

WILDWOOD PARK BEACH IMPROVEMENTS **100% CONSTRUCTION DOCUMENTS**

CITY OF GREENVILLE PROJECT:####### **TEG PROJECT: 20240120**

GREENVILLE, NC

DRAWING INDEX

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SHEET NAME

COVER

SHEET NO.

L0.0



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		PROJECT TITLE WILDWOOD PARK BEACH IMPROVEMENTS 100% CONSTRUCTION DOCUMENTS 3450 BLUE HERON DR. GREENVILLE, NC 27834 PITT COUNTY SHEET NAME EXISTING CONDITIONS
	SCALE 1"=10'	sheet no.





 Engineering Marchitecture Surveying Architecture Technology Corporate Office 324 Evans Street Greenville, NC 27858 Kesters Street Branch Office 4325 Lake Boone Trail, Suite 311 Raleigh, NC 27607 F 219.784.9330 F 219.784.9331 Mc Engineering Lic. No. C-0206 Architectural Lic. No. 50213 Architectural Lic. No. 50213 Architectural Lic. No. C-427										
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SCALE 1"=10'

10' 5' 0'

10'





GRADING & DRAINAGE PLAN SCALE: 1" = 10'-0"

GRADING NOTES

- 1. ALL VEGETATION AND TOPSOIL SHALL BE STRIPPED FROM FILL AREAS PRIOR TO PLACING FILL. ANY QUESTIONABLE OR UNSUITABLE SOIL CONDITIONS SHALL BE BROUGHT TO THE ATTENTION OF THE ENGINEER.
- 2. AFTER STRIPPING TOPSOIL AND PRIOR TO PLACING FILL, IT IS RECOMMENDED THAT ALL BUILDING, PARKING AND DRIVEWAY AREAS BE ROLLED WITH A VIBRATORY ROLLER TO CONSOLIDATE LOOSE SOILS IN THE UPPER SUBGRADE. COMPACTION TEST RESULTS OF AT LEAST 95 PERCENT OF THE STANDARD PROCTOR MAXIMUM DRY DENSITY WILL BE REQUIRED PRIOR TO ENGINEER'S APPROVAL FOR FILL PLACEMENT.
- 3. CONTRACTOR SHALL CONTACT THE ENGINEER AND SCHEDULE A PROOF ROLL FOR SUBGRADE AND WHEN AGGREGATE BASE COURSE HAS BEEN INSTALLED. ALL FILL SHALL BE COMPACTED TO AT LEAST 95% OF THE STANDARD PROCTOR MAXIMUM DRY DENSITY (ASTM D698).
- 4. ALL CULVERT CLEANOUT MUST BE DONE SUCH THAT THE SEDIMENT IS EITHER EXTRACTED OR BLOWN UPSTREAM FOR CLEANUP. UNDER NO CIRCUMSTANCES SHALL SEDIMENT BE BLOWN DOWNSTREAM.
- 5. GRADING CONTRACTOR SHALL TEMPORARY SEED AND MULCH ALL DISTURBED AREAS IN ACCORDANCE WITH THE SPECIFICATIONS WITHIN 14 DAYS OF COMPLETION OF GRADING WORK. UPON COMPLETION OF THE PROJECT, THE GENERAL CONTRACTOR SHALL INSTALL PERMANENT SEEDING AS OUTLINED IN THE SPECIFICATIONS. ALL DRAINAGE PIPES SHALL BE CLEANED BY THE GENERAL CONTRACTOR TO REMOVE ANY SEDIMENTS THAT HAVE ACCUMULATED.
- 6. ALL EXCESS TOPSOIL STRIP MATERIAL TO BE HAULED OFF-SITE AND DISPOSED OF AT AN APPROVED SITE.
- 7. ALL PLANTING AREAS SHALL BE BACKFILLED WITH TOPSOIL & RAKED DOWN, REMOVING ALL CLODS AND ROOTS, AND LEFT READY FOR SEEDING & PLANTING.
- 8. ALL DEWATERING OPERATIONS SHALL BE FILTERED PRIOR TO LEAVING THE SITE.

GRADING LEGEND

- CB CATCH BASIN
- CO CLEAN OUT C.T. CURB TAPER
- EC EDGE OF CONCRETE
- EX. EXISTING
- FE FINISHED ELEVATION FFE FINISH FLOOR ELEVATION

FL FLOW LINE

- FOCB FIBER OPTIC CABLE BOX INV. INVERT
- JB JUNCTION BOX
- LF LINEAR FEET M.E. MATCH EXISTING
- RCP REINFORCED CONCRETE PIPE
- TA TOP OF ASPHALT
- TC TOP OF CURB TSW TOP OF SIDEWALK
- TYP. TYPICAL
- YI YARD INLET
- x 26.00 EX. SPOT ELEVATION _____ 26 _____ EXISTING CONTOUR
- ------- SD ------ EX. STORM DRAIN
- PROPOSED STORM PIPE
- X SILT FENCE
- INTERNET LIMITS OF DISTURBANCE
- PROPOSED CONTOUR



INLET PROTECTION

SET

BID 8

TEG PROJECT NO.

20240120

CLIENT PROJECT NO.

PROJECT TITLE WILDWOOD PARK BEACH

IMPROVEMENTS 100% CONSTRUCTION DOCUMENTS 3450 BLUE HERON DR. GREENVILLE, NC 27834 PITT COUNTY

SHEET NAME

GRADING & DRAINAGE PLAN

SHEET NO.

