

PLAN REVIEW COMMENTS FOR DP-10-22-017324

Town of Bluffton Department of Growth Management 20 Bridge Street P.O. Box 386 Bluffton, South Carolina 29910 Telephone 843-706-4522

Plan Type:	Development Plan	Apply Date:	10/17/2022							
Plan Status:	Active	Plan Address	:							
Case Manager:	Dan Frazier	Plan PIN #:	R610 029 000 0613 0000							
Plan Description:	preliminary development plan. The proje building and associated access, parking of approximately 1.6 acres, identified by Parcel 10-D / Raider Drive Master Plan.	Jake Reed on behalf of the property owner, University Investments, LLC for approval of a evelopment plan. The project consists of the construction of a +/-10,000 sq. ft. commercial associated access, parking, and utilities. The property is zoned Buckwalter PUD and consists tely 1.6 acres, identified by tax map number R610-029-000-0613-0000 and located within the Raider Drive Master Plan.								

Technical Review

Submission #: 1 Received:		10/17/2022	Completed: 11/18/2022						
	Reviewing Dept.		Complete Date	Reviewer	Status				
	Watershed Manage	ement Review	11/16/2022	Lidia Delhomme	Revisions Required				
	Comments:								
	requirements using the Compliance you have any questions regarding SoLoCo e@townofbluffton.com. Overall performance								
	Beaufort Jasper W Review	ater and Sewer	11/16/2022	James Clardy	Approved with Conditions				
	Comments:	mittal/ approval	l of water and sewe	r design					
	Fire Department Ro Comments: 1. For final develop determine the fire f	oment plan, prov		Dan Wiltse be and square footage, and indic	Approved with Conditions cate if fire suppression will be installed to				
	Planning Commiss	ion Review	11/18/2022	Dan Frazier	Approved with Conditions				

Comments:

1. An encroachment permit from the Beaufort County School District (owner of Raider Drive) will be required.

- 2. Existing easements will make required landscaping challenging. Demonstrate how you are meeting the tree conservation, planting and landscaping requirements of UDO Section 5.3.
- 3. Demonstrate how vehicle access for the two Palmetto Electric Cooperative ingress/egress easements will be maintained.

4. Described the proposed uses for the two large gravel areas (behind proposed building and adjacent to substation).

5. The 90/3 DSO in the Buckwalter PUD requires 8' building foundation plantings. Please delineate this area to show the landscaping can be provided.

6. Per the applications manual, the signature over seal needs to be provided by the landscape architect and the engineer.7. Show location of dumpster enclosure, if applicable. Dumpster enclosure details are not required until Final Development Plan.

Planning Review - SR	11/18/2022	Jordan Holloway	Approved with Conditions	
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Comments:

See Planning Commission Review comments

Planning Review - Address	11/18/2022	Dan Frazier	Approved ATTACHMENT 4
Comments:			
1. As designed, the structure will be	addressed off of Raider	Drive.	
Police Department Review	11/16/2022	Adam Barberio	Approved
Building Safety Review	10/18/2022	Richard Spruce	Approved
Transportation Department Review	10/18/2022	Megan James	Approved
Comments:			

No comment

Plan Review Case Notes:



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SITE DEVELOPMENT PLANS RAIDER DRIVE BEAUFORT COUNTY, SC

SITE DEVELOPMENT TABLE

TOTAL ACREAGE: 1.6 ACRES ZONING: PUD PERVIOUS AREA: 49,327 SF IMPERVIOUS AREA: 20,369 SF BUILDING SQUARE FOOTAGE: 10,000 SF PARKING SPACES: 28

PREPARED BY:

CAROLINA ENGINEERING CONSULTANTS, INC.

