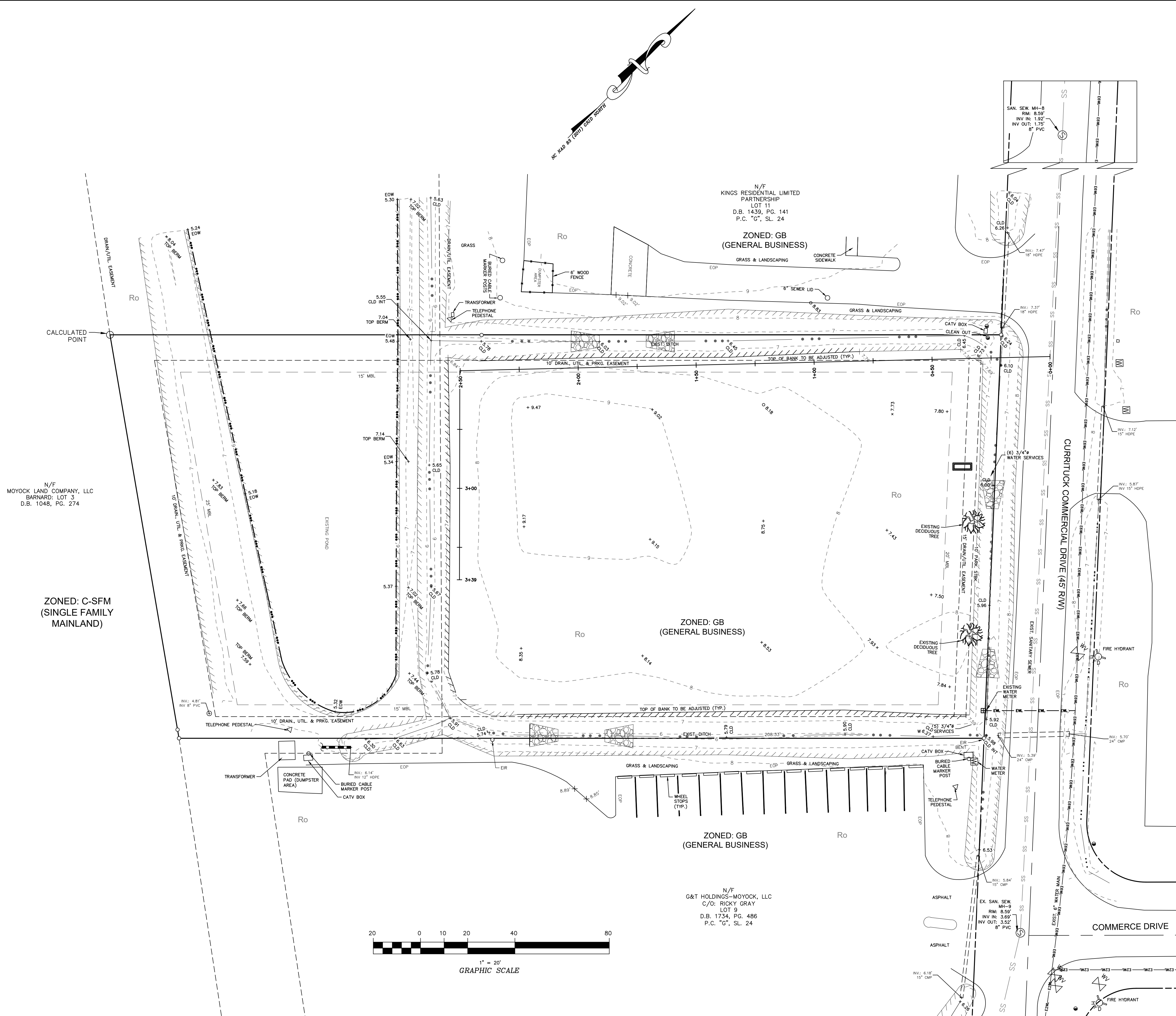
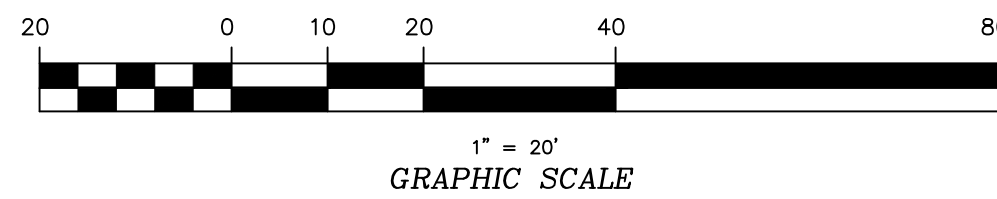






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CONSTRUCTION

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DESIGNED:	CHECKED: MSB
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SHEET:	

