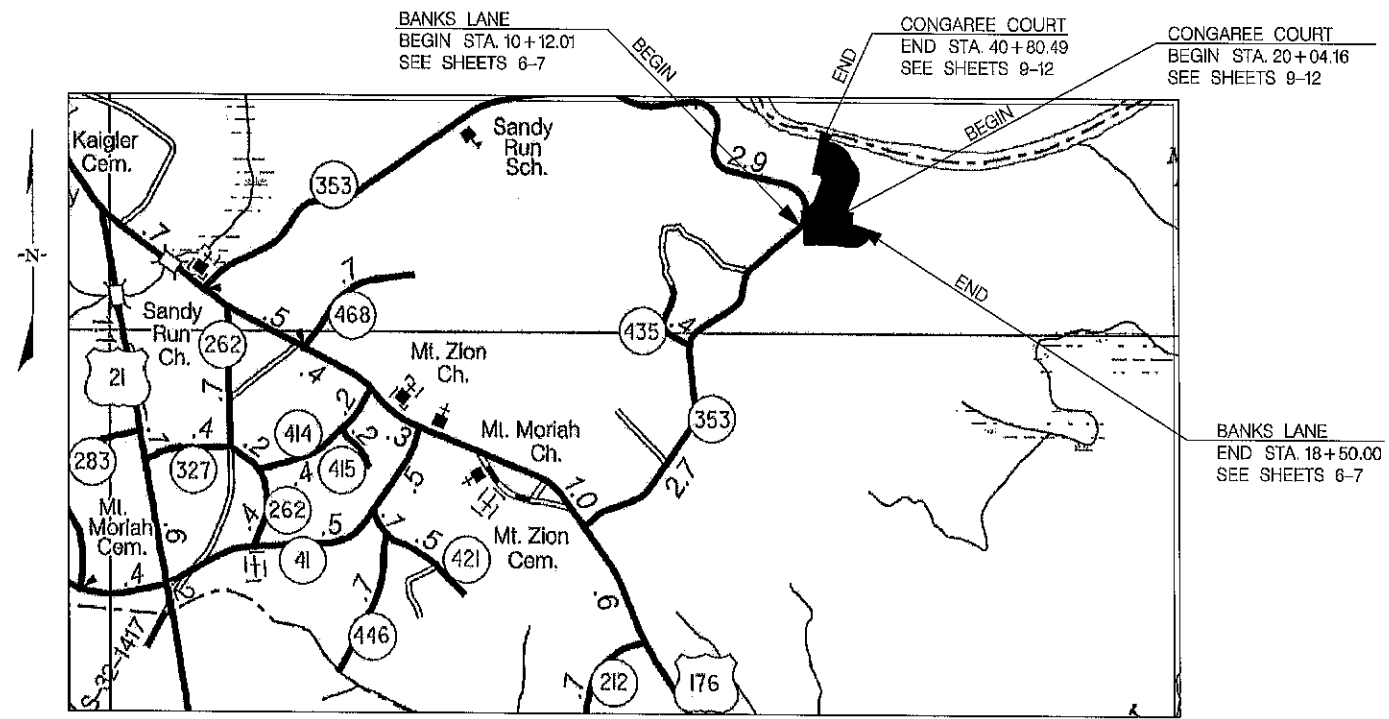




SHEET NO.	TOTAL SHEETS
1	33

SHEET NO	DESCRIPTION	SHEET SUB-TOTALS
1	TITLE SHEET	1
2	SUMMARY OF ESTIMATED QUANTITIES	1
3	TYPICAL SECTIONS	1
4	PROPERTY STRIP MAP	1
5	GENERAL CONSTRUCTION NOTES	1
5A-5B	REFERENCE DATA SHEET	2
6-11	PLAN AND PROFILE SHEETS	6
12-16	DETAIL SHEETS	5
EC1	EROSION CONTROL GENERAL NOTES	1
△ UC1-UC5	UTILITY CONSTRUCTION SHEETS	5
X1-X9	CROSS SECTIONS	9
TOTAL		33 △

# PROPOSED PLANS FOR CALHOUN COUNTY CTC DIRT ROAD PAVING 2017 BANKS LANE



LAYOUT  
NOT TO SCALE  
CALHOUN COUNTY

**APPROVED FOR CONSTRUCTION:**

\_\_\_\_\_ Date \_\_\_\_\_

CALHOUN COUNTY ADMINISTRATOR

NPDES PERMIT INFORMATION	
DISTURBED AREA =	2.5 ACRES
PERMITTED AREA =	4.5 ACRES

APPROXIMATE LOCATION OF ROADWAY IS	
BEGIN	
LATITUDE	33° 48' 17.13" N
LONGITUDE	80° 54' 46.86" W
END	
LATITUDE	33° 48' 16.70" N
LONGITUDE	80° 54' 38.74" W

Hydraulic and NPDES Design  
provided by:  
**INFRASTRUCTURE  
CONSULTING & ENGINEERING**  
Designs may be obtained from  
Calhoun County

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


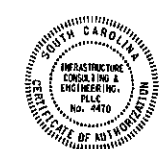
	BANKS LN	CONGAREE CT	TOTAL	
NET LENGTH OF ROADWAY	0.159	0.393	0.552	MILES
NET LENGTH OF SIDEWALK	-	-	-	MILES
NET LENGTH OF PROJECT	0.159	0.393	0.552	MILES
LENGTH OF EXCEPTIONS	-	-	-	MILES
GROSS LENGTH OF PROJECT	0.159	0.393	0.552	MILES

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 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.

CONSULTING ENGINEERING FIRM  
**INFRASTRUCTURE  
CONSULTING & ENGINEERING**  
CONSULTING ENGINEERS  
1081 BRIMMAGE CIRCLE  
COLUMBIA, SOUTH CAROLINA 29210

ENGINEER OF RECORD

FOR CONSTRUCTION: \_\_\_\_\_ DATE \_\_\_\_\_

REV. NO.	BY	DATE	DESCRIPTION OF REVISION
7			
6			
5			
4			
3			
2			
△	ADN	3-5-19	UC SHEETS ADDED, SHEET TOTAL CHANGED.

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FED. RD. DIST. NO.	STATE	COUNTY	ROAD ROUTE NO.	PROJECT ID NO.	SHEET NO.
3	S.C.	CALHOUN	BANKS LANE		2

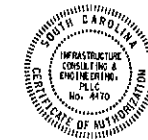
**SUMMARY OF ESTIMATED QUANTITIES**

BANKS LANE ROADWAY QUANTITIES			
SECTION	ITEM	QUANTITY	UNIT
1031000	MOBILIZATION	NEC	LS
1050800	CONSTRUCTION STAKES, LINES & GRADES	1	EA
1071000	TRAFFIC CONTROL	NEC	LS
2012000	CLEARING & GRUBBING WITHIN ROADWAY	NEC	LS
2023000	REMOVAL & DISPOSAL OF EXISTING PAVEMENT	258	SY
2031000	UNCLASSIFIED EXCAVATION	932	CY
2033000	BORROW EXCAVATION	5,655	CY
2081001	FINE GRADING	9,439	SY
3050106	GRADED AGGREGATE BASE COURSE (6" UNIFORM)	9,006	SY
4010005	PRIME COAT	2,432	GAL
4011004	LIQUID ASPHALT BINDER PG64-22	46	TON
△ 4030340	HOT MIX ASPHALT SURFACE COURSE - TYPE C	761	TON
6020005	PERMANENT CONSTRUCTION SIGNS (GROUND MOUNTED)	48	SF
6051100	PERMANENT YELLOW PAVEMENT MARKERS BI-DIR. - 4"X4" PERM. YEL.	3	EA
6241025	24" WHITE SOLID LINES (STOP/DIAG LINES)-PERM.PVMT.MARKING	30	LF
6271074	4" YELLOW SOLID LINES(PVT.EDGE LINES) THERMO-90 MIL.	100	LF
6510105	FLAT SHEET, TYPE III, FIXED SZ. & MSG. SIGN	11.25	SF
6531210	U-SECTION POST FOR SIGN SUPPORTS - 3P	14	LF
7143618	18" SMOOTH WALL PIPE	1,752	LF
7143624	24" SMOOTH WALL PIPE	104	LF

