

Currituck County Mainland Wastewater Moyock Commons Capacity Availability Form

County Contact Information

Will Rumsey, Utilities Manager
444 Maple Road

Phone: 252.232.2769

Maple, NC 27956

Fax: 252.453.3721

Website: <https://co.currituck.nc.us/departments/water/>

Request

This request is for:

- ☐ Single Family Residence
- ☐ Residential Development
- ☒ Non-residential

Owner Information

Name(s): 104 Lark, LLC

Mailing Address: 134 Moyock Landing Dr, Moyock, NC 27958

E-Mail Address: Ryancavanaugh100@gmail.com

Phone Number: (757) 647-3836

Applicant Information (if different from Owner)

Name(s): Same

Mailing Address:

E-Mail Address:

Phone Number:

Parcel Information

PIN(s): 0015-000-0751-0000

Street Address: 104 Lark Drive, Moyock, NC (Moyock Commons)

Project Information

Name of Project: Lark Drive Gym/Fitness Center

Number of Units: (see below) Projected Daily Project Demand (gpd): 12,650 gpd
(13,500 sq ft gym @ 50 gpd/100 sq ft + 8,000 sq ft attached retail @ 100 gpd/1000 sq ft) + 1500 sq ft office (4 empl.) + 120 seat restaurant + 20 seat single-service food

Anticipated Wastewater Access Date: Late 2025

Applicant's Signature

I declare, that to the best of my knowledge, the information provided herein is true, correct, and complete.


Property Owner/Applicant Signature

7-31-24 Updated 5-16-25

Date

Note: Sewer developmental fees are due at building permit application. See the Currituck County Master Fee Schedule for rates.
<https://co.currituck.nc.us/master-fee-schedule/>

For Office Use Only

☒ Wastewater capacity is available for this project.

☐ Wastewater capacity is not available for this project.

[Signature] 5-19-2025
Utilities Manager Date

[Signature] 6/12/2025
County Manager Date

This capacity availability is good for one year.

Moyock Fitness Commercial Site
104 Lark Drive
Stormwater Design Narrative
10/21/2025

**Background:**

This project proposes to develop Parcel D of the Moyock Commons Commercial Center as a fitness center & retail complex with two buildings consisting of multiple units each, along with associated parking and sidewalk infrastructure. The property is part of a larger commercial subdivision known as Moyock Commons that was developed in the late 1990's.

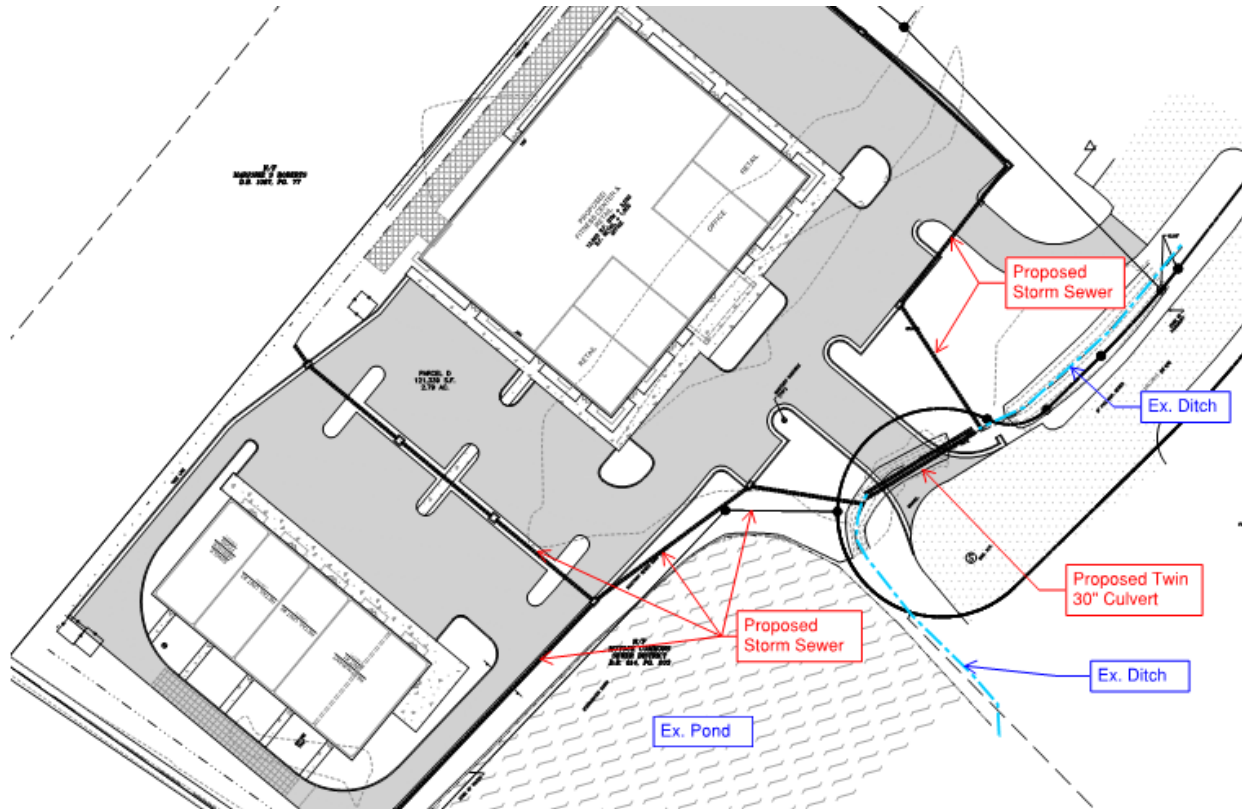
A centralized stormwater management system to serve the entirety of The Moyock Commons Commercial Subdivision at full build-out was permitted by NCDEQ and Currituck County during the original subdivision design process. In accordance with that permit, stormwater management infrastructure consisting of a swale collection system and a wet pond at the rear of the property were installed. NCDEQ Stormwater Permit #SW7980425 authorizes this work. Please note that the original permit allows up to 80% coverage within the development. The County's ordinance restricts coverage to 65% and so in order to meet the County's requirements, the NCDEQ Permit restrictions have been honored.

Per Currituck County Policy, development of a site within an existing subdivision that has a centralized stormwater management system previously approved and permitted by NCDEQ, and with the proposed development being within the limitations set forth in said permit, additional on-site SCM's are not required. This project meets these requirements. Therefore, the stormwater design will focus on proper sizing of conveyances and erosion protection, as well as checking erosive velocities throughout the on-site and downstream system.

Proposed Conditions:

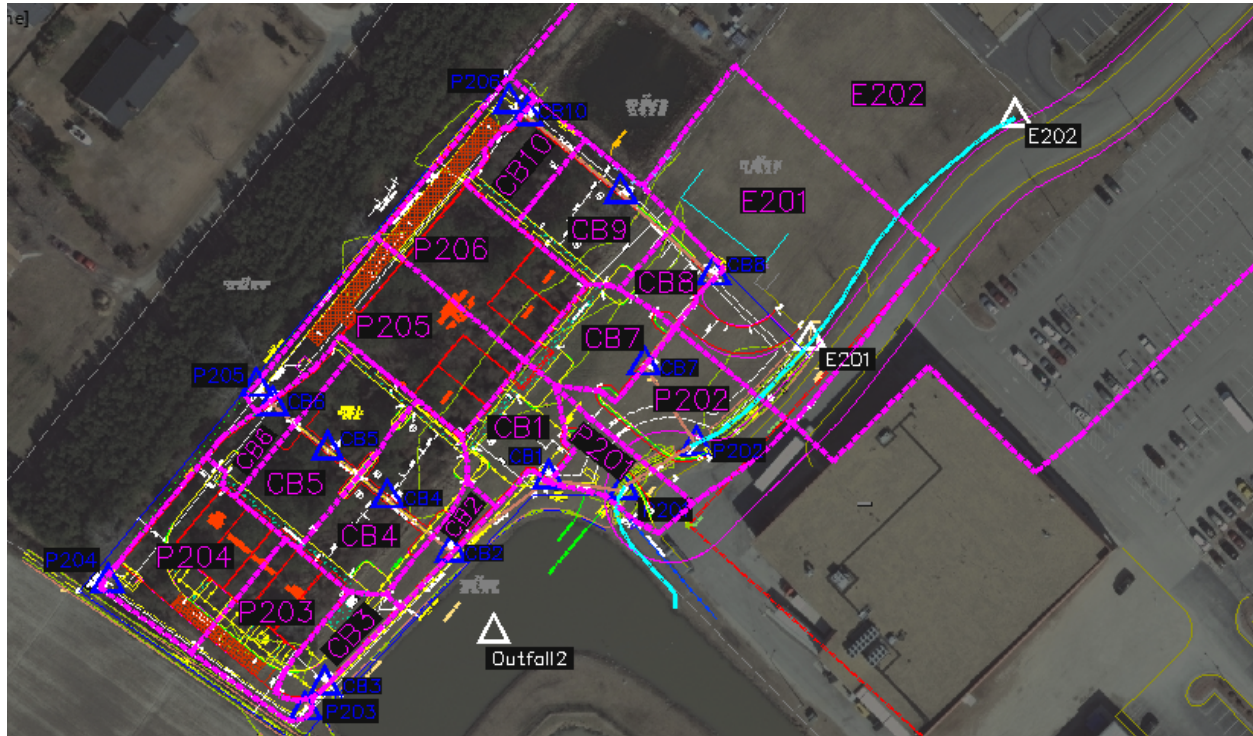
This project proposes to develop Parcel D of the Moyock Commons Commercial Center as a fitness center & retail complex with two buildings consisting of multiple units each, along with associated parking and sidewalk infrastructure. The lot area is 121,339 sf and the proposed impervious coverage is 78,309 sf (64.5 %). This proposed coverage falls within the lot coverage allowed by the NCDEQ Stormwater Permit as well as the Currituck County UDO. The project site is currently "fronted" by an existing ditch along Lark Drive, which conveys on-site and off-site runoff to the existing stormwater wet pond located to the southwest. The proposed project will collect on-site runoff in a storm sewer system and deliver this runoff to the existing Lark Drive ditch for conveyance to the existing stormwater pond. A single crossing of the ditch is proposed (vehicular entrance to the site) which will require the installation of twin 30"

culverts. These culverts are sized such that there is no post-construction increase in head in the existing ditch for the 10-yr, 24 hr rainfall event.