2	OF	12
CAD FILE: 48700B1		
PROJECT NO: 4870		

CONSTRUCTION DRAWINGS
MILLER HOMES & BUILDING, LLC
 CUPERTINO COUNTY NORTH CAROLINA
 MOYOCK TOWNSHIP

EXISTING SITE FEATURES AND CONDITIONS

BISSELL
PROFESSIONAL GROUP

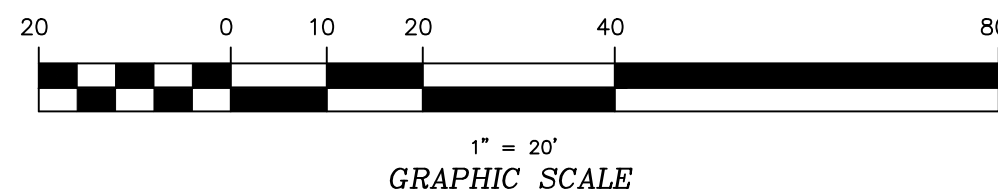
Engineers, Planners, Surveyors
and Environmental Specialists

Bissell Professional Group
Firm License # C-956
3572 North Houston Highway
P.O. Box 909
Kitty Hawk, North Carolina 27949
Phone (252) 261-1760
Fax (252) 261-1760

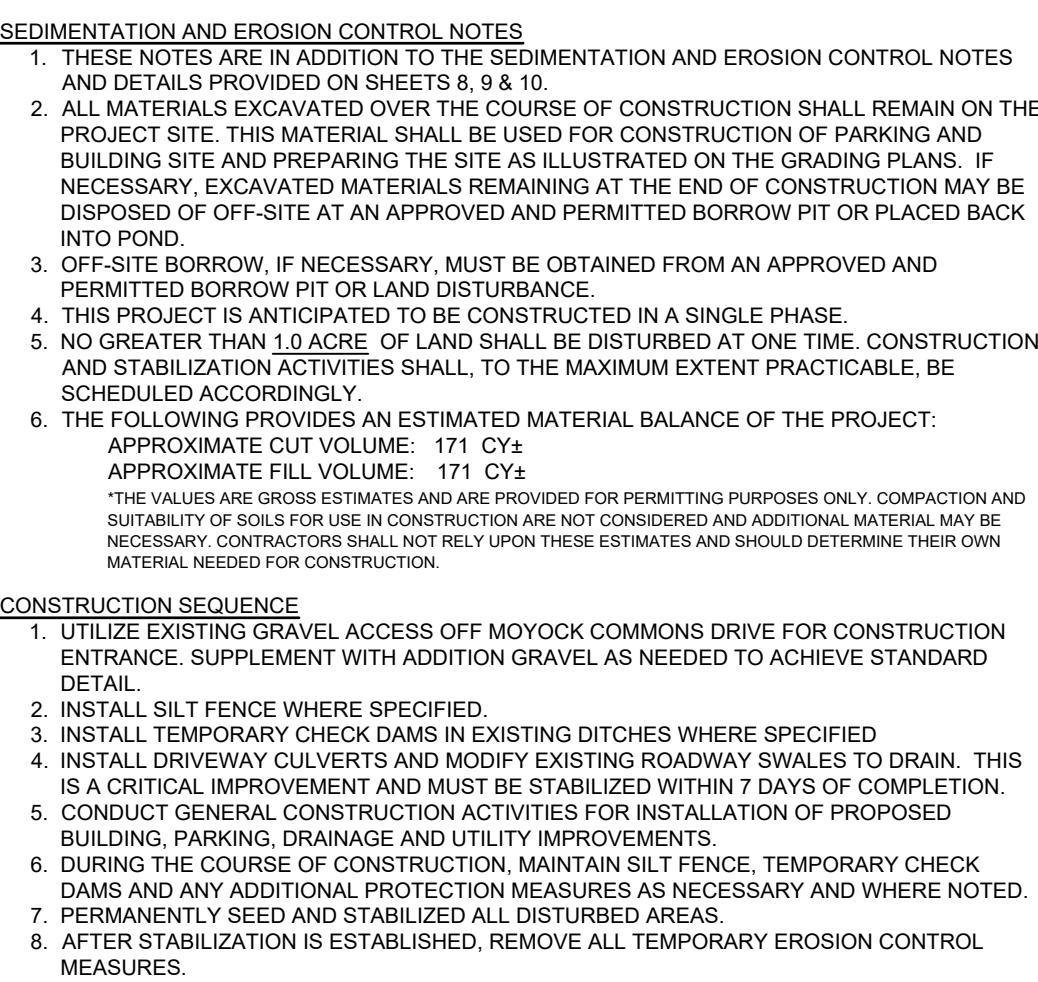




N/F
G&T HOLDINGS-MOYOCK, LLC
C/O: RICKY GRAY
LOT 9
D.B. 1734, PG. 486
P.C. "G", SL. 24



DATE: 07/30/24	SCALE: 1" = 20'
DESIGNED: BPG	CHECKED: MSB
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SHEET: 4 OF 12	
CAD FILE: 48700B1	
PROJECT NO: 4870	



