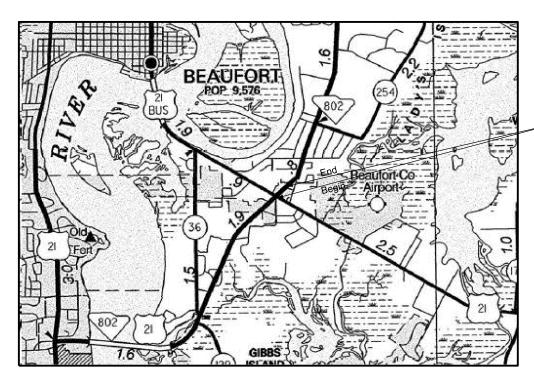
### SHEET INDEX

SHEET NO.	DESCRIPTION	SHEET	TOTALS
1	TITLE SHEET		1
2	ESTIMATED QUANTITIES		1
3	TYPICAL SECTION		1
4	RIGHT OF WAY DATA SHEET		1
4A	PROPERTY STRIP MAP		1
5	GENERAL NOTES		1
5A	REFERENCE DATA SHEET		1
6–7	PLAN AND PROFILE SHEETS		2
8	TOP OF CURB PROFILE SHEET	•	1
EC1-EC2	GENERAL EROSION CONTROL	NOTES	2
PM1	PAVEMENT MARKINGS SHEET		1
X1–X5	CROSS SECTIONS		5
		TOTAL	18

## BEAUFORT COUNTY



# PLAN AND PROFILE OF SAMS POINT ROAD (SC-802) RIGHT TURN LANE AT SEA ISLAND PARKWAY (US 21)



LAYOUT

	SAMS POINT ROAD	TOTAL (MILES)
NET LENGTH OF ROADWAY	0.13	0.13
NET LENGTH OF BRIDGES	_	_
NET LENGTH OF PROJECT	0.13	0.13
LENGTH OF EXCEPTIONS	_	-
GROSS LENGTH OF PROJECT	0.13	0.13

EQUALITIES IN STATIONING: NONE

EXCEPT AS MAY OTHERWISE BE SPECIFIED ON THE PLANS OR IN THE SPECIAL PROVISIONS: ALL MATERIALS AND WORKMANSHIP ON THIS PROJECT SHALL CONFORM TO THE SOUTH CAROLINA DEPARTMENT OF TRANSPORTATION STANDARD SPECIFICATIONS FOR HIGHWAY CONSTRUCTION (2007 EDITION) AND THE STANDARD DRAWINGS FOR ROAD CONSTRUCTION IN EFFECT AT THE TIME OF LETTING.

### CONTACT INFORMATION

SAMS POINT ROAD (SC-802)

BEGIN CONSTRUCTION ST A. 10+16.06 END CONSTRUCTION

ST A. 17+29.00

## INFRASTRUCTURE CONSULTING & ENGINEERING

CLARKE HINSON, PE PROJECT MANAGER 115 FAIRCHILD STREET, STE 100 BEAUFORT, SC 29902 CHARLESTON, SC 29492

## BEAUFORT COUNTY

J. ROBERT MCFEE 2266 BOUNDARY STREET

### NPDES PERMIT INFORMATION

SC-802

Disturbed Area = \_\_\_\_\_0.41\_\_\_ Acre(s) Project Area = 2.41 Acre(s)

Approximate Location of Roadway is

BEAUFORT

32°24'49.84" N Latitude Longitude <u>80°39'01.15" W</u>

32°24'56.50" N Latitude Longitude 80°38'52.52" W

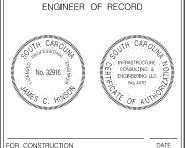
Hydraulic and NPDES Design provided by: INFRASTRUCTURE, CONSULTING & ENGINEERING

Designs may be obtained from the SCDOT Regional Production Group

#### For Right Of Way Acquisition:

CONSULTING ENGINEERING FIRM

**TEINFRASTRUCTURE** CONSULTING & ENGINEERING



TRAFFIC DATA 2019 ADT 21,300

From the 2017 Roadway Design Manual

Hydraulic Design Reference for these plans is the:

Edition of SCDOT's "Requirements for Hydraulic Design Studies"

Design Reference for these plans is the:

3R These Plans Were Designed Using "3R" Principles

**ENVIRONMENTAL PERMIT INFORMATION** 

\_\_\_USACE

NEPA DOCUMENT 401 CERTIFICATION \_X\_NO OCRM CAP \_X\_NO

USACE PERMIT

NAVIGABLE WATERS \_\_\_SC

### 3 DAYS BEFORE DIGGING IN **CALL 811**

\_\_\_USCG

SOUTH CAROLINA 811 (SC811) WWW.SC811.COM ALL UTILITIES MAY NOT BE A MEMBER OF SC811

RAILROAD INVOLVEMENT?

STATE	COUNTY	FILE NO.	PROJECT NO	ROUTE NO.	SHEET NO,
SC	BEAUFORT			SC-802	2

# SUMMARY OF ESTIMATED QUANTITIES

PAY ITEM	DESCRIPTION	QUANTITY	UNIT
1031000	MOBILIZATION	1	LS
1032010	BONDS AND INSURANCE	1	LS
1050800	CONSTRUCTION STAKES, LINES & GRADES	1	EA
1071000	TRAFFIC CONTROL	1	LS
1090200	AS-BUILT CONSTRUCTION PLANS	1	LS
2012000	CLEARING & GRUBBING WITHIN ROADWAY	1	LS
2016010	LIMB TRIMMING	1	LS
2021015	REMOVAL & DISPOSAL OF EXISTING MANHOLE	1	EA
2024100	REMOVAL & DISPOSAL OF EXISTING CURB	761	LF
2031200	SITE EXCAVATION	1	LS
2027000	REMOVAL & DISPOSAL OF EXISTING CONCRETE	300	SY
2025000	REMOVAL & DISPOSAL OF EXISTING ASPHALT PAVEMENT	95	SY
2081001	FINE GRADING	1436	SY
2103000	FLOWABLE FILL	180	CY
3069900	MAINTENANCE STONE	6.5	TON
3100310	HOT MIX ASPHALT BASE COURSE - TYPE A	357.8	TON
4011004	LIQUID ASPHALT BINDER PG64-22	26.6	TON
4013990	MILLING EXISTING ASPHALT PAVEMENT (VARIABLE)	86	SY
4020320	HOT MIX ASPHALT INTERMEDIATE COURSE TYPE B	95.4	TON
4030320	HOT MIX ASPHALT SURFACE COURSE TYPE B	104.0	TON
6021120	PERMANENT CONSTRUCTION SIGNS (GROUND MOUNTED)	200	SF
6250005	4" WHITE BROKEN LINES (GAPS EXCL.)-FAST DRY PAINT	385	LF
6250010	4" WHITE SOLID LINES (BVT. EDGE LINES)-FAST DRY PAINT	385	LF
6250012	6" WHITE SOLID LINES (PVT. EDGE LINES)-FAST DRY PAINT	1023	LF
6250015	8" WHITE SOLID LINES - (CROSSWALKS & CHANNELIZATION) - FAST DRY PAINT	363	LF
6250015	24" WHITE SOLID LINES - (STOP/DIAGONAL LINES) - FAST DRY PAINT	84	LF
6250025	WHITE SINGLE ARROW (LEFT, STRAIGHT, RIGHT)-FAST DRY PAINT	12	EA
6250035	WHITE WORD MESSAGE "ONLY"-FAST DRY PAINT	6	EA
6271005	4" WHITE BROKEN LINES (GAPS EXCL.) THERMOPLASTIC - 90 MIL.	385	LF
6271003	6" WHITE SOLID LINES (PVT. EDGE LINES) THERMOPLASTIC - 90 MIL.	1023	LF
6271015	8" WHITE SOLID LINES THERMOPLASTIC - 125 MIL.	363	LF
6271015	24" WHITE SOLID LINES (STOP/DIAG LINES) - THERMO 125 MIL.	84	LF
6271023	<u> </u>	12	EA
6271030	WHITE SINGLE ARROWS (LT, STRGHT, RT) THERMO125 MIL. WHITE WORD MESSAGE "ONLY" - THERMOPLASTIC - 125 MIL.	6	EA EA
6319505	REMOVAL OF PAVEMENT MARKINGS (ARROW/ONLY)	4	EA EA
6319505	REMOVAL OF PAVEMENT MARKINGS (ARROW) ONLY)	684	LF
6301100	PERMANENT YELLOW PAVEMENT MARKERS BI-DIR 4"X4"	9	EA
6510105		8	SF
6531215	FLAT SHEET, TYPE III, FIXED SZ. & MSG. SIGN  U-SEC POST FOR SGN BRACE - 2P	20	LF
6750275	1.0" SCHEDULE 80 PVC CONDUIT	50	LF
6750278	2.0" SCHEDULE 80 PVC CONDUIT	100	LF
6760060			LF
	2" SCH 80 HDPE CONDUIT (TRENCHLESS)	250	LF
6770389 6770393	NO. 14 COPPER WIRE, 4 CONDUCTOR - GRAY	250	LF LF
	NO. 14 COPPER WIRE, 8 CONDUCTOR - BLACK	250	
6770416	CATERGORY 5 CABLE -SHIELDED	25	LF
6770470	FIBER OPTIC CABLE-SINGLE MODE	250	LF
6800518	13"X24"X18:D. ELECT FLUSH UNDERGROUND ENCLOSURE	2	EA
6865721	12" 5 SECTION SIGNAL HEAD	1	EA
6865834	BACK PLATE W/ RETROREFLECTIVE BORDERS	1	EA