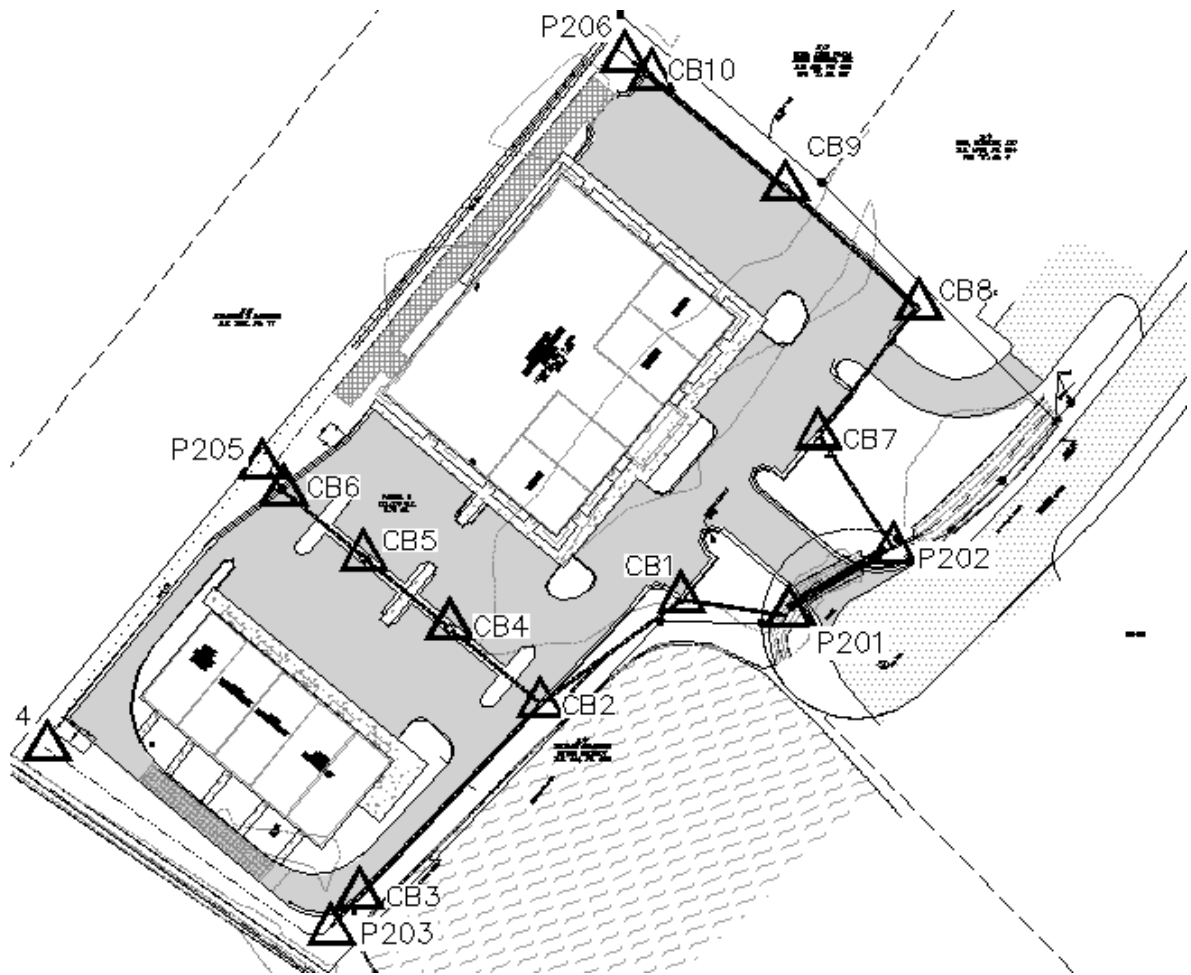


EPA SWMM Analysis:

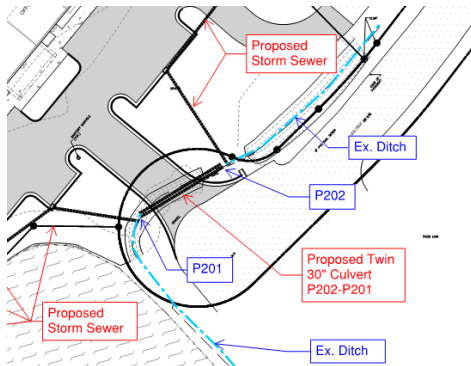
In order to analyze the effects of the proposed development on the existing ditch, an EPA SWMM Model was created of the project and the upstream drainage area within the Commercial Development with a detailed focus on the subject site in order to size the proposed storm sewer and proposed culverts, size erosion control protection, and to check erosive velocities within the ditch. A schematic view of the drainage layout, with the EPA SWMM Model node naming convention is shown below:



A blow-up of the Project site with SWMM Labeling:



Culvert P202-P201



Proposed: **Twin 60 LF – 30" HDPe N-12 @ 0.17% slope**
 Downstream Inv = 5.50'
 Upstream Inv = 5.60'

10-yr Post-Construction results, per SWMM Model:

Peak HGL @ P202 = 7.48' (Ex. EP @ +8.26', per survey → o.k.)

Peak Flow = 20.85 cfs (10.43 cfs per pipe)

Max Velocity = 2.79 fps

Rip-Rap Outlet sizing:

TW Depth (TW @ P201) = 1.68 ft

TW/D = 0.67 → therefore "maximum tailwater condition", use Figure 8.06b:

$d_{50} = 0.25 \text{ ft (3")}$

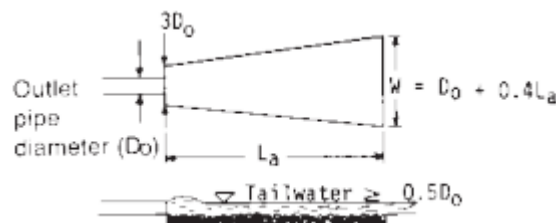
$d_{\text{max}} = 1.5 \times d_{50} = 0.375 \text{ ft (4.5")}$

Apron Thickness = $1.5 \times d_{\text{max}} = 0.563 \text{ ft (use 8")}$

Apron Length, $L_a = 11 \text{ ft}$

Apron Width at Discharge = $3 \times D_o + D_o + 0.5 = 10.5 \text{ ft (use 11 ft)}$

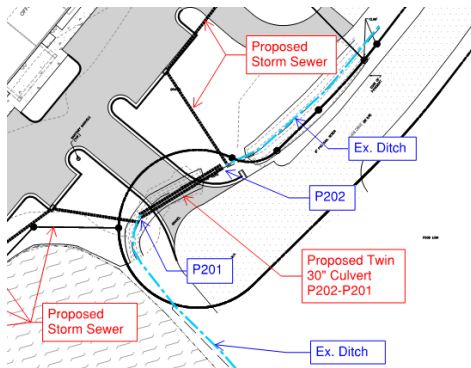
Apron Width at End of Apron, $W = 2 \times D_o + 0.5 + 0.4 L_a = 9.9 \text{ ft (use 11 ft)}$



➔ **Rip-Rap Apron to be 2"-5" angular stone, 8" Thickness, and 11 ft width x 11 ft length.**

Note: Per NCDEQ E&S Manual, Figure 8.06b, discharge conditions fall below the minimums within the graph. Therefore, the minimums from the graph were utilized (no interpolation).

Storm Sewer CB1- P201



Proposed: **55 LF – 24" HDPE N-12 @ 0.11% slope**
 Downstream Inv = 5.50' (Match Ex. Ditch)
 Upstream Inv = 5.56'

10-yr Post-Construction results, per SWMM Model:
 Peak HGL @ CB-1 = 7.26' (Top Structure @ 8.75' → o.k.)
 Peak Flow = 5.14 cfs
 Max Velocity = 1.92 fps

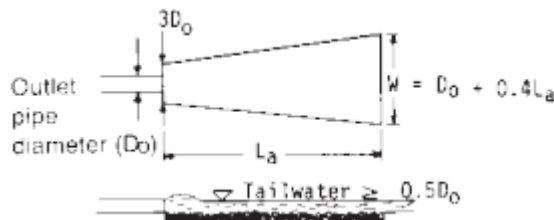
Rip-Rap Outlet sizing:
 TW Depth (TW @ P201) = 1.68 ft
 $TW/D = 0.67 \rightarrow$ therefore "maximum tailwater condition", use Figure 8

$$d_{50} = 0.25 \text{ ft (3")}$$

$$d_{\max} = 1.5 \times d_{50} = 0.375 \text{ ft (4.5")}$$

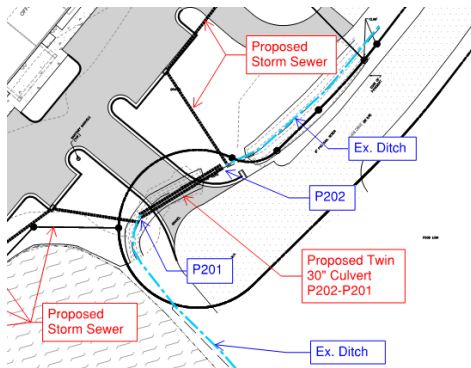
$$\text{Apron Thickness} = 1.5 \times d_{\max} = 0.563 \text{ ft (use 8")}$$

Apron Length, $L_a = 9 \text{ ft}$
 Apron Width at Discharge = $3 \times D_o = 9 \text{ ft}$
 Apron Width at End of Apron, $W = D_o + 0.4 L_a = 7.8 \text{ ft (use 9 ft)}$



➔ Storm Sewer Pipe P202-P201 shares a Rip-Rap Apron with culvert P202-P201. Apron sizing for P202-P201 is larger, therefore that sizing will be utilized: Rip-Rap Apron to be 2"-5" angular stone, 8" Thickness, and 11 ft width x 11 ft length.

Storm Sewer CB7- P202



Proposed: **70 LF – 18" HDPE N-12 @ 0.01% slope**
 Downstream Inv = 5.6' (Match Ex. Ditch)
 Upstream Inv = 5.67'

10-yr Post-Construction results, per SWMM Model:
 Peak HGL @ CB7 = 7.50' (Top Structure @ 8.35' → o.k.)
 Peak Flow = 2.42 cfs
 Max Velocity = 1.37 fps

Rip-Rap Outlet sizing:
 TW Depth (TW @ P202) = 1.77 ft
 $TW/D = 1.17 \rightarrow$ therefore "maximum tailwater condition", use Figure 8.06b:

$$d_{50} = 0.25 \text{ ft (3")}$$

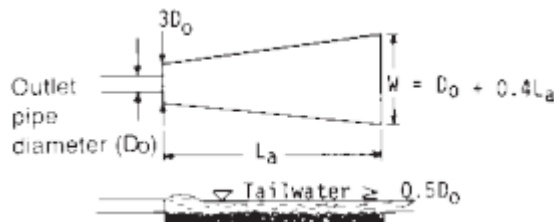
$$d_{\max} = 1.5 \times d_{50} = 0.375 \text{ ft (4.5")}$$

$$\text{Apron Thickness} = 1.5 \times d_{\max} = 0.563 \text{ ft (use 8")}$$

$$\text{Apron Length, } L_a = 9 \text{ ft}$$

$$\text{Apron Width at Discharge} = 3 \times D_o = 4.5 \text{ ft}$$

$$\text{Apron Width at End of Apron, } W = D_o + 0.4 L_a = 5.1 \text{ ft (use 6 ft)}$$



➔ **Rip-Rap Apron to be placed at the inlet end of the twin 30" entrance culvert. Therefore, use the same specification as the outlet end of the culvert: Rip-Rap Apron to be 2"-5" angular stone, 8" Thickness, and 11 ft width x 11 ft length.**

Note: Per NCDEQ E&S Manual, Figure 8.06b, discharge conditions fall below the minimums within the graph. Therefore, the minimums from the graph were utilized (no interpolation).