PO BOX 294 BEAUFORT, SC 29901

WWW.CAROLINAENGINEERING.COM

RAIDER DRIVE

BJWSA NO. XXXX-XXX

GENERAL NOTES

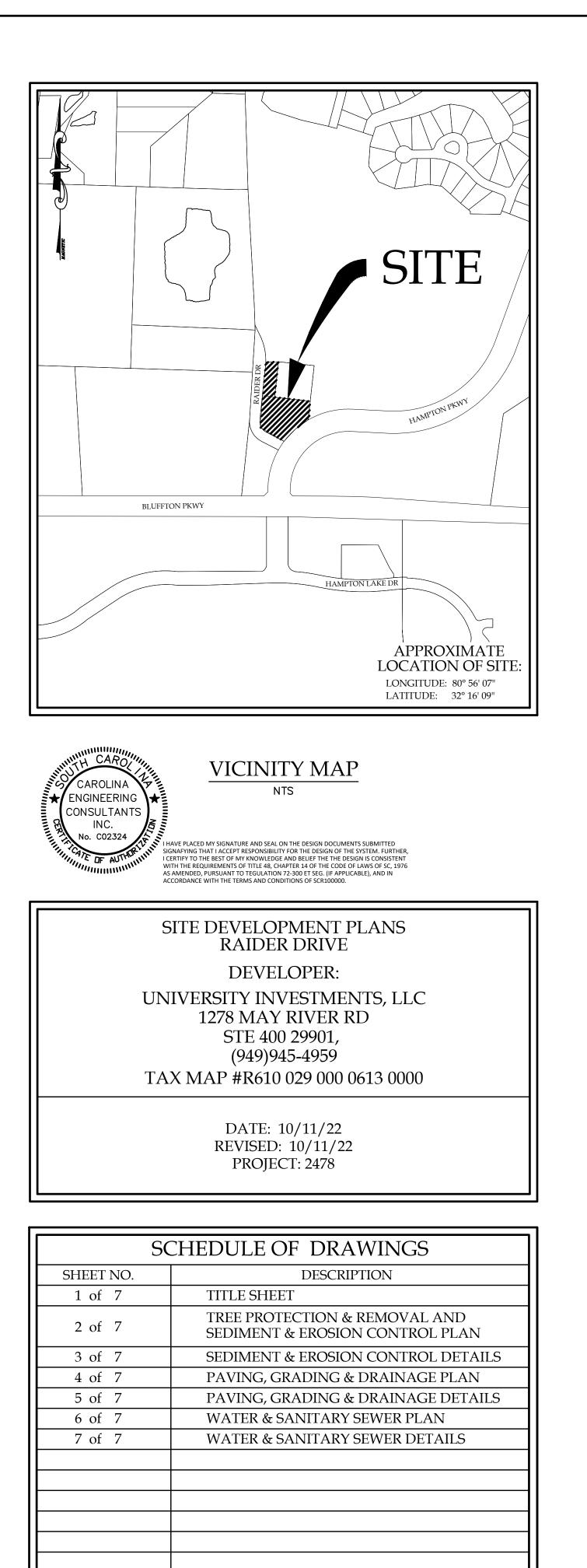
CONTRACTOR TO IDENTIFY & LOCATE ALL UNDERGROUND UTILITIES PRIOR TO STARTING CONSTRUCTION. CONTRACTOR RESPONSIBLE FOR TRAFFIC CONTROL & SAFETY DURING CONSTRUCTION.

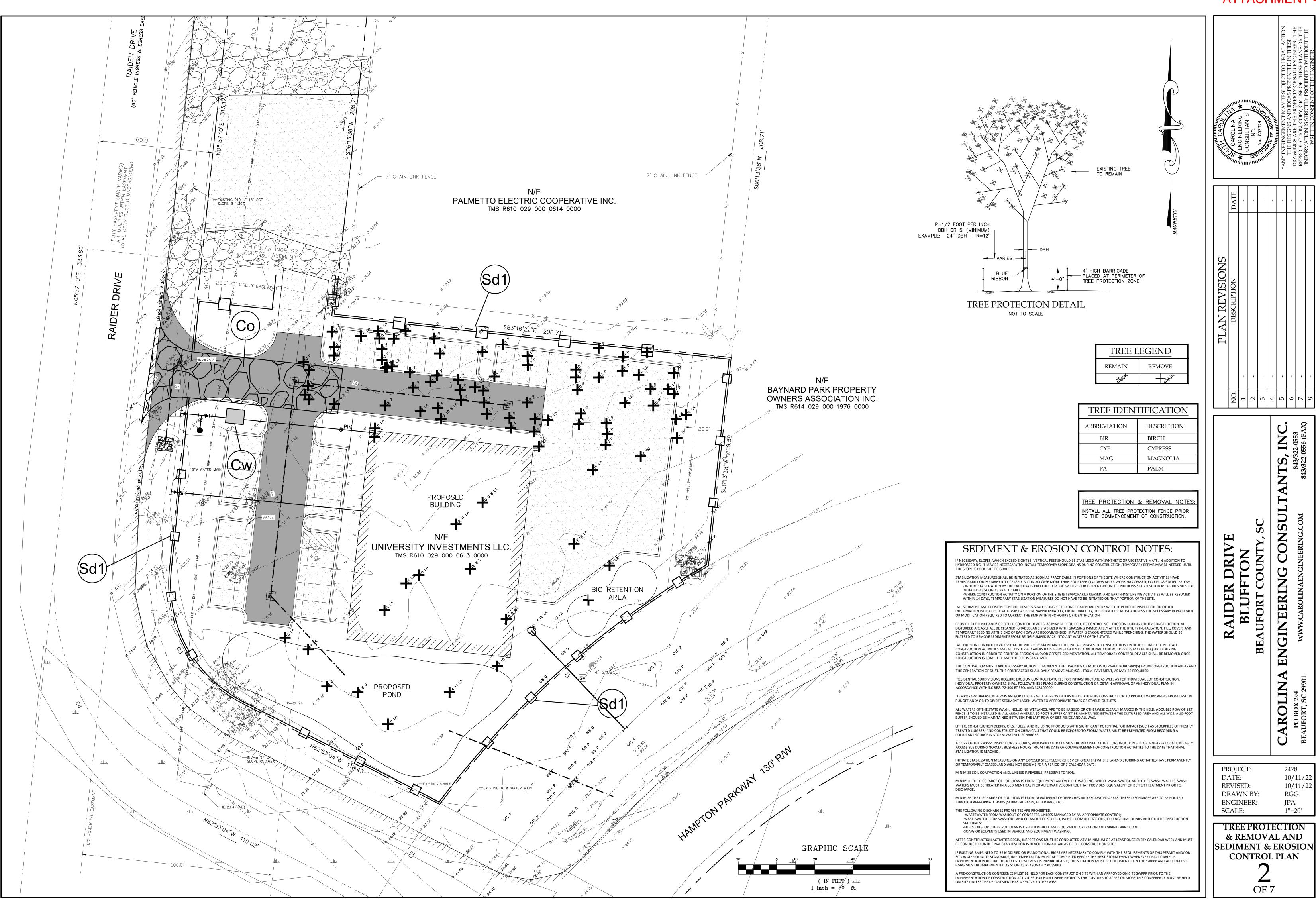
CONTRACTOR RESPONSIBLE FOR SECURING SITE DURING NON-WORKING HOURS TO ENSURE TRAFFIC & PEDESTRIAN SAFETY. REFERENCE DATUM: NAVD 88

