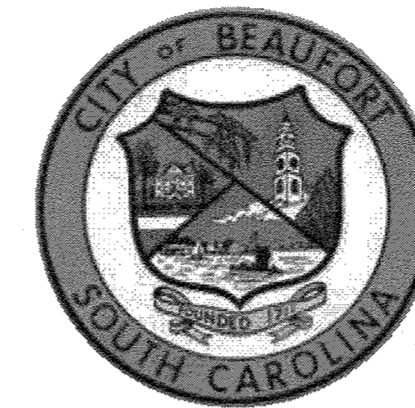


STATE	COUNTY	FILE NO.	PROJECT NO.	ROUTE NO.	SHEET NO.
SC	BEAUFORT			S-7-159	1

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X1-X2	CROSS SECTIONS	2
TOTAL		23

CITY OF BEAUFORT



MOSSY OAKS DRAINAGE IMPROVEMENT PLANS - BASIN 1

NPDES PERMIT INFORMATION	
Disturbed Area =	3.3 Acre(s)
Project Area =	4.5 Acre(s)
Approximate Location of Roadway is	
Begin	
Latitude	32°24'19" N
Longitude	80°41'41" W
End	
Latitude	32°24'23" N
Longitude	80°41'42" W
Hydraulic and NPDES Design provided by:	
I.C.E.	
Designs may be obtained from the SCDOT Regional Production Group	

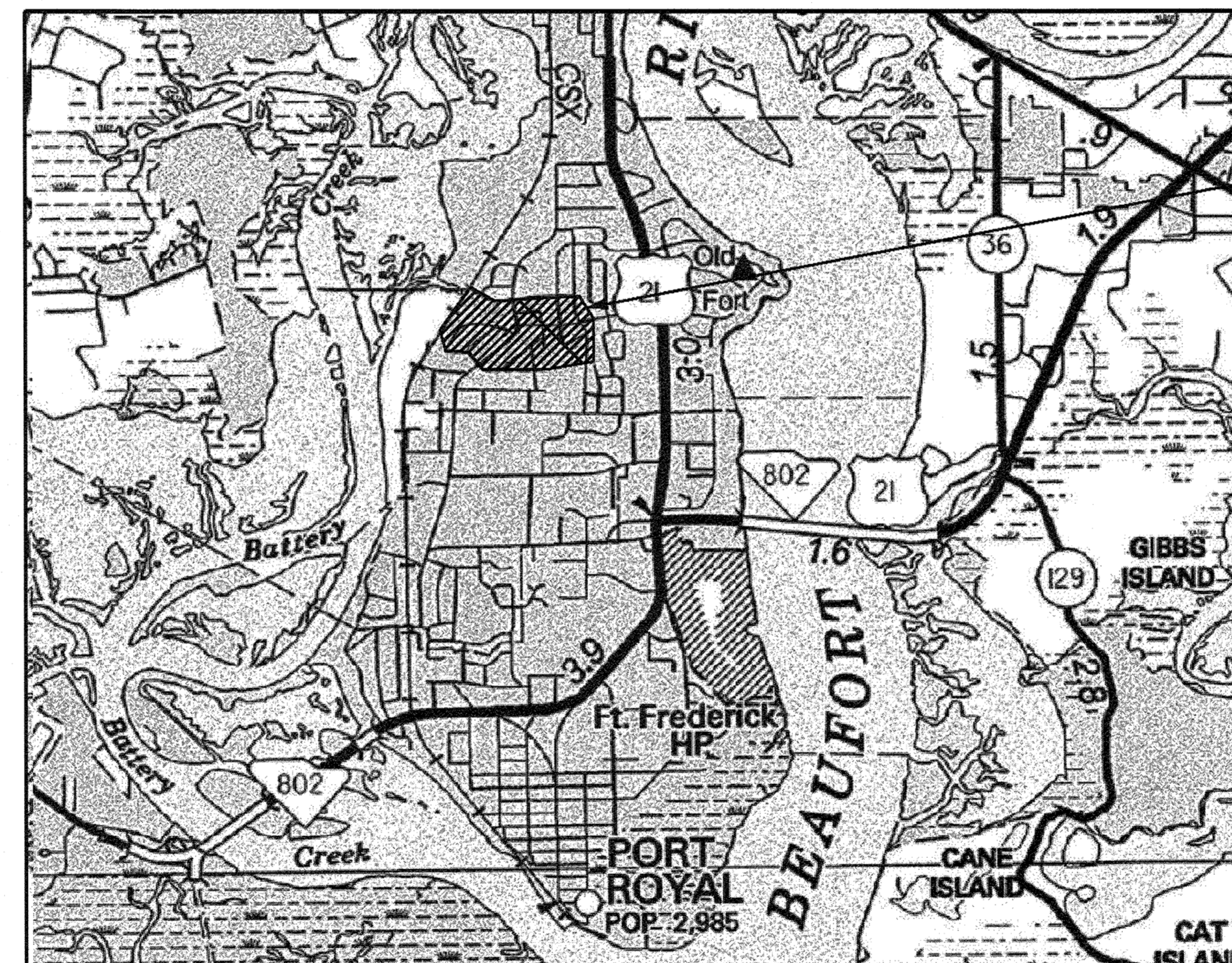
Hydraulic Design Reference for these plans is the:
2009
Edition of SCDOT's "Requirements for Hydraulic Design Studies"

Design Reference for these plans is the:
3R
These Plans Were Designed Using "3R" Principles From the 2017 Roadway Design Manual

ENVIRONMENTAL PERMIT INFORMATION			
USACE PERMIT	YES	NO	
NEPA DOCUMENT	YES	NO	
401 CERTIFICATION	YES	NO	
OCRM CAP	YES	NO	
NAVIGABLE WATERS	SC	USCG	USACE N/A

3 DAYS BEFORE DIGGING IN SOUTH CAROLINA
CALL 811
SOUTH CAROLINA 811 (SC811)
WWW.SC811.COM
ALL UTILITIES MAY NOT BE A MEMBER OF SC811

RAILROAD INVOLVEMENT?
YES NO



PROJECT AREA

LAYOUT
N.T.S.

	BATTERY CREEK ROAD	TOTAL (MILES)
NET LENGTH OF ROADWAY	0.09	0.09
NET LENGTH OF BRIDGES	-	-
NET LENGTH OF PROJECT	0.09	0.09
LENGTH OF EXCEPTIONS	-	-
GROSS LENGTH OF PROJECT	0.09	0.09

EQUALITIES IN STATIONING:
NONE

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

CONSULTING ENGINEERING FIRM
INFRASTRUCTURE CONSULTING & ENGINEERING

For Right Of Way Acquisition:

Consultant Engineer of Record

Date

ENGINEER OF RECORD

J. A. FRALK
SOUTH CAROLINA PROFESSIONAL ENGINEER
No. 27533

J. A. FRALK
SOUTH CAROLINA PROFESSIONAL ENGINEER
No. 4470

FOR CONSTRUCTION: Jared A. Fralk 1/3/2020
DATE

THE INITIALS ABOVE DO NOT RELIEVE THE ENGINEER OF RECORD OF THE RESPONSIBILITY TO DESIGN THIS PROJECT IN ACCORDANCE WITH ALL APPLICABLE CRITERIA

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
2023000	REMOVAL & DISPOSAL OF EXISTING PAVEMENT	28.3	SY
2027000	REMOVAL & DISPOSAL OF EXISTING CONCRETE	15.7	CY
2031200	SITE EXCAVATION	1	LS
3100310	HOT MIX ASPHALT BASE COURSE - TYPE B	16	TON
4013990	MILLING EXISTING ASPHALT PAVEMENT (VARIABLE)	319.1	SY
4020320	HOT MIX ASPHALT INTERMEDIATE COURSE TYPE B	147	TON
4030320	HOT MIX ASPHALT SURFACE COURSE TYPE C	114	TON
6020005	PERMANENT CONSTRUCTION SIGNS (GROUND MOUNTED)	76	SF
7065010	TIMBER BOARDWALK (10' WIDE)	30	LF
7143618	18" SMOOTH WALL PIPE	88	LF
7143624	24" SMOOTH WALL PIPE	58	LF
7143654	54" SMOOTH WALL PIPE	104	LF
7204100	CONCRETE SIDEWALK (4" UNIFORM)	162	SY
7204900	DETECTABLE WARNING MATERIAL	41	SF
8041020	RIP-RAP (CLASS B)	44	TON
8048200	GEOTEXTILE FOR EROSION CONTROL UNDER RIPRAP (CLASS 2) TYPE A	40	SY
8100100	PERMANENT COVER	0.25	ACRE
8100200	TEMPORARY COVER	0.12	ACRE
8104005	FERTILIZER (NITROGEN)	25	LB
8104010	FERTILIZER (PHOSPHORIC ACID)	25	LB
8104015	FERTILIZER (POTASH)	25	LB
8105005	AGRICULTURAL GRANULAR LIME	491	LB
8109901	MOWING	1	ACRE
8153000	SILT FENCE	753	LF
8153090	REPLACE/REPAIR SILT FENCE	75	LF
8154050	REMOVAL OF SILT RETAINED BY SILT FENCE	188	LF

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REV. NO.	BY	DATE	DESCRIPTION OF REVISION
DESIGNED BY:	xxx	DATE xx/xx/xxxx	
DRAWN BY:	xxx	DATE xx/xx/xxxx	
CHECKED BY:	xxx	DATE xx/xx/xxxx	

BEAUFORT COUNTY
CITY OF BEAUFORT

BATTERY CREEK ROAD (S-7-159)
BASIN 1
SUMMARY OF ESTIMATED QUANTITIES

STATE	COUNTY	FILE NO.	PROJECT NO.	ROUTE NO.	SHEET NO.
SC	BEAUFORT			S-7-159	3

GENERAL NOTES

GENERAL CONSTRUCTION NOTES:

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 SCDOT 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.

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 ONE (1) SCHEME C. SIGNS SHALL BE PAID FOR PER SQUARE FOOT INSTALLED AND ACCEPTED UNDER THE BID ITEM FOR PERMANENT CONSTRUCTION SIGNS.

EROSION CONTROL NOTES:

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 TEMPORARILY 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.
- B) 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 AND/OR 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 MUD/SOIL FROM PAVEMENT, AS MAY BE REQUIRED.

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 SEQ. 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:1V OR GREATER) WHERE LAND-DISTURBING ACTIVITIES HAVE PERMANENTLY OR TEMPORARILY CEASED, AND WILL NOT RESUME FOR A PERIOD OF 7 CALENDAR DAYS.

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 THE CONSTRUCTION SITE.

EROSION CONTROL NOTES (CONT):

IF EXISTING BMPS NEED TO BE MODIFIED OR IF ADDITIONAL BMPS ARE NECESSARY TO COMPLY WITH THE REQUIREMENTS OF THIS PERMIT AND/OR SC'S 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.

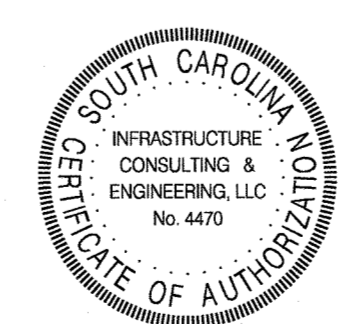
A PRE-CONSTRUCTION CONFERENCE MUST BE HELD FOR EACH CONSTRUCTION SITE WITH AN APPROVED ON-SITE SWPPP PRIOR TO THE IMPLEMENTATION OF CONSTRUCTION ACTIVITIES. FOR NON-LINEAR PROJECTS THAT DISTURB 10 ACRES OR MORE THIS CONFERENCE MUST BE HELD ON-SITE UNLESS THE DEPARTMENT AS APPROVED OTHERWISE.

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.

SEQUENCE OF CONSTRUCTION

1. OBTAIN NPDES COVERAGE FROM DHEC .
2. NOTIFY SC DHEC REGIONAL OFFICE AND THE CITY OF BEAUFORT DEPARTMENT OF PUBLIC WORKS 48 HOURS PRIOR TO ANY LAND DISTURBING 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. CLEARING AND GRUBBING OF SITE (SEDIMENT & EROSION CONTROL MEASURES FOR THESE AREAS MUST ALREADY BE INSTALLED).
7. WORK ON SPANISH MOSS TRAIL (IE TEMPORARY COFFER DAM, SHEET PILE WALL, REPLACE CULVERTS, HEADWALL, FLAP GATES, RECONSTRUCT PATHWAY)
8. CLEAN DITCHES
9. INSTALL UPSTREAM STORM DRAINAGE.
10. DETOUR WORK FOR BATTERY CREEK ROAD STORM DRAINAGE CROSSING
11. FINE GRADING ON BATTERY CREEK ROAD.
12. ASPHALT PAVING.
13. CONSTRUCT SIDEWALK.
14. FINISH GRADING AND FINAL GRASSING.
15. MAINTAIN ALL SEDIMENT AND EROSION CONTROL DEVICES FOR THE EXTENT OF THE PROJECT
16. REMOVAL OF SEDIMENT CONTROLS AFTER SITE HAS BEEN STABILIZED.
17. CONTACT THE CITY OF BEAUFORT DEPARTMENT OF PUBLIC WORKS FOR FINAL PROJECT INSPECTION.
18. FILE NOTICE OF TERMINATION.

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REV. NO.	BY	DATE	DESCRIPTION OF REVISION
DESIGNED BY:	B.JL	DATE 08/22/2019	
DRAWN BY:	B.JL	DATE 08/22/2019	
CHECKED BY:	PMV	DATE 08/22/2019	

BEAUFORT COUNTY
CITY OF BEAUFORT

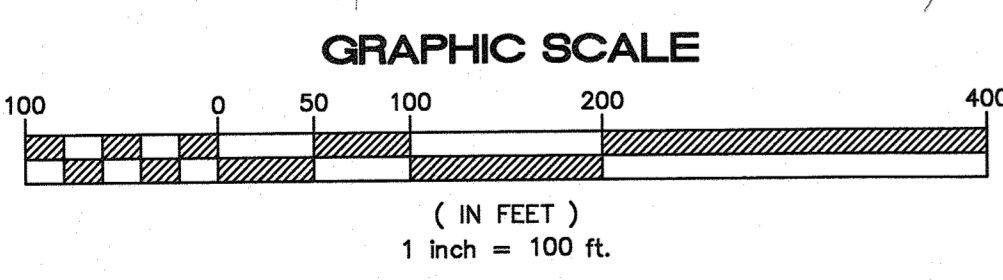
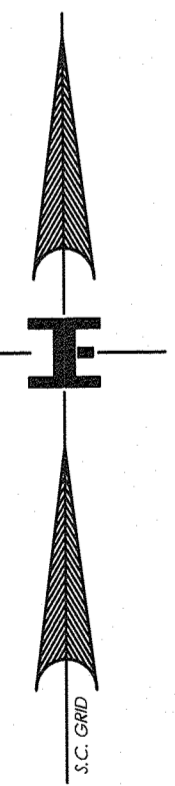
BATTERY CREEK ROAD (S-7-159)
BASIN 1
GENERAL CONSTRUCTION NOTES

SHEET 3

SCALE: NTS

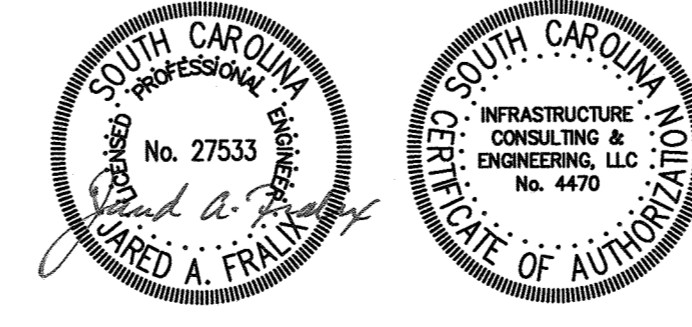
STATE	COUNTY	FILE NO.	PROJECT NO.	ROUTE NO.	SHEET NO.
SC	BEAUFORT				4

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PROPERTY OWNER DATA TABLE			
NO.	TAX MAP NO.	OWNER	MAILING ADDRESS
1	R120 006 000 0281	CARLEY JO & GEORGE M MYERS III	2832 W ROYAL OAKS DR, BEAUFORT, SC 29902
2	R120 006 000 0282	BRENT A HALLINAN, SHAWN EVAN HALLINAN	2834 W ROYAL OAKS DR, BEAUFORT, SC 29902
3	R120 006 000 0299	DOUGLAS D CIFRANCK	2831 W ROYAL OAKS DR, BEAUFORT, SC 29902
4	R120 006 000 0298	TMSRE LLC	85 JAMES F BYRNES ST, BEAUFORT, SC 29907
5	R120 006 000 0295	MARY JO & JERRY W LEWIS	806 COATES LN, BEAUFORT, SC 29902
6	R120 006 000 0296	JOANNE MANSKER, BRENDA CHAPMAN	804 COATES LN, BEAUFORT, SC 29902
7	R120 006 000 0560	JESSIE P GOETHIE	811 COATES LN, BEAUFORT, SC 29902
8	R120 006 000 0315	MARLENE P & JAMES T HANDRINS	2005 BOYER ST, BEAUFORT, SC 29902
9	R120 006 000 0303	OLIVA C & BENJAMIN HASSEL	2801 W ROYAL OAKS DR, BEAUFORT, SC 29902
10	R120 006 000 0304	DONNA M & WILLIAM R MCCOY JR	812 BATTERY CREEK RD, BEAUFORT, SC 29902
11	R120 006 000 0305	JOSE N HERNANDEZ	810 BATTERY CREEK RD, BEAUFORT, SC 29902
12	R120 006 000 0306	JOHN L HELES	808 BATTERY CREEK RD, BEAUFORT, SC 29902
13	R120 006 000 0307	LORRI K & RALPH STANLEY JR	806 BATTERY CREEK RD, BEAUFORT, SC 29902
14	R120 006 000 0238	VIKKI M & LARRY W MORRIS SR	815 BATTERY CREEK RD, BEAUFORT, SC 29902
15	R120 006 000 0237	ALLISON & THOMAS CONRAD	813 BATTERY CREEK RD, BEAUFORT, SC 29902
16	R120 006 000 0242	VIVIAN Q & SENANDO LORENZO	2612 N ROYAL OAKS DR, BEAUFORT, SC 29902
17	R120 006 000 0243	ERIN MICHELLE & TIMOTHY JOHN GURLEY	2617 N ROYAL OAKS DR, BEAUFORT, SC 29902
18	R120 006 000 0208	KAY M & STEPHEN M KEELER	2608 N ROYAL OAKS DR, BEAUFORT, SC 29902
19	R120 006 000 324A	SANDRA G & RONALD L VORSELI	702 BATTERY CREEK RD, BEAUFORT, SC 29902
20	R120 006 000 0254	HEIDI M & ROBERT G HARVEY	703 BATTERY CREEK RD, BEAUFORT, SC 29902
21	R120 006 000 0291	JANET C & HAL G HORTON JR	2850 W ROYAL OAKS DR, BEAUFORT, SC 29902
22	R120 006 000 290A	BIWSA	6 SNAKE RD, OKATIE, SC 29909
23	R120 006 000 0229	SHIRLEY L KUMPF	2610 FIRST BLVD, BEAUFORT, SC 29902
24	R120 006 000 032A	CITY OF BEAUFORT	1911 BOUNDARY ST, BEAUFORT, SC 29902
25	R120 006 000 0228	RENEE T MULVHILL	PO BOX 4381, IRMO, SC 29063
26	R120 006 000 324B	ROBERT CAMPBELL	719 JANE WAY, BEAUFORT, SC 29902
27	R120 006 000 0226	MARY M & PETE L GODBEY	2600 FIRST BLVD, BEAUFORT, SC 29902
28	R120 006 000 0253	RICHARD S CHIAVELLO, BRENNAE COLLINS-MEAD JTKOS	2501 N ROYAL OAKS DR, BEAUFORT, SC 29902
29	R120 006 000 0220	LILLIAN H DENNIS	2504 N ROYAL OAKS DR, BEAUFORT, SC 29902
30	R120 006 000 0323	VALERIE M LONG	718 JANE WAY, BEAUFORT, SC 29902
31	R120 007 000 0512	DAVID W MORRIS	712 CENTER DR W, BEAUFORT, SC 29902
32	R120 006 000 0225	JONNIE K & CHARLES E HALDT	800 JANE WAY, BEAUFORT, SC 29902
33	R120 007 000 0528	EVE T & DANIEL S HEATON	800 CENTER DR W, BEAUFORT, SC 29902
34	R120 006 000 0224	HAZEL W & HERBERT WAYNE LANIER	802 JANE WAY, BEAUFORT, SC 29902
35	R120 007 000 0529	JOANNE B HARDYMAN	802 CENTER DR W, BEAUFORT, SC 29902
36	R120 006 000 0223	SUSAN MILLS TUCKER	804 JANE WAY, BEAUFORT, SC 29902
37	R120 007 000 0530	RIO ELLIS COX III	804 CENTER DR W, BEAUFORT, SC 29902
38	R120 006 000 0222	KAREN H STODDARD	804 PINCKNEY ST, BEAUFORT, SC 29902
39	R120 007 000 0531	KAREN L & JAMES H SMITH	41 DULAMO BLUFF RD, SAINT HELENA ISLAND, SC 29920
40	R120 006 000 0221	BRIAN G PIRTLE	808 JANE WAY, BEAUFORT, SC 29902
41	R120 007 000 0532	MATTHEW C FORRESTER, RACHEL SCHWIDNT	808 CENTER DR W, BEAUFORT, SC 29902
42	R120 007 000 0079	BEAUFORT COUNTY SCHOOL BOARD	PO BOX 309, BEAUFORT, SC 29901

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REV. NO.	BY	DATE	DESCRIPTION OF REVISION
	DESIGNED BY: M. HAMMOND	DATE 07/11/2019	
	DRAWN BY: L. WILEN	DATE 12/17/2019	
	CHECKED BY: J. FRALK	DATE --/--/--	