BANKS LANE ROADWAY QUANTITIES			
SECTION	ITEM	QUANTITY	UNIT
7191205	CATCH BASIN -TYPE 9	14	EA
7192105	MANHOLE	7	EA
8041020	RIP-RAP (CLASS B)	90	TON
8048205	GEOTEXTILE FOR EROSION CONTROL UNDER RIPRAP(CLASS 2)TYPE B	106	SY
8051155	MT2 LEADING END TREATMENT TL-2	3	EA
8051710	MB TRAILING END TREATMENT	5	EA
8052100	MGS3 GUARDRAIL	875	LF
8052150	MGS3CS GR COMPRESSED SHOULDER	113	LF
8081100	ADJUST WATER SERVICE LINE		EA
8100100	PERMANENT COVER	1.344	ACRE
8100200	TEMPORARY COVER	0.672	ACRE
8151101	TURF REINFORCEMENT MATTING (TRM) TYPE 1	0.293	MSY
8151110	TEMPORARY EROSION CONTROL BLANKET (ECB)	2.435	MSY
8152004	INLET STRUCTURE FILTER - TYPE F (WEIGHTED)	168	LF
8152006	INLET STRUCTURE FILTER- TYPE F (NON-WEIGHTED)	168	LF
8152007	SEDIMENT TUBES FOR DITCH CHECKS	216	LF
8153000	SILT FENCE	2,615	LF
8153090	REPLACE/REPAIR SILT FENCE	265	LF
8154050	REMOVAL OF SILT RETAINED BY SILT FENCE	655	LF
△ 9000001	3" SDR 21 PVC PIPE	2,490	LF
△ 9000002	1" HDPE TUBING	294	LF
△ 9000003	3" TEE	1	EA
△ 9000004	3" 90 DEGREE BEND/FITTING	2	EA
△ 9000005	3" 45 DEGREE BEND/FITTING	3	EA
△ 9000006	3" 22.5 DEGREE BEND/FITTING	7	EA
△ 9000007	3" 11.25 DEGREE BEND/FITTING	3	EA
△ 9000008	3" MECHANICAL JOINT RESTRAINTS	21	EA
△ 9000009	3" BELL JOINT RESTRAINTS	36	EA
△ 9000010	3" GATE VALVES	3	EA
△ 9000011	VALVE BOXES	3	EA
△ 9000012	3" YARD HYDRANT	1	EA
△ 9000013	1" STAINLESS STEEL TAPPING SADDLE	8	EA

#users  
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 3/16/2019

**INFRASTRUCTURE CONSULTING & ENGINEERING**  
 CONSULTING ENGINEERS  
 1021 BRIMGATE CIRCLE  
 COLUMBIA, SOUTH CAROLINA 29210



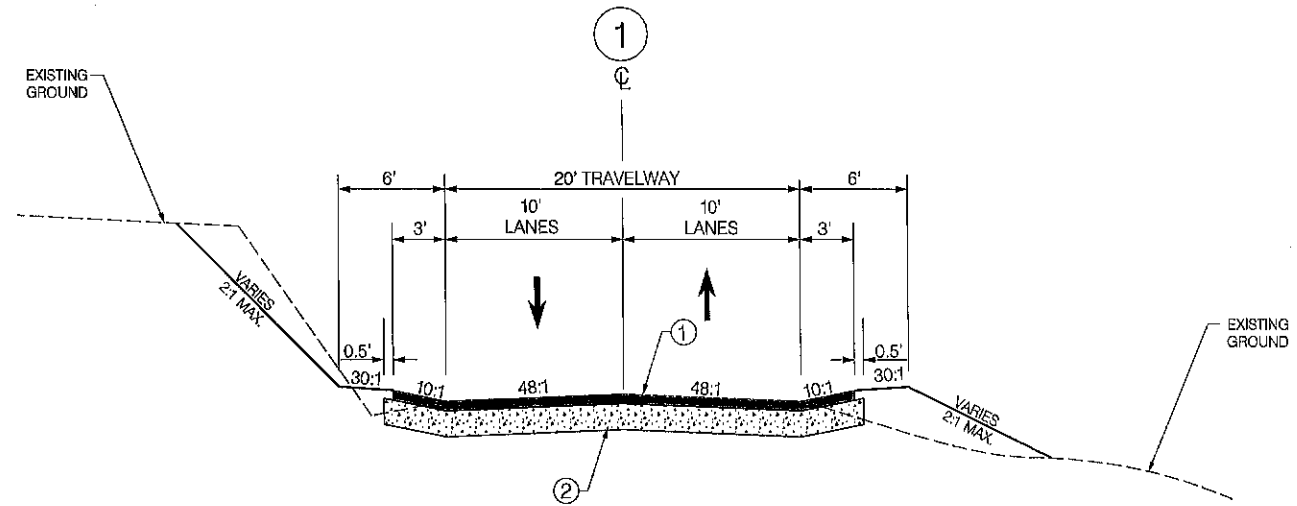
7			
6			
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3			
△	ADN	3-4-19	QUANTITIES ADDED.
△	ADN	9-17-18	QUANTITY ITEM AND NUMBER CHANGED.
REV. NO.	BY	DATE	DESCRIPTION OF REVISION

CALHOUN COUNTY

BANKS LANE

SUMMARY OF ESTIMATED QUANTITIES

FED. RD. DIST. NO.	STATE	COUNTY	PROJECT ID	ROAD / ROUTE NO.	SHEET NO.
3	SC	CALHOUN		BANKS LANE	3



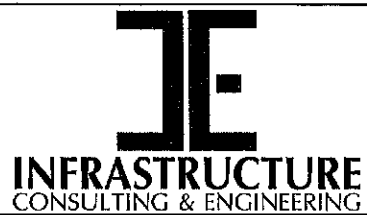
USE THIS SECTION ON  
 BANKS LANE STATION 10+12.01 TO STATION 18+50.00  
 CONGAREE COURT STATION 20+04.16 TO STATION 40+80.49

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 3/6/2019

LEGEND

- ① HOT MIX ASPHALT SURFACE COURSE TYPE C (175 PSY)
- ② GRADED AGGREGATE BASE COURSE (6" UNIFORM)