L2.0

SCALE 1"=10' 10' 5' 0'

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CAA

2407

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NC Architectural Lic. No. 50213

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CITY OF GREENVILLE EROSION NOTES

- SCHEDULING OF A PRECONSTRUCTION CONFERENCE WITH THE ENGINEERING DIVISION IS REQUIRED PRIOR TO INITIATING LAND DISTURBING ACTIVITIES. FOR SCHEDULING PLEASE CALL (252) 329-4467. A 24-HOUR NOTICE IS REQUIRED. NO PERSON MAY INITIATE A LAND DISTURBING ACTIVITY BEFORE NOTIFYING THE CITY OF THE DATE OF LAND DISTURBING ACTIVITY.
- 2. NO LAND DISTURBING ACTIVITY BEYOND THAT REQUIRED TO INSTALL APPROPRIATE EROSION CONTROL MEASURES MAY PROCEED UNTIL EROSION CONTROL MEASURES ARE INSPECTED AND APPROVED BY CITY OF GREENVILLE.
- 3. SEED AND MULCHING OR OTHERWISE PROVIDE GROUND COVER DEVICES OR STRUCTURES SUFFICIENT TO RESTRAIN EROSION FOR ALL EXPOSED SLOPES WITHIN 14 WORKING DAYS OF COMPLETING ANY PHASE OF GRADING.
- 4. CONTRACTOR SHALL INSPECT AND MAINTAIN AS NEEDED ALL EROSION CONTROL DEVICES ON A WEEKLY BASIS AND AFTER EACH 0.5" OVER 24-HOUR PERIOD RAINFALL EVENT. FAILURE TO KEEP EROSION CONTROL DEVICES IN GOOD WORKING ORDER MAY RESULT IN ISSUANCE OF A STOP WORK ORDER OR CIVIL PENALTIES UP TO \$5,000 PER DAY OF VIOLATION. STIES UTILIZING SEDIMENT TRAPS MUST ALSO SPECIFY A MAXIMUM DEPTH OF SEDIMENT PRIOR TO CLEAN OUT.
- 5. THE CITY ENGINEER RESERVES THE RIGHT TO REQUIRE ADDITIONAL EROSION CONTROL MEASURES SHOULD THE PLAN OR ITS IMPLEMENTATION PROVE TO BE INADEQUATE.
- ACCEPTANCE AND APPROVAL OF THIS PLAN IS CONDITIONED UPON YOUR COMPLIANCE WITH FEDERAL AND STATE WATER QUALITY LAWS, REGULATIONS, AND RULES. IN ADDITION, LOCAL CITY AND COUNTY ORDINANCES OR RULES MAY ALSO APPLY TO THIS LAND-DISTURBING ACTIVITY. APPROVAL BY THE CITY DOES NOT SUPERCEDE ANY OTHER PERMIT OR APPROVAL. -PLEASE BE ADVISED OF THE RULES TO PROTECT AND MAINTAIN EXISTING BUFFERS ALONG WATERCOURSES IN THE NEUSE AND TAR RIVER BASINS. THESE RULES ARE ENFORCED BY THE DIVISION OF WATER QUALITY (DWQ). DIRECT ANY QUESTIONS ABOUT THE APPLICABILITY OF THESE RULES TO YOUR PROJECT TO THE REGIONAL WATER QUALITY SUPERVISOR, WASHINGTON REGIONAL OFFICE AT (252) 946-6481.
- 7. ALL DEWATERING OPERATIONS SHALL BE FILTERED PRIOR TO LEAVING THE SITE.
- 8. ALL STREETS SHOULD BE SWEPT AS NEEDED BUT AT LEAST WEEKLY TO CONTROL SEDIMENT FROM LEAVING THE SITE DURING GRADING ACTIVITIES.

NPDES INSPECTION REQUIREMENTS

- 1. MUST KEEP A RAIN GAUGE ON THE PROJECT SITE.
- 2. DEDICATED DEMOLITION AND OTHER WASTE AREAS AND EARTHEN MATERIAL STOCKPILES MUST BE LOCATED AT LEAST 50' FORM STORM DRAINS OR STREAMS UNLESS NO ALTERNATIVE IS FEASIBLE.
- 3. MUST INSPECT ALL EROSION AND SEDIMENT CONTROL MEASURES AT LEAST ONCE A WEEK AND WITHIN 24 HOURS AFTER ANY STORM EVENT GREATER THAN A HALF-INCH (DURING A 24 HOUR PERIOD). MUST TAKE IMMEDIATE CORRECTIVE ACTION FOR ANY DEVICE FAILURE.
- 4. MUST INSPECT ALL OUTLETS WHERE STORMWATER RUNOFF LEAVES THE SITE AND EVALUATE THE EFFECT ON NEARBY STREAMS OR WETLANDS.
- CORRECTIVE ACTION MUST BE TAKEN IF SEDIMENT IS DEPOSITED OFF-SITE OR INTO A STREAM OR WETLAND, OR CAUSES A VISIBLE INCREASE IN TURBIDITY OF ANY WATERBODY.
- 6. MUST KEEP RECORDS OF THESE INSPECTIONS AND ANY CORRECTIVE ACTIONS TAKEN.

SEED BED PREPARATION NOTES:

SCARIFY SOIL TO A DEPTH OF THREE (3) INCHES AND WORK INTO A SATISFACTORY SEED BED BY DISKING, USE OF CULTIPACKERS, HARROWS, DRAGS AND OTHER APPROVED MEANS. 2. PREPARATION OUTLINED ABOVE SHALL NOT BE DONE WHEN THE SOIL IS FROZEN, WET OR OTHERWISE IN AN UNFAVORABLE CONDITION.

BEGIN AND COMPLETE SEEDING OPERATIONS AS OUTLINED AS SOON AS POSSIBLE AFTER FINAL GRADING IS COMPLETED, BUT IN NO EVENT LATER THAN 14 CALENDAR DAYS AFTER COMPLETION OF FINAL GRADING.

THE PROJECT, UNLESS DIRECTED BY THE ARCHITECT/ENGINEER. 5. DISTRIBUTE LIME AND FERTILIZER, UNIFORMLY OVER SEED BED AND HARROW, RAKE, OR OTHERWISE WORK SAME

INTO SEED BEDS.

6. DISTRIBUTE SEED UNIFORMLY OVER SEED BED. COVER SEED LIGHTLY AFTER SEEDING.

NO LIME, FERTILIZER, OR SEED SHALL BE APPLIED DURING A STRONG WIND, WHEN SOIL IS WET OR OTHERWISE UNWORKABLE. SHOULD RAIN FOLLOW SEEDING BEFORE ROLLING IS BEGUN, THE BED SHALL NOT BE ROLLED.

