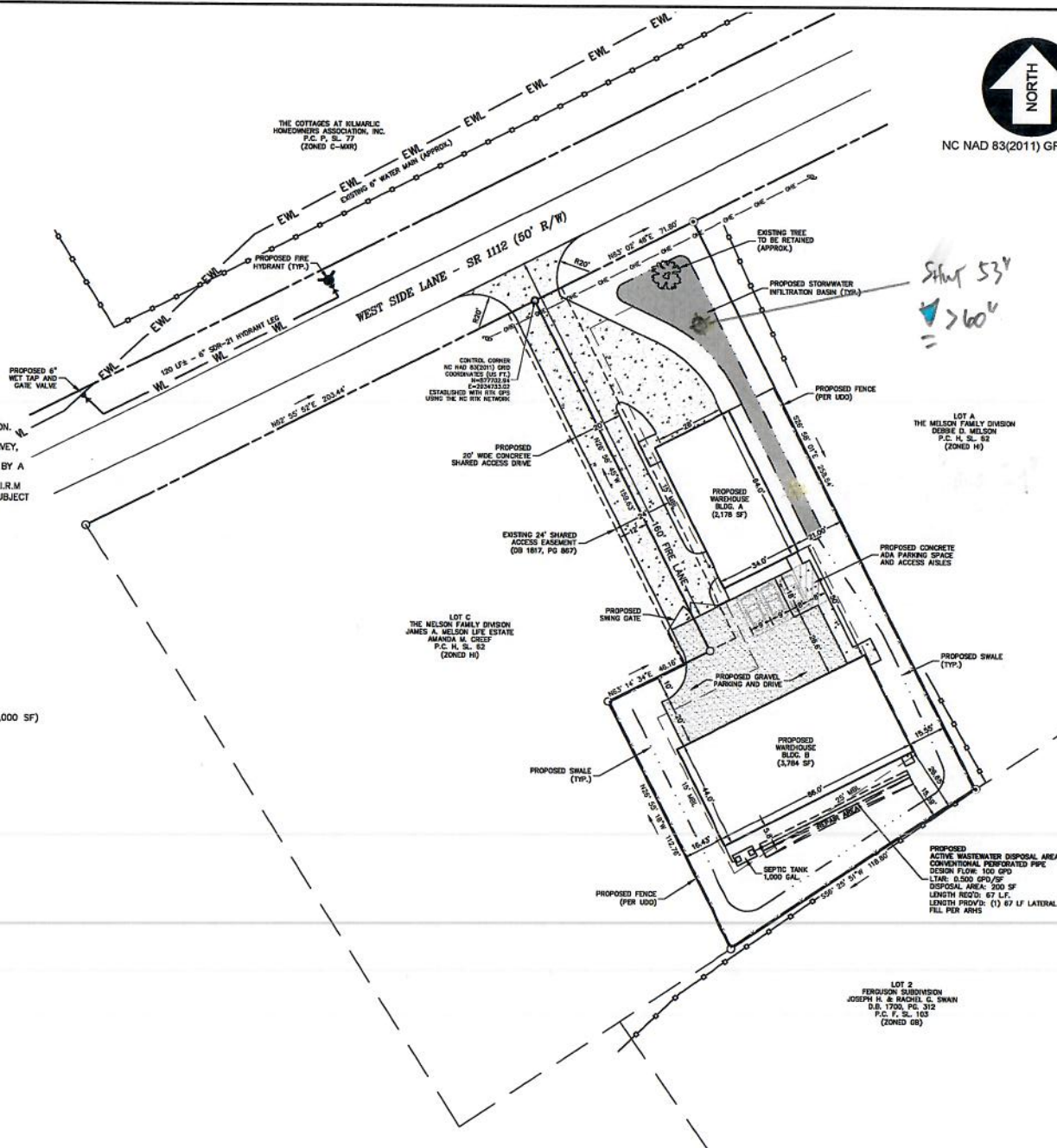
LEGEND	
□	ROADWAY CONDUIT
□	ROUT-OF-WAY
□	PROPERTY BOUNDARY
□	EXISTING PROPERTY LINE
□	BIODIGEST
□	EXISTING CONCRETE WALKWAY
□	SET CONCRETE MONUMENT
□	SET IRON ROD
□	EXISTING IRON ROD
□	EXISTING FENCE POLE
□	PROPOSED FENCE
□	TELEPHONE POCKET
□	UTILITY POLE
□	CHANGING UTILITY LINES
□	DAY WIRE
□	EXISTING STOP ORLANDO AVENUE
□	WATER METER
□	STREET ADDRESS
□	POST TO SCALE
□	PLANT CANNY
□	DEED BOOK
□	SLURK
□	SEAWAY FENCE



GRAPHIC SCALE



NC NAD 83(2011) GRID NORTH



Stunt 53'

LOT A
THE MELSON FAMILY DIVISION
DERRIE D. MELSON
P.C. H. SL. 62
(ZONED H)

LOT 2
FERGUSON SUBDIVISION
JOSEPH H. & RACHEL C. SWAN
D.B. 1700, PG. 312
P.C. F. SL. 103
(ZONED OB)