Erosive Velocity Check for Ditches impacted by Construction:

→ Check ditches within the project site and upstream / downstream of the project site

Per NCDEQ Erosion Control Manual:

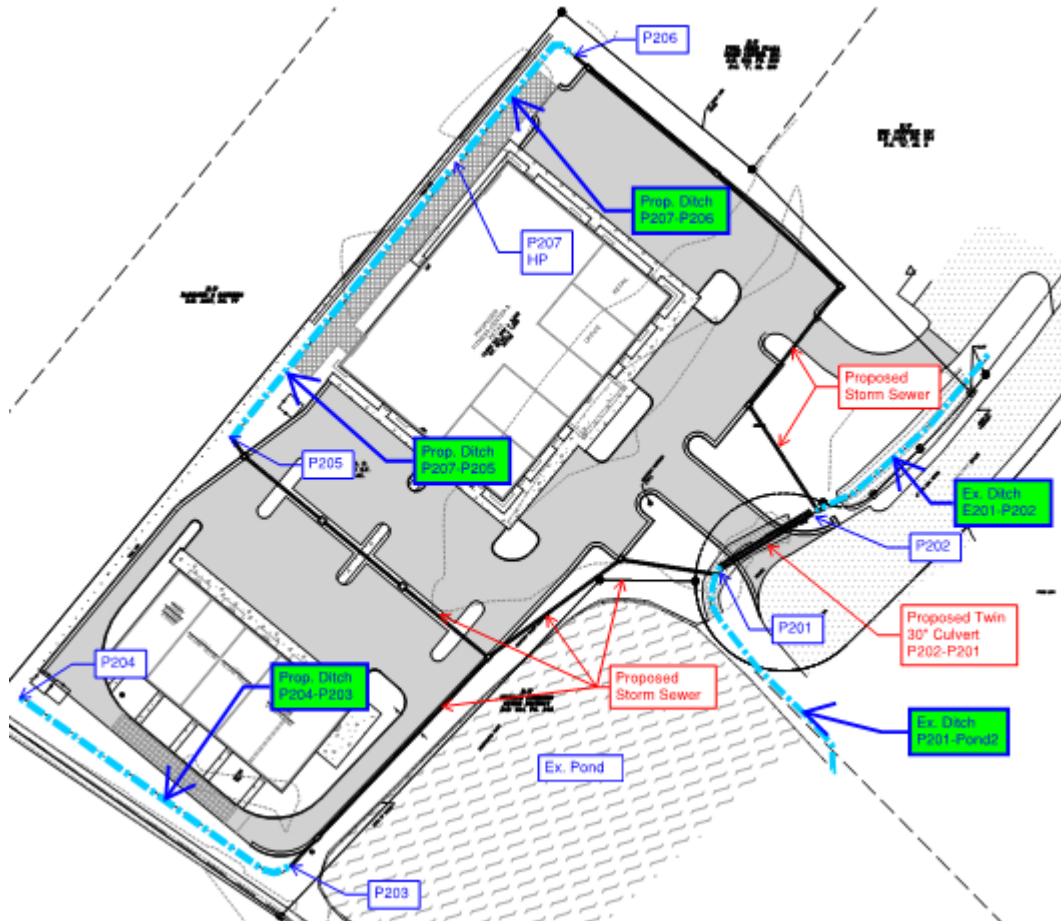
**Table 8.05d
Maximum Permissible
Velocities for Unprotected
Soils in Existing Channels.**

Materials	Maximum Permissible Velocities (fps)
Fine Sand (noncolloidal)	2.5
Sand Loam (noncolloidal)	2.5
Silt Loam (noncolloidal)	3.0
Ordinary Firm Loam	3.5
Fine Gravel	5.0
Stiff Clay (very colloidal)	5.0
Graded, Loam to Cobbles (noncolloidal)	5.0
Graded, Silt to Cobbles (colloidal)	5.5
Alluvial Silts (noncolloidal)	3.5
Alluvial Silts (colloidal)	5.0
Coarse Gravel (noncolloidal)	6.0
Cobbles and Shingles	5.5

**Table 8.05a
Maximum Allowable Design Velocities¹
for Vegetated Channels**

Typical Channel Slope Application	Soil Characteristics²	Grass Lining	Permissible Velocity³ for Established Grass Lining (ft/sec)
0-5%	Easily Erodible Non-plastic (Sands & Silts)	Bermudagrass	5.0
		Tall fescue	4.5
		Bahiagrass	4.5
		Kentucky bluegrass	4.5
		Grass-legume mixture	3.5
	Erosion Resistant Plastic (Clay mixes)	Bermudagrass	6.0
		Tall fescue	5.5
		Bahiagrass	5.5
		Kentucky bluegrass	5.5
		Grass-legume mixture	4.5

For our Velocity Checks, we will use a maximum velocity of 2.5 fps for bare earth (2yr storm check) and 4.5 fps for grass lined (10yr storm check)



Ditch Sections Adjacent to / Part of Proposed Development:

P201-Pond2	(Existing)
E201-P202	(Existing)
P204-P203	(Proposed)
P207-P205	(Proposed)
P207-P206	(Proposed)

Node & Link Results
Moyock Fitness
10/21/2025

2-yr Rainfall Results (Velocity must be less than 2.5 fps):

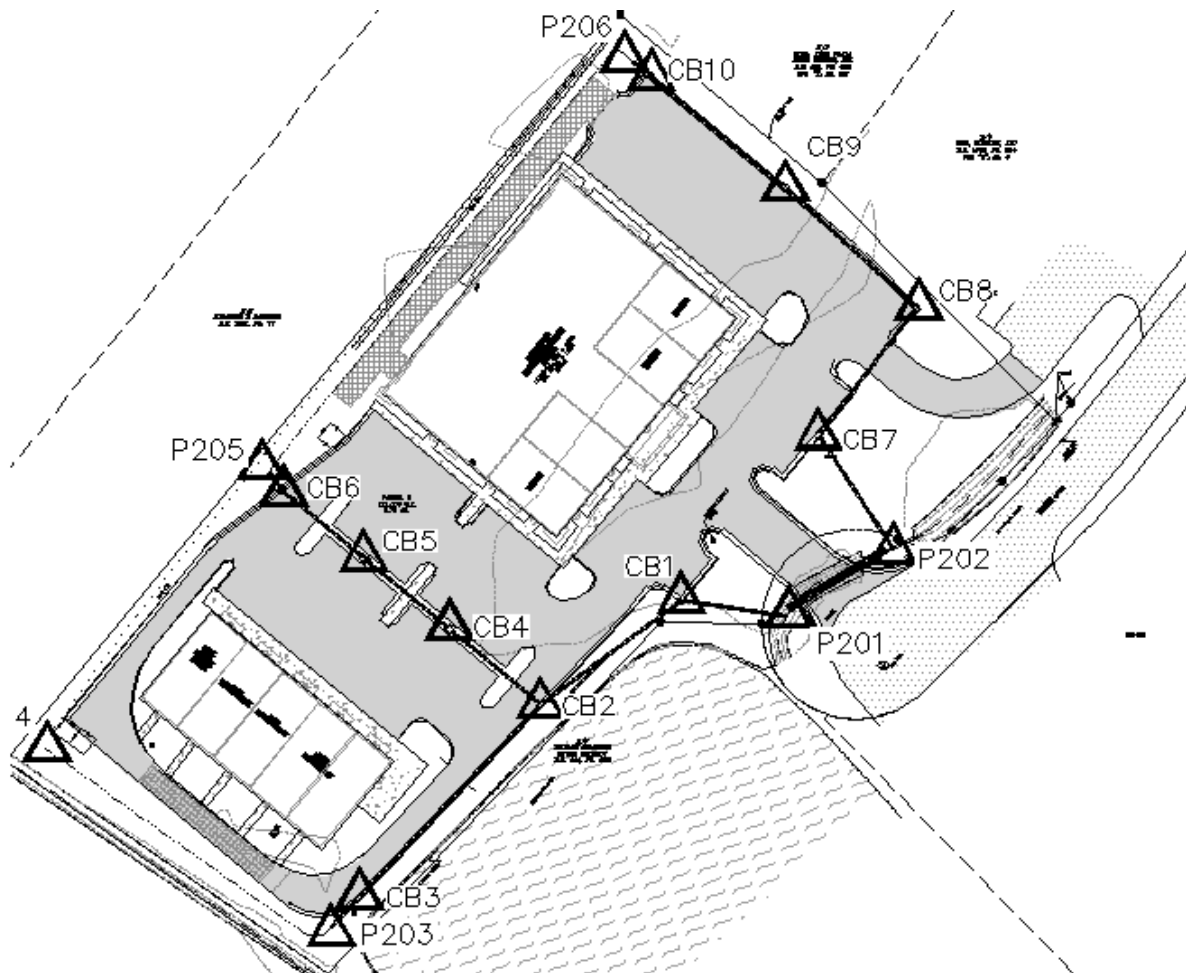
Link	2-yr Peak Flow (cfs)	2-yr Max Vel (fps)	Peak Velocity > 2.5 fps?
P201-Pond2	14.9	2.65	OK*
E201-P202	12.05	2.13	OK
P204-P203	0.61	0.81	OK
P207-P205	0.51	0.17	OK
P207-P206	0.45	0.14	OK

10-yr Rainfall Results (Velocity must be less than 4.5 fps):

Link	10-yr Peak Flow (cfs)	10-yr Max Vel (fps)	Peak Velocity > 4.5 fps?
P201-Pond2	25.67	3.04	OK
E201-P202	20.85	2.79	OK
P204-P203	0.97	0.79	OK
P207-P205	0.74	0.16	OK
P207-P206	0.83	0.17	OK

*Note: P201-Pond2 2-yr Velocity is 2.65 fps. However, this is an existing grassed ditch which is to remain undisturbed downstream of the P201 Rip-Rap Apron. Therefore, the 2.5 fps restriction for "Unprotected Channels" does not apply.

