### **Preliminary Subdivision Application**

**Site Review** 

Planning and Development Customer Service Center • One Exchange Plaza, Suite 400 | Raleigh, NC 27601 | 919-996-2500



**INSTRUCTIONS:** This form is used when submitting a Preliminary Subdivision (UDO Section 10.2.5). Please check the appropriate review type and include the plan checklist document. Please email all documents and your preliminary subdivision plans to <u>SiteReview@raleighnc.gov</u>.

DEVELOPMENT OPTIONS (UDO Chapter 2)							
□ Conventional Subdivision □ Compact Development □ Conservation Development							
□ Cottage	Court	□ Flag lot		Frequent Trans	sit Development Option		
NOTE: Subdivisions n	nay require City Council	approval if in a Metro Pa	ark Ove	erlay or Historic Ov	verlay District		
	G	ENERAL INFORMATIC	N				
Scoping/sketch plan c	ase number(s):						
Development name (s	Development name (subject to approval):						
Property Address(es):	Property Address(es):						
Recorded Deed PIN(s):							
Building type(s):	□ Detached House	□ Attached House	□ T	ownhouse	□ Apartment		
General Building	□ Mixed Use Building	□ Civic Building	□ 0	pen Lot	□ Tiny House		

CURRENT PROPERTY OWNER/APPLICANT/DEVELOPER INFORMATION						
Current Property Owr	ner(s) Names:					
Company:		Title:				
Address:						
Phone #:	Email:					
Applicant Name (If dif	ferent from owner. See "who car	apply" in instructions):				
Relationship to owner:	Lessee or contract purchaser	□ Owner's authorized agent □ Easement holder				
Company:	Address:					
Phone #:	Email:					
NOTE: please attach	ourchase agreement or contract,	lease or easement when submitting this form.				
Developer Contact Na	imes:					
Company: Title:						
Address:						
Phone #:	Email:					

#### DEVELOPMENT TYPE + SITE DATE TABLE – ZONING INFORMATION

Gross site acreage:

Zoning districts (if more than one, provide acreage of each):

Overlay district(s):	Inside City Limits?	Yes	No	Historic District/Landmark:	N/A
Conditional Use District (CUD) Case # Z-	Board of Adjustment BOA-	Case #		Design Alternate Case # DA-	

STORMWATER INFORMATION						
Imperious Area on Parcel(s):			Imp	pervious Area for	Compliance (includes right-of-way):	
Existing (sf) Proposed total (sf)			Existing (sf) Proposed total (sf)			
NUMBER OF LOTS AND DENSITY						
# of Detached House Lots: # of Attached Hou		use Lots: # of Townhouse Lots:		# of Townhouse Lots:		
# of Tiny House Lots:	# of Open Lots:			# of Other Lots Mixed Use, Civi	(Apartment, General, c):	
Total # of Lots:	# of Lots: Total # Dwelling Units:					
Proposed density for each zoning district (UDO 1.5.2.F):						

#### SIGNATURE BLOCK

Pursuant to state law (N.C. Gen. Stat. § 160D-403(a)), applications for development approvals may be made by the landowner, a lessee or person holding an option or contract to purchase or lease land, or an authorized agent of the landowner. An easement holder may also apply for development approval for such development as is authorized by the easement.

By submitting this application, the undersigned applicant acknowledges that they are either the property owner or one of the persons authorized by state law (N.C.G.S. 160D-403(a)) to make this application, as specified in the application. The undersigned also acknowledges that the information and statements made in the application are correct and the undersigned understands that development approvals are subject to revocation for false statements or misrepresentations made in securing the development approval, pursuant to N.C. Gen. Stat. § 160D-403(f).

The undersigned indicates that the property owner(s) is aware of this application and that the proposed project described in this application will be maintained in all respects in accordance with the plans and specifications submitted herewith, and in accordance with the provisions and regulations of the City of Raleigh Unified Development Ordinance.

The undersigned hereby acknowledges that, pursuant to state law (N.C.G.S. 143-755(b1), if this permit application is placed on hold at the request of the applicant for a period of six consecutive months or more, or if the applicant fails to respond to comments or provide additional information requested by the City for a period of six consecutive months or more, then the application review is discontinued and a new application is required to proceed and the development regulations in effect at the time permit processing is resumed shall apply to the new application.

Signature:	Date:
Printed Name:	
Signature:	Date:
Printed Name:	

### **PROJECT INFORMATION**

### WESTERN BOULEVARD TOWNHOMES

PLLC

919-827-0864

919-404-8085

106 N ARENDELL AVE ZEBULON, NC 27597 MICHAEL GERMANO

ENGINEER:

NAME OF PROJECT:

TRC 114 EDINBURGH SOUTH DRIVE, SUITE 200 CARY, NC 27511

GERMANO ARCHITECTURE + INTERIORS

ARCHITECT:

### PIN:

DEED REFERENCE: ZONE CLASSIFICATION: SITE AREA: FLOOD ZONE CLASS: WATERSHED CLASSIFICATION: EXISTING IMPERVIOUS AREA: PROPOSED IMPERVIOUS AREA:

PARKING SPACES PROVIDED: BUILDING SETBACK LIMITS OF DISTURBANCE

#### 0784519136 PLAT 1976 SLIDE 340 OX-3 0.46 ACRES ZONE X, FIRM 3720078400K, EFF. 2022 BUSHY BASIN 0.38 ACRES (82.6%) 0.19 PAVED ACRES (41.3%)+ 0.15 BLDG ACRES (32.6%) = 0.34 ACRES (73.9% TOTAL) 4 (1 ADA) 10' 0.46 ACRES

### DRAPER ADEN ASSOCIATES REVIEW

THESE PLANS HAVE BEEN SUBJECTED TO TECHNICAL AND QUALITY REVIEWS BY:

NAME: , P.E.		
PROJECT DESIGNER	SIGNATURE	DATE
NAME: , P.E.		
PROJECT MANAGER	SIGNATURE	DATE
NAME: , P.E.		
QUALITY REVIEWER	SIGNATURE	DATE

# WESTERN BOULEVARD TOWNHOMES

RALEIGH, NORTH CAROLINA



90% CD SET FOR PERMITTING NOT FOR CONSTRUCTION

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Sheet List Table					
Sheet Number	Sheet Title				
CIVIC COVER	COVER SHEET				
C1.0	NOTES				
C1.1	NCG01				
C2.0	EXISTING CONDITIONS PLAN				
C3.0	EROSION CONTROL PLAN				
C4.0	SITE LAYOUT AND LANDSCAPE PLAN				
C5.0	SITE UTILITY PLAN				
C6.0	GRADING PLAN				
C7.0	ESC DETAILS				
C7.1	ESC DETAILS				
C7.2	ESC DETAILS				
C7.3	SITE DETAILS				
C7.4	SITE DETAILS				



### **EROSION CONTROL NOTES**

- 1. THE CONTRACTOR SHALL INSTALL ALL EROSION AND SEDIMENT CONTROL DEVICES AS REQUIRED DURING CONSTRUCTION IN ACCORDANCE WITH THE CURRENT EDITION OF THE NORTH CAROLINA EROSION AND SEDIMENT CONTROL MANUAL. ALL DEVICES
- REFERRED TO IN THESE PLANS CAN BE FOUND IN THE NORTH CAROLINA EROSION AND SEDIMENT CONTROL MANUAL. 2. ALL DISTURBED AREAS SHALL BE PERMANENTLY SEEDED AND MULCHED PER THE NPDES SCHEDULE AFTER REACHING FINAL GRADE. AREAS WHICH HAVE BEEN DISTURBED AND HAVE NOT REACHED FINAL GRADE, BUT WHICH ARE TO REMAIN UNDISTURBED FOR LONGER THAN 14 DAYS ARE TO BE TEMPORARILY SEEDED AND MULCHED PER THE NPDES SCHEDULE. AS UPSTREAM AREAS ARE STABILIZED WITH PERMANENT GROUND COVER, DOWNSTREAM TEMPORARY DEVICES ARE TO BE REMOVED. CONTRACTOR SHALL FOLLOW THE STABILIZATION TIME TABLE INCLUDED IN THIS SET OF DRAWINGS.
- 3. THE CONTRACTOR SHALL INSTALL AND MAINTAIN MEASURES AS NECESSARY TO PREVENT SEDIMENT LEAVING THE PERMITTED WORK AREA AT ALL TIMES. 4. IT IS THE CONTRACTOR'S RESPONSIBILITY TO PERIODICALLY INSPECT ALL SEDIMENT AND EROSION CONTROL DEVICES AND
- ENSURE THAT THEY ARE IN GOOD WORKING ORDER. AT A MINIMUM, ALL DEVICES SHALL BE INSPECTED WEEKLY AND AFTER MAJOR RAINFALL EVENTS GREATER THAN 1 INCH. ANY DEVICE NEEDING REPAIRS SHALL BE REPAIRED WITHIN 24 HOURS. TWELVE MONTHS OF COMPLETE INSPECTION FORMS SHALL BE KEPT ON-SITE AND AVAILABLE FOR INSPECTION AT ALL TIMES. IT IS RECOMMENDED A COPY BE KEPT IN PERMITS BOX. THE CONTRACTOR SHALL INSTALL ADDITIONAL EROSION AND SEDIMENT CONTROL DEVICES IF DURING THE COURSE OF
- CONSTRUCTION THE ENGINEER OR NC DEQ INSPECTOR DETERMINES THAT THEY ARE REQUIRED. SILT SHALL BE REMOVED FROM SILT FENCES WHEN THE SILT REACHES APPROXIMATELY ONE-THIRD THE HEIGHT OF THE
- BARRIER. THE CONTRACTOR SHALL PERIODICALLY TOP DRESS THE CONSTRUCTION ENTRANCE WITH CLEAN STONE. IF THE CONSTRUCTION ENTRANCE FAILS TO REMOVE DIRT FROM THE TIRES OF VEHICLES ENTERING A PUBLIC RIGHT-OF-WAY A WASH RACK SHALL BE INSTALLED AND THE TIRES WASHED. THE CONTRACTOR SHALL BE REQUIRED TO PROVIDE ANY REQUIRED WATER FOR THE WASHING OF TIRES. DIRT TRACKED ONTO THE PUBLIC RIGHT-OF-WAY SHALL BE REMOVED IMMEDIATELY BY THE CONTRACTOR
- ALL EROSION AND SILTATION MEASURES ARE TO BE PLACED PRIOR TO OR AS THE FIRST STEP IN GRADING. ALL STORM AND SANITARY SEWER LINES NOT IN STREETS ARE TO BE MULCHED AND SEEDED PER THE NPDES SCHEDULE AFTER BACKFILL. NO MORE THAN FIVE HUNDRED FEET OF TRENCH IS TO BE OPEN AT ONE TIME.
- 10. ALL TEMPORARY EARTH BERMS, DIVERSIONS, AND SILT DAMS ARE TO BE MULCHED AND SEEDED FOR VEGETATIVE COVER IMMEDIATELY AFTER GRADING. STRAW OR HAY MULCH IS REQUIRED. THE SAME APPLIES TO STOCKPILES ON SITE AS WELL AS SOIL (INTENTIONALLY) TRANSPORTED FROM THE PROJECT SITE.
- 11. ELECTRIC POWER, TELEPHONE, GAS SUPPLY, AND OTHER UTILITY TRENCHES ARE TO BE COMPACTED, SEEDED AND MULCHED IMMEDIATELY AFTER BACKFILL. 12. DURING CONSTRUCTION, ALL STORM SEWER INLETS SHALL BE PROTECTED BY INLET PROTECTION PRACTICES, MAINTAINED AND
- MODIFIED AS REQUIRED BY CONSTRUCTION PROGRESS. 13. ANY DISTURBED AREA NOT PAVED, SODDED, OR BUILT UPON, IS TO BE SEEDED PER THE TEMPORARY AND PERMANENT SEEDING SCHEDULE INCLUDED IN THESE DRAWINGS. MODIFY AS APPLICABLE DEPENDING ON PROPOSED TIME OF CONSTRUCTION.
- 14. ALL DISTURBED GRASSES SHOULD BE SEEDED WITH COMMON BERMUDA OVERSEEDED WITH ANNUAL RYE. 15. CONTRACTOR STAGING AREA(S) SHALL BE RETURNED TO BETTER THAN ORIGINAL CONDITIONS AT THE COMPLETION OF THE WORK.
- 16. THE CONTRACTOR IS RESPONSIBLE FOR INSPECTING AND MAINTAINING ALL EROSION CONTROL MEASURES. ALL DISTURBED AREAS ARE TO DRAIN TO APPROVED SEDIMENT CONTROL MEASURES AT ALL TIMES DURING LAND DISTURBING ACTIVITIES AND DURING SITE DEVELOPMENT UNTIL FINAL STABILIZATION IS ACHIEVED.
- 17. A PRE-CONSTRUCTION MEETING IS REQUIRED PRIOR TO ISSUANCE OF A LAND DISTURBANCE PERMIT. THE CONTRACTOR SHALL SCHEDULE THE MEETING WITH THE NC STATE INSPECTOR ASSIGNED TO THE PROJECT. 18. ALL VEGETATIVE AND STRUCTURAL EROSION AND SEDIMENT CONTROL PRACTICES WILL BE CONSTRUCTED AND MAINTAINED
- ACCORDING TO MINIMUM STANDARDS AND SPECIFICATIONS OF THE NORTH CAROLINA EROSION AND SEDIMENT CONTROL MANUAL AND THE NORTH CAROLINA SEDIMENTATION POLLUTION CONTROL ACT OF 1973.
- 19. AS A CONDITION OF NPDES PERMIT NO. NCG 010000, PERMANENT GROUNDCOVER SHOULD BE PROVIDED FOR ALL DISTURBED AREAS WITHIN 14 CALENDAR DAYS OF TEMPORARILY OR PERMANENTLY SUSPENDING THE LAND DISTURBING ACTIVITY.