Bissell Professional Group
Firm License # C-958
10000 North Oatton Highway
P.O. Box 10000
Kitty Hawk, North Carolina 27949
(252) 261-3286
FAX (252) 261-1760

JAMES EATON
LOT B THE MELSON FAMILY DIVISION

[illegible]

PROGRESS DRAWING
DO NOT USE FOR
CONSTRUCTION

DATE: 8-05-2025	SCALE: 1"=30'
DESIGNED: BPG	CHECKED: DMK
DRAWN: MCW/DMK	APPROVED: BPG

SHEET:
1 of 1

CAD FILE:
2024-04400B3

PROJECT NO:
2024-044

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ATTACHMENT D – STORMWATER MANAGEMENT CALCULATIONS

- Currituck - 2 yr-24 hr Wooded Pre-Development Rational Method Calculations
- Currituck - 5 Yr-24 hr Post-Development Rational Method Calculations
- Currituck – Storage Volume and Drawdown Calculations
- 10 Yr -24hr Post-Development EPA SWMM Model Results

Rational Method Calculator

Just for the Beach Rentals Warehouse
Pre-Construction (Wooded, 2-yr, 24 hr rainfall event)
Curr SW Manual Sec 2.4.3.A, Rational Method

"= Input"
"= Calculated"

Area = 0.55 Ac. (DA#1)
C = 0.2 (Woods, Table 2-2)
P = 4.0 in, (2yr-24hr rain depth, Table 2-7)

Time of Concentration:

Sheet Flow

Mannings n = 0.1 (Woods, Table 2-4)
Elev Up = 13.40
Elev Down = 11.45
Length = 150
Slope = 0.013 ft/ft
Tc₁ = 10.41 min

Shallow Concentrated Flow

Land Use = Unpaved
Elev. Up = 0
Elev. Down = 0
Length = 0 ft
Slope = #DIV/0! ft/ft
Velocity = #DIV/0! fpm (=972xS^{0.53})
Tc₂ = #DIV/0! min (=L/V)

Channel Flow

Mannings n = 0 (Grass, Table2-4)
Elev Up = 0
Elev Down = 0.00
Length = 0
A = 0 sf
W = 0 ft
R = #DIV/0! ft (=A/w)
Slope = #DIV/0! ft/ft
Velocity = #DIV/0! fps (=1.49*[(R^{0.67}*S^{0.5})/n])
Tc₃ = #DIV/0! min (=L/60V)

Total Time of Concentration

Total Tc = 10.41 min (=Tc₁+Tc₂+Tc₃)

Peak Flow Calculation:

Intensity, I = 4.80 in/hr (2 yr, Interpolated from Table 2-5)
Q₂ = 0.53 cfs (Q=CiA)

Runoff Depth Calculator

Just for the Beach Rentals Warehouse
Post-Construction (5-yr, 24 hr rainfall event)
Curr SW Manual Sec 2.4.3.B, (Steps 2 & 3)

= Input"
"= Calculated"

Composite Cn Calculation: (Table 2-6)

Coverage	Cn	Area	Weighted Area
Impervious (A Soils)	98	0.28	27.44
Open Space (A Soils)	49	0.27	13.23

Composite Cn = 73.95

Calculate Runoff Depth:

S = 3.52 (S = 1000/Cn-10)

P = 5.0 in. (5-YR, 24-HR, Table 2-7)

Q(Depth)= 2.36 in.

Rational Method Calculator

Just for the Beach Rentals Warehouse
Post-Construction (5-yr, 24 hr rainfall event)
Curr SW Manual Sec 2.4.3.A, Rational Method

"= Input"
"= Calculated"

Area = 0.55 Ac. (DA#1)

Composite C Calculation: Table 2-2

Coverage	C	Area	Weighted Area
Impervious	0.95	0.28	0.266
Open Space	0.25	0.27	0.07

Composite C = 0.61

Time of Concentration:

Total Tc = 5.00 min (Conservative assumption based on experience with similar small commercial sites)

Peak Flow Calculation:

Intensity, I = 6.82 in/hr (5-yr, Table 2-5)

$Q_5 = 2.27$ cfs (Q=CiA)

Storage Volume Required Calculator

Just for the Beach Rentals Warehouse
Pre /Post -Construction (2-yr / 5yr, 24 hr mitigation)
Curr SW Manual Sec 2.4.4

"= Input"

"= Calculated"

Summary from other calculations:

Drainage Area = 0.55 ac.
Q₂(pre) = 0.53 cfs
Q₅(post) = 2.27 cfs
Q(Depth) = 2.36 in.

