

ENCROACHMENT AGREEMENT

CURRITUCK COUNTY PRELIMINARY PLAT & USE PERMIT

CURRITUCK COUNTY CONSTRUCTION AUTHORIZATION

N.C.D.O.T.

CURRITUCK COUNTY BOARD OF COMMISSIONERS

CURRITUCK COUNTY PLANNING STAFF

PB 21-21

8/21/2023

# CONSTRUCTION DRAWINGS FOR ALGONQUIN

## A 10 LOT TRADITIONAL RESIDENTIAL SUBDIVISION POPLAR BRANCH TOWNSHIP CURRITUCK COUNTY NORTH CAROLINA

## Sheet List Table

Sheet Title

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LEGEND ROADWAY CENTERLINE IGHT-OF-WAY ROPERTY BOUNDARY DJOINING PROPERTY LINI EXISTING DITCH CENTERLIN XISTING TREE LINE (APPROXIMAT ROPOSED SWALE W/ FLOW ARROW ROPOSED SWALE HIGH POIN EXISTING GRADE CONTOUR ROPOSED GRADE CONTOU EXISTING SPOT GRADE X 0.00 ROPOSED SPOT GRADE \_\_\_\_\_ EXISTING CULVERT PROPOSED CULVERT PROPOSED DRAINAGE STRUCTURE NO PARKING SIGN CROSSWALK **EROSION CONTROL LEGEND** PROPOSED LIMITS OF DISTURBANCE PROPOSED SILT FENCE PROPOSED STABILIZED CONSTRUCTION ENTRANCE PROPOSED TEMPORARY CHECK DAM UTILITY LEGEND PROPOSED WATER LINE (SIZE AS WI and the second secon NOTED) PROPOSED FIRE HYDRANT (APRX) PROPOSED WATER SERVICE (APRX) PROPOSED VALVE (APRX) PROPOSED BLOW-OFF (APRX) PROPOSED REDUCER (APRX) **PROFILE LEGEND** ---- EXISTING GRADE @ ROAD C/L PROPOSED GRADE @ ROAD C/L PROPOSED WATER LINE (SIZE AS NOTED) PROPOSED HYDRANT ASSEMBLY PROPOSED GATE VALVE PROPOSED REDUCER SOILS LEGEND SOILS LINE INCOLORING INCOMPANY REPORTS INCOMP CnA CONETOE LOAMY SAND Mu MUNDEN LOAMY SAND No NIMMO LOAMY SAND PORTSMOUTH FINE SANDY Pt

LOAM SCS - SOIL SURVEY OF CURRITUCK COUNTY NOTE

EXISTING SITE INFORMATION DESCRIBED HEREON IS BELIEVED TO BE ACCURATE HOWEVER, BPG INC. MAKES NO WARRANTY AS TO THE ACCURACY. IT IS THE CONTRACTORS RESPONSIBILITY TO VERIFY THIS INFORMATION BEFORE RELYING ON IT. THE CONTENT OF THESE DOCUMENTS MAY ALSO INCLUDE TECHNICAL INACCURACIES OR TYPOGRAPHICAL ERRORS. IF SUCH CONDITIONS EXIST, THE CONTRACTOR SHALL CONSULT WITH THE ENGINEER PRIOR TO PROCEEDING WITH THE SCHEDULED WORK AND MAY CONTINUE AFTER AN AUTHORIZATION TO PROCEED HAS BEEN GRANTED

	Bissell Professional Group	Firm License # C-956	2512 North Croatan Highway	Kitty Hawk. North Carolina 27949		PHOTESSIONAL GROUP FAX (252) 261-1760		Engineers, Planners, Surveyors	and Environmental Specialists		
	COVER SHEET, DEVELOPMENT		NOTES & SITE LOCATION			THIS DOCUMENT IS THE SOLE PROPERTY OF BPG, INC. OF KITTY	HAWK, NOKTH CAROLINA. THE REFRODUCTION, IN WHOLE OK	DE MADE WITHOUT THE EVERESS WRITTEN CONSENT OF MADY S	DE MADE WITHOUT THE EATNESS WALLEN CUNSENT OF MAKA S. RISSETT DRINCIPAL OF RDG INC. CODVDICHT 2005		
PROJECT:	ALGONOIJN							SUNVARIATION DE ANNOS	CONTRACTO NOTIONICION		
REVISIONS	NO. DATE DESCRIPTION BY	1 9/6/24 UPSIZE 2" WATERLINE TO 4" .	2 11/18/24 PWS COMMENTS AKM		-					•	
	E: 3/28, GNEE BF AN: TW/ EET 1 OJF	A G DN LEISE CT		0 60 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	E A B S CH AP	B B	R C C SI IN NE NE BI	OX 24 C XX I A ISE	3	A HILL	

## **FINAL DRAWING** NOT RELEASED FOR CONSTRUCTION

SU	RVEY LEGEND
SCM	SET CONCRETE MONUMENT
SIR 💿	SET IRON ROD
EIR	EXISTING IRON ROD
EIP O	EXISTING IRON PIPE
CP o	CALCULATED POINT
M.B.L.	MAXIMUM BUILDING LIMIT
N.T.S.	NOT TO SCALE
P.C.	PLAT CABINET
D.B.	DEED BOOK
SL	SLIDE
SF	SQUARE FEET
AC	ACRES







![](_page_4_Figure_1.jpeg)

![](_page_5_Figure_0.jpeg)

![](_page_6_Figure_0.jpeg)

<ul> <li>CENERAL LANDSCAPING AND BUFFERING NOTES:</li> <li>STREET TREES: STREET TREES SHALL BE PROVIDED IN ACCORDANCE WITH SECTION 6.2.1.K OF THE CURRITUCK UDO AND THIS PLAN.</li> <li>TREES SHALL BE PLANTED ALONG EACH SIDE OF ROADWAYS AS GENERALLY SPECIFIED ON THE LANDSCAPE PLAN.</li> <li>SEE TYPICAL ROADWAY SECTION DETAIL ON SHEET 11</li> <li>TREES SHALL BE PLANTED 35'± FROM CENTERLINE OF THE ROAD</li> <li>TREES SHALL BE CANOPY TYPE PLANTED A MAXIMUM OF 50' O/C. <u>UNDERSTORY</u> TYPE TREES MAY BE SUBSTITUTED AND PLANTED A MAXIMUM OF 30' O/C</li> <li>SEE TREE SPECIES AND PLANTING NOTE BELOW</li> <li>PERIMETER LANDSCAPE BUFFER: <ul> <li>EXISTING TREES AROUND THE PERIMETER OF THE PROPERTY ARE BEING RETAINED TO BUFFER ADJOINING PROPERTIES. AS SHOWN, A 15' PLANTING BUFFER EASEMENT WILL BE PROVIDED FOR MAINTENANCE OF PERIMETER LANDSCAPING</li> </ul> </li> <li>TREE &amp; SHRUB SPECIES AND PLANTING GUIDELINES: ALL TREES AND SHRUBS SHALL BE INSTALLED IN ACCORDANCE WITH THE PLANTING STANDARDS SPECIFIED IN SECTION 3.5 OF THE CURRITUCK COUNTY ADMINISTRATIVE MANUAL AND THIS PLAN.</li> <li><u>CANOPY</u> AND UNDERSTORY TREE SPECIES SHALL BE OF THOSE LISTED UNDER "TABLE 3.4.6: RECOMMENDED PLANTINGS" IN THE SAME MANUAL.</li> <li>TREE SPECIES SHALL BE DIVERSE. A MINIMUM OF (4) DIFFERENT SPECIES OF <u>CANOPY</u> AND <u>UNDERSTORY</u> TREES SHALL BE INSTALLED IN ROUGHLY EQUAL PROPORTIONS.</li> <li>AT INSTALLATION, <u>CANOPY</u> TREES SHALL HAVE A MINIMUM CALIPER OF <u>2 INCHES</u> MEASURED AT 6 INCHES. ABOVE GRADE. EIGHT FOOT HIGH TREES MAY BE PLANTED AS AN ALTERNATIVE.</li> </ul>	Figure 1       Bissell Professional Group         Firm License # C-956       5512 North Croatan Highway         S512 North Cootan Highway       Nith Hawk, North Carolina 27949         PROFESSIONAL GROUp       (252) 261-1760         Engineers, Planner, Surveyors       EAX (252) 261-1760         and Environmental Specialists       Environmental Specialists
<ul> <li>SHRUBS SHALL BE PLANTED AT THE SPACING NOTED ON THE PLANS AND FORM A VISUAL SCREEIN WITH A MIN. MATURE HEIGHT OF 36". SHRUBS SHALL BE EVERGREEN AS NOTED AND BE A MINIMUM OF (3) GALLON SIZE AT PLANTING.</li> <li>MATERIALS SHALL BE OF HIGH-OUALITY NURSERY GRADE.</li> <li>THE USE OF NATIVE, DROUGHT TOLERANT TREES IS ENCOURAGED.</li> <li>A REPUTABLE LANDSCAPE CONTRACTOR OR SUPPLIER SHALL PREPARE AN ITEMIZED SCHEDULE OF TREES TO BE INSTALLED IN ACCORDANCE WITH THIS LANDSCAPE PLAN. THIS SCHEDULE SHALL BE REVIEWED BY CURRITUCK COUNTY AND THE ENGINEER TO DETERMINE COMPLIANCE BEFORE ORDERING AND INSTALLATION. ALTERNATE TREES AND SPECIFICATIONS MAY BE PRESENTED FOR REVIEW AND APPROVAL.</li> </ul>	LANDSCAPING, SIGNAGE LANDSCAPING, SIGNAGE AND BUFFERING PLAN THIS DOCUMENT IS THE SOLE PROPERTY OF BPG, INC. OF KITTY HAWK, NORTH CAROLINA. THE REPRODUCTION, IN WHOLE OR PART, OR THE MODIFICATION OF ANY DETAIL OR DESIGN IS NOT TO BART, OR THE MODIFICATION OF ANY DETAIL OR DESIGN IS NOT TO BE MADE WITHOUT THE EXPRESS WRITTEN CONSENT OF MARK S. BISSELL, PRINCIPAL OF BPG, INC., COPYRIGHT 2005.
	PROJECT: ALGONQUIN POPLAR BRANCH TOWNSHIP CURRITUCK COUNTY NORTH CAROLINA NORTH COUNTY NORTH CAROLINA CONSTRUCTION DRAWINGS
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![](_page_7_Figure_0.jpeg)