PAY ITEM	DESCRIPTION	QUANTITY	UNIT
6885990	REMOVAL, SALVAGE, & DISPOSAL OF EXISTING TRAFFIC SIGNAL EQUIPMENT	1	EA
6885992	TEMPORARY ADJUSTMENT OF TRAFFIC SIGNAL EQUIPMENT	2	EA
6885996	TEMPORARY TIMING ADJUSTMENTS PER SITE VISIT	2	EA
7141144	24"X 38" HORIZONTAL ELLIPTICAL(HE) RC PIPE CULCLASS HE-III	80	LF
7143618	18" SMOOTH WALL PIPE	181	LF
7191605	CATCH BASIN -TYPE 16	4	EA
7191650	CATCH BASIN -TYPE 18	1	EA
7192105	MANHOLE	5	EA
7197120	ADJUST MANHOLE	1	EA
7198495	MANHOLE-CONVERT CATCH BASIN	7	EA
7203210	CONCRETE CURB AND GUTTER(2'-0") VERTICAL FACE	720	LF
7204100	CONCRETE SIDEWALK (4" UNIFORM)	307	SY
7204900	DETECTABLE WARNING MATERIAL	20	SF
7205000	CONCRETE DRIVEWAY(6" UNIFORM)	26	SY
7209000	PEDESTRIAN RAMP CONSTRUCTION	100	SY
8041020	RIP-RAP (CLASS B)	4.0	TON
8048200	GEOTEXTILE FOR EROSION CONTROL UNDER RIP RAP	8	SY
8091010	RIGHT OF WAY MARKER(REBAR&CAP)	3	EA
8091050	RIGHT OF WAY PLAT	1	LS
8100100	PERMANENT COVER	0.3	ACRE
8100100	TEMPORARY COVER	0.3	ACRE
		0.3	ACRE
8101110	STRAW OR HAY MULCH WITH TACKIFIER		
8104005	FERTILIZER (NITROGEN)	30	LB
8104010	FERTILIZER (PHOSPHORIC ACID)	30	LB
8104015	FERTILIZER (POTASH)	30	LB
8105005	AGRICULTURAL GRANULAR LIME	600	LB
8109901	MOWING	0.6	ACRE
8152006	INLET STRUCTURE FILTER- TYPE F (NON-WEIGHTED)	5	EA
8153000	SILT FENCE	532	LF
8156200	CLEANING INLET STRUCTURE FILTERS	10	EA
8156219	INLET STRUCTURE FILTER - TYPE A	8	EA
<u> </u>			<u> </u>







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REV. NO.	Е	3Y	DATE		DESCR	RIPTION OF REVISION	
DESIGNE	D BY:	RNT		DATE	XXXXXXXX		
DRAWN	BY:	RNT		DATE	XXXXXXXX		
CHECKE	D BY:	JCH		DATE	XXXXXXXX		SHEET

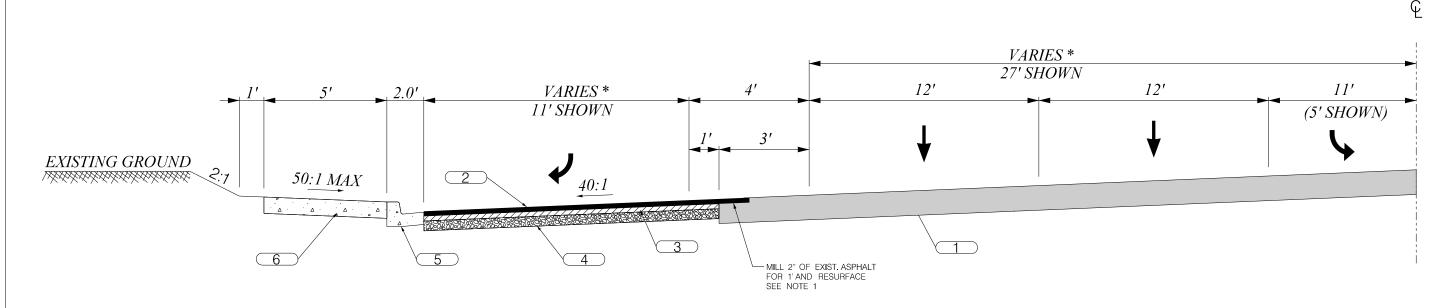
BEAUFORT COUNTY CITY OF BEAUFORT

SAMS POINT ROAD (SC-802) SUMMARY OF ESTIMATED QUANTITIES

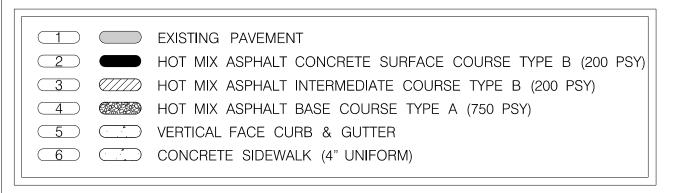
SHEET 2 SCALE: NTS

## TYPICAL SECTION





USE THIS SECTION ON SAMS POINT ROAD (SC-802) STA. 10+16.06 TO STA. 17+29.00



### NOTE 1

MILL THE EXISTING PAVEMENT TO CREATE A CLEAN JOINT

\* SEE CROSS SECTION SHEETS X1-X5

RTE. SC-8	02 DESIGN	SPEED		
MPH	FROM STA.	TO STA.		
45	10 + 16.06	17 + 29.00		
EXCEPTIO	NS TO DESIGN SP	EED		
FUNC	TIONAL CLASSIFICAT	ION		

URBAN ARTERIAL

**IEINFRASTRUCTURE** CONSULTING & ENGINEERING





4							BEAUFORT COUNTY
3							CITY OF BEAUFORT
2							
1							SAMS POINT ROAD (SC-802)
REV. NO.	BY	DATE	DESC	RIPTION OF REVISION			TYPICAL SECTIONS
DESIGNE	D BY: RNT		DATE XXXXXXXX				THIOME SECTIONS
DRAWN	BY: RNT		DATE XXXXXXXXX				
CHECKE	D BY: <u>JCH</u>		DATE XXXXXXXXX		SHEET	3	SCALE: NTS

STATE	COUNTY	FILE NO.	PROJECT NO.	ROUTE NO.	SHEET NO,
SC	BEAUFORT			SC-802	4

# RIGHT OF WAY DATA SHEET

NO.	PROPERTY OWNER	TAX MAP	TOTAL TRACT		ОВ	TAIN	1	REMAINDER LEFT	REMAINDER RIGHT	DATE	TYPE OF	OUTFALL DITCH	SLOPE	DRAINAGE STRUCTURE	EROSION CONTROL	ENTRANCE CONSTRUCTION	REMARKS	
		REFERENCE	ACRES	OUTFALL DITCH ACRES	LEFT	RIGHT	TOTAL	ACRES	ACRES	ACQUIRED	INSTRUMENT	PERMISSION (YES)	PERMISSION (YES)	PERMISSION (YES)	PERMISSION (YES)	CONSTRUCTION PERMISSION (YES)		
1 k	KHP LIMITED PARTNERSHIP C/O WALGREEN C	R123-015-000-0551-0000	1.72		0.074 AC (3202 SF)		0.074 AC (3202 SF)	1.646 AC (71700 SF)					YES		YES			
2 L	LAB HOLDINGS, LLC	R123-015-000-116G-0000	1.18		0.036 AC (1551 SF)		0.036 AC (1551 SF)	1.144 AC (49833 SF)					YES	YES	YES	YES		
3 T	TIDAL WAVE AUTO SPA OF BEAUFORT, LLC	R123-015-000-1002-0000	1.15		0.005 AC (206 SF)		0.005 AC (206 SF)	1.145 AC (49876 SF)						YES	YES			
4 V	WAFFLE HOUSE, INC	R123-014-000-123A-0000	0.48															
5 (	CHARLES PLACE PROPERTY OWNERS ASSOCIATION	R123-014-000-0144-0000	0.09															
6 (	OAKWOOD PROPERTIES OF BEAUFORT, LLC	R123-014-000-0137-0000	0.54															
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NOTES:

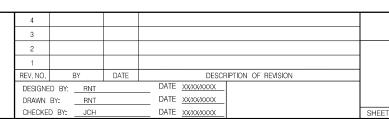
TOTAL OBTAIN INCLUDES HIGHLAND,
MARSH AND OUTFALL DITCHES.