Calculate Runoff Volume:

Vr = 0.108 ac-ft (Vr = Q_{depth}/12*A)

Calculate Required Storage Volume:

Vs = 134.0 cy (Vs = 1613.33 * Vr * (1 - Q₂/Q₅))

Vs = 3,617 cf

Calculate Storage Volume Provided:

	Elev. (ft)	Area (sf)	Storage (cf)
Basin Bottom	11.00	1,035	
Contour	12.00	2,154	1,595
Contour	13.00	3,339	2,747
Basin Top	13.25	3,639	872
Open Storage Volume =			5,213 cf

Interstitial Storage

Basin Bottom Area: 1,035 sf
Basin Bottom Elev.: 11.00 ft
SHWT Elev: 9.00 ft
Soil Void: 25%

Interstitial Storage Volume = 518 cf

Total Storage Volume Provided = 5,731 cf

Estimated 5yr Stage = 12.60 ft
Basin Area @ 5yr Stage = 2,862 sf
Basin Volume @ 5yr Stage = 3,635 cf, includes interstitial storage

Infiltration Calculator

Just for the Beach Rentals Warehouse
Infiltration System Drawdown Calculations
NCDEQ SCM Manual

= Input"
 = Calculated"

Summary of calculation:

Equation, $T = FS * (Dv * 12)/(K * SA)$
T = Dewatering (drawdown) Time (hrs)
FS = Factor of Safety
Dv = Design Volume (cf)
K = Hydraulic Conductivity (in/hr)
SA = Surface Area of bottom of infiltration basin (SF)

Calculate Drawdown time:

Fs =		2
DV =		5,213 cf, (Full Capacity)
K =		20 in/hr
SA =		1,035 sf
T =		6.04 hrs
T =		0.25 days

NOTE: The summary statistics displayed in this report are based on results found at every computational time step, not just on results from each reporting time step.

Analysis Options

Flow Units CFS
Process Models:
 Rainfall/Runoff YES
 RDII NO
 Snowmelt NO
 Groundwater NO
 Flow Routing YES
 Ponding Allowed YES
 Water Quality NO
Infiltration Method CURVE_NUMBER
Flow Routing Method DYNWAVE
Surcharge Method EXTRAN
Starting Date 01/01/2024 00:00:00
Ending Date 01/07/2024 06:00:00
Antecedent Dry Days 0.0
Report Time Step 00:15:00
Wet Time Step 00:05:00
Dry Time Step 01:00:00
Routing Time Step 0.67 sec
Variable Time Step YES
Maximum Trials 8
Number of Threads 1
Head Tolerance 0.005000 ft

*****	Volume	Depth	
Runoff Quantity Continuity	acre-feet	inches	
*****	-----	-----	
Total Precipitation	0.258	5.740	10-yr 24-hr Storm Event

Evaporation Loss	0.000	0.000
Infiltration Loss	0.134	2.985
Surface Runoff	0.122	2.708
Final Storage	0.002	0.051
Continuity Error (%)	-0.081	

*****	Volume	Volume
Flow Routing Continuity	acre-feet	10^6 gal
*****	-----	-----
Dry Weather Inflow	0.000	0.000
Wet Weather Inflow	0.122	0.040
Groundwater Inflow	0.000	0.000
RDII Inflow	0.000	0.000
External Inflow	0.000	0.000
External Outflow	0.000	0.000
Flooding Loss	0.000	0.000
Evaporation Loss	0.000	0.000
Exfiltration Loss	0.000	0.000
Initial Stored Volume	0.000	0.000
Final Stored Volume	0.121	0.040
Continuity Error (%)	0.468	

Highest Continuity Errors

Node SW-02 (22.51%)

Node SW-03 (8.85%)

Node SW-04 (2.91%)

Node SCM (1.40%)

Time-Step Critical Elements

None

Highest Flow Instability Indexes

All links are stable.

Routing Time Step Summary

Minimum Time Step : 0.04 sec
Average Time Step : 0.67 sec
Maximum Time Step : 0.67 sec
Percent in Steady State : -0.00
Average Iterations per Step : 2.00
Percent Not Converging : 0.00

Subcatchment Runoff Summary

--									
Runoff	Total	Total	Total	Total	Imperv	Perv	Total	Total	Peak
Coeff	Precip	Runon	Evap	Infil	Runoff	Runoff	Runoff	Runoff	Runoff
Subcatchment	in	in	in	in	in	in	in	10^6 gal	CFS

--									
DA-04	5.74	0.00	0.00	0.98	0.00	4.68	4.68	0.01	0.29
0.816									
DA-03	5.74	0.00	0.00	1.10	0.00	4.59	4.59	0.00	0.14
0.800									
DA-02	5.74	0.00	0.00	1.34	0.00	4.36	4.36	0.01	0.27
0.759									
DA-01	5.74	0.00	0.00	1.22	0.00	4.46	4.46	0.01	0.26
0.777									
DA-07	5.74	0.00	0.00	3.28	0.00	2.43	2.43	0.01	0.42
0.424									
DA-06	5.74	0.00	0.00	5.69	0.00	0.00	0.00	0.00	0.00
0.000									
DA-05	5.74	0.00	0.00	1.77	0.00	3.93	3.93	0.00	0.08
0.684									
DA-SCM	5.74	0.00	0.00	5.69	0.00	0.00	0.00	0.00	0.00