![](_page_8_Figure_0.jpeg)

![](_page_9_Figure_0.jpeg)

![](_page_10_Figure_1.jpeg)

SCHEDULE CONSIDERATION First land-disturbing activity-Stabilize temporary vegetation as construction takes place.

Install principal basins after construction site is accessed. Install additional traps and barriers as needed during grading.

Install key practices after principal sediments traps and before land grading. Install additional runoff-control conveyance measures during grading.

Where necessary, stabilize stream banks as early as possible. Install principal runoff-control measures. Install remainder materials into fill slopes.

Begin major clearing and grading after principal & key runoff-control measures area installed. Clear borrow & disposal areas as needed. Install additional control measures as grading progresses. Mark trees & buffer areas for preservation.

Apply temporary or permanent stabilization measures immediately on all disturbed areas where work is delayed or complete.

Install necessary erosion & sedimentation control practices as work takes place. Stabilize all open areas, including borrow & spoil areas. Remove & stabilize all

and spoil areas.

TEMPORARY STOCKPILE OF ED: OVERBURDEN AND SUITABLE MATERIALS TYPICAL STOCKPILE SECTION NOT TO SCALE STOCKPILES HAVING 2:1 SIDE SLOPES ARE CONSIDERED CRITICAL AREAS. SEE STABILIZATION NOTES FOR TEMPORARY AND PERMANENT STABILIZATION REQUIREMENTS. LEVEL GRADE AREA AND STABILIZE AT COMPLETION

![](_page_10_Figure_11.jpeg)

SMOOTH THE AREA TO BLEND WITH ADJOINING AREAS AND STABILIZE PROPERLY.

![](_page_10_Figure_18.jpeg)

![](_page_10_Figure_19.jpeg)

PART III SELF-INSPECTION, RECORDKEEPING AND REPORTING			PART III SELF-INSPECTION, RECORDKEEPING AND REPORTING				
ECTION A: SELF elf-inspections elow. When ac ersonnel to be which it is safe t reater than 1.0 erformed upon	<b><u>-INSPECTION</u></b> are required duri dverse weather of in jeopardy, the i o perform the ins inch occurs outsi the commencem	ng normal business hours in accordance with the table site conditions would cause the safety of the inspection nspection may be delayed until the next business day on pection. In addition, when a storm event of equal to or de of normal business hours, the self-inspection shall be nent of the next business day. Any time when inspections	SECTION B: RECORDKEEPING 1. E&SC Plan Documentation The approved E&SC plan as well as any approved E&SC plan must be kept up-to- The following items pertaining to the E&SC inspection at all times during normal busing	oproved deviation shall be kept on the site. The date throughout the coverage under this permi SC plan shall be kept on site and available for iness hours.			
vere delayed sh	all be noted in th	e Inspection Record.	Item to Document	Documentation Requirements			
Inspect	Frequency (during normal business hours)	Inspection records must include:	(a) Each E&SC measure has been installed and does not significantly deviate from the locations, dimensions and relative elevations	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			
(1) Rain gauge maintained in good working order	Dany	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 un- attended days (and this will determine if a site inspection is needed). Days on which no rainfall occurred shall be recorded as	shown on the approved E&SC plan.	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.			
(2) E&SC Measures	At least once per 7 calendar days and within 24	<ul> <li>approved by the Division.</li> <li>1. Identification of the measures inspected,</li> <li>2. Date and time of the inspection,</li> <li>3. Name of the person performing the inspection,</li> </ul>	(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.			
(3) Stormwater	hours of a rain event ≥ 1.0 inch in 24 hours At least once per	<ol> <li>Indication of whether the measures were operating properly,</li> <li>Description of maintenance needs for the measure,</li> <li>Description, evidence, and date of corrective actions taken.</li> <li>Identification of the discharge outfalls inspected,</li> </ol>	(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.			
discharge butfalls (SDCs)	7 calendar days and within 24 hours of a rain event $\geq$ 1.0 inch in	<ol> <li>Date and time of the inspection,</li> <li>Name of the person performing the inspection,</li> <li>Evidence of indicators of stormwater pollution such as oil sheen, floating or suspended solids or discoloration,</li> </ol>	(d) The maintenance and repair requirements for all E&SC measures have been performed.	Complete, date and sign an inspection report.			
4) Perimeter of lite	At least once per 7 calendar days and within 24	<ul> <li>5. Indication of Visible sediment leaving the site,</li> <li>6. Description, evidence, and date of corrective actions taken.</li> <li>If visible sedimentation is found outside site limits, then a record of the following shall be made:</li> <li>1. Actions taken to clean up or stabilize the sediment that has left</li> </ul>	(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.			
	hours of a rain event ≥ 1.0 inch in 24 hours	<ul> <li>the site limits,</li> <li>2. Description, evidence, and date of corrective actions taken, and</li> <li>3. An explanation as to the actions taken to control future releases.</li> </ul>	2. Additional Documentation to be Kept on In addition to the E&SC plan documents a site and available for inspectors at all time	<b>Site</b> bove, the following items shall be kept on the es during normal business hours, unless the			
(5) Streams or wetlands onsite or offsite (where accessible)	At least once per 7 calendar days and within 24 hours of a rain event $\geq$ 1.0 inch in 24 hours	<ul> <li>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:</li> <li>1. Description, evidence and date of corrective actions taken, and</li> <li>2. Records of the required reports to the appropriate Division Begional Office per Part III. Section C. Item (2)(a) of this permit.</li> </ul>	Division provides a site-specific exemption this requirement not practical: (a) This General Permit as well as the Ce	n based on unique site conditions that make rtificate of Coverage, after it is received.			
(6) Ground stabilization measures	After each phase of grading	<ol> <li>Regional once per Part II, section C, item (2)(a) of this permit.</li> <li>The phase of grading (installation of perimeter E&amp;SC measures, clearing and grubbing, installation of storm drainage facilities, completion of all land-disturbing activity, construction or redevelopment, permanent ground cover).</li> <li>Documentation that the required ground stabilization measures have been provided within the required timeframe or an assurance that they will be provided as</li> </ol>	<ul> <li>(b) Records of inspections made during the record the required observations on the Division or a similar inspection form the electronically-available records in lies shown to provide equal access and units and the provide equal access and units access and units and the provide equal access and units access and units access access and units access access and units access acce</li></ul>	he previous twelve months. The permittee sha the Inspection Record Form provided by the hat includes all the required elements. Use of u of the required paper copies will be allowed if tility as the hard-copy records.			
NOTE: The rair	n inspection reset	soon as possible. s the required 7 calendar day inspection requirement.	All data used to complete the e-NOI and a of three years after project completion an	ll inspection records shall be maintained for a dimade available upon request. [40 CFR 122.4]			

## PART II, SECTION G, ITEM (4) DRAW DOWN OF SEDIMENT BASINS FOR MAINTENANCE OR CLOSE OUT

Sediment basins and traps that receive runoff from drainage areas of one acre or more shall use outlet structures that withdraw water from the surface when these devices need to be drawn down for maintenance or close out unless this is infeasible. The circumstances in which it is not feasible to withdraw water from the surface shall be rare (for example, times with extended cold weather). Non-surface withdrawals from sediment basins shall be allowed only when all of the following criteria have been met:

- (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

## NCG01 SELF-INSPECTION, RECORDKEEPING AND REPORTING

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SELF-INSPECTION,	RECORDKEEPING	AND REPORTING

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(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 C: REPORTING**

- **1. Occurrences that Must be Reported**
- (b) Oil spills if:
  - They are 25 gallons or more,
- (Ref: 40 CFR 302.4) or G.S. 143-215.85.
- environment.

### 2. Reporting Timeframes and Other Requirements

858-0368.