MILLER HOMES & BUILDING, LLC

CURRITUCK TOWNSHIP
NORTH CAROLINA

CONSTRUCTION DRAWINGS

PROJECT: _____

BY: _____

EROSION AND SEDIMENT
CONTROL PLAN

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NO. _____

DATE _____

DESCRIPTION _____

REVISIONS

DATE: 02/17/25

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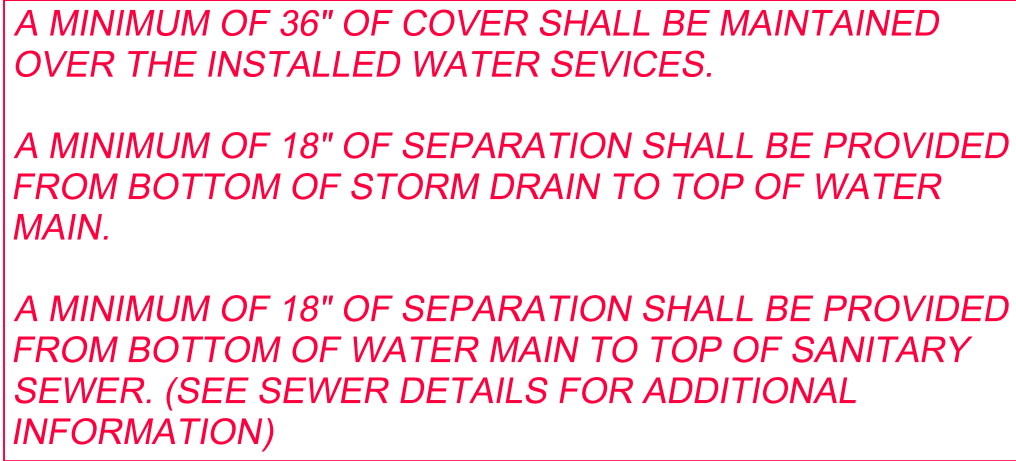
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CAD FILE: 48700B1

PROJECT NO: 4870

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PRELIMINARY
DO NOT USE FOR
CONSTRUCTION

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SHEET:
6 OF 12

CAD FILE:
48700B1

PROJECT NO:
4870

PISSSELL
PROFESSIONAL GROUP
Engineers, Planners, Surveyors
and Environmental Specialists

Bissell Professional Group
Firm License # C-945
3512 North Ocean Highway
P.O. Box 1048
Ft. Pierce, Florida 34949
(888) 261-2266
FAX (252) 261-1760

**DOMESTIC WATER SERVICES &
SANITARY SEWER CONNECTIONS**

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SHEET: 7 OF 12	
CAD FILE: 48700B1	
PROJECT NO: 4870	

PROJECT: **MILLER HOMES & BUILDING, LLC**
 MOYOCK TOWNSHIP CURRITUCK COUNTY NORTH CAROLINA

CONSTRUCTION DRAWINGS

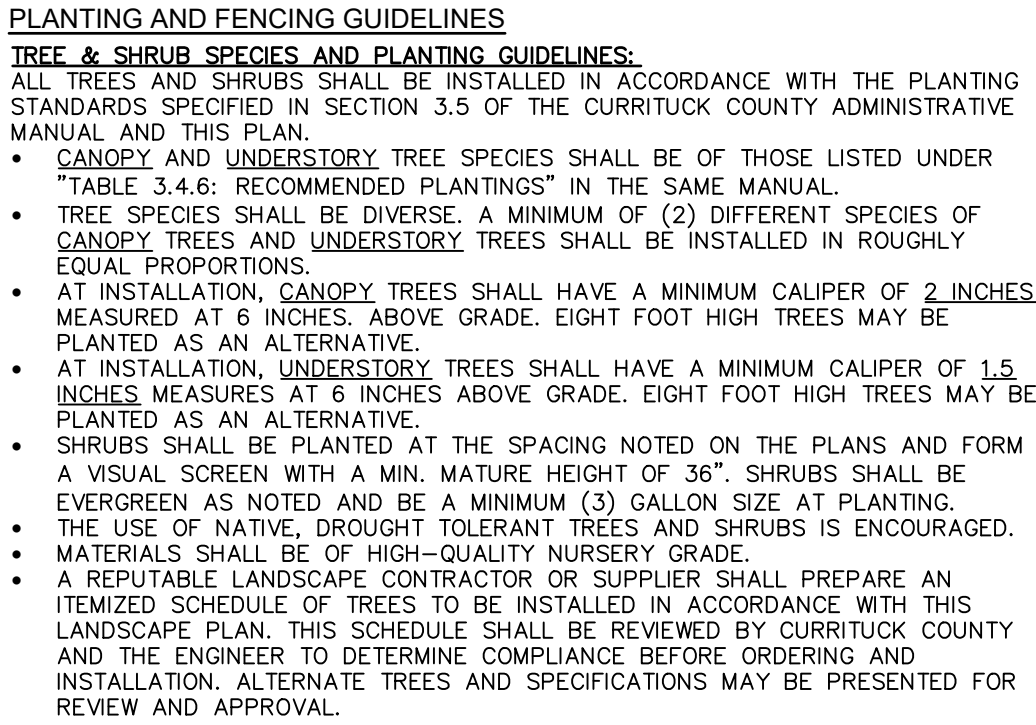
**DOMESTIC WATER SERVICES &
SANITARY SEWER CONNECTIONS**

BISSELL
PROFESSIONAL GROUP

Engineers, Planners, Surveyors
and Environmental Specialists

Bissell Professional Group
Firm License # C-396
10000 North Ocean Highway
P.O. Box 1000
Kitty Hawk, North Carolina 27949
(252) 261-3266
Fax (252) 261-1760