0.000									
DA-08	5.74	0.00	0.00	5.71	0.00	0.00	0.00	0.00	0.00
0.000									

Node Depth Summary

Node	Type	Average Depth Feet	Maximum Depth Feet	Maximum HGL Feet	Time of Max Occurrence days hr:min		Reported Max Depth Feet
CB-01	JUNCTION	1.68	1.85	12.95	4	14:02	1.85
SW-02	JUNCTION	0.65	0.72	12.95	4	19:36	0.72
SW-01	JUNCTION	0.40	0.45	12.95	4	05:34	0.45
SW-03	JUNCTION	0.79	0.88	12.95	4	05:18	0.88
SW-04	JUNCTION	0.86	0.96	12.95	5	01:53	0.96
Outfall1	OUTFALL	0.00	0.00	13.00	0	00:00	0.00
SCM	STORAGE	2.24	2.45	12.95	4	20:05	2.45

10yr Max HGL

Node Inflow Summary

Node	Type	Maximum Lateral Inflow CFS	Maximum Total Inflow CFS	Time of Max Occurrence days hr:min		Lateral Inflow Volume 10^6 gal	Total Inflow Volume 10^6 gal	Flow Balance Error Percent
CB-01	JUNCTION	0.27	0.27	0	12:12	0.00711	0.00721	3.208
SW-02	JUNCTION	0.00	0.08	0	12:06	0	0.00507	29.053
SW-01	JUNCTION	0.08	0.08	0	12:12	0.00213	0.00286	9.875
SW-03	JUNCTION	0.42	0.44	0	12:13	0.0106	0.0161	9.704
SW-04	JUNCTION	0.00	1.65	0	12:49	0	0.0307	3.002
Outfall1	OUTFALL	0.00	0.00	0	00:00	0	0	0.000 gal
SCM	STORAGE	0.69	1.88	0	12:49	0.0199	0.0544	1.421

Node Surge Summary

Surcharging occurs when water rises above the top of the highest conduit.

Node	Type	Hours Surcharged	Max. Height Above Crown Feet	Min. Depth Below Rim Feet

CB-01	JUNCTION	137.19	0.599	0.551

Node Flooding Summary

No nodes were flooded.

Storage Volume Summary

Storage Unit	Average Volume 1000 ft3	Avg Pcnt Full	Evap Pcnt Loss	Exfil Pcnt Loss	Maximum Volume 1000 ft3	Max Pcnt Full	Time of Max Occurrence days hr:min	Maximum Outflow CFS

SCM	4.263	25	0	0	4.686	28	4 20:05	1.53

Outfall Loading Summary

Outfall Node	Flow Freq Pcnt	Avg Flow CFS	Max Flow CFS	Total Volume 10^6 gal

Outfall1	0.00	0.00	0.00	0.000

System	0.00	0.00	0.00	0.000

Link Flow Summary

Link	Type	Maximum Flow CFS	Time of Max Occurrence days hr:min	Maximum Veloc ft/sec	Max/ Full Flow	Max/ Full Depth
P-01	CONDUIT	0.25	0 12:12	1.08	0.07	1.00
SW02-SW03	CONDUIT	0.07	0 12:17	0.26	0.01	0.53
SW01-SW02	CONDUIT	0.08	0 12:12	0.47	0.01	0.39
SW03-SW04	CONDUIT	0.42	0 12:15	0.99	0.05	0.61
SW04-SCM	CONDUIT	1.72	0 12:49	0.47	0.01	0.74
OVERFLOWWEIR	WEIR	0.00	0 00:00			0.00

Flow Velocity < 4 fps

Flow Classification Summary

Conduit	Adjusted /Actual Length	Fraction of Time in Flow Class								
		Up Dry	Up Dry	Down Dry	Sub Crit	Sup Crit	Up Crit	Down Crit	Norm Ltd	Inlet Ctrl
P-01	1.00	0.06	0.00	0.00	0.92	0.00	0.00	0.02	0.00	0.00
SW02-SW03	1.00	0.07	0.00	0.00	0.93	0.00	0.00	0.00	0.01	0.00
SW01-SW02	1.00	0.07	0.00	0.00	0.93	0.00	0.00	0.00	0.02	0.00
SW03-SW04	1.00	0.07	0.00	0.00	0.93	0.00	0.00	0.00	0.00	0.00
SW04-SCM	1.00	0.05	0.02	0.00	0.93	0.00	0.00	0.00	0.01	0.00

Conduit Surcharge Summary

Conduit	Hours Both Ends	Hours Full Upstream	Hours Full Dnstream	Hours Above Full Normal Flow	Hours Capacity Limited
---------	--------------------	------------------------	------------------------	------------------------------------	------------------------------

P-01	137.19	137.19	137.40	0.01	0.01
SW04-SCM	0.01	0.01	136.47	0.01	0.01

Analysis begun on: Fri Oct 17 14:41:26 2025
Analysis ended on: Fri Oct 17 14:41:28 2025
Total elapsed time: 00:00:02



Major Stormwater Plan Form SW-002

OFFICIAL USE ONLY:

Permit Number: _____
Date Filed: _____
Date Approved: _____

Contact Information**APPLICANT:**

Name: _____

Address: _____

Telephone: _____

E-Mail Address: _____

PROPERTY OWNER:

Name: _____

Address: _____

Telephone: _____

E-Mail Address: _____

Property Information

Physical Street Address: _____

Parcel Identification Number(s): _____

FEMA Flood Zone Designation: _____

Request

Project Description: _____

Total land disturbance activity: _____ sf Calculated volume of BMPs: _____ sf

Maximum lot coverage: _____ sf Proposed lot coverage: _____ sf

TYPE OF REQUEST

- ☐ Major subdivision (10-year, 24-hour rate)
☐ Major site plan (5-year, 24-hour rate)

METHOD USED TO CALCULATE PEAK DISCHARGE

- ☐ Rational Method
☐ NRCS Method (TR-55 and TR-20)
☐ Simple volume calculation for small sites (less than 10 acres)
☐ Alternative stormwater runoff storage analysis
☐ Downstream drainage capacity analysis

I hereby authorize county officials to enter my property for the purpose of determining compliance. All information submitted and required as part of this process shall become public record.

Applicant

Property Owner(s)

10/23/25

Date

10/23/25

Date

***NOTE:** Form must be signed by the owner(s) of record, contract purchaser(s), or other person(s) having a recognized property interest. If there are multiple property owners/applicants a signature is required for each.

Major Stormwater Plan Design Standards Checklist

The table below depicts the design standards of the major stormwater plan application. Please make sure to include all applicable listed items to ensure all appropriate standards are reviewed.

Major Stormwater Plan Design Standards Checklist

Date Received: _____

Project Name: _____

Applicant/Property Owner: _____

Minor Stormwater Plan Design Standards Checklist		
General		
1	Property owner name and address.	
2	Site address and parcel identification number.	
3	North arrow and scale to be 1" = 100' or larger.	
Site Features		
4	Scaled drawing showing existing and proposed site features: Property lines with dimensions, acreage, streets, easements, structures (dimensions and square footage), fences, bulkheads, septic area (active and repair), utilities, vehicular use areas, driveways, and sidewalks.	
5	Approximate location of all designated Areas of Environmental Concern (AEC) or other such areas which are environmentally sensitive on the property, such as Maritime Forest, CAMA, 404, or 401 wetlands as defined by the appropriate agency.	
6	Existing and proposed ground elevations shown in one foot intervals. All elevation changes within the past six months shall be shown on the plan.	
8	Limits of all proposed fill, including the toe of fill slope and purpose of fill.	
9	Square footage of all existing and proposed impervious areas (structures, sidewalks, walkways, vehicular use areas regardless of surface material), including a description of surface materials.	
10	Existing and proposed drainage patterns, including direction of flow.	
11	Location, capacity, design plans (detention, retention, infiltration), and design discharge of existing and proposed stormwater management features.	
12	Elevation of the seasonal high water level as determined by a licensed soil scientist.	
13	Plant selection.	
Permits and Other Documentation		
14	NCDENR stormwater permit application (if 10,000sf or more of built upon area).	
15	NCDENR erosion and sedimentation control permit application (if one acre or more of land disturbance).	
16	NCDENR coastal area management act permit application, if applicable.	
17	Stormwater management narrative with supporting calculations.	
18	Rational Method Form SW-003 or NRCS Method Form SW-004	
19	Alternative stormwater runoff storage analysis and/or downstream drainage capacity analysis, if applicable	
20	Design spreadsheets for all BMPs (<i>Appendix F – Currituck County Stormwater Manual</i>).	
21	Detailed maintenance plan for all proposed BMPs.	

Certificate	
22	The major stormwater plan shall contain the following certificate: I, _____, owner/agent hereby certify the information included on this and attached pages is true and correct to the best of my knowledge. On the plan entitled _____, stormwater drainage improvements shall be installed according to these plans and specifications and approved by Currituck County. Yearly inspections are required as part of the stormwater plan. The owner is responsible for all maintenance required. Currituck County assumes no responsibility for the design, maintenance, or performance of the stormwater improvements. Date: _____ Owner/Agent: _____

Major Stormwater Plan Submittal Checklist

Staff will use the following checklist to determine the completeness of your application. Please make sure all the listed items are included. Staff shall not process an application for further review until it is determined to be complete.

Major Stormwater Plan Form SW-002

Submittal Checklist

Date Received: _____

Project Name: _____

Applicant/Property Owner: _____

Major Stormwater Plan Form SW-002 Submittal Checklist – Documents provided on USB flash drive or CD		
1	Completed Major Stormwater Plan Form SW-002	
2	Completed Rational Method Form SW-003 or NRCS Method Form SW-004	
3	Stormwater plan	
4	NCDENR permit applications, if applicable	

Comments



Rational Method Peak Flow Form SW-003

Project Information

Project Location: 117 West Side Ln. Powells Point, NC 27966

Parcel Identification Number(s): 0124-000-062E-0000

Drainage area: _____ ac

Average Slope: _____ %

Maximum Slope Length: _____ ft

See Pre & Post Development
Rational Method Calculations
under Attachment "D" of
Stormwater Report