Occurrence	Re	epo
(a) Visible sediment	•	W
deposition in a	٠	W
stream or wetland		se
		Di
		са
	•	lf 1
		re
		m
		de
		wi
(b) Oil spills and	٠	W
release of		sh
hazardous		lo
substances per Item		
1(b)-(c) above		
(c) Anticipated	٠	A
bypasses [40 CFR		Th
122.41(m)(3)]		ef
(d) Unanticipated	•	W
bypasses [40 CFR	•	W
122.41(m)(3)]		qu
(e) Noncompliance	٠	W
with the conditions	•	W
of this permit that		no
may endanger		ind
health or the		be
environment[40		со
CFR 122.41(I)(7)]		pr
	٠	Di
		са

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sections of th permittee sh delegated au may not appl	g the details a g considered c ne NCG01 Con all comply wit ithority having ly depending c	and specifications compliant with the struction General th the Erosion and g jurisdiction. All d on site conditions	on t Gro Per Sed etai and	his plan sheet will result in the constru- bund Stabilization and Materials Handl mit (Sections E and F, respectively). The iment Control plan approved by the ls and specifications shown on this she the delegated authority having jurisdi
SECTION E: O	ROUND STAE	BILIZATION		
	Re	equired Ground St	tabil +hic	ization Timeframes
Site Area	Description	many calendar days after ceasir land disturbance	ng	Timeframe variations
(a) Perime swales perime	eter dikes, , ditches, and eter slopes	7		None
(b) High Q (HQW)	uality Water Zones	7		None
(c) Slopes 3:1	steeper than	7		If slopes are 10' or less in length and a 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 -7 days for perimeter dikes, swales, ditches, perimeter slopes and HQW Zones -10 days for Falls Lake Watershed
	with slopes			-7 days for perimeter dikes, swales,
<b>Note:</b> After the ground stabil practicable b activity. Tem	than 4:1 he permanent lization shall b ut in no case l porary groun	14 t cessation of cons be converted to pe longer than 90 cal d stabilization sha	struc erma enda III be	-10 days for Falls Lake Watershed unl there is zero slope ction activities, any areas with tempora ment ground stabilization as soon as ar days after the last land disturbing e maintained in a manner to render the
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Note: After t flatter t ground stabil practicable b activity. Terr surface stable GROUND STA Stabilize the techniques in	than 4:1 he permanent lization shall b ut in no case l porary groun e against acce ABILIZATION S ground suffici the table bel	14 t cessation of cons be converted to pe longer than 90 cal d stabilization sha elerated erosion un SPECIFICATION ently so that rain low: ilization	struc erma enda II be ntil p will	-10 days for Falls Lake Watershed unl there is zero slope ction activities, any areas with tempora ment ground stabilization as soon as ar days after the last land disturbing e maintained in a manner to render the permanent ground stabilization is achi- not dislodge the soil. Use one of the Permanent Stabilization
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flatter t flatter t ground stabil practicable b activity. Terr surface stable <b>GROUND ST/</b> Stabilize the techniques in • Temporary other mulc • Hydroseed	than 4:1 he permanent lization shall b ut in no case l porary groun e against acce ABILIZATION S ground suffici the table bel femporary Stabi grass seed cove thes and tackifie ling	14 t cessation of cons be converted to per longer than 90 cal- d stabilization sha elerated erosion un <b>SPECIFICATION</b> ently so that rain to low: <b>ilization</b> ered with straw or rs	struc erma enda ill be ntil p will • P o • G	-10 days for Falls Lake Watershed unl there is zero slope ction activities, any areas with tempora ment ground stabilization as soon as ar days after the last land disturbing e maintained in a manner to render the permanent ground stabilization is achieved not dislodge the soil. Use one of the Permanent Stabilization ermanent grass seed covered with straw or ther mulches and tackifiers ieotextile fabrics such as permanent soil
Rolled eros	than 4:1 he permanent lization shall k out in no case l porary groun e against acce ABILIZATION S ground suffici n the table bel femporary Stab grass seed cove shes and tackifie ling sion control proc	14 t cessation of cons be converted to pe longer than 90 cal d stabilization sha elerated erosion un <b>SPECIFICATION</b> ently so that rain low: <b>ilization</b> ered with straw or rs	struc erma enda ill be ntil p will will • P o o r	-10 days for Falls Lake Watershed unl there is zero slope ction activities, any areas with tempora inent ground stabilization as soon as ar days after the last land disturbing e maintained in a manner to render the permanent ground stabilization is achie not dislodge the soil. Use one of the Permanent Stabilization ermanent grass seed covered with straw or ther mulches and tackifiers feotextile fabrics such as permanent soil einforcement matting
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### EQUIPMENT AND VEHICLE MAINTENANCE

- 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.
- Collect all spent fluids, store in separate containers and properly dispose as 4. hazardous waste (recycle when possible).
- 5. Remove leaking vehicles and construction equipment from service until the problem has been corrected.
- Bring used fuels, lubricants, coolants, hydraulic fluids and other petroleum products to a recycling or disposal center that handles these materials.

## LITTER, BUILDING MATERIAL AND LAND CLEARING WASTE

- 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.
- On business days, clean up and dispose of waste in designated waste containers.

## PAINT AND OTHER LIQUID WASTE

- 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.
- Contain liquid wastes in a controlled area.
- Containment must be labeled, sized and placed appropriately for the needs of site. 4.
- Prevent the discharge of soaps, solvents, detergents and other liquid wastes from construction sites.

## PORTABLE TOILETS

- 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.
- 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.

### EARTHEN STOCKPILE MANAGEMENT

- 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.
- Protect stockpile with silt fence installed along toe of slope with a minimum offset of 2. five feet from the toe of stockpile.
- Provide stable stone access point when feasible. 3.
- Stabilize stockpile within the timeframes provided on this sheet and in accordance 4. 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.

![](_page_12_Picture_34.jpeg)

![](_page_12_Figure_35.jpeg)

3826

## TABILIZATION AND MATERIALS HANDLING

![](_page_13_Figure_0.jpeg)

ENCROACHMENT AGREEMENT

CURRITUCK COUNTY PRELIMINARY PLAT & USE PERMIT

CURRITUCK COUNTY CONSTRUCTION AUTHORIZATION

N.C.D.O.T.

CURRITUCK COUNTY BOARD OF COMMISSIONERS

CURRITUCK COUNTY PLANNING STAFF

PB 21-21

8/21/2023

# CONSTRUCTION DRAWINGS FOR ALGONQUIN

## A 10 LOT TRADITIONAL RESIDENTIAL SUBDIVISION POPLAR BRANCH TOWNSHIP CURRITUCK COUNTY NORTH CAROLINA

## Sheet List Table

Sheet Title

**COVER SHEET, DEVELOPMENT NOTES & SITE LOCATION EXISTING SITE CONDITIONS MAP** DEVELOPMENT OVERVIEW PLAN GRADING, DRAINAGE AND STORMWATER MANAGEMENT PLAN EROSION AND SEDIMENT CONTROL PLAN WATERMAIN EXTENSION AND WATER SERVICE PLAN LANDSCAPING, SIGNAGE AND BUFFERING PLAN EXISTING INDIAN KETTLE RD. PLAN AND PROFILE PROPOSED INDIAN KETTLE RD. PLAN AND PROFILE ROADWAY, DRAINAGE & TYP. CONSTRUCTION DETAILS **EROSION & SEDIMENT CONTROL CONSTRUCTION NOTES & DETAILS** NCG01 - SELF INSPECTION, RECORD KEEPING & REPORTING NCG01 - GROUND STABILIZATION & MATERIALS HANDLING

![](_page_13_Picture_9.jpeg)

LEGEND ROADWAY CENTERLINE IGHT-OF-WAY ROPERTY BOUNDARY DJOINING PROPERTY LINI EXISTING DITCH CENTERLIN XISTING TREE LINE (APPROXIMAT ROPOSED SWALE W/ FLOW ARROW ROPOSED SWALE HIGH POIN EXISTING GRADE CONTOUR ROPOSED GRADE CONTOU EXISTING SPOT GRADE X 0.00 ROPOSED SPOT GRADE \_\_\_\_\_ EXISTING CULVERT PROPOSED CULVERT PROPOSED DRAINAGE STRUCTURE NO PARKING SIGN CROSSWALK **EROSION CONTROL LEGEND** PROPOSED LIMITS OF DISTURBANCE PROPOSED SILT FENCE PROPOSED STABILIZED CONSTRUCTION ENTRANCE PROPOSED TEMPORARY CHECK DAM UTILITY LEGEND PROPOSED WATER LINE (SIZE AS WI and the second secon NOTED) PROPOSED FIRE HYDRANT (APRX) PROPOSED WATER SERVICE (APRX) PROPOSED VALVE (APRX) PROPOSED BLOW-OFF (APRX) PROPOSED REDUCER (APRX) **PROFILE LEGEND** ---- EXISTING GRADE @ ROAD C/L PROPOSED GRADE @ ROAD C/L PROPOSED WATER LINE (SIZE AS NOTED) PROPOSED HYDRANT ASSEMBLY PROPOSED GATE VALVE PROPOSED REDUCER SOILS LEGEND SOILS LINE INCOLORING INCOMPANY REPORTS INCOMP CnA CONETOE LOAMY SAND Mu MUNDEN LOAMY SAND No NIMMO LOAMY SAND PORTSMOUTH FINE SANDY Pt