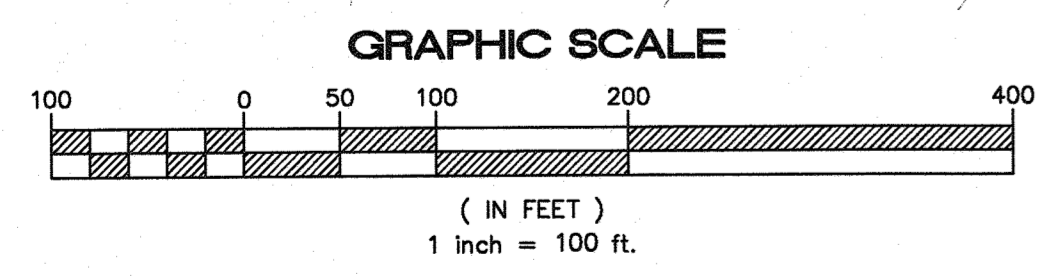
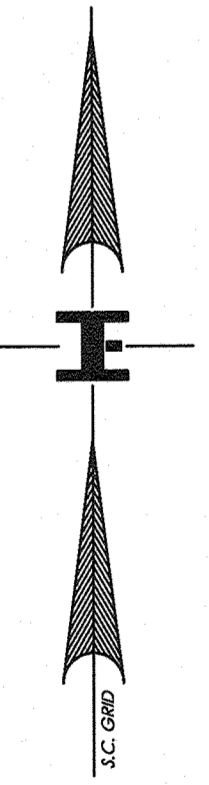
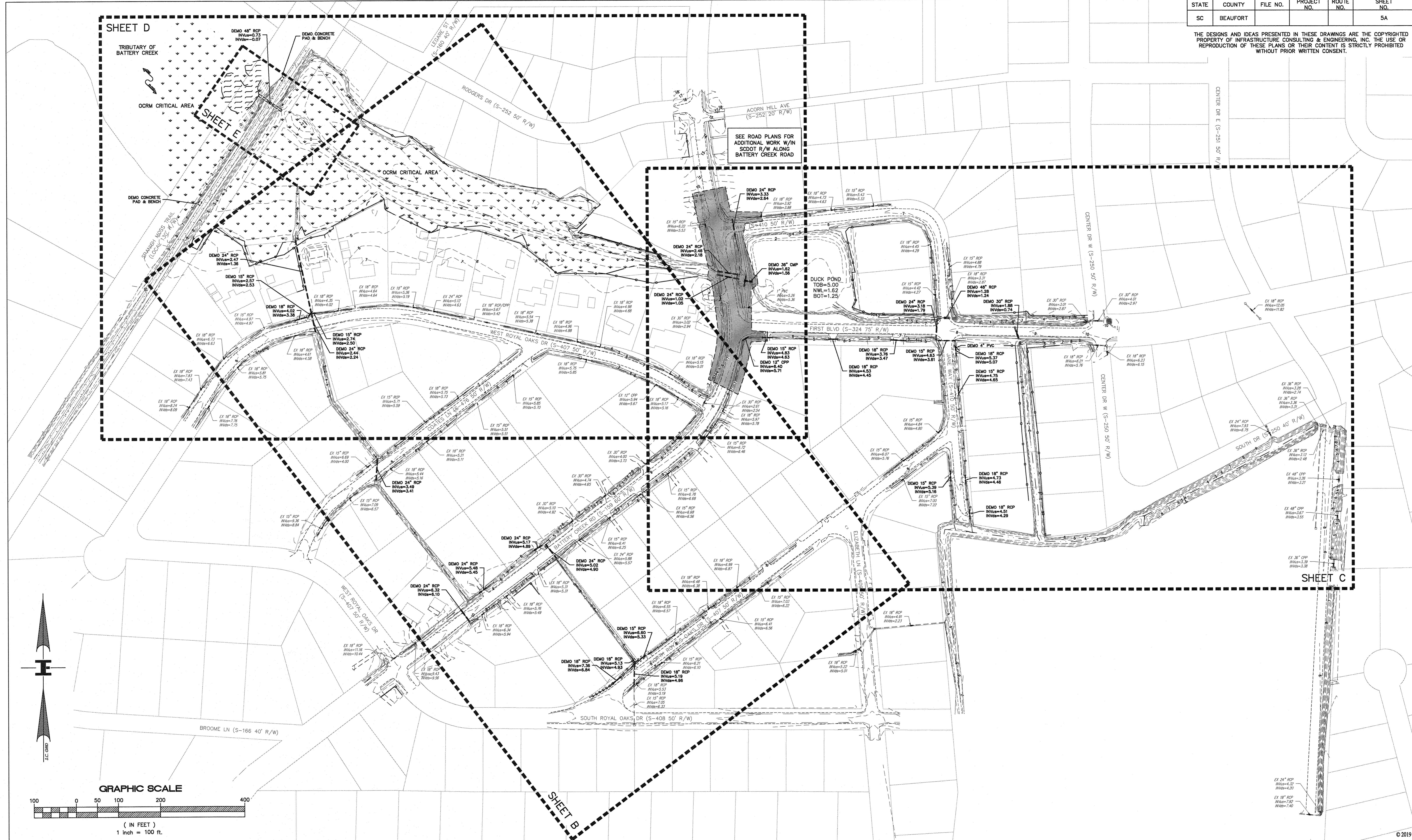
BEAUFORT COUNTY
CITY OF BEAUFORT

MOSSY OAKS BASIN 1 – WEST ROYAL OAKS DRAINAGE ALIGNMENT & PROPERTY OWNER SHEET

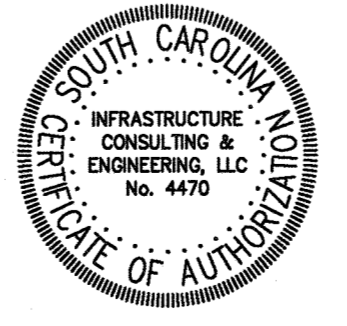
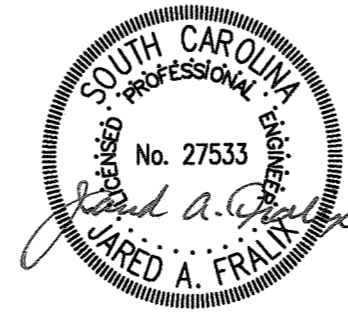
SHEET 4 SCALE: 1"=100'

STATE	COUNTY	FILE NO.	PROJECT NO.	ROUTE NO.	SHEET NO.
SC	BEAUFORT				5A

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REV. NO.	BY	DATE	DESCRIPTION OF REVISION
	DESIGNED BY: M. HAMMOND	DATE 07/11/2019	
	DRAWN BY: L. WILEN	DATE 12/17/2019	
	CHECKED BY: J. FRALIX	DATE --/--/--	

BEAUFORT COUNTY
CITY OF BEAUFORT

MOSSY OAKS BASIN 1 – WEST ROYAL OAKS
DRAINAGE IMPROVEMENT PLAN

SHEET 5A

SCALE: 1"=100'

STATE	COUNTY	FILE NO.	PROJECT NO.	ROUTE NO.	SHEET NO.
SC	BEAUFORT				5B

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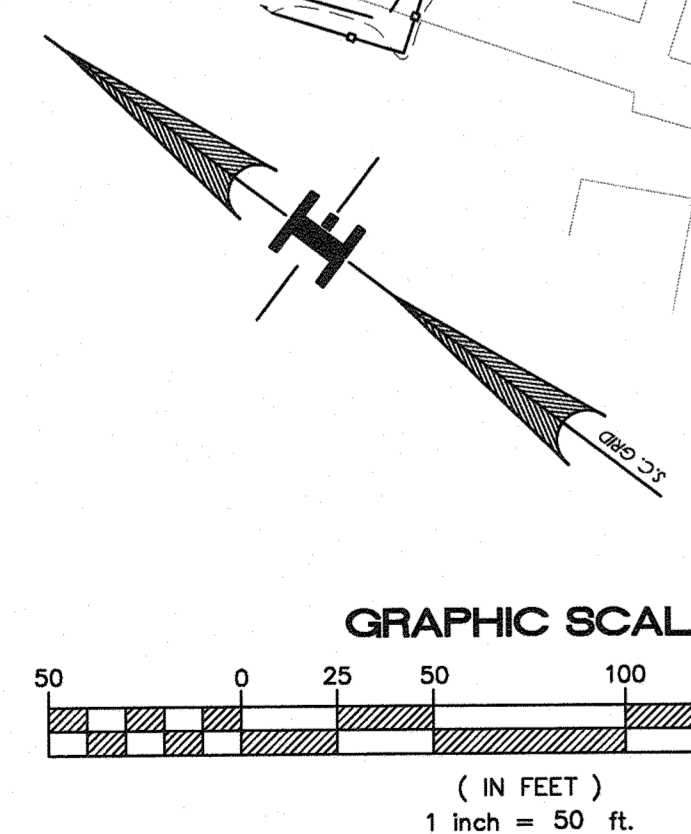
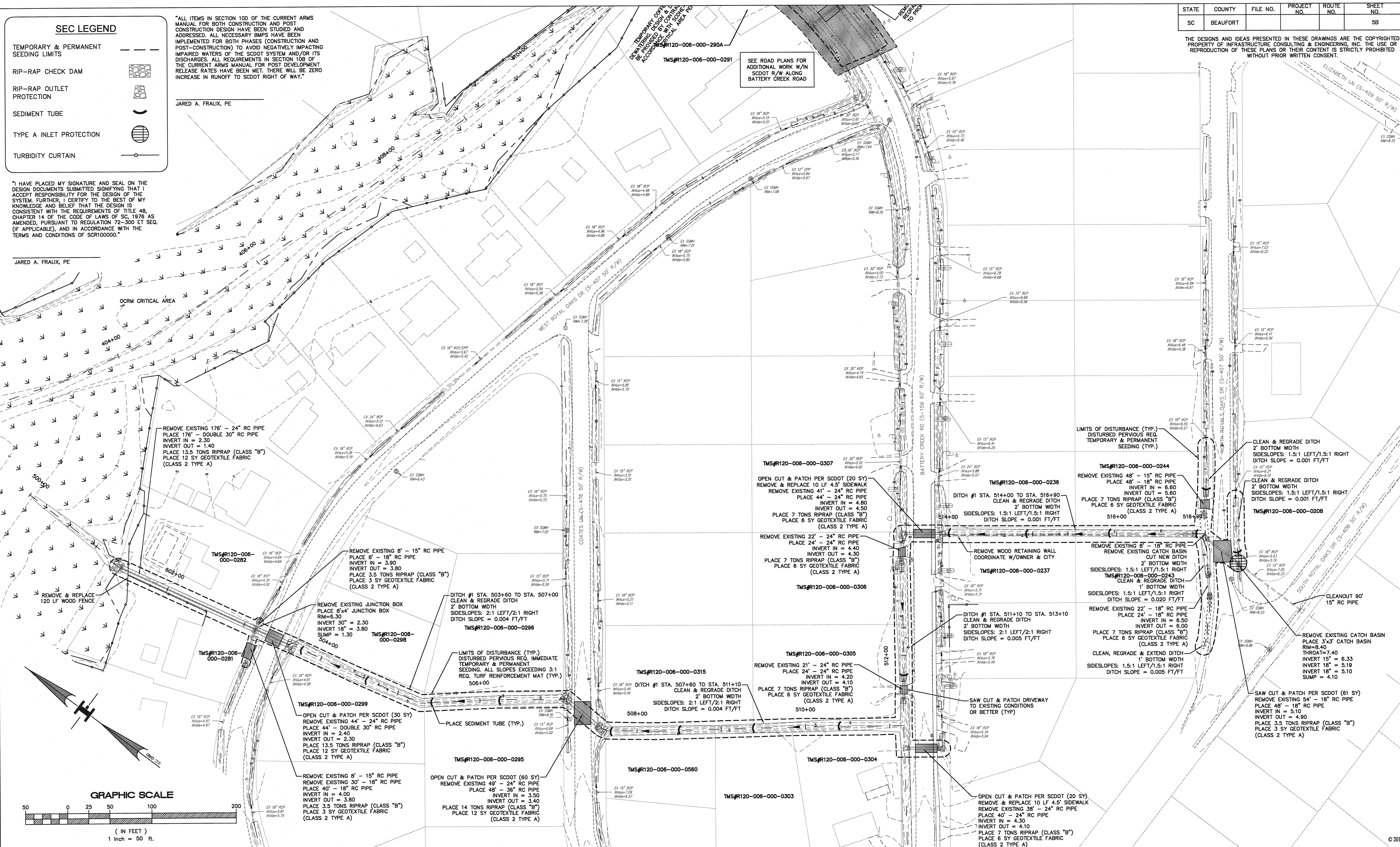
SEC LEGEND

- TEMPORARY & PERMANENT SEEDING LIMITS
- RIP-RAP CHECK DAM
- RIP-RAP OUTLET PROTECTION
- SEDIMENT TUBE
- TYPE A INLET PROTECTION
- TURBIDITY CURTAIN

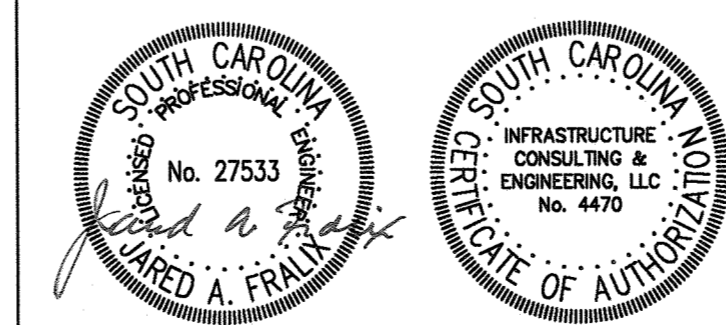
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"I HAVE PLACED MY SIGNATURE AND SEAL ON THE DESIGN DOCUMENTS SUBMITTED SIGNIFYING THAT I ACCEPT RESPONSIBILITY FOR THE DESIGN OF THE SYSTEM. FURTHER, I CERTIFY TO THE BEST OF MY KNOWLEDGE AND BELIEF THAT THE DESIGN IS CONSISTENT WITH THE REQUIREMENTS OF TITLE 48, CHAPTER 14 OF THE CODE OF LAWS OF SC, 1976 AS AMENDED, PURSUANT TO REGULATION 72-300 ET SEQ. (IF APPLICABLE), AND IN ACCORDANCE WITH THE TERMS AND CONDITIONS OF SCR100000."

JARED A. FRALIX, PE



IE INFRASTRUCTURE CONSULTING & ENGINEERING



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REV. NO.	BY	DATE	DESCRIPTION OF REVISION
DESIGNED BY:	M. HAMMOND	DATE 07/11/2019	
DRAWN BY:	L. WILEN	DATE 12/17/2019	
CHECKED BY:	J. FRALIX	DATE --/--/--	

BEAUFORT COUNTY
CITY OF BEAUFORT

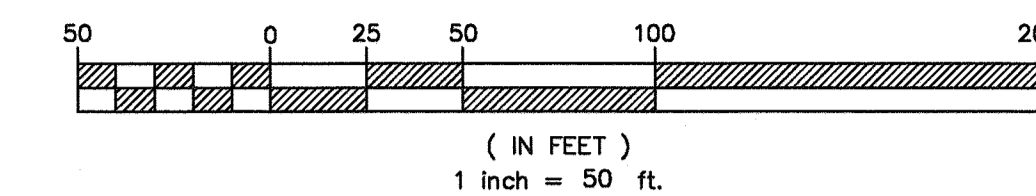
MOSSY OAKS BASIN 1 – WEST ROYAL OAKS
DRAINAGE IMPROVEMENT PLAN

SHEET 5B SCALE: 1"=50'

STATE	COUNTY	FILE NO.	PROJECT NO.	ROUTE NO.	SHEET NO.
SC	BEAUFORT				5C

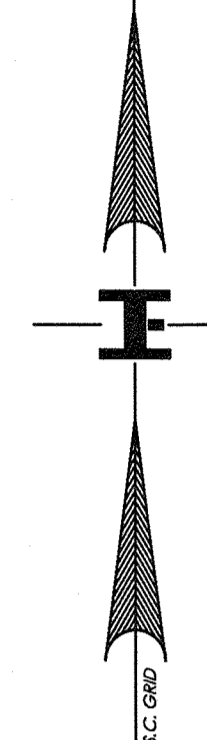
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GRAPHIC SCALE



SEC LEGEND

- TEMPORARY & PERMANENT SEEDING LIMITS
- RIP-RAP CHECK DAM
- RIP-RAP OUTLET PROTECTION
- SEDIMENT TUBE
- TYPE A INLET PROTECTION
- TURBIDITY CURTAIN



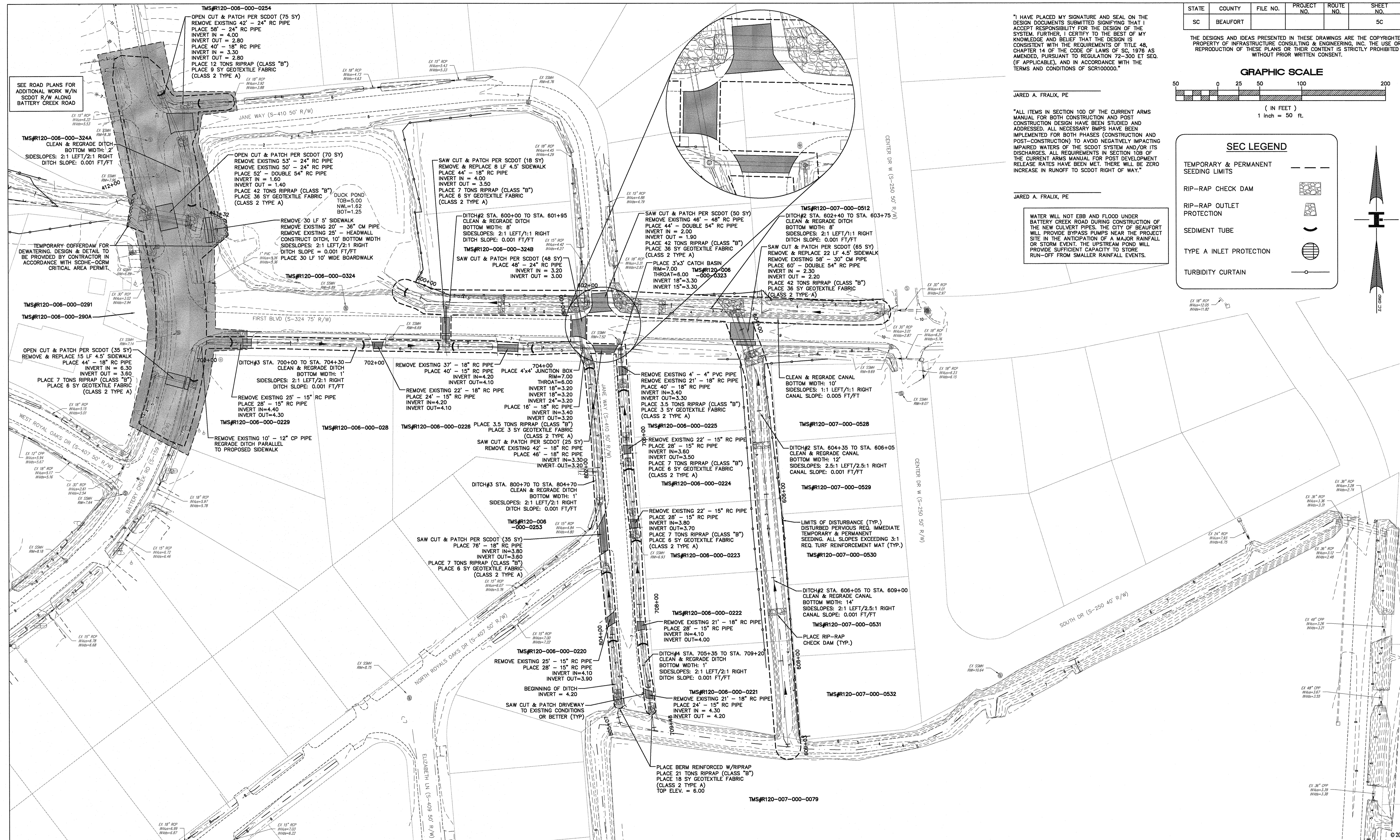
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JARED A. FRALIX, PE

WATER WILL NOT EBB AND FLOOD UNDER BATTERY CREEK ROAD DURING CONSTRUCTION OF THE NEW CULVERT PIPES. THE CITY OF BEAUFORT WILL PROVIDE BYPASS PUMPS NEAR THE PROJECT SITE IN THE ANTICIPATION OF A MAJOR RAINFALL OR STORM EVENT. THE UPSTREAM POND WILL PROVIDE SUFFICIENT CAPACITY TO STORE RUN-OFF FROM SMALLER RAINFALL EVENTS.



SEE ROAD PLANS FOR ADDITIONAL WORK W/IN SCDDOT R/W ALONG BATTERY CREEK ROAD

TEMPORARY COFFERDAM FOR DEWATERING. DESIGN & DETAIL TO BE PROVIDED BY CONTRACTOR IN ACCORDANCE WITH SCDFE-OCRM CRITICAL AREA PERMIT.