Peak HGL Check



Node HGL Check
Moyock Fitness
10/21/2025

10-yr Rainfall Results:

Node	10-yr Peak HGL (ft)	Top of Structure	Node Flooding?
P203	7.41	8.0	No
P204	7.62	8.0	No
P205	7.53	8.0	No
P206	7.53	8.0	No
P207	7.53	8.0	No
CB1	7.26	8.75	No
CB2	7.34	8.80	No
CB3	7.39	8.50	No
CB4	7.43	8.40	No
CB5	7.48	8.45	No
CB6	7.51	8.50	No
CB7	7.5	8.35	No
CB8	7.51	8.45	No
CB9	7.52	8.50	No
CB10	7.53	8.60	No

*Note: For P203 through P207, "Top of Structure" denotes Top
of Ditch / Top of Berm



Michael F. Easley, Governor

William G. Ross Jr., Secretary
North Carolina Department of Environment and Natural Resources

Coleen H. Sullins Director
Division of Water Quality

August 27, 2008

Moyock Commons Property Owners Association
Attn: Mr. Ron Rose
PO Box 456
Moyock, NC 27958

**Subject: Stormwater Permit No. SW7980425
Moyock Commons Shopping Center
High Density Stormwater Project
Currituck County**

Dear Mr. Rose:

The Washington Regional Office received a Stormwater Management Permit Renewal/Ownership Change request for the subject project, located off NC Highway 168 at Moyock, NC on June 12, 2008. Staff review of the plans and specifications has determined that the project, as proposed, will comply with the Stormwater Regulations set forth in Title 15A NCAC 2H.1000. We are forwarding Permit No. SW7980425 dated August 27, 2008, for the subject project.

This permit shall be effective from the date of issuance until August 27, 2018, and shall be subject to the conditions and limitations as specified therein. Please pay special attention to the Operation and Maintenance requirements in this permit and in the submitted application. Failure to establish an adequate system for operation and maintenance of the stormwater management system will result in future compliance problems.

If any parts, requirements, or limitations contained in this permit are unacceptable, you have the right to request an adjudicatory hearing upon written request within thirty (30) days following receipt of this permit. This request must be in the form of a written petition, conforming to Chapter 150B of the North Carolina General Statutes, and filed with the Office of Administrative Hearings, P.O. Drawer 27447, Raleigh, NC 27611-7447. Unless such demands are made this permit shall be final and binding.

If you have any questions, or need additional information concerning this matter, please contact either Bill Moore, or me at (252) 946-6481.

Sincerely,

Al Hodge
Regional Supervisor
Surface Water Protection Section

cc: ☒ Bissell Professional Group
Currituck County Building Inspections
Washington Regional Office
Central Files

STATE OF NORTH CAROLINA
DEPARTMENT OF ENVIRONMENT AND NATURAL RESOURCES
DIVISION OF WATER QUALITY

STATE STORMWATER MANAGEMENT PERMIT

HIGH DENSITY DEVELOPMENT

In accordance with the provisions of Article 21 of Chapter 143, General Statutes of North Carolina as amended, and other applicable Laws, Rules, and Regulations

PERMISSION IS HEREBY GRANTED TO

Moyock Commons Property Owners Association

Moyock Commons Shopping Center

Currituck County

FOR THE

construction, operation and maintenance of a wet detention basin in compliance with the provisions of 15A NCAC 2H .1000 (hereafter referred to as the "*stormwater rules*") and the approved stormwater management plans and specifications and other supporting data as attached and on file with and approved by the Division of Water Quality and considered a part of this permit.

This permit shall be effective from the date of issuance until August 27, 2018, and shall be subject to the following specified conditions and limitations:

I. DESIGN STANDARDS

1. This permit is effective only with respect to the nature and volume of stormwater described in the application and other supporting data.
2. This stormwater system has been approved for the management of stormwater runoff as described in Section I.6 on page 3 of this permit. The stormwater controls have been designed to handle the runoff from 10.05 acres of impervious area.
3. All stormwater collection and treatment systems must be located in either dedicated common areas or recorded easements. The final plats for the project will be recorded showing all such required easements, in accordance with the approved plans and permit.
4. The tract will be limited to the amount of built-upon area indicated on page 3 of this permit, and per approved plans.
5. The runoff from all built-upon area within the permitted drainage areas of this project must be directed into the permitted stormwater control system.

6. The following design criteria have been provided in the wet detention basin and must be maintained at design condition:

a.	Drainage Area:	17.90 acres
b.	Total Impervious Surfaces:	10.05 acres
c.	Design Storm:	1.0 - inch
d.	Pond Depth:	6.30 ft
e.	TSS removal efficiency:	85 %
f.	Permanent Pool Elevation, FMSL:	6.30 ft
g.	Permanent Pool Surface Area Required:	24,712 sf
h.	Permanent Pool Surface Area Provided:	34,850 sf
i.	Permanent Storage Volume Required:	48,512 cf
j.	Permanent Storage Volume Provided:	52,517 cf
k.	Temporary Storage Elevation, FMSL:	7.75 ft
l.	Small Diameter Controlling Orifice:	2.50 - inch pipe
m.	Receiving Stream/River Basin:	UT-Northwest River/Pasquotank
n.	Classification of Water Body:	SC

II. SCHEDULE OF COMPLIANCE

1. 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.
2. During construction, erosion shall be kept to a minimum and any eroded areas of the system will be repaired immediately.
3. 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 Plans must be followed in its entirety and maintenance must occur at the scheduled intervals including, but not limited to:
 - a. Semiannual scheduled inspections (every 6 months).
 - b. Sediment removal.
 - c. Mowing and revegetation of slopes and the vegetated filter.
 - d. Immediate repair of eroded areas.
 - e. Maintenance of all slopes in accordance with approved plans and specifications.
 - f. Debris removal and unclogging of bypass structure, filter media, flow spreader, catch basins, piping and vegetated filter.
 - g. A clear access path to the bypass structure must be available at all times.

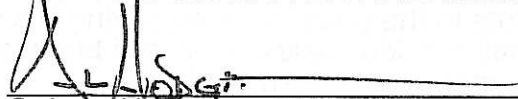
4. Records of maintenance activities must be kept and made available upon request to authorized personnel of DWQ. The records will indicate the date, activity, name of person performing the work and what actions were taken.
5. The facilities shall be constructed as shown on the approved plans. This permit shall become voidable unless the facilities are constructed in accordance with the conditions of this permit, the approved plans and specifications, and other supporting data.
6. Upon completion of construction, prior to issuance of a Certificate of Occupancy, and prior to operation of this permitted facility, a certification must be received from an appropriate designer for the system installed certifying that the permitted facility has been installed in accordance with this permit, the approved plans and specifications, and other supporting documentation. Any deviations from the approved plans and specifications must be noted on the Certification. A modification may be required for those deviations.
7. 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 occupancy of the facility.
8. Access to the stormwater facilities shall be maintained via appropriate easements at all times.
9. The permittee shall submit to the Director and shall have received approval for revised plans, specifications, and calculations 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. Project name change.
 - c. Transfer of ownership.
 - d. Redesign or addition to the approved amount of built-upon area or to the drainage area.
 - e. Further subdivision, acquisition, lease or sale of all or part of the project area. The project area is defined as all property owned by the permittee, for which Sedimentation and Erosion Control Plan approval or a CAMA Major permit was sought.
 - f. Filling in, altering, or piping of any vegetative conveyance shown on the approved plan.
10. The permittee shall submit final site layout and grading plans for any permitted future areas shown on the approved plans, prior to construction.
11. A copy of the approved plans and specifications shall be maintained on file by the Permittee at all times.
12. The Director 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 Director for modifying the site to meet minimum requirements. The permittee shall provide copies of revised plans and certification in writing to the Director that the changes have been made.
13. This permit shall be effective from the date of issuance until August 27, 2008. Application for permit renewal shall be submitted 180 days prior to the expiration date of this permit and must be accompanied by the processing fee.

III. GENERAL CONDITIONS

1. This permit is not transferable except after notice to and approval by the Director. In the event of a change of ownership, or a name change, the permittee must submit a formal permit transfer request to the Division of Water Quality, accompanied by a completed name/ownership change form, documentation from the parties involved, and other supporting materials as may be appropriate. The approval of this request will be considered on its merits and may or may not be approved. The permittee is responsible for compliance with all permit conditions until such time as the Division approves the transfer request.
2. Failure to abide by the conditions and limitations contained in this permit may subject the Permittee to enforcement action by the Division of Water Quality, in accordance with North Carolina General Statute 143-215.6A to 143-215.6C.
3. 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.
4. 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 this Division, such as the construction of additional or replacement stormwater management systems.
5. The permittee grants DENR Staff permission to enter the property during normal business hours for the purpose of inspecting all components of the permitted stormwater management facility.
6. The permit may be modified, revoked and reissued or terminated for cause. The filing of a request for a permit modification, revocation and reissuance or termination does not stay any permit condition.
7. Unless specified elsewhere, permanent seeding requirements for the stormwater control must follow the guidelines established in the North Carolina Erosion and Sediment Control Planning and Design Manual.
8. Approved plans and specifications for this project are incorporated by reference and are enforceable parts of the permit. A copy of the approved plans and specifications shall be maintained on file by the Permittee for the life of the project.
9. The permittee shall notify the Division of any name, ownership or mailing address changes within 30 days.

Permit issued this the 27 th day of August, 2008.

NORTH CAROLINA ENVIRONMENTAL MANAGEMENT COMMISSION



for

Coleen H. Sullins, Director

Division of Water Quality

By Authority of the Environmental Management Commission

Permit Number SW7980425

WET DETENTION BASIN OPERATION AND MAINTENANCE AGREEMENT

Maintenance activities shall be performed as follows:

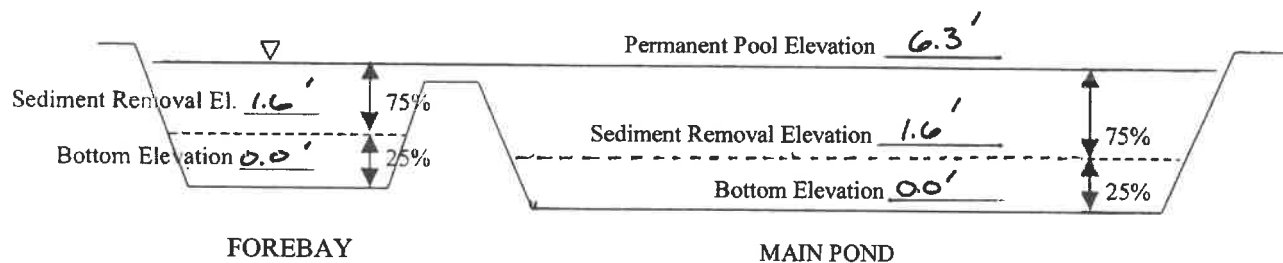
1. After every significant runoff producing rainfall event and at least monthly:
 - a. Inspect the wet detention basin system for sediment accumulation, erosion, trash accumulation, vegetated cover, and general condition.
 - b. Check and clear the orifice of any obstructions such that drawdown of the temporary pool occurs within 2 to 5 days as designed.
2. Repair eroded areas immediately, re-seed as necessary to maintain good vegetative cover, mow vegetative cover to maintain a maximum height of six inches, and remove trash as needed.
3. Inspect and repair the collection system (i.e. catch basins, piping, swales, riprap, etc.) quarterly to maintain proper functioning.
4. Remove accumulated sediment from the wet detention basin system semi-annually or when depth is reduced to 75% of the original design depth (see diagram below). Removed sediment shall be disposed of in an appropriate manner and shall be handled in a manner that will not adversely impact water quality (i.e. stockpiling near a wet detention basin or stream, etc.).