LOAM SCS - SOIL SURVEY OF CURRITUCK COUNTY NOTE

EXISTING SITE INFORMATION DESCRIBED HEREON IS BELIEVED TO BE ACCURATE HOWEVER, BPG INC. MAKES NO WARRANTY AS TO THE ACCURACY. IT IS THE CONTRACTORS RESPONSIBILITY TO VERIFY THIS INFORMATION BEFORE RELYING ON IT. THE CONTENT OF THESE DOCUMENTS MAY ALSO INCLUDE TECHNICAL INACCURACIES OR TYPOGRAPHICAL ERRORS. IF SUCH CONDITIONS EXIST, THE CONTRACTOR SHALL CONSULT WITH THE ENGINEER PRIOR TO PROCEEDING WITH THE SCHEDULED WORK AND MAY CONTINUE AFTER AN AUTHORIZATION TO PROCEED HAS BEEN GRANTED

	Bissell Professional Group	Firm License # C-956	2512 North Croatan Highway	Kitty Hawk. North Carolina 27949		PHOTESSIONAL GROUP FAX (252) 261-1760		Engineers, Planners, Surveyors	and Environmental Specialists		
	COVER SHEET, DEVELOPMENT		NOTES & SITE LOCATION			THIS DOCUMENT IS THE SOLE PROPERTY OF BPG, INC. OF KITTY	HAWK, NOKTH CAROLINA. THE REFRODUCTION, IN WHOLE OK	DE MADE WITHOUT THE EVERESS WRITTEN CONSENT OF MADY S	DE MADE WITHOUT THE EATNESS WALLEN CUNSENT OF MAKA S. RISSETT DRINCIPAL OF RDG INC. CODVDICHT 2005		
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## **FINAL DRAWING** NOT RELEASED FOR CONSTRUCTION

SU	RVEY LEGEND
SCM	SET CONCRETE MONUMENT
SIR 💿	SET IRON ROD
EIR	EXISTING IRON ROD
EIP O	EXISTING IRON PIPE
CP o	CALCULATED POINT
M.B.L.	MAXIMUM BUILDING LIMIT
N.T.S.	NOT TO SCALE
P.C.	PLAT CABINET
D.B.	DEED BOOK
SL	SLIDE
SF	SQUARE FEET
AC	ACRES

![](_page_14_Figure_0.jpeg)

![](_page_15_Figure_0.jpeg)

![](_page_16_Figure_1.jpeg)

![](_page_17_Figure_1.jpeg)

![](_page_18_Figure_0.jpeg)

![](_page_19_Figure_0.jpeg)

<ul> <li>CENERAL LANDSCAPING AND BUFFERING NOTES:</li> <li>STREET TREES: STREET TREES SHALL BE PROVIDED IN ACCORDANCE WITH SECTION 6.2.1.K OF THE CURRITUCK UDO AND THIS PLAN.</li> <li>TREES SHALL BE PLANTED ALONG EACH SIDE OF ROADWAYS AS GENERALLY SPECIFIED ON THE LANDSCAPE PLAN.</li> <li>SEE TYPICAL ROADWAY SECTION DETAIL ON SHEET 11</li> <li>TREES SHALL BE PLANTED 35'± FROM CENTERLINE OF THE ROAD</li> <li>TREES SHALL BE CANOPY TYPE PLANTED A MAXIMUM OF 50' O/C. <u>UNDERSTORY</u> TYPE TREES MAY BE SUBSTITUTED AND PLANTED A MAXIMUM OF 30' O/C</li> <li>SEE TREE SPECIES AND PLANTING NOTE BELOW</li> <li>PERIMETER LANDSCAPE BUFFER: <ul> <li>EXISTING TREES AROUND THE PERIMETER OF THE PROPERTY ARE BEING RETAINED TO BUFFER ADJOINING PROPERTIES. AS SHOWN, A 15' PLANTING BUFFER EASEMENT WILL BE PROVIDED FOR MAINTENANCE OF PERIMETER LANDSCAPING</li> </ul> </li> <li>TREE &amp; SHRUB SPECIES AND PLANTING GUIDELINES: ALL TREES AND SHRUBS SHALL BE INSTALLED IN ACCORDANCE WITH THE PLANTING STANDARDS SPECIFIED IN SECTION 3.5 OF THE CURRITUCK COUNTY ADMINISTRATIVE MANUAL AND THIS PLAN.</li> <li><u>CANOPY</u> AND UNDERSTORY TREE SPECIES SHALL BE OF THOSE LISTED UNDER "TABLE 3.4.6: RECOMMENDED PLANTINGS" IN THE SAME MANUAL.</li> <li>TREE SPECIES SHALL BE DIVERSE. A MINIMUM OF (4) DIFFERENT SPECIES OF <u>CANOPY</u> AND <u>UNDERSTORY</u> TREES SHALL BE INSTALLED IN ROUGHLY EQUAL PROPORTIONS.</li> <li>AT INSTALLATION, <u>CANOPY</u> TREES SHALL HAVE A MINIMUM CALIPER OF <u>2 INCHES</u> MEASURED AT 6 INCHES. ABOVE GRADE. EIGHT FOOT HIGH TREES MAY BE PLANTED AS AN ALTERNATIVE.</li> </ul>	Figure 1       Bissell Professional Group         Firm License # C-956       5512 North Croatan Highway         S512 North Cootan Highway       Nith Hawk, North Carolina 27949         PROFESSIONAL GROUp       (252) 261-1760         Engineers, Planner, Surveyors       EAX (252) 261-1760         and Environmental Specialists       Environmental Specialists
<ul> <li>SHRUBS SHALL BE PLANTED AT THE SPACING NOTED ON THE PLANS AND FORM A VISUAL SCREEIN WITH A MIN. MATURE HEIGHT OF 36". SHRUBS SHALL BE EVERGREEN AS NOTED AND BE A MINIMUM OF (3) GALLON SIZE AT PLANTING.</li> <li>MATERIALS SHALL BE OF HIGH-OUALITY NURSERY GRADE.</li> <li>THE USE OF NATIVE, DROUGHT TOLERANT TREES IS ENCOURAGED.</li> <li>A REPUTABLE LANDSCAPE CONTRACTOR OR SUPPLIER SHALL PREPARE AN ITEMIZED SCHEDULE OF TREES TO BE INSTALLED IN ACCORDANCE WITH THIS LANDSCAPE PLAN. THIS SCHEDULE SHALL BE REVIEWED BY CURRITUCK COUNTY AND THE ENGINEER TO DETERMINE COMPLIANCE BEFORE ORDERING AND INSTALLATION. ALTERNATE TREES AND SPECIFICATIONS MAY BE PRESENTED FOR REVIEW AND APPROVAL.</li> </ul>	LANDSCAPING, SIGNAGE LANDSCAPING, SIGNAGE AND BUFFERING PLAN THIS DOCUMENT IS THE SOLE PROPERTY OF BPG, INC. OF KITTY HAWK, NORTH CAROLINA. THE REPRODUCTION, IN WHOLE OR PART, OR THE MODIFICATION OF ANY DETAIL OR DESIGN IS NOT TO BART, OR THE MODIFICATION OF ANY DETAIL OR DESIGN IS NOT TO BE MADE WITHOUT THE EXPRESS WRITTEN CONSENT OF MARK S. BISSELL, PRINCIPAL OF BPG, INC., COPYRIGHT 2005.
	PROJECT: ALGONQUIN POPLAR BRANCH TOWNSHIP CURRITUCK COUNTY NORTH CAROLINA NORTH COUNTY NORTH CAROLINA CONSTRUCTION DRAWINGS
	NOISNE NO

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![](_page_20_Figure_0.jpeg)

![](_page_21_Figure_0.jpeg)

![](_page_22_Figure_0.jpeg)

![](_page_23_Figure_1.jpeg)

SCHEDULE CONSIDERATION First land-disturbing activity-Stabilize temporary vegetation as construction takes place.

Install principal basins after construction site is accessed. Install additional traps and barriers as needed during grading.

Install key practices after principal sediments traps and before land grading. Install additional runoff-control conveyance measures during grading.

Where necessary, stabilize stream banks as early as possible. Install principal runoff-control measures. Install remainder materials into fill slopes.

Begin major clearing and grading after principal & key runoff-control measures area installed. Clear borrow & disposal areas as needed. Install additional control measures as grading progresses. Mark trees & buffer areas for preservation.

Apply temporary or permanent stabilization measures immediately on all disturbed areas where work is delayed or complete.

Install necessary erosion & sedimentation control practices as work takes place. Stabilize all open areas, including borrow & spoil areas. Remove & stabilize all

and spoil areas.

TEMPORARY STOCKPILE OF ED: OVERBURDEN AND SUITABLE MATERIALS TYPICAL STOCKPILE SECTION NOT TO SCALE STOCKPILES HAVING 2:1 SIDE SLOPES ARE CONSIDERED CRITICAL AREAS. SEE STABILIZATION NOTES FOR TEMPORARY AND PERMANENT STABILIZATION REQUIREMENTS. LEVEL GRADE AREA AND STABILIZE AT COMPLETION

![](_page_23_Figure_11.jpeg)

SMOOTH THE AREA TO BLEND WITH ADJOINING AREAS AND STABILIZE PROPERLY.