TMS#R120-006-000-0254
OPEN CUT & PATCH PER SCDDOT (75 SY)
REMOVE EXISTING 42" - 24" RC PIPE
PLACE 58" - 24" RC PIPE
INVERT IN = 4.00
INVERT OUT = 2.80
PLACE 40" - 18" RC PIPE
INVERT IN = 3.30
INVERT OUT = 2.80
PLACE 12 TONS RIPRAP (CLASS "B")
PLACE 9 SY GEOTEXTILE FABRIC (CLASS 2 TYPE A)

TMS#R120-006-000-024A
CLEAN & REGRADE DITCH
BOTTOM WIDTH: 2'
SIDESLOPES: 2:1 LEFT/2:1 RIGHT
DITCH SLOPE: 0.001 FT/FT

TMS#R120-006-000-0324
REMOVE EXISTING 48" - 18" RC PIPE
REMOVE EXISTING 25" - 36" CM PIPE
REMOVE EXISTING 25" - HEADWALL
CONSTRUCT DITCH, 10' BOTTOM WIDTH
SIDESLOPES: 2:1 LEFT/2:1 RIGHT
DITCH SLOPE: 0.001 FT/FT
PLACE 30 LF 10" WIDE BOARDWALK

TMS#R120-006-000-0291
TMS#R120-006-000-290A
OPEN CUT & PATCH PER SCDDOT (35 SY)
REMOVE & REPLACE 15 LF 4.5" SIDEWALK
PLACE 44" - 18" RC PIPE
INVERT IN = 6.30
INVERT OUT = 3.60
PLACE 7 TONS RIPRAP (CLASS "B")
PLACE 6 SY GEOTEXTILE FABRIC (CLASS 2 TYPE A)

TMS#R120-006-000-0229
REMOVE EXISTING 10" - 12" CP PIPE
REGRADE DITCH PARALLEL TO PROPOSED SIDEWALK

TMS#R120-006-000-0228
REMOVE EXISTING 37" - 18" RC PIPE
PLACE 40" - 15" RC PIPE
INVERT IN=4.20
INVERT OUT=4.10
REMOVE EXISTING 22" - 18" RC PIPE
PLACE 24" - 15" RC PIPE
INVERT IN=4.20
INVERT OUT=4.10
PLACE 16" - 18" RC PIPE
INVERT IN=3.40
INVERT OUT=3.20
PLACE 3.5 TONS RIPRAP (CLASS "B")
PLACE 3 SY GEOTEXTILE FABRIC (CLASS 2 TYPE A)

TMS#R120-006-000-0226
REMOVE EXISTING 42" - 18" RC PIPE
PLACE 46" - 18" RC PIPE
INVERT IN=3.30
INVERT OUT=3.20
SAW CUT & PATCH PER SCDDOT (25 SY)
REMOVE EXISTING 42" - 18" RC PIPE
PLACE 46" - 18" RC PIPE
INVERT IN=3.30
INVERT OUT=3.20

TMS#R120-006-000-0225
REMOVE EXISTING 22" - 15" RC PIPE
PLACE 28" - 15" RC PIPE
INVERT IN=3.80
INVERT OUT=3.70
REMOVE EXISTING 22" - 15" RC PIPE
PLACE 28" - 15" RC PIPE
INVERT IN=3.80
INVERT OUT=3.70
PLACE 7 TONS RIPRAP (CLASS "B")
PLACE 6 SY GEOTEXTILE FABRIC (CLASS 2 TYPE A)

TMS#R120-006-000-0224
REMOVE EXISTING 22" - 15" RC PIPE
PLACE 28" - 15" RC PIPE
INVERT IN=3.80
INVERT OUT=3.70
REMOVE EXISTING 22" - 15" RC PIPE
PLACE 28" - 15" RC PIPE
INVERT IN=3.80
INVERT OUT=3.70
PLACE 7 TONS RIPRAP (CLASS "B")
PLACE 6 SY GEOTEXTILE FABRIC (CLASS 2 TYPE A)

TMS#R120-006-000-0223
REMOVE EXISTING 22" - 15" RC PIPE
PLACE 28" - 15" RC PIPE
INVERT IN=3.80
INVERT OUT=3.70
REMOVE EXISTING 22" - 15" RC PIPE
PLACE 28" - 15" RC PIPE
INVERT IN=3.80
INVERT OUT=3.70
PLACE 7 TONS RIPRAP (CLASS "B")
PLACE 6 SY GEOTEXTILE FABRIC (CLASS 2 TYPE A)

TMS#R120-006-000-0222
REMOVE EXISTING 21" - 18" RC PIPE
PLACE 24" - 15" RC PIPE
INVERT IN=4.10
INVERT OUT=4.00
DITCH#2 STA. 705+35 TO STA. 709+20
CLEAN & REGRADE DITCH
BOTTOM WIDTH: 1'
SIDESLOPES: 2:1 LEFT/2:1 RIGHT
DITCH SLOPE: 0.001 FT/FT

TMS#R120-006-000-0221
REMOVE EXISTING 21" - 18" RC PIPE
PLACE 24" - 15" RC PIPE
INVERT IN = 4.30
INVERT OUT = 4.20
PLACE BERM REINFORCED W/RIPRAP
PLACE 21 TONS RIPRAP (CLASS "B")
PLACE 18 SY GEOTEXTILE FABRIC (CLASS 2 TYPE A)
TOP ELEV. = 6.00

TMS#R120-006-000-0220
REMOVE EXISTING 25" - 15" RC PIPE
PLACE 28" - 15" RC PIPE
INVERT IN=4.10
INVERT OUT=3.90
BEGINNING OF DITCH
INVERT = 4.20
SAW CUT & PATCH DRIVEWAY TO EXISTING CONDITIONS OR BETTER (TYP)

TMS#R120-006-000-0219
REMOVE EXISTING 25" - 15" RC PIPE
PLACE 28" - 15" RC PIPE
INVERT IN=4.10
INVERT OUT=3.90
BEGINNING OF DITCH
INVERT = 4.20
SAW CUT & PATCH DRIVEWAY TO EXISTING CONDITIONS OR BETTER (TYP)

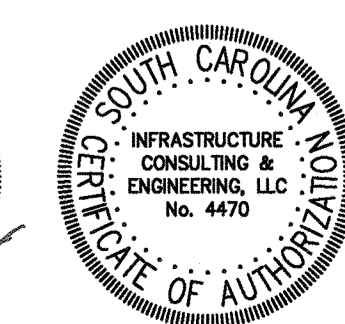
TMS#R120-006-000-0218
REMOVE EXISTING 25" - 15" RC PIPE
PLACE 28" - 15" RC PIPE
INVERT IN=4.10
INVERT OUT=3.90
BEGINNING OF DITCH
INVERT = 4.20
SAW CUT & PATCH DRIVEWAY TO EXISTING CONDITIONS OR BETTER (TYP)

TMS#R120-006-000-0217
REMOVE EXISTING 25" - 15" RC PIPE
PLACE 28" - 15" RC PIPE
INVERT IN=4.10
INVERT OUT=3.90
BEGINNING OF DITCH
INVERT = 4.20
SAW CUT & PATCH DRIVEWAY TO EXISTING CONDITIONS OR BETTER (TYP)

TMS#R120-006-000-0216
REMOVE EXISTING 25" - 15" RC PIPE
PLACE 28" - 15" RC PIPE
INVERT IN=4.10
INVERT OUT=3.90
BEGINNING OF DITCH
INVERT = 4.20
SAW CUT & PATCH DRIVEWAY TO EXISTING CONDITIONS OR BETTER (TYP)

TMS#R120-006-000-0215
REMOVE EXISTING 25" - 15" RC PIPE
PLACE 28" - 15" RC PIPE
INVERT IN=4.10
INVERT OUT=3.90
BEGINNING OF DITCH
INVERT = 4.20
SAW CUT & PATCH DRIVEWAY TO EXISTING CONDITIONS OR BETTER (TYP)

INFRASTRUCTURE CONSULTING & ENGINEERING



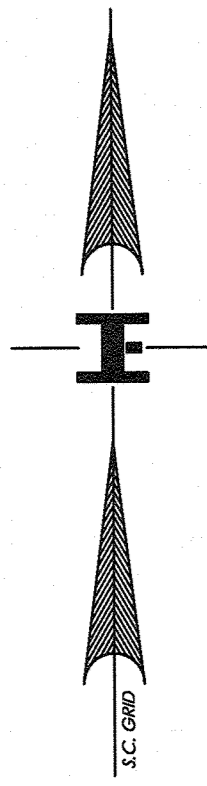
REV. NO.	BY	DATE	DESCRIPTION OF REVISION
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DESIGNED BY:	M. HAMMOND	DATE	07/11/2019
DRAWN BY:	L. WILLEN	DATE	12/17/2019
CHECKED BY:	J. FRALIX	DATE	--/--

BEAUFORT COUNTY CITY OF BEAUFORT	
MOSSY OAKS BASIN 1 - WEST ROYAL OAKS DRAINAGE IMPROVEMENT PLAN	
SHEET 5C	SCALE: 1"=50'

STATE	COUNTY	FILE NO.	PROJECT NO.	ROUTE NO.	SHEET NO.
SC	BEAUFORT				5D

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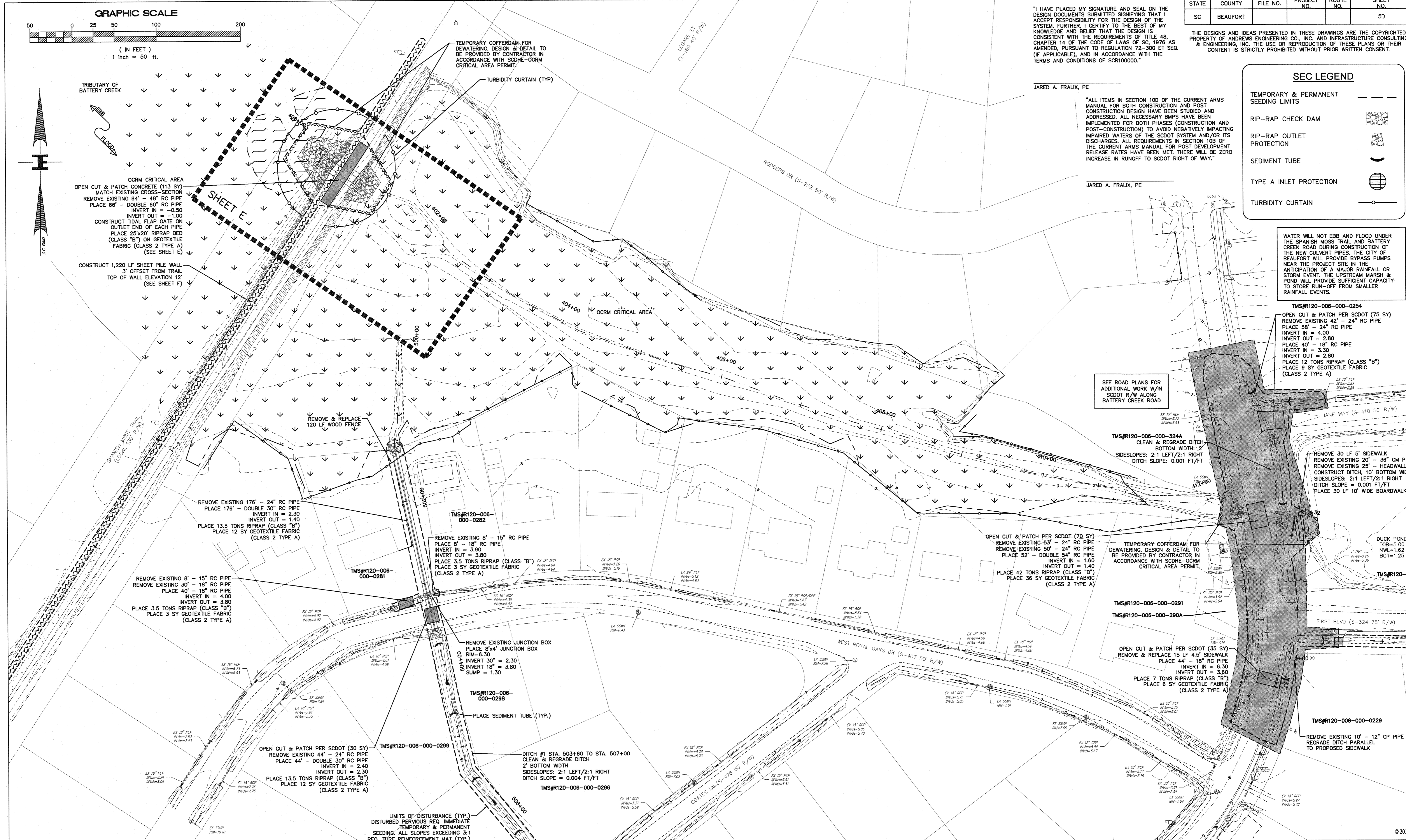


SEC LEGEND	
TEMPORARY & PERMANENT SEEDING LIMITS	---
RIP-RAP CHECK DAM	
RIP-RAP OUTLET PROTECTION	
SEDIMENT TUBE	
TYPE A INLET PROTECTION	
TURBIDITY CURTAIN	

JARED A. FRALIX, PE
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JARED A. FRALIX, PE

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OCRM CRITICAL AREA
 OPEN CUT & PATCH CONCRETE (113 SY)
 MATCH EXISTING CROSS-SECTION
 REMOVE EXISTING 64" - 48" RC PIPE
 PLACE 66" - DOUBLE 60" RC PIPE
 INVERT IN = -0.50
 INVERT OUT = -1.00
 CONSTRUCT TIDAL FLAP GATE ON
 OUTLET END OF EACH PIPE
 PLACE 25'x20' RIPRAP BED
 (CLASS "B") ON GEOTEXTILE
 FABRIC (CLASS 2 TYPE A)
 (SEE SHEET E)
 CONSTRUCT 1,220 LF SHEET PILE WALL
 3' OFFSET FROM TRAIL
 TOP OF WALL ELEVATION 12'
 (SEE SHEET F)

REMOVE EXISTING 176" - 24" RC PIPE
 PLACE 176" - DOUBLE 30" RC PIPE
 INVERT IN = 2.30
 INVERT OUT = 1.40
 PLACE 13.5 TONS RIPRAP (CLASS "B")
 PLACE 12 SY GEOTEXTILE FABRIC
 (CLASS 2 TYPE A)

REMOVE EXISTING 8" - 15" RC PIPE
 REMOVE EXISTING 30" - 18" RC PIPE
 PLACE 40" - 18" RC PIPE
 INVERT IN = 4.00
 INVERT OUT = 3.80
 PLACE 3.5 TONS RIPRAP (CLASS "B")
 PLACE 3 SY GEOTEXTILE FABRIC
 (CLASS 2 TYPE A)

REMOVE EXISTING 8" - 15" RC PIPE
 PLACE 8" - 18" RC PIPE
 INVERT IN = 3.80
 INVERT OUT = 3.80
 PLACE 3.5 TONS RIPRAP (CLASS "B")
 PLACE 3 SY GEOTEXTILE FABRIC
 (CLASS 2 TYPE A)

REMOVE EXISTING JUNCTION BOX
 PLACE 8'x4' JUNCTION BOX
 RIM=6.30
 INVERT 30" = 2.30
 INVERT 18" = 3.80
 SUMP = 1.30

OPEN CUT & PATCH PER SCODOT (30 SY)
 REMOVE EXISTING 44" - 24" RC PIPE
 PLACE 44" - DOUBLE 30" RC PIPE
 INVERT IN = 2.40
 INVERT OUT = 2.30
 PLACE 13.5 TONS RIPRAP (CLASS "B")
 PLACE 12 SY GEOTEXTILE FABRIC
 (CLASS 2 TYPE A)

DITCH #1 STA. 503+60 TO STA. 507+00
 CLEAN & REGRADE DITCH
 2' BOTTOM WIDTH
 SIDESLOPES: 2:1 LEFT/2:1 RIGHT
 DITCH SLOPE = 0.004 FT/FT

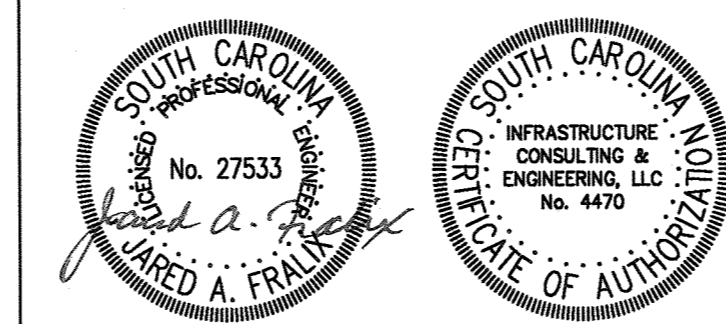
OPEN CUT & PATCH PER SCODOT (70 SY)
 REMOVE EXISTING 53" - 24" RC PIPE
 REMOVE EXISTING 50" - 24" RC PIPE
 PLACE 52" - DOUBLE 54" RC PIPE
 INVERT IN = 1.60
 INVERT OUT = 1.40
 PLACE 42 TONS RIPRAP (CLASS "B")
 PLACE 36 SY GEOTEXTILE FABRIC
 (CLASS 2 TYPE A)

TEMPORARY COFFERDAM FOR
 DEWATERING. DESIGN & DETAIL TO
 BE PROVIDED BY CONTRACTOR IN
 ACCORDANCE WITH SCDE-OCRM
 CRITICAL AREA PERMIT.

OPEN CUT & PATCH PER SCODOT (35 SY)
 REMOVE & REPLACE 15 LF 4.5' SIDEWALK
 PLACE 44" - 18" RC PIPE
 INVERT IN = 6.30
 INVERT OUT = 3.60
 PLACE 7 TONS RIPRAP (CLASS "B")
 PLACE 6 SY GEOTEXTILE FABRIC
 (CLASS 2 TYPE A)

REMOVE 30 LF 5' SIDEWALK
 REMOVE EXISTING 20" - 36" CM PIPE
 REMOVE EXISTING 25" - HEADWALL
 CONSTRUCT DITCH, 10' BOTTOM WIDTH
 SIDESLOPES: 2:1 LEFT/2:1 RIGHT
 DITCH SLOPE = 0.001 FT/FT
 PLACE 30 LF 10' WIDE BOARDWALK

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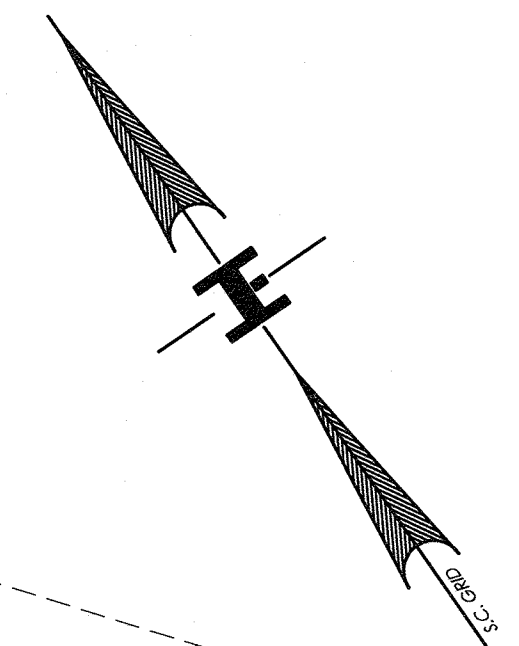
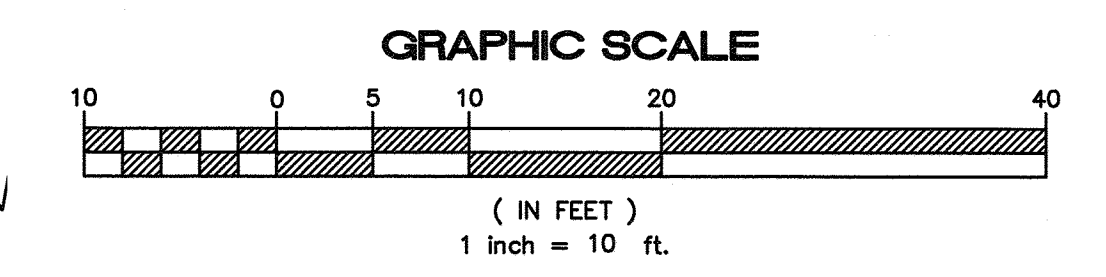
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DESIGNED BY: M. HAMMOND DATE 07/11/2019
 DRAWN BY: L. WILEN DATE 12/17/2019
 CHECKED BY: J. FRALIX DATE --/--/--

BEAUFORT COUNTY
 CITY OF BEAUFORT
 MOSSY OAKS BASIN 1 - WEST ROYAL OAKS
 DRAINAGE IMPROVEMENT PLAN
 SHEET 5D SCALE: 1"=50'

STATE	COUNTY	FILE NO.	PROJECT NO.	ROUTE NO.	SHEET NO.
SC	BEAUFORT				5E

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SEC LEGEND

- TEMPORARY & PERMANENT SEEDING LIMITS
- RIP-RAP CHECK DAM
- RIP-RAP OUTLET PROTECTION
- SEDIMENT TUBE
- TYPE A INLET PROTECTION
- TURBIDITY CURTAIN

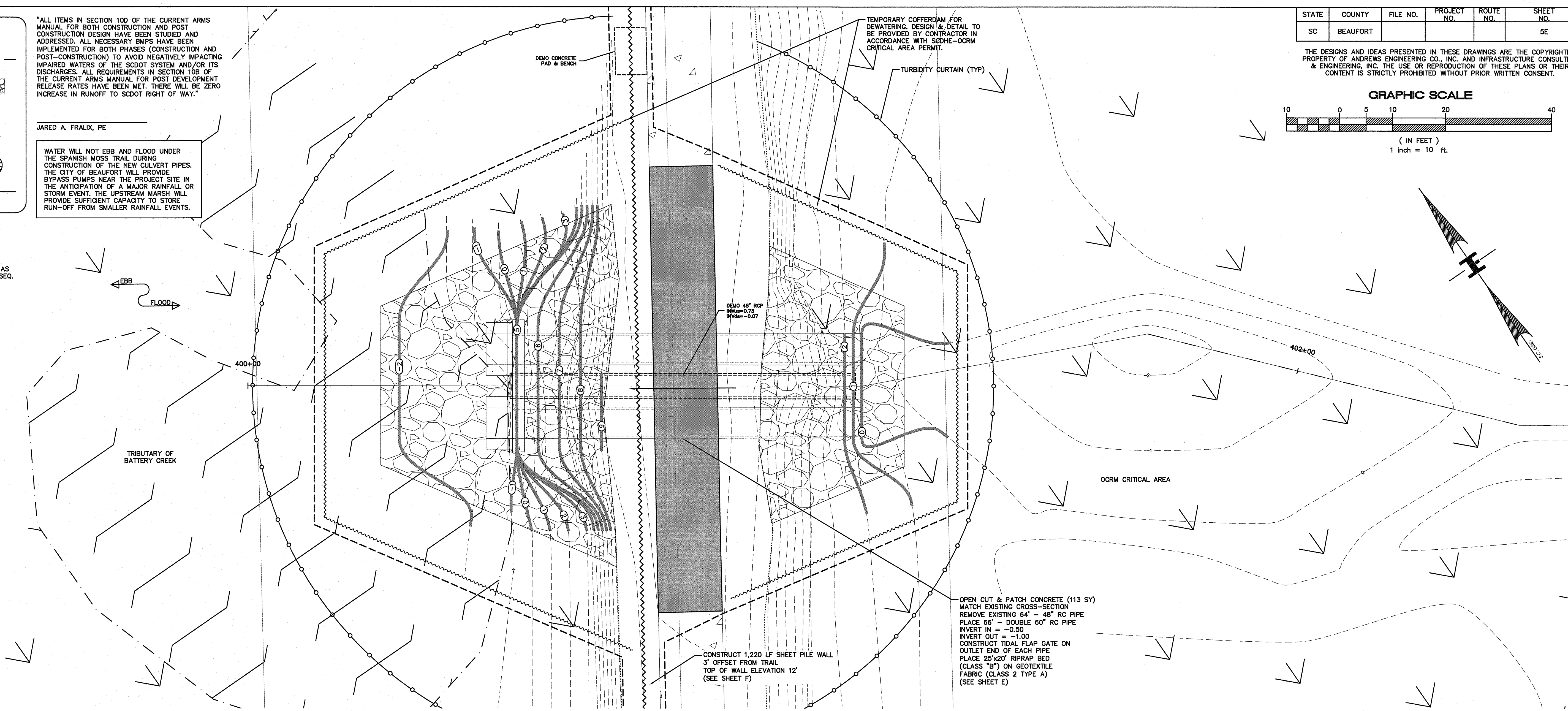
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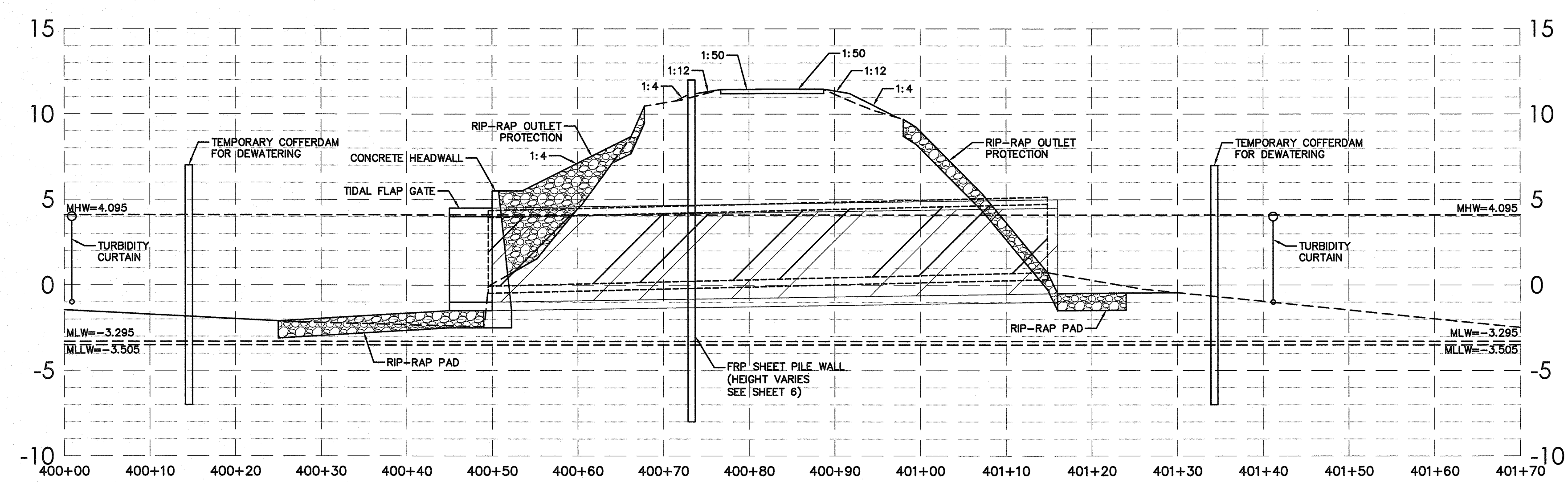
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"I HAVE PLACED MY SIGNATURE AND SEAL ON THE DESIGN DOCUMENTS SUBMITTED SIGNIFYING THAT I ACCEPT RESPONSIBILITY FOR THE DESIGN OF THE SYSTEM. FURTHER, I CERTIFY TO THE BEST OF MY KNOWLEDGE AND BELIEF THAT THE DESIGN IS CONSISTENT WITH THE REQUIREMENTS OF TITLE 48, CHAPTER 14 OF THE CODE OF LAWS OF SC, 1976 AS AMENDED, PURSUANT TO REGULATION 72-300 ET SEQ. (IF APPLICABLE), AND IN ACCORDANCE WITH THE TERMS AND CONDITIONS OF SCRI00000."