PHOTOMETRIC SCHEDULE	
CALCULATIONS	VALUES
AVERAGE FOOT-CANDLES	0.86
MAXIMUM FOOT-CANDLES	7.03
MINIMUM FOOT-CANDLES	0.00
MINIMUM TO MAXIMUM FC RATIO	0.00
MAXIMUM TO MINIMUM FC RATIO	7.03/0.00
AVERAGE TO MINIMUM FC RATIO	0.86/0.00



FENCE AND WALL GUIDELINES:

- ALL FENCES AND WALLS SHALL BE INSTALLED IN ACCORDANCE WITH THE STANDARD SPECIFIED SECTIONS 5.2.7.0.(3) & 5.3 OF THE CURRTPUR COUNTY UDO AND THIS PLAN.
- THE FENCE SHALL BE OF SOLID CONSTRUCTION AND NOT EXCEED OR FALL BELOW THE SPECIFIED HEIGHT.
- OPAQUE FENCES SHALL BE CONSTRUCTED OF TREATED OR ROT-RESISTANT WOOD, OR A PLASTIC IR VINYL FENCE DESIGNED TO LOOK LIKE AN OPAQUE WOOD FENCE.
- BARBED WIRE, CONCERNITA WIRE AND ABOVE GROUND ELECTRIFIED FENCES ARE PROHIBITED.
- USE OF CHAIN LINK FENCING WITH WOODEN OR PLASTIC SLATS SHALL BE LIMITED TO DRIVEWAYS AND ALLEYS ONLY.
- FENCING ALONG A MAJOR ARTERIAL ROADWAY SHALL BE INSTALLED WITH THE "FINISHED" SIDE FACING THE ROADWAY.
- THE FENCE OR WALL SHALL BE INSTALLED ALONG A SINGLE LOT SIDE SHALL BE COMPOSED OF A UNIFORM STYLE AND COLORS COMPATIBLE WITH OTHER PARTS OF THE FENCE.
- FENCES SHALL BE DESIGNED AND INSTALLED BY A REPUTABLE FENCE CONTRACTOR.

- a. (2) CALIPER INCHES OF CANOPY TREES PER ACRE.
- b. (1) SHRUB PER EACH 5 FEET OF BUILDING FACADE FACING A STREET.
- c. AT LEAST ONE-HALF OF SHRUBS SHALL BE EVERGREEN.

PROVISIONS.

- a. THE AREA OF THIS PROJECT IS APPROX. 1.28 ACRES REQUIRING (2.6) AGGREGATE CALIPER INCHES OF CANOPY TREE. SEE PLAN FOR (13) CANOPY TREES PROPOSED ON SITE PROVIDING (26) AGGREGATE CALIPER INCHES.
- b. THE PROPOSED BUILDING FACADE FACING CURRITUCK COMMERCIAL OR IS 120', REQUIRING (24) SHRUBS. SEE PLAN FOR A TOTAL OF (24) SHRUBS PROPOSED ALONG THE FRONT BUILDING FACADE. 50% ARE NOTED AS EVERGREEN.
- c. THE PROPOSED BUILDING FACADE FACING MOYOCK COMMONS DR IS 81', REQUIRING (16) SHRUBS. SEE PLAN FOR A TOTAL OF (16) SHRUBS PROPOSED ALONG THE FRONT BUILDING FACADE. 50% ARE NOTED AS EVERGREEN.

- **REQUIREMENTS:**
 - 1. SHADING – NO PARKING SPACE TO BE MORE THAN 60' FROM THE TRUNK OF A CANOPY TREE
 - 2. PERIMETER LANDSCAPING STRIPS COMPOSED OF:
 - 1. SHRUBS @ 5 FT ON-CENTER ALONG ABUTTING STREET R/W OR OTHER DEVELOPMENT
 - 2. SHRUBS MUST BE EVERGREEN.
 - 3. NO PERIMETER LANDSCAPING STRIP IS REQUIRED ALONG THE SOUTHEASTERN SIDES OF THE PARKING AREA THAT FACE AN EXISTING PARKING AREA ON THE ADJOINING COMMERCIALLY DEVELOPED PROPERTY TO THE SOUTHEAST.
- **PROVISIONS:**
 - a. SHADING – SEE PLAN FOR (13) CANOPY TREES PROPOSED THROUGHOUT THE VEHICLE USE AREA AND LOCATED WITHIN 60' OF ALL PARKING SPACES.
 - b. PERIMETER LANDSCAPING STRIPS COMPOSED OF:
 - 1. SEE PLAN FOR (98) EVERGREEN SHRUBS SPACED @ 5' O.C. ALONG ABUTTING R/W AND OTHER DEVELOPMENT.