TEMPORARY SEEDING

DATE APR 15-AUG 14 AUG 15-APR 14 YEAR ROUND	GERMAN MILLET RYE (GRAIN) FERTILIZER 10-20-20	50 LBS/ACRE 50 LBS/ACRE 400 LBS/ACRE	VEGETATIVE COVER SCHEDULE AND THE SECTION 02110 SECTION 02120 SECTION 02228	

SEEDING AND MULCHING

	ALL ROADWAY AREAS		
MARCH 1 - AU	IGUST 31	SEPTEMBER	1 - FEBRUARY 2
50#	TALL FESCUE	50#	TALL FESCUE
10#	CENTIPEDE	10#	CENTIPEDE
25#	BERMUDAGRASS (HULLED)	35#	BERMUDAGRA
500#	FERTILIZER	500#	FERTILIZER
4000#	LIMESTONE	4000#	LIMESTONE
	WATER AND BORROW LOCA	TIONS	
MARCH 1 - AU	IGUST 31	SEPTEMBER	1 - FEBRUARY 2
75#	TALL FESCUE	75#	TALL FESCUE
25#	BERMUDAGRASS (HULLED)	35#	BERMUDAGRA
500#	FERTILIZER	500#	FERTILIZER
4000#	LIMESTONE	4000#	LIMESTONE

NOTE: 50# BAHIAGRASS MAY BE SUBSTITUTED FOR EITHER CENTIPEDE OR BERMUDAGRASS ONLY UPON ENGINEER'S REQUEST.

SEEDING AND MULCHING OPERATIONS SHALL NOT BEGIN UNTIL ELECTRICAL SERVICE HAS BEEN INSTALLED WITHIN

VEGETATIVE PLAN:

BE IN ACCORDANCE WITH THE SEEDING WING SPECIFICATION SECTIONS: FARING ION & POLLUTION CONTROL N-UP & SEEDING

′ 28

RASS (HULLED)

′ 28

RASS (HULLED)

CONSTRUCTION SEQUENCE

1. OBTAIN AND POST A COPY OF CERTIFICATE OF EROSION AND SEDIMENT CONTROL PLAN APPROVAL NOTIFY THE CITY GREENVILLE PRIOR TO COMMENCING CONSTRUCTION. A PRE-CONSTRUCTION MEETING WILL BE REQUIRED BY THE CITY OF GREENVILLE.

INSTALL ADDITIONAL TEMPORARY EROSION AND SEDIMENT CONTROL DEVICES AS REQUIRED TO BEGIN STAGE 3 CONSTRUCTION. AS CONSTRUCTION PROGRESSES, INSTALL ADDITIONAL EROSION AND SEDIMENT CONTROL DEVICES AS OR AS DIRECTED BY THE ENGINEER.

3. INSTALL SEDIMENT FENCE, TEMPORARY CONSTRUCTION ENTRANCES AND TEMPORARY EROSION CONTROL MEASURES.

4. BEGIN STRIPPING TOPSOIL, CLEARING THE SITE AND DEMOLITION OF SITE IMPROVEMENTS . 5. BEGIN CONSTRUCTION OF NEW UTILITIES AND DEMOLITION OF EXISTING UTILITIES.

INSTALL DRAINAGE PIPE, INLETS AND SWALES AND CONSTRUCT TEMPORARY SEDIMENT BASINS. PROVIDE INLET PROTECTION AND TRANSITION TO SEDIMENT BAGS AS CONSTRUCTION PROGRESSES.

7. INSTALL TEMPORARY SEEDING AS NEEDED THROUGHOUT THE CONSTRUCTION PROJECT. 8. COMPLETE CONSTRUCTION OF THE BUILDING AND SITE IMPROVEMENTS INCLUDING UTILITY TIE-INS, SIDEWALKS, FENCING AND COURTYARD AREAS.

9. INSTALL LANDSCAPING MULCH AND SEED ALL DISTURBED AREAS. ANY SLOPES LEFT EXPOSED WILL, WITHIN 14 CALENDAR DAYS OF COMPLETION OF ANY PHASE OF GRADING, BE DEVICES, OR STRUCTURES SUFFICIENT TO RESTRAIN EROSION.

- 10. UPON SITE STABILIZATION REMOVE ALL TEMPORARY EROSION CONTROL MEASURES.
- 11. TIME OF EXPOSURE IS APPROXIMATELY 24 MONTHS.

MAINTENANCE PLAN

- 1. ALL EROSION AND SEDIMENT CONTROL PRACTICES WILL BE CHECKED FOR STABILITY AND SEPARATION FOLLOWING EVERY RUN-OFF PRODUCING RAINFALL BUT IN NO CASE LESS THAN ONCE EVERY WEEK. ANY NEEDED REPAIRS WILL BE MADE IMMEDIATELY TO MAINTAIN ALL PRACTICES AS DESIGNED.
- 2. SEDIMENT WILL BE REMOVED FROM BEHIND THE SEDIMENT FENCE WHEN IT BECOMES 0.5' DEEP AT THE FENCE. THE SEDIMENT FENCE WILL BE REPAIRED AS NECESSARY TO MAINTAIN A BARRIER.
- 3. SEDIMENT BAGS SHALL BE CHECKED, SEDIMENT AND DEBRIS REMOVED AND REPLACED AS NEEDED BY AS A MINIMUM WEEKLY OR AFTER EACH RAINFALL EVENT.
- 4. ALL SEEDED AREAS WILL BE FERTILIZED, RE-SEEDED AS NECESSARY AND MULCHED ACCORDING TO SPECIFICATION IN THE VEGETATIVE PLAN TO MAINTAIN A VIGOROUS, DENSE VEGETATIVE COVER.
- 5. THE SEDIMENT BASINS WILL BE CLEANED OUT WHEN THE LEVEL OF SEDIMENT REACHES 3' BELOW THE TOP OF THE RISER. GRAVEL WILL BE CLEANED OR REPLACED WHEN THE SEDIMENT POOL NO LONGER DRAINS PROPERTY.
- 6. TEMPORARY EROSION CONTROL ENTRANCES SHALL BE BLADED OFF AND REPAIRED AS NECESSARY WHEN SEDIMENT BUILDS UP DURING CONSTRUCTION ACTIVITIES.
- 7. SEDIMENT WILL BE REMOVED FROM INLET PROTECTION DEVICES WHEN STORAGE CAPACITY HAS BEEN APPROXIMATELY 50% FILLED. GRAVEL WILL BE CLEANED OR REPLACED WHEN THE SEDIMENT POOL NO LONGER DRAINS PROPERTY.