MPH	FROM STA.	TO STA.
26	10+12.01	18+50.00
25	20+04.16	40+80.49
EXCEPTIONS TO DESIGN SPEED		



SCALE: 1" = NTS

REV. NO.	BY	DATE	DESCRIPTION OF REVISION
7			
6			
5			
4			
3			
2			
1			

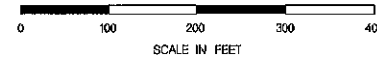
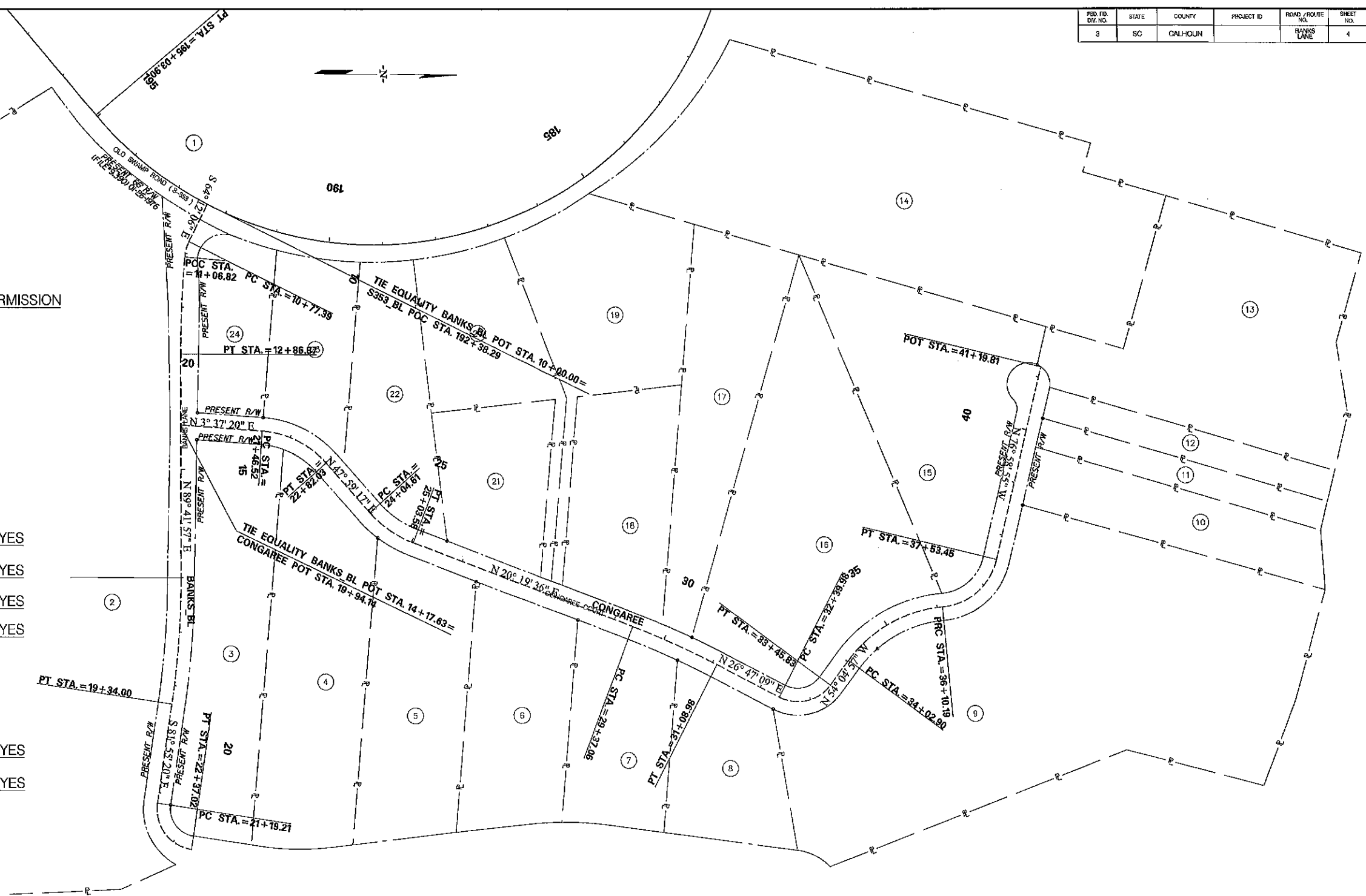
CALHOUN COUNTY CTC

BANKS LANE

TYPICAL SECTIONS

FED. RD. DIV. NO.	STATE	COUNTY	PROJECT ID	ROAD / ROUTE NO.	SHEET NO.
3	SC	CALHOUN		BANKS LANE	4

PARCEL NO.	TMS NO.	CURRENT OWNER	PERMISSION
1	059-00-01-059	SHIRER MATTHEW B	
2	059-00-02-049	SHERRY C. MINIKIEWICZ & WILLIAM F. JTWROS	
3	059-00-02-037	JAMES T. & LAURA K. STOUT	
4	059-00-02-036	MATTHEW WILLIAM CLARK	
5	059-00-02-035	LUCIUS DRIGGERS	
6	059-00-02-034	JOS A. & MARGARET C. TOBIN JR.	
7	059-00-02-033	HATDEN S. YONCE (ETAL)	
8	059-00-02-032	ROBERT N. HUBBS	YES
9	059-00-02-028	MARY F. DUTTON & ROY L. JTWROS	YES
10	059-00-02-027	JOHN E. FITTS Jr.	YES
11	059-00-02-026	DEBORAH S. FITTS c/o DEBORAH HINKLE	YES
12	059-00-02-025	HOWARD LOUIS CHAPMAN III (TRUSTEE)	
13	059-00-02-060	BRETT & JILLIAN VAN HORN	
14	059-00-02-047	DANIEL & BARBARA S. BOLIN	
15	059-00-02-046	BRUCE AMICK	YES
16	059-00-02-054	BRUCE L. AMICK	YES
17	059-00-02-045	CATAWBA WORM, LLC	
18	059-00-02-043	TRI AG INV, LLC c/o DOYCE WILLIE B. HENDRICK	
19	059-00-02-044	DANIEL & BARBARA S. BOLIN	
20	059-00-02-041	BOBBY R. CHILDRESS	
21	059-00-02-042	GORDON M. TURNER	
22	059-00-02-040	ANN P. MIKELL	
23	059-00-02-039	CHRISTOPHER M. & JIMMIE L. LLOYD	
24	059-00-02-038	JAMES L. OSWALD	



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						7				CALHOUN COUNTY BANKS LANE PROPERTY STRIP MAP
						6				
5										
4										
3										
2										
1										
REV. NO.	BY	DATE	DESCRIPTION OF REVISION							

SCALE: 1" = 100'