The measuring device used to determine the sediment elevation shall be such that it will give an accurate depth reading and not readily penetrate into accumulated sediments.

When the permanent pool depth reads 4.7 feet in the main pond, the sediment shall be removed.

When the permanent pool depth reads 4.7 feet in the forebay, the sediment shall be removed.

BASIN DIAGRAM
(fill in the blanks)



5. Remove cattails and other indigenous wetland plants when they cover 50% of the basin surface. These plants shall be encouraged to grow along the vegetated shelf and forebay berm.
6. If the basin must be drained for an emergency or to perform maintenance, the flushing of sediment through the emergency drain shall be minimized to the maximum extent practical.

7. All components of the wet detention basin system shall be maintained in good working order.
8. Remove all trees and heavy woody vegetation from the basins and dike walls.

I acknowledge and agree by my signature below that I am responsible for the performance of the seven maintenance procedures listed above. I agree to notify DWQ of any problems with the system or prior to any changes to the system or responsible party.

Print Name: Ron Rose

Title: President Moyock Commons Property Owners Association Inc.

Address: P.O. Box 456 Moyock, NC 27958

Phone: (252) 435-2652

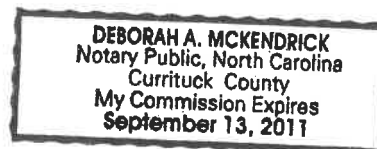
Signature: Ron Rose

Date: 4/11/08

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, Deborah A. Mckendrick, a Notary Public for the State of North Carolina,
County of Currituck, do hereby certify that Ron Rose
personally appeared before me this 15th day of April, 2008 and acknowledge the due
execution of the forgoing wet detention basin maintenance requirements. Witness my hand and official seal,

Deborah A. Mckendrick



Seal

My commission expires 9-13-2011

MOYOCK COMMONS SHOPPING CENTER

Currituck County

PARTIAL
Designer's Certification

I, DAVID M. RYAN, as a duly registered PROFESSIONAL ENGINEER in the state of North Carolina, having been authorized to observe (periodically/weekly/fulltime) the construction of the project,

MOYOCK COMMONS SHOPPING CENTER

(Project)

for COMMERCIAL PROPERTIES, INC. (Project Owner) hereby state that, to the best of my abilities, due care and diligence was used in the observation of the project construction such that the construction was observed to be built within substantial compliance and intent of the approved plans and specifications.

The checklist of items on page 2 of this form is included in the Certification.

Noted deviations from approved plans and specification:

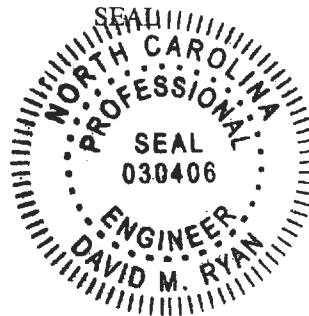
- Parcel "B" has been recombined with an adjoining parcel located outside the Moyock Commons project in conjunction with the development of the Taylor Do-It Center project. Developmental coverages located on this adjoining parcel, along with a portion of the coverages located within the Moyock Commons parcel "B", are now serviced by a separate wet-detention basin permitted under NCDENR stormwater management permit # SW7041016, dated 5-15-05. Runoff from the balance of the development on parcel "B" still drains to Park Dr. and ultimately to the Moyock Commons wet-detention basin.
- This certification is partial based upon the fact that Parcels C & D have not yet been developed.

Signature

Registration Number

Date

David M. Ryan
NC 030406
JUNE 10, 2008



Certification Requirements:

State Stormwater Management Systems
SW980425

- DMR1. The drainage area to the system contains approximately the permitted acreage.
- DMR2. The drainage area to the system contains no more than the permitted amount of built-upon area.
- DMR3. All the built-upon area associated with the project is graded such that the runoff drains to the system.
- DMR4. All roof drains are located such that the runoff is directed into the system.
- DMR5. The outlet/bypass structure elevations are per the approved plan.
- DMR6. The outlet structure is located per the approved plans.
- DMR7. Trash rack is provided on the outlet/bypass structure.
- DMR8. All slopes are grassed with permanent vegetation.
- DMR9. Vegetated slopes are no steeper than 3:1.
- DMR10. The inlets are located per the approved plans and do not cause short-circuiting of the system.
- DMR11. The permitted amounts of surface area and/or volume have been provided.
- DMR12. Required drawdown devices are correctly sized per the approved plans.
- DMR13. All required design depths are provided.
- DMR14. All required parts of the system are provided, such as vegetated shelf, and a forebay.
- DMR15. The required system dimensions are provided per the approved plans.

Cc: NCDENR-DWQ Regional Office
Currituck County Building Inspections



Currituck County Mainland Water Capacity Availability Form

County Contact Information

Will Rumsey, Utilities Manager
444 Maple Road
Maple, NC 27956

Phone: 252.232.2769
Fax: 252.453.3721

Website: <https://co.currituck.nc.us/departments/water/>

Request

This request is for:

- ☐ Single Family Residence
- ☐ Residential Development
- ☒ Non-residential

Owner Information

Name(s): 104 Lark, LLC

Mailing Address: 134 Moyock Landing Dr., Moyock, NC 27958

E-Mail Address: ryancavanaugh00@gmail.com

Phone Number: (757) 647-3836

Applicant Information (if different from Owner)

Name(s): Same

Mailing Address:

E-Mail Address:

Phone Number:

Parcel Information

PIN(s): 0015-000-0751-0000

Street Address: 104 Lark Drive, Moyock, NC 27958

Project Information

Name of Project: Moyock Commons Commercial Complex

Number of Units: Up to 16

Projected Daily Project Demand (gpd): 12,650

Anticipated Water Access Date: 2026

Applicant's Signature

I declare, that to the best of my knowledge, the information provided herein is true, correct, and complete.


Property Owner/Applicant Signature

11/13/25
Date

Note: Water connection and/or developmental fees are due at building permit application. See the Currituck County Master Fee Schedule for rates.

<https://co.currituck.nc.us/master-fee-schedule/>

For Office Use Only

☐ Water capacity is available for this project.

☐ Water capacity is not available for this project.

Utilities Manager

Date

County Manager

Date

This capacity availability is valid for one year from approval date.



Major Stormwater Plan Form SW-002

OFFICIAL USE ONLY:

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

Contact Information**APPLICANT:**

Name: 104 Lark, LLC
Address: 134 Moyock Landing Dr.
Moyock, NC 27958
Telephone: (757) 647-3836
E-Mail Address: ryancavanaugh00@gmail.com

PROPERTY OWNER:

Name: 104 Lark, LLC
Address: 134 Moyock Landing Dr.
Moyock, NC 27958
Telephone: (757) 647-3836
E-Mail Address: ryancavanaugh00@gmail.com

Property Information

Physical Street Address: 104 Lark Drive, Moyock, NC 27958
Parcel Identification Number(s): 0015-000-0751-0000
FEMA Flood Zone Designation: X

Request

Project Description: Mixed Use Commercial
Total land disturbance activity: 124,094 SF sf Calculated volume of BMPs: Existing sf
Maximum lot coverage: 78,870 sf Proposed lot coverage: 78,802 sf

TYPE OF REQUEST

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

THIS PROJECT IS LOCATED WITHIN THE MOYOCK COMMONS SHOPPING CENTER AND IS SERVED BY AN EXISTING BMP DESIGNED AND PERMITTED BY NCDEQ, SW7980425. EPA SWMM WAS UTILIZED TO DESIGN THE PROJECT'S STORMWATER CONVEYANCE SYSTEM AND CONFIRM HGL'S AND FLOW VELOCITIES.

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.

[Signature] (MM)
Applicant
[Signature] (MM)
Property Owner(s)

11/13/25
Date
11/13/25
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: Moyock Commons Commercial Complex

Applicant/Property Owner: 104 Lark, LLC

Minor Stormwater Plan Design Standards Checklist		
General		
1	Property owner name and address.	<input checked="" type="checkbox"/>
2	Site address and parcel identification number.	<input checked="" type="checkbox"/>
3	North arrow and scale to be 1" = 100' or larger.	<input checked="" type="checkbox"/>
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.	<input checked="" type="checkbox"/>
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.	N/A
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.	<input checked="" type="checkbox"/>
8	Limits of all proposed fill, including the toe of fill slope and purpose of fill.	<input checked="" type="checkbox"/>
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.	<input checked="" type="checkbox"/>
10	Existing and proposed drainage patterns, including direction of flow.	<input checked="" type="checkbox"/>
11	Location, capacity, design plans (detention, retention, infiltration), and design discharge of existing and proposed stormwater management features.	<input checked="" type="checkbox"/>
12	Elevation of the seasonal high water level as determined by a licensed soil scientist.	N/A
13	Plant selection.	N/A
Permits and Other Documentation		
14	NCDENR stormwater permit application (if 10,000sf or more of built upon area).	<input checked="" type="checkbox"/>
15	NCDENR erosion and sedimentation control permit application (if one acre or more of land disturbance).	<input checked="" type="checkbox"/>
16	NCDENR coastal area management act permit application, if applicable.	N/A
17	Stormwater management narrative with supporting calculations.	<input checked="" type="checkbox"/>
18	Rational Method Form SW-003 or NRCS Method Form SW-004	N/A
19	Alternative stormwater runoff storage analysis and/or downstream drainage capacity analysis, if applicable	N/A
20	Design spreadsheets for all BMPs (Appendix F – Currituck County Stormwater Manual).	N/A
21	Detailed maintenance plan for all proposed BMPs.	N/A

Certificate	
22	<p>The major stormwater plan shall contain the following certificate:</p> <p>I, _____, owner/agent hereby certify the information included on this and attached pages is true and correct to the best of my knowledge.</p> <p>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.</p> <p>Date: _____ Owner/Agent: _____</p>



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	<input type="checkbox"/>
2	Completed Rational Method Form SW-003 or NRCS Method Form SW-004	<input type="checkbox"/>
3	Stormwater plan	<input type="checkbox"/>
4	NC DENR permit applications, if applicable	<input type="checkbox"/>

Comments

**FINANCIAL RESPONSIBILITY/OWNERSHIP FORM
SEDIMENTATION POLLUTION CONTROL ACT**

No person may initiate any land-disturbing activity on one or more acres as covered by the Act before this form and an acceptable erosion and sedimentation control plan have been completed and approved by the Land Quality Section, N.C. Department of Environmental Quality. Submit the completed form to the appropriate Regional Office. (Please type or print and, if the question is not applicable or the e-mail address or phone number is unavailable, place N/A in the blank.)