OBTAINS WILL BE SHOWN IN
SOUARE FEET AND ACRES. ACRES
WILL BE SHOWN IN PARENTHESES
UNDER SOUARE FEET. IN RURAL
AREAS OBTAINS MAY BE SHOWN
IN ACRES ONLY. OUTFALL DITCHES
WILL BE SHOWN IN ACRES ONLY.

SHOW REMAINDER IN SQUARE
FEET WHEN LESS THAN 0.25
ACRE.

**INFRASTRUCTURE**CONSULTING & ENGINEERING

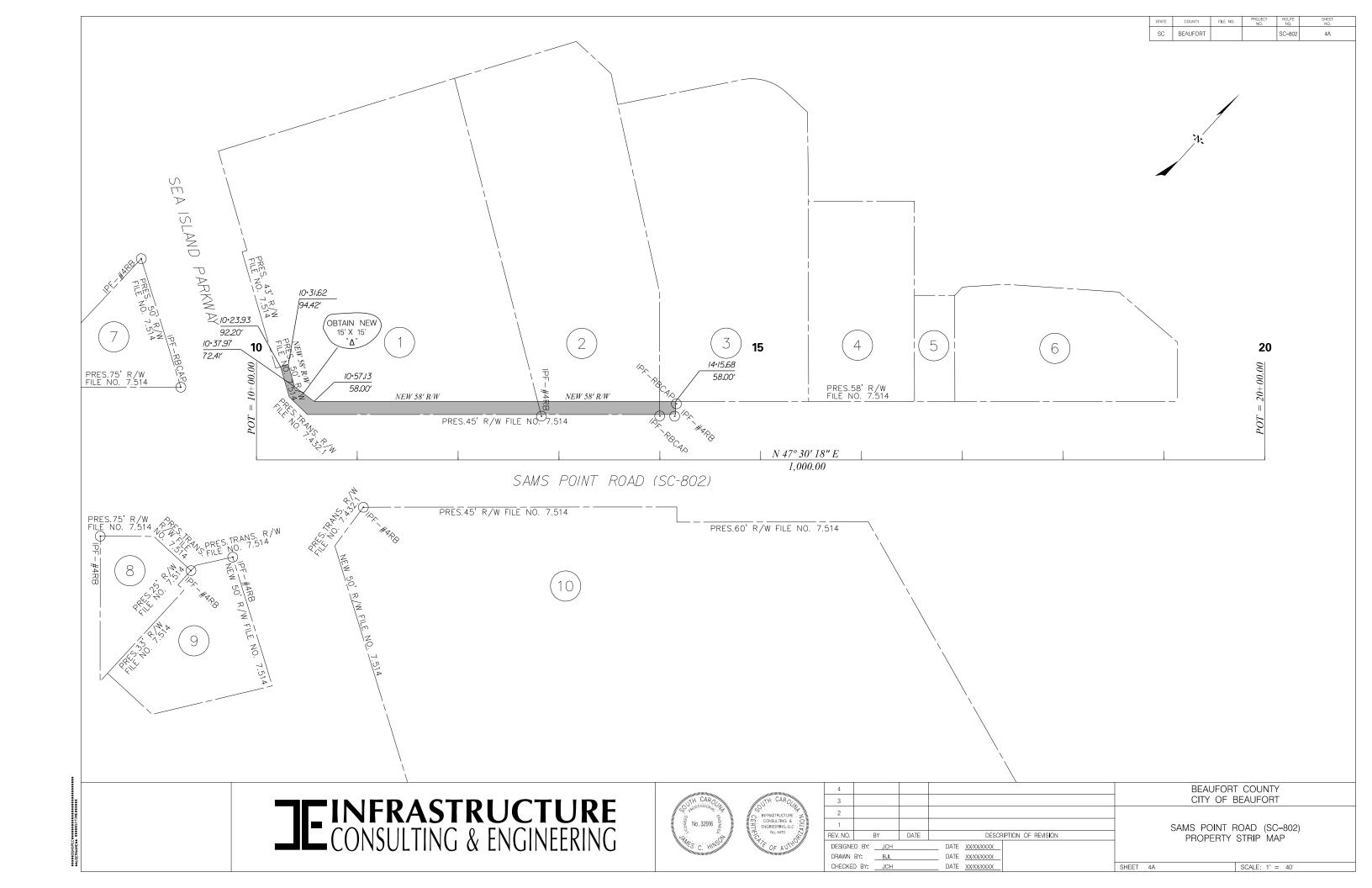




BEAUFORT COUNTY CITY OF BEAUFORT

SAMS POINT ROAD (SC-802) RIGHT OF WAY DATA SHEET

SHEET 4 SCALE: NTS



## GENERAL NOTES

## TATE COUNTY FILE NO. PROJECT ROUTE SHEET NO. NO. NO. SC BEAUFORT SC-802 5

#### GENERAL CONSTRUCTION NOTES

THE COUNTY ADMINISTRATOR MUST SPECIFICALLY AUTHORIZE CHANGES INVOLVING INCREASED COST OF THE PROJECT OR CHANGES IN ALIGNMENT. THE CAPITAL PROJECTS DIRECTOR IS PERMITTED UNDER THE DIRECTION OF THE COUNTY ADMINISTRATOR TO AUTHORIZE MINOR ALTERATIONS NOT IN CONFLICT WITH THE STANDARD PRACTICES OF THE COUNTY. FORWARD INFORMATION ON ANY PROPOSED CHANGES IN ALIGNMENT TO THE COUNTY OFFICE AS SOON AS POSSIBLE.

SEE INDIVIDUAL CURVES ON REFERENCE DATA SHEET FOR SUPERELEVATION RATE AND DESIGN SPEED, AS APPLICABLE.

THE LOCATIONS OF EXISTING UTILITIES SHOWN ON THE PLANS HAVE BEEN DETERMINED FROM AVAILABLE INFORMATION AND ARE PROVIDED FOR THE CONVENIENCE OF THE CONTRACTOR. THE ENGINEER ASSUMES NO RESPONSIBILITY FOR THE ACCURACY OR COMPLETENESS OF THE UTILITIES INFORMATION SHOWN ON THE DRAWINGS. IT IS THEREFORE THE CONTRACTOR'S RESPONSIBILITY TO CONFIRM THAT THE PROPER COORDINATION WITH THE VARIOUS UTILITY OWNERS HAS BEEN PERFORMED.

THE CONTRACTOR SHALL COOPERATE WITH THE UTILITY OWNERS DURING RELOCATION OPERATIONS. THE CONTRACTOR SHALL EXERCISE CAUTION WHEN CROSSING AN UNDERGROUND UTILITY WHETHER SHOWN ON THE DRAWINGS OR LOCATED BY THE UTILITY COMPANY. COST OF DAMAGES TO ANY UTILITIES AS A RESULT OF CONSTRUCTION SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR.

ALL WORKMANSHIP AND MATERIALS USED ON THIS PROJECT SHALL CONFORM TO THE SCDOT STANDARD SPECIFICATIONS FOR HIGHWAY CONSTRUCTION (2007 EDITION), SCDOT 2007 SUPPLEMENTAL SPECIFICATIONS, SCDOT SUPPLEMENTAL TECHNICAL SPECIFICATIONS IN EFFECT AT THE TIME OF LETTING, AND SCDOT 2009 STANDARD DRAWINGS EXCEPT WHERE OTHERWISE NOTED IN THE PLANS

ALL EXISTING ROAD SIGNS AFFECTED BY CONSTRUCTION ACTIVITIES SHALL BE RETAINED, RELOCATED, OR REMOVED AS DIRECTED BY ENGINEER. PAYMENT FOR THIS WORK SHALL BE INCLUDED IN THE LUMP SUM COST FOR CLEARING AND GRUBBING.