FED. RD. DIST. NO.	STATE	COUNTY	PROJECT ID	ROAD / ROUTE NO.	SHEET NO.
3	SC	CALHOUN		BANKS LANE	5

# GENERAL CONSTRUCTION NOTES

## GENERAL NOTES



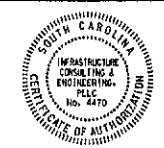
1. ALL WORK ON THIS PROJECT SHALL BE DONE IN ACCORDANCE WITH THE SPECIAL PROVISIONS, THE SOUTH CAROLINA DEPARTMENT OF TRANSPORTATION STANDARD SPECIFICATIONS FOR HIGHWAY CONSTRUCTION (2007 EDITION), AND THE SOUTH CAROLINA DEPARTMENT OF TRANSPORTATION STANDARD DRAWINGS. ALL REFERENCES TO THE SPECIFICATIONS ON THE PLANS SHALL REFER TO THE SPECIAL PROVISIONS, UNLESS OTHERWISE NOTED.
2. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO HAVE THE LATEST SET OF THESE PLANS AND SPECIAL PROVISIONS AND ANY REFERENCED SCDOT STANDARDS AT THE TIME OF NOTICE TO PROCEED.
3. BOUNDARY AND TOPOGRAPHIC INFORMATION FURNISHED BY CALHOUN COUNTY ENGINEERS, COLLECTED ON 11/07/2017.
4. HORIZONTAL CONTROL: THE COORDINATES FOR THIS PROJECT HAVE BEEN ESTABLISHED BY GPS BASED ON SOUTH CAROLINA STATE PLANE NAD 83 (2011).
5. VERTICAL CONTROL: THE LOCATION AND ELEVATION OF BENCHMARKS ARE SHOWN ON THE PLANS. ALL ELEVATIONS SHOWN ARE IN FEET BASED ON NAVD 88 DATUM.
6. ALL PROJECT INSPECTION LOGS / CERTIFIED TEST RESULTS SHALL BE SUBMITTED TO THE OWNER WITH EACH PAY REQUEST.
7. THE CONTRACTOR SHALL BE RESPONSIBLE FOR CUTTING AND MAINTAINING THE PERMANENT AND/OR TEMPORARY STABILIZATION ALONG THE PROJECT LIMITS IN ACCORDANCE TO THE SCDOT SPECIFICATIONS. THIS WORK IS INCIDENTAL TO THE TOTAL COST OF THE PROJECT AND SHALL BE CONTRACTORS RESPONSIBILITY UNTIL THE START OF THE WARRANTY PERIOD.
8. ALL INVERT ELEVATIONS ARE APPROXIMATE. INVERT ELEVATIONS OF INLETS AND PIPES MAY BE MODIFIED AS DIRECTED BY THE ENGINEER TO MEET THE CONDITIONS ENCOUNTERED DURING INSTALLATION OF DRAINAGE STRUCTURES. ALL DITCHES AND PIPES SHALL BE CONSTRUCTED ON UNIFORM GRADE BETWEEN INVERT ELEVATIONS AS NOTED ON PLANS, UNLESS OTHERWISE DIRECTED BY THE ENGINEER.
9. THE LOCATION AND LENGTH OF PIPE SHALL BE VERIFIED BY THE CONTRACTOR PRIOR TO ORDERING.
10. THE CONTRACTOR SHALL REMOVE ALL SEDIMENT AND DEBRIS FROM ALL PIPES WITHIN THE PROJECT LIMITS UPON COMPLETION OF THE WORK.
11. THE CONTRACTOR SHALL GRADE FOR POSITIVE DRAINAGE AT ALL ROADWAY INTERSECTIONS, ENTRANCES, PARKING LOTS, AND YARDS IN CONFORMANCE WITH THE PROPOSED DRAINAGE PATTERNS ON THE PLANS.
12. UTILITIES:
  - A. THE LOCATIONS OF UNDERGROUND AND AERIAL UTILITIES SHOWN ON THE PLANS ARE FOR INFORMATIONAL PURPOSES ONLY AND SHOULD NOT BE CONSIDERED AS COMPLETE OR ACCURATE. THE CONTRACTOR SHALL NOTIFY PUPS TO ARRANGE STAKEOUT OF UTILITIES AT LEAST 3 DAYS PRIOR TO STARTING CONSTRUCTION. THE CONTRACTOR MUST PROTECT, IN PLACE, ALL ACTIVE UNDERGROUND UTILITIES UNLESS OTHERWISE NOTED ON THE PLANS. NO S.U.E. OR VERTICAL LOCATIONS HAVE BEEN COMPLETED AS PART OF THE PROJECT.
  - B. REPAIRS TO UTILITIES OR PROPERTY DAMAGE AS A RESULT OF CONTRACTOR NEGLIGENCE OR METHOD OF OPERATION SHALL BE MADE AT NO ADDITIONAL COST TO THE COUNTY OR PROPERTY OWNER.
  - C. THE CONTRACTOR SHALL PROTECT AND NOT INTERRUPT EXISTING UTILITY SERVICES DURING CONSTRUCTION, UNLESS AUTHORIZED BY THE ENGINEER. THE CONTRACTOR SHALL SUPPORT EXISTING UNDERGROUND UTILITIES DURING CONSTRUCTION. THIS WORK SHALL BE INCIDENTAL TO THE PERTINENT PAY ITEMS. PORTIONS OF THE UTILITIES SHOWN ON THE PLANS MAY BE RELOCATED. NEW LOCATIONS SHALL BE AS SHOWN IN THESE CONTRACT PLANS.
  - D. ALL UNDERGROUND UTILITIES AND/OR CONDUITS AT PAVED AREAS MUST BE IN PLACE PRIOR TO THE PAVEMENT BASE CONSTRUCTION. CONTRACTOR SHALL ENSURE COMPACTION IN ALL UTILITY LOCATIONS.
  - E. THE CONTRACTOR SHALL ADJUST TO GRADE ALL EXISTING MANHOLES, VALVE BOXES, OR OTHER UTILITIES LOCATED WITHIN THE ASPHALT OVERLAY AREA. THIS WORK SHALL BE CONSIDERED INCIDENTAL TO THE FINAL ASPHALT PAVEMENT ITEM NECESSARY TO COMPLETE THE WORK, UNLESS OTHERWISE STATED.
13. THE CONTRACTOR WILL BE RESPONSIBLE FOR THE MAINTENANCE OF TRAFFIC THROUGHOUT THE ENTIRE PERIOD OF CONSTRUCTION BY PROVIDING A REASONABLY SMOOTH AND EVEN SURFACE SATISFACTORY FOR THE USE OF PUBLIC TRAFFIC AND TO PROVIDE ACCESS TO ALL PUBLIC ROADS AND RESIDENTIAL ENTRANCES AT ALL TIMES.
14. ALL EXISTING ROADWAY SIGNAGE SHALL BE RELOCATED, REUSED OR REPLACED AS INDICATED ON THE PLANS OR AS DEEMED NECESSARY TO PERFORM THE WORK. IF ROADWAY REMAINS OPEN TO TRAFFIC DURING CONSTRUCTION, ALL SIGNS THAT ARE TO BE RELOCATED SHALL BE ERECTED IN A TEMPORARY MANNER THAT DOES NOT IMPEDE TRAFFIC FLOW. ANY SIGN MESSAGE THAT CONFLICTS WITH THE CONSTRUCTION TRAFFIC CONTROL SIGNAGE SHALL BE COVERED OR TEMPORARILY REMOVED.
15. CONTRACTOR SHALL BE RESPONSIBLE TO PROVIDE ACCESS FOR MAIL SERVICE DURING CONSTRUCTION. IF NECESSARY, CONTRACTOR SHALL COORDINATE ANY TEMPORARY MAILBOX RELOCATIONS WITH UNITED STATES POSTAL SERVICE.

16. THE CONTRACTOR SHALL ADHERE TO THE WEIGHT LIMITS PRESCRIBED ON SCDOT/COUNTY MAINTAINED ROADS FOR HAULING EQUIPMENT AND/OR MATERIALS TO AND FROM THIS SITE. THE CONTRACTOR SHALL BE HELD RESPONSIBLE FOR ANY DAMAGES TO THE ROADS AND/OR UTILITIES DUE TO NONCOMPLIANCE OF WEIGHT LIMIT REGULATIONS.
17. THE CONTRACTOR SHALL MAKE, CHECK, AND BE RESPONSIBLE FOR ALL MEASUREMENTS AND DIMENSIONS NECESSARY FOR THE PROPER CONSTRUCTION OF ALL WORK. ALL ROAD WIDTH LAYOUT DIMENSIONS SHOWN ARE TO THE EDGE OF PAVEMENT.
18. ALL TIE INS WITH EXISTING ASPHALT SHALL BE SAW CUT.
19. ALL RESIDENTIAL DRIVEWAYS SHALL BE RECONSTRUCTED IN ACCORDANCE WITH THE STANDARD DRIVEWAY DETAIL. ANY CHANGES TO INDIVIDUAL DRIVEWAYS SHALL BE COORDINATED WITH THE ENGINEER.
20. ALL DRIVEWAY CULVERTS SHALL BE RCP PIPE.
21. THE CONTRACTOR MUST NOT OCCUPY ANY NON-PERMITTED WETLAND AREAS.
22. THE COUNTY ENGINEER MUST SPECIFICALLY AUTHORIZE CHANGES INVOLVING INCREASED COST OF PROJECT. THE COUNTY'S REPRESENTATIVE IS PERMITTED UNDER THE DIRECTION OF THE COUNTY ENGINEER TO AUTHORIZE MINOR ALTERATIONS NOT IN CONFLICT WITH THE STANDARD PRACTICES OF THE COUNTY AND/OR SCDOT.
23. AFTER CONTRACTOR CLEARS AND GRUBS, ALLOW THREE WEEKS FOR UTILITIES TO BE RELOCATED.
24. COORDINATE WITH CALHOUN COUNTY PRIOR TO AND DURING CONSTRUCTION FOR THE EXISTING WATER LINE LOCATION AND RELOCATION.  $\Delta$