(843)322-0553 (843)322-0556 (FAX)

3 DAYS BEFORE DIGGING IN SOUTH CAROLINA CALL 1-888-721-7877 PALMETTO UTILITY PROTECTION SERVICE

ATTACHMENT 4





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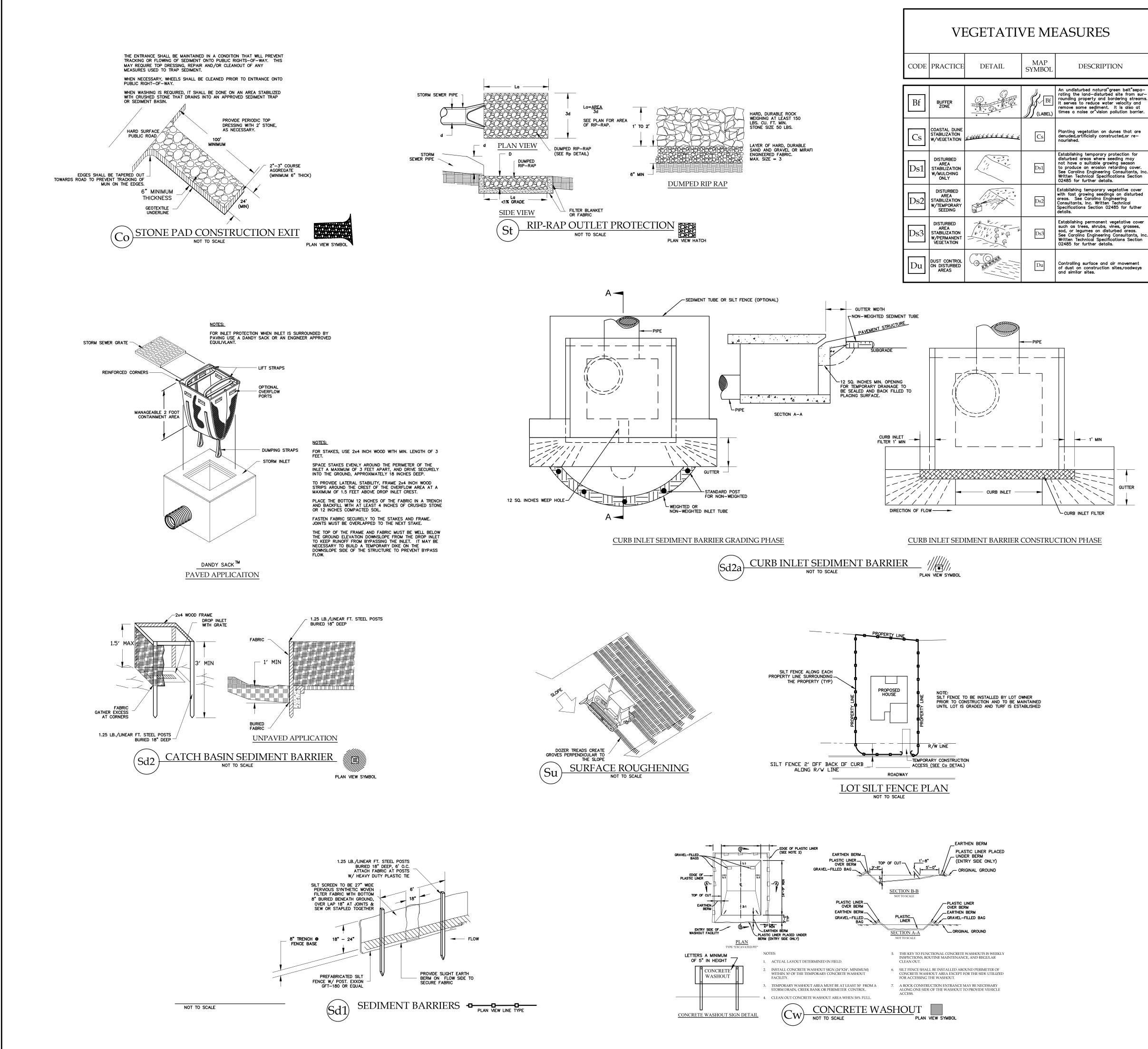
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SEEDING.

Ds1 MULCHING NOTES MULCHING:

USE MULCH ON ALL SLOPES STEEPER THAN 3%; WHEN SEEDINGS ARE MADE SO LATE IN THE FALL AND WINTER THAT GERMINATION CANNOT BE EXPECTED UNTIL SPRING; IN THE BOTTOM OF SPILLWAYS; AND ON ROADBANKS. TEMPORARY VEGETATION SEEDED ALONE MAY BE ESTABLISHED ON GOOD SITES WITHOUT THE USE OF MULCH. MULCHING MATERIAL WILL CONSIST OF:

A. USE DRY STRAW OR DRY HAY OF GOOD QUALITY AND FREE OF WEED SEEDS. DRY STRAW WILL BE APPLIED AT THE RATE OF 2 TONS PER ACRE. DRY HAY WILL BE USED AT A RATE OF 2.5 TONS PER ACRE; OR, B. FOR HYDRAULIC SEEDING, USE WOOD CELLULOSE MULCH OR WOOD PULP FIBER AT THE RATE OF 500 POUNDS PER ACRE AND DRY STRAW OR DRY HAY AT THE RATE LISTED IN "A" ABOVE; OR, C. FOR HYDRAULIC SEEDING ON SLOPES 3/4:1 OR STEEPER, 1,000 POUNDS OF WOOD CELLULOSE OR WOOD PULP FIBER WHICH INCLUDES A TACKIFIER MAY BE SUBSTITUTED FOR THE TREATMENT IN "B" ABOVE; OR,

D. USE THREE TONS PER ACRE OF SERICEA LESPEDEZA HAY CONTAINING MATURE SEED; OR, E. APPLY PINE STRAW OR PINE BARK AT A THICKNESS OF 3 INCHES. OTHER SUITABLE MATERIALS IN SUFFICIENT QUANTITY MAY BE USED WHERE ORNAMENTALS OR OTHER GROUND COVERS ARE PLANTED; OR, F. SOIL RETENTION BLANKETS, EROSION CONTROL NETTING, OTHER MANUFACTURED MATERIALS, OR BLOCK SOD MAY BE REQUIRED IN ADDITION TO MULCH ON UNSTABLE SOILS AND CONCENTRATED FLOW AREAS. WOOD CELLULOSE AND WOOD PULP FIBERS SHALL NOT CONTAIN GERMINATION OR GROWTH INHIBITING FACTORS. THEY WILL HAVE THE PROPERTY TO BE EVENLY DISPERSED WHEN AGITATED IN WATER. THE FIBERS SHALL HAVE A CONTRASTING COLOR TO THE SOIL TO ALLOW VISUAL METERING AND AID IN UNIFORM APPLICATION DURING SEEDING

APPLYING MULCH: A. STRAW OR HAY MULCH WILL BE SPREAD UNIFORMLY WITHIN 24 HOURS AFTER SEEDING AND OR PLANTING. THE MULCH MAY BE SPREAD BY BLOWER TYPE SPREADING EQUIPMENT, OTHER SPREADING EQUIPMENT, OR BY HAND. ABOUT 75% OF THE SOIL SURFACE WILL BE COVERED.

B. WOOD CELLULOSE OR WOOD FIBER MULCH WILL BE APPLIED WITH HYDRAULIC SEEDING EQUIPMENT. ANCHORING MULCH: A. ANCHOR STRAW OR HAY MULCH IMMEDIATELY AFTER APPLICATION BY ONE OF THE FOLLOWING METHODS:

1. BY EMULSIFIED ASPHALT, (A) SPRAYED UNIFORMLY ONTO THE MULCH AS IT IS EJECTED FROM THE BLOWER MACHINE, OR (B) SPRAYED ON THE MULCH IMMEDIATELY FOLLOWING MULCH APPLICATION WHEN STRAW OR HAY IS SPREAD BY METHODS OTHER THAN SPECIAL BLOWER EQUIPMENT. THE COMBINATION OF ASPHALT EMULSION AND WATER SHALL CONSIST OF A HOMOGENEOUS MIXTURE SATISFACTORY FOR SPRAYING. THE MIXTURE SHALL CONSIST OF 100 GALLONS OF GRADE SS-1H OR CSS-1H EMULSIFIED ASPHALT AND 100 GALLONS OF WATER PER TON OF MULCH. CARE SHALL BE TAKEN AT ALL TIMES TO PROTECT THE PUBLIC, ADJACENT PROPERTY, PAVEMENTS, CURBS, SIDEWALKS, AND ALL OTHER STRUCTURES FROM ASPHALT DISCOLORATION. 2. PRESS THE MULCH INTO THE SOIL IMMEDIATELY AFTER THE MULCH IS SPREAD. A SPECIAL "PACKER DISK" OR DISK HARROW WITH THE DISKS SET STRAIGHT MAY BE USED. THE DISKS MAY BE SMOOTH OR SERRATED AND SHOULD BE 20 INCHES OR MORE IN DIAMETER AND 8 TO 12 INCHES APART. THE EDGES OF THE DISKS SHALL BE DULL ENOUGH TO PRESS THE MULCH INTO THE GROUND WITHOUT CUTTING IT, LEAVING MUCH OF IT IN AN ERECT POSITION.

3. APPLY SYNTHETIC TACKIFIERS OR BINDERS APPLIED IMMEDIATELY AFTER THE MULCH IS SPREAD. SYNTHETIC ACKIFIERS WILL BE MIXED AND APPLIED TO MANUFACTURER'S SPECIFICATIONS.