### **EROSION CONTROL NARRATIVE**

### PROJECT DESCRIPTION

CONSTRUCTION OF TOWNHOMES AND ASSOCIATED INFRASTRUCTURE.

### EXISTING CONDITIONS THE EXISTING SITE IS DEVELOPED.

DEVELOPMENT IMPACTS

THE DEVELOPMENT IMPACTS TO THE TOPOGRAPHY WILL BE MINIMAL

### THE SITE HAS NO HYDROLOGIC SOIL GROUP

CRITICAL EROSION AREAS

- CARE MUST BE TAKEN TO PREVENT SEDIMENT FROM BEING TRACKED ONTO ADJACENT ROADWAYS
- 2. CARE MUST BE TAKEN TO PREVENT SEDIMENT EXITING THE PROJECT SITE AREA. 3. CARE MUST BE TAKEN TO PREVENT SEDIMENT FROM ENTERING ANY STREAM, DITCH, OR DRAINAGE WAY ON OR ADJACENT TO THE SITE.

#### STOCKPILING

SOME TOPSOIL STOCKPILING IS ANTICIPATED ON-SITE

STRUCTURAL PRACTICES CONSTRUCTION ENTRANCE SILT FENCE SEDIMENT BASIN TEMPORARY DIVERSION DITCH INLET PROTECTION OUTLET PROTECTION

**VEGETATIVE PRACTICES** TOPSOILING TEMPORARY SEEDING

PERMANENT SEEDING MULCHING

MANAGEMENT STRATEGIES

- . CONSTRUCTION WILL BE SEQUENCED SO THAT GRADING OPERATIONS CAN BEGIN AND END AS QUICKLY AS POSSIBLE.
- 2. SEDIMENT TRAPPING MEASURES WILL BE INSTALLED AS A FIRST STEP IN GRADING. 3. THE JOB SUPERINTENDENT SHALL BE RESPONSIBLE FOR THE INSTALLATION AND MAINTENANCE OF ALL EROSION AND SEDIMENT
- CONTROL PRACTICES. 4. AFTER ACHIEVING ADEQUATE STABILIZATION AND UPON APPROVAL OF DEQ EROSION CONTROL INSPECTOR, THE TEMPORARY E&S CONTROLS WILL BE CLEANED UP AND REMOVED.

PERMANENT STABILIZATION THE DISTURBED AREAS WILL BE PERMANENTLY STABILIZED THROUGH THE USE OF IMPERVIOUS SURFACES AND PERMANENT SEEDING.

MANAGEMENT STRATEGIES

I. THE SILT FENCE BARRIER WILL BE CHECKED REGULARLY FOR UNDERMINING OR DETERIORATION OF THE FABRIC. SEDIMENT SHALL BE REMOVED WHEN THE LEVEL OF SEDIMENT DEPOSITION REACHES 1/3 THE WAY TO THE TOP OF THE BARRIER. 2. THE SEDIMENT TRAP AND BASIN SHALL BE INSPECTED AFTER EACH RAIN AND REPAIRS MADE AS NEEDED. SEDIMENT SHALL BE REMOVED AND THE TRAP RESTORED TO ITS ORIGINAL DIMENSIONS WHEN THE SEDIMENT HAS ACCUMULATED TO ONE HALF THE DESIGN DEPTH OF THE TRAP. REMOVED SEDIMENT SHALL BE DEPOSITED IN A SUITABLE AREA AND IN SUCH A MANNER THAT IT WILL NOT ERODE.

### **CONSTRUCTION SEQUENCE**

- 919-791-4200. DEMOLITION PLAN

- IMMEDIATELY AFTER INSTALLATION.
  - BEGIN BUILDING CONSTRUCTION.

  - PROJECT SITE.

  - COMPLETED TASK)

  - FOR MONITORING.

### **GENERAL CONSTRUCTION AND GEOTECHNICAL NOTES**

### ENGINEERED FILL

- DENSITY

- Í
- ROAD SUBGRADE

- SECTION MATERIAL
- COMPACTION EQUIPMENT.
- - GEOTECHNICAL ENGINEER. 95% OR GREATER.

1. EROSION AND SEDIMENT CONTROL (E&SC) PERMIT AND A CERTIFICATE OF COVERAGE (COC) MUST BE OBTAINED BEFORE ANY LAND DISTURBING ACTIVITIES (INCLUDING TIMBERING AND DEMOLITION) OCCUR. (OWNER COMPLETED TASK) A COPY OF THE ESC PERMIT, THE COC, AND A HARD COPY OF THE PLANS MUST BE KEPT ON SITE FOR INSPECTION 2. THE CONTRACTOR SHALL NOTIFY NC STATE ENVIRONMENTAL AFFAIRS PRIOR TO BEGINNING CONSTRUCTION AND CONTACT DEMLR RALEIGH REGIONAL OFFICE AT LEAST 48 HOUR PRIOR TO COMMENCING THE LAND DISTURBING ACTIVITY AT

3. INSTALL TREE PROTECTION FENCE, SILT FENCE, AND SILT FENCE OUTLETS PRIOR TO AN LAND DISTURBING ACTIVITIES. CLEAR ONLY AS NECESSARY TO INSTALL THESE DEVICES AS SPECIFIED ON THE APPROVED PLAN SHEET. INSTALL ALL OTHER EROSION CONTROL MEASURES AS REQUIRED BY NCDEQ INCLUDING SEDIMENT BASINS, BARRIERS, AND DIVERSION DITCHES AS NEEDED. CLEAR ONLY AS NECESSARY TO INSTALL THESE DEVICES. INSTALL DITCH LINERS AS NOTED ON PLANS TO TOP OF BANK. SEED TEMPORARY DIVERSIONS, BERMS, AND BASINS IMMEDIATELY AFTER INSTALLATION. INSTALL COIR WATTLES OR CHECK DAMS IN TEMPORARY DIVERSIONS.BEGIN DEMOLITION ACTIVITIES AS SPECIFIED ON THE

COMPLETE INSTALLATION OF STORM SEWER AS FIRST MEASURE TO DIVERT CLEAN WATER AROUND SITE.PROTECT EACH INSTALLED INLET WITH INLET PROTECTION AFTER INSTALLATION. UTILITY TRENCHES SHALL BE DEWATERED THROUGH SILT

5. SLOPES OF SEDIMENT BASINS WILL BE COVERED WITH A SUITABLE RECP AFTER SEEDING. 6. SEED, MULCH, AND TACK ANY BARE AREAS BETWEEN THE PERIMETER MEASURES AND THE DIVERSIONS AND BASINS

BEGIN GRADING OF PARKING LOT. ALL SLOPES ARE TO BE TRACKED AND ALL DITCHES WILL BE LINED TO TOP OF BANK.

COMPLETE FINE GRADING AND PAVING ACTIVITIES OF PARKING LOT. 10. INSTALL LANDSCAPE IN ACCORDANCE WITH LANDSCAPE PLAN.

11. ONLY AFTER ALL UPSTREAM AREAS HAVE BEEN STABILIZED SEDIMENT BASINS SHALL BE DEWATERED THROUGH SILT BAG AND REMOVED DEQ APPROVAL IS REQUIRED PRIOR TO REMOVAL.

12. ALL EROSION CONTROL MEASURES SHALL BE INSPECTED AND MAINTAINED, IF NEEDED, AT LEAST ONCE PER WEEK AND AFTER EVERY RAINFALL EVENT.

13. STABILIZATION IS REQUIRED WITHIN 14 CALENDAR DAYS OF COMPLETION OF ANY PHASE OF GRADING OR INACTIVITY ON

14. SITE STABILIZATION IS REQUIRED PRIOR TO FINAL APPROVAL OF GRADING PERMIT AND ISSUANCE OF CERTIFICATE OF OCCUPANCY. GRASS UTILIZED AS PERMANENT GROUND COVER MUST BE AT A MOWABLE HEIGHT THAT GENERALLY PROVIDES AT LEAST 80% COVERAGE THROUGH THE SITE, WITH NO LARGE BARE PATCHES OR EVIDENCE OF EROSION. 15. WHEN THE PROJECT IS COMPOLETE, THE PERMITTEE SHALL CONTACT DEMLR TO CLOSE OUT THE E&SC PLAN. (OWNER

16. PER NPDES REQUIREMENTS, A RAIN GAUGE, SELF-INSPECTIONS RECORDS, PERMIT, CERTIFICATE OF COVERAGE, AND S&E PLAN ARE REQUIRED TO BE MAINTAINED ONSITE AND ACCESSIBLE DURING INSPECTION. IT IS RECOMMENDED THAT THESE ITEMS BE PLACED IN A PERMITS BOX AT THE BEGINNING OR ENTRANCE OF THE PROJECT. 17. SELF-INSPECTIONS FOR EROSION AND SEDIMENTATION CONTROL MEASURES ARE TO BE PERFORMED AT LEAST ONCE EVERY SEVEN CALENDAR DAYS AND WITHIN 24 HOURS OF EVERY RAIN EVENT OF GREATER THAN 1 INCH. ANY NEEDED

REPAIRS SHALL BE MADE IMMEDIATELY TO MAINTAIN MEASURES AS DESIGNED. ALL ESC MEASURES SHALL BE MAINTAINED AS SPECIFIED IN THE CONSTRUCTION DETAILS ON THIS PLAN. A RAIN GAUGE SHALL BE INSTALLED AT THE PROJECT SITE

PERIMETER MEASURES MUST BE LEFT IN PLACE UNTIL ALL UPLAND AREAS ARE PERMANENTLY STABILIZED. AFTER SITE IS PERMANENTLY STABILIZED, REMOVE ALL TEMPORARY EROSION CONTROL MEASURES AND PROVIDE PERMANENT SEEDING WHERE TEMPORARY MEASURES HAVE BEEN REMOVED AND GROUND COVER IS NOT ADEQUATE. SEDIMENT BASINS MAY NOT BE REMOVED OR CONVERTED TO PERMANENT SCMS UNTIL ALL UPLAND AREAS ARE PERMANENTLY STABILIZED.