### ROADWAY INCIDENTAL ITEMS

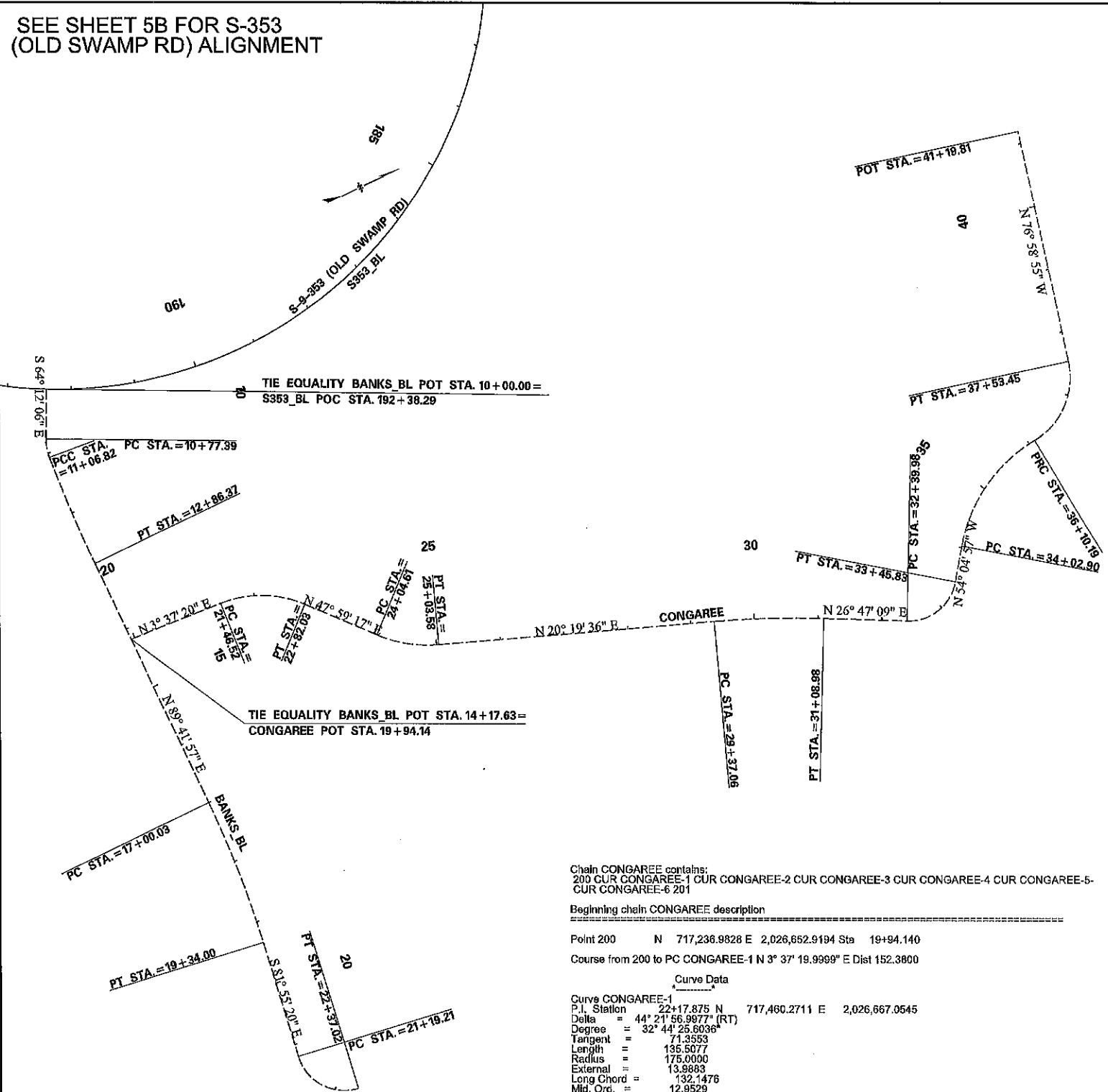
105.1	CONSTRUCTION STAKES, LINES & GRADES	1	EA	
208.1	FINE GRADING	9,439	SY	
305.6	GRADED AGGREGATE BASE COURSE (6" UNIFORM)	40	SY	(ADDITIONAL DRIVEWAYS AS DIRECTED BY ENGINEER)
401.4	HOT MIX ASPHALT SURFACE COURSE TYPE C	4	TON	(ADDITIONAL DRIVEWAYS AS DIRECTED BY ENGINEER)
4010005	PRIME COAT	2,432	GAL	(INCIDENTAL TO ITEM 305.6 and 305.8)
4011004	LIQUID ASPHALT BINDER PG64-22	46	TON	(INCIDENTAL TO ITEM 401.4)
810.0	PERMANENT VEGETATION	1.344	AC	
810.3	TEMPORARY VEGETATION	0.672	AC	

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			7				CALHOUN COUNTY
			6				
			5				BANKS LANE
			4				
			3				GENERAL CONSTRUCTION NOTES
			2				
	$\Delta$	ADN	9-17-18	NOTES 23 AND 24 ADDED.			
	SCALE: NTS	REV. NO.	BY	DATE	DESCRIPTION OF REVISION		

FED. RD. DIST. NO.	STATE	COUNTY	PROJECT ID	ROAD / ROUTE NO.	SHEET NO.
3	SC	CALHOUN		BANKS LANE	6A

SEE SHEET 5B FOR S-353 (OLD SWAMP RD) ALIGNMENT



Course from PT CONGAREE-1 to PC CONGAREE-2 N 47° 59' 16.9878" E Dist 122.5786

Curve Data  
 Curve CONGAREE-2  
 P.I. Station 24+55.076 N 717,823.8468 E 2,026,848.6476  
 Delta = 27° 38' 41.4428" (LT)  
 Degree = 27° 38' 41.4428"  
 Tangent = 50.4695  
 Length = 98.9708  
 Radius = 205.0000  
 External = 6.1212  
 Long Chord = 98.0124  
 Mid. Ord. = 5.8438  
 P.C. Station 24+04.608 N 717,590.0683 E 2,026,811.1484  
 P.T. Station 25+03.577 N 717,871.1735 E 2,026,868.1792  
 C.C. N 717,742.3844 E 2,026,873.9449  
 Back = N 47° 59' 16.9877" E  
 Ahead = N 20° 19' 35.5549" E  
 Chord Bear = N 34° 09' 26.2763" E

Course from PT CONGAREE-2 to PC CONGAREE-3 N 20° 19' 35.5549" E Dist 433.4816

Curve Data  
 Curve CONGAREE-3  
 P.I. Station 30+23.110 N 718,158.3538 E 2,027,046.6492  
 Delta = 8° 27' 33.0458" (RT)  
 Degree = 8° 27' 33.0458"  
 Tangent = 86.0508  
 Length = 171.9193  
 Radius = 1,525.0000  
 External = 2.4259  
 Long Chord = 171.8282  
 Mid. Ord. = 2.4220  
 P.C. Station 29+37.059 N 718,077.8813 E 2,027,018.7577  
 P.T. Station 31+08.978 N 718,236.1710 E 2,027,085.4284  
 C.C. N 717,547.9219 E 2,028,446.7931  
 Back = N 20° 19' 35.5549" E  
 Ahead = N 26° 47' 08.6007" E  
 Chord Bear = N 23° 33' 22.0778" E