G	ROUND STABILIZATIC)N							
SITE AREA DESCRIPTION	STABILIZATION TIME FRAME	STABILIZATION TIME FRAME EXCEPTIONS							
* PERIMETER DIKES, SWALES, DITCHES AND SLOPES	7 DAYS	NONE							
* HIGH QUALITY WATER (HQW) ZONES	7 DAYS	NONE							
* SLOPES STEEPER THAN 3:1	7 DAYS	IF SLOPES ARE 10' OR LESS IN LENGTH AND ARE NOT STEEPER THAN 2:1, 14 DAYS ARE ALLOWED.							
* SLOPES 3:1 OR FLATTER	14 DAYS	7 DAYS FOR SLOPES GREATER THAN 50 FEET IN LENGTH							
* ALL OTHER AREAS WITH SLOPES FLATTER THAN 4:1	14 DAYS	NONE (EXCEPT FOR PERIMETERS AND HQW ZONES)							



SCALE 1"=10'

10' 5' 0'



GROUND STABILIZATION AND MATERIALS HANDLING PRACTICES FOR COMPLIANCE WITH THE NCG01 CONSTRUCTION GENERAL PERMIT

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.

	Re	auired Ground St	abilization Timeframes
Si	te Area Description	Stabilize within t many calendar days after ceasin land disturbance	this 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
ctiv	ity. Temporary groun	d stabilization shal	rmanent ground stabilization as soon as endar days after the last land disturbing II be maintained in a manner to render the ntil permanent ground stabilization is achieved.
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 tiv arfa RO tabilities T o H R M A P 	ity. Temporary ground ace stable against access UND STABILIZATION S ilize the ground suffici- niques in the table bel Temporary Stab emporary grass seed cover ther mulches and tackifie lydroseeding olled erosion control proce- vithout temporary grass se ppropriately applied stray	d stabilization sha lerated erosion ur SPECIFICATION ently so that rain v ow: ilization ered with straw or rs ducts with or eed w or other mulch	 endar days after the last land disturbing II be maintained in a manner to render the ntil permanent ground stabilization is achieved. will not dislodge the soil. Use one of the Permanent Stabilization 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

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
- 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.

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.
- 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

- 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. 5. 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.
- 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.

EARTHEN STOCKPILE MANAGEMENT

- 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.
- 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.



- lot perimeter silt fence.
- be pumped out and removed from project.
- spills or overflow.
- approving authority.
- 9. products, follow manufacturer's instructions.
- caused by removal of washout.

HERBICIDES, PESTICIDES AND RODENTICIDES

- restrictions
- accidental poisoning.
- 4. Do not stockpile these materials onsite.

HAZARDOUS AND TOXIC WASTE

NCG01 GROUND STABILIZATION AND MATERIALS HANDLING

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. Stormwater accumulated within the washout may not be pumped into or discharged to the storm drain system or receiving surface waters. Liquid waste must

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

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

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.

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

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

1. Store and apply herbicides, pesticides and rodenticides in accordance with label

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

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.

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.

EFFECTIVE: 04/01/19

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	Branch Office 4325 Lake Boone Trail, Suite 311 Raleigh, NC 27607 P: 919.784.9330									
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elow. When ac ersonnel to be which it is safe t	are required dur dverse weather o in jeopardy, the i to perform the ins	ing normal business hours in accordance with the table r site conditions would cause the safety of the inspection inspection may be delayed until the next business day on spection. In addition, when a storm event of equal to or ide of normal business hours, the self-inspection shall be	approved E&SC plan must be kept up-to- The following items pertaining to the E&S	oproved deviation shall be kept on the site. The date throughout the coverage under this permit SC plan shall be kept on site and available for
erformed upor	the commencen	nent of the next business day. Any time when inspections	inspection at all times during normal busi	
	Frequency (during normal	ne Inspection Record. Inspection records must include:	Item to Document(a) Each E&SC measure has been installed and does not significantly deviate from the	Documentation RequirementsInitial and date each E&SC measure on a copy of the approved E&SC plan or complete, date
(1) Rain gauge maintained in good working order	business hours) 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 un- attended days (and this will determine if a site inspection is needed). Days on which no rainfall occurred shall be recorded as	locations, dimensions and relative elevations shown on the approved E&SC plan.	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.
(2) E&SC Measures	At least once per 7 calendar days and within 24	 "zero." The permittee may use another rain-monitoring device approved by the Division. 1. Identification of the measures inspected, 2. Date and time of the inspection, 3. Name of the person performing the inspection, 	(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	 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. 1. Identification of the discharge outfalls inspected, 	(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.
lischarge outfalls (SDOs)	7 calendar days and within 24 hours of a rain event ≥ 1.0 inch in 24 hours	 Date and time of the inspection, Name of the person performing the inspection, Evidence of indicators of stormwater pollution such as oil sheen, floating or suspended solids or discoloration, Indication of visible sediment leaving the site, 	(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 hours of a rain event \geq 1.0 inch in 24 hours	 6. Description, evidence, and date of corrective actions taken. If visible sedimentation is found outside site limits, then a record of the following shall be made: Actions taken to clean up or stabilize the sediment that has left the site limits, Description, evidence, and date of corrective actions taken, and An explanation as to the actions taken to control future 	•	bove, the following items shall be kept on 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 ≥ 1.0 inch in 24 hours	releases.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.	Division provides a site-specific exemption this requirement not practical:	es during normal business hours, unless the n based on unique site conditions that make rtificate of Coverage, after it is received.
6) Ground tabilization neasures	After each phase of grading	 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). Documentation that the required ground stabilization measures have been provided within the required timeframe or an assurance that they will be provided as 	record the required observations on to Division or a similar inspection form to electronically-available records in lieu shown to provide equal access and ut	
NOTE: The rain	n inspection reset	soon as possible.	•	Years Il inspection records shall be maintained for a p d made available upon request. [40 CFR 122.41

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,
- 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, (b) (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,
- (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

(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,

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 Permittees shall report the following occurrences:
- (b) Oil spills if:
 - They are 25 gallons or more,
 - They are less than 25 gallons but cannot be cleaned up within 24 hours,
 - They cause sheen on surface waters (regardless of volume), or
 - They are within 100 feet of surface waters (regardless of volume).
- (Ref: 40 CFR 302.4) or G.S. 143-215.85.
- environment.