ALL CONTROLLED FILL ZONES ARE TO BE MONITORED BY A FULL TIME GEOTECHNICAL ENGINEERING SERVICES FIRM 2. ENGINEERED FILLS SHALL BE PROPERLY PLACED ACCORDING TO THE RECOMMENDATIONS OF THE GEOTECHNICAL ENGINEER. 3. ALL SUMMARY REPORTS FROM THE GEOTECHNICAL ENGINEER REPRESENTING THE PROJECT MUST STATE HIS PROFESSIONAL OPINION ON THE SATISFACTORILY COMPLETED PHASES OF CONSTRUCTION SUCH AS; SLOPE CUTS, SUBDRAINAGE SYSTEMS, PREPARATION OF SUBGRADES AND COMPACTION OF EARTH FILLS.

4. NO FILLS SHALL HAVE ZONES THAT EXCEED TWO (2) FEET IN ELEVATION WITHOUT CONDUCTING COMPACTION TEST AND **OBTAINING RESULTS OF 95% OR GREATER.** 5. THE GEOTECHNICAL ENGINEER MUST SUBMIT A DETAILED ANALYSIS, ITEMIZING THE FIELD DENSITY TEST RESULTS. THIS

REPORT SHALL BE ACCOMPANIED WITH A COPY OF THE SITE PLAN SHEET AND INDICATE THE TEST LOCATIONS AND ELEVATIONS. THE GEOTECHNICAL ENGINEER MUST PROVIDE ENOUGH DESIGNATED TESTING IN ALL FILL ZONES TO ADEQUATELY EXAMINE AND CERTIFY THE INTEGRITY OF THE FILL.

6. THE GEOTECHNICAL ENGINEER MUST SUBMIT A CERTIFIED BUILDING PAD REPORT FOR EACH FILL PAD LOCATION. THIS REPORT SHALL PROFILE THE FILL MATERIAL PLACEMENT AND PROVIDE THE COMPACTION TEST RESULTS. ALL REPORTS WILL BE ACCOMPANIED BY THE SITE PLAN, INDICATING THE TEST LOCATIONS AND ELEVATIONS. 7. NO BUILDING PADS IN FILL ZONES WILL HAVE STRATUMS EXCEEDING TWO (2) FEET IN ELEVATION WITHOUT TEST VERIFYING

8. THESE GEOTECHNICAL NOTES SHALL IN NO WAY LESSEN THE REQUIREMENTS OF THE SUBMITTED SOILS REPORT

1. INSPECTION AND APPROVAL OF THE SUBGRADE WILL BE REQUIRED PRIOR TO THE PLACEMENT OF THE APPROVED PAVEMENT

2. ANY CLAY DEPOSITS IN THE TOP TWO FEET OF THE SUBGRADE MUST BE REMOVED OR ADDRESSED AS RECOMMENDED BY THE

3. SUBGRADE APPROVAL SHALL BE ACCOMPANIED BY THE SUPPORTING DOCUMENTATION VERIFYING DENSITY TEST RESULTS OF

4. THE ENTIRE SUBGRADE WILL HAVE BEEN PROOFROLLED IN THE PRESENCE OF THE SITE INSPECTOR AND GEOTECHNICAL REPRESENTATIVE. PROOFROLLING SHALL BE A RUBBER TIRE VEHICLE SUCH AS A LOADED TEN (10) TON TRUCK OF APPROVED

5. THE FINAL SUBGRADE SHALL BE APPROVED BY THE GEOTECHNICAL ENGINEER AND SITE INSPECTOR BEFORE PLACEMENT OF PAVEMENT SECTION MATERIALS.

NEW STABILIZATION TIMEFRAMES (EFFECTIVE AUG. 3, 2011)							
SITE AREA DESCRIPTION	STABILIZATION	TIMEFRAME EXCEPTIONS					
PERIMETER DIKES, SWALES, DITCHES, 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 5IN LENGTH.					
ALL OTHER AREA WITH SLOPES FLATTER THAN 4:1	14 DAYS	NONE, EXCEPT FOR PERIMETERS AND HQW ZONES.					

### **GENERAL NOTES**

- DIMENSIONS AT BUILDING ARE TO OUTSIDE FACE, UNLESS OTHERWISE INDICATED.

- DEPARTMENT OF TRANSPORTATION STANDARDS AND SPECIFICATIONS.
- OF THE TOWN OF SANFORD DEPARTMENT OF PUBLIC UTILITIES.
- 10. EXISTING PAVEMENT AND OTHER SURFACES DISTURBED BY CONTRACTOR (WHICH ARE NOT TO BE REMOVED) SHALL BE
- REPAIRED TO LIKE-NEW CONDITION.
- FAILURE TO MAINTAIN DRAINAGE STRUCTURES IN OPERABLE CONDITION.
- 13. PARKING SPACES SHALL BE DELINEATED BY FOUR INCH WIDE WHITE TRAFFIC PAINT.
- NEEDS OF DRIVERS WITHIN THE PARKING AREA AND AT ENTRANCE/EXIT LOCATIONS.
- TO STARTING WORK ON THIS PROJECT.
- INDUSTRY (29 CFR PART 1926). DISCREPANCIES BEFORE COMMENCING OR PROCEEDING WITH WORK.
- 18. DEVIATIONS FROM, OR CHANGES TO THESE PLANS WILL NOT BE ALLOWED.
- NOTIFY THE ENGINEER.

### **GENERAL UTILITY NOTES**

- POSSIBLE FROM THE INFORMATION AVAILABLE. EXISTING CONDITIONS.
- MAKING THESE CHANGES.
- WATER LINE TO BE INSTALLED A MINIMUM OF 3 FEET BELOW GRADE.
- SIDE OF THE POINT OF CROSSING.
- WATER PIPE SHALL BE CENTERED AT THE POINT OF CROSSING.

			F	ERMANENT SEE	DING SCHEDULE FO	R GRASS-LINED CHANN	IFLS
PERMANENT SEEDING SCHEDULE FOR AREAS OTHER THAN CHANNELS							
*THIS PLANTING SC	HEDULE IS ONLY FOR	AREAS NOT DETAILED ON	B	EST	SPECIES	RATE (LB/ACRE)	
PLANTING PLAN - SE COVER.	EE PLANTING PLAN FO	OR SEEDING DETAIL AND GROUN	D A P	UG 15 - OCT 31 OSSIBLE	TALL FESCUE	200	
SPECIES	RATE (LB/AC		F	EB 1 - APR 15			
FLATTER THAN 3:1	100	80		RIOR TO MAY 1 OR A	AFTER AUG 15, ADD 40	LB/ACRE RYE (GRAIN).	
PARTRIDGE PEA	10	10	s	OII AMENDMENTS			
PENSACOLA BAHIAO	GRASS 25	NONE	F	OLLOW RECOMMEN	IDATIONS OF SOIL TES	TS OR APPLY 4,000 LB/ACRE	E GROUND
AFTER AUGUST 15 U	JSE UNSCARIFIED SE	RICEA SEED.	A	GRICULTURAL LIME	STONE AND 1000 LB/AC	CRE 10-10-10 FERTILIZER. O BARE AREAS BETWEEN DIV	PERATE TILLAGE ERSIONS AND
NURSE PLANTS			F	ERIMETER MEASUR	ES SHALL BE SEEDED, E SHALL BE 400 GALLO	MULCHED, AND TACKED TO INS PER ACRE OF ASPHALT	) PREVENT TACKIEIER
PRIOR TO MAY 1 OF	AFTER AUG 15, ADD	40 LB/ACRE RYE (GRAIN).	<u>N</u>	IULCH			
SEEDING DATES			U	SE A ROLLED EROS	ION CONTROL PRODUC	CT TO COVER THE BOTTOM	
	BEST	POSSIBLE	H	IIGHEST CALCULATE	ED DEPTH OF FLOW.	LINING SHOULD EXTEND A	BOVE THE
FALL: AL	JG 25 - SEP 15	AUG 20 - OCT 25	N	IAINTENANCE			
LATE WINTER. FE	D 15 - WAR 21	FEB 1 - APR 15		NSPECT AND REPAIR	R MULCH FREQUENTLY	. REFERTILIZE IN LATE WIN	TER OF THE
FALL IS BEST FOR T OVERSEEDING OF F VERY EFFECTIVE.	ALL FESCUE AND LAT PARTRIDGE PEA OVEF	E WINTER FOR PATRIDGE PEA. RFALL-SEEDED TALL FESCUE IS	C	OF 10-10-10. MOW RE	EGULARLY TO A HEIGHT	T OF 2-4 INCHES.	SE 130 EBRONE
SOIL AMENDMENTS			SPI	ECIFICATIONS			
FOLLOW RECOMME	NDATIONS OF SOIL TH	ESTS OR APPLY 4,000 LB/ACRE					
GROUND AGRICULI	URAL LIMESTONE AN	D 1000 LB/ACRE 10-10-10	1. 2		ED AREAS 6 INCHES DE IF AVAII ARI F	ΞΕΡ.	
			3.	APPLY LIME AND	FERTILIZER UNIFORML	LY AND INCORPORATE INTO	THE TOP 4-6
MULCH				INCHES OF SOIL.	IF A HYDRAULIC SEEDI	ER IS USED, DO NOT MIX SE	ED AND FERTILIZER
APPLY 4,000-5,000 L	B/ACRE GRAIN STRAV E 3·1 OR STEEPER AN	V. ANCHOR BY TACKING WITH	4	MORE THAN 30 MINUTES BEFORE APPLICATION.			
MAINTENANCE				LOOSEN IT IMME	DIATELY BEFORE SEED METHODS. GROOVE C	DING BY RAKING, DISKING, H DR FURROW SLOPES STEEF	ARROWING OR PER THAN 3:1 ON
REFERTILIZE IN THE	SECOND YEAR UNLE	SS GROWTH IS FULLY	_	THE CONTOUR B	EFORE SEEDING.	/ / / / _ / _ / _ /	
ADEQUATE. MAY BE		WICE A YEAR, BUT MOWING IS	5.	5. EVENLY APPLY SEED USING A CYCLONE SEEDER (BROADCAST), DRILL, CULTIPACKER SEEDER OR HYDROSEEDER, SMALL GRAINS SHOULD BE PLANTED NO MORE THAN			
IMMEDIATELY.			2	ONE INCH DEEP, GRASSES AND LEGUMES NO MORE THAN 1/2 INCH DEEP CAN BE THAN			
			6.	LIGHTLY FIRMED	WITH A ROLLER OR CU	JLTIPAKER. HYDROSEEDED	MIXTURES SHOULD
				INCLUDE A WOOL	D FIBER (CELLULOSE) N	NULCH.	
(PS) PEF		SEEDING	7.	IN AREAS NOT HY	DROSEEDED, MULCH	WITH GRAIN STRAW. SEE SI	EEDING
	DOD GRC TO	PER TREADS CREATE DOVES PERPENDICULAR THE SLOPE. SLOPE TRACK	ING				