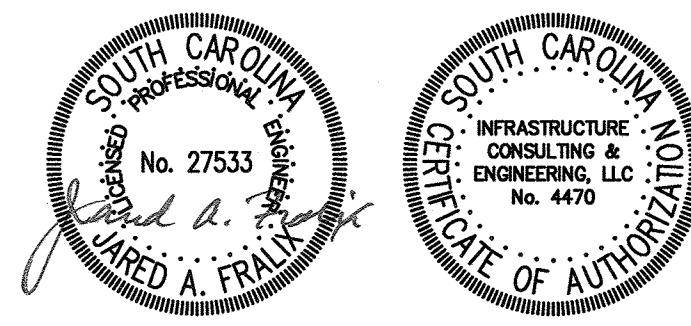
JARED A. FRALIX, PE



- SPANISH MOSS TRAIL CONSTRUCTION SEQUENCE:**
1. INSTALL SHEET PILE WALL (3 WEEKS)
 2. INSTALL COFFERDAM & TURBIDITY CURTAINS (1 WEEK)
 3. REMOVE EXISTING PIPE (1 WEEK)
 4. INSTALL NEW PIPES (2 WEEKS)
 5. INSTALL HEADWALL (2 WEEKS)
 6. INSTALL FLAP GATES (1 WEEK)
 7. INSTALL REMAINING SHEET PILE WALL (1 WEEK)
 8. REMOVE COFFERDAM (1 WEEK)
 9. REPLACE CONCRETE PATHWAY (1 WEEK)
 10. FINAL GRADING & FINAL GRASSING (1 WEEK)
 11. REMOVE ALL EROSION CONTROL DEVICES (1 WEEK)



SECTION A-A
SCALE: VERT 1"=5' HORZ 1"=10'



4			
3			
2			
1			
REV. NO.	BY	DATE	DESCRIPTION OF REVISION
	DESIGNED BY: M. HAMMOND	DATE 07/11/2019	
	DRAWN BY: L. WILEN	DATE 12/17/2019	
	CHECKED BY: J. FRALIX	DATE --/--/--	

BEAUFORT COUNTY
CITY OF BEAUFORT

MOSSY OAKS BASIN 1 – WEST ROYAL OAKS
DRAINAGE IMPROVEMENT PLAN

SHEET 5E SCALE: 1"=10'

STATE	COUNTY	FILE NO.	PROJECT NO.	ROUTE NO.	SHEET NO.
SC	BEAUFORT				6

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WATER WILL NOT EBB AND FLOOD UNDER THE SPANISH MOSS TRAIL DURING CONSTRUCTION OF THE NEW CULVERT PIPES. THE CITY OF BEAUFORT WILL PROVIDE BYPASS PUMPS NEAR THE PROJECT SITE IN THE ANTICIPATION OF A MAJOR RAINFALL OR STORM EVENT. THE UPSTREAM MARSH WILL PROVIDE SUFFICIENT CAPACITY TO STORE RUN-OFF FROM SMALLER RAINFALL EVENTS.

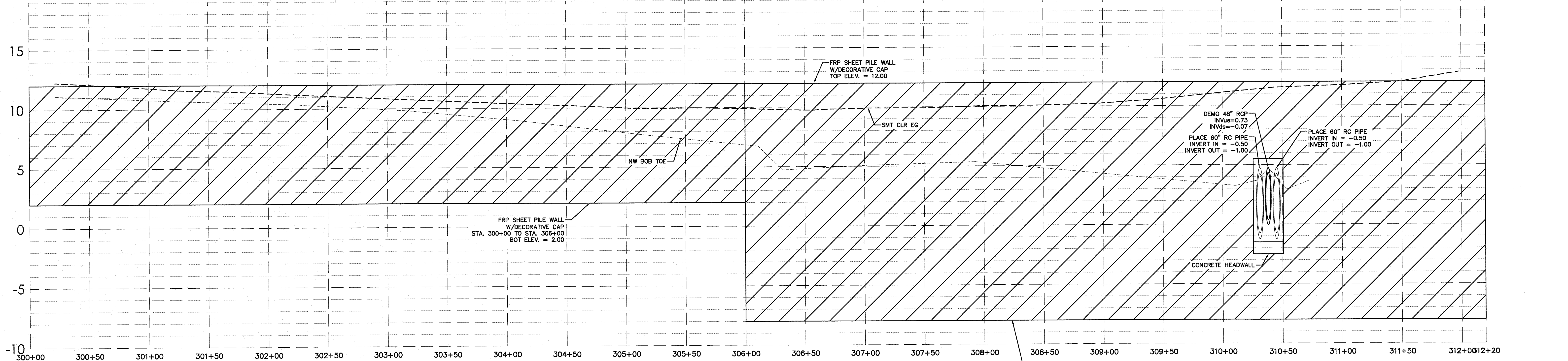
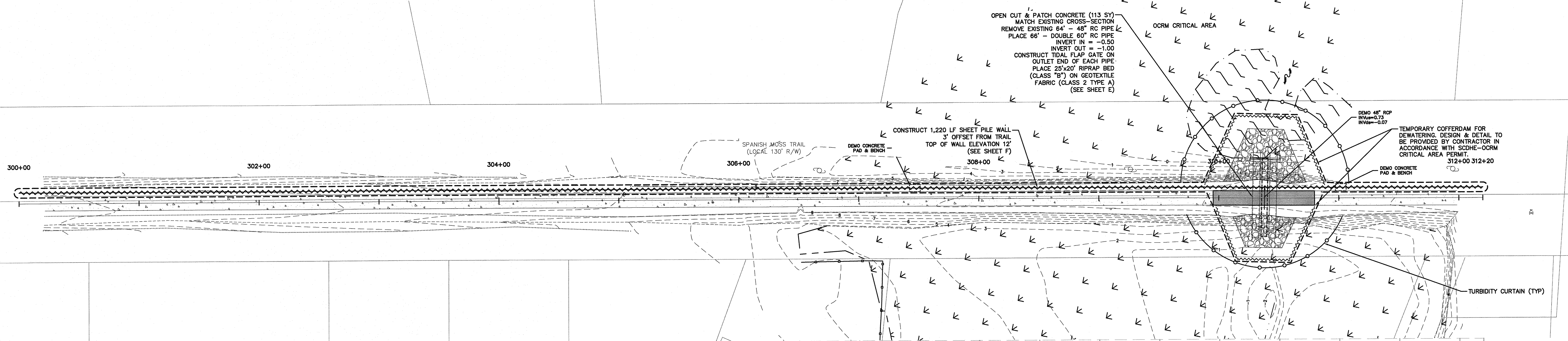
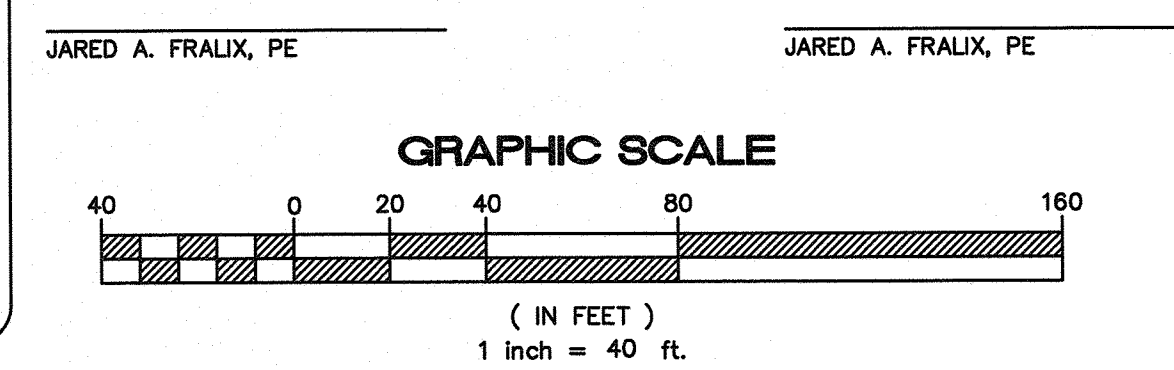
SEC LEGEND

TEMPORARY & PERMANENT SEEDING LIMITS	
RIP-RAP CHECK DAM	
RIP-RAP OUTLET PROTECTION	
SEDIMENT TUBE	
TYPE A INLET PROTECTION	
TURBIDITY CURTAIN	

- SPANISH MOSS TRAIL CONSTRUCTION SEQUENCE:**
1. INSTALL SHEET PILE WALL (3 WEEKS)
 2. INSTALL COFFERDAM & TURBIDITY CURTAINS (1 WEEK)
 3. REMOVE EXISTING PIPE (1 WEEK)
 4. INSTALL NEW PIPES (2 WEEKS)
 5. INSTALL HEADWALL (2 WEEKS)
 6. INSTALL FLAP GATES (1 WEEK)
 7. INSTALL REMAINING SHEET PILE WALL (1 WEEK)
 8. REMOVE COFFERDAM (1 WEEK)
 9. REPLACE CONCRETE PATHWAY (1 WEEK)
 10. FINAL GRADING & FINAL GRASSING (1 WEEK)
 11. REMOVE ALL EROSION CONTROL DEVICES (1 WEEK)

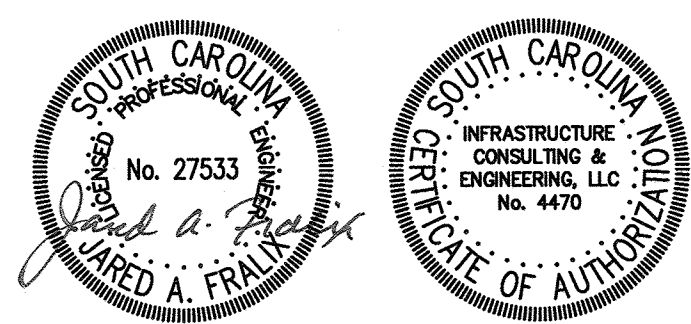
"ALL ITEMS IN SECTION 10D OF THE CURRENT ARMS MANUAL FOR BOTH CONSTRUCTION AND POST CONSTRUCTION DESIGN HAVE BEEN STUDIED AND ADDRESSED. ALL NECESSARY SMPs HAVE BEEN IMPLEMENTED FOR BOTH PHASES (CONSTRUCTION AND POST-CONSTRUCTION) TO AVOID NEGATIVELY IMPACTING IMPAIRED WATERS OF THE SCOTD SYSTEM AND/OR ITS DISCHARGES. ALL REQUIREMENTS IN SECTION 10B OF THE CURRENT ARMS MANUAL FOR POST DEVELOPMENT RELEASE RATES HAVE BEEN MET. THERE WILL BE ZERO INCREASE IN RUNOFF TO SCOTD RIGHT OF WAY."

"I HAVE PLACED MY SIGNATURE AND SEAL ON THE DESIGN DOCUMENTS SUBMITTED SIGNIFYING THAT I ACCEPT RESPONSIBILITY FOR THE DESIGN OF THE SYSTEM. FURTHER, I CERTIFY TO THE BEST OF MY KNOWLEDGE AND BELIEF THAT THE DESIGN IS CONSISTENT WITH THE REQUIREMENTS OF TITLE 48, CHAPTER 14 OF THE CODE OF LAWS OF SC, 1976 AS AMENDED, PURSUANT TO REGULATION 72-300 ET SEQ. (IF APPLICABLE), AND IN ACCORDANCE WITH THE TERMS AND CONDITIONS OF SCRI00000."



SMT - CLR PROFILE
SCALE: VERT 1"=4' HORZ 1"=40'

INFRASTRUCTURE CONSULTING & ENGINEERING



4			
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REV. NO.	BY	DATE	DESCRIPTION OF REVISION
	DESIGNED BY: M. HAMMOND	DATE 07/11/2019	
	DRAWN BY: L. WILEN	DATE 12/17/2019	
	CHECKED BY: J. FRALIX	DATE --/--	

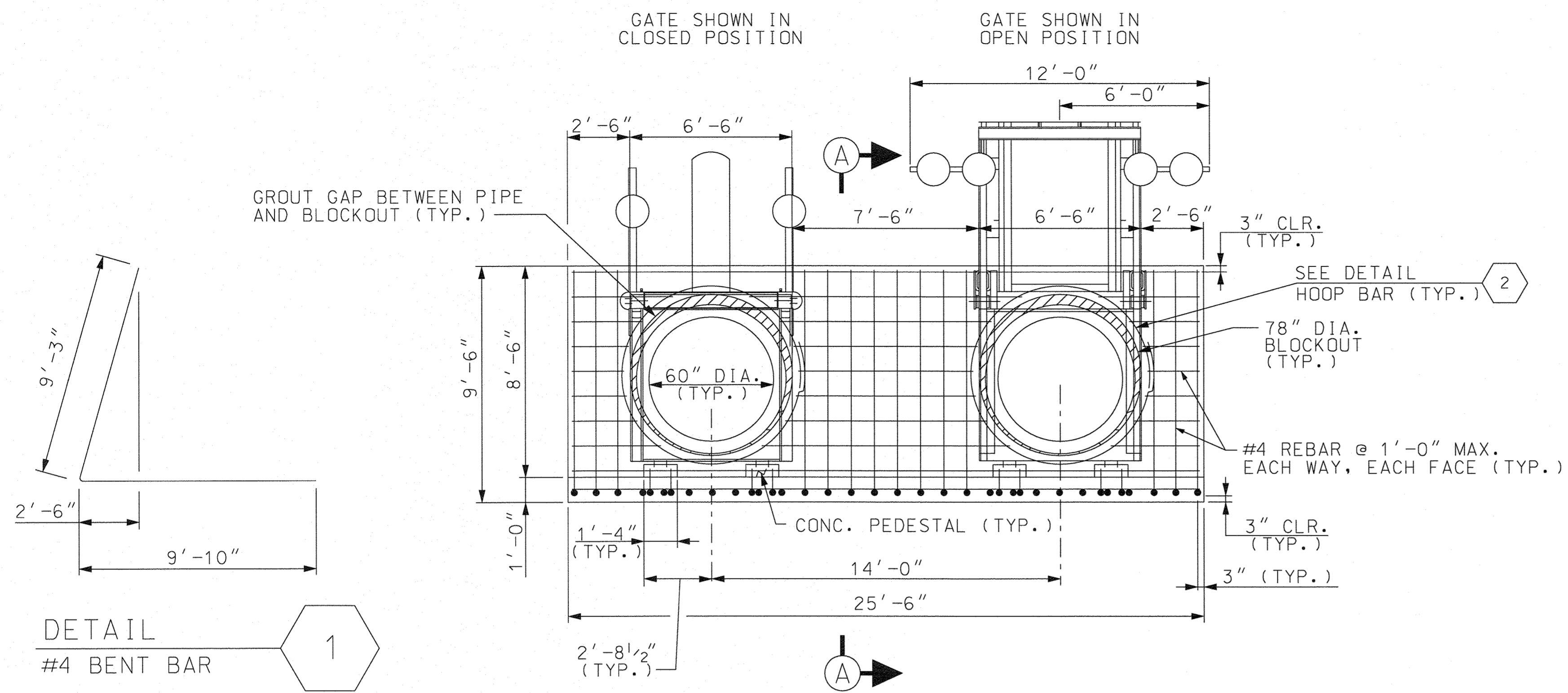
BEAUFORT COUNTY
CITY OF BEAUFORT

MOSSY OAKS BASIN 1 - WEST ROYAL OAKS
FRP WALL PLAN & PROFILE

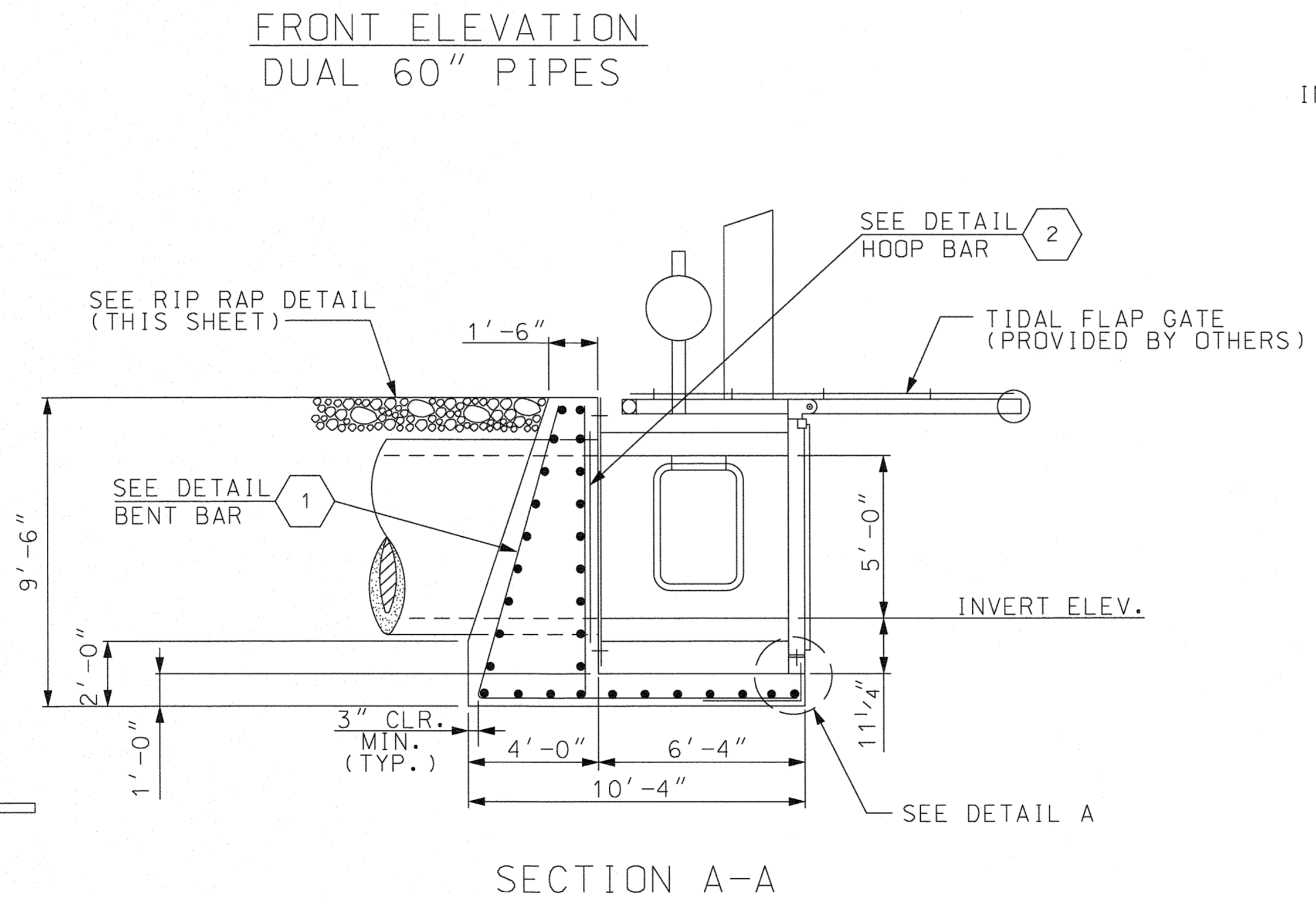
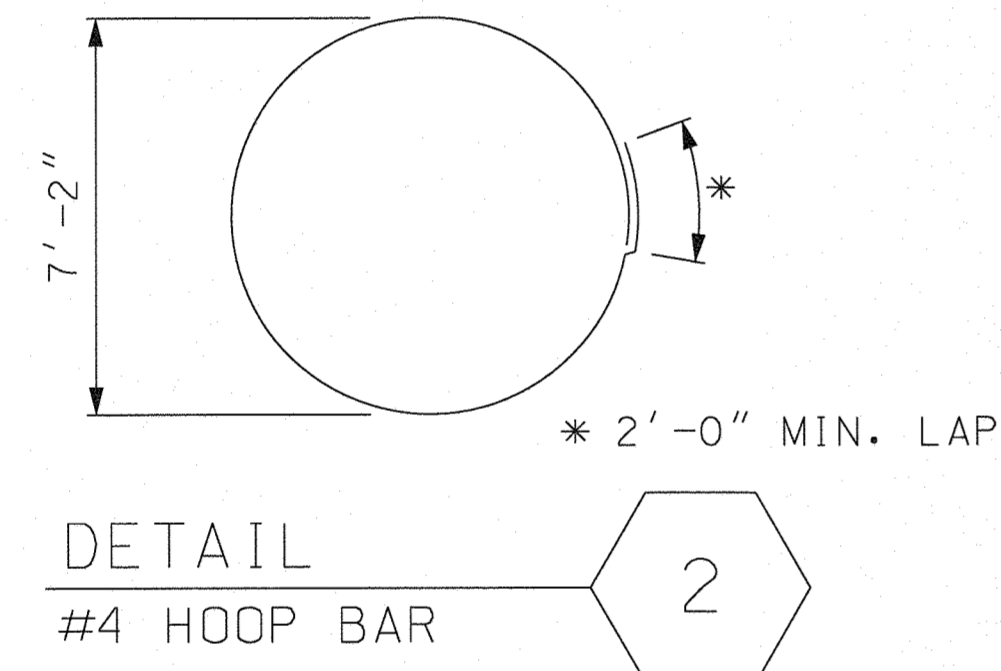
SHEET 6