2. Reporting Timeframes and Other Requirements

After a permittee becomes aware of an occurrence that must be reported, he shall contact the appropriate Division regional office within the timeframes and in accordance with the other requirements listed below. Occurrences outside normal business hours may also be reported to the Department's Environmental Emergency Center personnel at (800) 858-0368.

Occurrence	Re	port
(a) Visible sediment	•	Witl
deposition in a	•	Witl
stream or wetland		sedi
		Divis
		case
	•	lf th
		rela
		mor
		dete
		with
(b) Oil spills and	•	Witl
release of		shal
hazardous		loca
substances per Item		
1(b)-(c) above		
(c) Anticipated	•	A re
bypasses [40 CFR		The
122.41(m)(3)]		effe
(d) Unanticipated	•	Witl
bypasses [40 CFR	•	Witl
122.41(m)(3)]		qua
(e) Noncompliance	•	Witl
with the conditions	•	Witl
of this permit that		non
may endanger		inclu
health or the		bee
environment[40		cont
CFR 122.41(l)(7)]		prev
	•	Divis
		case

PART III SELF-INSPECTION, RECORDKEEPING AND REPORTING

(a) Visible sediment deposition in a stream or wetland.

(c) Releases of hazardous substances in excess of reportable quantities under Section 311 of the Clean Water Act (Ref: 40 CFR 110.3 and 40 CFR 117.3) or Section 102 of CERCLA

(d) Anticipated bypasses and unanticipated bypasses.

(e) Noncompliance with the conditions of this permit that may endanger health or the

ting Timeframes (After Discovery) and Other Requirements

thin 24 hours, an oral or electronic notification ithin 7 calendar days, a report that contains a description of the iment and actions taken to address the cause of the deposition. ision staff may waive the requirement for a written report on a e-by-case basis.

he stream is named on the <u>NC 303(d) list</u> as impaired for sedimentated causes, the permittee may be required to perform additional nitoring, inspections or apply more stringent practices if staff ermine that additional requirements are needed to assure compliance h the federal or state impaired-waters conditions.

thin 24 hours, an oral or electronic notification. The notification Ill include information about the date, time, nature, volume and ation of the spill or release.

eport at least ten days before the date of the bypass, if possible. report shall include an evaluation of the anticipated quality and ect of the bypass.

thin 24 hours, an oral or electronic notification.

ithin 7 calendar days, a report that includes an evaluation of the ality and effect of the bypass.

thin 24 hours, an oral or electronic notification.

thin 7 calendar days, a report that contains a description of the ncompliance, and its causes; the period of noncompliance, uding exact dates and times, and if the noncompliance has not en corrected, the anticipated time noncompliance is expected to ntinue; and steps taken or planned to reduce, eliminate, and event reoccurrence of the noncompliance. [40 CFR 122.41(l)(6). vision staff may waive the requirement for a written report on a e-by-case basis.

EFFECTIVE: 04/01/19

	Engine	eering	Ë/ GF	RC		JP cture				
NC L	Corporate Office 324 Evans Street Greenville, NC 27858 P: 252.758.3746 F: 252.830.3954 Branch Office 4325 Lake Boone Trail, Suite 311 Raleigh, NC 27607 P: 919.784.9330 F: 919.784.9331 NC Engineering Lic. No. C-0206 NC Architectural Lic. No. 50213 NC Landscape Architectural Lic. No. C-427									
	× 2407 RCHIT									
BY CHK										
DESCRIPTION	100% CD BID SET									
DATE	09.10.2024									
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		202	240120)						
PROJE	CLIENT PROJECT NO. JOB# PROJECT TITLE WILDWOOD PARK BEACH IMPROVEMENTS 100% CONSTRUCTION DOCUMENTS 3450 BLUE HERON DR. GREENVILLE, NC 27834 PITT COUNTY									
	REC	F-INS ORD REPC	KEE	PIN	IG a					
			2.	6)					



MATERIALS:

1. TURBIDITY CURTAIN BARRIERS SHALL BE ORANGE IN COLOR IN ORDER TO ATTRACT THE ATTENTION OF NEARBY BOATERS.

2. THE TURBIDITY CURTAIN FABRIC SHALL MEET THE MINIMUM REQUIREMENTS NOTED IN TABLE 1 ON THIS DRAWING.

3. SEAMS IN THE TURBIDITY CURTAIN FABRIC SHALL BE EITHER VULCANIZE WELDED OR SEWN, AND SHALL DEVELOP THE FULL STRENGTH OF THE FABRIC.

4. FLOATATION DEVICES SHALL BE FLEXIBLE, BUOYANT UNITS CONTAINED IN AN INDIVIDUAL FLOTATION SLEEVE OR COLLAR ATTACHED TO THE CURTAIN. BUOYANCY PROVIDED BY THE FLOATATION UNITS SHALL BE SUFFICIENT TO SUPPORT THE WEIGHT OF THE CURRENT AND MAINTAIN A FREEBOARD OF AT LEAST 3 INCHES ABOVE THE WATER SURFACE LEVEL AS INDICATED IN THE TURBIDITY CURTAIN DETAIL ON THIS DRAWING.