	DED				e
OTHER THAN		NANENT SEEL			<u>5</u>
DETAILED ON	BEST	5	SPECIES	RATE (LB/ACRE)	
DETAIL AND GROUND	AUG POSS	15 - OCT 31 IBLE	TALL FESCUE	200	
	FEB 1	- APR 15			
ES SLOPES	NURS	E PLANTS			
	PRIOF	R TO MAY 1 OR A	AFTER AUG 15, ADD 40	LB/ACRE RYE (GRAIN).	
80				· · · ·	
10	SOIL	AMENDMENTS			
NONE	FOLL	OW RECOMMEN	DATIONS OF SOIL TEST	IS OR APPLY 4,000 LB/ACRE GF	ROUND
	AGRI EQUI	CULTURAL LIME PMENT ACROSS	STONE AND 1000 LB/AC THE WATERWAY.ALL B	CRE 10-10-10 FERTILIZER. OPEF BARE AREAS BETWEEN DIVERS	RATE TILLAGE SIONS AND
	PERIN	AETER MEASUR	ES SHALL BE SEEDED,	MULCHED, AND TACKED TO PF	REVENT
RYE (GRAIN).	EROS MULC	ION. TACK RAT	E SHALL BE 400 GALLO	NS PER ACRE OF ASPHALT TA	CKIFIER
	USE A	NROLLED EROS	ION CONTROL PRODUC	T TO COVER THE BOTTOM OF	CHANNELS
	AND [	DITCHES AND ST	TAPLE SECURELY. THE	LINING SHOULD EXTEND ABOV	/E THE
POSSIBLE	HIGH	EST CALCULATE	D DEPTH OF FLOW.		
20 - OCT 25	MAIN	<u>TENANCE</u>			
- APR 15	INSPE	ECT AND REPAIR	R MULCH FREQUENTLY.	. REFERTILIZE IN LATE WINTER	OF THE
OR PATRIDGE PEA.	FOLLO OF 10	OWING YEAR. FO -10-10. MOW RE	OLLOW RECOMMENDAT GULARLY TO A HEIGHT	TIONS OF SOIL TESTS OR USE OF 2-4 INCHES.	150 LB/ACRE
ED TALL FESCUE IS					
	SPECIE				
CRE 10-10-10	1 PI	OW COMPACTE	D AREAS 6 INCHES DE	FP	
	2. A				
	3. A	PPLY LIME AND	FERTILIZER UNIFORML	Y AND INCORPORATE INTO TH	E TOP 4-6
	IN	ICHES OF SOIL.	IF A HYDRAULIC SEEDE	ER IS USED. DO NOT MIX SEED	AND FERTILIZER
BY TACKING WITH	М	ORE THAN 30 M	INUTES BEFORE APPLI	CATION.	
W WITH NETTING.	4. U	NLESS HYDROS	EEDING IS USED, BREA	K UP LARGE CLODS. IF SURFA	CE IS SEALED,
	L	DOSEN IT IMMED	DIATELY BEFORE SEED	ING BY RAKING, DISKING, HAR	ROWING OR
	0	THER SUITABLE	METHODS. GROOVE O	R FURROW SLOPES STEEPER	THAN 3:1 ON
IS FULLY	TI	HE CONTOUR BE	EFORE SEEDING.		
R, BUT MOWING IS	5. E'	VENLY APPLY SI	EED USING A CYCLONE	E SEEDER (BROADCAST), DRILL	, CULTIPACKER
DAMAGED AREAS	S	EEDER OR HYDI	ROSEEDER. SMALL GRA	AINS SHOULD BE PLANTED NO	MORE THAN
	ONE INCH DEEP, GRASSES AND LEGUMES NO MORE THAN 1/2 INCH.				
	6. Bl	ROADCAST SEE	D MUST BE COVERED E	BY RAKING OR CHAIN DRAGGIN	IG AND THEN
	LI	GHTLY FIRMED	WITH A ROLLER OR CU	ILTIPAKER. HYDROSEEDED MI>	TURES SHOULD
	IN	ICLUDE A WOOD	FIBER (CELLULOSE) M	IULCH.	
ING	7. IN	I AREAS NOT HY	DROSEEDED, MULCH V	WITH GRAIN STRAW. SEE SEED	NG
HE SLOPE					
	SOTHER THAN DETAILED ON DETAIL AND GROUND SILE SLOPES 80 10 NONE RYE (GRAIN). POSSIBLE 20- OCT 25 - APR 15 OR PATRIDGE PEA. ED TALL FESCUE IS PLY 4,000 LB/ACRE CRE 10-10-10 BY TACKING WITH W WITH NETTING. STACKING WITH W WITH NETTING. SING	SOTHER THAN       PERM         DETAILED ON DETAIL AND GROUND       DATE BEST POSS FEB 1         ES       SLOPES         80 10 NONE       NURS PRIOF         80 10 NONE       SOLL POSS FOLIO         RYE (GRAIN).       MULC USE A AND E         COSSIBLE 20 - OCT 25 - APR 15       MAINT PERM PERM FOLIO         OR PATRIDGE PEA. ED TALL FESCUE IS       SPECIF FOLIO         PLY 4,000 LB/ACRE CRE 10-10-10       SPECIF 1.         PLY 4,000 LB/ACRE CRE 10-10       SPECIF 1.         PLY 4,000 LB/ACRE CRE 10-10       MAINT 1.         PLY 4,000 LB/ACRE CRE 10-10       SPECIF 1.         PLY 4,000 LB/ACRE CRE 10-10       SPECIF 1.         PLY 4,000 LB/ACRE CRE 10-10       SPECIF 1.         PLA       SPECIF 3.         PLA       SPECIF 3.	SOTHER THAN       PERMANENT SEED         DETAILED ON DETAIL AND GROUND       DATES BEST AUG 15 - OCT 31 POSSIBLE FEB 1 - APR 15         ES       SLOPES         80 10 NONE       SOIL AMENDMENTS FOLLOW RECOMMENTS AGRICULTURAL LIME EQUIPMENT ACROSS PERIMETER MEASUR RYE (GRAIN).         VEX 4 (00 LB/ACRE CRE 10 - 10 - 10       SOIL AMENDMENTS FOLLOW RECOMMENT AGRICULTURAL LIME EQUIPMENT ACROSS PERIMETER MEASUR EROSION. TACK RAT MULCH USE A ROLLED EROS AND DITCHES AND ST HIGHEST CALCULATE MAINTENANCE INSPECT AND REPAIF FOLLOWING YEAR. FG OF 10-10-10. MOW RE         PLY 4,000 LB/ACRE CRE 10 - 10-10       SPECIFICATIONS         PLY 4,000 LB/ACRE CRE 10 - 10-10       1. PLOW COMPACTE 2. APPLY TOPSOIL 3. APPLY LIME AND INCHES OF SOIL MORE THAN 30 MORE 1. PLOW COMPACTE 2. APPLY TOPSOIL 3. APPLY LIME AND INCHES OF SOIL MORE THAN 30 MORE THAD SOIL AMONG IS 3. EVENLY APPLY SI SEDER ONTOWING IS 3. EVENLY APPLY SI SEDER ONTOWING IS 5. EVENLY APPLY SI SOILE ONTOWING IS 5. EVENLY APPLY SI SOLE ONTOW IS SOLE ONTOWING IS 5. EVENLY APPLY SI SOLE ONTOW IS SOLE ONTOWING IS 5. EVENLY APPLY SI SOLE ONTOW IS SOLE ONTOW IS	SOTHER THAN       PERMANENT SEEDING SCHEDULE FOR DETAIL AND GROUND         DETAIL AND GROUND       DATES       SPECIES BEST AUG 15 - OCT 31         SS SLOPES       AUG 15 - OCT 31 NONE       TALL FESCUE POSSIBLE FEB 1 - APR 15         SS SLOPES       SOIL AMENDMENTS PRIOR TO MAY 1 OR AFTER AUG 15, ADD 40         NONE       SOIL AMENDMENTS FOLLOW RECOMMENDATIONS OF SOIL TEST AGRICULTURAL LIMESTONE AND 1000 LB/ACRE COUPMENT ACROSS THE WATERWAY ALLE PERMINETT MEASURES SHALL BE SEEDED EROSION. TACK RATE SHALL BE SEEDED EROSION. TACK RATE SHALL BE SEEDED EROSION. TACK RATE SHALL BE SEEDED OR PATRIDGE PEA. ED TALL FESCUE IS         OR PATRIDGE PEA. ED TALL FESCUE IS       SPECIFICATIONS         PLY 4,000 LB/ACRE RRE 10-10-10       SPECIFICATIONS         BY TACKING WITH WWITH NETTING.       PLOW COMPACTED AREAS 6 INCHES DE 2. APPLY LIME AND FERTILEZ UNIFORMAL INCHES OF SOIL IF A VAILABLE.         SM TACKING WITH WWITH NETTING.       SPECIFICATIONS         LING       1. PLOW COMPACTED AREAS 6 INCHES DE 2. APPLY LIME AND FERTILEZ UNIFORMAL INCHES OF SOIL IF A HYDRAULC SEED MORE THAN 30 MINUTES BEFORE APPL MORE THAN 30 MINUTES BEFORE APPL MORE THAN 30 MINUTES DEFORE APPL MORE THAN 30 MINUTES DEFORE APPL MORE THAN 30 MINUTES DEFORE SEED OTHER SUITABLE METHODS. GROOVE C THE CONTOUR BEFORE SEED ONG.         SEEDER OR HYDROSEEDING IS USED, BREAL COSSED OR HYDROSEEDER. MALL GR ONE INCH DEEP, GRASSES AND LEGUMIN 6. BROADCAST SEED MUST BE COVERED O THE CONTOUR BEFORE SEED MING. GROUVE O THE CONTOUR BEFORE SEED MING. GROUVE O THE CONTOUR BEFORE SEED MING THE COVERED O INCLUDE A WOOD FIBER (CELLULOSE) M         I	SOTHER THAN       PERMANENT SEEDING SCHEDULE FOR GRASS-LINED CHANNEL:         DETAILED ON DETAILED ON DETAIL AND GROUND       DATES SPECIES RATE (LBIACRE) BEST AUG 15 - OCT 31 TALL FESCUE 200 POSSIBLE FEB 1 - APR 15         SS SLOPES       NURSE PLANTS PRIOR TO MAY 1 OR AFTER AUG 15, ADD 40 LB/ACRE RYE (GRAIN).       200 AUG 15 - OCT 31 TALL FESCUE 200 POSSIBLE PRIOR TO MAY 1 OR AFTER AUG 15, ADD 40 LB/ACRE RYE (GRAIN).         NONE       SOIL AMENDMENTS PRIOR TO MAY 1 OR AFTER AUG 15, ADD 40 LB/ACRE RYE (GRAIN).       SOIL AMENDMENTS PRIOR TO MAY 1 OR AFTER AUG 16, ADD 40 LB/ACRE RYE (GRAIN).         NONE       SOIL AMENDMENTS PRIOR TO MAY 1 OR AFTER AUG 16, ADD 40 LB/ACRE RYE (GRAIN).       SOIL AMENDMENTS PRODUCT TO COVER THE BOTTOM OF ACRESS ANALL BE SEEDED, MULCHED. AND TACKEN TO PER INTER MEASURES SHALL BE SEEDED, MULCHED AND TACKEN TO PER ACRE OF A SPHALT TA MULCH         VEY 4.000 LB/ACRE RRE 10-10-10       USE A ROLED EROSION CONTROL PRODUCT TO COVER THE BOTTOM OF AND DITCHES AND STAPLE SECURELY. THE LINING SHOULD EXTEND ABOY HIGHEST CALCULATED DEPTH OF FLOW.         YI 4.000 LB/ACRE RRE 10-10-10       DISE AT ADD REPAR MULCH FROUDENTLY. REFERTILIZE IN LATE WINTER FOLLOWING YEAR FOLLOW REGULARLY TO A HEIGHT OF 2-4 INCHES.         YI 4.000 LB/ACRE RRE 10-10-10       SPECIFICATIONS         YI 4.000 LB/ACRE RRE 10-10-10       PLOW COMPACTED AREAS 6 INCHES DEEP.         YI 4.000 LB/ACRE RAS       PLOW COMPACTED AREAS 6 INCHES DEEP.         YI 4.000 LB/ACRE RRE 10-10-10       SPECIFICATIONS         YI 4.000 LB/ACRE       PLOW COMPACTED AREAS 6 INCHES DEEP.