SCALE: 1"=40'

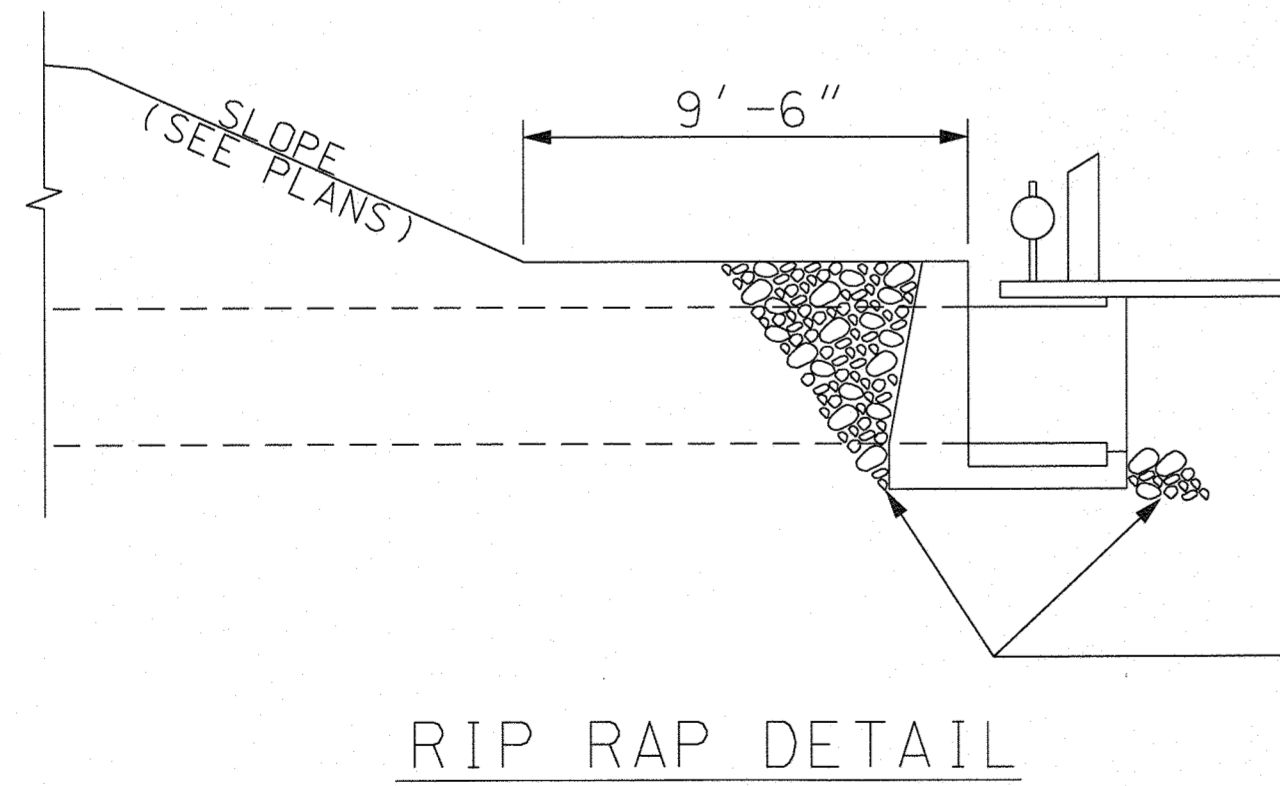
STATE	COUNTY	FILE NO.	PROJECT NO.	ROUTE NO.	SHEET NO.
SC	BEAUFORT			SPANISH MOSS TRAIL	7



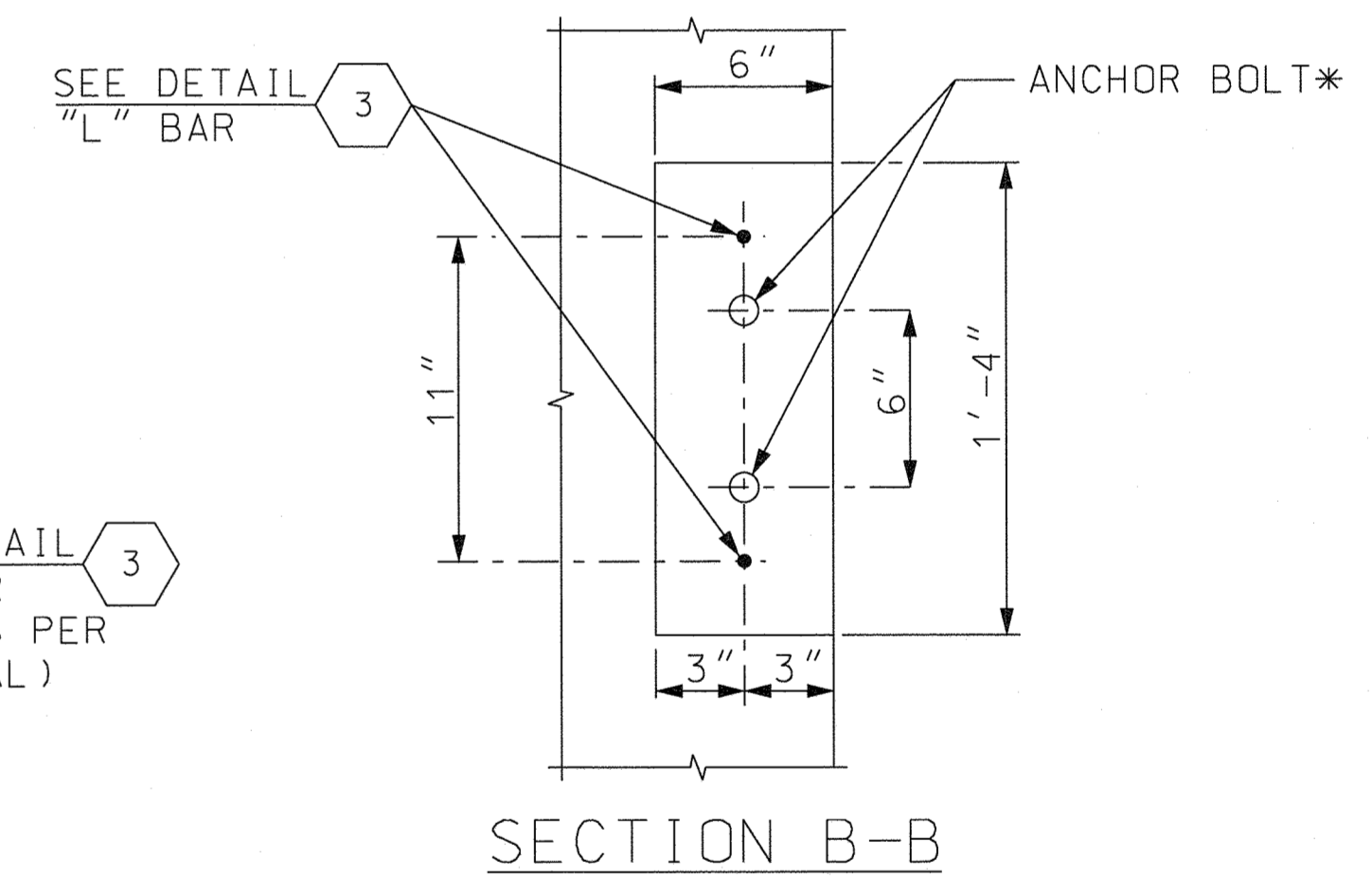
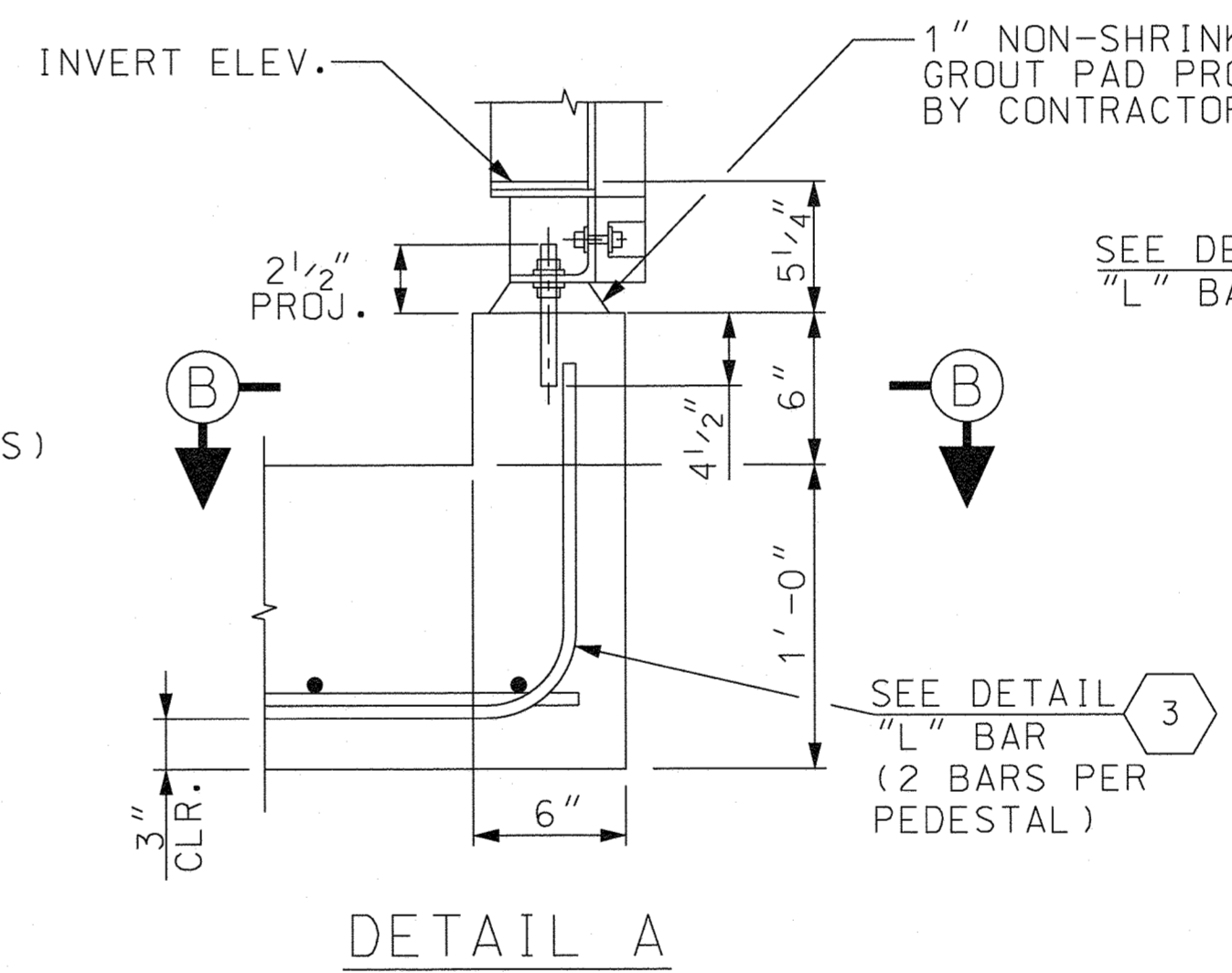
DETAIL #4 BENT BAR 1



SECTION A-A



USE CLASS B RIP-RAP IN ACCORDANCE WITH SCDOT STANDARD SPECIFICATION SECTION 804 FOR BOTH BACKFILL AND WRAP-AROUND. D₅₀ = 0.75', MINIMUM THICKNESS = 1.50'



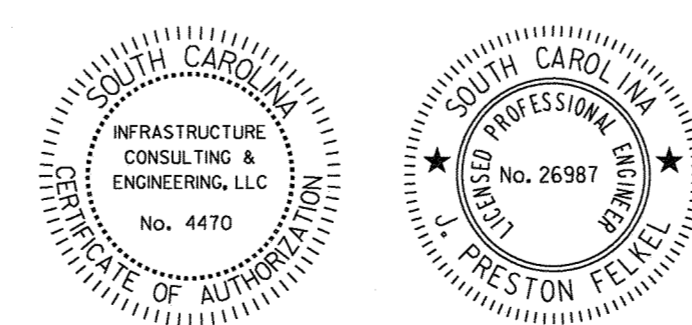
* ANCHOR BOLTS (PROVIDED BY OTHERS) SHALL BE INSTALLED USING HILTI HIT V3 ADHESIVE INJECTION SYSTEM OR APPROVED EQUAL (TYP.)

DETAIL #4 "L" BAR 3

NOTES:

- ALL CONCRETE SHALL BE CAST-IN-PLACE (CLASS 4000).
- REINFORCING STEEL SHALL BE ASTM A-706, LOW-ALLOY STEEL DEFORMED BARS FOR CONCRETE REINFORCEMENT, GRADE 60.
- GROUT SHALL BE TYPE M MORTAR MATERIAL IN ACCORDANCE WITH SECTION 718 OF THE SCDOT STANDARD SPECIFICATIONS FOR HIGHWAY CONSTRUCTION (LATEST EDITION).
- IN THE EVENT THE HEADWALL IS SKEWED TO THE PIPE, THE PORTION OF PIPE THAT PROTRUDES BEYOND THE EXPOSED FACE OF THE HEADWALL SHALL BE CUT FLUSH AND GROUTED SMOOTH WITH THE EXPOSED FACE OF THE HEADWALL.
- PIPES SHALL BE GROUTED IN PLACE.
- PIPES AND HEADWALL SHALL BE BACKFILLED AND COMPACTED AS REQUIRED BY SCDOT STANDARD SPECIFICATIONS. THE CULVERTS SHALL BEAR ON A STONE MAT SUBGRADE. THE SUBGRADE SHALL BE EXCAVATED A MINIMUM OF 2 FEET AND BACKFILLED WITH WELL-GRADED SAND. AT THE BASE OF THE EXCAVATION, PLACE MIRAFI HP270 GEOTEXTILE OR APPROVED EQUIVALENT FOR REINFORCEMENT AND SEPARATION.
- PIPE INVERTS SHALL BE SET IN ACCORDANCE WITH ELEVATIONS SPECIFIED IN THE SPANISH MOSS TRAIL IMPROVEMENT PLANS.
- THE CONTRACT UNIT PRICE FOR STRAIGHT HEADWALL FOR CIRCULAR PIPES SHALL INCLUDE THE COST OF FURNISHING ALL MATERIALS AND WORK INCIDENTAL TO THE CONSTRUCTION OF THE STRUCTURE COMPLETE AND IN PLACE AS SHOWN (INCLUDING CLASS B RIP-RAP, TEMPORARY SHORING & DEWATERING) IN ACCORDANCE WITH THE SCDOT STANDARD SPECIFICATIONS FOR HIGHWAY CONSTRUCTION (LATEST EDITION).
- CONTRACTOR SHALL INSTALL TEMPORARY SHORING AND DEWATER AS NECESSARY TO MAINTAIN A DRY, STABLE WORK ENVIRONMENT.
- THE PAY ITEM SHALL BE:
STRAIGHT CONCRETE HEADWALL (60" PIPE 2 LINES) - EACH

IE INFRASTRUCTURE CONSULTING & ENGINEERING



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REV. NO.	BY	DATE	DESCRIPTION OF REVISION
DESIGNED BY:	JPF	DATE 08/22/2019	
DRAWN BY:	JPF	DATE 08/22/2019	
CHECKED BY:	RAJ	DATE 08/22/2019	

BEAUFORT COUNTY
CITY OF BEAUFORT

SPANISH MOSS TRAIL
BASIN 1
HEADWALL DETAILS

SHEET SCALE: NTS

STATE	COUNTY	FILE NO.	PROJECT NO.	ROUTE NO.	SHEET NO.
SC	BEAUFORT				8

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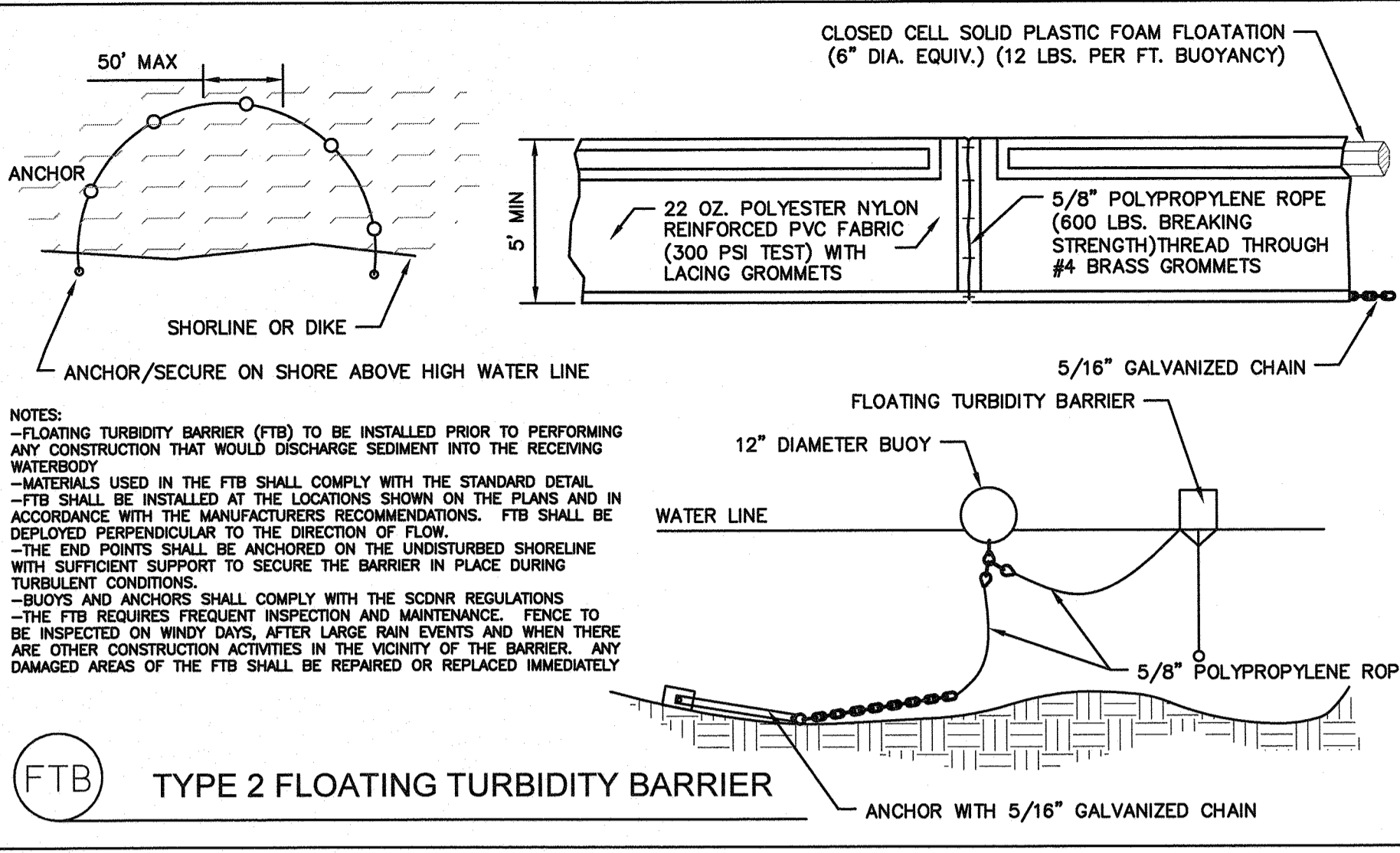
ALL WORK WITHIN THE SCOTT R/W SHALL CONFORM TO THE MOST CURRENT EDITION OF SCOTT STANDARD DRAWINGS THIS INCLUDES, BUT IS NOT LIMITED TO: TEMPORARY CONSTRUCTION ENTRANCES, PAVEMENT, PAVEMENT MARKINGS, SIGNS AND DRAINAGE STRUCTURES. IF DETAILS VARY FROM SCOTT STANDARD DRAWINGS, SCOTT STANDARD DRAWINGS SHALL BE REFERRED TO.