Course from PT CONGAREE-3 to PC CONGAREE-4 N 26° 47' 08.6007" E Dist 130.9976

Curve Data  
 Curve CONGAREE-4  
 P.I. Station 33+03.883 N 718,409.1820 E 2,027,173.2631  
 Delta = 80° 52' 05.4246" (LT)  
 Degree = 76° 23' 36.7417"  
 Tangent = 63.9070  
 Length = 105.8562  
 Radius = 75.0000  
 External = 23.5348  
 Long Chord = 87.2859  
 Mid. Ord. = 17.9136  
 P.C. Station 32+39.976 N 718,352.1123 E 2,027,144.4631  
 P.T. Station 33+45.832 N 718,446.6511 E 2,027,121.5073  
 C.C. N 718,385.9114 E 2,027,077.5108  
 Back = N 26° 47' 08.6007" E  
 Ahead = N 54° 04' 56.8238" W  
 Chord Bear = N 13° 38' 54.1116" W

Course from PT CONGAREE-4 to PC CONGAREE-5 N 54° 04' 56.8238" W Dist 57.0725

Curve Data  
 Curve CONGAREE-5  
 P.I. Station 35+13.207 N 718,544.8369 E 2,026,985.9564  
 Delta = 48° 28' 33.7043" (RT)  
 Degree = 23° 23' 08.7188"  
 Tangent = 110.3028  
 Length = 207.2862  
 Radius = 245.0000  
 External = 23.8851  
 Long Chord = 201.1588  
 Mid. Ord. = 21.5973  
 P.C. Station 34+02.804 N 718,480.1310 E 2,027,075.2864  
 P.T. Station 36+10.191 N 718,654.6121 E 2,026,975.1804  
 C.C. N 718,678.5472 E 2,027,219.0084  
 Back = N 54° 04' 56.8238" W  
 Ahead = N 5° 36' 23.1196" W  
 Chord Bear = N 29° 50' 39.9718" W

Course from PT CONGAREE-5 to 201 N 76° 58' 55.0493" W Dist 366.3546

Curve Data  
 Curve CONGAREE-6  
 P.I. Station 36+92.789 N 718,736.8156 E 2,026,967.1110  
 Delta = 71° 22' 31.9297" (LT)  
 Degree = 49° 49' 20.7011"  
 Tangent = 82.5987  
 Length = 143.2599  
 Radius = 115.0000  
 External = 26.5893  
 Long Chord = 134.1746  
 Mid. Ord. = 21.5961  
 P.C. Station 36+10.191 N 718,654.6121 E 2,026,975.1804  
 P.T. Station 37+63.451 N 718,765.4216 E 2,026,896.6352  
 C.C. N 718,643.3772 E 2,026,860.7305  
 Back = N 6° 36' 23.1196" W  
 Ahead = N 76° 58' 55.0493" W  
 Chord Bear = N 41° 17' 39.0845" W

Course from PT CONGAREE-6 to 201 N 76° 58' 55.0493" W Dist 366.3546

Point 201 N 718,837.9459 E 2,026,529.8962 Sta 41+19.805

Ending chain CONGAREE description

Chain BANKS BL contains:  
 400 CUR BANKS BL-1 CUR BANKS BL-2 CUR BANKS BL-3 CUR BANKS BL-4

Beginning chain BANKS BL description

Point 400 N 717,284.5919 E 2,026,244.3938 Sta 10+00.000

Course from 400 to PC BANKS BL-1 S 64° 12' 05.6992" E Dist 77.3869

Curve Data  
 Curve BANKS BL-1  
 P.I. Station 10+92.272 N 717,244.4344 E 2,026,327.4696  
 Delta = 21° 04' 51.3985" (LT)  
 Degree = 21° 04' 51.3985"  
 Tangent = 14.8856  
 Length = 29.4346  
 Radius = 80.0000  
 External = 1.3731  
 Long Chord = 29.2888  
 Mid. Ord. = 1.3498  
 P.C. Station 10+77.387 N 717,250.9127 E 2,026,314.0676  
 P.T. Station 11+08.821 N 717,243.2102 E 2,026,342.3047  
 C.C. N 717,322.9392 E 2,026,348.8841  
 Back = S 64° 12' 05.6992" E  
 Ahead = S 85° 16' 57.0977" E  
 Chord Bear = S 74° 44' 31.3988" E

Course from PT BANKS BL-1 to PC BANKS BL-2 N 89° 41' 57.1839" E Dist 413.6553

Curve Data  
 Curve BANKS BL-2  
 P.I. Station 11+99.654 N 717,235.8222 E 2,026,431.8325  
 Delta = 5° 01' 05.7187" (LT)  
 Degree = 2° 47' 41.6979"  
 Tangent = 89.8321  
 Length = 179.5494  
 Radius = 2,050.0000  
 External = 1.9673  
 Long Chord = 179.4920  
 Mid. Ord. = 1.9654  
 P.C. Station 11+06.821 N 717,243.2102 E 2,026,342.3047  
 P.T. Station 12+86.371 N 717,236.2937 E 2,026,521.6834  
 C.C. N 719,286.2655 E 2,026,510.9017  
 Back = S 85° 16' 57.0977" E  
 Ahead = N 89° 41' 57.1839" E  
 Chord Bear = S 87° 47' 29.8571" E

Course from PT BANKS BL-2 to PC BANKS BL-3 N 89° 41' 57.1839" E Dist 413.6553

Curve Data  
 Curve BANKS BL-3  
 P.I. Station 18+17.222 N 717,239.0805 E 2,027,052.6071  
 Delta = 8° 22' 42.8164" (RT)  
 Degree = 3° 34' 51.5504"  
 Tangent = 117.1957  
 Length = 233.9735  
 Radius = 1,600.0000  
 External = 4.2864  
 Long Chord = 233.7851  
 Mid. Ord. = 4.2749  
 P.C. Station 17+00.026 N 717,238.4653 E 2,026,935.3131  
 P.T. Station 19+34.000 N 717,222.6126 E 2,027,166.5400  
 C.C. N 715,638.4873 E 2,028,943.7124  
 Back = N 89° 41' 57.1839" E  
 Ahead = S 81° 55' 20.0000" E  
 Chord Bear = S 86° 06' 41.4082" E

Course from PT BANKS BL-3 to PC BANKS BL-4 S 81° 55' 20.0000" E Dist 185.2086

Curve Data  
 Curve BANKS BL-4  
 P.I. Station 21+94.207 N 717,186.0488 E 2,027,426.1658  
 Delta = 89° 59' 57.0220" (LT)  
 Degree = 76° 23' 38.7417"  
 Tangent = 74.9989  
 Length = 117.8086  
 Radius = 75.0000  
 External = 31.0853  
 Long Chord = 106.0853  
 Mid. Ord. = 21.9666  
 P.C. Station 21+19.208 N 717,196.5875 E 2,027,351.9110  
 P.T. Station 22+37.017 N 717,260.3036 E 2,027,436.7055  
 C.C. N 717,270.8434 E 2,027,362.4488  
 Back = S 81° 55' 20.0000" E  
 Ahead = N 8° 04' 42.9780" E  
 Chord Bear = N 53° 04' 41.4890" E

Ending chain BANKS BL description

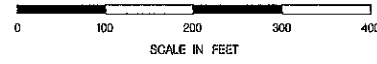
Chain CONGAREE contains:  
 200 CUR CONGAREE-1 CUR CONGAREE-2 CUR CONGAREE-3 CUR CONGAREE-4 CUR CONGAREE-5-  
 CUR CONGAREE-6 201