DIMENSIONS AND RADII ARE TO FACE OF CURB, WHERE APPLICABLE, UNLESS OTHERWISE INDICATED

THE CONTRACTOR SHALL SECURE ALL NECESSARY PERMITS FOR THIS PROJECT FROM THE LOCAL AND STATE AGENCIES 4. ANY PERMITS WHICH MUST BE OBTAINED SHALL BE THE CONTRACTOR'S RESPONSIBILITY AND AT HIS EXPENSE. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ABIDING BY ALL CONDITIONS AND REQUIREMENTS OF THE PERMITS.

5. ALL PAVING MATERIALS AND DRAINAGE STRUCTURES SHALL BE BUILT AND INSTALLED IN ACCORDANCE WITH NORTH CAROLINA 6. THE LOCATION OF EXISTING SEWER, WATER OR GAS LINES, CONDUITS OR OTHER STRUCTURES ACROSS, UNDERNEATH, OR

OTHERWISE ALONG THE LINE OF PROPOSED WORK ARE NOT NECESSARILY SHOWN ON THE PLANS, AND IF SHOWN ARE ONLY APPROXIMATE. CONTRACTOR SHALL VERIFY LOCATION AND ELEVATION OF ALL UNDERGROUND UTILITIES SHOWN ON THE PLANS IN AREAS OF CONSTRUCTION PRIOR TO STARTING WORK. CONTACT ENGINEER IMMEDIATELY IF LOCATION OR ELEVATION IS DIFFERENT FROM THAT SHOWN ON THE PLANS, IF THERE APPEARS TO BE A CONFLICT, OR UPON DISCOVERY OF ANY UTILITY NOT SHOWN ON THE PLANS. FOR ASSISTANCE IN LOCATING EXISTING UTILITIES CALL "NC ONE CALL", DIAL 811. 7. ALL WATER AND SEWER CONSTRUCTION AND MATERIALS SHALL CONFORM WITH THE LATEST STANDARDS AND SPECIFICATIONS

WHERE PAVEMENT IS BEING REMOVED, THE CONTRACTOR SHALL REMOVE AGGREGATE BASE MATERIAL TO SUB-GRADE 9. DAMAGE TO UTILITIES (INCLUDING UNDERGROUND) OR PROPERTY OF OTHERS BY CONTRACTOR DURING CONSTRUCTION SHALL BE REPAIRED TO PRE-CONSTRUCTION CONDITIONS BY CONTRACTOR AT NO COST TO OWNER.

11. THE CONTRACTOR IS REQUIRED TO MAINTAIN ALL DITCHES, PIPES, AND OTHER DRAINAGE STRUCTURES FREE FROM OBSTRUCTION UNTIL WORK IS ACCEPTED BY THE OWNER. THE CONTRACTOR IS RESPONSIBLE FOR ANY DAMAGES CAUSED BY

12. THE OWNER SHALL HAVE A SET OF APPROVED PLANS AVAILABLE AT THE SITE AT ALL TIMES WHEN WORK IS BEING PERFORMED. A DESIGNATED RESPONSIBLE EMPLOYEE SHALL BE AVAILABLE FOR CONTACT BY INSPECTORS.

14. LANDSCAPING AND SITE IMPROVEMENTS WILL BE INSTALLED AND MAINTAINED SO AS NOT TO INTERFERE WITH SIGHT DISTANCE

15. THE CONTRACTOR SHALL NOTIFY THE ALL APPLICABLE REGULATORY AGENCIES AND THE ENGINEER AT LEAST 24 HOURS PRIOR

16. ALL EXCAVATION FOR UNDERGROUND PIPE INSTALLATION MUST COMPLY WITH OSHA STANDARDS FOR THE CONSTRUCTION

17. VERIFY THE PROPOSED LAYOUT WITH ITS RELATIONSHIP TO THE EXISTING SITE SURVEY, ALSO VERIFY ALL DIMENSIONS, SITE CONDITIONS, AND MATERIAL SPECIFICATIONS AND NOTIFY THE OWNER AND ENGINEER OF ANY ERRORS, OMISSIONS, OR

19. MAKE EXPLORATORY EXCAVATIONS AND LOCATE EXISTING UTILITIES SUFFICIENTLY AHEAD OF CONSTRUCTION TO PERMIT REVISIONS TO THE PLANS IF NECESSARY. THE EXISTENCE AND/OR LOCATION OF UTILITIES SHOWN ON THESE PLANS MAY BE ONLY APPROXIMATELY CORRECT. TAKE PRECAUTIONARY MEASURES TO PROTECT THE UTILITIES SHOWN HEREON AND ANY OTHER EXISTING UTILITIES NOT OF RECORD OR NOT SHOWN ON THESE PLANS. REPAIR AT YOUR OWN EXPENSE, ANY EXISTING UTILITIES DAMAGED DURING CONSTRUCTION. IF A UTILITY IS DAMAGED DURING CONSTRUCTION, STOP WORK IMMEDIATELY AND

FIRE HYDRANT VALVE AND ALL VALVE BOXES SHALL HAVE CONCRETE DONUT INSTALLED AT GRADE

THE ENGINEER MAKES NO GUARANTEE THAT THE UNDERGROUND UTILITIES SHOWN COMPRISE ALL SUCH UTILITIES IN THE AREA; EITHER IN SERVICE OR ABANDONED. THE ENGINEER FURTHER DOES NOT WARRANT THAT THE UNDERGROUND UTILITIES ARE IN THE EXACT LOCATION AS INDICATED. ALTHOUGH, HE DOES CERTIFY THAT THEY ARE LOCATED AS ACCURATELY AS

THE CONTRACTOR SHALL VISIT THE SITE PRIOR TO CONSTRUCTION SO THAT CONTRACTOR IS FAMILIAR AND UNDERSTANDS

FIELD CHANGES MAY BE NECESSARY DUE TO EXISTING UTILITY LOCATIONS. THE ENGINEER SHALL BE CONTACTED BEFORE

WATER MAINS SHALL BE LAID AT LEAST 10 FEET LATERALLY FROM EXISTING OR PROPOSED SEWERS UNLESS LOCAL CONDITIONS OR BARRIERS PREVENT A 10-FOOT LATERAL SEPARATION, IN WHICH CASE A VERTICAL SEPARATION OF AT LEAST 18" SHALL BE MAINTAINED BY EITHER LAYING THE WATER MAIN IN A SEPARATE TRENCH WITH THE BOTTOM AT LEAST 18" ABOVE THE SEWER OR LAYING THE WATER MAIN ON A BENCH IN THE SAME TRENCH AT LEAST 18" ABOVE THE SEWER WHERE A WATER MAIN CROSSES OVER A SEWER, MAINTAIN AT LEAST 18" VERTICAL SEPARATION BETWEEN THE PIPES. IF AN 18" VERTICAL SEPARATION IS NOT POSSIBLE, BOTH THE WATER MAIN AND SEWER SHALL BE CONSTRUCTED OF FERROUS MATERIALS (DIP) AND WITH JOINTS THAT ARE EQUIVALENT TO WATER MAIN STANDARDS FOR A DISTANCE OF 10 FT ON EACH

WHERE A WATER MAIN CROSSES UNDER A SEWER, MAINTAIN AT LEAST 18" VERTICAL SEPARATION BETWEEN THE PIPES. BOTH THE WATER MAIN AND SEWER SHALL BE CONSTRUCTED OF FERROUS MATERIALS (DIP) AND WITH JOINTS THAT ARE EQUIVALENT TO WATER MAIN STANDARDS FOR A DISTANCE OF 10 FT ON EACH SIDE OF THE POINT OF CROSSING. A SECTION OF

SURFACE PREPARATION FOR SEEDING



#### PART III SELF-INSPECTION, RECORDKEEPING AND REPORTING

#### **SECTION A: SELF-INSPECTION**

SELF-INSPECTIONS ARE REQUIRED DURING NORMAL BUSINESS HOURS IN ACCORDANCE WITH THE TABLE BELOW. WHEN ADVERSE WEATHER OR SITE CONDITIONS WOULD CAUSE THE SAFETY OF THE INSPECTION PERSONNEL TO BE IN JEOPARDY. THE INSPECTION MAY BE DELAYED UNTIL THE NEXT BUSINESS DAY ON WHICH IT IS SAFE TO PERFORM THE INSPECTION. IN ADDITION, WHEN A STORM EVENT OF EQUAL TO OR GREATER THAN 1.0 INCH OCCURS OUTSIDE OF NORMAL BUSINESS HOURS, THE SELF-INSPECTION SHALL BE PERFORMED UPON THE COMMENCEMENT OF THE NEXT BUSINESS DAY. ANY TIME WHEN INSPECTIONS WERE DELAYED SHALL BE NOTED IN THE INSPECTION RECORD.

INSPECT	FREQUENCY (DURING NORMAL BUSINESS HOURS)	INSPECTION RECORDS MUST INCLUDE:					
(1) RAIN GAUGE MAINTAINE D IN GOOD WORKING ORDER	DAILY	DAILY RAINFALL AMOUNTS. IF NO DAILY RAIN GAUGE OBSERVATIONS ARE MADE DURING WEEKEND OR HOLIDAY PERIODS, AND NO INDIVIDUAL-DAY RAINFALL INFORMATION IS AVAILABLE, RECORD THE CUMULATIVE RAIN MEASUREMENT FOR THOSE UN-ATTENDED DAYS (AND THIS WILL DETERMINE IF A SITE INSPECTION IS NEEDED). DAYS ON WHICH NO RAINFALL OCCURRED SHALL BE RECORDED AS "ZERO." THE PERMITTEE MAY USE ANOTHER RAIN-MONITORING DEVICE APPROVED BY THE DIVISION.					
(2) E&SC MEASURES	AT LEAST ONCE PER 7 CALENDAR DAYS AND WITHIN 24 HOURS OF A RAIN EVENT ≥ 1.0 INCH IN 24 HOURS	<ol> <li>IDENTIFICATION OF THE MEASURES INSPECTED,</li> <li>DATE AND TIME OF THE INSPECTION,</li> <li>NAME OF THE PERSON PERFORMING THE INSPECTION,</li> <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> </ol>					
(3) STORMWA TER DISCHARG E OUTFALLS (SDOS)	AT LEAST ONCE PER 7 CALENDAR DAYS AND WITHIN 24 HOURS OF A RAIN EVENT ≥ 1.0 INCH IN 24 HOURS	<ol> <li>IDENTIFICATION OF THE DISCHARGE OUTFALLS INSPECTED,</li> <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 SEDIMENT LEAVING THE SITE,</li> <li>DESCRIPTION, EVIDENCE, AND DATE OF CORRECTIVE ACTIONS TAKEN.</li> </ol>					
(4) PERIMETER OF SITE	AT LEAST ONCE PER 7 CALENDAR DAYS AND WITHIN 24 HOURS OF A RAIN EVENT ≥ 1.0 INCH IN 24 HOURS	IF VISIBLE SEDIMENTATION IS FOUND OUTSIDE SITE LIMITS, THEN A RECORD OF THE FOLLOWING SHALL BE MADE: 1. ACTIONS TAKEN TO CLEAN UP OR STABILIZE THE SEDIMENT THAT HAS LEFT THE SITE LIMITS, 2. DESCRIPTION, EVIDENCE, AND DATE OF CORRECTIVE ACTIONS TAKEN, AND 3. AN EXPLANATION AS TO THE ACTIONS TAKEN TO CONTROL FUTURE RELEASES.					
(5) STREAMS OR WETLANDS ONSITE OR OFFSITE (WHERE ACCESSIBL E)	AT LEAST ONCE PER 7 CALENDAR DAYS AND WITHIN 24 HOURS OF A RAIN EVENT ≥ 1.0 INCH IN 24 HOURS	IF THE STREAM OR WETLAND HAS INCREASED VISIBLE SEDIMENTATION OR A STREAM HAS VISIBLE INCREASED TURBIDITY FROM THE CONSTRUCTION ACTIVITY, THEN A RECORD OF THE FOLLOWING SHALL BE MADE: 1. DESCRIPTION, EVIDENCE AND DATE OF CORRECTIVE ACTIONS TAKEN, AND 2. RECORDS OF THE REQUIRED REPORTS TO THE APPROPRIATE DIVISION REGIONAL OFFICE PER PART III, SECTION C, ITEM (2)(A) OF THIS PERMIT.					
(6) GROUND STABILIZATI ON MEASURES	(6) GROUND STABILIZATION MEASURESAFTE R EACH PHASE OF GRADING	<ol> <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 SOON AS POSSIBLE.</li> </ol>					
OTE: THE RANSPECTION	TE: THE RAIN INSPECTION RESETS THE REQUIRED 7 CALENDAR DAY SPECTION REQUIREMENT.						