FALL AND WINTER PLANTINGS MAY INCLUDE 1/2 BUSHEL OF RYE OR WHEAT TO STABILIZE THE MULCH. 5. PLASTIC MESH OR NETTING WITH NO LARGER THAN ONE INCH BY ONE INCH MESH MAY BE NEEDED TO ANCHOR STRAW OR HAY MULCH ON UNSTABLE SOILS AND CONCENTRATED FLOW AREAS. B. WHERE WOOD CELLULOSE OR WOOD PULP FIBER MULCH IS APPLIED ALONE, A TACKIFIER WILL BE USED. LIME AND MAINTENANCE APPLICATION:

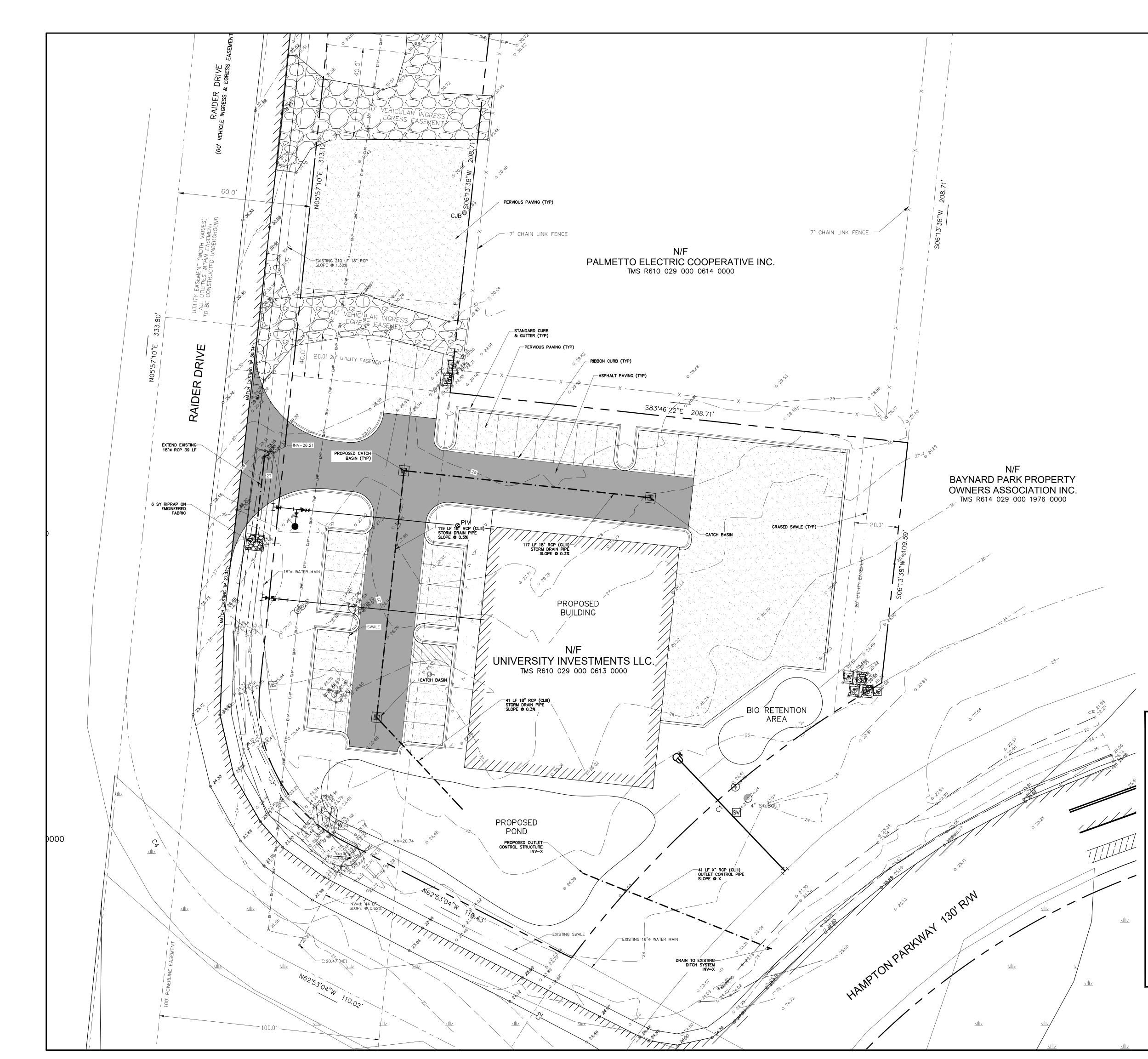
APPLY ONE TON OF AGRICULTURAL LIME EVERY 4 TO 6 YEARS.