THE SITE AND SURROUNDING PROPERTIES ARE ALL ZONED GB, THEREFORE, PERIMETER LANDSCAPE BUFFERS ARE NOT REQUIRED.

- **REQUIREMENTS:**
 - a. REFUSE DUMPSTERS SHALL BE SCREENED WITH APPROVED METHODS
 - b. LOADING BAYS & DOCKS SHALL BE SCREENED WITH APPROVED METHODS
- **PROVISIONS:**
 - a. SEE PLAN AND TYPICAL DETAIL FOR OPAQUE SCREENING ENCLOSURE OF PROPOSED DUMPSITER.
 - b. SEE PLAN FOR (3) CANOPY TREES + (3) UNDERSTORY TREES + (21) SHRUBS PROPOSED AROUND LOADING ZONE.

- REQUIREMENTS: [PER SITES VISIBLE FROM, BUT NOT ACCESSED FROM MAJOR ARTERIAL]
- o. (8) AGGREGATE CALIPER INCHES OF CANOPY TREES PER 100 LINEAR FEET.
- PROVISIONS:
 - a. PROPERTY FRONTAGE FACING HWY 168 EXTENDS 242', REQUIRING 19.4 ACI OF CANOPY TREES.
 - b. SEE PLAN FOR (7) PROPOSED CANOPY TREES + (1) EXISTING TREE BEING RETAINED FACING HWY 168.



Introduction

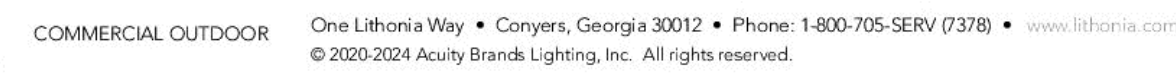
The Lithonia Lighting ARC LED wall-mounted luminaires provide both architectural styling and visually comfortable illumination while providing the high energy savings and low initial costs for quick financial payback.

ARC1 delivers up to 3,000 lumens with a soft, non-pixelated light source, creating a visually comfortable environment. The compact size of ARC1, with its integrated emergency battery backup option, is ideal for over-the-door applications.

Specifications

Depth (D1):	6.5"
Depth (D2):	4.75"
Height:	5"
Width:	11"
Weight: (without options)	7 lbs

ARC LED Family Overview							
Luminaire	Standard EM, 0°C	Cold EM, -20°C	Approximate Lumens (4000K)				
			P1	P2	P3	P4	P5
ARC1 LED	4W	--	1,500	2,000	3,000	--	--



Net Weight: 17.0 lbs (7.7 kgs)



Construction • Cast aluminum thermal isolated from optics for optimal thermal performance • De-cast aluminum heat sinks • IP50 rated housing • 15% vibration rated	Electrical • Electrical safety assembly mounted for ease of maintenance • 100W LED, 1000 lumen, 120° viewing • Optional 100V or 200V surge capable • Suitable for operation in -40°C to 40°C ambient environments; Optional 50°C to 60°C (MAX) configuration • Luminaires available with the fully adjustable dimming controller (FADO) to manually adjust output and light levels. Comes pre-set to the highest position at the warmer output selected	Finish • Housing finished in super durable TIGC powder coat paint, 2.5 mil nominal thickness • Heat sink in powder coated black • RAAL, and custom color matches available • Cast Construction (CC) option available
Optics • Patented, high-efficiency injection molded Acrylic LED Optics technology • 13 optical designs • DALI Certified (3000K CCT and warmer output)	Mounting • Gasketed and zinc plated rigid steel mounting attachment • “Hook-N-Lock” mechanism for easy installation	Typical Applications • Health Club, Wellness • Warranty • Five year limited warranty, consult website for details. www.opticsengineering.com/warranty

Implementing the details and specifications on this plan sheet will result in the construction activity being considered compliant with the Ground Stabilization and Materials Handling sections of the NCG01 Construction General Permit (Sections E and F, respectively). The permittee shall comply with the Erosion and Sediment Control plan approved by the delegated authority having jurisdiction. All details and specifications shown on this sheet may not apply depending on site conditions and the delegated authority having jurisdiction.