Beginning chain CONGAREE description

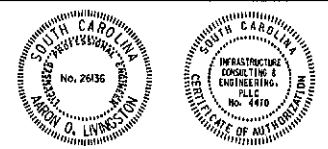
Point 200 N 717,236.9828 E 2,026,652.9194 Sta 19+94.140

Course from 200 to PC CONGAREE-1 N 3° 37' 19.9999" E Dist 152.3800

Curve Data  
 Curve CONGAREE-1  
 P.I. Station 22+17.875 N 717,460.2711 E 2,026,667.0545  
 Delta = 44° 21' 56.9877" (RT)  
 Degree = 32° 44' 25.6036"  
 Tangent = 71.3553  
 Length = 135.5077  
 Radius = 175.0000  
 External = 13.8683  
 Long Chord = 132.1476  
 Mid. Ord. = 12.9529  
 P.C. Station 21+46.520 N 717,389.0584 E 2,026,662.5464  
 P.T. Station 22+62.028 N 717,508.0282 E 2,026,720.0719  
 C.C. N 717,378.0023 E 2,026,837.1989  
 Back = N 3° 37' 20.0000" E  
 Ahead = N 47° 59' 16.9877" E  
 Chord Bear = N 25° 48' 18.4969" E



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 1021 BRIDGATE CIRCLE  
 COLUMBIA, SOUTH CAROLINA 29210



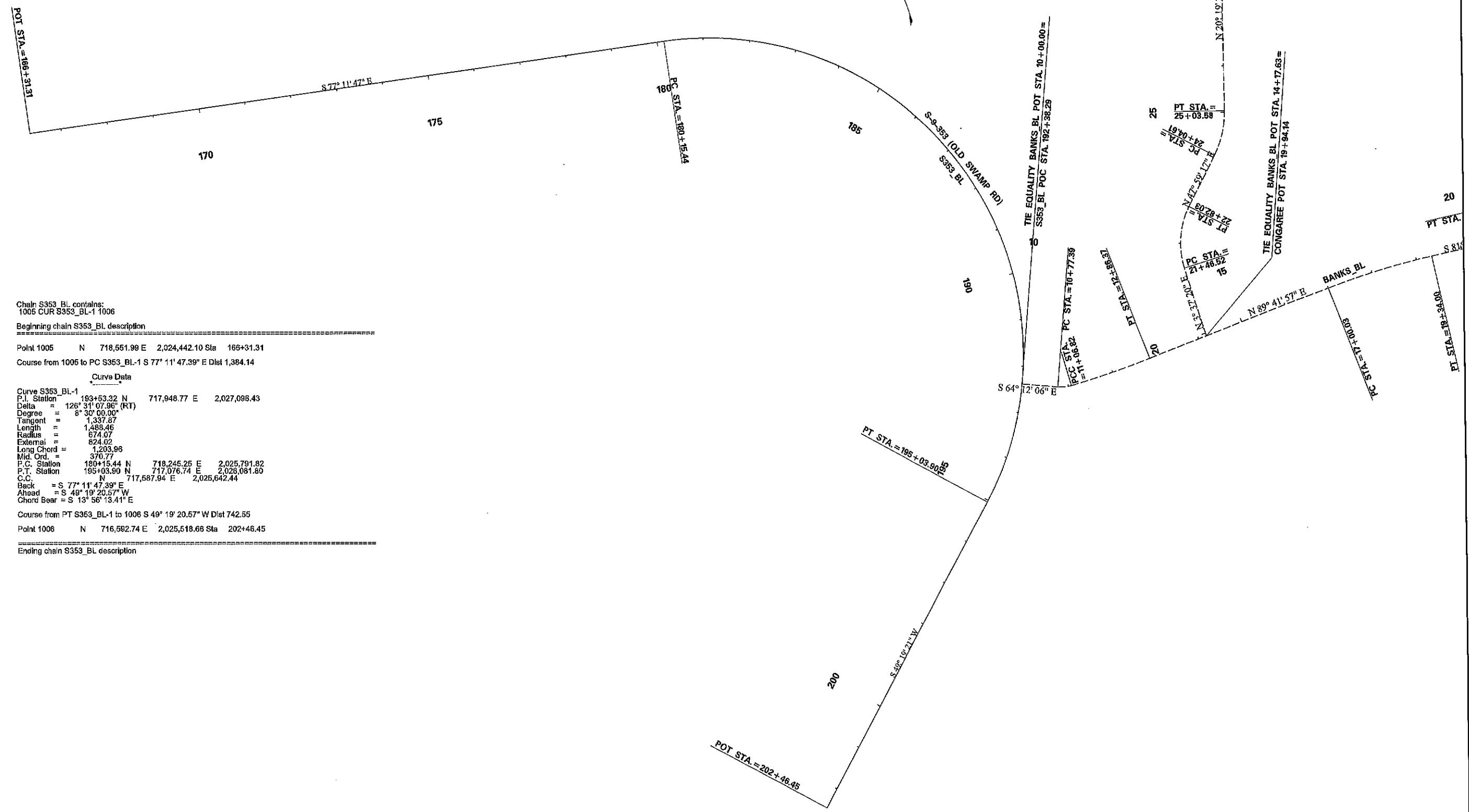
SCALE: 1" = 100'

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REV. NO.	BY	DATE	DESCRIPTION OF REVISION	

CALHOUN COUNTY  
 BANKS LANE  
 REFERENCE DATA SHEET

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FED. RD. DIV. NO.	STATE	COUNTY	PROJECT ID	ROAD / ROUTE NO.	SHEET NO.
3	SC	CALHOUN		BANKS LANE	6B



Chain S353\_BL contains:  
1006 CUR S353\_BL-1 1006

Beginning chain S353\_BL description

Point 1005 N 718,551.99 E 2,024,442.10 Sta 166+31.31

Course from 1005 to PC S353\_BL-1 S 77° 11' 47.39" E Dist 1,384.14

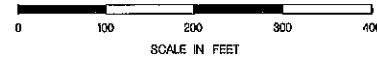
Curve Data

Curve S353\_BL-1  
 P.I. Station 193+53.32 N 717,948.77 E 2,027,096.43  
 Delta = 126° 31' 07.96" (RT)  
 Degree = 6° 30' 00.90"  
 Tangent = 1,337.87  
 Length = 1,488.46  
 Radius = 674.07  
 External = 824.02  
 Long Chord = 1,203.95  
 Mid. Ord. = 376.77  
 P.C. Station 195+03.90 N 718,245.25 E 2,025,791.82  
 P.T. Station 195+03.90 N 717,076.74 E 2,026,081.89  
 C.C. N 717,587.94 E 2,025,642.44  
 Back = S 77° 11' 47.39" E  
 Ahead = S 49° 19' 20.57" W  
 Chord Bear = S 13° 56' 13.41" E

Course from PT S353\_BL-1 to 1006 S 49° 19' 20.57" W Dist 742.55

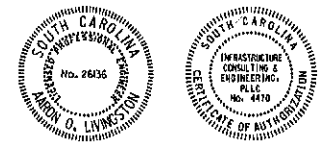
Point 1006 N 716,582.74 E 2,025,518.66 Sta 202+46.45

Ending chain S353\_BL description



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**IE INFRASTRUCTURE**  
CONSULTING & ENGINEERING  
CONSULTING ENGINEERS  
1021 SPRINGGATE CIRCLE  
COLUMBIA, SOUTH CAROLINA 29210



SCALE: 1" = 100'

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REV. NO.	BY	DATE	DESCRIPTION OF REVISION