![](_page_23_Figure_18.jpeg)

![](_page_23_Figure_19.jpeg)

PART III SELF-INSPECTION, RECORDKEEPING AND REPORTING			PART III SELF-INSPECTION, RECORDKEEPING AND REPORTING				
ECTION A: SELF elf-inspections elow. When ac ersonnel to be which it is safe t reater than 1.0 erformed upon	<b><u>-INSPECTION</u></b> are required duri dverse weather of in jeopardy, the i o perform the ins inch occurs outsi the commencem	ng normal business hours in accordance with the table site conditions would cause the safety of the inspection nspection may be delayed until the next business day on pection. In addition, when a storm event of equal to or de of normal business hours, the self-inspection shall be nent of the next business day. Any time when inspections	SECTION B: RECORDKEEPING 1. E&SC Plan Documentation The approved E&SC plan as well as any approved E&SC plan must be kept up-to- The following items pertaining to the E&SC inspection at all times during normal busing	oproved deviation shall be kept on the site. The date throughout the coverage under this permi SC plan shall be kept on site and available for iness hours.			
vere delayed sh	all be noted in th	e Inspection Record.	Item to Document	Documentation Requirements			
Inspect	Frequency (during normal business hours)	Inspection records must include:	(a) Each E&SC measure has been installed and does not significantly deviate from the locations, dimensions and relative elevations	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			
(1) Rain gauge maintained in good working order	Dany	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 un- attended days (and this will determine if a site inspection is needed). Days on which no rainfall occurred shall be recorded as	shown on the approved E&SC plan.	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.			
(2) E&SC Measures	At least once per 7 calendar days and within 24	<ul> <li>approved by the Division.</li> <li>1. Identification of the measures inspected,</li> <li>2. Date and time of the inspection,</li> <li>3. Name of the person performing the inspection,</li> </ul>	(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.			
(3) Stormwater	hours of a rain event ≥ 1.0 inch in 24 hours At least once per	<ol> <li>Indication of whether the measures were operating properly,</li> <li>Description of maintenance needs for the measure,</li> <li>Description, evidence, and date of corrective actions taken.</li> <li>Identification of the discharge outfalls inspected,</li> </ol>	(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.			
discharge butfalls (SDCs)	7 calendar days and within 24 hours of a rain event $\geq$ 1.0 inch in	<ol> <li>Date and time of the inspection,</li> <li>Name of the person performing the inspection,</li> <li>Evidence of indicators of stormwater pollution such as oil sheen, floating or suspended solids or discoloration,</li> </ol>	(d) The maintenance and repair requirements for all E&SC measures have been performed.	Complete, date and sign an inspection report.			
4) Perimeter of lite	At least once per 7 calendar days and within 24	<ul> <li>5. Indication of Visible sediment leaving the site,</li> <li>6. Description, evidence, and date of corrective actions taken.</li> <li>If visible sedimentation is found outside site limits, then a record of the following shall be made:</li> <li>1. Actions taken to clean up or stabilize the sediment that has left</li> </ul>	(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.			
	hours of a rain event ≥ 1.0 inch in 24 hours	<ul> <li>the site limits,</li> <li>2. Description, evidence, and date of corrective actions taken, and</li> <li>3. An explanation as to the actions taken to control future releases.</li> </ul>	2. Additional Documentation to be Kept on In addition to the E&SC plan documents a site and available for inspectors at all time	<b>Site</b> bove, the following items shall be kept on the es during normal business hours, unless the			
(5) Streams or wetlands onsite or offsite (where accessible)	At least once per 7 calendar days and within 24 hours of a rain event $\geq$ 1.0 inch in 24 hours	<ul> <li>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:</li> <li>1. Description, evidence and date of corrective actions taken, and</li> <li>2. Records of the required reports to the appropriate Division Begional Office per Part III. Section C. Item (2)(a) of this permit.</li> </ul>	Division provides a site-specific exemption this requirement not practical: (a) This General Permit as well as the Ce	n based on unique site conditions that make rtificate of Coverage, after it is received.			
(6) Ground stabilization measures	After each phase of grading	<ol> <li>Regional once per Part II, section C, item (2)(a) of this permit.</li> <li>The phase of grading (installation of perimeter E&amp;SC measures, clearing and grubbing, installation of storm drainage facilities, completion of all land-disturbing activity, construction or redevelopment, permanent ground cover).</li> <li>Documentation that the required ground stabilization measures have been provided within the required timeframe or an assurance that they will be provided as</li> </ol>	<ul> <li>(b) Records of inspections made during the record the required observations on the Division or a similar inspection form the electronically-available records in lies shown to provide equal access and units and the provide equal access and units access and units and the provide equal access and units access and units access access and units access access and units access acce</li></ul>	he previous twelve months. The permittee sha the Inspection Record Form provided by the hat includes all the required elements. Use of u of the required paper copies will be allowed if tility as the hard-copy records.			
NOTE: The rair	n inspection reset	soon as possible. s the required 7 calendar day inspection requirement.	All data used to complete the e-NOI and a of three years after project completion an	ll inspection records shall be maintained for a dimade available upon request. [40 CFR 122.4]			

## PART II, SECTION G, ITEM (4) DRAW DOWN OF SEDIMENT BASINS FOR MAINTENANCE OR CLOSE OUT

Sediment basins and traps that receive runoff from drainage areas of one acre or more shall use outlet structures that withdraw water from the surface when these devices need to be drawn down for maintenance or close out unless this is infeasible. The circumstances in which it is not feasible to withdraw water from the surface shall be rare (for example, times with extended cold weather). Non-surface withdrawals from sediment basins shall be allowed only when all of the following criteria have been met:

- (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

## NCG01 SELF-INSPECTION, RECORDKEEPING AND REPORTING

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SELF-INSPECTION,	RECORDKEEPING	AND REPORTING

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(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 C: REPORTING**

- **1. Occurrences that Must be Reported**
- (b) Oil spills if:
  - They are 25 gallons or more,
- (Ref: 40 CFR 302.4) or G.S. 143-215.85.
- environment.

### 2. Reporting Timeframes and Other Requirements

858-0368.

Occurrence	Re	epo
(a) Visible sediment	•	W
deposition in a	٠	W
stream or wetland		se
		Di
		са
	•	lf 1
		re
		m
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		wi
(b) Oil spills and	٠	W
release of		sh
hazardous		lo
substances per Item		
1(b)-(c) above		
(c) Anticipated	٠	A
bypasses [40 CFR		Th
122.41(m)(3)]		ef
(d) Unanticipated	•	W
bypasses [40 CFR	•	W
122.41(m)(3)]		qu
(e) Noncompliance	٠	W
with the conditions	•	W
of this permit that		no
may endanger		ind
health or the		be
environment[40		со
CFR 122.41(I)(7)]		pr
	٠	Di
		са

![](_page_24_Figure_39.jpeg)

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ROJECT NO:

sections of th permittee sha delegated au may not appl	g the details a considered c NCG01 Con all comply wit thority having y depending c	nd specifications ompliant with the struction General h the Erosion and g jurisdiction. All d on site conditions	on t Gro Per Sed etai and	his plan sheet will result in the constru- bund Stabilization and Materials Handl mit (Sections E and F, respectively). The iment Control plan approved by the ls and specifications shown on this she the delegated authority having jurisdi
SECTION E: G	ROUND STAE	BILIZATION		
	Re	equired Ground St	tabil +hic	ization Timeframes
Site Area I	Description	many calendar days after ceasir land disturbance	ng	Timeframe variations
(a) Perime swales, perime	ter dikes, , ditches, and ter slopes	7		None
(b) High Qu (HQW)	uality Water Zones	7		None
(c) Slopes 3:1	steeper than	7		If slopes are 10' or less in length and a 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 -7 days for perimeter dikes, swales, ditches, perimeter slopes and HQW Zones -10 days for Falls Lake Watershed
(a) Areas w	vith slopes	14		-7 days for perimeter dikes, swales,
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### EQUIPMENT AND VEHICLE MAINTENANCE

- 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.
- Collect all spent fluids, store in separate containers and properly dispose as 4. hazardous waste (recycle when possible).
- 5. Remove leaking vehicles and construction equipment from service until the problem has been corrected.
- Bring used fuels, lubricants, coolants, hydraulic fluids and other petroleum products to a recycling or disposal center that handles these materials.

## LITTER, BUILDING MATERIAL AND LAND CLEARING WASTE

- 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.
- On business days, clean up and dispose of waste in designated waste containers.

## PAINT AND OTHER LIQUID WASTE

- 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.
- Contain liquid wastes in a controlled area.
- Containment must be labeled, sized and placed appropriately for the needs of site. 4.
- Prevent the discharge of soaps, solvents, detergents and other liquid wastes from construction sites.

## PORTABLE TOILETS

- 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.
- 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.

### EARTHEN STOCKPILE MANAGEMENT

- 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.
- Protect stockpile with silt fence installed along toe of slope with a minimum offset of 2. five feet from the toe of stockpile.
- Provide stable stone access point when feasible. 3.
- Stabilize stockpile within the timeframes provided on this sheet and in accordance 4. 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.

![](_page_25_Picture_34.jpeg)

![](_page_25_Figure_35.jpeg)

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## TABILIZATION AND MATERIALS HANDLING

![](_page_26_Figure_0.jpeg)

ENCROACHMENT AGREEMENT

CURRITUCK COUNTY PRELIMINARY PLAT & USE PERMIT

CURRITUCK COUNTY CONSTRUCTION AUTHORIZATION

N.C.D.O.T.