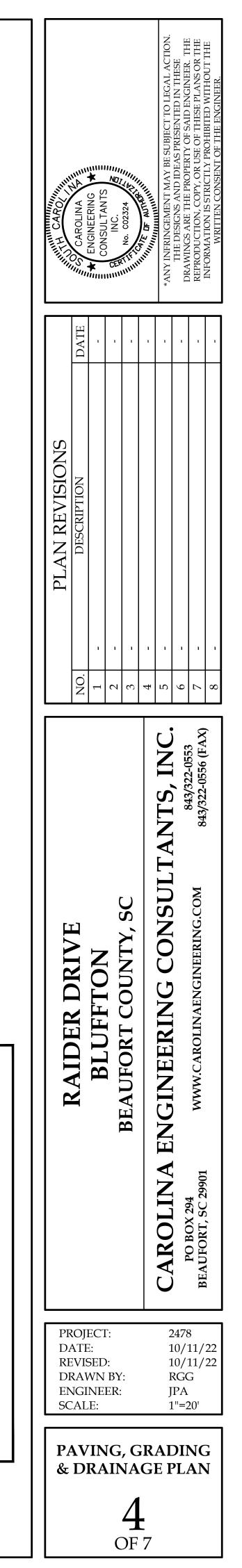
SPECIES	LBS/AC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
TEMPORA	RY SEEDING	(COA	STAL)	WELL	. DRA	INED,	CLAY	EY/L	DAMEY	' site	S		
BROWNTOP MILLET	40LBS/AC												
RYE, GRAN	56LBS/AC												
RYEGRASS	50LBS/AC												
TEMPORA	ARY SEEDING	(COA	STAL) WEL	L DRA	NED,	CLA'	rey/l	OAMY	SITE	5		
BROWNTOP MILLET OR JAPANESE MILLET	40LBS/AC												
RYE, GRAN OR OATS	56LBS/AC 75LBS/AC												
RYEGRASS	50LBS/AC												
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BROWNTOP MILLET BAHIAGRASS SERICEA LESPEDEZA	10LBS/AC 30LBS/AC 40LBS/AC												
BROWNTOP MILLET ATLANTIC COASTAL PANICGRASS	10LBS/AC 15LBS/AC PLS												
BROWNTOP MILLET SWITCHGRASS (ALAMO) LITTLE BLUESTEM SERICEA LESPEDEZA	10LBS/AC 8LBS/AC PLS 4LBS/AC 20LBS/AC			_									
BROWNTOP MILLET WEEPING LOVEGRASS	10LBS/AC 8LBS/AC												
PERMANE	NT SEEDING	(COA	STAL)	WELL	DRA	INED,	CLAY	EY/L		' SITE	s		
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RYE, GRAIN BAHIAGRASS CLOVER, CRIMSON (ANNUAL)	10LBS/AC 40LBS/AC 5LBS/AC									_		-	
BROWNTOP MILLET BAHIAGRASS SERICEA LESPEDEZA	10LBS/AC 10LBS/AC 40LBS/AC												
BROWNTOP MILLET BERMUDA, COMMON KOBE LESPEDEZA (ANNUAL)	10LBS/AC 12LBS/AC 10LBS/AC												
BROWNTOP MILLET BAHIAGRASS BERMUDA, COMMON SERICEA LESPEDEZA	10LBS/AC 20LBS/AC 6LBS/AC 40LBS/AC												
BROWNTOP MILLET SWITCHGRASS LITTLE BLUESTEM INDIANGRASS	10LBS/AC 8LBS/AC PLS 3LBS/AC PLS 3LBS/AC PLS												

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ACTIVITY SCHEDULE															
ACTIVITY	-	2	e	4	5	9	7	8	6						JLE
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MINIMAL CLEARING AND GRUBBING		X	1												EROSION CONTROL PHASE 1
CLEARING AND GRUBBING			X	1											EROSION CONTROL PHASE 1
POND INSTALLATION				X										Γ	CONSTRUCTION PHASE 2
CUT AND FILL	Γ			\mathbb{N}	\mathbb{N}	1									CONSTRUCTION PHASE 2
GRASSING (LIMIT EXPOSURE TO 7 DAYS)	Γ			Γ		X	1							Γ	CONSTRUCTION PHASE 2
UTILITY INSTALLATION	Γ					X	\mathbb{X}	X	\mathbb{X}	\mathbb{X}	1			Γ	CONSTRUCTION PHASE 2
ROADWAY CONSTRUCTION	Γ								X	\mathbb{X}	\mathbb{X}	1			CONSTRUCTION PHASE 2
FINISH GRADING	Γ										X	\mathbb{N}	Γ		CONSTRUCTION PHASE 2
REMOVE SEDIMENT FROM POND AND LINE	Γ			Γ									X	\mathbb{X}	STABILIZATION PHASE 3
FINAL STABILIZATION	Γ			Γ									X	\mathbb{N}	STABILIZATION PHASE 3
MAINT. EROSION CONTROL MEASURES	X	[Tr			ЭНС	I UT	ับ	FE	OF	P	RO RO	JEO		K	ALL PHASES
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PAVING, GRADING & DRAINAGE NOTES: CAROLINA ENGINEERING CONSULTANTS, INC.'S WRITTEN CONSTRUCTION SPECIFICATIONS WILL BE FOLLOWED ON THIS JOB. IF CONTRACTOR NEEDS COPY OF THESE SPECIFICATIONS, PLEASE CONTACT CAROLINA ENGINEERING.

GENERAL NOTES,

TOPOGRAPHY, BOUNDARY, WETLAND AND BASE INFORMATION PROVIDED BY ATLAS LAND SURVEYING.

BENCHMARKS ARE TO BE VERIFIED BY CONTRACTOR.

CONTRACTOR SHALL VERIFY ALL MANHOLE AND INVERT ELEVATIONS BEFORE STARTING WORK.

CONTRACTOR IS RESPONSIBLE FOR LOCATING ALL EXISTING UTILITIES.

SILT FENCE AND TREE FENCES TO BE IN PLACE PRIOR TO COMMENCING WORK.

MAINTAIN A 10' HORIZONTAL SEPARATION BETWEEN SANITARY SEWER AND WATER MAINS. WHERE THIS SEPARATION CANNOT BE MAINTAINED OR THE LINES CROSS, THE BOTTOM OF THE WATER MAIN SHALL BE 18" ABOVE THE TOP OF THE SEWER MAIN LAID IN SEPARATE TRENCHES.

WHERE NEW CONSTRUCTION IS NEAR THE EDGE OF AN EXISTING PAVED ROADWAY, A TRAFFIC LANE WILL BE TEMPORARILY CLOSED TO PROVIDE SAFETY TO THE PUBLIC AND TO THE WORKMEN. NO LANE CLOSURES DURING 7:00 AM TO 9:00 AM OR FROM 3:30 PM TO 6:00 PM ARE ALLOWED.