Required Ground Stabilization Timeframes		
Site Area Description	Stabilize within this many calendar days after ceasing land disturbance	Timeframe variations
(a) Perimeter dikes, swales, ditches, and perimeter slopes	7	None
(b) High Quality Water (HQW) Zones	7	None
(c) Slopes steeper than 3:1	7	If slopes are 10' or less in length and are not steeper than 2:1, 14 days are allowed
(d) Slopes 3:1 to 4:1	14	-7 days for slopes greater than 50' in length and with slopes steeper than 4:1 -7 days for perimeter dikes, swales, ditches, perimeter slopes and HQW Zones -10 days for Falls Lake Watershed
(e) Areas with slopes flatter than 4:1	14	-7 days for perimeter dikes, swales, ditches, perimeter slopes and HQW Zones -10 days for Falls Lake Watershed unless there is zero slope

GROUND STABILIZATION SPECIFICATION

Temporary Stabilization	Permanent Stabilization
• Temporary grass seed covered with straw or other mulches and tackifiers • Hydroseeding • Rolled erosion control products with or without temporary grass seed • Appropriately applied straw or other mulch • Plastic sheeting	• Permanent grass seed covered with straw or other mulches and tackifiers • Geotextile fabrics such as permanent soil reinforcement matting • Hydroseeding • Shrubs or other permanent plantings covered with mulch • Uniform and evenly distributed ground cover sufficient to restrain erosion • Structural methods such as concrete, asphalt or retaining walls • Rolled erosion control products with grass seed

1. Select flocculants that are appropriate for the soils being exposed during construction, selecting from the *NC DWR List of Approved PAMS/Flocculants*.
2. Apply flocculants at or before the inlets to Erosion and Sediment Control Measures.
3. Apply flocculants at the concentrations specified in the *NC DWR List of Approved PAMS/Flocculants* and in accordance with the manufacturer's instructions.
4. Provide ponding area for containment of treated Stormwater before discharging offsite.
5. Store flocculants in leak-proof containers that are kept under storm-resistant cover or surrounded by secondary containment structures.

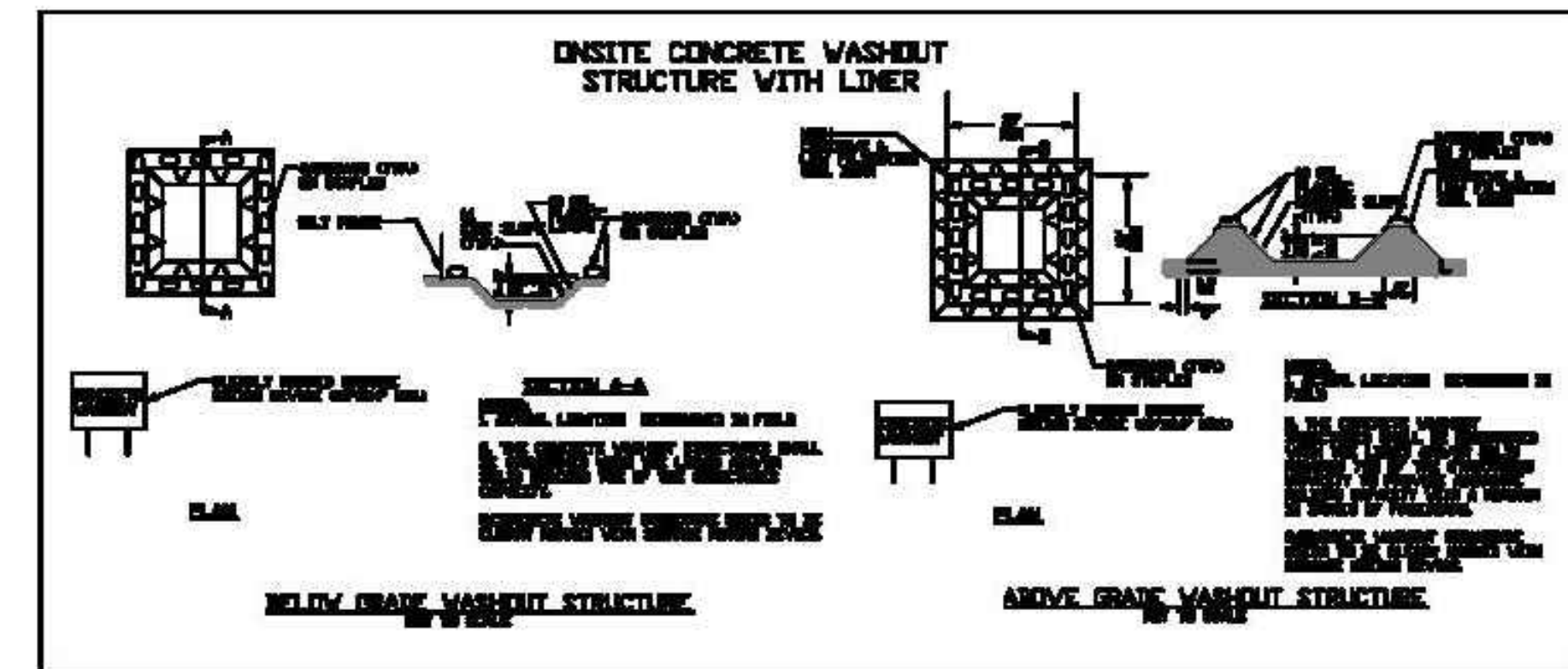
1. Maintain vehicles and equipment to prevent discharge of fluids.
2. Provide drip pans under any stored equipment.
3. Identify leaks and repair as soon as feasible, or remove leaking equipment from the project.
4. Collect all spent fluids, store in separate containers and properly dispose as hazardous waste (recycle when possible).
5. Remove leaking vehicles and construction equipment from service until the problem has been corrected.
6. Bring used fuels, lubricants, coolants, hydraulic fluids and other petroleum products to a recycling or disposal center that handles these materials.