Calculations

*The Rational Method may only be used where development will impact less than 10 acres

Time of Concentration (Tc) (Use additional sheets if necessary)			
	Pre-	Post-	
<u>Sheet Flow</u>			
Manning's roughness, n (Table 2-4)			
2-year, 24-hour Rainfall, P	4.0	6.0	in
Slope, S			ft/ft
Length of Sheet Flow, L (<=300 feet)			ft
Total Time for Sheet Flow			min
<u>Shallow Concentrated Flow</u>			
Surface Paved (P) or Unpaved (U)			
Length of flow, L			ft
Slope, S			ft/ft
Average Velocity, V (Table 2-3)			ft/min
Total Time for Shallow Concentrated Flow			min
<u>Channel Flow</u>			
Pipe (P) or Channel (C)			
If pipe: Diameter, D			in
If channel: Bottom Width, w			ft
If channel: side slope 1 (____:1)			
If channel: side slope 2 (____:1)			
Cross sectional flow area, A			sq ft
Wetted perimeter, Wp			ft
Hydraulic radius, R = A/Wp			ft

Time of Concentration (Tc) (Use additional sheets if necessary)			
	Pre-	Post-	
Channel slope, S			ft/ft
Manning's roughness, n (Table 2-4)			
Channel velocity			ft/sec
Length of Flow, L			ft/sec
Total Time for Channel Flow			min
Total Time of Concentration, Tc			min

Pre-development Conditions			
Land Use Description	C	Area (acres)	C*A
Woods	0.2		
Total			

Intensity for 2-year, 24-hour storm (Table 2-5) 4.80 in/hr

Pre-development peak flow, $Q = CiA$ 0.53 cfs

Post-development Conditions			
Land Use Description	C	Area (acres)	C*A
Totals			

Area-weighted C: 0.61

⁵
Intensity for 10-year, 24-hour storm (Table 2-5) 6.82 in/hr

Post-development peak flow, $Q = CiA$ 2.27 cfs

Minimum Storage Volume Required – Refer to Section 2.4.4 for Volume Calculations			
Storage Volume, V_s		<u>3,617</u>	ft ³

Applicant

Engineer

10-23-2025
Date

APPLICATION IDENTIFICATION		N.C. DEPARTMENT OF TRANSPORTATION	
Driveway Permit No.	Date of Application 10-27-25	STREET AND DRIVEWAY ACCESS PERMIT APPLICATION	
County: Currituck			
Development Name: Just for the Beach Rentals Warehouse			
LOCATION OF PROPERTY:			
Route/Road: SR 1112 (West Side Ln.)			
Exact Distance 485	☐ Miles ☒ Feet	N ☐ S ☐ E ☐ W ☐ ☐ ☐ ☒	
From the Intersection of Route No. SR 1112 and Route No. US Hwy 158 Toward Kilmarlic			
Property Will Be Used For: ☐ Residential /Subdivision ☒ Commercial ☐ Educational Facilities ☐ TND ☐ Emergency Services ☐ Other			
Property: ☒ is ☐ is not within Currituck County City Zoning Area.			
AGREEMENT			
• I, the undersigned property owner, request access and permission to construct driveway(s) or street(s) on public right-of-way at the above location. • I agree to construct and maintain driveway(s) or street entrance(s) in absolute conformance with the current "Policy on Street and Driveway Access to North Carolina Highways" as adopted by the North Carolina Department of Transportation. • I agree that no signs or objects will be placed on or over the public right-of-way other than those approved by NCDOT. • I agree that the driveway(s) or street(s) will be constructed as shown on the attached plans. • I agree that that driveway(s) or street(s) as used in this agreement include any approach tapers, storage lanes or speed change lanes as deemed necessary. • I agree that if any future improvements to the roadway become necessary, the portion of driveway(s) or street(s) located on public right-of-way will be considered the property of the North Carolina Department of Transportation, and I will not be entitled to reimbursement or have any claim for present expenditures for driveway or street construction. • I agree that this permit becomes void if construction of driveway(s) or street(s) is not completed within the time specified by the "Policy on Street and Driveway Access to North Carolina Highways". • I agree to pay a \$50 construction inspection fee. Make checks payable to NCDOT. This fee will be reimbursed if application is denied. • I agree to construct and maintain the driveway(s) or street(s) in a safe manner so as not to interfere with or endanger the public travel. • I agree to provide during and following construction proper signs, signal lights, flaggers and other warning devices for the protection of traffic in conformance with the current "Manual on Uniform Traffic Control Devices for Streets and Highways" and Amendments or Supplements thereto. Information as to the above rules and regulations may be obtained from the District Engineer. • I agree to indemnify and save harmless the North Carolina Department of Transportation from all damages and claims for damage that may arise by reason of this construction. • I agree that the North Carolina Department of Transportation will assume no responsibility for any damages that may be caused to such facilities, within the highway right-of-way limits, in carrying out its construction. • I agree to provide a Performance and Indemnity Bond in the amount specified by the Division of Highways for any construction proposed on the State Highway system. • The granting of this permit is subject to the regulatory powers of the NC Department of Transportation as provided by law and as set forth in the N.C. Policy on Driveways and shall not be construed as a contract access point. • I agree that the entire cost of constructing and maintaining an approved private street or driveway access connection and conditions of this permit will be borne by the property owner, the applicant, and their grantees, successors, and assignees. • I AGREE TO NOTIFY THE DISTRICT ENGINEER WHEN THE PROPOSED WORK BEGINS AND WHEN IT IS COMPLETED.			
2004-07 NOTE: Submit Four Copies of Application to Local District Engineer, N.C. Department of Transportation 61-03419 TEB 65-04rev.			