ALL NEW SIGNS SHALL BE PLACED IN ACCORDANCE WITH THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES AND SCDOT STANDARD DRAWINGS NEW 2P & 3P SIGN SUPPORTS REQUIRED FOR RELOCATED SIGNS WILL BE PAID PER LINEAR FOOT INSTALLED AND ACCEPTED.

THE CONTRACTOR SHALL FURNISH, INSTALL, AND MAINTAIN ALL NECESSARY PROVISIONS FOR TRAFFIC CONTROL FOR THE DURATION OF THE PROJECT. THESE PROVISIONS, AS IN EACH CASE IS APPLICABLE, WILL CONFORM TO THE REQUIREMENTS CONTAINED IN THE SCIDOT STANDARD SPECIFICATIONS, STANDARD DRAWINGS, SUPPLEMENTAL SPECIFICATIONS, SPECIAL PROVISIONS, THE FEDERAL HIGHWAY ADMINISTRATION MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES, AND AS DIRECTED BY THE ENGINEER, THE CONTRACTOR SHALL SUBMIT THE TRAFFIC CONTROL PLAN TO THE COUNTY FOR APPROVAL BEFORE BEGINNING CONSTRUCTION.

HOURLY LANE CLOSURE RESTRICTIONS AS FOLLOWS: US 21 BUS AND SC 802 - DAILY FROM 6AM - 7PM

THE LUMP SUM COST FOR TRAFFIC CONTROL SHALL INCLUDE ALL WORK AS DIRECTED ABOVE. THIS LUMP SUM COST SHALL INCLUDE TEMPORARY CONSTRUCTION SIGNS, BARRICADES, DRUMS, CONES, LIGHTS, AND OTHER ITEMS AS REQUIRED TO COMPLETE THIS WORK.

CONTRACTOR SHALL REFER TO SCDOT STD. DWG. 605-010-02 FOR PLACEMENT OF PERMANENT CONSTRUCTION SIGNS. THIS PROJECT REQUIRES TWO (2) SCHEME C AND TWO (2) SCHEME E SIGNS SHALL BE PAID FOR PER SQUARE FOOT INSTALLED AND ACCEPTED UNDER THE BID ITEM FOR PERMANENT CONSTRUCTION SIGNS.

#### NARRATIVE DESCRIPTION:

THE STORMWATER MANAGEMENT FOR THE DRAINAGE IMPROVEMENTS INCLUDES A STORM DRAINAGE COLLECTION AND CONVEYANCE SYSTEM DESIGN TO ACCEPT STORM WATER RUNOFF FROM THE ROADWAY, NEW TURN LANE, AND ADJACENT PROPERTIES ON A NETWORK OF INLETS OR CATCH BASINS AND CONVEY IT IN A CLOSED PIPE SYSTEM AND DISCHARGE IT INTO A SCOOT MAINTAINED OUTFALL DITCH ALONG LADYS ISLAND DRIVE.

THE TOPOGRAPHY OF THE SITE IS VERY FLAT AND PRIMARILY COMMERCIAL DEVELOPMENT WITH GRASSY LANDSCAPED AREAS. THIS PROJECT WILL NOT AFFECT THE EXISTING BUILDINGS BUT WILL ENCROACH ON THE LANDSCAPING. WEB SOIL SURVEY WAS USED TO DETERMINE THE SOIL CONDITIONS AT THIS SITE. THE SOILS ARE PREDOMINANTLY SANDY SOILS.

THE SEDIMENT CONTROL PLAN INCLUDES FOLLOWING THE EROSION CONTROL NOTES AND SEQUENCE OF CONSTRUCTION BY PLACING SILT FENCE AROUND THE PERIMETER, PLACING NON-WEIGHTED TYPE F ON SUBGRADE AND WEIGHTED TYPE F INLET TUBES AT ALL INLETS AFTER THE ROAD BASE COURSE IS PLACED.

#### SEQUENCE OF CONSTRUCTION

1. OBTAIN NPDES COVERAGE FROM DHEC AND FINAL MS4 APPROVAL FROM THE CITY OF BEAUFORT DEPARTMENT OF PUBLIC WORKS.

2. NOTIFY SC DHEC REGIONAL OFFICE AND THE CITY OF BEAUFORT DEPARTMENT OF PUBLIC WORKS 48 HOURS PRIOR TO ANY LAND DISTRUBING ACTIVITIES.

3. INSTALL TREE PROTECTION AND DELINEATE CLEARING LIMITS.

4. CLEARING & GRUBBING ONLY AS NECESSARY FOR INSTALLATION OF PERIMETER CONTROLS (E.G. SILT FENCE).

5. INSTALL PERIMETER CONTROLS (E.G. SILT FENCE).

6. PROVIDE SITE DRAINAGE WITH DIVERSION DITCHES, SWALES AND DRAINS.

7. CLEARING AND GRUBBING OF SITE (SEDIMENT & EROSION CONTROL MEASURES FOR THESE AREAS MUST ALREADY BE INSTALLED.

8. STRIP TOP SOIL AND STOCKPILE FOR LATER USE ON SHOULDERS AND SLOPES PER SECTION 209 OF THE STANDARD SPECIFICATIONS. "ALL DISTURBED AREA [ANN AREA OF LAND THAT WILL BE DISTURBED DURING CONSTRUCTION, THAT INCLUDES CLEARING, GRUBBING, STOCK PILING AND INSTALLATION OF ANY BMPS (SILT FENCE, SWALES, CHECK DAMS, ETC] MUST BE INCLUDED WITHIN THE LIMITS OF DISTURBANCE."

9. ROUGH GRADING.

10. INSTALL STORM DRAINAGE.

11. FINE GRADING.

12. CONSTRUCT CURB & GUTTER

13. ASPHALT PAVING.

14. CONSTRUCT SIDEWALK

15. FINISH GRADING AND FINAL GRASSING AND LANDSCAPING.

16. MAINTAIN ALL SEDIMENT AND EROSION CONTROL DEVICES FOR THE EXTENT OF THE PROJECT.

17. REMOVAL OF SEDIMENT CONTROLS AFTER SITE HAS BEEN STABILIZED.

18. CONTACT THE BEAUFORT COUNTY CAPITAL PROJECTS DIRECTOR FOR FINAL PROJECT INSPECTION.

19. FILE NOTICE OF TERMINATION.

THE FOLLOWING QUANTITIES ARE NOT SHOWN IN DETAIL ON THE PLANS BUT ARE INCLUDED IN THE SUMMARY OF ESTIMATED QUANTITIES AND MAY BE ADJUSTED DURING CONSTRUCTION AS DIRECTED BY THE ENGINEER.

#### ROADWAY ITEMS

MOBILIZATION	1.000 LS	PER CONTRACT DOCUMENTS
BONDS AND INSURANCE	1.000 LS	PER CONTRACT DOCUMENTS
CONSTRUCTION STAKES, LINES & GRADES	1.000 EA	PER CONTRACT DOCUMENTS
TRAFFIC CONTROL	1.000 LS	PER CONTRACT DOCUMENTS
AS-BUILT CONSTRUCTION PLANS	1.000 LS	PER CONTRACT DOCUMENTS
CLEARING & GRUBBING WITHIN ROADWAY	1.000 LS	WHERE DIRECTED BY ENGINEER
LIMB TRIMMING	1.000 LS	PER CONTRACT DOCUMENTS
REMOVAL & DISPOSAL OF EXISTING MANHOLE	1.000 EA	FOR REM. & DISPOSAL OF EXISTING MANHOLE
REMOVAL & DISPOSAL OF EXISTING CURB	761.000 LF	FOR REM. & DISPOSAL OF EXISTING CURB
REMOVAL & DISPOSAL OF EXISTING CONCRETE	300.000 SY	FOR REM. & DISPOSAL OF EXISTING CONCRETE
FINE GRADING	1436.000 SY	WHERE DIRECTED BY ENGINEER
MAINTENANCE STONE	6.532 TON	WHERE DIRECTED BY ENGINEER
HOT MIX ASPHALT BASE COURSE - TYPE A	357.800 TON	FOR OVERRUN
LIQUID ASPHALT BINDER PG64-22	26.600 TON	FOR DRIVES AND OVERRUN
MILLING EXISTING ASPHALT PAVEMENT (VARIABLE)	85.600 SY	WHERE DIRECTED BY ENGINEER
HOT MIX ASPHALT INTERMEDIATE COURSE TYPE B	4.770 TON	FOR BUILDUP AND OVERRUN
HOT MIX ASPHALT SURFACE COURSE TYPE B	2.080 TON	FOR DRIVES AND OVERRUN
DETECTABLE WARNING MATERIAL	19.500 SF	WHERE DIRECTED BY ENGINEER
CONCRETE DRIVEWAY(6" UNIFORM)	0.523 SY	FOR OVERRUN