5. LOAD LINES MUST BE FABRICATED INTO THE TOP AND BOTTOM OF ALL FLOATING TURBIDITY CURTAINS. THE TOP LOAD LINE SHALL CONSIST OF WOVEN WEBBING OR VINYL-SHEATHED STEEL CABLE AND SHALL HAVE A BREAK STRENGTH IN EXCESS OF 10,000 POUNDS. THE SUPPLEMENTAL (BOTTOM) LOAD LINE SHALL CONSIST OF A CHAIN INCORPORATED INTO THE BOTTOM HEM OF THE CURTAIN OF SUFFICIENT WEIGHT TO SERVE AS BALLAST TO HOLD THE CURTAIN IN A VERTICAL POSITION. ADDITIONAL ANCHORAGE SHALL BE PROVIDED AS NECESSARY. THE LOAD LINES SHALL HAVE SUITABLE CONNECTING DEVICES WHICH DEVELOP THE FULL BREAKING STRENGTH FOR CONNECTING TO LOAD LINES IN ADJACENT SECTIONS (SEE TURBIDITY CURTAIN DETAIL ON THIS DRAWING)

6. BOTTOM ANCHORS ARE REQUIRED. BOTTOM ANCHORS MUST BE SUFFICIENT TO HOLD THE CURTAIN IN THE SAME POSITION RELATIVE TO THE BOTTOM OF THE WATERCOURSE WITHOUT INTERFERING WITH THE ACTION OF THE CURTAIN. THE ANCHOR MAY DIG INTO THE BOTTOM (GRAPPLING HOOK, PLOW, OR FLUKE TYPE) OR MAY BE WEIGHTED (MUSHROOM TYPE), AND SHOULD BE ATTACHED TO A FLOATING ANCHOR BUOY VIA AN ANCHOR LINE. THE ANCHOR LINE WOULD THEN RUN FROM THE BUOY TO THE TOP LOAD LINE OF THE CURTAIN. THESE LINES MUST CONTAIN ENOUGH SLACK TO ALLOW THE BUOY AND CURTAIN TO FLOAT FREELY WITH A WATER SURFACE ELEVATION INCREASE FROM THE MEAN LOWER LOW WATER (MLLW) ELEVATION TO THE MEAN HIGHER HIGH WATER (MHHW) ELEVATION WITHOUT PULLING THE BUOY OR CURTAIN DOWN. THESE LINES MUST BE CHECKED REGULARLY TO MAKE SURE THEY DO NOT BECOME ENTANGLED WITH DEBRIS. ANCHOR SPACING WILL VARY WITH CURRENT VELOCITY AND POTENTIAL WIND AND WAVE ACTION, THEREFORE THE MANUFACTURER'S RECOMMENDATIONS SHOULD BE FOLLOWED. SEE ORIENTATION OF EXTERNAL ANCHORS AND ANCHOR BUOYS AS SHOWN IN FIGURE 1 ON THIS DRAWING FOR INSTALLATION.

INSTALLATION:

THE CURTAIN SHOULD NEVER TOUCH THE BOTTOM. A MINIMUM 1 FOOT "GAP" SHOULD EXIST BETWEEN THE WEIGHTED LOWER END OF THE SKIRT AND THE BOTTOM AT MLLW. MOVEMENT OF THE LOWER SKIRT OVER THE BOTTOM DUE TO CURRENT OR ELEVATION FLUCTUATION ON THE FLOTATION SYSTEM MAY FAN AND STIR SEDIMENTS ALREADY SETTLED OUT.

2. TURBIDITY CURTAINS SHOULD BE LOCATED PARALLEL TO THE DIRECTION OF FLOW OF A MOVING BODY OF WATER. TURBIDITY CURTAIN SHOULD NOT BE PLACED ACROSS THE MAIN FLOW OF A SIGNIFICANT BODY OF MOVING WATER.

3. WHEN SIZING THE LENGTH OF A FLOATING CURTAIN, ALLOW AN ADDITIONAL 10 TO 20 PERCENT VARIANCE TO STRAIGHT LINE MEASUREMENTS. THIS WILL ALLOW FOR MEASURING ERRORS, MAKE INSTALLING EASIER AND REDUCE STRESS FROM POTENTIAL WAVE ACTION DURING HIGH WINDS.

AN ATTEMPT SHOULD BE MADE TO AVOID AN EXCESSIVE AMOUNT OF JOINTS IN THE CURTAIN. A MINIMUM CONTINUOUS SPAN OF 50 FEET BETWEEN JOINTS IS REQUIRED.

5. FOR STABILITY REASONS, A MAXIMUM SPAN OF 100 FEET BETWEEN JOINTS (ANCHOR OR STAKE LOCATIONS) IS REQUIRED. IF SPACINGS EXCEEDING THIS ARE ALLOWED BY THE MANUFACTURER, DATA SHALL BE SUBMITTED FOR REVIEW.

6. THE ENDS OF THE CURTAIN (BOTH FLOATING UPPER AND WEIGHTED LOWER) SHOULD EXTEND WELL UNDER THE EXISTING STRUCTURE TO BE REMOVED. THE ENDS SHOULD BE SECURED FIRMLY TO FULLY ENCLOSE THE AREA WHERE SEDIMENT MAY ENTER THE WATER.

7. TYPICAL ALIGNMENTS OF TURBIDITY CURTAINS CAN BE SEEN IN FIGURE 2 ON THIS DRAWING. THE NUMBER AND SPACING OF EXTERNAL ANCHORS MAY VARY DEPENDING ON CURRENT VELOCITIES AND POTENTIAL WIND AND WAKE ACTION. THE MANUFACTURER'S RECOMMENDATIONS SHOULD BE FOLLOWED.

8. IN RIVERS OR IN OTHER MOVING WATER, IT IS IMPORTANT TO SET ALL THE CURTAIN ANCHOR POINTS. CARE MUST BE TAKEN TO ENSURE THAT ANCHOR POINTS ARE OF SUFFICIENT HOLDING POWER TO RETAIN THE CURTAIN UNDER THE EXISTING CURRENT CONDITIONS, PRIOR TO PUTTING THE FURLED CURTAIN INTO THE WATER. AGAIN, ANCHOR BUOYS SHOULD BE EMPLOYED ON ALL ANCHORS TO PREVENT THE CURRENT FROM SUBMERGING THE FLOTATION AT THE ANCHOR POINTS.