SIGNATURES OF APPLICANT

PROPERTY OWNER (APPLICANT)

COMPANY James Eaton and Jessica Jennings
SIGNATURE [Signature]
ADDRESS 138 Oyster Bed Ln.
Southern Shores, NC Phone No. 252-455-0205

WITNESS

NAME [Signature]
SIGNATURE [Signature]
ADDRESS _____

AUTHORIZED AGENT

COMPANY Bissell Professional Group
SIGNATURE [Signature]
ADDRESS 3512 N. Croatan Highway
Kitty Hawk, NC 27949 Phone No. 252-261-3266

WITNESS

NAME Marcue Respass
SIGNATURE [Signature]
ADDRESS PO Box 1008
Kitty Hawk, NC 27949

APPROVALS

APPLICATION RECEIVED BY DISTRICT ENGINEER

SIGNATURE

DATE

APPLICATION APPROVED BY LOCAL GOVERNMENTAL AUTHORITY (when required)

SIGNATURE

TITLE

DATE

APPLICATION APPROVED BY NCDOT

SIGNATURE

TITLE

DATE

INSPECTION BY NCDOT

SIGNATURE

TITLE

DATE

COMMENTS:

ROUTE SR 1112 PROJECT Just for the Beach Rental COUNTY OF STATE OF NORTH CAROLINA
Currituck

DEPARTMENT OF TRANSPORTATION

-AND-

James Eaton & Jessica Jennings

138 Oyster Bed Ln. Southern Shores NC 27949

-AND-

County of Currituck, North Carolina

153 Courthouse Rd. Currituck, NC 27929

THREE PARTY RIGHT OF WAY
ENCROACHMENT AGREEMENT ON
PRIMARY AND SECONDARY SYSTEM

THIS AGREEMENT, made and entered into this the _____ day of _____, 20____, by and between the Department of Transportation, party of the first part; and James Eaton & Jessica Jennings party of the second part; and County of Currituck, North Carolina party of the third part,

WITNESSETH

THAT WHEREAS, the party of the second part desires to encroach on the right of way of the public road designated as Route(s) SR 1112 (West Side Ln), located Approx. 560 feet west from the intersection with US HWY 158 (Caratoke Hwy.) towards Kilmarlic

with the construction and/or erection of: Fire Hydrant and water service installations to serve proposed warehouse development

WHEREAS, it is to the material advantage of the party of the second part to effect this encroachment, and the party of the first part in the exercise of authority conferred upon it by statute, is willing to permit the encroachment within the limits of the right of way as indicated, subject to the conditions of this agreement;

NOW, THEREFORE, IT IS AGREED that the party of the first part hereby grants to the party of the second part the right and privilege to make this encroachment as shown on attached plan sheet(s), specifications and special provisions which are made a part hereof upon the following conditions, to wit:

That the installation, operation, and maintenance of the above described facility will be accomplished in accordance with the party of the first part's latest POLICIES AND PROCEDURES FOR ACCOMMODATING UTILITIES ON HIGHWAY RIGHTS-OF-WAY, and such revisions and amendments thereto as may be in effect at the date of this agreement. Information as to these policies and procedures may be obtained from the Division Engineer or State Utility Agent of the party of the first part.

That the said party of the second part binds and obligates himself to install and maintain the encroaching facility in such safe and proper condition that it will not interfere with or endanger travel upon said highway, nor obstruct nor interfere with the proper maintenance thereof, to reimburse the party of the first part for the cost incurred for any repairs or maintenance to its roadways and structures necessary due to installation and existence of the facilities of the party of the second part, and if at any time the party of the first part shall require the removal of or changes in the location of the said facilities, that the said party of the second part binds himself, his successors and assigns, to promptly remove or alter the said facilities, in order to conform to the said requirement, without any cost to the party of the first part.

That the party of the second part agrees to provide during construction and any subsequent maintenance proper signs, signal lights, flagmen and other warning devices for the protection of traffic in conformance with the latest Manual on Uniform Traffic Control Devices for Streets and Highways and Amendments or Supplements thereto. Information as to the above rules and regulations may be obtained from the Division Engineer of the party of the first.

That the party of the second part hereby agrees to indemnify and save harmless the party of the first part from all damages and claims for damage that may arise by reason of the installation and maintenance of this encroachment.