Part A.

1. Project Name Moyock Commons Commercial Complex
2. Location of land-disturbing activity: County Currituck City or Township Moyock
Highway/Street 104 Lark Drive Latitude(decimal degrees) 36.5179 Longitude(decimal degrees) -76.1734
3. Approximate date land-disturbing activity will commence: December 15 2025
4. Purpose of development (residential, commercial, industrial, institutional, etc.): Commercial
5. Total acreage disturbed or uncovered (including off-site borrow and waste areas): 2.86
6. Amount of fee enclosed: \$ 357.00. The application fee of \$119.00 per acre (rounded up to the next acre) is assessed without a ceiling amount (Example: 8.10-acre application fee is \$1,071). Checks should be addressed to NCDEQ.
7. Has an erosion and sediment control plan been filed? Yes ☐ Enclosed ☒ No ☐
8. Person to contact should erosion and sediment control issues arise during land-disturbing activity:
Name Ryan Cavanaugh E-mail Address ryancavanaugh00@gmail.com
Phone: Office # _____ Mobile # 757-647-3836
9. Landowner(s) of Record (attach accompanied page to list additional owners):

<u>104 Lark, LLC</u>	<u>757-647-3836</u>
Name	Phone: Office # Mobile #
<u>134 Moyock Landing Drive</u>	<u>134 Moyock Landing Drive</u>
Current Mailing Address	Current Street Address
<u>Moyock NC 27958</u>	<u>Moyock NC 27958</u>
City State Zip	City State Zip
10. Deed Book No. 1572 Page No. 412 Provide a copy of the most current deed.

Part B.

1. Company(ies) who are financially responsible for the land-disturbing activity (Provide a comprehensive list of all responsible parties on accompanied page.) *If the company is a sole proprietorship or if the landowner(s) is an individual(s), the name(s) of the owner(s) may be listed as the financially responsible party(ies).*

104 Lark, LLC

Company Name

134 Moyock Landing Drive

Current Mailing Address

Moyock NC 27958

City State Zip

Phone: Office # _____

ryancavanaugh00@gmail.com

E-mail Address

134 Moyock Landing Drive

Current Street Address

Moyock NC 27958

City State Zip

Mobile # 757-647-3836

Note: If the Financially Responsible Party is not the owner of the land to be disturbed, include with this form the landowner's signed and dated written consent for the applicant to submit a draft erosion and sedimentation control plan and to conduct the anticipated land disturbing activity.

2. (a) If the Financially Responsible Party is a domestic company registered on the NC Secretary of State business registry, give name and street address of the Registered Agent:

Ryan J. Cavanaugh

Name of Registered Agent

134 Moyock Landing Drive

Current Mailing Address

Moyock NC 27958

City State Zip

Phone: Office # _____

E-mail Address

134 Moyock Landing Drive

Current Street Address

Moyock NC 27958

City State Zip

Mobile # 757-647-3836

Name of Individual to Contact (if Registered Agent is a company)

(b) If the Financially Responsible Party is not a resident of North Carolina, give name and street address of the designated North Carolina agent who is registered on the NC Secretary of State business registry:

Name of Registered Agent

E-mail Address

Current Mailing Address

Current Street Address

City State Zip

City State Zip

Phone: Office # _____

Mobile # _____

Name of Individual to Contact (if Registered Agent is a company)

(c) If the Financially Responsible Party is engaging in business under an assumed name, give name under which the company is Doing Business As. If the Financially Responsible Party is an individual, General Partnership, or other company not registered and doing business under an assumed name, **attach a copy of the Certificate of Assumed Name.**

N/A

Company DBA Name

The above information is true and correct to the best of my knowledge and belief and was provided by me under oath. (This form must be signed by the Financially Responsible Person if an individual(s) or his attorney-in-fact, or if not an individual, by an officer, director, partner, or registered agent with the authority to execute instruments for the Financially Responsible Party). I agree to provide corrected information should there be any change in the information provided herein.

Ryan J. Cavanaugh

Type or print name

Registered Agent, Manager

Title or Authority

[Signature]

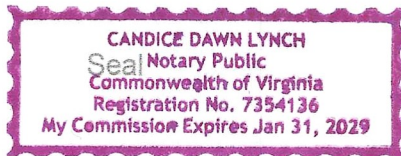
Signature

11/13/25

Date

I, Candice Dawn Lynch, a Notary Public of the County of Chesapeake
Virginia
State of ~~North Carolina~~, hereby certify that Ryan J. Cavanaugh appeared personally
before me this day and being duly sworn acknowledged that the above form was executed by him/her.

Witness my hand and notarial seal, this 13 day of November, 2025



[Signature]
Notary

My commission expires Jan 31, 2029

Continued from Items 9 & 10 in Part A of the Financial Responsibility/Ownership Form for multiple owners. Attach copies of this page as needed to list all landowners.

Landowner 2 of Record:

Currituck County

252-232-2075

Name

Phone: Office #

Mobile #

153 Courthouse Road

153 Courthouse Road

Current Mailing Address

Current Street Address

Currituck NC 27929

Currituck NC 27929

City

State

Zip

City

State

Zip

Deed Book No. 614 Page No. 203 Provide a copy of the most current deed.

Landowner 3 of Record:

Name

Phone: Office #

Mobile #

Current Mailing Address

Current Street Address

City

State

Zip

City

State

Zip

Deed Book No. _____ Page No. _____ Provide a copy of the most current deed.

Landowner 4 of Record:

Name

Phone: Office #

Mobile #

Current Mailing Address

Current Street Address

City

State

Zip

City

State

Zip

Deed Book No. _____ Page No. _____ Provide a copy of the most current deed.

Landowner 5 of Record:

Name

Phone: Office #

Mobile #

Current Mailing Address

Current Street Address

City

State

Zip

City

State

Zip

Deed Book No. _____ Page No. _____ Provide a copy of the most current deed.

Landowner–Financially Responsible Party Consent:

This letter is to serve as written documentation of landowner consent pursuant to G.S. 113A-54.1(a) for the submittal of an erosion and sediment control plan approval application where the financially responsible party is not the owner of the land where the proposed land disturbing activity is to occur.

Landowner of Record Name: Currituck County

Property Tax ID#/PIN: 0015-000-075J-0000

Property Address Line 1: 104 Moyock Commons Drive

Property Address Line 2: _____

City/State/Zip Code: Moyock, NC 27958

Primary Applicant submitting plan – This must match the party accepting financial responsibility named as the Primary Applicant in Step 2 of the online Erosion and Sediment Control Plan Application (Financial Responsibility/Ownership Form): _____

104 Lark, LLC

Statement of Landowner Consent: In accordance with §113A-54.1(a), I hereby declare that I am the owner of legally authorized representative of the owner of the property described above and provide my consent for the primary applicant cited above and in Step 2 of the Erosion and Sediment Control Plan Application to submit a draft erosion control plan to the State of North Carolina and to conduct the proposed land-disturbing activities on the property listed above.

Rebecca L. Gay
Landowner: Type or Print Name

County Manager
Title or Authority

Rebecca L. Gay
Landowner Signature

11/17/2025
Date

rebecca.gay@currituckcounty-nc.gov
Landowner Email

252-232-2075
Phone



November 18, 2025

Mr. Robert Tankard, Assistant Regional Supervisor
NCDEQ, Division of Water Resources
943 Washington Square Mall
Washington, NC 27889

RE: Fast Track Sewer System Extension Application for Moyock Commons Commercial Complex,
Currituck County, NC.

Dear Robert,

We are submitting (1) printed and (1) digital copy of an application and supporting documents for a proposed fast-track sewer system extension to serve a new commercial development located within the Moyock Commons Sewer District (WQ0015053) in Moyock, NC. The proposed development includes up to (16) units divided between (2) commercial buildings with a total floor area of 25,500 sf. Uses include a possible mix of retail space, office space, restaurant space and a gymnasium. The property address is 104 Lark Drive as shown on the enclosed site map.

The following items are included with this cover letter:

1. Application fee in the amount of \$634.00 (checklist item C).
2. Fast Track Form FTA 07-25 (checklist item D).
3. Flow Tracking/Acceptance form FTSE 03-25 from Currituck County (checklist item F).
4. 11 x 17-inch aerial site map showing the project area & details (checklist item G).

The collection system will connect to an existing gravity sewer main that runs past the site, which is served by the Moyock Commons lift station and WWTP. We are requesting construction approval for this fast-track sewer system extension application, with a flow allocation of 12,650 GPD. Please let us know if additional information is needed in order to authorize this construction.

Sincerely yours,

BISSELL PROFESSIONAL GROUP



David M. Klebitz, P.E.

Cc: Mr. Will Rumsey, Moyock Commons Sewer District c/o Currituck County

JOSH STEIN
Governor

D. REID WILSON
Secretary

RICHARD E. ROGERS, JR.
Director



**FAST TRACK SEWER SYSTEM EXTENSION APPLICATION
FTA 07-25 & SUPPORTING DOCUMENTATION**

Application Number: _____ (to be completed by DWR)

All items must be completed with all applicable information, or the application will be returned

DO NOT SEND ENGINEERING PLANS UNLESS REQUESTED

I. APPLICANT INFORMATION:

1. Applicant's name: Moyock Commons Sewer District (company, municipality, HOA, utility, etc.)
2. Applicant type: ☐ Individual ☐ Corporation ☐ General Partnership ☐ Privately-Owned Public Utility
☐ Federal ☒ State/County ☐ Municipal ☐ Other
3. Signature authority's name: Rebecca Gay per 15A NCAC 02T .0106(b) Title: County Manager
4. Applicant's mailing address: _____ City: _____ State: _____ Zip: _____-____
5. Applicant's contact information: Phone number: (____) ____-____ Email Address: _____

II. PROJECT INFORMATION:

1. Project name: Moyock Commons Commercial Complex
2. Application/Project status: ☒ Proposed (New Permit) ☐ Existing Permit/Project ☐ ARPA funded ☐ S.L. 2023-134 funded
3. If a modification, provide the existing permit number: WQ00_____ and issued date: _____,

For modifications, also attach a detailed narrative description and copy of original permit as described in Item G of the checklist.