#### PART III

#### SELF-INSPECTION, RECORDKEEPING AND REPORTING

#### **SECTION B: RECORDKEEPING 1. E&SC PLAN DOCUMENTATION**

THE APPROVED E&SC PLAN AS WELL AS ANY APPROVED DEVIATION SHALL BE KEPT ON THE SITE THE APPROVED E&SC PLAN MUST BE KEPT UP-TO-DATE THROUGHOUT THE COVERAGE UNDER THIS PERMIT. THE FOLLOWING ITEMS PERTAINING TO THE E&SC PLAN SHALL BE KEPT ON SITE AND AVAILABLE FOR INSPECTION AT ALL TIMES DURING NORMAL BUSINESS HOURS.

#### **ITEM TO DOCUMENT** DOCUMENTATION REQUIREMENTS

(A) EACH E&SC MEASURE HAS BEEN INSTALLED INITIAL AND DATE EACH E&SC MEASURE ON A COPY OF THE AND DOES NOT APPROVED E&SC PLAN OR COMPLETE, DATE AND SIGN AN SIGNIFICANTLY DEVIATE INSPECTION REPORT THAT LISTS EACH E&SC MEASURE FROM THE LOCATIONS, SHOWN ON THE APPROVED E&SC PLAN. THIS DIMENSIONS AND DOCUMENTATION IS REQUIRED UPON THE INITIAL **RELATIVE ELEVATIONS** INSTALLATION OF THE E&SC MEASURES OR IF THE E&SC SHOWN ON THE MEASURES ARE MODIFIED AFTER INITIAL INSTALLATION. APPROVED E&SC PLAN. INITIAL AND DATE A COPY OF THE APPROVED E&SC PLAN OR (B) A PHASE OF GRADING COMPLETE, DATE AND SIGN AN INSPECTION REPORT TO HAS BEEN COMPLETED. INDICATE COMPLETION OF THE CONSTRUCTION PHASE. (C) GROUND COVER IS INITIAL AND DATE A COPY OF THE APPROVED E&SC PLAN OR LOCATED AND INSTALLED COMPLETE, DATE AND SIGN AN INSPECTION REPORT TO IN ACCORDANCE WITH INDICATE COMPLIANCE WITH APPROVED GROUND COVER THE APPROVED E&SC SPECIFICATIONS. PLAN. (D) THE MAINTENANCE AND REPAIR COMPLETE, DATE AND SIGN AN INSPECTION REPORT. **REQUIREMENTS FOR ALL E&SC MEASURES HAVE** BEEN PERFORMED. (E) CORRECTIVE NITIAL AND DATE A COPY OF THE APPROVED E&SC PLAN OR ACTIONS HAVE BEEN COMPLETE, DATE AND SIGN AN INSPECTION REPORT TO TAKEN TO E&SC INDICATE THE COMPLETION OF THE CORRECTIVE ACTION. MFASURFS. 2. DOCUMENTATION TO BE RETAINED FOR THREE YEARS ALL DATA USED TO COMPLETE THE E-NOI AND ALL INSPECTION RECORDS SHALL BE MAINTAINED FOR A PERIOD OF THREE YEARS AFTER PROJECT COMPLETION AND MADE

AVAILABLE UPON REQUEST. [40 CFR 122.41] 3. ADDITIONAL DOCUMENTATION TO BE KEPT ON SITE

IN ADDITION TO THE E&SC PLAN DOCUMENTS ABOVE, THE FOLLOWING ITEMS SHALL BE

KEPT ON THE SITE AND AVAILABLE FOR INSPECTORS AT ALL TIMES DURING NORMAL BUSINESS HOURS, UNLESS THE DIVISION PROVIDES A SITE-SPECIFIC EXEMPTION BASED ON UNIQUE SITE CONDITIONS THAT MAKE THIS REQUIREMENT NOT PRACTICAL:

- (a) THIS GENERAL PERMIT AS WELL AS THE CERTIFICATE OF COVERAGE, AFTER IT IS RECEIVED
- (b) RECORDS OF INSPECTIONS MADE DURING THE PREVIOUS TWELVE MONTHS. THE PERMITTEE SHALL RECORD THE REQUIRED OBSERVATIONS ON THE INSPECTION RECORD FORM PROVIDED BY THE DIVISION OR A SIMILAR INSPECTION FORM THAT INCLUDES ALL THE REQUIRED ELEMENTS. USE OF ELECTRONICALLY-AVAILABLE RECORDS IN LIEU OF THE REQUIRED PAPER COPIES WILL BE ALLOWED IF SHOWN TO PROVIDE EQUAL ACCESS AND UTILITY AS THE HARD-COPY RECORDS.

#### PART II SELF-INSPECTION, RECORDKEEPING AND

#### SECTION C: REPORTING . OCCURRENCES THAT MUST BE REPORTED

PERMITTEES SHALL REPORT THE FOLLOWING OCCURRENCES: (a) VISIBLE SEDIMENT DEPOSITION IN A STREAM OR WETLAND.

- (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).

(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 (REF: 40 CFR 302.4) OR G.S. 143-215.85.

(d) ANTICIPATED BYPASSES AND UNANTICIPATED BYPASSES.

(e) NONCOMPLIANCE WITH THE CONDITIONS OF THIS PERMIT THAT MAY ENDANGER HEALTH OR THE 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	REPORTING TIMEFRAMES (AFTER DISCOVERY) OTHER REQUIREMENT
A) VISIBLE SEDIMENT DEPOSITION IN A STREAM OR WETLAND	WITHIN 24 HOURS, AN ORAL OR ELECTRONIC NOTIFICATION     WITHIN 7 CALENDAR DAYS, A REPORT THAT CONTAINS A     DESCRIPTION OF THE SEDIMENT AND ACTIONS TAKEN TO AE     THE CAUSE OF THE DEPOSITION. DIVISION STAFF MAY WAIVE     REQUIREMENT FOR A WRITTEN REPORT ON A CASE-BY-CASE     IF THE STREAM IS NAMED ON THE <u>NC 303(D) LIST</u> AS IMPAIR     SEDIMENT-RELATED CAUSES, THE PERMITTEE MAY BE REQU     PERFORM ADDITIONAL MONITORING, INSPECTIONS OR APPL     STRINGENT PRACTICES IF STAFF DETERMINE THAT ADDITION     REQUIREMENTS ARE NEEDED TO ASSURE COMPLIANCE WITH     FEDERAL OR STATE IMPAIRED-WATERS CONDITIONS.
B) OIL SPILLS AND RELEASE DF HAZARDOUS SUBSTANCES PER ITEM I(B)-(C) ABOVE	<i>WITHIN 24 HOURS</i> , AN ORAL OR ELECTRONIC NOTIFICATION. NOTIFICATION SHALL INCLUDE INFORMATION ABOUT THE DA TIME, NATURE, VOLUME AND LOCATION OF THE SPILL OR RE
C) ANTICIPATED 3YPASSES [40 CFR 122.41(M)(3)]	• A REPORT AT LEAST TEN DAYS BEFORE THE DATE OF THE BYPASS, IF POSSIBLE. THE REPORT SHALL INCLUDE AN EVA OF THE ANTICIPATED QUALITY AND EFFECT OF THE BYPASS.
D) JNANTICIPATED 3YPASSES [40 CFR [22.41(M)(3)]	• <i>WITHIN 24 HOURS</i> , AN ORAL OR ELECTRONIC NOTIFICATION • <i>WITHIN 7 CALENDAR DAYS</i> , A REPORT THAT INCLUDES AN EVALUATION OF THE QUALITY AND EFFECT OF THE BYPASS.
E) NONCOMPLIANC E WITH THE CONDITIONS OF THIS PERMIT THAT MAY ENDANGER HEALTH OR THE ENVIRONMENT[4 ) CFR	<ul> <li>WITHIN 24 HOURS, AN ORAL OR ELECTRONIC NOTIFICATION</li> <li>WITHIN 7 CALENDAR DAYS, A REPORT THAT CONTAINS A DESCRIPTION OF THE NONCOMPLIANCE, AND ITS CAUSES; TI PERIOD OF NONCOMPLIANCE, INCLUDING EXACT DATES AND AND IF THE NONCOMPLIANCE HAS NOT BEEN CORRECTED, T ANTICIPATED TIME NONCOMPLIANCE IS EXPECTED TO CONT AND STEPS TAKEN OR PLANNED TO REDUCE, ELIMINATE, AN PREVENT REOCCURRENCE OF THE NONCOMPLIANCE. [40 CF 122.41(L)(6).</li> <li>DIVISION STAFF MAY WAIVE THE REQUIREMENT FOR A WRIT REPORT ON A CASE-BY-CASE BASIS</li> </ul>

PAINT AND OTHER LIQUID WASTE DO NOT DUMP PAINT AND OTHER LIQUID WASTE INTO STORM DRAINS, STREAMS OR WETLANDS. 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. PREVENT THE DISCHARGE OF SOAPS, SOLVENTS, DETERGENTS AND OTHER LIQUID WASTES FROM CONSTRUCTION SITES.

- AVAILABLE.

### NEEDS. HERBICIDES, PESTICIDES AND RODENTICIDES

- PORTABLE TOILETS

<b>REPORTING</b>
REPORTING

### FTER DISCOVERY) AND REMENT

ACTIONS TAKEN TO ADDRESS SION STAFF MAY WAIVE THE RT ON A CASE-BY-CASE BASIS. 303(D) LIST AS IMPAIRED FOR RMITTEE MAY BE REQUIRED TO NSPECTIONS OR APPLY MORE ERMINE THAT ADDITIONAL JRE COMPLIANCE WITH THE S CONDITIONS.

RONIC NOTIFICATION. THE ATION ABOUT THE DATE, N OF THE SPILL OR RELEASE.

RE THE DATE OF THE HALL INCLUDE AN EVALUATION FECT OF THE BYPASS.

TRONIC NOTIFICATION. T THAT INCLUDES AN

TRONIC NOTIFICATION. T THAT CONTAINS A E, AND ITS CAUSES; THE NG EXACT DATES AND TIMES, BEEN CORRECTED, THE IS EXPECTED TO CONTINUE; DUCE, FLIMINATE, AND

NCOMPLIANCE. [40 CFR UIREMENT FOR A WRITTEN

### 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

PROTECT STOCKPILE WITH SILT FENCE INSTALLED ALONG TOE OF SLOPE WITH A MINIMUM OFFSET OF FIVE FEET FROM THE TOE OF STOCKPILE. PROVIDE STABLE STONE ACCESS POINT WHEN FEASIBLE.