1. Never bury or burn waste. Place litter and debris in approved waste containers.
2. Provide a sufficient number and size of waste containers (e.g dumpster, trash receptacle) on site to contain construction and domestic wastes.
3. Locate waste containers at least 50 feet away from storm drain inlets and surface waters unless no other alternatives are reasonably available.
4. Locate waste containers on areas that do not receive substantial amounts of runoff from upland areas and does not drain directly to a storm drain, stream or wetland.
5. Cover waste containers at the end of each workday and before storm events or provide secondary containment. Repair or replace damaged waste containers.
6. Anchor all lightweight items in waste containers during times of high winds.
7. Empty waste containers as needed to prevent overflow. Clean up immediately if containers overflow.
8. Dispose waste off-site at an approved disposal facility.
9. On business days, clean up and dispose of waste in designated waste containers.

1. Do not dump paint and other liquid waste into storm drains, streams or wetlands.
2. Locate paint washouts at least 50 feet away from storm drain inlets and surface waters unless no other alternatives are reasonably available.
3. Contain liquid wastes in a controlled area.
4. Containment must be labeled, sized and placed appropriately for the needs of site.
5. Prevent the discharge of soaps, solvents, detergents and other liquid wastes from construction sites.

1. Install portable toilets on level ground, at least 50 feet away from storm drains, streams or wetlands unless there is no alternative reasonably available. If 50 foot offset is not attainable, provide relocation of portable toilet behind silt fence or place on a gravel pad and surround with sand bags.
2. Provide staking or anchoring of portable toilets during periods of high winds or in high foot traffic areas.
3. Monitor portable toilets for leaking and properly dispose of any leaked material. Utilize a licensed sanitary waste hauler to remove leaking portable toilets and replace with properly operating unit.

1. Show stockpile locations on plans. Locate earthen-material stockpile areas at least 50 feet away from storm drain inlets, sediment basins, perimeter sediment controls and surface waters unless it can be shown no other alternatives are reasonably available.
2. Protect stockpile with silt fence installed along toe of slope with a minimum offset of five feet from the toe of stockpile.
3. Provide stable stone access point when feasible.
4. Stabilize stockpile within the timeframes provided on this sheet and in accordance with the approved plan and any additional requirements. Soil stabilization is defined as vegetative, physical or chemical coverage techniques that will restrain accelerated erosion on disturbed soils for temporary or permanent control needs.



1. Do not discharge concrete or cement slurry from the site.
2. Dispose of, or recycle settled, hardened concrete residue in accordance with local and state solid waste regulations and at an approved facility.
3. Manage washout from mortar mixers in accordance with the above item and in addition place the mixer and associated materials on impervious barrier and within lot perimeter silt fence.
4. Install temporary concrete washouts per local requirements, where applicable. If an alternate method or product is to be used, contact your approval authority for review and approval. If local standard details are not available, use one of the two types of temporary concrete washouts provided on this detail.
5. Do not use concrete washouts for dewatering or storing defective curb or sidewalk sections. Storm water accumulated within the washout may not be pumped into or discharged to the storm drain system or receiving surface waters. Liquid waste must be pumped out and removed from project.
6. Locate washouts at least 50 feet from storm drain inlets and surface waters unless it can be shown that no other alternatives are reasonably available. At a minimum, install protection of storm drain inlet(s) closest to the washout which could receive spills or overflow.
7. Locate washouts in an easily accessible area, on level ground and install a stone entrance pad in front of the washout. Additional controls may be required by the approving authority.
8. Install at least one sign directing concrete trucks to the washout within the project limits. Post signage on the washout itself to identify this location.
9. Remove leavings from the washout when at approximately 75% capacity to limit overflow events. Replace the tarp, sand bags or other temporary structural components when no longer functional. When utilizing alternative or proprietary products, follow manufacturer's instructions.
10. At the completion of the concrete work, remove remaining leavings and dispose of in an approved disposal facility. Fill pit, if applicable, and stabilize any disturbance caused by removal of washout.

1. Store and apply herbicides, pesticides and rodenticides in accordance with label restrictions.
2. Store herbicides, pesticides and rodenticides in their original containers with the label, which lists directions for use, ingredients and first aid steps in case of accidental poisoning.
3. Do not store herbicides, pesticides and rodenticides in areas where flooding is possible or where they may spill or leak into wells, stormwater drains, ground water or surface water. If a spill occurs, clean area immediately.
4. Do not stockpile these materials onsite.

1. Create designated hazardous waste collection areas on-site.
2. Place hazardous waste containers under cover or in secondary containment.
3. Do not store hazardous chemicals, drums or bagged materials directly on the ground.