THE FOLLOWING SCOTT STANDARD DRAWING NUMBERS ARE PROVIDED FOR REFERENCE:

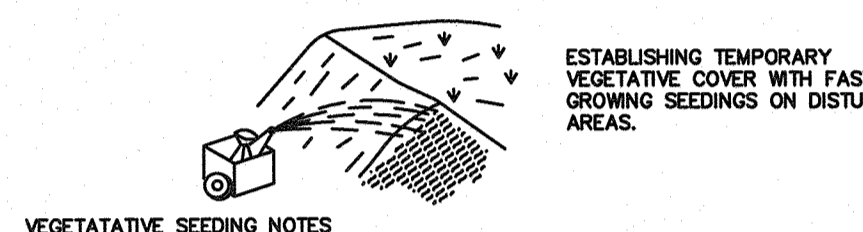
- 625-305-00 STANDARD MARKINGS FOR INTERSECTIONS
- 719-305-00 RECTANGULAR PRECAST SOLID WALL BOX
- 719-315-00 RECTANGULAR PRECAST RISER
- 719-330-00 RECTANGULAR JUNCTION BOX TOPS
- 719-605-00 END TREATMENT (STRAIGHT HEADWALL FOR CIRCULAR PIPE)
- 719-610-00 END TREATMENT (RCP BEVELED END)
- 720-150-01 CURB & GUTTER (CONCRETE)
- 720-150-02 CURB & GUTTER (CONCRETE)
- 720-150-03 CURB & GUTTER (CONCRETE)
- 815-001-01 TRANSITION CURBS AND 3" CURB & GUTTER TYPE A INLET STRUCTURE FILTERS
- 815-005-00 DITCH CHECK
- 815-205-00 SEDIMENT TUBE WITH DITCH APPLICATION
- 815-605-00 TEMPORARY SILT FENCE
- 815-605-00 FLOATING TURBIDITY CURTAIN

SEDIMENT AND EROSION CONTROL NOTES

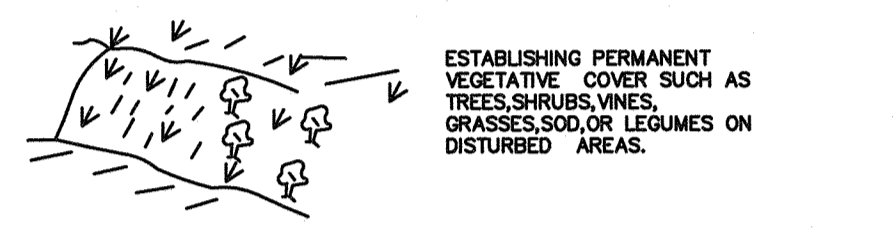
- IF NECESSARY, SLOPES WHICH EXCEED EIGHT (8) VERTICAL FEET SHOULD BE STABILIZED WITH SYNTHETIC OR VEGETATIVE MATS. IN ADDITION TO HYDROSEEDING, IT MAY BE NECESSARY TO INSTALL TEMPORARY SLOPE DRAINS DURING CONSTRUCTION. TEMPORARY BERMS MAY BE NEEDED UNTIL THE SLOPE IS BROUGHT TO GRADE.
- STABILIZATION MEASURES SHALL BE INITIATED AS SOON AS PRACTICABLE IN PORTIONS OF THE SITE WHERE CONSTRUCTION ACTIVITIES HAVE TEMPORARILY OR PERMANENTLY CEASED, BUT IN NO CASE MORE THAN FOURTEEN (14) DAYS AFTER WORK HAS CEASED, EXCEPT AS STATED BELOW.
 - WHERE STABILIZATION BY THE 14TH DAY IS PRECLUDED BY SNOW COVER OR FROZEN GROUND CONDITIONS STABILIZATION MEASURES MUST BE INITIATED AS SOON AS PRACTICABLE.
 - 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 IS INAPPROPRIATELY OR INCORRECTLY INSTALLED, THE PERMITTEE MUST ADDRESS THE NECESSARY REPLACEMENT OR MODIFICATION REQUIRED 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 SEDIMENT 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 AND/OR 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) IN CONSTRUCTION AREAS AND THE GENERATION OF DUST. THE CONTRACTOR SHALL DAILY REMOVE MUD/SOIL FROM PAVEMENT, AS MAY BE REQUIRED.
- 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 SEQ. AND S.C. 46-01-000.
- 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 60-FOOT BUFFER CAN'T 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 WATERS OF THE STATE.
- 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:1V OR GREATER) WHERE LAND-DISTURBING ACTIVITIES HAVE PERMANENTLY OR TEMPORARILY CEASED, AND WILL NOT RESUME FOR A PERIOD OF 7 CALENDAR DAYS.
- MINIMIZE SOIL COMPACTION AND, UNLESS INEVITABLE, PREVENT TOPSOIL LOSS.
- 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.
- MINIMIZE THE DISCHARGE OF POLLUTANTS FROM DEWATERING OF TRENCHES AND EXCAVATED AREAS. THESE DISCHARGES ARE TO BE ROUTED THROUGH APPROPRIATE BMPs (SEDIMENT BASIN, FILTER BAG, ETC.).
- 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, INSPECTIONS MUST BE CONDUCTED AT A MINIMUM OF AT LEAST ONE EVERY CALENDAR WEEK AND MUST BE CONDUCTED UNTIL FINAL STABILIZATION IS REACHED ON ALL AREAS OF THE CONSTRUCTION SITE.
- IF EXISTING BMPs NEED TO BE MODIFIED OR IF ADDITIONAL BMPs ARE NECESSARY TO COMPLY WITH THE REQUIREMENTS OF THIS PERMIT AND/OR SC'S WATER QUALITY STANDARDS, IMPLEMENTATION MUST BE COMPLETED BEFORE THE NEXT STORM EVENT WHENEVER PRACTICABLE. IF IMPLEMENTATION BEFORE THE NEXT STORM EVENT IS IMPRACTICABLE, THE SITUATION MUST BE DOCUMENTED 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 START OF CONSTRUCTION ACTIVITIES FOR NON-LINEAR PROJECTS THAT INVOLVE DISTURB TO ACRES OR MORE. THIS CONFERENCE MUST BE HELD ON-SITE UNLESS THE DEPARTMENT HAS APPROVED OTHERWISE.



TS TEMPORARY SEEDING

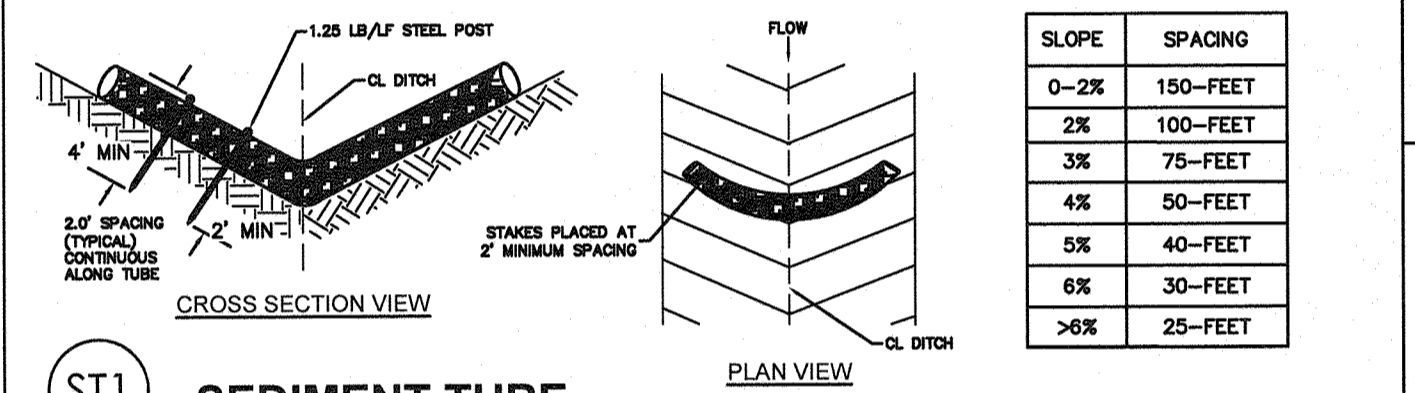


PS PERMANENT SEEDING



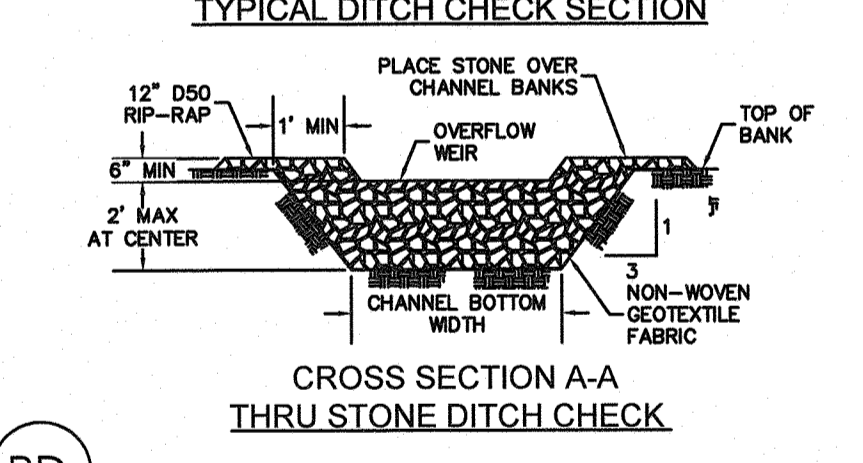
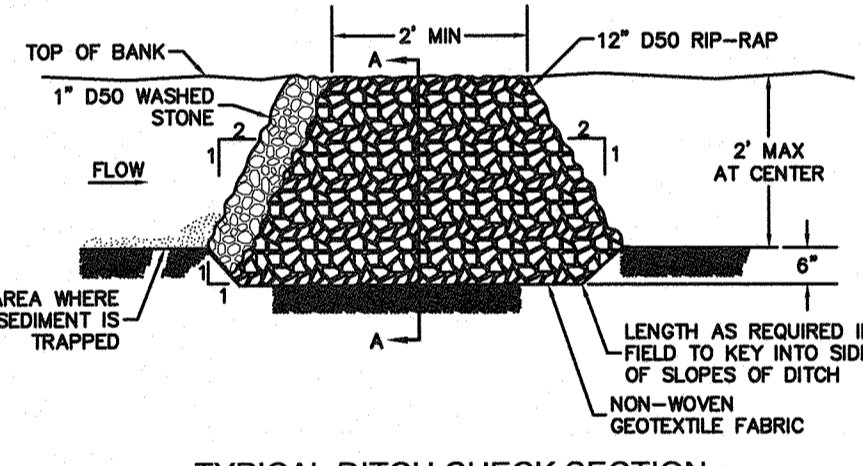
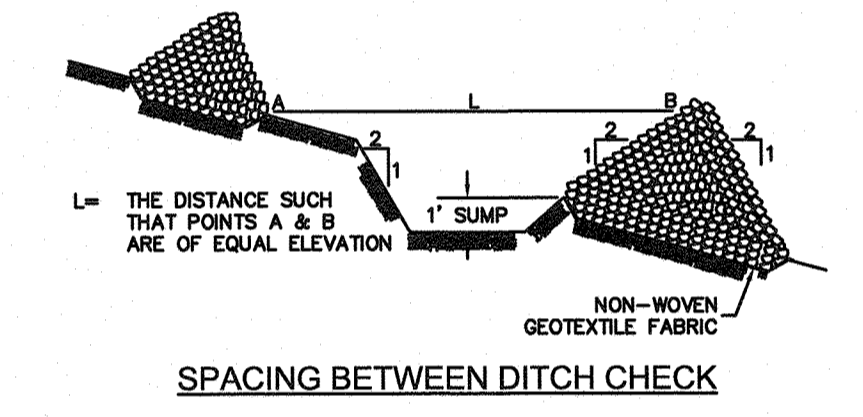
VEGETATIVE SEEDING NOTES

- TEMPORARY STABILIZATION IS REQUIRED WITHIN 14 DAYS AFTER CONSTRUCTION ACTIVITY IS COMPLETE UNLESS CONSTRUCTION ACTIVITY IS GOING TO RESUME WITHIN 21 DAYS.
- COVER SEEDED AREAS WITH AN APPROPRIATE MULCH TO PROVIDE PROTECTION FROM THE WEATHER.
- WHEN THE TEMPORARY VEGETATION DOES NOT GROW QUICKLY OR THICK ENOUGH TO PREVENT EROSION, RE-SEED AS SOON AS POSSIBLE.
- KEEP SEEDED AREAS ADEQUATELY MOIST. IRRIGATE THE SEEDED AREA IF NORMAL RAINFALL IS NOT ADEQUATE FOR THE GERMINATION AND GROWTH OF SEEDLINGS.
- WATER SEEDED AREAS AT CONTROLLED RATES THAT ARE LESS THAN THE RATE AT WHICH THE SOIL CAN ABSORB WATER TO PREVENT RUNOFF.
- SEED SELECTION IS BASED ON GEOGRAPHICAL LOCATION, SOIL TYPE AND THE SEASON OF THE YEAR IN WHICH THE PLANTING IS TO BE DONE.



ST1 SEDIMENT TUBE

- GENERAL NOTES**
- SEDIMENT TUBES MAY BE INSTALLED ALONG CONTOURS, IN DRAINAGE CONVEYANCE CHANNELS, OR AROUND INLETS TO HELP PREVENT OFF-SITE DISCHARGE OF SEDIMENT-LADEN WATER RUNOFF.
 - SEDIMENT TUBES ARE ELONGATED TUBES OF COMPACTED GEOTEXTILES, CURLED EXCELISOR WOOD, NATURAL COCONUT FIBER, OR HARDWOOD MULCH, STRAW, PINE NEEDLE, AND LEAF MULCH-FILLED SEDIMENT TUBES ARE NOT PERMITTED.
 - THE OUTER NETTING OF THE SEDIMENT TUBE SHOULD CONSIST OF SEAMLESS, HIGH-DENSITY POLYETHYLENE PHOTODEGRADABLE MATERIALS TREATED WITH ULTRAVIOLET STABILIZERS OR A SEAMLESS, HIGH-DENSITY POLYETHYLENE NON-DEGRADABLE MATERIAL.
 - SEDIMENT TUBES, WHEN USED AS CHECKS WITHIN CHANNELS, SHOULD RANGE BETWEEN 18-INCHES AND 24-INCHES DEPENDING ON CHANNEL DIMENSIONS. DIAMETERS OUTSIDE THIS RANGE MAY BE ALLOWED WHERE NECESSARY WHEN APPROVED.
 - CURLED EXCELISOR WOOD, OR NATURAL COCONUT PRODUCTS THAT ARE ROLLED UP TO CREATE A SEDIMENT TUBE ARE NOT ALLOWED.
 - SEDIMENT TUBES SHOULD BE STAKED USING STEEL POSTS (STANDARD 1/4\"/>
- INSPECTION & MAINTENANCE**
- THE KEY TO FUNCTIONAL SEDIMENT TUBES IS WEEKLY INSPECTIONS, ROUTINE MAINTENANCE, AND REGULAR SEDIMENT REMOVAL.
 - REGULAR INSPECTIONS OF SEDIMENT TUBES SHALL BE CONDUCTED ONCE EVERY CALENDAR WEEK AND, AS RECOMMENDED, WITHIN 24-HOURS AFTER EACH RAINFALL EVENT THAT PRODUCES 1/2-INCH OR MORE OF PRECIPITATION.
 - ATTENTION TO SEDIMENT ACCUMULATIONS IN FRONT OF THE SEDIMENT TUBE IS EXTREMELY IMPORTANT. ACCUMULATED SEDIMENT SHOULD BE CONTINUALLY MONITORED AND REMOVED WHEN NECESSARY.
 - REMOVE ACCUMULATED SEDIMENT WHEN IT REACHES 1/3 THE HEIGHT OF THE SEDIMENT TUBE.
 - REMOVED SEDIMENT SHALL BE PLACED IN STOCKPILE STORAGE AREAS OR SPREAD THINLY ACROSS DISTURBED AREA. STABILIZE THE REMOVED SEDIMENT AFTER IT IS RELOCATED.
 - IF EROSION CAUSES THE EDGES TO FALL TO A HEIGHT EQUAL TO OR BELOW THE HEIGHT OF THE SEDIMENT TUBE, REPAIRS SHOULD BE MADE IMMEDIATELY TO PREVENT RUNOFF FROM BYPASSING TUBE.
 - SEDIMENT TUBES SHOULD BE REMOVED AFTER THE CONTRIBUTING DRAINAGE AREA HAS BEEN COMPLETELY STABILIZED. PERMANENT VEGETATION SHOULD REPLACE AREAS FROM WHICH SEDIMENT TUBES HAVE BEEN REMOVED.



RD ROCK DITCH CHECK

- GENERAL NOTES**
- ROCK DITCH CHECKS SHOULD NOT BE PLACED IN WATERS OF THE STATE OR USGS BLUE-LINE STREAMS (UNLESS APPROVED BY FEDERAL AUTHORITIES).
 - ROCK DITCH CHECKS SHOULD BE INSTALLED IN STEEPLY SLOPED CHANNELS WHERE ADEQUATE VEGETATION CANNOT BE ESTABLISHED. THIS BMP MEASURE SHOULD ONLY BE USED IN SMALL OPEN CHANNELS.
 - A NON-WOVEN GEOTEXTILE FABRIC SHALL BE INSTALLED OVER THE SOIL SURFACE WHERE THE ROCK DITCH CHECK IS TO BE PLACED.
 - THE BODY OF THE ROCK DITCH CHECK SHALL BE COMPOSED OF 12\"/>
- INSPECTION AND MAINTENANCE**
- REGULAR INSPECTIONS OF ROCK DITCH CHECKS SHALL BE CONDUCTED ONCE EVERY CALENDAR WEEK AND, AS RECOMMENDED, WITHIN 24-HOURS AFTER EACH RAINFALL EVENT THAT PRODUCES 1/2-INCH OR MORE OF PRECIPITATION.
 - ATTENTION TO SEDIMENT ACCUMULATIONS IN FRONT OF THE ROCK DITCH CHECK IS EXTREMELY IMPORTANT. ACCUMULATED SEDIMENT SHOULD BE CONTINUALLY MONITORED AND REMOVED WHEN NECESSARY.
 - REMOVE ACCUMULATED SEDIMENT WHEN IT REACHES 1/3 THE HEIGHT OF THE ROCK DITCH CHECK.
 - REMOVED SEDIMENT SHALL BE PLACED IN STOCKPILE STORAGE AREAS OR SPREAD THINLY ACROSS DISTURBED AREA. STABILIZE THE REMOVED SEDIMENT AFTER IT IS RELOCATED.
 - INSPECT ROCK DITCH CHECKS' EDGES FOR EROSION AND EVIDENCE OF RUNOFF BYPASSING THE INSTALLED CHECK. IF EVIDENT REPAIR PROMPTLY AS NECESSARY TO PREVENT EROSION AND BYPASSING.
 - IN THE CASE OF GRASS-LINED DITCHES, CHANNELS, AND SWALES, ROCK DITCH CHECKS SHOULD BE REMOVED WHEN THE GRASS HAS MATURED SUFFICIENTLY TO PROTECT THE DITCH OR SWALE UNLESS THE SLOPE OF THE SWALE IS GREATER THAN 4%.
 - AFTER CONSTRUCTION IS COMPLETED AND FINAL STABILIZATION IS REACHED, THE ENTIRETY OF THE ROCK DITCH CHECK SHOULD BE REMOVED IF VEGETATION WILL BE USED FOR PERMANENT EROSION CONTROL MEASURES. THE AREA BENEATH THE REMOVED ROCK DITCH CHECK MUST BE ADDRESSED WITH PERMANENT STABILIZATION MEASURES.

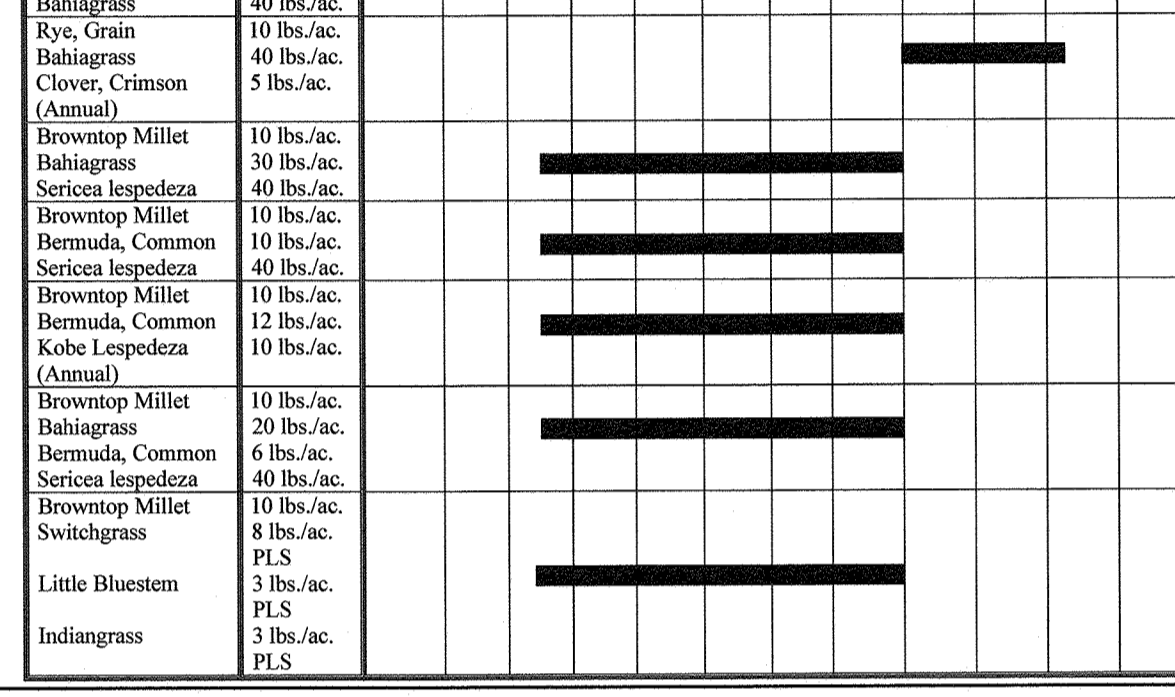
Temporary Seeding - Coastal

Species	Lbs/Ac	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
Sandy, Droughty Sites													
Browntop Millet	40 lbs./ac.												
Rye, Grain	56 lbs./ac.												
Ryegrass	50 lbs./ac.												
Well drained, clayey/loamey Sites													
Browntop Millet or Japanese Millet	40 lbs./ac.												
Rye, Grain or Oats	56 lbs./ac.												
Ryegrass	75 lbs./ac.												

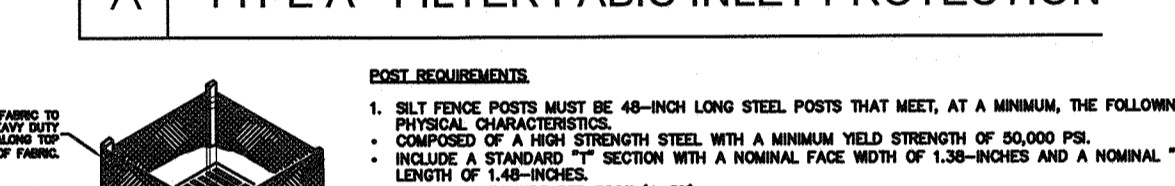
Permanent Seeding - Coastal

Species	Lbs/Ac	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
Sandy, Droughty Sites													
Browntop Millet	10 lbs./ac.												
Bahiagrass	40 lbs./ac.												
Browntop Millet	10 lbs./ac.												
Bahiagrass	30 lbs./ac.												
Sericea Lespedeza	40 lbs./ac.												
Browntop Millet	10 lbs./ac.												
Atlantic Coastal Pansgrass	15 lbs./ac. PLS												
Browntop Millet	10 lbs./ac.												
Switchgrass	8 lbs./ac.												
(Annual)	PLS												
Little Bluestem	4 lbs./ac.												
Sericea Lespedeza	20 lbs./ac.												
Browntop Millet	10 lbs./ac.												
Weeping Lovegrass	8 lbs./ac.												
Well drained, clayey/loamey Sites													
Browntop Millet	10 lbs./ac.												
Bahiagrass	40 lbs./ac.												
Rye, Grain	10 lbs./ac.												
Bahiagrass	40 lbs./ac.												
Clover, Crimson	5 lbs./ac.												
Browntop Millet	10 lbs./ac.												
Bahiagrass	30 lbs./ac.												
Sericea Lespedeza	40 lbs./ac.												
Browntop Millet	10 lbs./ac.												
Bermuda, Common	10 lbs./ac.												
Kobe Lespedeza (Annual)	10 lbs./ac.												
Browntop Millet	10 lbs./ac.												
Bahiagrass	20 lbs./ac.												
Bermuda, Common	6 lbs./ac.												
Sericea Lespedeza	40 lbs./ac.												
Browntop Millet	10 lbs./ac.												
Switchgrass	8 lbs./ac.												
PLS	3 lbs./ac.												
PLS	3 lbs./ac.												
Indiangrass	3 lbs./ac.												