#### **EROSION CONTROL ITEMS**

INLET STRUCTURE FILTER - TYPE A

EROSION CONTROL ITEMS		
RIP-RAP (CLASS B)	4.000 TON	FOR PIPE ENDS
GEOTEXTILE FOR EROSION CONTROL UNDER RIP RAP	8.000 SY	FOR EMBANKMENT PROTECTION UNDER RIP-RAP
PERMANENT COVER	0.300 ACRE	FOR ALL DISTURBED AREAS
TEMPORARY COVER	0.300 ACRE	FOR ALL DISTURBED AREAS
STRAW OR HAY MULCH WITH TACKIFIER	0.300 ACRE	FOR ALL DISTURBED AREAS
FERTILIZER (NITROGEN)	30.000 LB	FOR ALL DISTURBED AREAS
FERTILIZER (PHOSPHORIC ACID)	30.000 LB	FOR ALL DISTURBED AREAS
FERTILIZER (POTASH)	30.000 LB	FOR ALL DISTURBED AREAS
AGRICULTURAL GRANULAR LIME	600.000 LB	FOR ALL DISTURBED AREAS
MOWING	0.600 ACRE	FOR ALL DISTURBED AREAS
SILT FENCE	532.000 LF	FOR TEMPORARY EROSION CONTROL
CLEANING INLET STRUCTURE FILTERS	10.000 FA	WHERE DIRECTED BY ENGINEER

8 000 FA

WHERE DIRECTED BY ENGINEER

**IEINFRASTRUCTURE** CONSULTING & ENGINEERING





4				
3				
2				
1				
REV. NO.	BY	DATE	DESCRIPTION OF REVISION	
DESIGNE	D BY: RNT		DATE XXXXXXXXX	
DRAWN	BY: RNT		DATE <u>xxxxxxxxx</u>	
CHECKE	D BY: <u>JCH</u>		DATE <u>xxxxxxxxxx</u>	SHEET

BEAUFORT COUNTY CITY OF BEAUFORT

SAMS POINT ROAD (SC-802)
GENERAL CONSTRUCTION NOTES

\_\_\_\_

ET 5 SCALE: NTS

### GENERAL INFORMATION

CONTROL SURVEY SUMMARY

VERTICAL - NORTH AMERICAN VERTICAL DATUM 1988 (NAVD 88)

HORIZONTAL NORTH AMERICAN DATUM 1983 (NAD 83) COORDINATES - SOUTH CAROLINA STATE PLANE COORDINATE SYSTEM

COMBINED SCALE FACTOR - 1.00003579

### ALIGNMENT CONTROL POINTS

CONTROL	NORTHING (Y)	EASTING (X)
POT = 10 + 00.00	211,410.807	2,107,920.591
POT = 20 + 00.00	212,086.333	2,108,657.927

### PRIMARY SURVEY CONTROL POINTS

CONTROL	NORTHING (Y)	EASTING (X)	ELEVATION	DESCRIPTION
PSC 1	211,340.522	2,107,945.070	14.91'	PK NA <b>I</b> L
PSC 2	211,881.941	2,108,370.083	15.47'	PK NA <b>I</b> L

The localized coordinate system developed for this project is based on NAD-83 (2011) SC State Plane Coordinate System used to establish the Localization Point. The Localization point is primary survey control (PSC) point number I with a Northing of 21/340.522 and an Easting of 21/07945.070. The combined scale factor (Ground to Grid) of 1.00003579. The elevations for this project are based on NAVD-88 values for project bench mark PSC I with an elevation of 14.91.

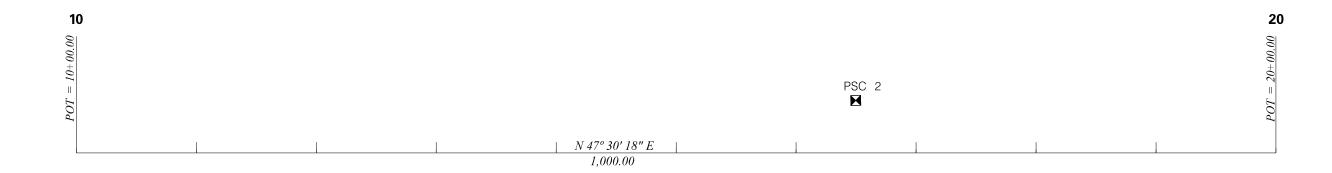


SC

BEAUFORT

SC-802

5A



PSC 1 

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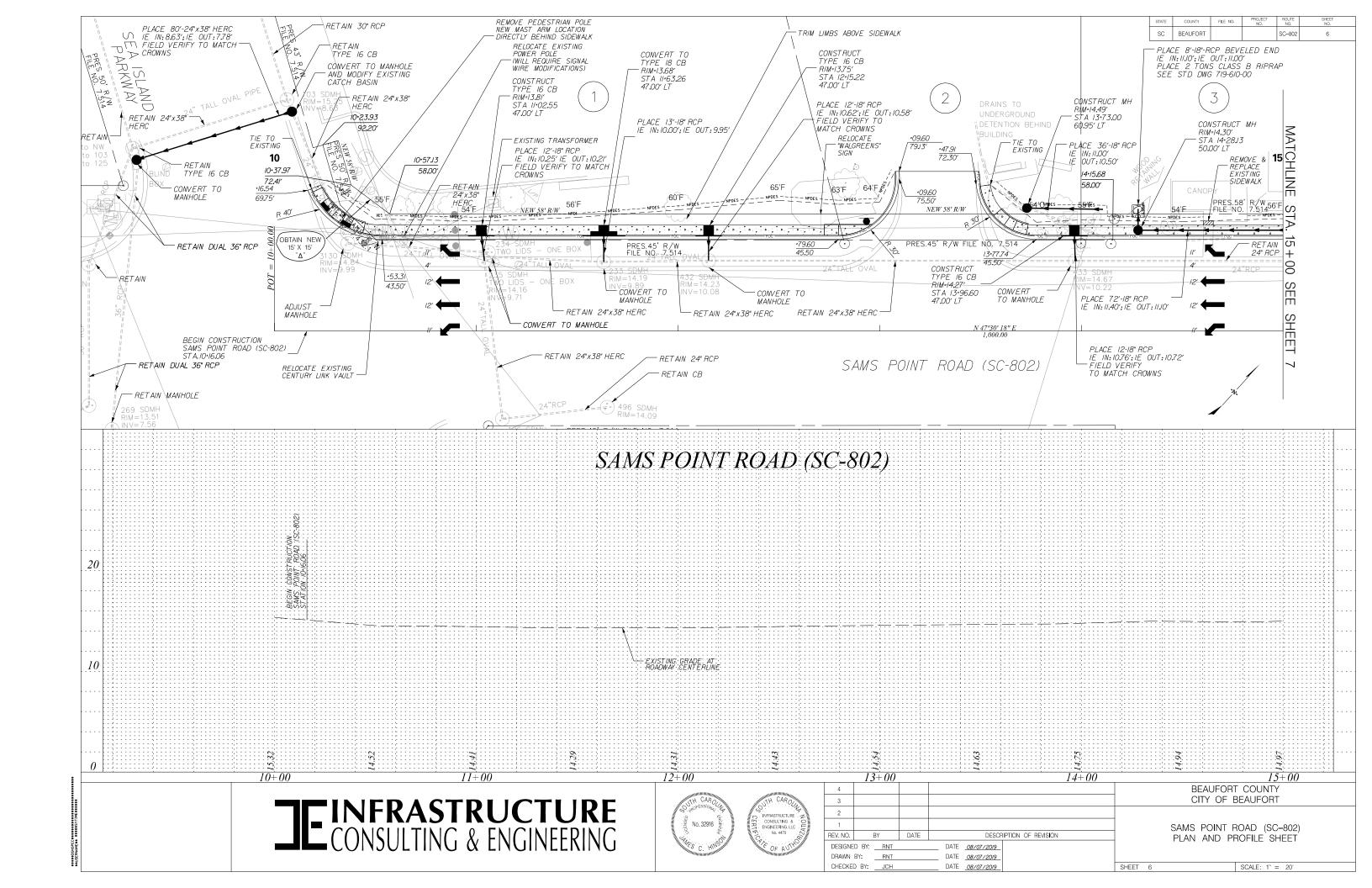
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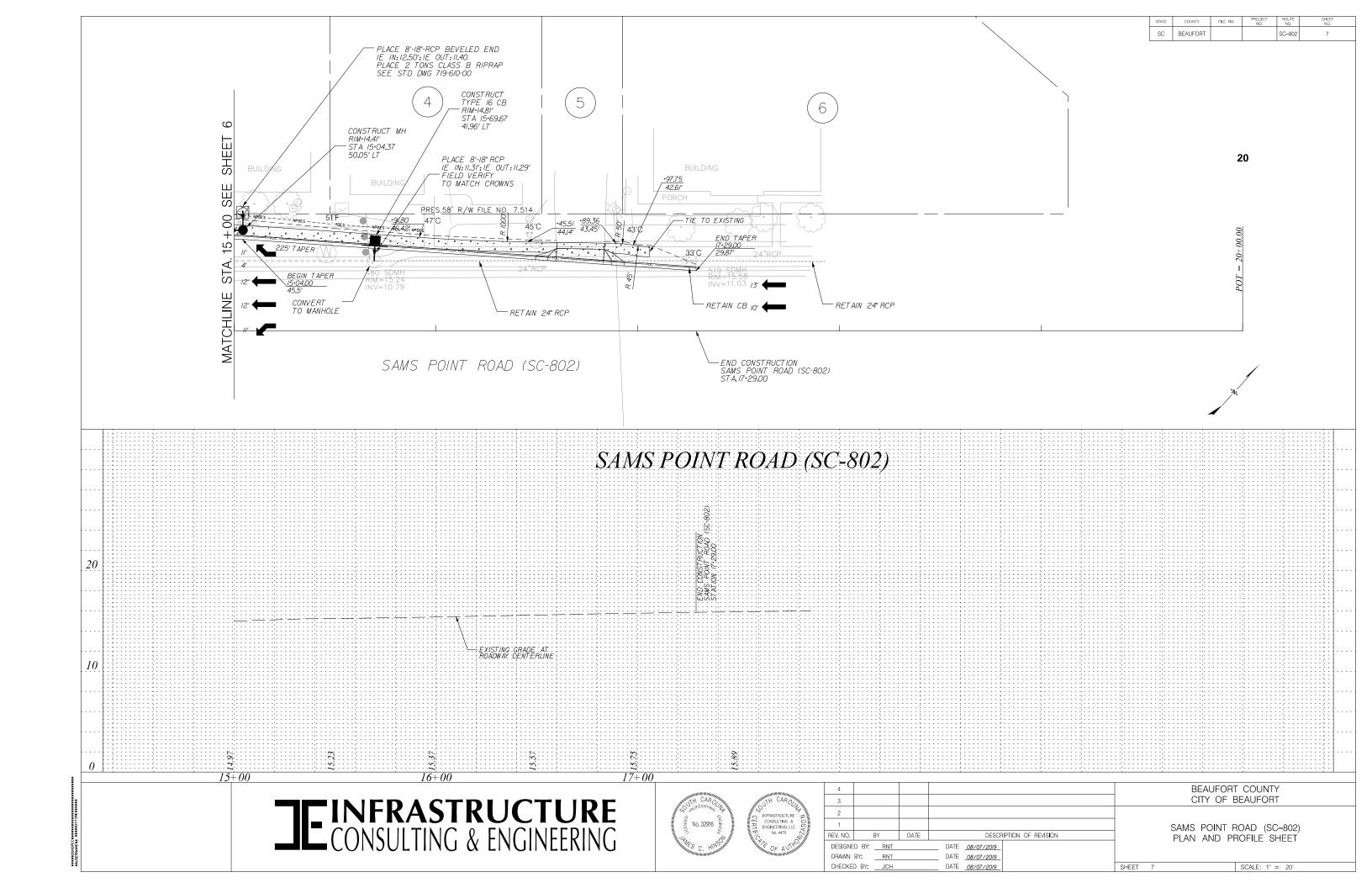
BEAUFORT COUNTY CITY OF BEAUFORT