9. WHEN THE ANCHORS ARE SECURE, THE FURLED CURTAIN SHOULD BE SECURED TO THE UPSTREAM ANCHOR POINT AND THEN SEQUENTIALLY ATTACHED TO EACH NEXT DOWNSTREAM ANCHOR POINT UNTIL THE ENTIRE CURTAIN IS IN POSITION. AT THIS POINT, AND BEFORE UNFURLING, THE "LAY" OF THE CURTAIN SHOULD BE ASSESSED AND ANY NECESSARY ADJUSTMENTS MADE TO THE ANCHORS. FINALLY, WHEN THE LOCATION IS ASCERTAINED TO BE AS DESIRED, THE FURLING LINES SHOULD BE CUT TO ALLOW THE SKIRT TO DROP.

10. ALWAYS ATTACH ANCHOR LINES TO THE FLOATATION DEVICE, NOT TO THE BOTTOM OF THE CURTAIN. THE ANCHORING LINE ATTACHED TO THE FLOATATION DEVICE ON THE DOWNSTREAM SIDE WILL PROVIDE SUPPORT FOR THE CURTAIN. ATTACHING THE ANCHORS TO THE BOTTOM OF THE CURTAIN COULD CAUSE PREMATURE FAILURE OF THE CURTAIN DUE TO THE STRESSES IMPARTED ON THE MIDDLE SECTION OF THE CURTAIN.

CARE SHOULD BE TAKEN TO PROTECT THE SKIRT FROM DAMAGE AS THE TURBIDITY CURTAIN IS DRAGGED FROM THE WATER.

2. IF THE CURTAIN IS TO BE REUSED AT THE SITE, THE AREA SELECTED TO BRING THE CURTAIN ASHORE SHOULD BE FREE OF SHARP ROCKS, BROKEN CEMENT, DEBRIS, ETC SO AS TO MINIMIZE DAMAGE WHEN HAULING THE CURTAIN. ANY DAMAGE TO THE CURTAIN SHALL BE REPAIRED AS SPECIFIED.

3. IF THE CURTAIN HAS A DEEP SKIRT, IT CAN BE FURTHER PROTECTED BY RUNNING A SMALL BOAT ALONG ITS LENGTH WITH A CREW INSTALLING FURLING LINES BEFORE ATTEMPTING TO REMOVE THE CURTAIN FROM THE WATER.

MAINTENANCE

THE CONTRACTOR SHALL BE RESPONSIBLE FOR MAINTENANCE OF THE TURBIDITY CURTAIN FOR THE DURATION OF THE PROJECT IN ORDER TO ENSURE THE CONTINUOUS PROTECTION OF THE WATERWAY.

2. SHOULD REPAIRS TO THE GEOTEXTILE FABRIC BECOME NECESSARY, REPAIR KITS AVAILABLE FROM THE ORIGINAL MANUFACTURER SHALL BE USED. MANUFACTURER'S INSTRUCTIONS MUST BE FOLLOWED TO ENSURE THE ADEQUACY OF THE REPAIR.

3. WHEN THE CURTAIN IS NO LONGER REQUIRED, THE CURTAIN AND RELATED COMPONENTS SHALL BE REMOVED IN SUCH A MANNER AS TO MINIMIZE TURBIDITY. REMAINING SEDIMENT SHALL BE SUFFICIENTLY SETTLED BEFORE **REMOVING THE CURTAIN.**











TURFGRASS SOD NOTES

Certification - The Contractor shall furnish and install local origin. Sod shall be inspected by the official ca purity, overall high quality and freedom from noxious harvest. Sod must meet the published state standards

Material - Sod should be of uniform thickness, approxi and dense and be able to retain its own shape and we strip. Broken pads or torn and uneven ends will not be be harvested, delivered and installed within a period of

Soil Amendments - All fertilizers shall be uniform i equipment. Fertilizer application rates shall be deterr fertilizer shall be uniformly mixed into the top 2 inches

The final determination of the use and application rat materials shall be based upon recommendations of specified.

Fertilizer shall be applied at the rate of 500 pounds per addition, 300 pounds 38-0-0 per acre or equivalent of (equivalent of 50 percent calcium plus magnesium oxid

•			U U	,		
	Soil Texture			Tons/Acre	lbs/1000 s	s
	Clay and clay loam and high or	ganic s	soil	4	180	
	Sandy loam, loam, silt loam			3	135	
	Loamy sand, sand			2	90	
	Loanny bana, bana			-		

Work pulverized dolomitic limestone lime and fertilizer springtooth harrow or other suitable equipment. The fi Continue tillage until a reasonable uniform, fine seedbe

TOPSOIL: Topsoil used shall be fertile agricultural so from drained sites; free of subsoil, stones, clay or im organic content 5 to 7 percent.

All seed and sod areas shall have a minimum 6" of tops

Soil Preparation - Remove from the surface all object such as wire, rocks, tree roots, pieces of concrete, cl traffic has left the soil compacted, the area must be ret

Installation - Place sod strips with snug even joints that following placement to insure solid contact or foot mat order to prevent voids, which would cause drying of the

Slopes - Sod strips shall be laid on the contour, never up on steep slopes, the use of ladders will facilitate

PLANTING NOTES

The Contractor shall furnish plant material shown on his/her authorized representative shall be notified prior PRE-CONSTRUCTION CONFERENCE: Prior to co

shall be held. Attendees shall include Owner, Genera or their designated representatives.

STANDARDS: All plants shall be in accordance with American Association of Nurserymen, Inc. with regard

QUALITY: All plants shall be nursery grown and hardy plants shall be typical of their species or variety and vigorous, well branched and densely foliated when in shall have healthy, well-developed root system.

SUBSTITUTIONS: When plants of a specified kind or s substitutions upon request, if approved by the Project least 10 days prior to the final bid date for consideration

SIZE: All plants shall conform to all measurements sp Consultant.