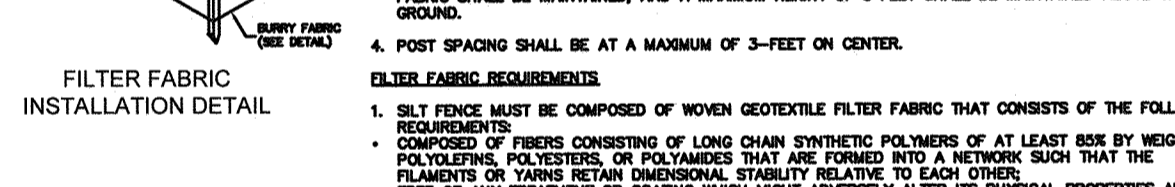
A TYPE A - FILTER FABRIC INLET PROTECTION



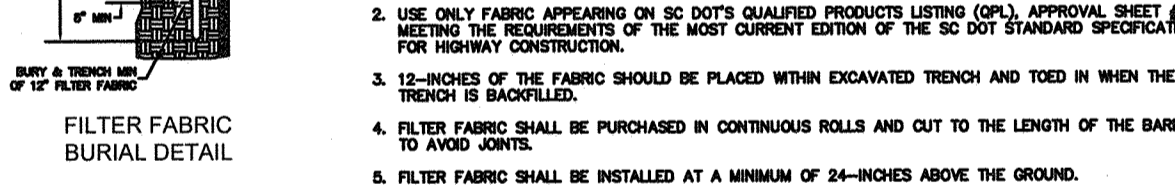
ST RIP-RAP OUTLET PROTECTION



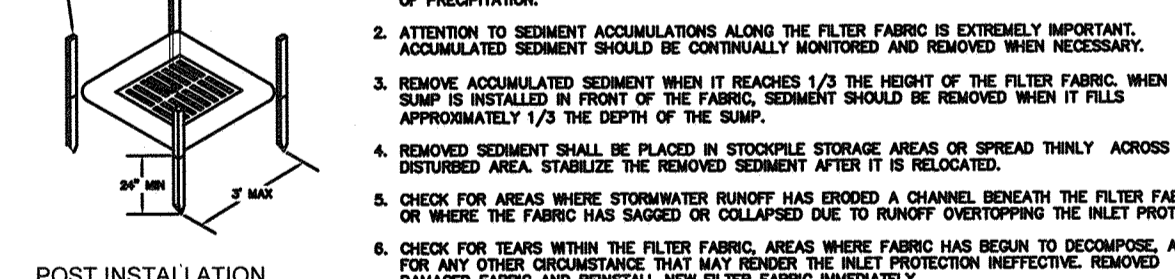
RP DUMPED RIP-RAP



TRM TURF REINFORCEMENT MAT



TYPICAL STORM SEWER PIPE BEDDING DETAIL



4			
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2			
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REV. NO.	BY	DATE	DESCRIPTION OF REVISION
	M. HAMMOND	07/11/2019	DESIGNED BY: M. HAMMOND
	L. WILEN	12/17/2019	DRAWN BY: L. WILEN
	J. FRALIX	--/--/--	CHECKED BY: J. FRALIX

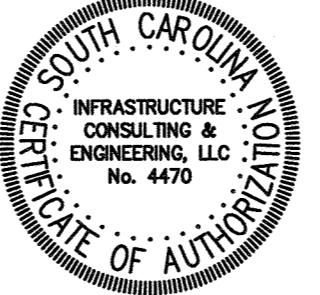
STATE	COUNTY	FILE NO.	PROJECT NO.	ROUTE NO.	SHEET NO.
SC	BEAUFORT				1 OF 1

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REV. NO.	BY	DATE	DESCRIPTION OF REVISION
DESIGNED BY:	M. HAMMOND	DATE	07/11/2019
DRAWN BY:	L. WILEN	DATE	12/17/2019
CHECKED BY:	J. FRALIX	DATE	==/--/--

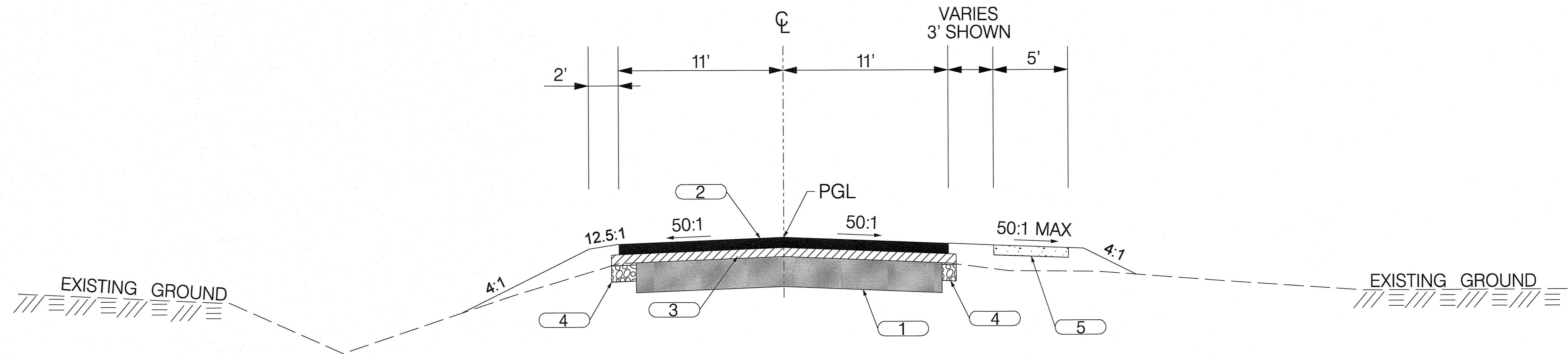
BEAUFORT COUNTY
 CITY OF BEAUFORT

MOSSY OAKS BASIN 1 – WEST ROYAL OAKS
 PROJECT LIMITS SHEET

SHEET 1 OF 1 SCALE: 1"=100'

STATE	COUNTY	FILE NO.	PROJECT NO.	ROUTE NO.	SHEET NO.
SC	BEAUFORT			S-7-159	9

TYPICAL SECTION



USE THIS SECTION ON
 BATTERY CREEK ROAD (S-5-179)
 STA. 12+00.00 TO STA. 16+50.00

1		EXISTING PAVEMENT - RETAIN
2		HOT MIX ASPHALT SURFACE COURSE TYPE C (150 PSY)
3		HOT MIX ASPHALT INTERMEDIATE COURSE TYPE B (200 PSY)
4		HOT MIX ASPHALT BASE COURSE TYPE B (400 PSY)
5		CONCRETE SIDEWALK (4" UNIFORM)

RTE. S-7-159		DESIGN SPEED
MPH	FROM STA.	TO STA.
30	12+00.00	16+50.00
EXCEPTIONS TO DESIGN SPEED		
FUNCTIONAL CLASSIFICATION		
URBAN COLLECTOR		

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REV. NO.	BY	DATE	DESCRIPTION OF REVISION
DESIGNED BY:	RNT	DATE 08/22/2019	
DRAWN BY:	RNT	DATE 08/22/2019	
CHECKED BY:	PMV	DATE 08/22/2019	

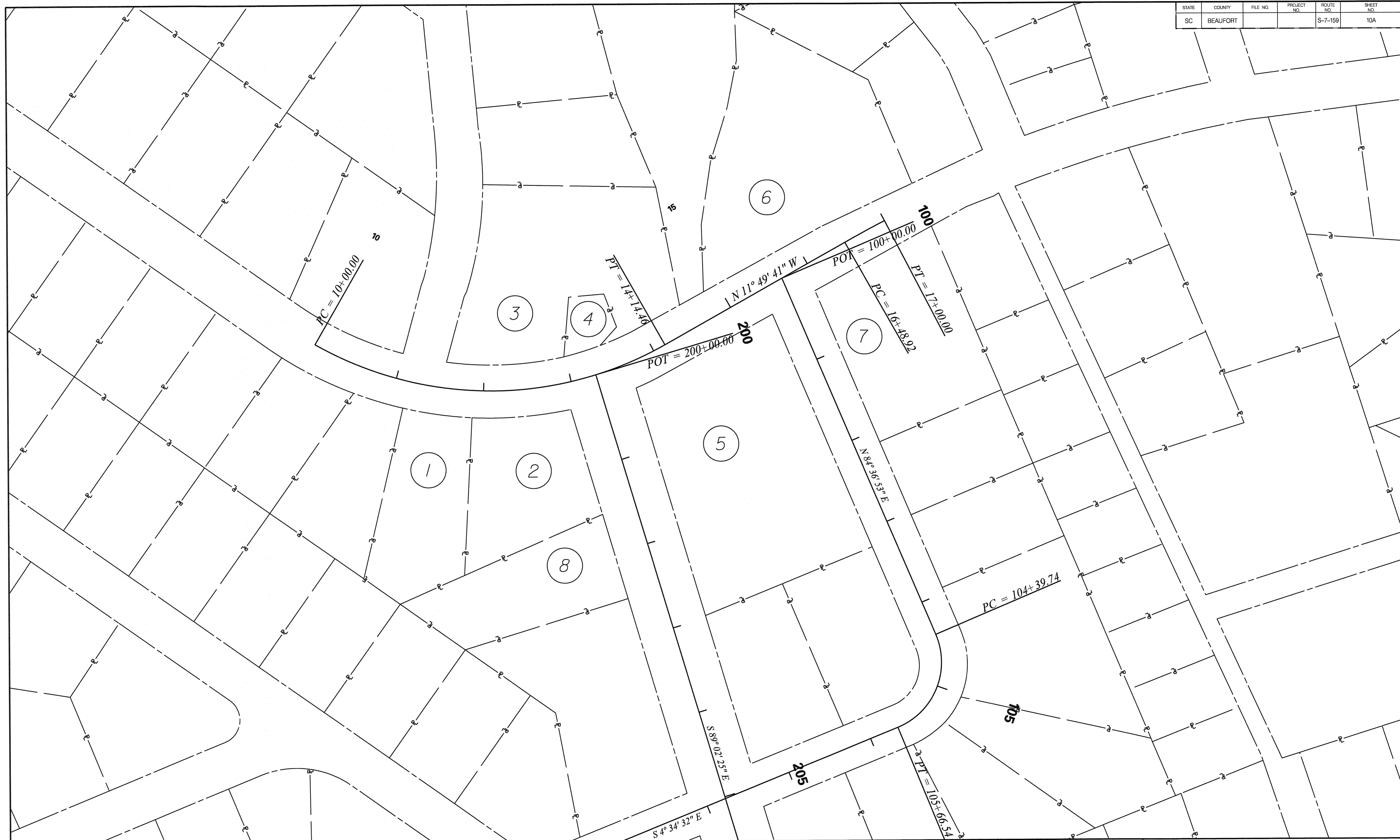
BEAUFORT COUNTY
 CITY OF BEAUFORT

BATTERY CREEK ROAD (S-7-159)
 BASIN 1
 TYPICAL SECTION SHEET

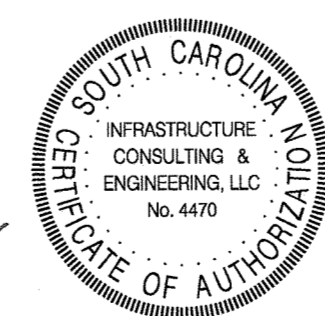
SHEET 9

SCALE: NTS

STATE	COUNTY	FILE NO.	PROJECT NO.	ROUTE NO.	SHEET NO.
SC	BEAUFORT			S-7-159	10A



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REV. NO.	BY	DATE	DESCRIPTION OF REVISION
DESIGNED BY:	B.J.L.	DATE 08/22/2019	
DRAWN BY:	B.J.L.	DATE 08/22/2019	
CHECKED BY:	PMV	DATE 08/22/2019	

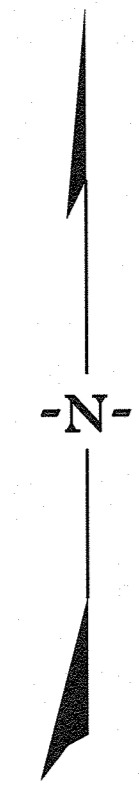
BEAUFORT COUNTY
CITY OF BEAUFORT

BATTERY CREEK ROAD (S-7-159)
BASIN 1
PROPERTY STRIP MAP

SHEET 10A

SCALE: 1" = 50'

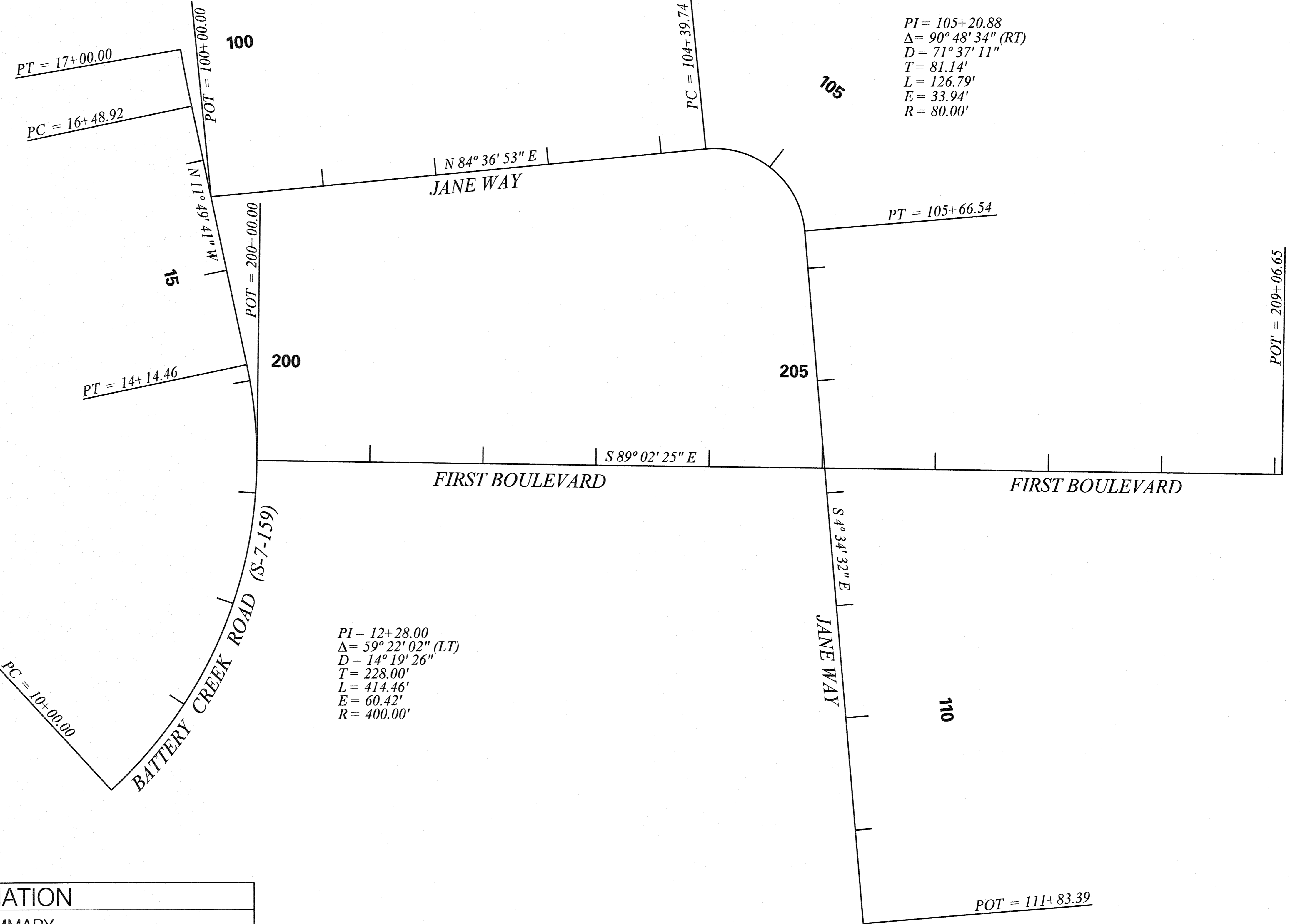
STATE	COUNTY	FILE NO.	PROJECT NO.	ROUTE NO.	SHEET NO.
SC	BEAUFORT			S-7-159	11



$PI = 16+74.46$
 $\Delta = 2^{\circ}05'25'' (RT)$
 $D = 4^{\circ}05'33''$
 $T = 25.54'$
 $L = 51.08'$
 $E = 0.23'$
 $R = 1,400.00'$

$PI = 105+20.88$
 $\Delta = 90^{\circ}48'34'' (RT)$
 $D = 71^{\circ}37'11''$
 $T = 81.14'$
 $L = 126.79'$
 $E = 33.94'$
 $R = 80.00'$

$PI = 12+28.00$
 $\Delta = 59^{\circ}22'02'' (LT)$
 $D = 14^{\circ}19'26''$
 $T = 228.00'$
 $L = 414.46'$
 $E = 60.42'$
 $R = 400.00'$

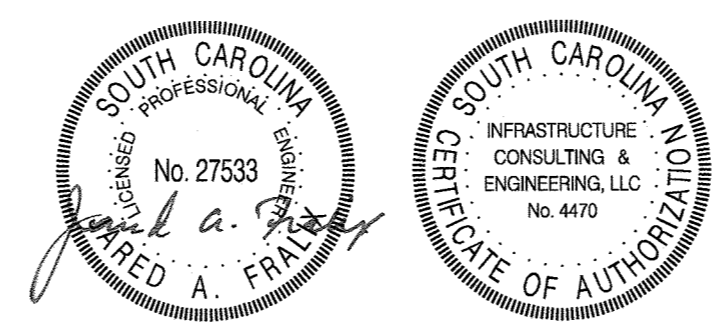


GENERAL INFORMATION

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

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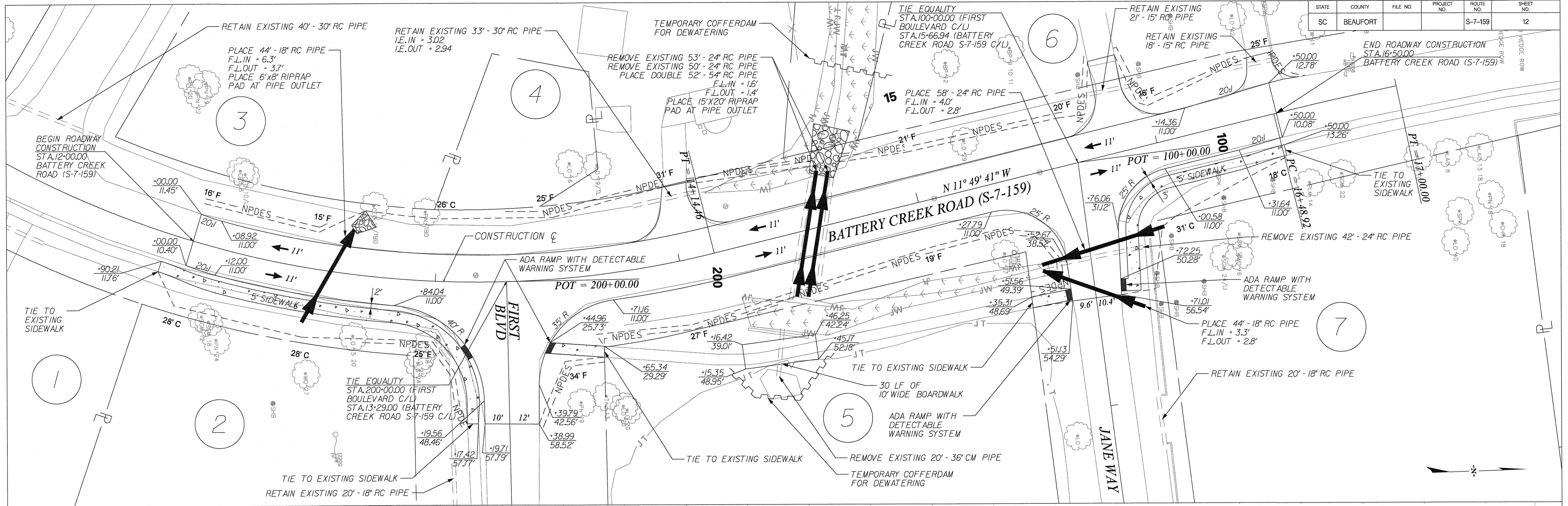


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REV. NO.	BY	DATE	DESCRIPTION OF REVISION
DESIGNED BY:	BJL	DATE 08/22/2019	
DRAWN BY:	BJL	DATE 08/22/2019	
CHECKED BY:	PMV	DATE 08/22/2019	