If new construction, but part of a master plan, provide the existing permit number: WQ00_____

If ARPA or S.L. 2023-134 funded, provide the project number: _____

4. County where project is located: Currituck
5. Approximate Coordinates (Decimal Degrees): Latitude: 36.51803° Longitude: -76.17347°
6. Parcel ID (if applicable): 0015-000-075I-0000 (or Parcel ID to closest downstream sewer)

III. CONSULTANT INFORMATION:

1. Professional Engineer: David M Klebitz License Number: 042639 Firm: Bissell Professional Group
Mailing address: P.O Box 1068 City: Kitty Hawk State: NC Zip: 27949-____
Phone number: (252) 261-3266 Email Address: davek@bissellprofessionalgroup.com

IV. WASTEWATER TREATMENT FACILITY (WWTF) INFORMATION:

1. Facility Name: Moyock Commons WWTP Permit Number: WQ0015053
Owner Name: Moyock Commons Sewer District

V. RECEIVING DOWNSTREAM SEWER INFORMATION:

1. Permit Number(s): WQ0015053
 2. Downstream (Receiving) Sewer Information: 8 inch ☒ Gravity ☐ Force Main
 3. System Wide Collection System Permit Number(s) (if applicable): WQCS_____
- Owner Name(s): _____

VI. GENERAL REQUIREMENTS

1. If the Applicant is a Privately-Owned Public Utility, has a Certificate of Public Convenience and Necessity been attached?
☐ Yes ☐ No ☒ N/A
2. If the Applicant is a Developer of lots to be sold, has a [Developer's Operational Agreement \(FORM: DEV\)](#) been attached?
☐ Yes ☐ No ☒ N/A
3. If the Applicant is a Home/Property Owners' Association, has an [HOA/POA Operational Agreement \(FORM: HOA\)](#) and supplementary documentation as required by 15A NCAC 02T.0115(c) been attached?
☐ Yes ☐ No ☒ N/A
4. Origin of wastewater: (check all that apply):

<input type="checkbox"/> Residential (Individually Owned)	<input checked="" type="checkbox"/> Retail (stores, centers, malls)	<input type="checkbox"/> Car Wash
<input type="checkbox"/> Residential (Leased)	<input checked="" type="checkbox"/> Retail with food preparation/service	<input type="checkbox"/> Hotel and/or Motels
<input type="checkbox"/> School / preschool / day care	<input type="checkbox"/> Medical / dental / veterinary facilities	<input type="checkbox"/> Swimming Pool/Clubhouse
<input checked="" type="checkbox"/> Food and drink facilities	<input type="checkbox"/> Church	<input type="checkbox"/> Swimming Pool/Filter Backwash
<input checked="" type="checkbox"/> Businesses / offices / factories	<input type="checkbox"/> Nursing Home	<input checked="" type="checkbox"/> Other (Explain in Attachment)
5. Nature of wastewater : _____% Domestic 100 % Commercial _____ % Industrial ([See 15A NCAC 02T .0103\(20\)](#))
If Industrial, is there a Pretreatment Program in effect? ☐ Yes ☐ No
6. Has a flow reduction been approved under [15A NCAC 02T .0114\(f\)](#)? ☐ Yes ☒ No
➤ **If yes, provide a copy of flow reduction approval letter with this application**
7. Summarize wastewater generated by project (per [15A NCAC 02T .0114](#) and G.S. 143-215.1):

Establishment Type (see 02T.0114(f))	Daily Design Flow ^{a,b}	No. of Units	Flow
Eating Establishment - Full Service	40 gal/Seat	120	4,800 GPD
Eating Establishment - Single Service	20 gal/Seat	20	400 GPD
Fitness Center	50 gal/100 sf	13,500	6,750 GPD
Retail Sales	100 gal/1,000 sf	6,000	600 GPD
Office Space	25 gal/empty	4	100 GPD
	gal/		GPD
		<i>Total</i>	12,650 GPD

- Do not include future flows or previously permitted allocations
- a See [15A NCAC 02T .0114\(b\), \(d\), \(e\)\(1\) and \(e\)\(2\)](#) for caveats to wastewater design flow rates (i.e. proposed unknown non-residential development uses; public access facilities located near high public use areas; and residential property located south or east of the Atlantic Intracoastal Waterway to be used as vacation rentals as defined in [G.S. 42A-4](#)).
 - b Per 15A NCAC 02T .0114(c), design flow rates for establishments not identified [in table [15A NCAC 02T.0114](#)] shall be determined using available flow data, water using fixtures, occupancy or operation patterns, and other measured data.

If permitted flow is zero, please indicate why:

- ☐ Pump Station/Force Main or Gravity Sewer where flow will be permitted in subsequent permits that connect to this line. Please provide supplementary information indicating the approximate timeframe for permitting upstream sewers with flow.
- ☐ Flow has already been allocated in Permit Number: _____ Issuance Date: _____
- ☐ Rehabilitation or replacement of existing sewers with no new flow expected
- ☐ Other (Explain): _____

A Flow Tracking/Acceptance Form is still required for scenarios where the permitted flow is zero to assure downstream capacity for future flow. For any cases that may arise where the permitted flow is zero, please contact your Regional Office for further instruction prior to submittal of the application to minimize delay of review and approval.

VII. GRAVITY SEWER DESIGN CRITERIA (If Applicable) - [02T .0305](#) & [MDC \(Gravity Sewers\)](#):

1. Summarize gravity sewer to be permitted:

Size (inches)	Length (feet)	Material
6	249	PVC SDR35
8	179	PVC SDR35

- Section II & III of the MDC for Permitting of Gravity Sewers contains information related to design criteria
- Section III contains information related to minimum slopes for gravity sewer(s)
- **Oversizing lines to meet minimum slope requirements is not allowed and a violation of the MDC**

VIII. PUMP STATION DESIGN CRITERIA (If Applicable) - [02T .0305](#) & [MDC \(Pump Stations/Force Mains\)](#):

PROVIDE A SEPARATE COPY OF THIS PAGE FOR EACH ADDITIONAL PUMP STATION INCLUDED IN THIS PROJECT

1. Pump station number or name: _____
2. Approximate Coordinates (Decimal Degrees): Latitude: ____° Longitude: - ____°
3. Total number of pumps at the pump station: _____
4. Design flow of the pump station: _____ millions gallons per day (firm capacity)
 - This should reflect the total GPM for the pump station with the largest pump out of service.
5. Operational point(s) per pump(s): _____ gallons per minute (GPM) at _____ feet total dynamic head (TDH)
6. Summarize the force main to be permitted (for this Pump Station):

Size (inches)	Length (feet)	Material

If any portion of the force main is less than 4-inches in diameter, please identify the method of solids reduction per MDCPSFM Section 2.01C.1.b. ☐ Grinder Pump ☐ Mechanical Bar Screen ☐ Other (please specify) _____

7. Power reliability in accordance with [15A NCAC 02T .0305\(h\)\(1\)](#):

☐ Standby power source or ☐ Standby pump

- Must have automatic activation and telemetry - [15A NCAC 02T.0305\(h\)\(1\)\(B\)](#):
- Required for all pump stations with an average daily flow greater than or equal to 15,000 gallons per day
- **Must be permanent to facility** and may not be portable

Or if the pump station has an average daily flow less than 15,000 gallons per day [15A NCAC 02T.0305\(h\)\(1\)\(C\)](#):

☐ Portable power source with manual activation, quick-connection receptacle and telemetry -

or

☐ Portable pumping unit with plugged emergency pump connection and telemetry:

- Include documentation that the portable source is owned or contracted by the applicant and is compatible with the station.
- If the portable power source or pump is dedicated to multiple pump stations, an evaluation of all the pump stations' storage capacities and the rotation schedule of the portable power source or pump, including travel timeframes, shall be provided as part of this permit application in the case of a multiple station power outage.

IX. SETBACKS & SEPARATIONS – (02B .0200 & 15A NCAC 02T .0305(f)):

15A NCAC 02T.0305(f) contains minimum separations that shall be provided for sewer systems:

Setback Parameter*	Separation Required
Storm sewers and other utilities not listed below (vertical)	18 inches
² Water mains (vertical - water over sewer preferred, including in benched trenches)	18 inches
² Water mains (horizontal)	10 feet
Reclaimed water lines (vertical - reclaimed over sewer)	18 inches
Reclaimed water lines (horizontal - reclaimed over sewer)	2 feet
**Any private or public water supply source, including any wells, WS-I waters of Class I or Class II impounded reservoirs used as a source of drinking water, and associated wetlands.	100 feet
**Waters classified WS (except WS-I or WS-V), B, SA, ORW, HQW, or SB from normal high water (or tide elevation) and wetlands associated with these waters (see item IX.2)	50 feet
**Any other stream, lake, impoundment, or ground water lowering and surface drainage ditches, as well as wetlands associated with these waters or classified as WL.	10 feet
Any building foundation (horizontal)	5 feet
Any basement (horizontal)	10 feet
Top slope of embankment or cuts of 2 feet or more vertical height	10 feet
Drainage systems and interceptor drains	5 feet
Any swimming pools	10 feet
Final earth grade (vertical)	36 inches

➤ If noncompliance with [02T.0305\(f\) or \(g\)](#), see Section X.1 of this application

*[15A NCAC 02T.0305\(g\)](#) contains alternatives where separations in [02T.0305\(f\)](#) cannot be achieved. Please check “yes” below if these alternatives are used and provide narrative information to explain.

**Stream classifications can be identified using the Division’s [NC Surface Water Classifications webpage](#)

- Does the project comply with all separations/alternatives found in [15A NCAC 02T .0305\(f\) & \(g\)](#)? ☒ Yes ☐ No
- Does this project comply with the minimum separation requirements for water mains? ☒ Yes ☐ No ☒ N/A
 - If no, please refer to 15A NCAC 18C.0906(f) for documentation requirements and submit a separate document, signed/sealed by an NC licensed PE, verifying the criteria outlined in that Rule.
- Does the project comply with separation requirements for wetlands? ☒ Yes ☐ No ☒ N/A
 - Please provide supplementary information identifying the areas of non-conformance.
 - See the Division’s [draft separation requirements](#) for situations where separation cannot be met.
 - No variance is required if the alternative design criteria specified is utilized in design and construction.
- Is the project located in a river basin subject to any State buffer rules or Trout Buffered Streams per [15A NCAC 2B.0202](#)? ☐ Yes Basin name: _____ ☒ No

If yes, does the project comply with setbacks found in the river basin rules per [15A NCAC 02B .0200](#)? ☐ Yes ☐ No
- Does the project require coverage/authorization under a 404 Nationwide/individual permits or 401 Water Quality Certifications? ☐ Yes ☒ No
 - Please provide the permit number/permitting status in the cover letter if coverage/authorization is required.
- Does project comply with [15A NCAC 02T.0105\(c\)\(6\)](#) (additional permits/certifications)? ☒ Yes ☐ No

Per [15A NCAC 02T.0105\(c\)\(6\)](#), directly related environmental permits or certification applications must be being prepared, have been applied for, or have been obtained. Issuance of this permit is contingent on issuance of dependent permits (erosion and sedimentation control plans, stormwater management plans, etc.).
- Does this project include any sewer collection lines that are deemed “high-priority?” ☐ Yes ☒ No

Per [15A NCAC 02T.0402](#), “high-priority sewer” means any aerial sewer, sewer contacting surface waters, siphon, or sewers positioned parallel to streambanks that are subject to erosion that undermines or deteriorates the sewer.