CURRITUCK COUNTY BOARD OF COMMISSIONERS

CURRITUCK COUNTY PLANNING STAFF

PB 21-21

8/21/2023

# CONSTRUCTION DRAWINGS FOR ALGONQUIN

## A 10 LOT TRADITIONAL RESIDENTIAL SUBDIVISION POPLAR BRANCH TOWNSHIP CURRITUCK COUNTY NORTH CAROLINA

## Sheet List Table

Sheet Title

**COVER SHEET, DEVELOPMENT NOTES & SITE LOCATION EXISTING SITE CONDITIONS MAP** DEVELOPMENT OVERVIEW PLAN GRADING, DRAINAGE AND STORMWATER MANAGEMENT PLAN EROSION AND SEDIMENT CONTROL PLAN WATERMAIN EXTENSION AND WATER SERVICE PLAN LANDSCAPING, SIGNAGE AND BUFFERING PLAN EXISTING INDIAN KETTLE RD. PLAN AND PROFILE PROPOSED INDIAN KETTLE RD. PLAN AND PROFILE ROADWAY, DRAINAGE & TYP. CONSTRUCTION DETAILS **EROSION & SEDIMENT CONTROL CONSTRUCTION NOTES & DETAILS** NCG01 - SELF INSPECTION, RECORD KEEPING & REPORTING NCG01 - GROUND STABILIZATION & MATERIALS HANDLING

![](_page_26_Picture_9.jpeg)

LEGEND ROADWAY CENTERLINE IGHT-OF-WAY ROPERTY BOUNDARY DJOINING PROPERTY LINI EXISTING DITCH CENTERLIN XISTING TREE LINE (APPROXIMAT ROPOSED SWALE W/ FLOW ARROW ROPOSED SWALE HIGH POIN EXISTING GRADE CONTOUR ROPOSED GRADE CONTOU EXISTING SPOT GRADE X 0.00 ROPOSED SPOT GRADE \_\_\_\_\_ EXISTING CULVERT PROPOSED CULVERT PROPOSED DRAINAGE STRUCTURE NO PARKING SIGN CROSSWALK **EROSION CONTROL LEGEND** PROPOSED LIMITS OF DISTURBANCE PROPOSED SILT FENCE PROPOSED STABILIZED CONSTRUCTION ENTRANCE PROPOSED TEMPORARY CHECK DAM UTILITY LEGEND PROPOSED WATER LINE (SIZE AS WI and the second secon NOTED) PROPOSED FIRE HYDRANT (APRX) PROPOSED WATER SERVICE (APRX) PROPOSED VALVE (APRX) PROPOSED BLOW-OFF (APRX) PROPOSED REDUCER (APRX) **PROFILE LEGEND** ---- EXISTING GRADE @ ROAD C/L PROPOSED GRADE @ ROAD C/L PROPOSED WATER LINE (SIZE AS NOTED) PROPOSED HYDRANT ASSEMBLY PROPOSED GATE VALVE PROPOSED REDUCER SOILS LEGEND SOILS LINE INCOLORING INCOMPANY REPORTS INCOMP CnA CONETOE LOAMY SAND Mu MUNDEN LOAMY SAND No NIMMO LOAMY SAND PORTSMOUTH FINE SANDY Pt

LOAM SCS - SOIL SURVEY OF CURRITUCK COUNTY NOTE

EXISTING SITE INFORMATION DESCRIBED HEREON IS BELIEVED TO BE ACCURATE HOWEVER, BPG INC. MAKES NO WARRANTY AS TO THE ACCURACY. IT IS THE CONTRACTORS RESPONSIBILITY TO VERIFY THIS INFORMATION BEFORE RELYING ON IT. THE CONTENT OF THESE DOCUMENTS MAY ALSO INCLUDE TECHNICAL INACCURACIES OR TYPOGRAPHICAL ERRORS. IF SUCH CONDITIONS EXIST, THE CONTRACTOR SHALL CONSULT WITH THE ENGINEER PRIOR TO PROCEEDING WITH THE SCHEDULED WORK AND MAY CONTINUE AFTER AN AUTHORIZATION TO PROCEED HAS BEEN GRANTED

	Bissell Professional Group	Firm License # C-956	3512 North Creatan Highway	Kitty Hawk. North Caroling 27949	DDALFCOLONIAL CDALLD (252) 261-3266	PHULESSIUNAL GHUUP FAX (252) 261-1760		Engineers, Planners, Surveyors	and Environmental Specialists		
	COVER SHEET, DEVELOPMENT		NOTES & SITE LOCATION			THIS DOCUMENT IS THE SOLE PROPERTY OF BPG, INC. OF KITTY	HAWK, NOKTH CAROLINA. THE REPRODUCTION, IN WHOLE OK	DE MADE WITHOUT THE EVERESS WRITTEN CONSENT OF MADE S	DE MADE WITTOUT THE EAFLASS WALLEN CUNERAL OF MANAAS, RISSETT DRINCIPAL OF RDG INC. CODVDICHT 2005		
PROJECT:	ALGONOLIN							SUNVARIATION DE ANNOS	CONTRACTION INTERIOR		
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## **FINAL DRAWING** NOT RELEASED FOR CONSTRUCTION

SU	RVEY LEGEND
SCM	SET CONCRETE MONUMENT
SIR 💿	SET IRON ROD
EIR	EXISTING IRON ROD
EIP O	EXISTING IRON PIPE
CP o	CALCULATED POINT
M.B.L.	MAXIMUM BUILDING LIMIT
N.T.S.	NOT TO SCALE
P.C.	PLAT CABINET
D.B.	DEED BOOK
SL	SLIDE
SF	SQUARE FEET
AC	ACRES

![](_page_27_Figure_0.jpeg)

![](_page_28_Figure_0.jpeg)

![](_page_29_Figure_1.jpeg)

![](_page_30_Figure_1.jpeg)

![](_page_31_Figure_0.jpeg)

![](_page_32_Figure_0.jpeg)

<ul> <li>CENERAL LANDSCAPING AND BUFFERING NOTES:</li> <li>STREET TREES: STREET TREES SHALL BE PROVIDED IN ACCORDANCE WITH SECTION 6.2.1.K OF THE CURRITUCK UDO AND THIS PLAN.</li> <li>TREES SHALL BE PLANTED ALONG EACH SIDE OF ROADWAYS AS GENERALLY SPECIFIED ON THE LANDSCAPE PLAN.</li> <li>SEE TYPICAL ROADWAY SECTION DETAIL ON SHEET 11</li> <li>TREES SHALL BE PLANTED 35'± FROM CENTERLINE OF THE ROAD</li> <li>TREES SHALL BE PLANTED 35'± FROM CENTERLINE OF THE ROAD</li> <li>TREES SHALL BE CANOPY TYPE PLANTED A MAXIMUM OF 50' O/C. <u>UNDERSTORY</u> TYPE TREES MAY BE SUBSTITUTED AND PLANTED A MAXIMUM OF 30' O/C</li> <li>SEE TREE SPECIES AND PLANTING NOTE BELOW</li> <li>PERIMETER LANDSCAPE BUFFER: <ul> <li>EXISTING TREES AROUND THE PERIMETER OF THE PROPERTY ARE BEING RETAINED TO BUFFER ADJOINING PROPERTIES. AS SHOWN, A 15' PLANTING BUFFER EASEMENT WILL BE PROVIDED FOR MAINTENANCE OF PERIMETER LANDSCAPING</li> </ul> </li> <li>TREE &amp; SHRUB SPECIES AND PLANTING GUIDELINES: ALL TREES AND SHRUBS SHALL BE INSTALLED IN ACCORDANCE WITH THE PLANTING STANDARDS SPECIFIED IN SECTION 3.5 OF THE CURRITUCK COUNTY ADMINISTRATIVE MANUAL AND THIS PLAN.</li> <li><u>CANOPY</u> AND UNDERSTORY TREE SPECIES SHALL BE OF THOSE LISTED UNDER "TABLE 3.4.6: RECOMMENDED PLANTINGS" IN THE SAME MANUAL.</li> <li>TREE SPECIES SHALL BE DIVERSE. A MINIMUM OF (4) DIFFERENT SPECIES OF <u>CANOPY</u> AND <u>UNDERSTORY</u> TREES SHALL BE INSTALLED IN ROUGHLY EQUAL PROPORTIONS.</li> <li>A TINSTALLATION, <u>CANOPY</u> TREES SHALL HAVE A MINIMUM CALIPER OF <u>2 INCHES</u> MEASURED AT 6 INCHES. ABOVE GRADE. EIGHT FOOT HIGH TREES MAY BE PLANTED AS AN ALTERNATIVE.</li> </ul>	Find License       C-956         S512 North Croatan Highway       S512 North Croatan Highway         POPESSIONAL GROUP       Kitty Hawk, North Carolina 27949         Engineers, Planners, Surveyors       C522 261-1760         Engineers, Planners, Surveyors       EAX (252) 261-1760         Engineers, Planners, Surveyors       Environmental Specialists
<ul> <li>PLANIED AS AN ALTERNATIVE.</li> <li>SHRUBS SHALL BE PLANTED AT THE SPACING NOTED ON THE PLANS AND FORM A VISUAL SCREEIN WITH A MIN. MATURE HEIGHT OF 36". SHRUBS SHALL BE EVERGREEN AS NOTED AND BE A MINIMUM OF (3) GALLON SIZE AT PLANTING.</li> <li>MATERIALS SHALL BE OF HIGH-OUALITY NURSERY GRADE.</li> <li>THE USE OF NATIVE, DROUGHT TOLERANT TREES IS ENCOURAGED.</li> <li>A REPUTABLE LANDSCAPE CONTRACTOR OR SUPPLIER SHALL PREPARE AN ITEMIZED SCHEDULE OF TREES TO BE INSTALLED IN ACCORDANCE WITH THIS LANDSCAPE PLAN. THIS SCHEDULE SHALL BE REVIEWED BY CURRITUCK COUNTY AND THE ENGINEER TO DETERMINE COMPLIANCE BEFORE ORDERING AND INSTALLATION. ALTERNATE TREES AND SPECIFICATIONS MAY BE PRESENTED FOR REVIEW AND APPROVAL.</li> </ul>	LANDSCAPING, SIGNAGE LANDSCAPING, SIGNAGE AND BUFFERING PLAN THIS DOCUMENT IS THE SOLE PROPERTY OF BPG, INC. OF KITTY HAWK, NORTH CAROLINA. THE REPRODUCTION, IN WHOLE OR PART, OR THE MODIFICATION OF ANY DETAIL OR DESIGN IS NOT TO BART, OR THE MODIFICATION OF ANY DETAIL OR DESIGN IS NOT TO BE MADE WITHOUT THE EXPRESS WRITTEN CONSENT OF MARK S. BISSELL, PRINCIPAL OF BPG, INC., COPYRIGHT 2005.
	PROJECT: ALGONQUIN POPLAR BRANCH TOWNSHIP CURRITUCK COUNTY NORTH CAROLINA NORTH COUNTY NORTH CAROLINA CONSTRUCTION DRAWINGS
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![](_page_33_Figure_0.jpeg)