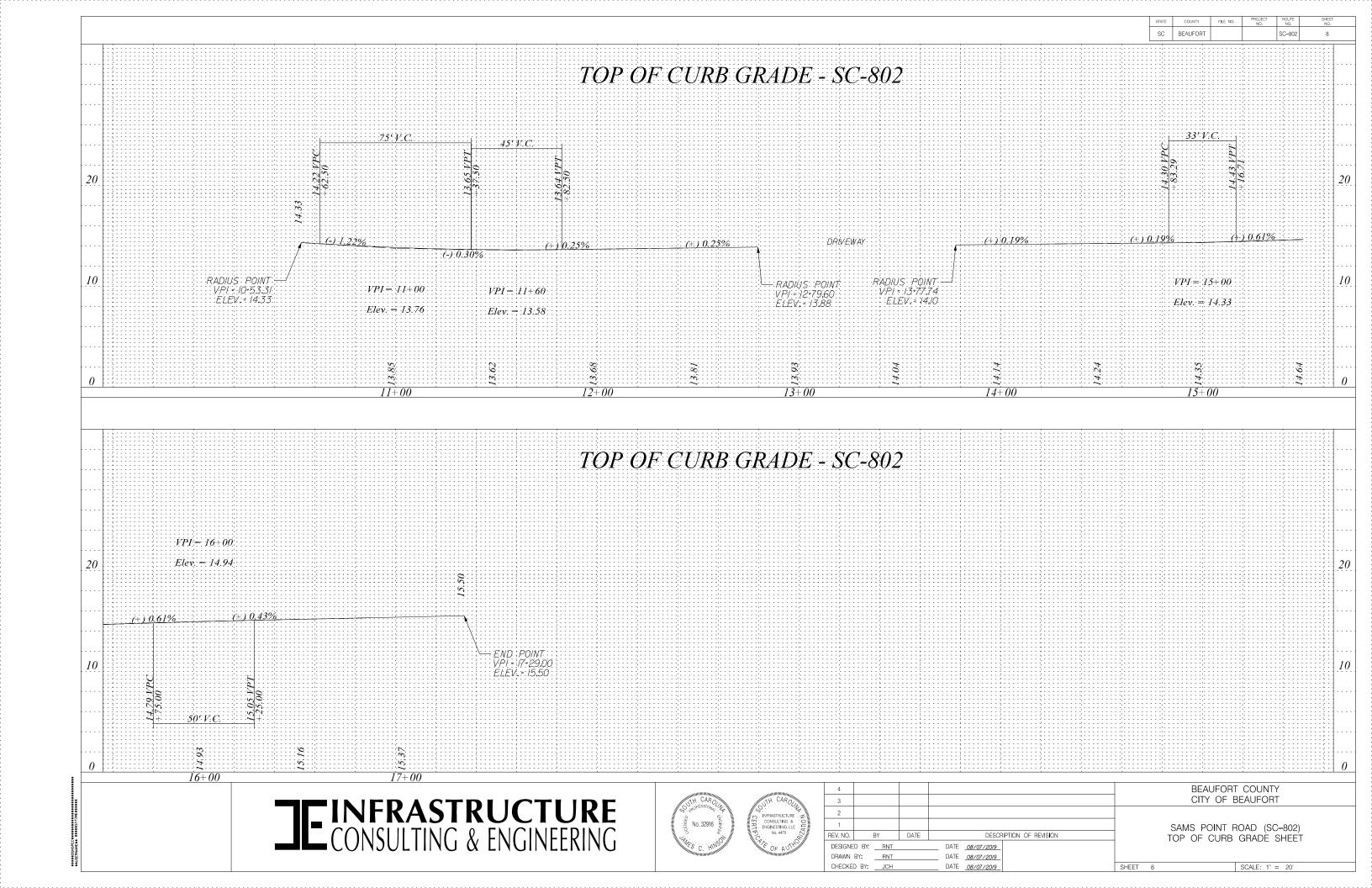
SAMS POINT ROAD (SC-802) REFERENCE DATA SHEET

SCALE: 1" = 40'

SHEET 5A









EC1 BEAUFORT SC-802

### SOUTH CAROLINA DEPARTMENT OF TRANSPORTATION

## GENERAL EROSION CONTROL NOTE

SEDIMENT & EROSION CONTROL

IF NECESSARY, SLOPES, WHICH EXCEED EIGHT (8) VERTICAL FEET SHOULD BE STABILIZED WITH SYNTHETIC OR VEGETATIVE MATS, IN ADDITION TO HYDROSEEDING, IT MAY BE NECESSARY TO INSTALL TEMPORARY SLOPE DRAINS DURING CONSTRUCTION TEMPORARY BERMS MAY BE NEEDED UNTIL THE SLOPE IS BROUGHT TO GRADE.