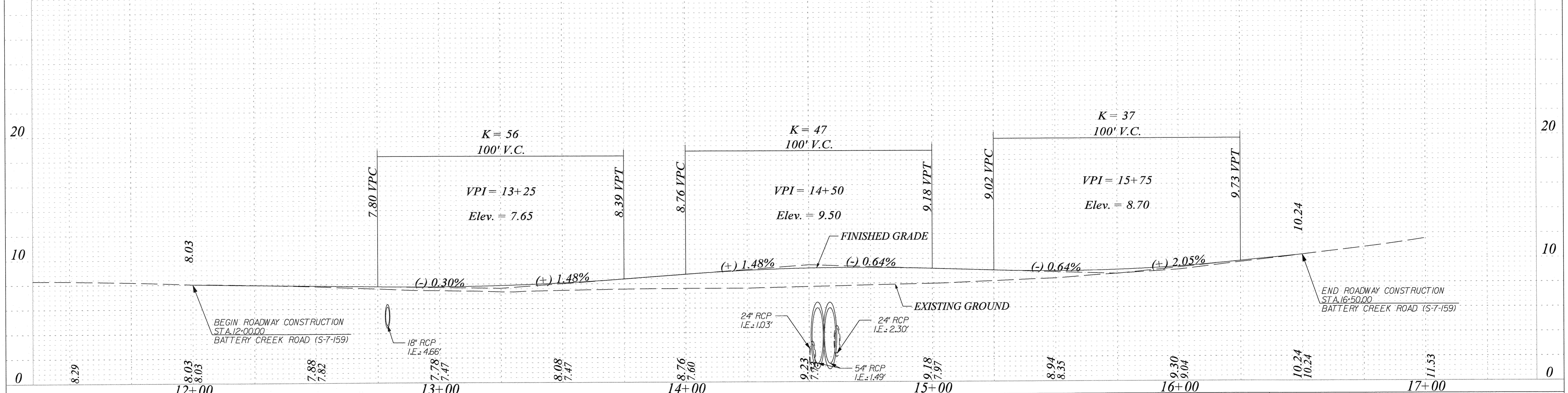
BEAUFORT COUNTY
 CITY OF BEAUFORT

 BATTERY CREEK ROAD (S-7-159)
 BASIN 1
 REFERENCE DATA SHEET

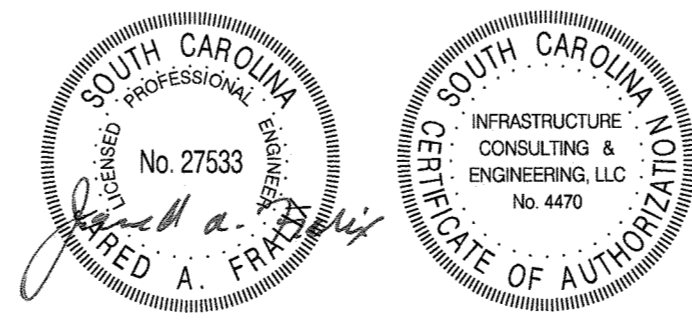
 SHEET 11 SCALE: 1" = 50'



BATTERY CREEK ROAD (S-7-159)



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REV. NO.	BY	DATE	DESCRIPTION OF REVISION
DESIGNED BY:	RNT	DATE 08/22/2019	
DRAWN BY:	RNT	DATE 08/22/2019	
CHECKED BY:	PMV	DATE 08/22/2019	

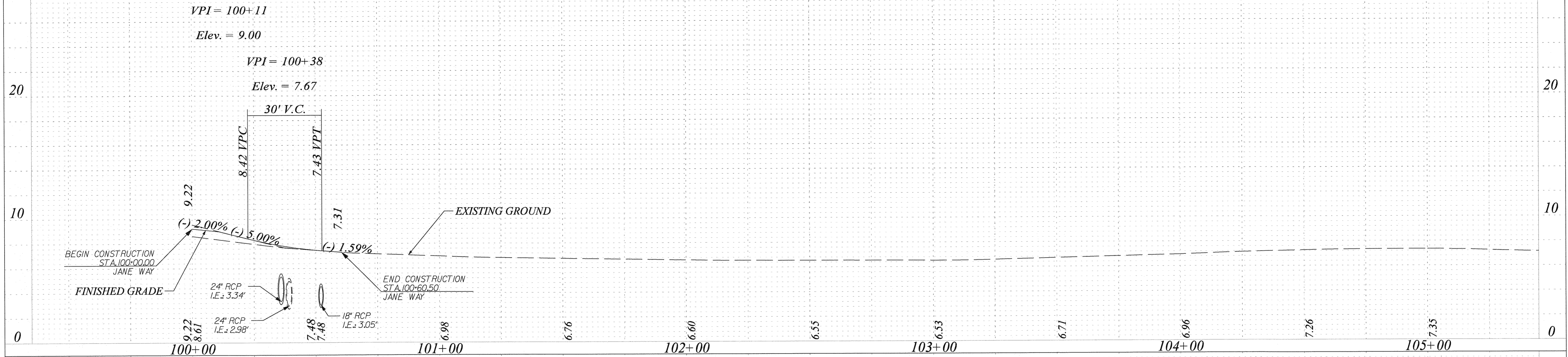
BEAUFORT COUNTY
CITY OF BEAUFORT

BATTERY CREEK ROAD (S-7-159)
BASIN 1
PLAN AND PROFILE SHEET

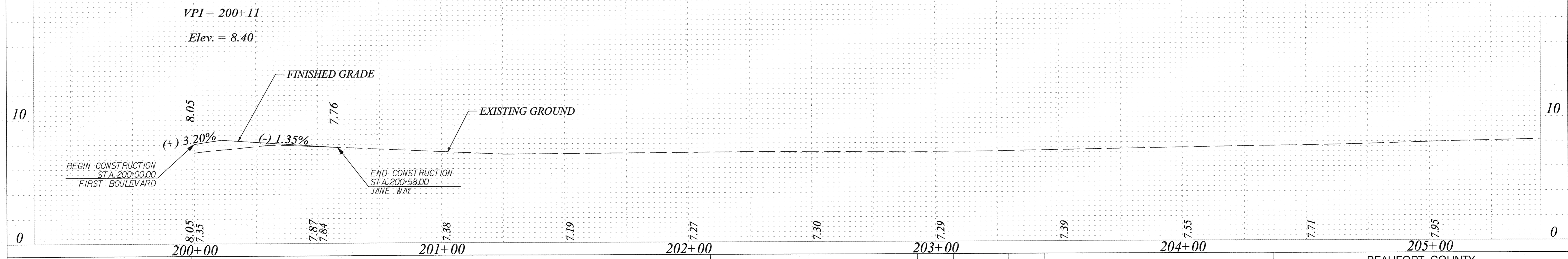
SHEET 12 SCALE: 1" = 20'

STATE	COUNTY	FILE NO.	PROJECT NO.	ROUTE NO.	SHEET NO.
SC	BEAUFORT			S-7-159	13

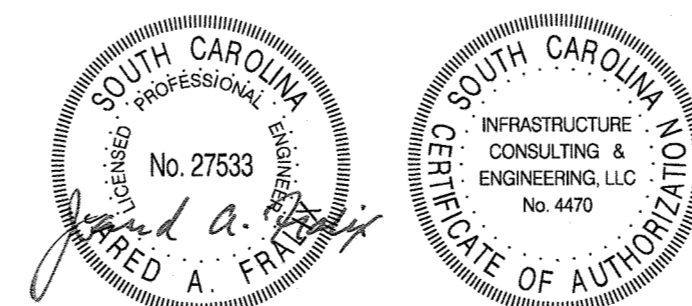
JANE WAY



FIRST BOULEVARD



IE INFRASTRUCTURE CONSULTING & ENGINEERING



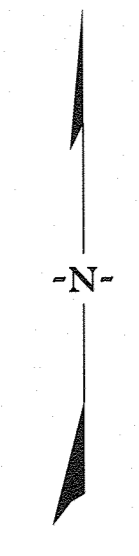
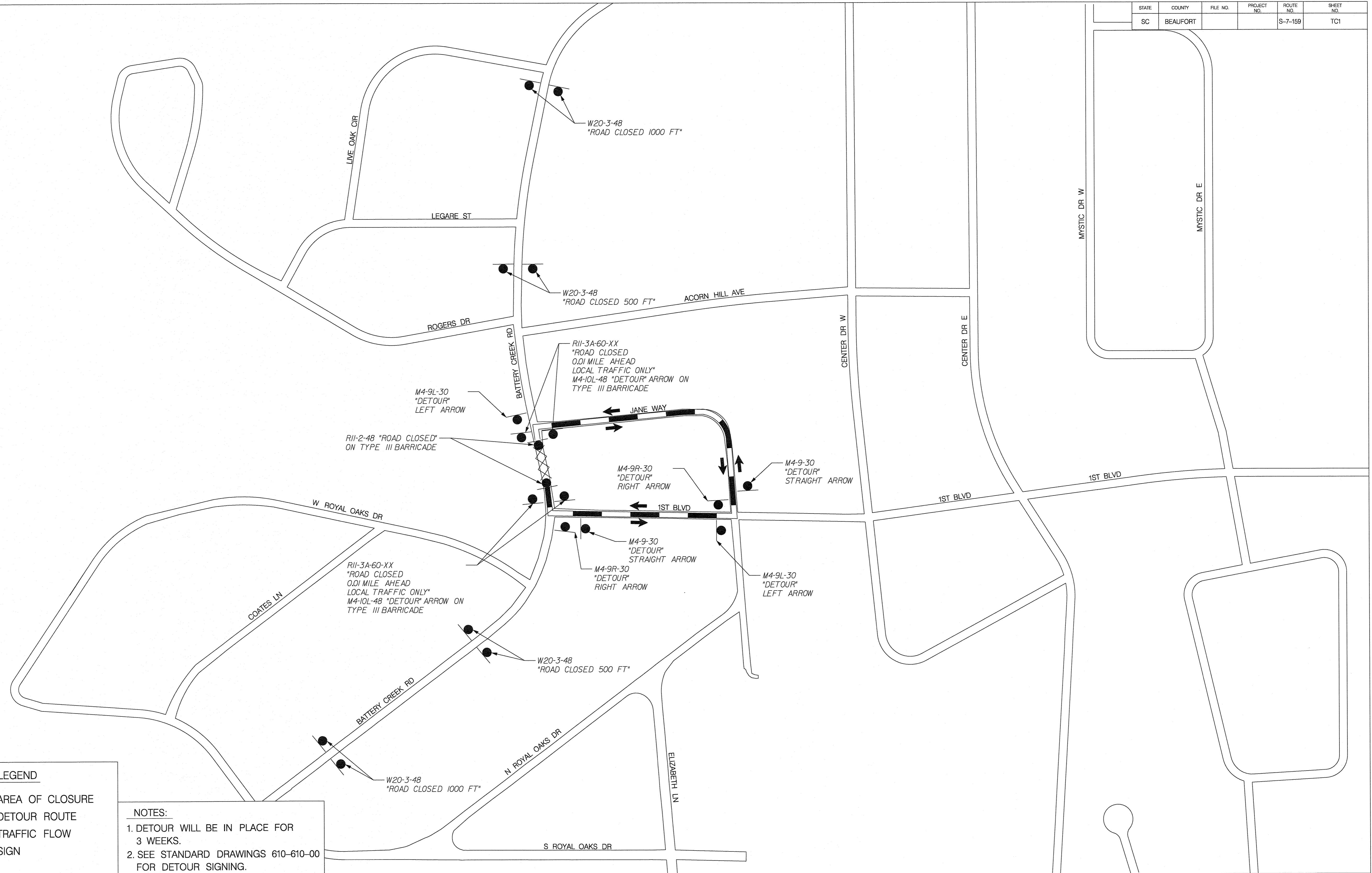
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REV. NO.	BY	DATE	DESCRIPTION OF REVISION
DESIGNED BY:	RNT	DATE 08/22/2019	
DRAWN BY:	RNT	DATE 08/22/2019	
CHECKED BY:	PMV	DATE 08/22/2019	

BEAUFORT COUNTY
CITY OF BEAUFORT

BATTERY CREEK ROAD (S-7-159)
BASIN 1
PLAN AND PROFILE SHEET

SHEET 13 SCALE: 1" = 20'

STATE	COUNTY	FILE NO.	PROJECT NO.	ROUTE NO.	SHEET NO.
SC	BEAUFORT			S-7-159	TC1



LEGEND

XXXXX AREA OF CLOSURE

— DETOUR ROUTE

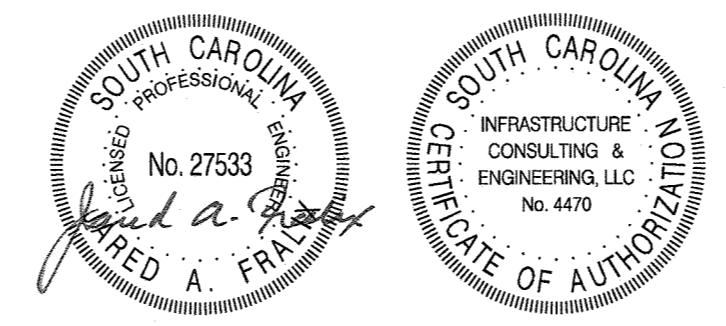
→ TRAFFIC FLOW

● SIGN

NOTES:

1. DETOUR WILL BE IN PLACE FOR 3 WEEKS.
2. SEE STANDARD DRAWINGS 610-610-00 FOR DETOUR SIGNING.

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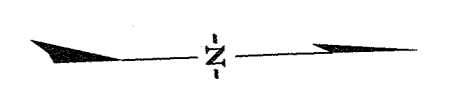
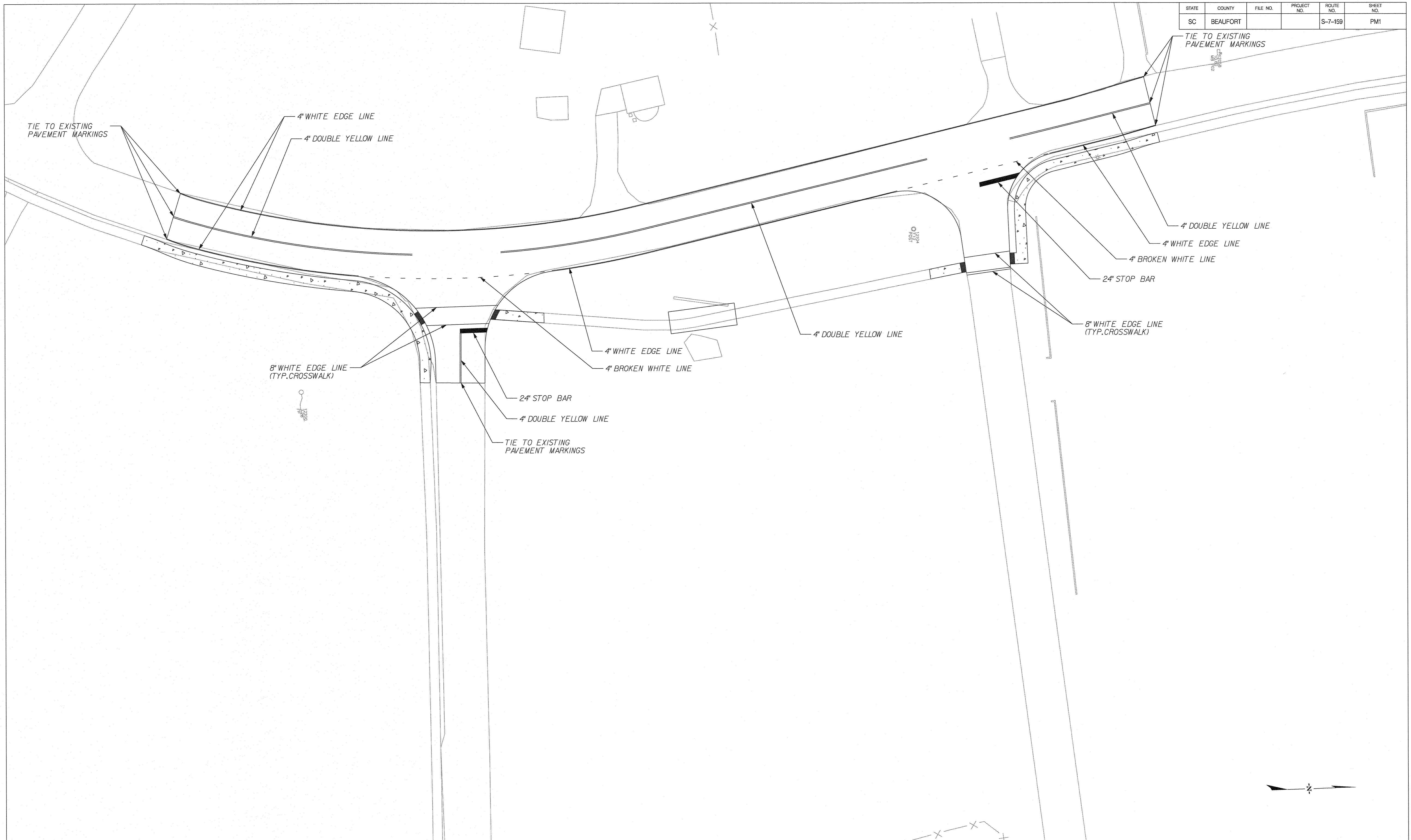


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REV. NO.	BY	DATE	DESCRIPTION OF REVISION
DESIGNED BY:	RNT	DATE	-
DRAWN BY:	RNT	DATE	-
CHECKED BY:	PMV	DATE	-

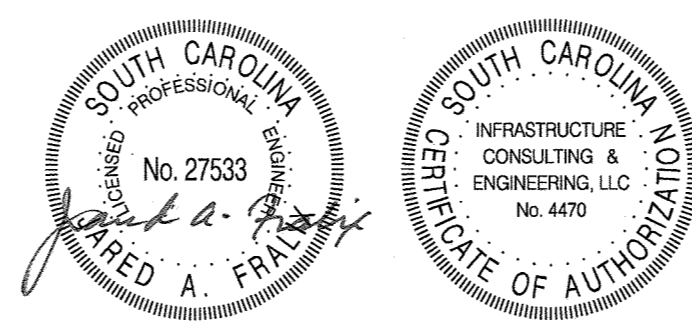
BEAUFORT COUNTY
CITY OF BEAUFORT

MOSSY OAKS
BATTERY CREEK ROAD
DETOUR PLAN SHEET

STATE	COUNTY	FILE NO.	PROJECT NO.	ROUTE NO.	SHEET NO.
SC	BEAUFORT			S-7-159	PM1



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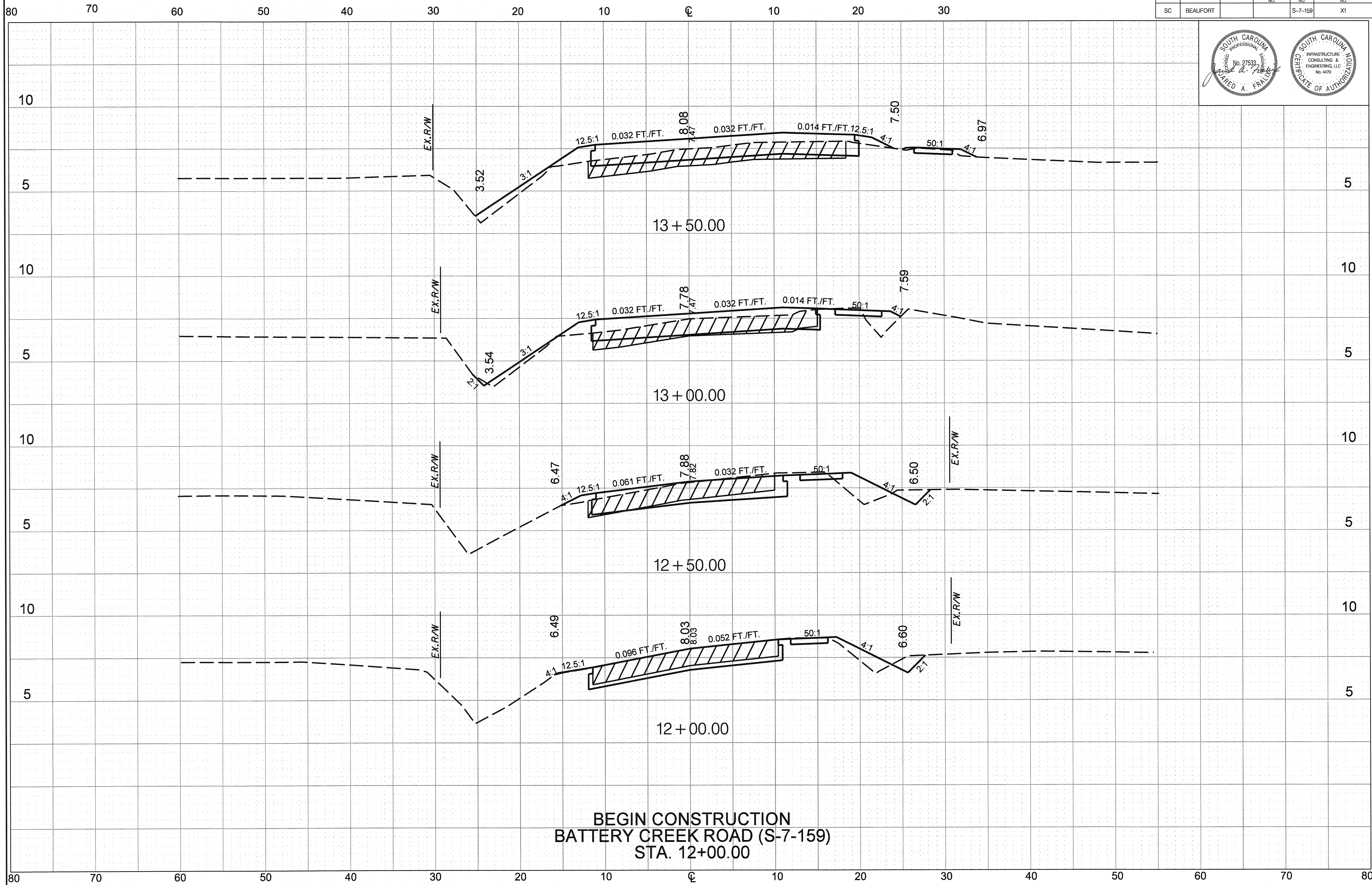
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REV. NO.	BY	DATE	DESCRIPTION OF REVISION
DESIGNED BY:	BJL	DATE 08/22/2019	
DRAWN BY:	BJL	DATE 08/22/2019	
CHECKED BY:	PMV	DATE 08/22/2019	

BEAUFORT COUNTY
CITY OF BEAUFORT

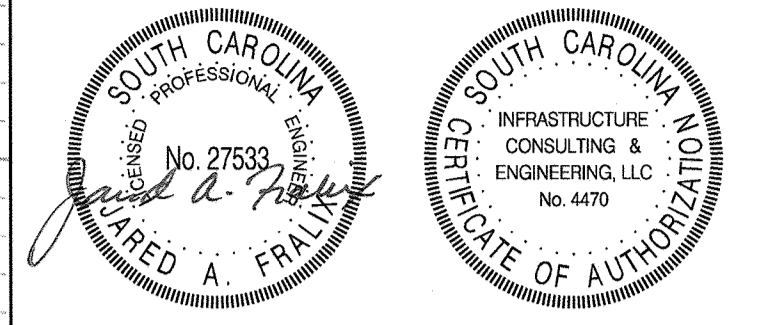
BATTERY CREEK ROAD (S-7-159)
BASIN 1
PAVEMENT MARKING SHEET

SHEET PM1

SCALE: 1" = 20'



STATE	COUNTY	FILE NO.	PROJECT NO.	ROUTE NO.	SHEET NO.
SC	BEAUFORT			S-7-159	X1



BEGIN CONSTRUCTION
 BATTERY CREEK ROAD (S-7-159)
 STA. 12+00.00

STATE	COUNTY	FILE NO.	PROJECT NO.	ROUTE NO.	SHEET NO.
SC	BEAUFORT			S-7-159	X2

**END CONSTRUCTION
BATTERY CREEK ROAD (S-7-159)
STA. 16+50.00**