![](_page_34_Figure_0.jpeg)

![](_page_35_Figure_0.jpeg)

![](_page_36_Figure_1.jpeg)

SCHEDULE CONSIDERATION First land-disturbing activity-Stabilize temporary vegetation as construction takes place.

Install principal basins after construction site is accessed. Install additional traps and barriers as needed during grading.

Install key practices after principal sediments traps and before land grading. Install additional runoff-control conveyance measures during grading.

Where necessary, stabilize stream banks as early as possible. Install principal runoff-control measures. Install remainder materials into fill slopes.

Begin major clearing and grading after principal & key runoff-control measures area installed. Clear borrow & disposal areas as needed. Install additional control measures as grading progresses. Mark trees & buffer areas for preservation.

Apply temporary or permanent stabilization measures immediately on all disturbed areas where work is delayed or complete.

Install necessary erosion & sedimentation control practices as work takes place. Stabilize all open areas, including borrow & spoil areas. Remove & stabilize all

and spoil areas. MAINTENANCE

TEMPORARY STOCKPILE OF ED: OVERBURDEN AND SUITABLE MATERIALS TYPICAL STOCKPILE SECTION NOT TO SCALE STOCKPILES HAVING 2:1 SIDE SLOPES ARE CONSIDERED CRITICAL AREAS. SEE STABILIZATION NOTES FOR TEMPORARY AND PERMANENT STABILIZATION REQUIREMENTS. LEVEL GRADE AREA AND STABILIZE AT COMPLETION

![](_page_36_Figure_11.jpeg)

COMPACTED EARTH BERM

- SMOOTH THE AREA TO BLEND WITH ADJOINING AREAS AND STABILIZE PROPERLY.

![](_page_36_Figure_18.jpeg)

![](_page_36_Figure_19.jpeg)

	SELF-INSPECTI	PART III ON, RECORDKEEPING AND REPORTING	SELF-INSPECTION, RE	PART III CORDKEEPING AND REPORTING
ECTION A: SELF elf-inspections elow. When ac ersonnel to be /hich it is safe to reater than 1.0 erformed upon	<b>E-INSPECTION</b> are required duri dverse weather of in jeopardy, the i o perform the ins inch occurs outsi the commencem	ng normal business hours in accordance with the table r site conditions would cause the safety of the inspection nspection may be delayed until the next business day on pection. In addition, when a storm event of equal to or de of normal business hours, the self-inspection shall be nent of the next business day. Any time when inspections	SECTION B: RECORDKEEPING 1. E&SC Plan Documentation The approved E&SC plan as well as any a approved E&SC plan must be kept up-to- The following items pertaining to the E&S inspection at all times during normal bus	oproved deviation shall be kept on the site. The date throughout the coverage under this permi SC plan shall be kept on site and available for iness hours.
vere delayed sh	all be noted in th	e Inspection Record.	Item to Document	Documentation Requirements
Inspect	Frequency (during normal business hours)	Inspection records must include:	(a) Each E&SC measure has been installed and does not significantly deviate from the locations, dimensions and relative elevations	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
maintained in good working order	Daily	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 un- attended days (and this will determine if a site inspection is needed). Days on which no rainfall occurred shall be recorded as	shown on the approved E&SC plan.	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.
(2) E&SC Measures	At least once per 7 calendar days and within 24	<ul> <li>approved by the Division.</li> <li>1. Identification of the measures inspected,</li> <li>2. Date and time of the inspection,</li> <li>3. Name of the person performing the inspection,</li> </ul>	(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.
(3) Stormwater	hours of a rain event ≥ 1.0 inch in 24 hours At least once per	<ol> <li>Indication of whether the measures were operating properly,</li> <li>Description of maintenance needs for the measure,</li> <li>Description, evidence, and date of corrective actions taken.</li> <li>Identification of the discharge outfalls inspected,</li> </ol>	(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.
discharge outfalls (SDCs)	7 calendar days and within 24 hours of a rain event $\geq$ 1.0 inch in	<ol> <li>Date and time of the inspection,</li> <li>Name of the person performing the inspection,</li> <li>Evidence of indicators of stormwater pollution such as oil sheen, floating or suspended solids or discoloration,</li> <li>Indication of visible codiment leaving the site</li> </ol>	(d) The maintenance and repair requirements for all E&SC measures have been performed.	Complete, date and sign an inspection report.
(4) Perimeter of site	At least once per 7 calendar days and within 24	<ul> <li>6. Description, evidence, and date of corrective actions taken.</li> <li>If visible sedimentation is found outside site limits, then a record of the following shall be made:</li> <li>1. Actions taken to clean up or stabilize the sediment that has left</li> </ul>	(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.
	hours of a rain event ≥ 1.0 inch in 24 hours	<ul> <li>the site limits,</li> <li>2. Description, evidence, and date of corrective actions taken, and</li> <li>3. An explanation as to the actions taken to control future releases.</li> </ul>	2. Additional Documentation to be Kept on In addition to the E&SC plan documents a site and available for inspectors at all time	<b>Site</b> bove, the following items shall be kept on the es during normal business hours, unless the
(5) Streams or wetlands onsite or offsite (where accessible)	At least once per 7 calendar days and within 24 hours of a rain event $\geq$ 1.0 inch in 24 hours	<ul> <li>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:</li> <li>1. Description, evidence and date of corrective actions taken, and</li> <li>2. Records of the required reports to the appropriate Division Regional Office per Part III. Section C. Item (2)(a) of this permit.</li> </ul>	Division provides a site-specific exemption this requirement not practical: (a) This General Permit as well as the Ce	n based on unique site conditions that make rtificate of Coverage, after it is received.
(6) Ground stabilization measures	After each phase of grading	<ol> <li>Regional Once per Part III, Section C, Item (2)(a) of this permit.</li> <li>The phase of grading (installation of perimeter E&amp;SC measures, clearing and grubbing, installation of storm drainage facilities, completion of all land-disturbing activity, construction or redevelopment, permanent ground cover).</li> <li>Documentation that the required ground stabilization measures have been provided within the required timeframe or an assurance that they will be provided as</li> </ol>	<ul> <li>(b) Records of inspections made during to record the required observations on the Division or a similar inspection form to electronically-available records in lies shown to provide equal access and up and the destined for Three sections.</li> </ul>	he previous twelve months. The permittee sha the Inspection Record Form provided by the that includes all the required elements. Use of u of the required paper copies will be allowed if tility as the hard-copy records.
NOTE: The rair	n inspection reset	soon as possible. s the required 7 calendar day inspection requirement.	All data used to complete the e-NOI and a of three years after project completion an	ll inspection records shall be maintained for a r d made available upon request. [40 CFR 122.4]

## PART II, SECTION G, ITEM (4) DRAW DOWN OF SEDIMENT BASINS FOR MAINTENANCE OR CLOSE OUT

Sediment basins and traps that receive runoff from drainage areas of one acre or more shall use outlet structures that withdraw water from the surface when these devices need to be drawn down for maintenance or close out unless this is infeasible. The circumstances in which it is not feasible to withdraw water from the surface shall be rare (for example, times with extended cold weather). Non-surface withdrawals from sediment basins shall be allowed only when all of the following criteria have been met:

- (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

## NCG01 SELF-INSPECTION, RECORDKEEPING AND REPORTING

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SELF-INSPECTION,	RECORDKEEPING	AND REPORTING

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(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 C: REPORTING**

- **1. Occurrences that Must be Reported**
- (b) Oil spills if:
  - They are 25 gallons or more,
- - (Ref: 40 CFR 302.4) or G.S. 143-215.85.

  - environment.

### 2. Reporting Timeframes and Other Requirements

858-0368.