4. STABILIZE STOCKPILE WITHIN THE TIMEFRAMES PROVIDED ON THIS SHEET AND IN ACCORDANCE WITH THE APPROVED PLAN AND ANY ADDITIONAL REQUIREMENTS. SOIL STABILIZATION IS DEFINED AS VEGETATIVE, PHYSICAL OR CHEMICAL COVERAGE TECHNIQUES THAT WILL RESTRAIN ACCELERATED EROSION ON DISTURBED SOILS FOR TEMPORARY OR PERMANENT CONTROL

STORE AND APPLY HERBICIDES, PESTICIDES AND RODENTICIDES IN ACCORDANCE WITH LABEL RESTRICTIONS.

STORE HERBICIDES, PESTICIDES AND RODENTICIDES IN THEIR ORIGINAL CONTAINERS WITH THE LABEL, WHICH LISTS DIRECTIONS FOR USE, INGREDIENTS AND FIRST AID STEPS IN CASE OF ACCIDENTAL POISONING. DO NOT STORE HERBICIDES, PESTICIDES AND RODENTICIDES IN AREAS WHERE FLOODING IS POSSIBLE OR WHERE THEY MAY SPILL OR LEAK INTO WELLS, STORMWATER DRAINS, GROUND WATER OR SURFACE WATER. IF A SPILL OCCURS, CLEAN AREA IMMEDIATELY.

### 4. DO NOT STOCKPILE THESE MATERIALS ONSITE

1. 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. 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.

**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.

SECTION E: GROUND STABILIZATION

REQUIRED GROUND STABILIZATION TIMEFRAMES				
SITE AREA DESCRIPTION	STABILIZE WITHIN THIS MANY CALENDAR DAYS AFTER CEASING LAND DISTURBANCE	TIMEFRAME VARIATIONS		
(A) PERIMETER DIKES, SWALES, DITCHES, AND PERIMETER SLOPES	7	NONE		
(B) HIGH QUALITY WATER (HQW) ZONES	7	NONE		
(C) SLOPES STEEPER THAN 3:1	7	IF SLOPES ARE 10' OF LESS IN LENGTH AND ARE NOTE STEEPER THAN 2:1, 14 DAYS 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 LAKE WATERSHED UNLESS THERE IS ZERO SLOPE		

**NOTE:** AFTER THE PERMANENT CESSATION OF CONSTRUCTION ACTIVITIES, ANY AREAS WITH TEMPORARY GROUND STABILIZATION SHALL BE CONVERTED TO PERMANENT GROUND STABILIZATION AS SOON AS PRACTICABLE BUT IN NO CASE LONGER THAN 90 CALENDAR DAYS AFTER THE LAST LAND DISTURBING ACTIVITY. TEMPORARY GROUND STABILIZATION SHALL BE MAINTAINED IN A MANNER TO RENDER THE SURFACE STABLE AGAINST ACCELERATED EROSION UNTIL PERMANENT GROUND STABILIZATION IS ACHIEVED.

### **GROUND STABILIZATION SPECIFICATION**

TEMPORARY SEEDING

Stabilize the ground sufficiently so that rain will not dislodge the soil. Use one of the techniques in the table below:

 TEMPORARY GRASS SEED COVERED WITH STRAW OR OTHER MULCHES AND TACKIFIERS · HYDROSEEDING · ROLLED EROSION CONTROL PRODUCTS WITH OR WITHOUT TEMPORARY GRASS SEED · APPROPRIATELY APPLIED STRAW OR OTHER MULCH PLASTIC SHEETING

PERMANENT 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

- WASTE CONTAINERS. DOMESTIC WASTES.
- REASONABLY AVAILABLE.
- DIRECTLY TO A STORM DRAIN, STREAM OR WETLAND.
- REPLACE DAMAGED WASTE CONTAINERS.
- HIGH WINDS.
- IMMEDIATELY IF CONTAINERS OVERFLOW.
- WASTE CONTAINERS.

- CONTAINMENT.
- DIRECTLY ON THE GROUND.

- DO NOT DISCHARGE CONCRETE OR CEMENT SLURRY FROM THE SITE.
- AND WITHIN LOT PERIMETER SILT FENCE
- PROVIDED ON THIS DETAIL.

- REQUIRED BY THE APPROVING AUTHORITY.
- LOCATION.
- ANY DISTURBANCE CAUSED BY REMOVAL OF WASHOUT.









STDI Rim: 472.36' 15" RCP INV OUT: 467.31'

> (0.1' AG Yard Inlet (Dilapidated) Rim: 465.95' 4" HDPE INV OUT (Crushed): 465.16'

SANITARY SEWER CO (TYP) -

#### 4" SEWER CONNECTION (SEE PLUMBING PLAN)(TYP)

Sanjai Gupta PIN: 0784518137 DB 11263 PG 2157

Sanjai Gupta PIN: 0784508933 DB 11263 PG 2157 1 1/4" IPF

\_ \_\_\_\_ \_ \_ \_ \_

01°28'49" W 117.25'

NOTE: 1. NET REDUCTION IN ONSITE IMPERVIOUS AREA FROM EXISTING CONDITION TO PROPOSED CONDITION, AS A RESULT NO ONSITE STORMWATER TREATMENT IS REQUIRED.

\_\_\_\_



NEW DI RIM: 465.9 MATCH PIPE INVERT 3" PVC
STDI       15" RCP INI         Rim: 472.36'       12" PVC         15" RCP INV OUT: 467.31'       =         =       =
NEW DI RIM: 465.5
 (0.1' AG) Yard Inlet (Dilapidated) Rim: 465.95' 4" HDPE INV OUT (Crushed): 465.16'
TW 467.0 BW 466.2
BW 465.9 NEW ADS DI RIM: 465.5 INV 462.5
RETAINING WALL (SEE DETAILS IN STRUCTURAL DRAWINGS) 465.75
Sanjai Gupta PIN: 0784518137 DB 11263 PG 2157
NEW DI 000 RIM: 465.5 INV 460.3
TW 469.0 BW 466.2 NEW DI
INV 460.0
*
NEW ADS DI RIM: 465.5 INV 461.0
465.75 Sanjai Gupta TW 470.0 PIN: 0784508933 BW 468.0 DB <del>11263</del> PG 2157
1 1/4" IPF (Flush)
S 01°28'49 117.25' N 01°28'46





### MATERIALS

- 1. USE A SYNTHETIC FILTER FABRIC OF AT LEAST 95% BY WEIGHT OF POLYOLEFINS OR POLYESTER, WHICH IS CERTIFIED BY THE MANUFACTURER OR SUPPLIER AS CONFORMING TO THE REQUIREMENTS IN ASTM D 6461, WHICH IS SHOWN IN PART IN TABLE 6.62B. SYNTHETIC FILTER FABRIC SHOULD CONTAIN ULTRAVIOLET RAY INHIBITORS AND STABILIZERS TO PROVIDE A MINIMUM OF 6 MONTHS OF EXPECTED USABLE CONSTRUCTION LIFE AT A TEMPERATURE RANGE OF 0 TO 120° F.
- 2. ENSURE THAT POSTS FOR SEDIMENT FENCES ARE 1.33 LB/LINEAR FT STEEL WITH A MINIMUM LENGTH OF 5 FEET. MAKE SURE THAT STEEL POSTS HAVE PROJECTIONS TO FACILITATE FASTENING THE FABRIC.
- 3. FOR REINFORCEMENT OF STANDARD STRENGTH FILTER FABRIC, USE WIRE FENCE WITH A MINIMUM 14 GAUGE AND A MAXIMUM MESH SPACING OF 6 INCHES. CONSTRUCTION
- 1. CONSTRUCT THE SEDIMENT BARRIER OF STANDARD STRENGTH OR EXTRA STRENGTH SYNTHETIC FILTER FABRICS. 2. ENSURE THAT THE HEIGHT OF THE SEDIMENT FENCE DOES NOT EXCEED 24
- INCHES ABOVE THE GROUND SURFACE. (HIGHER FENCES MAY IMPOUND VOLUMES OF WATER SUFFICIENT TO CAUSE FAILURE OF THE STRUCTURE.)
- 3. CONSTRUCT THE FILTER FABRIC FROM A CONTINUOUS ROLL CUT TO THE LENGTH OF THE BARRIER TO AVOID JOINTS. WHEN JOINTS ARE NECESSARY, SECURELY FASTEN THE FILTER CLOTH ONLY AT A SUPPORT POST WITH 4 FEET MINIMUM OVERLAP TO THE NEXT POST.
- 4. SUPPORT STANDARD STRENGTH FILTER FABRIC BY WIRE MESH FASTENED SECURELY TO THE UPSLOPE SIDE OF THE POSTS. EXTEND THE WIRE MESH SUPPORT TO THE BOTTOM OF THE TRENCH. FASTEN THE WIRE REINFORCEMENT, THEN FABRIC ON THE UPSLOPE SIDE OF THE FENCE POST. WIRE OR PLASTIC ZIF TIES SHOULD HAVE MINIMUM 50 POUND TENSILE STRENGTH
- 5. WHEN A WIRE MESH SUPPORT FENCE IS USED, SPACE POSTS A MAXIMUM OF 8 FEET APART. SUPPORT POSTS SHOULD BE DRIVEN SECURELY INTO THE GROUND A MINIMUM OF 24 INCHES.
- 6. EXTRA STRENGTH FILTER FABRIC WITH 6 FEET POST SPACING DOES NOT REQUIRE WIRE MESH SUPPORT FENCE. SECURELY FASTEN THE FILTER FABRIC DIRECTLY TO POSTS. WIRE OR PLASTIC ZIP TIES SHOULD HAVE MINIMUM 50 POUND TENSILE STRFNGTH 7. EXCAVATE A TRENCH APPROXIMATELY 4 INCHES WIDE AND 8 INCHES DEEP
- ALONG THE PROPOSED LINE OF POSTS AND UPSLOPE FROM THE BARRIER (FIGURE 6.62A). 8. PLACE 12 INCHES OF THE FABRIC ALONG THE BOTTOM AND SIDE OF THE
- TRENCH. 9. BACKFILL THE TRENCH WITH COMPACTED SOIL PLACED OVER THE FILTER FABRIC. THOROUGH COMPACTION OF THE BACKFILL IS CRITICAL TO SILT FENCE PERFORMANCE.
- 10. DO NOT ATTACH FILTER FABRIC TO EXISTING TREES.

### SEDIMENT FENCE DETAIL NOT TO SCALE



BURIED SEDIMENT FENCE FABRIC -

CONSTRUCTION SPECIFICATIONS UNIFORMLY GRADE A SHALLOW DEPRESSION APPROACHING THE

INLET 2. DRIVE 5-FOOT STEEL POSTS 2 FEET INTO THE GROUND SURROUNDING THE INLET. SPACE POSTS EVENLY AROUND THE PERIMETER OF THE INLET, A MAXIMUM OF 4 FEET APART.

A DISC.

INSTALLATION SPECIFICATIONS

WHEN TIGHTENED TO PREVENT SAGGING.

TWICE FOR A TOTAL OF 4 TRIPS.

AREA HAS BEEN PROPERLY STABILIZED.

STANDARD APPLICATIONS.

SECURE WITH 3 TIES.

BEFORE COMPACTION.

LEVEL.

MAINTENANCE

- SURROUND THE POSTS WITH WIRE MESH HARDWARE CLOTH. SECURE THE WIRE MESH TO THE STEEL POSTS AT THE TOP, MIDDLE, AND BOTTOM. PLACING A 2-FOOT FLAP OF THE WIRE MESH UNDER THE
- GRAVEL FOR ANCHORING IS RECOMMENDED. 4. PLACE CLEAN GRAVEL (NC DOT #5 OR #57 STONE) ON A 2:1 SLOPE WITH A HEIGHT OF 16 INCHES AROUND THE WIRE, AND SMOOTH TO AN EVEN GRADE.
- ONCE THE CONTRIBUTING DRAINAGE AREA HAS BEEN STABILIZED, REMOVE ACCUMULATED SEDIMENT, AND ESTABLISH FINAL GRADING ELEVATIONS.
- 6. COMPACT THE AREA PROPERLY AND STABILIZED IT WITH GROUNDCOVER.