STABILIZATION MEASURES SHALL BE INITIATED AS SOON AS PRACTICABLE IN PORTIONS OF THE SITE WHERE CONSTRUCTION ACTIVITIES HAVE TEMPORAPILY OR PERMANENTLY CEASED, BUT IN NO CASE MORE THAN FOURTEEN (14) DAYS AFTER WORK HAS CEASED, EXCEPT AS STATED BELOW.

A) WHERE STABILIZATION BY THE 14TH DAY IS PRECLUDED BY SNOW COVER OR FROZEN GROUND CONDITIONS STABILIZATION MEASURES MUST BE INITIATED AS SOON AS PRACTICAL BY WHERE CONSTRUCTION ACTIVITY ON A PORTION OF THE SITE IS TEMPORARILY CEASED, AND EARTH-DISTURBING ACTIVITIES WILL BE RESUMED WITHIN 14 DAYS, TEMPORARY STABILIZATION MEASURES DO NOT HAVE TO BE INITIATED ON THAT PORTION OF THE SITE.

ALL SEDIMENT AND EROSION CONTROL DEVICES SHALL BE INSPECTED ONCE EVERY CALENDAR WEEK IF PERIODIC INSPECTION OR OTHER INFORMATION INDICATES THAT A BMP HAS BEEN INAPPROPRIATELY OR INCORRECTLY INSTALLED, THE PERMITTEE MUST ADDRESS THE NECESSARY REPLACEMENT OR MODIFICATION TO CORRECT THE BMP WITHIN 48 HOURS OF IDENTIFICATION.

PROVIDE SILT FENCE AND/OR OTHER CONTROL DEVICES, AS MAY BE REQUIRED, TO CONTROL SOIL EROSION DURING UTILITY CONSTRUCTION ALL DISTURBED AREAS SHALL BE CLEANED, GRADED, AND STABILIZED WITH GRASSING IMMEDIATELY AFTER THE UTILITY INSTALLATION. FILL, COVER, AND TEMPORARY SEEDING AT THE END OF EACH DAY ARE RECOMMENDED. IF WATER IS ENCOUNTERED WHILE TRENCHING, THE WATER SHOULD BE FILTERED TO REMOVE ANY SEDIMENTS BEFORE BEING PUMPED BACK INTO ANY WATERS OF THE STATE.

ALL EROSION CONTROL DEVICES SHALL BE PROPERLY MAINTAINED DURING ALL PHASES OF CONSTRUCTION UNTIL THE COMPLETION OF ALL CONSTRUCTION ACTIVITIES AND ALL DISTURBED AREAS HAVE BEEN STABILIZED, ADDITIONAL CONTROL DEVICES MAY BE REQUIRED DURING CONSTRUCTION IN ORDER TO CONTROL EROSION ANDOR OFFSITE SEDIMENTATION. ALL TEMPORARY CONTROL DEVICES SHALL BE REMOVED ONCE CONSTRUCTION IS COMPLETE AND THE SITE IS STABILIZED.

THE CONTRACTOR MUST TAKE NECESSARY ACTION TO MINIMIZE THE TRACKING OF MUD ONTO PAVED ROADWAY(S) FROM CONSTRUCTION AREAS AND THE GENERATION OF DUST. THE CONTRACTOR SHALL DAILY REMOVE MUDSOIL FROM PAVEMENT,

RESIDENTIAL SUBDIVISIONS REQUIRE EROSION CONTROL FEATURES FOR INFRASTRUCTURE AS WELL AS FOR INDIVIDUAL LOT CONSTRUCTION. INDIVIDUAL PROPERTY OWNERS SHALL FOLLOW THESE PLANS DURING CONSTRUCTION OR OBTAIN APPROVAL OF AN INDIVIDUAL PLAN IN ACCORDANCE WITH S.C. REG. 72-300 ET SEO, AND SCR100000.

TEMPORARY DIVERSION BERMS AND/OR DITCHES WILL BE PROVIDED AS NEEDED DURING CONSTRUCTION TO PROTECT WORK AREAS FROM UPSLOPE RUNOFF AND/OR TO DIVERT SEDIMENT-LADEN WATER TO APPROPRIATE TRAPS OR STABLE OUTLETS

ALL WATERS OF THE STATE (WOS), INCLUDING WETLANDS, ARE TO BE FLAGGED OR OTHERWISE CLEARLY MARKED IN THE FIELD. A DOUBLE ROW OF SILT FENCE IS TO BE INSTALLED IN ALL AREAS WHERE A 50-FOOT BUFFER CANNOT BE MAINTAINED BETWEEN THE DISTURBED AREA AND ALL WOS. A 10-FOOT BUFFER SHOULD BE MAINTAINED BETWEEN THE LAST ROW OF SILT FENCE AND ALL WOS

LITTER, CONSTRUCTION DEBRIS, OILS, FUELS, AND BUILDING PRODUCTS WITH SIGNIFICANT POTENTIAL FOR IMPACT (SUCH AS STOCKPILES OF FRESHLY TREATED LUMBER) AND CONSTRUCTION CHEMICALS
THAT COULD BE EXPOSED TO STORM WATER MUST BE PREVENTED FROM BECOMING A POLLUTANT SOURCE IN STORM WATER DISCHARGES.

A COPY OF THE SWPPP, INSPECTION RECORDS, AND RAINFALL DATA MUST BE RETAINED AT THE CONSTRUCTION SITE OR A NEARBY LOCATION EASILY ACCESSIBLE DURING NORMAL BUSINESS HOURS, FROM THE DATE OF COMMENCEMENT OF CONSTRUCTION ACTIVITIES TO THE DATE THAT FINAL STABILIZATION IS REACHED.

INITIATE STABILIZATION MEASURES ON ANY EXPOSED STEEP SLOPE (3H:IV OR GREATER) WHERE LAND-DISTURBING ACTIVITIES HAVE PERMANENTLY OR TEMPORABILY CEASED, AND WILL NOT RESUME FOR A PERIOD OF 7 CALENDAR

MINIMIZE SOIL COMPACTION AND UNLESS INFEASIBLE, PRESERVE TOPSOIL

MINIMIZE THE DISCHARGE OF POLLUTANTS FROM EQUIPMENT AND VEHICLE WASHING, WHEEL WASH WATER, AND OTHER WASH WATERS WASH WATERS MUST BE TREATED IN A SEDIMENT BASIN OR ALTERNATIVE CONTROL THAT PROVIDES EQUIVALENT OR BETTER TREATMENT PRIOR TO DISCHARGE.

- THE FOLLOWING DISCHARGES FROM SITES ARE PROHIBITED:

   WASTEWATER FROM WASHOUT OF CONCRETE, UNLESS MANAGED BY AN APPROPRIATE CONTROL;

   WASTEWATER FROM WASHOUT AND CLEANOUT OF STUCCO, PAINT, FORM RELEASE OILS, CURING COMPOUNDS
- AND OTHER CONSTRUCTION MATERIALS;

   FUELS, OILS OR OTHER POLLUTANTS USED IN VEHICLE AND EQUIPMENT OPERATION AND MAINTENANCE; AND
- SOAPS OR SOLVENTS USED IN VEHICLE AND EQUIPMENT WASHING.

AFTER CONSTRUCTION ACTIVITIES BEGIN, INSPECTION MUST BE CONDUCTED AT A MINIMUM OF AT LEAST ONCE EVERY CALENDAR WEEK AND MUST BE CONDUCTED UNTIL FINAL STABILIZATION IS REACHED ON ALL AREAS OF

IF EXISTING BMPS NEED TO BE MODIFIED OR IF ADDITIONAL BMPS ARE NECESSARY TO COMPLY WITH THE REQUIREMENTS OF THIS PERMIT ANDOR SCS WATER QUALITY STANDARDS, IMPLEMENTATION MUST BE COMPLETED BEFORE THE NEXT STORM WATER EVENT WHENEVER PRACTICABLE, THE SITUATION MUST BE DOCUMENTED IN THE SWPPP AND ALTERNATIVE BMPS MUST BE IMPLEMENTED AS SOON AS REASONABLY POSSIBLE.