Occurrence	Re	epo
(a) Visible sediment	•	W
deposition in a	٠	W
stream or wetland		se
		Di
		са
	•	lf 1
		re
		m
		de
		wi
(b) Oil spills and	٠	W
release of		sh
hazardous		lo
substances per Item		
1(b)-(c) above		
(c) Anticipated	٠	A
bypasses [40 CFR		Th
122.41(m)(3)]		ef
(d) Unanticipated	•	W
bypasses [40 CFR	•	W
122.41(m)(3)]		qu
(e) Noncompliance	٠	W
with the conditions	•	W
of this permit that		no
may endanger		ind
health or the		be
environment[40		со
CFR 122.41(I)(7)]		pr
	٠	Di
		са

![](_page_37_Figure_39.jpeg)

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ROJECT NO:

permit delega may no	nenting the details a y being considered on ns of the NCG01 Con tee shall comply wit ted authority having ot apply depending o	and specifications compliant with the struction General th the Erosion and g jurisdiction. All d on site conditions	on this plan sheet will result in the constru Ground Stabilization and Materials Handl Permit (Sections E and F, respectively). The Sediment Control plan approved by the etails and specifications shown on this she and the delegated authority having jurisdi
SECTIC	ON E: GROUND STAE	BILIZATION	
	Re	equired Ground St	abilization Timeframes
Site	Area Description	many calendar days after ceasir land disturbance	Timeframe variations
(a) F	Perimeter dikes, swales, ditches, and perimeter slopes	7	None
(b) H	High Quality Water (HQW) Zones	7	None
(c) S	Slopes steeper than 3:1	7	If slopes are 10' or less in length and not steeper than 2:1, 14 days are allowed
(d) 5	Slopes 3:1 to 4:1	14	-7 days for slopes greater than 50' in length and with slopes steeper than 4 -7 days for perimeter dikes, swales, ditches, perimeter slopes and HQW Zones
(e) A f	Areas with slopes latter than 4:1	14	-10 days for Pails Lake Watershed -7 days for perimeter dikes, swales, ditches, perimeter slopes and HQW Z -10 days for Falls Lake Watershed unl there is zero slope
GROU	ND STABILIZATION S ve the ground suffici ques in the table be	SPECIFICATION iently so that rain low:	will not dislodge the soil. Use one of the
techni		ilinatian	
techni	Temporary Stab	liization	Permanent Stabilization
• Ten	Temporary Stab	ered with straw or	Permanent Stabilization     Permanent grass seed covered with straw or     other mulches and tackifiers
• Ten oth	Temporary Stab nporary grass seed cove er mulches and tackifie droseeding	ered with straw or ers	<ul> <li>Permanent Stabilization</li> <li>Permanent grass seed covered with straw or other mulches and tackifiers</li> <li>Geotextile fabrics such as permanent soil</li> </ul>
• Ten oth • Hyc • Roll	Temporary Stab nporary grass seed cove er mulches and tackifie droseeding led erosion control proc	ered with straw or ers ducts with or	<ul> <li>Permanent Stabilization</li> <li>Permanent grass seed covered with straw or other mulches and tackifiers</li> <li>Geotextile fabrics such as permanent soil reinforcement matting</li> </ul>
• Ten oth • Hyc • Roll with	Temporary Stab nporary grass seed cove er mulches and tackifie droseeding led erosion control pro- hout temporary grass se propriately applied stray	ered with straw or ers ducts with or eed w or other mulch	<ul> <li>Permanent Stabilization</li> <li>Permanent grass seed covered with straw or other mulches and tackifiers</li> <li>Geotextile fabrics such as permanent soil reinforcement matting</li> <li>Hydroseeding</li> <li>Shrubs or other permanent plantings covered</li> </ul>
• Ten oth • Hyc • Roll witt • App • Plas	Temporary Stab nporary grass seed cove er mulches and tackifie droseeding led erosion control pro- hout temporary grass so propriately applied stra- stic sheeting	ered with straw or ers ducts with or eed w or other mulch	<ul> <li>Permanent Stabilization</li> <li>Permanent grass seed covered with straw or other mulches and tackifiers</li> <li>Geotextile fabrics such as permanent soil reinforcement matting</li> <li>Hydroseeding</li> <li>Shrubs or other permanent plantings covered with mulch</li> </ul>
• Ten oth • Hyc • Roll with • App • Plas	Temporary Stab nporary grass seed cove er mulches and tackifie droseeding led erosion control pro- hout temporary grass so propriately applied stra- stic sheeting	ered with straw or ers ducts with or eed w or other mulch	<ul> <li>Permanent Stabilization</li> <li>Permanent grass seed covered with straw or other mulches and tackifiers</li> <li>Geotextile fabrics such as permanent soil reinforcement matting</li> <li>Hydroseeding</li> <li>Shrubs or other permanent plantings covered with mulch</li> <li>Uniform and evenly distributed ground cover sufficient to restrain erosion</li> </ul>
• Ten oth • Hyc • Roll witl • App	Temporary Stab nporary grass seed cove er mulches and tackifie droseeding led erosion control pro- hout temporary grass se propriately applied stra- stic sheeting	ered with straw or ers ducts with or eed w or other mulch	<ul> <li>Permanent Stabilization</li> <li>Permanent grass seed covered with straw or other mulches and tackifiers</li> <li>Geotextile fabrics such as permanent soil reinforcement matting</li> <li>Hydroseeding</li> <li>Shrubs or other permanent plantings covered with mulch</li> <li>Uniform and evenly distributed ground cover sufficient to restrain erosion</li> <li>Structural methods such as concrete, asphalt</li> </ul>
• Ten oth • Hyc • Roll witl • App • Plas	Temporary Stab nporary grass seed cove er mulches and tackifie droseeding led erosion control pro- hout temporary grass se propriately applied stra- stic sheeting	ered with straw or ers ducts with or eed w or other mulch	<ul> <li>Permanent Stabilization</li> <li>Permanent grass seed covered with straw or other mulches and tackifiers</li> <li>Geotextile fabrics such as permanent soil reinforcement matting</li> <li>Hydroseeding</li> <li>Shrubs or other permanent plantings covered with mulch</li> <li>Uniform and evenly distributed ground cover sufficient to restrain erosion</li> <li>Structural methods such as concrete, asphalt retaining walls</li> <li>Rolled erosion control products with grass se</li> </ul>
<ul> <li>Ten oth</li> <li>Hyc</li> <li>Roll with</li> <li>App</li> <li>Plass</li> </ul>	Temporary Stab nporary grass seed cove er mulches and tackifie droseeding led erosion control pro- hout temporary grass so propriately applied stra- stic sheeting	ered with straw or ers ducts with or eed w or other mulch	<ul> <li>Permanent Stabilization</li> <li>Permanent grass seed covered with straw or other mulches and tackifiers</li> <li>Geotextile fabrics such as permanent soil reinforcement matting</li> <li>Hydroseeding</li> <li>Shrubs or other permanent plantings covered with mulch</li> <li>Uniform and evenly distributed ground cover sufficient to restrain erosion</li> <li>Structural methods such as concrete, asphalt retaining walls</li> <li>Rolled erosion control products with grass se</li> </ul>
• Ten oth • Hyc • Rol witl • App • Plas	Temporary Stab nporary grass seed cove er mulches and tackifie droseeding led erosion control pro- hout temporary grass so propriately applied stra- stic sheeting <b>CRYLAMIDES (PAM</b>	ered with straw or ers ducts with or eed w or other mulch <b>S) AND FLOCCULA</b>	<ul> <li>Permanent Stabilization</li> <li>Permanent grass seed covered with straw or other mulches and tackifiers</li> <li>Geotextile fabrics such as permanent soil reinforcement matting</li> <li>Hydroseeding</li> <li>Shrubs or other permanent plantings covered with mulch</li> <li>Uniform and evenly distributed ground cover sufficient to restrain erosion</li> <li>Structural methods such as concrete, asphalt retaining walls</li> <li>Rolled erosion control products with grass se</li> </ul>
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### EQUIPMENT AND VEHICLE MAINTENANCE

- 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.
- Collect all spent fluids, store in separate containers and properly dispose as 4. hazardous waste (recycle when possible).
- 5. Remove leaking vehicles and construction equipment from service until the problem has been corrected.
- Bring used fuels, lubricants, coolants, hydraulic fluids and other petroleum products to a recycling or disposal center that handles these materials.

## LITTER, BUILDING MATERIAL AND LAND CLEARING WASTE

- 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.
- On business days, clean up and dispose of waste in designated waste containers.

## PAINT AND OTHER LIQUID WASTE

- 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.
- Contain liquid wastes in a controlled area.
- Containment must be labeled, sized and placed appropriately for the needs of site. 4.
- Prevent the discharge of soaps, solvents, detergents and other liquid wastes from construction sites.

## PORTABLE TOILETS

- 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.
- 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.

### EARTHEN STOCKPILE MANAGEMENT

- 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.
- Protect stockpile with silt fence installed along toe of slope with a minimum offset of 2. five feet from the toe of stockpile.
- Provide stable stone access point when feasible. 3.
- Stabilize stockpile within the timeframes provided on this sheet and in accordance 4. 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.

![](_page_38_Picture_34.jpeg)

![](_page_38_Figure_35.jpeg)

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## TABILIZATION AND MATERIALS HANDLING