SECTION A: SELF-INSPECTION

Inspect	Frequency (during normal business hours)	Inspection records must include:
(1) Rain gauge maintained in good working order	Daily	Daily rainfall amounts. If no daily rain gauge observations are made during weekend or holiday periods, and no individual-day rainfall information is available, record the cumulative rain measurement for those unattended days (and this will determine if a site inspection is needed). Days on which no rainfall occurred shall be recorded as "zero." The permittee may use another rain-monitoring device approved by the Division.
(2) E&SC Measures	At least once per 7 calendar days and within 24 hours of a rain event ≥ 1.0 inch in 24 hours	1. Identification of the measures inspected, 2. Date and time of the inspection, 3. Name of the person performing the inspection, 4. Indication of whether the measures were operating properly, 5. Description of maintenance needs for the measure, 6. Description, evidence, and date of corrective actions taken.
(3) Stormwater discharge outfalls (SDCs)	At least once per 7 calendar days and within 24 hours of a rain event ≥ 1.0 inch in 24 hours	1. Identification of the discharge outfalls inspected, 2. Date and time of the inspection, 3. Name of the person performing the inspection, 4. Evidence of indicators of stormwater pollution such as oil sheen, floating or suspended solids or discoloration, 5. Indication of visible sediment leaving the site, 6. Description, evidence, and date of corrective actions taken.
(4) Perimeter of site	At least once per 7 calendar days and within 24 hours of a rain event ≥ 1.0 inch in 24 hours	If visible sedimentation is found outside site limits, then a record of the following shall be made: 1. Actions taken to clean up or stabilize the sediment that has left the site limits, 2. Description, evidence, and date of corrective actions taken, and 3. An explanation as to the actions taken to control future releases.
(5) Streams or wetlands onsite or offsite (where accessible)	At least once per 7 calendar days and within 24 hours of a rain event ≥ 1.0 inch in 24 hours	If the stream or wetland has increased visible sedimentation or a stream has visible increased turbidity from the construction activity, then a record of the following shall be made: 1. Description, evidence and date of corrective actions taken, and 2. Records of the required reports to the appropriate Division Regional Office per Part III, Section C, Item (2)(a) of this permit.
(6) Ground stabilization measures	After each phase of grading	1. The phase of grading (installation of perimeter E&SC measures, clearing and grubbing, installation of storm drainage facilities, completion of all land-disturbing activity, construction or redevelopment, permanent ground cover). 2. Documentation that the required ground stabilization measures have been provided within the required timeframe or an assurance that they will be provided as soon as possible.

PART II, SECTION G, ITEM (4)

- (a) The E&SC plan authority has been provided with documentation of the non-surface withdrawal and the specific time periods or conditions in which it will occur. The non-surface withdrawal shall not commence until the E&SC plan authority has approved these items,
- (b) The non-surface withdrawal has been reported as an anticipated bypass in accordance with Part III, Section C, Item (2)(c) and (d) of this permit,
- (c) Dewatering discharges are treated with controls to minimize discharges of pollutants from stormwater that is removed from the sediment basin. Examples of appropriate controls include properly sited, designed and maintained dewatering tanks, weir tanks, and filtration systems,
- (d) Vegetated, upland areas of the sites or a properly designed stone pad is used to the extent feasible at the outlet of the dewatering treatment devices described in Item (c) above,
- (e) Velocity dissipation devices such as check dams, sediment traps, and riprap are provided at the discharge points of all dewatering devices, and
- (f) Sediment removed from the dewatering treatment devices described in Item (c) above is disposed of in a manner that does not cause deposition of sediment into waters of the United States.

SECTION B: RECORDKEEPING

Item to Document	Documentation Requirements
(a) Each E&SC measure has been installed and does not significantly deviate from the locations, dimensions and relative elevations shown on the approved E&SC plan.	Initial and date each E&SC measure on a copy of the approved E&SC plan or complete, date and sign an inspection report that lists each E&SC measure shown on the approved E&SC plan. This documentation is required upon the initial installation of the E&SC measures or if the E&SC measures are modified after initial installation.
(b) A phase of grading has been completed.	Initial and date a copy of the approved E&SC plan or complete, date and sign an inspection report to indicate completion of the construction phase.
(c) Ground cover is located and installed in accordance with the approved E&SC plan.	Initial and date a copy of the approved E&SC plan or complete, date and sign an inspection report to indicate compliance with approved ground cover specifications.
(d) The maintenance and repair requirements for all E&SC measures have been performed.	Complete, date and sign an inspection report.
(e) Corrective actions have been taken to E&SC measures.	Initial and date a copy of the approved E&SC plan or complete, date and sign an inspection report to indicate the completion of the corrective action.

3. Documentation to be Retained for Three Years

SECTION C: REPORTING

NORTH CAROLINA
Environmental Quality

EFFECTIVE: 04/01/19



Owner

Project Number	Project Number
Date	Issue Date
Drawn By	Author
Checked By	Checker

A100





Owner

Project Number	Project Number
Date	Issue Date
Drawn By	Author
Checked By	Checker

A101