PRUNING: Each tree and shrub shall be pruned in preserve the natural character of the plant. All dead w

ROOT SYSTEMS: Ball & burlap plants shall be dug v fibrous roots. Container grown stock shall have been sufficiently to hold its soil together firm and whole. No

PROTECTION: Root balls trunks, branches and foliage wind or frost. Plants with broken root balls or excessive

MULCH: Immediately following plant installations all t non-dyed, triple shredded mulch. Ornamental Grasse grade of mulch shall be ½" below adjacent surface or st

ANTI-DESICCANT SPRAY: Trees and when planted in

PLA

Istall Certified Tilffulf Bermuda Sod, grown from certified high quality seed of ial certification. Install only between September and May inclusive. temperature, lightly irrigate the soil immediately prior to laying the sod. On slopes greater than 3 to 1, secure sod to surface soil with wood pegs, wire staples, or split shingles (8 to 10 inches long by 3/4 inch wide). When surface water cannot be diverted from flowing over the face of the slope, provide a capping strip of heavy if versights. Only most, fresh unheated sod should be used. Sod should to the acceptable. Only most, fresh unheated sod should be used. Sod should of 6 flow. On slopes greater than 3 to 1, secure sod to surface soil with wood pegs, wire staples, or split shingles (8 to 10 inches long by 3/4 inch wide). When surface water cannot be diverted from flowing over the face of the slope, provide a capping strip of heavy if or plastic mething, properly secured, along the crown of the slope and degrees to provide extra protection against lifting and undercuting of the sod. The same technique can be used to anchor sod in water-carrying channels and other critical area. Wire staples must be used to anchor netting in channel work. wort is a flow and by discing, harrowing or other approved methods. s of the state agricultural extension service for the variety of turgrass being is per acre or 11 pounds per 1,000 square feet using 10-20-10 or equivalent. In to face we flow of the diversing is not mandatory. Sol the state agricultural extension service for the variety of turgrass being is a table we the state flow of the diversing is not mandatory. Sol the state agricultural extension service for the variety of turgrass being is to face we the state the state agricultural extension service for the variety of turgrass being is a table we the state agricultural extension service for the variety of turgrass. Apply limestone is o							 Engineering Burveying Corporate Office 324 Evans Street Greenville, NC 27858 E 252.758.3746 E 252.758.3746 E 252.830.3954 Darnch Office 4325 Lake Boone Trail, Suite 311 Raleigh, NC 27607 E 191.784.9330 E 191.784.9331 NC Engineering Lic. No. C-0206 NC Architectural Lic. No. 50213 NC Engineering Lic. No. C-0206 NC Architectural Lic. No. 50213 						
for at least the first O mentions and any other results are with a second second second													
f topsoil applied (depth after rolling).													
bjects that would prevent good sod to soil contact and remove all other debris e, clods, lumps or other unsuitable material. Inspect site just before sodding. If e retilled and firmed as above.													
s that are staggered open, spaces invite erosion. Roll or tamp sod immediately mat and soil surface. Do not overlap sod. All joints should be butted tightly in of the roots.													
	 drained sites; free of sul organic content 5 to 7 pe All seed and sod at All groundcover an All tree and shrub the state of the second state of the se	bsoil, rocks, rcent. reas shall have d ornamental beds shall have frees shall have frees shall be ted by Projec shall layout ted on the d the layout of planting at the field condition S: The contra rimental to pl cost, for revier of plants in the quantities tractor shall y to monitor eveloped that must be repl	stones, clay ve a minimul I grasses sha ve a minimu oe staked ar ct Consultant drawings. Pr of planting. / e correct gra ons and final actor shall no lant growth. w and accep the Plant S he plants illu- illustrated of guarantee a the project t appear det laced at no	v or impuriti m 6" of tops all have a n im 18" of top nd guyed a t. iable stakes rior to any All planting ades, alignr All planting otance by th ischedule is istrated on n the drawin during the trimental to	es, plants, weeds and roots; soil applied (depth after rolling) ninimum 12" of topsoil applied psoil applied (depth after rolling as is detailed on the drawing s, the location of all plants an excavation of plant pits or p shall be at the locations indic nent and layout of planting be he Contractor shall notify the piect Consultant in writing of an inented conditions shall include the Project Consultant. for general reference only. Th the drawings. Should there be ngs shall take precedence. aterial for a full year from th guarantee period and notify the plant material. Any plant r	(depth after rolling).	IO; IV of sct or ns sts he n, in, ior js he re all	DESCRIPTION BY CHK	100% CD BID SET	24C	AROUNT ARCHIT		
Symbol Key Quantity Botanical Name (Common	Name) Height	Spread	Caliper	Cont.	Notes			DATE	09.10.2024				
SHRUBS													_
CB 9 Coleonema 'Sunset Gold' (Breath o	f Heaven) 2' min	-	-	#5	Full; Plant @ 18" oc			# A	A				
EK 7 Erica x darleyensis 'Kramer's Rote' (Winter Heath) 1' min - #2 Full; Plant @ 4' oc							REV						
GROUNDCOVER & PERENNIAI	_S							TEG PR	OJECT NO	20240	120		٦
JW 3 Juniperus horizontalis 'Wiltonii' (Blue Rug Juniper) 3" min 4' min - #3 Full; Plant @ 6' oc							CLIENT	PROJECT					
PS 6 Panicum virgatum 'Shenandoah' (Shena Grass)	andoah Switch 3' min	-	-	#1	Full; Plant @ 3' oc					JOB	+		
PF 5 Pennisetum alopecuroides 'Foxtrot' (G Grass)	iant Fountain 5' min	-	-	#3	Full; Plant @ 5' oc				IM	PROVE	ARK BE		
RG 18 Rudbeckia fulgida 'Goldsturm' (Black I	Eyed Susan) 1.5' min	-	-	#1	Full; Plant @ 18" oc			10	34	50 BLUE HE EENVILLE,	, NC 27834		
TB 2640.5 sqft TifTuf Bermuda Sod - _ _ See Turfgrass Sod Notes									PITT COUNTY SHEET NAME				

PLANTING PLAN

L4.0

SHEET NO.

 (\mathbf{T})

SCALE 1"=10' 10' 5' 0'



8'	 	
	<u></u>	<u>BW 4.40</u>

FINISHED GRADE	
8'8'8'5'-115"	TW 12.32
	•
	<u>BW 10.28</u>
	1



Ateglprojects/Civili20240120 COG Wildwood Park Beach Improvements/DWG/SHEETS/LA Sheet Set/20240120_L6.0_SITE_DTLS.ch