APPLICANT WILL REPAIR ALL DAMAGE DONE TO ROADSIDE AND RESEED WITH PERMANENT GRASS.

TRAFFIC CONTROLS FOR THIS INSTALLATION SHALL BE IN ACCORDANCE WITH S.C.M.U.T.C.D.

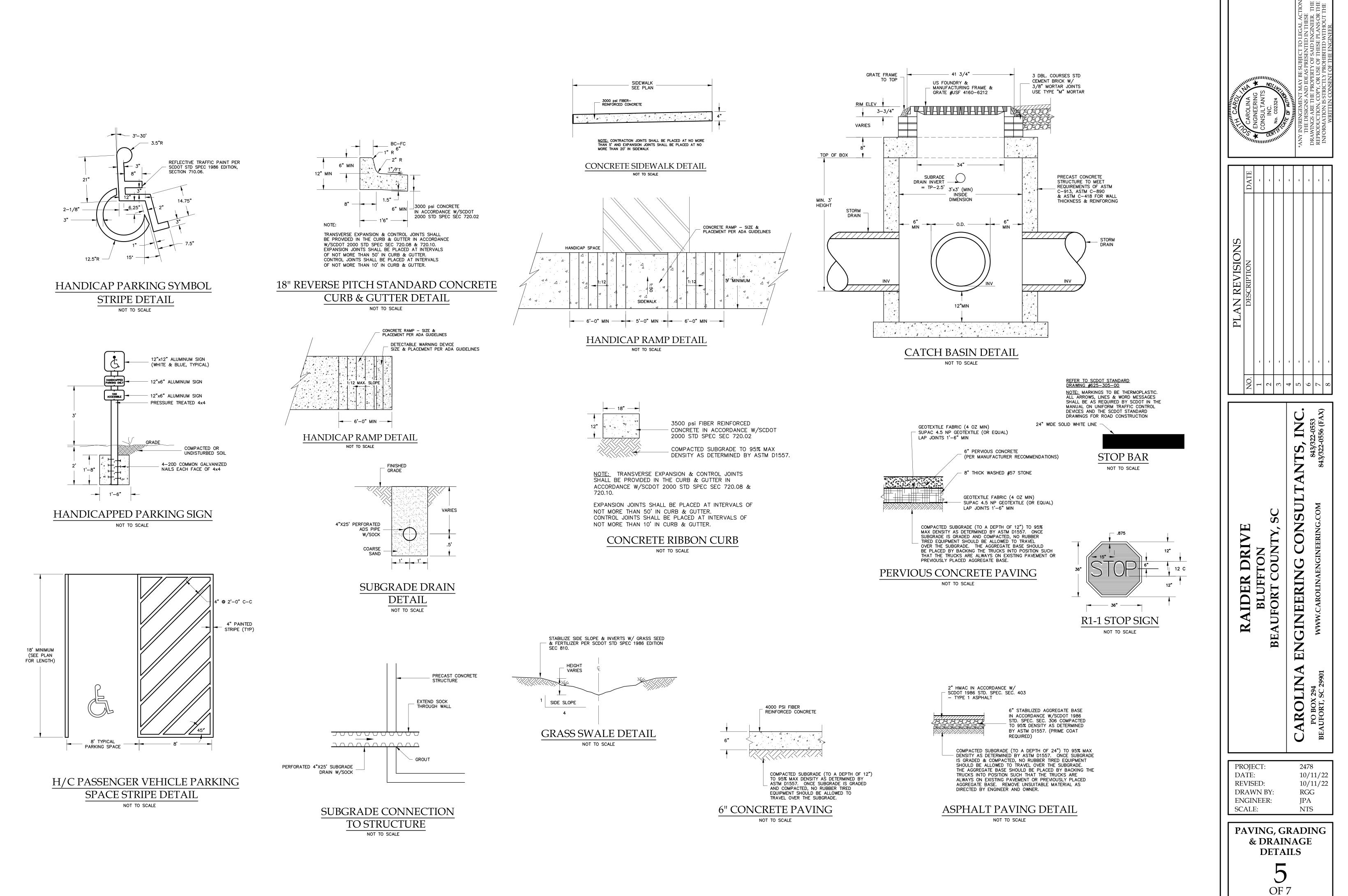
PAVEMENT MARKING LINES TO BE THERMOPLASTIC.