Siphons and sewers suspended through interference/conflict boxes require a variance approval.

 - If yes, include an attachment with details for each line, including type (aerial line, size, material, and location).

High priority lines shall be inspected by the permittee or its representative at least once every six-months and inspections documented per 15A NCAC 02T.0403(a)(5) or the permittee’s individual System-Wide Collection permit.

X. CERTIFICATIONS:

1. Does the submitted system comply with 15A NC AC 021, the Minimum Design Criteria for the Permitting of Pump Stations and Force Mains (latest version) and the Gravity Sewer Minimum Design Criteria (latest version) as applicable?

☒ Yes

☐ No

If no, you must provide the application number of the variance pending approval in order to proceed with this application. The Variance/Alternative Sewer Application form is available on the Sewer Extension Permitting website. Projects requiring two or more variances, or a variance determined by the Division to be a significant portion of the project, may be required to submit the project for a full technical review.

2. Professional Engineer's Certification:

I, DAVID M. KLEBITZ

(Professional Engineer's name from Application Item III.1.)

, attest that this application for MOBILE COMMERCIAL COMPLEX

(Project Name from Application Item II.1)

has been reviewed by me and is accurate, complete and consistent with the information supplied in the plans, specifications, engineering calculations, and all other supporting documentation to the best of my knowledge. I further attest that to the best of my knowledge the proposed design has been prepared in accordance with the applicable regulations, Minimum Design Criteria for Gravity Sewers (latest version), and the Minimum Design Criteria for the Fast-Track Permitting of Pump Stations and Force Mains (latest version). Although other professionals may have developed certain portions of this submittal package, inclusion of these materials under my signature and seal signifies that I have reviewed this material and have judged it to be consistent with the proposed design.

NOTE - In accordance with General Statutes 143-215.6A and 143-215.6B, any person who knowingly makes any false statement, representation, or certification in any application package shall be guilty of a Class 2 misdemeanor, which may include a fine not to exceed \$10,000, as well as civil penalties up to \$25,000 per violation. Misrepresentation of the application information, including failure to disclose any design non-compliance with the applicable Rules and design criteria, may subject the North Carolina-licensed Professional Engineer to referral to the licensing board. (21 NCAC 56.0701)

North Carolina Professional Engineer's seal, signature, and date:



3. Applicant's Certification per 15A NCAC 02T .0106(b):

I, REBECCA GAY, COUNTY MANAGER

(Signature Authority Name from Application Item I.3.)

, attest that this application for MOBILE COMMERCIAL COMPLEX

(Project Name from Application Item II.1)

attest that this application has been reviewed by me and is accurate and complete to the best of my knowledge. I understand that if all required parts of this application are not completed and that if all required supporting documentation and attachments are not included, this application package is subject to being returned as incomplete. I understand that any discharge of wastewater from this non-discharge system to surface waters or the land will result in an immediate enforcement action that may include civil penalties, injunctive relief, and/or criminal prosecution. I will make no claim against the Division of Water Resources should a condition of this permit be violated. I also understand that if all required parts of this application package are not completed and that if all required supporting information and attachments are not included, this application package will be returned to me as incomplete.

NOTE - In accordance with General Statutes 143-215.6A and 143-215.6B, any person who knowingly makes any false statement, representation, or certification in any application package shall be guilty of a Class 2 misdemeanor, which may include a fine not to exceed \$10,000 as well as civil penalties up to \$25,000 per violation.

Signature:

Rebecca Gay

Date: 11/17/2025

JOSH STEIN
Governor

D. REID WILSON
Secretary

RICHARD E. ROGERS, JR.
Director



NORTH CAROLINA
Environmental Quality

FLOW TRACKING FOR SEWER EXTENSION APPLICATIONS

FTSE 03-25

Entity Requesting Allocation: 104 Lark, LLC

Project Name for which flow is being requested: Moyock Commons Commercial Complex

More than one FTSE may be required for a single project if the owner of the WWTP is not responsible for all pump stations along the route of the proposed wastewater flow.

I. Complete this section only if you are the owner of the wastewater treatment plant.

a. WWTP Facility Name: Moyock Commons WWTP

b. WWTP Facility Permit #: WQ0015053

All flows are in MGD

c. WWTP facility's permitted flow 0.040

d. Estimated obligated flow not yet tributary to the WWTP 0.23873

e. WWTP facility's actual avg. flow 0.00865

f. Total flow for this specific request 0.01265

g. Total actual and obligated flows to the facility 0.032523

h. Percent of permitted flow used 81

II. Complete this section for each pump station you are responsible for along the route of this proposed wastewater flow.

List pump stations located between the project connection point and the WWTP:

Pump Station (Name or Number)	Pump Station Permit No.	Firm Capacity, * MGD	(A) Design Average Daily Flow** (Firm / pf), MGD	(B) Approx. Current Avg. Daily Flow, MGD	(C) Obligated, Not Yet Tributary Daily Flow, MGD	(D)=(B+C) Total Current Flow Plus Obligated Flow	(E)=(A-D) Available Capacity***
Moyock Commons	WQ0015053	0.246240	0.048496	0.00865	0.023873	0.032523	0.065973

* The Firm Capacity (design flow) of any pump station is defined as the maximum pumped flow that can be achieved with the largest pump taken out of service.

** Design Average Daily Flow is the firm capacity of the pump station divided by a peaking factor (pf) not less than 2.5, per Section 2.02(A)(4)(c) of the Minimum Design Criteria.

*** A Planning Assessment Addendum shall be attached for each pump station located between the project connection point and the WWTP where the Available Capacity is ≤ 0 .

Downstream Facility Name (Sewer): Moyock Commons WWTP

Downstream Permit Number:

WQ0015053

III. Certification Statement:

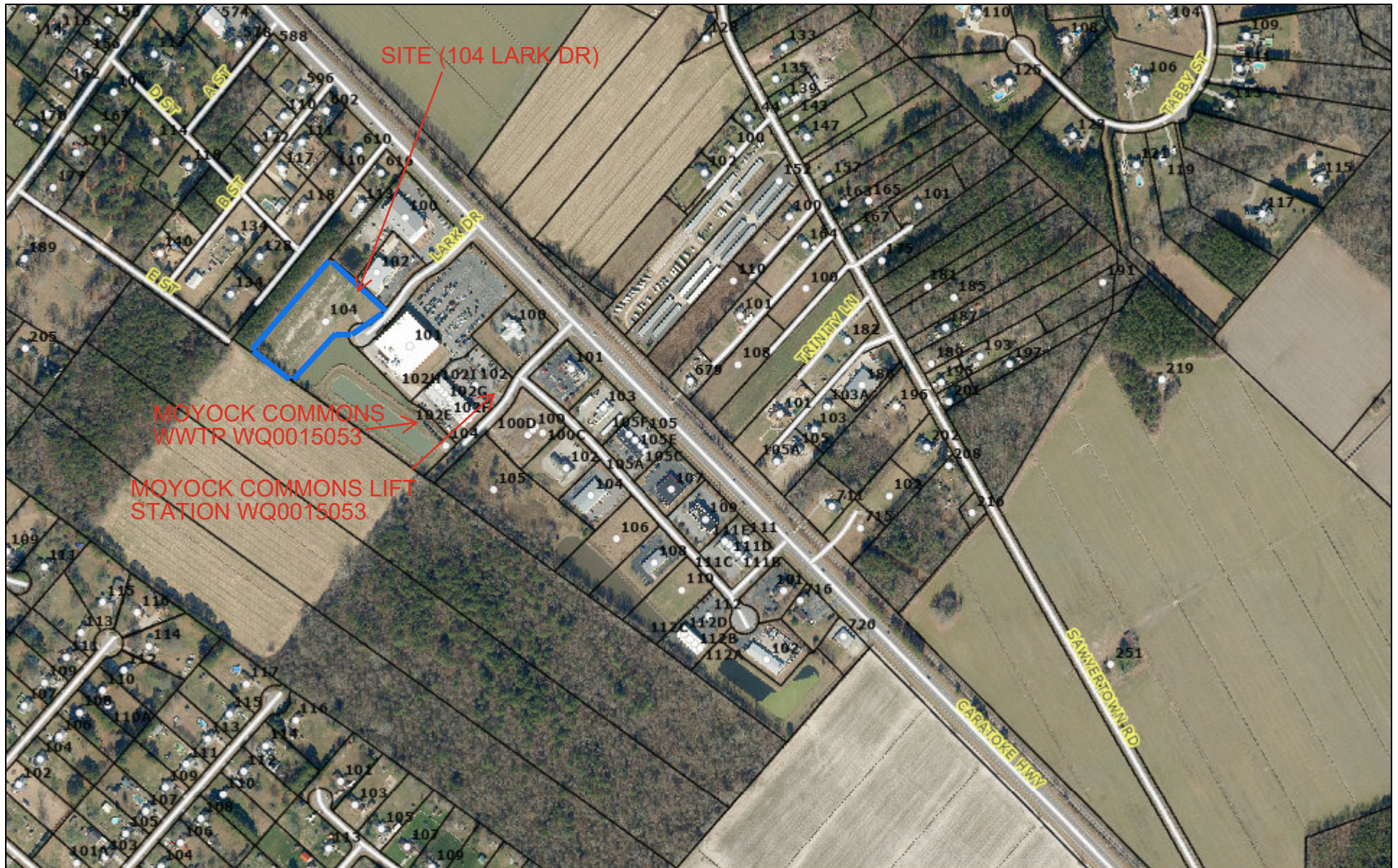
I Rebecca L. Gay certify to the best of my knowledge that the addition of the volume of wastewater to be permitted in this project has been evaluated along the route to the receiving wastewater treatment facility and that the flow from this project is not anticipated to cause any capacity related sanitary sewer overflows or overburden any downstream pump station en route to the receiving treatment plant under normal circumstances, given the implementation of the planned improvements identified in the planning assessment where applicable. This analysis has been performed in accordance with local established policies and procedures using the best available data. This certification applies to those items listed above in Sections I and II plus all attached planning assessment addendums for which I am the responsible party. Signature of this form certifies that the receiving collection system or treatment works has adequate capacity to transport and treat the proposed new wastewater.

Rebecca L. Gay
Signing Official Signature





11/17/2025
Date

County Manager
Title of Signing Official

Site Map for Moyock Business Commons



November 6, 2025

-  Addresses
-  Parcels
-  County Boundary
-  Streets