A PRE-CONSTRUCTION CONFERENCE MUST BE HELD FOR EACH CONSTRUCTION SITE WITH AN APPROVED ON-SITE SWPPP PRIOR TO THE IMPLEMENTATION OF CONSTRUCTION ACTIVITIES, FOR NON-LINEAR PROJECTS THAT DISTURB TO ACRES OR MORE THIS CONFERENCE MUST BE HELD ON-SITE UNLESS THE DEPARTMENT AS APPROVED OTHERWISE

THE CONTRACTOR IS REQUIRED TO IDENTIFY AND MAINTAIN AN ON-SITE CONCRETE WASHDOWN AREA THAT MEETS ALL REQUIREMENTS / BMPS OF SCDHEC, APPROVED WASHOUT AREAS MAY INCLUDE SECTIONS OF SIDEWALK THAT HAVE BEEN FORMED AND THAT ARE LOCATED AHEAD OF THE CURRENT CONCRETE POUR. THE CONTRACTOR WILL BE RESPONSIBLE FOR REMOVAL OF CONCRETE REMNANTS AND PREPARING THE SUBGRADE IN THESE AREAS PRIOR TO PLACEMENT OF THE NEXT DAYS CONCRETE POUR

#### ENVIRONMENTAL PERMIT METHOD

SAFETYCLEAR ZONE CLEARING WILL BE CONDUCTED THROUGHOUT THE PROJECT CORRIDOR OUTSIDE OF STREAMS AND WETLANDS, THIS AREA WILL BE CLEARED OF ALL TREES AND SHRUBS AND GROUND DOWN TO A DEPTH OF 6\*(0.5 FEET) BELOW GRADE. IN STREAMS AND WETLANDS, TREES AND SHRUBS WILL BE CUT FLUSH

OUTFALL DITCH CLEANOUT
OUTFALL DITCH CLEANOUT ACTIVITIES (ALSO REFERENCED IN SECTION IV, BELOW) WILL BE CONDUCTED AS NEEDED IN JURISDICTIONAL FEATURES AND NONJURISDICTIONAL AREAS, IN JURISDICTIONAL AREAS, MAINTENANCE OF THE EXISTING DITCHES MAY INCLUDE EXCAVATIONS OF ACCUMULATED SEDIMENTS BACK TO ORIGINAL CONTOURS, RESHAPING OF SIDE SLOPES, WHERE THE ORIGINAL FUNCTION IS NOT CHANGED AND THE CAPACITY IS NOT INCREASED. THIS ACTIVITY IS CONSIDERED AN EXEMPT ACTIVITY UNDER SECTION 404(F)(1)(C) OF THE CLEAN WAITER ACT SO LONG AS THE ACTIVITY IS CONSISTENT WITH SECTION 404(F)(2) AND 33 CFR.3234 AND 40 CFR 232.3. THERE WILL BE NO DISCHARGES INTO A WATER OF THE US THAT

-PART OF AN ACTIVITY WHOSE PURPOSE IS TO CONVERT AN AREA OF WATERS OF THE US INTO A USE TO WHICH IT WAS NOT PREVIOUSLY SUBJECT:

-WHERE THE FLOW OR CIRCULATION OF WATERS OF THE US MAY BE IMPAIRED; -THE REACH OF SUCH WATERS IS REDUCED;

-WHERE THE PROPOSED DISCHARGE WILL RESULT IN SIGNIFICANT DISCERNIBLE ALTERATIONS TO FLOW OR CIRCULATION (THE PRESUMPTION IS THAT FLOW OR CIRCULATION MAY BE IMPAIRED BY SUCH

<u>CONSTRUCTION ACCESS</u>
CONSTRUCTION ACCESS IN JURISDICTIONAL WETLAND AREAS WILL BE OBTAINED BY CLEARING TO THE GROUND LEVEL ONLY. THE USE OF RUBBER-TIRED EQUIPMENT, TIMBER MATS, BARGES OR ELEVATED WORK PLATFORMS (I.E. TRESTLES) OR OTHER BMPS WILL BE ALLOWED IN THE WETLAND AREAS AS NECESSARY; NO FILL OR GRUBBING, OR DOUBLE-HANDLING OF MATERIAL WILL BE ASSOCIATED WITH THE CONSTRUCTION ACCESS IN WETLANDS UNLESS IDENTIFIED AND QUANTIFIED IN THE PERMITTED PLANS.

#### SEQUENCE OF CONSTRUCTION

- 1. OBTAIN NPDES COVERAGE FROM DHEC
- 2. NOTIFY SCDHEC REGIONAL OFFICE 48 HOURS PRIOR TO ANY LAND DISTURBING ACTIVITIES.
- 3. INSTALL CONSTRUCTION ENTRANCES.
- 4. INSTALL TREE PROTECTION AND DELINEATE CLEARING LIMITS
- 5. CLEARING & GRUBBING ONLY AS NECESSARY FOR INSTALLATION OF PERIMETER
- 6. INSTALL PERIMETER CONTROLS (E.G. SILT FENCE).
- 7. PROVIDE SITE DRAINAGE WITH DIVERSION DITCHES, SWALES AND DRAINS.
- 8. CLEARING AND GRUBBING OF SITE (SEDIMENT & EROSION CONTROL MEASURES FOR THESE AREAS MUST ALREADY BE INSTALLED).
- 9. ROUGH GRADING, INSTALL SEDIMENT TUBES, ECB. TRM, ETC. AS NECESSARY
- 10. INSTALL STORM DRAINAGE AND PLACEMENT OF INLET PROTECTION AS EACH INLET IS INSTALLED/REPLACED.
- 11. FINE GRADING
- 13. FINISH GRADING AND FINAL GRASSING AND LANDSCAPING
- 14. MAINTAIN ALL SEDIMENT AND EROSION CONTROL DEVICES FOR THE EXTENT OF
- 15. REMOVAL OF SEDIMENT CONTROLS AFTER SITE HAS BEEN STABILIZED
- 16. CONTACT SCDHEC PROJECT INSPECTION
- 17. FILE NOTICE OF TERMINATION

#### INLET FILTER PLACEMENT

TYPE F NON-WEIGHTED INLET FILTERS TO BE PLACED AT ALL CURB INLETS.

LL OTHER INLETS TO BE PROTECTED WITH TYPE A INLET FILTERS ONCE INSTALLED.

AFTER ROAD BASE COURSE IS PLACED, PLACE WEIGHTED TYPE F INLET TUBES AT ALL

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BEAUFORT COUNTY CITY OF BEAUFORT

SAMS POINT ROAD (SC-802) GENERAL EROSION CONTROL NOTES

SCALE: NTS

STATE	COUNTY	FILE NO.	PROJECT NO.	ROUTE NO.	SHEET NO.
SC	BEAUFORT			SC-802	EC2

# EROSION CONTROL DATA SHEET

RECEIVING WATERS											
ROAD / ROUTE	OUTFALL DITC	H	NAME OF	NAME OF ULTIMATE							
KOAD/ KOUTE	STATION	SIDE	RECEIVING WATERS	RECEIVING WATERS							
SC 802	10+00	RT	UNNAMED TRIBUTARY	DISTANT ISLAND CREEK							

SOIL TYPES											
ROAD / ROUTE	STATIO STAT		SOIL PARTICLE SIZE (COARSE / FINE)	ZONE							
SC802	10+00	17+06	COARSE	*LCP							
*LOWER	COASTAL	PLAIN									

	TURF REINFORCED MATTING (TRM)													
ROAD / ROUTE	OAD / ROUTE STATION TO STATION		SIDE	DEPTH OF MAT	SLOPE		DITCH BOTTOM	TYPE	TYPE 1	TYPE 2	TYPE 3			
				(FT)	FRONT	BACK	WIDTH (FT)		(MSY)	(MSY)	(MSY)			
				· ·				TOTALS						

							SEDIN	IENT D	AM				
NO	ROAD / ROUTE	STATION	SIDE	DRAINED OR NOT DRAINED	LENGTH OF SILT BASIN	WIDTH OF SILT BASIN	DAM HEIGHT	SIDE SLOPE OF SILT BASIN		RIP RAP CLASS	SEDIMENT STORAGE HEIGHT		OUTFALL CHANNEL LENGTH

TEMPORARY EROSION CONTROL BLANKET													
MSY	SLOPES x:1		DITCH BOTTOM	DEPTH OF BLANKET	SIDE	ON TO TION	STATI	ROAD / ROUTE					
	BACK	FRONT	WIDTH (FT)	(FT)		HON							
0.074		4	0	0.5	LT	1336+50	1333+25	SC80					
0.074	TOTAL												

SEDIMENT TUBES IN DITCHES											
ROAD / ROUTE	STATI STAT	ON TO TION	SIDE	AVERAGE LENGTH	SPACING (FT)	TOTAL	COMMENTS				
					TOTAL						







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	DESIGNED BY: RNT			DATE	04/29/2020		)
	DRAWN BY: RNT			DATE	04/29/2020		
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SAMS POINT ROAD (SC-802) GENERAL EROSION CONTROL NOTES

BEAUFORT COUNTY

CITY OF BEAUFORT

T EC2 SCALE: NTS