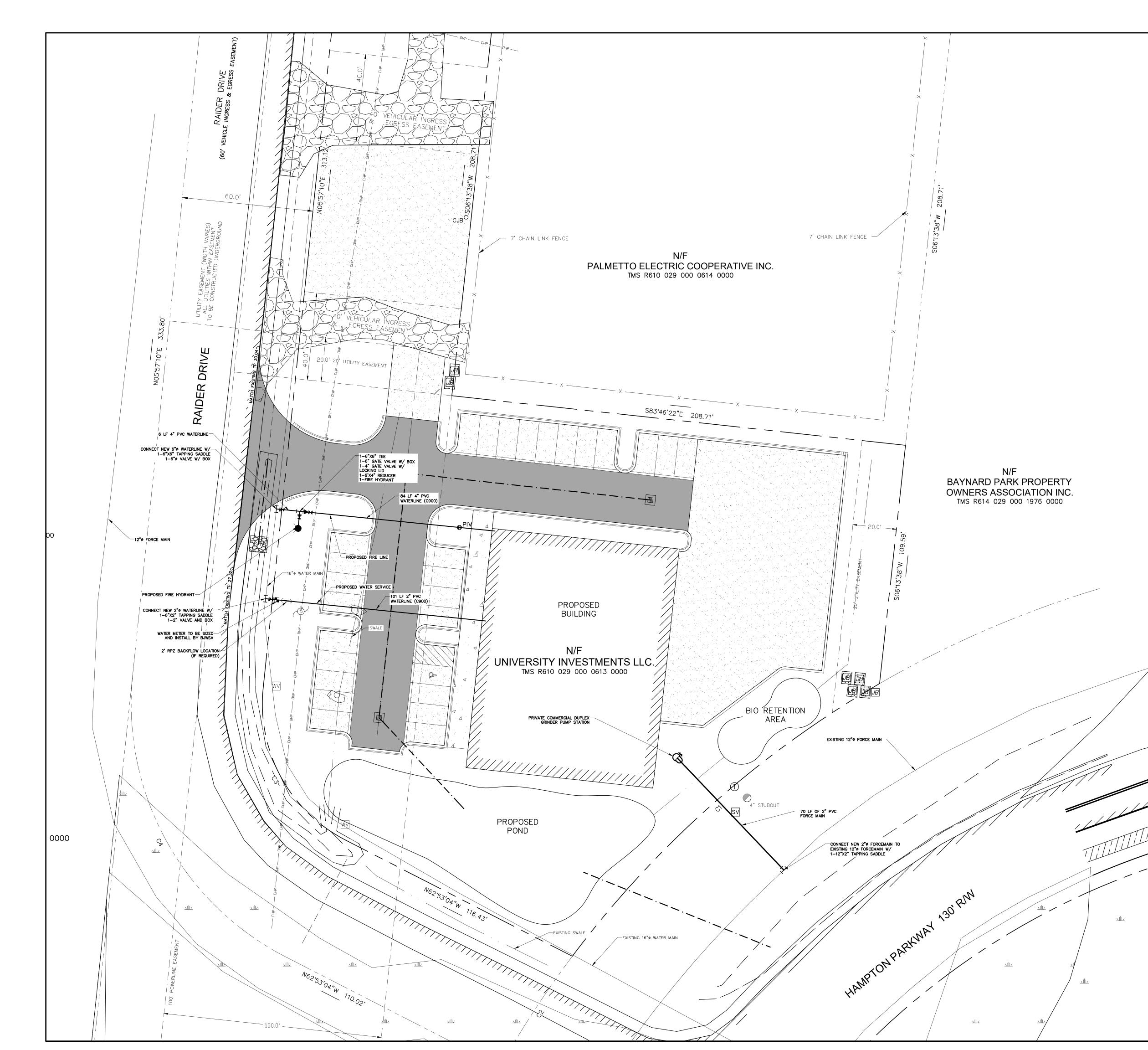
RAISED REFLECTIVE PAVEMENT MARKER RRPM'S TO BE INSTALLED IN ACCORDANCE WITH SCDOT'S STANDARD DRAWINGS NO. 603-1 THRU 603-8 JULY, 1997.

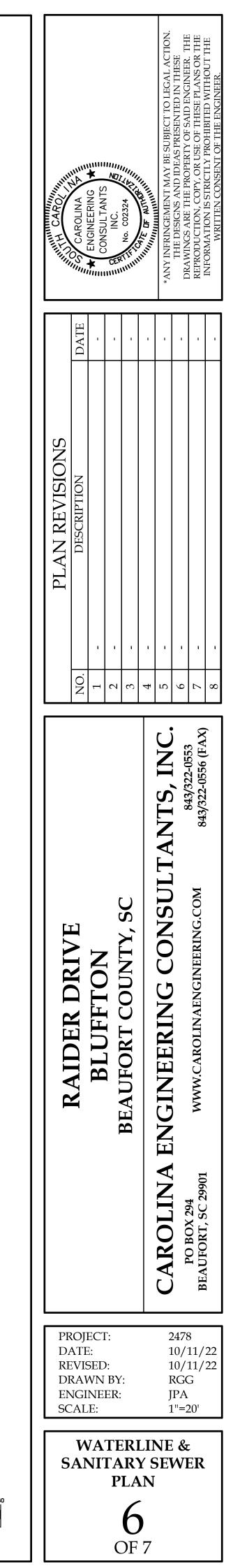
ALL PROPOSED SIGNAGE AND PAVEMENT MARKINGS SHOULD BE IN ACCORDANCE WITH THE 2003 EDITION OF THE MUTCD.

(IN FEET)

1 inch = 20 ft.











BENCHMARKS ARE TO BE VERIFIED BY CONTRACTOR.

MAINTAIN A 10' HORIZONTAL SEPARATION BETWEEN SANITARY SEWER AND WATER MAINS.

WHERE THIS SEPARATION CANNOT BE MAINTAINED OR THE LINES CROSS THE BOTTOM OF THE WATER MAIN, THERE SHALL BE 18" ABOVE THE TOP OF THE SEWER MAIN LAID IN SEPARATE TRENCHES.

SEWER LATERALS SHALL BE LAID WITH A MINIMUM SLOPE OF 1.0% AS SHOWN ON PLANS.

METERS TO BE PROVIDED AND SET BY BJWSA.

MAINTAIN A 5' HORIZONTAL SEPARATION BETWEEN SANITARY SEWER LINES AND STORM DRAINAGE LINES.

GRAPHIC SCALE (IN FEET) 1 inch = 20 ft.

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