MAINTENANCE INSPECT INLETS AT LEAST WEEKLY AND AFTER EACH SIGNIFICANT (1/2 INCH OR GREATER)RAINFALL EVENT. CLEAR THE MESH WIRE OF ANY DEBRIS OR OTHER OBJECTS TO PROVIDE ADEQUATE FLOW FOR SUBSEQUENT RAINS. TAKE CARE NOT TO DAMAGE OR UNDERCUT THE WIRE MESH DURING SEDIMENT REMOVAL. REPLACE STONE AS



NEEDED.

- DROP INLET

WITH GRATE

### TEMPORARY SEEDING SCHEDULE

JLDERS,	SIDE	DITCHES,	SLOPES



4. USE GEOTEXTILE FABRICS BECAUSE THEY IMPROVE STABILITY OF THE FOUNDATION IN AREAS SUBJECT TO SEEPAGE OR HIGH WATER TABLE.

MAINTENANCE

CE

1. MAINTAIN THE GRAVEL PAD IN A CONDITION TO PREVENT MUD OR SEDIMENT FROM LEAVING THE CONSTRUCTION SITE. THIS MAY PERIODIC TOPDRESSING WITH 2-3 INCH STONE. IMMEDIATELY REMOVE ALL OBJECTIONABLE MATERIALS SPILLED, WASHED OR TRACKED ONTO PUBLIC ROADWAYS.

EMPORARY CONSTRUCTION ENTRANCE NOT TO SCALE

MNM

CTC JR

NONE

03/17/2023

495905

C7.0

HECKED BY:

ROJECT NUMBER:

SCALE:

4. AFTER ALL SEDIMENT PRODUCING AREAS HAVE BEEN STABILIZED, INSPECTED, AND APPROVED, REMOVE THE STRUCTURE AND ALL UNSTABLE SEDIMENT. SMOOTH SITE TO BLEND WITH

> SEDIMENT FENCE OUTLET DETAIL (SFO NOT TO SCALE

ADJOINING AREAS AND STABILIZE.







### CUT SLOPE ROUGHENING FOR A

- Stair-step grade or groove cut 2. Use stair-step grading on any bulldozer. Slopes consisting o to stair-stepping.
- Make the vertical cut distance the horizontal position of the
- 4. Do not make individual vertica 3 feet in rocky materials.
- 5. Grooving uses machinery to c across the slope (on the conto
- 6. Groove using any appropriate Such as disks, tillers, spring h not make such grooves less t

### FILL SLOPE ROUGHENING FOR

- 1. Place fill slopes with a gradien make sure each lift is properly of loose, uncompacted fill 4 to roughen the face of the slopes
- 2. Do not blade or scrape the final

### CUTS, FILLS, AND GRADED ARE

- Make mowed slopes no steep 1. 2. Roughen these areas to shall of a cultipacker-seeder. Make
- contour. 3. Make grooves, formed by suc
- not less than 1 inch deep. 4. Excessive roughness is under

### **ROUGHENING WITH TRACKED M**

- 1. Limit roughening with tracked the soil surface. Tracking is ge methods described.
- 2. Operate tracked machinery up the soil. Do not back-blade du

### SEED AND MULCH ROUGHENED AREAS IMMEDIATELY TO OBTAIN OPTIMUM SEED

**GERMINATION AND GROWTH.** 

### SURFACE ROUGHENING

AREAS NOT TO BE MOWED: t slopes with a gradient steeper than 3:1. r erodible material soft enough to be ripped with a of soft rock with some subsoil are particularly suited e less than the horizontal distance, and slightly slope "step" in toward the vertical wall. al cuts more than 2 feet in soft materials or more than create a series of ridges and depressions that run our). e implement that can be safely operated on the slope. harrows, or the teeth on a front-end loader bucket. Do han 3 inches deep nor more than 15 inches apart. AREAS NOT TO BE MOWED: In steeper than 3:1 in lifts not to exceed 9 inches, and y compacted. Ensure that the face of the slope consists o 6 inches deep. Use grooving, as described above, to s, if necessary.	IEEMPORARY SEEDING SCHEDULE SHOULDERS, SIDE DITCHES, SLOPES         DATE:       TYPE:       PLANTING RATES:         Aug 15 - May 1       Ryc (grain)       200 lbs./acre         May 1 - Aug 15       German Millet       40 lbs./acre         Consult the Conservation Engineer or the Soil Conservation Service for additional information concerning other alternative for vegetation of denuded areas.         Ground cover must be installed on exposed slopes within 7 days following completion of any phase of grading.         * Omit annual lespedeza when duration of temporary cover is not to extend beyond June.         ***Temporary - Reseed according to optimum season for desired permanent vegetation, Do not allow temporary cover to grow over 12" in height before mowing, otherwise fescue may be shaded out.         SEEDBED PREPARATION         1.       Chisel compacted areas and spread topsoil 3" deep over adverse soil conditions, if available.         2.       Rig the entire area to 6" depth.         3.       Romove all loses rock, roots, and other obstructions leaving surface reasonably smooth and uniform.         4.       Apply agricultural lime, fertilizer, and superphosphate uniformly and mix with soil (see below*).         Constitute tillage unit a well-pubyreica (fmr, reasonably uniform seedbed is prepared 4" to 6" dept.         6.       Steed an a reset Managed resetablish of holymoing roliginal lime, fertilizer and seeding rate.         9.       Mouth immediately after seeding and anch	<ul> <li><sup>T</sup> Main</li> <li><u>CONSTRUC</u></li> <li>1. SUBGR</li> <li>SHOWN</li> <li>SURRO</li> <li>AND OT</li> <li>RIPRAP</li> <li>ALLOW</li> <li>RIPRAP</li> <li>RIPRAP</li></ul>
AS THAT WILL BE MOWED: per than 3:1 ow grooves by normal tilling, disking, harrowing, or use a the final pass of any such tillage implement on the ch implements, close together (less than 10 inches) and sirable where mowing is planned. IACHINERY: machinery to sandy soils to avoid undue compaction of enerally not as effective as the other roughening p and down the slope to leave horizontal depressions in wine the final passion		<ol> <li>SYNTHE BY AT LE CLOTH A OVER LA AMAGE ( MINIMUM REPLACE WHERE I MAY BE I</li> <li>STONE F RIPRAP S DISTRIBU CONTRO PLACE R CARE NO THE TOE THE TOE EXTEND</li> </ol>



tenance In general, once a riprap installation has been properly designed and installed it requires very little maintenance. Riprap should be inspected periodically for scour or dislodged stones. Control of weed and brush growth may be needed in some locations.

#### TION SPECIFICATIONS

ADE PREPARATION—PREPARE THE SUBGRADE FOR RIPRAP AND FILTER TO THE REQUIRED LINES AND GRADES NON THE PLANS. COMPACT ANY FILL REQUIRED IN THE SUBGRADE TO A DENSITY APPROXIMATING THAT OF THE UNDING UNDISTURBED MATERIAL OR OVERFILL DEPRESSIONS WITH RIPRAP. REMOVE BRUSH, TREES, STUMPS, THER OBJECTIONABLE MATERIAL. CUT THE SUBGRADE SUFFICIENTLY DEEP THAT THE FINISHED GRADE OF THE WILL BE AT THE ELEVATION OF THE SURROUNDING AREA. CHANNELS SHOULD BE EXCAVATED SUFFICIENTLY TO PLACEMENT OF THE RIPRAP IN A MANNER SUCH THAT THE FINISHED INSIDE DIMENSIONS AND GRADE OF THE MEET DESIGN SPECIFICATIONS.

ND GRAVEL FILTER BLANKET—PLACE THE FILTER BLANKET IMMEDIATELY AFTER THE GROUND FOUNDATION IS RED. FOR GRAVEL, SPREAD FILTER STONE IN A UNIFORM LAYER TO THE SPECIFIED DEPTH. WHERE MORE THAN YER OF FILTER MATERIAL IS USED. SPREAD THE LAYERS WITH MINIMAL MIXING.

ETIC FILTER FABRIC—PLACE THE CLOTH FILTER DIRECTLY ON THE PREPARED FOUNDATION. OVERLAP THE EDGES EAST 12 INCHES, AND SPACE ANCHOR PINS EVERY 3 FT ALONG THE OVERLAP. BURY THE UPSTREAM END OF THE A MINIMUM OF 12 INCHES BELOW GROUND AND WHERE NECESSARY, BURY THE LOWER END OF THE CLOTH OR AP WITH THE NEXT SECTION AS REQUIRED. TAKE CARE NOT TO DAMAGE THE CLOTH WHEN PLACING RIPRAP. IF OCCURS REMOVE THE RIPRAP, AND REPAIR THE SHEET BY ADDING ANOTHER LAYER OF FILTER MATERIAL WITH A IM OVERLAP OF 12 INCHES AROUND THE DAMAGED AREA. IF EXTENSIVE DAMAGE IS SUSPECTED, REMOVE AND CE THE ENTIRE SHEET.

LARGE STONES ARE USED OR MACHINE PLACEMENT IS DIFFICULT, A 4-INCH LAYER OF FINE GRAVEL OR SAND NEEDED TO PROTECT THE FILTER CLOTH.

PLACEMENT—PLACEMENT OF RIPRAP SHOULD FOLLOW IMMEDIATELY AFTER PLACEMENT OF THE FILTER. PLACE SO THAT IT FORMS A DENSE, WELL-GRADED MASS OF STONE WITH A MINIMUM OF VOIDS. THE DESIRED BUTION OF STONES THROUGHOUT THE MASS MAY BE OBTAINED BY SELECTIVE LOADING AT THE QUARRY, AND OLLED DUMPING DURING FINAL PLACEMENT. PLACE RIPRAP TO ITS FULL THICKNESS IN ONE OPERATION. DO NOT RIPRAP BY DUMPING THROUGH CHUTES OR OTHER METHODS THAT CAUSE SEGREGATION OF STONE SIZES. TAKE NOT TO DISLODGE THE UNDERLYING BASE OR FILTER WHEN PLACING THE STONES.

E OF THE RIPRAP SLOPE SHOULD BE KEYED TO A STABLE FOUNDATION AT ITS BASE AS SHOWN IN FIGURE 6.15B. SHOULD BE EXCAVATED TO A DEPTH ABOUT 1.5 TIMES THE DESIGN THICKNESS OF THE RIPRAP, AND SHOULD HORIZONTALLY FROM THE SLOPE.

IISHED SLOPE SHOULD BE FREE OF POCKETS OF SMALL STONE OR CLUSTERS OF LARGE STONES. HAND PLACING MAY BE NECESSARY TO ACHIEVE THE PROPER DISTRIBUTION OF STONE SIZES TO PRODUCE A RELATIVELY SMOOTH, UNIFORM SURFACE. THE FINISHED GRADE OF THE RIPRAP SHOULD BLEND WITH THE SURROUNDING AREA. NO OVERFALL OR PROTRUSION OF RIPRAP SHOULD BE APPARENT



RIPRAP NOT TO SCALE

## . . . . . . outh Drive NC 27511 Fax: 919-8 /.daa.com $\bigcirc$ rrgh S Cary, 1060 www ဟ Ш Σ **PLAN** STERN BLVD T HEMATIC SITE DETAILS ESC ≥ັ REVISIONS 10/24/2022 DD REVIEW SET 02/03/2023 CD REVIEW SET 03/17/2023 PROPOSED SUBDIVISION DESIGNED BY: CTC JR RAWN BY: MNM HECKED BY: CTC JR SCALE: NONE 03/17/2023 ROJECT NUMBER: 495905 C7.2