That the party of the second part agrees to restore all areas disturbed during installation and maintenance to the satisfaction of the Division Engineer of the party of the first part. The party of the second part agrees to exercise every reasonable precaution during construction and maintenance to prevent eroding of soil; silting or pollution of rivers, streams, lakes, reservoirs, other water impoundments, ground surfaces or other property; or pollution of the air. There shall be compliance with applicable rules and regulations of the North Carolina Division of Environmental Management, North Carolina Sedimentation Control Commission, and with

ordinances and regulations of various counties, municipalities and other official agencies relating to pollution prevention and control. When any installation or maintenance operation disturbs the ground surface and existing ground cover, the party of the second part agrees to remove and replace the sod or otherwise reestablish the grass cover to meet the satisfaction of the Division Engineer of the party of the first part.

That the party of the second part agrees to assume the actual cost of any inspection of the work considered to be necessary by the Division Engineer of the party of the first part.

That the party of the second part agrees to have available at the construction site, at all times during construction, a copy of this agreement showing evidence of approval by the party of the first part. The party of the first part reserves the right to stop all work unless evidence of approval can be shown.

Provided the work contained in this agreement is being performed on a completed highway open to traffic; the party of the second part agrees to give written notice to the Division Engineer of the party of the first part when all work contained herein has been completed. Unless specifically requested by the party of the first part, written notice of completion of work on highway projects under construction will not be required.

That in the case of noncompliance with the terms of this agreement by the party of the second part, the party of the first part reserves the right to stop all work until the facility has been brought into compliance or removed from the right of way at no cost to the party of the first part.

That it is agreed by both parties that this agreement shall become void if actual construction of the work contemplated herein is not begun within one (1) year from the date of authorization by the party of the first part unless written waiver is secured by the party of the second part from the party of the first part.

During the performance of this contract, the second party, for itself, its assignees and successors in interest (hereinafter referred to as the "contractor"), agrees as follows:

- a. Compliance with Regulations: The contractor shall comply with the Regulations relative to nondiscrimination in Federally-assisted programs of the U. S. Department of Transportation, Title 49, Code of Federal Regulations, Part 21, as they may be amended from time to time, (hereinafter referred to as the Regulations), which are herein incorporated by reference and made a part of this contract.
- b. Nondiscrimination: The contractor, with regard to the work performed by it during the contract, shall not discriminate on the grounds of race, color, or national origin in the selection and retention of subcontractors, including procurements of materials and leases of equipment. The contractor shall not participate either directly or indirectly in the discrimination prohibited by Section 21.5 of the Regulations, including employment practices when the contract covers a program set forth in Appendix B of the Regulations.
- c. Solicitations for Subcontracts, including Procurements of Materials and Equipment: In all solicitations either by competitive bidding or negotiation made by the contractor for work to be performed under a subcontract, including procurements of materials or leases of equipment, each potential subcontractor or supplier shall be notified by the contractor of the contractor's obligations under this contract and the Regulations relative to nondiscrimination on the grounds of race, color, or national origin.
- d. Information and Reports: The contractor shall provide all information and reports required by the Regulations, or directives issued pursuant thereto, and shall permit access to its books, records, accounts, other sources of information, and its facilities as may be determined by the Department of Transportation or the Federal Highway Administration to be pertinent to ascertain compliance with such Regulations or directives. Where any information required of a contractor is in the exclusive possession of another who fails or refuses to furnish this information, the contractor shall so certify to the Department of Transportation, or the Federal Highway Administration as appropriate, and shall set forth what efforts it has made to obtain the information.
- e. Sanctions for Noncompliance: In the event of the contractor's noncompliance with the nondiscrimination provisions of this contract, the Department of Transportation shall impose such contract sanctions as it or the Federal Highway Administration may determine to be appropriate, including, but not limited to,
 - (1) withholding of payments to the contractor under the contract until the contractor complies, and/or
 - (2) cancellation, termination or suspension of the contract, in whole or in part.
- f. Incorporation of Provisions: The contractor shall include the provisions of paragraphs "a" through "f" in every subcontract, including procurements of materials and leases of equipment, unless exempt by the Regulations, or directives issued pursuant thereto. The contractor shall take such action with respect to any subcontract or procurement as the Department of Transportation or the Federal Highway Administration may direct as a means of enforcing such provisions including sanctions for noncompliance: Provided, however, that, in the event a contractor becomes involved in, or is threatened with, litigation with a subcontractor or supplier as a result of such direction, the contractor may request the Department of Transportation to enter into such litigation to protect the interests of the State, and, in addition, the contractor may request the United States to enter into such litigation to protect the interests of the United States.

That when title to the subject that constitutes the aforesaid encroachment passes from the party of the second part and vests in the party of the third part, the party of the third part agrees to assume all responsibilities and rights and to perform all obligations as agreed to herein by the party of the second part.

R/W (166) : Party of the Second Part certifies that this agreement is true and accurate copy of the form R/W (166) incorporating all revisions to date.

IN WITNESS WHEREOF, each of the parties to this agreement has caused the same to be executed the day and year first above written.

DEPARTMENT OF TRANSPORTATION

BY: _____
DIVISION ENGINEER

WITNESS:

WITNESS:

James Eaton & Jessica Jennings

Second Party

County of Currituck, North Carolina

Third Party