CALHOUN COUNTY  
BANKS LANE  
REFERENCE DATA SHEET

FED. RD. DIV. NO.	STATE	COUNTY	PROJECT ID	ROAD / ROUTE NO.	SHEET NO.
3	SC	CALHOUN		BANKS LANE	6

**LEGEND**

- SEDIMENT TUBE
- TYPE F INLET FILTERS (NON-WEIGHTED DURING CONSTRUCTION, WEIGHTED ONCE BASE COURSE IS PLACED.)
- PROPOSED WATER LINE
- EXISTING PAVEMENT REMOVAL

**UTILITY OWNERS**

AT&T/D  
BSZT29  
(843) 536-7203  
Phone

Calhoun County Municipal Water  
CMW35  
(803) 739-1711  
Water  
Additional Contact:  
Woody Rucker  
(803) 1879-2435

Tri-County Electric Coop  
TCE12  
(803) 874-1215  
Electric

PLACE W2-2L-36 & W13-118 WITH 1-3P-14" POST, APPROX. 530' FROM BANKS LN AND OLD SWAMP RD INTERSECTION FIELD LOCATE SIGN AS NECESSARY

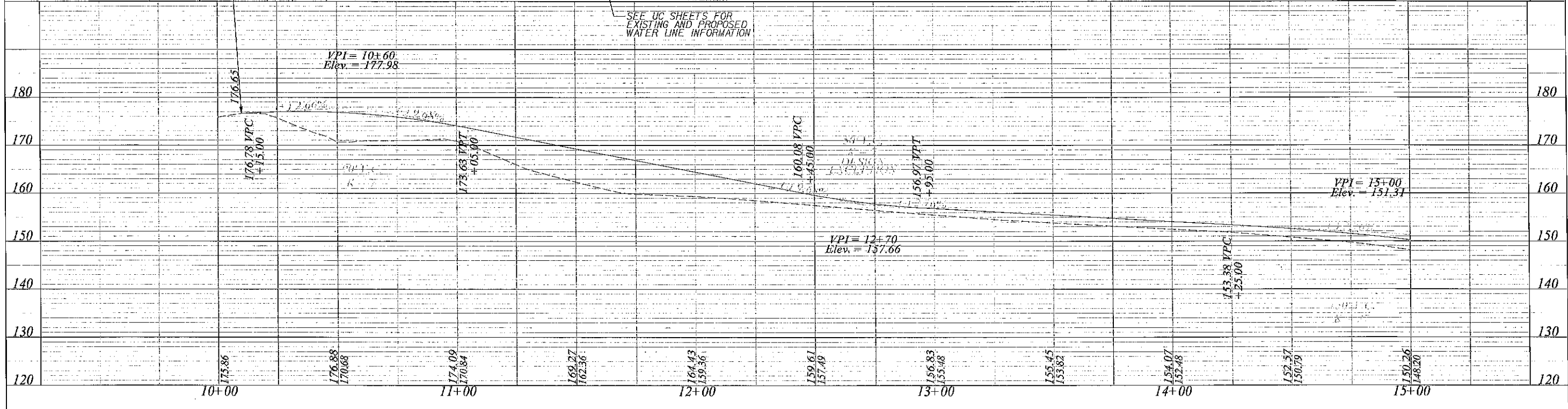
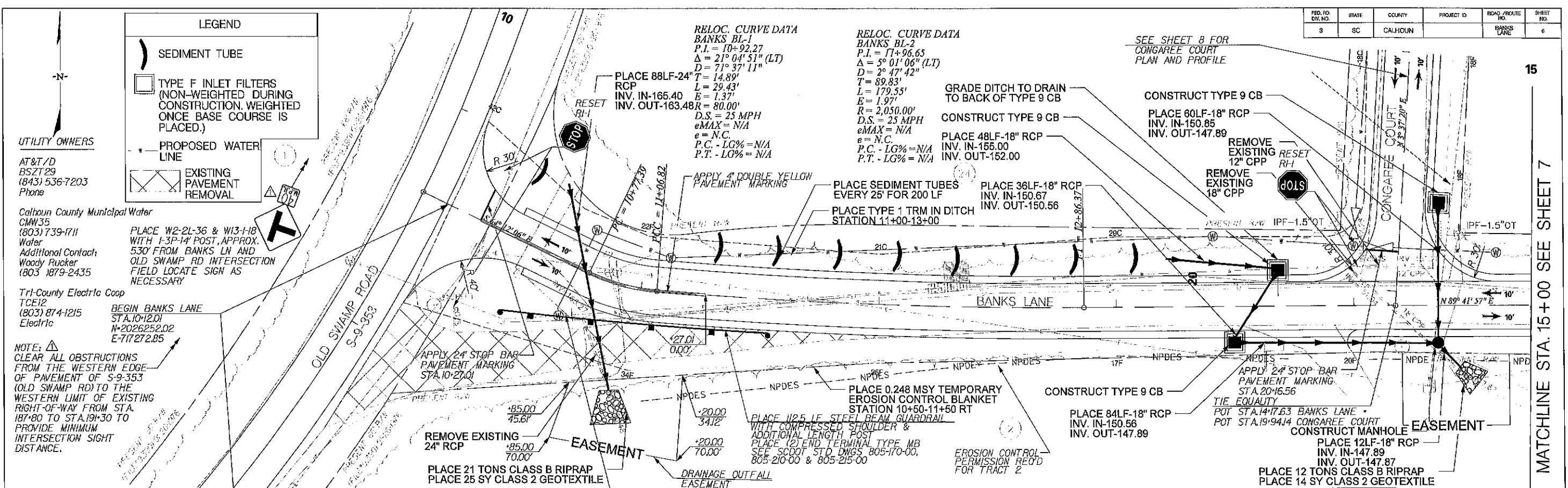
BEGIN BANKS LANE STA. 10+12.01 N=2026252.02 E=717272.85

**NOTE:** CLEAR ALL OBSTRUCTIONS FROM THE WESTERN EDGE OF PAVEMENT OF S-9-353 (OLD SWAMP RD) TO THE WESTERN LIMIT OF EXISTING RIGHT-OF-WAY FROM STA. 187+00 TO STA. 191+30 TO PROVIDE MINIMUM INTERSECTION SIGHT DISTANCE.

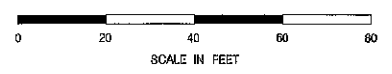
**RELOC. CURVE DATA**  
BANKS BL-1  
P.I. = 10+92.27  
 $\Delta = 21^{\circ} 04' 51''$  (LT)  
D = 71' 37' 11"  
T = 14.89'  
L = 29.43'  
E = 1.37'  
R = 80.00'  
D.S. = 25 MPH  
eMAX = N/A  
e = N.C.  
P.C. - LG% = N/A  
P.T. - LG% = N/A

**RELOC. CURVE DATA**  
BANKS BL-2  
P.I. = 11+96.65  
 $\Delta = 5^{\circ} 01' 06''$  (LT)  
D = 2^{\circ} 47' 42"  
T = 89.83'  
L = 179.55'  
E = 1.97'  
R = 2,050.00'  
D.S. = 25 MPH  
eMAX = N/A  
e = N.C.  
P.C. - LG% = N/A  
P.T. - LG% = N/A

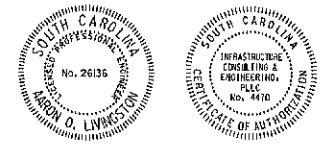
SEE SHEET 8 FOR CONGAREE COURT PLAN AND PROFILE



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3/6/2019



**INFRASTRUCTURE CONSULTING & ENGINEERING**  
CONSULTING ENGINEERS  
1021 BRIDGEWAY CIRCLE  
COLUMBIA, SOUTH CAROLINA 29210



SCALE: 1" = 20'

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1	ADN	08/23/18	SPEED ADVISORY SIGN CHANGED AND CLEARING NOTE REVISED
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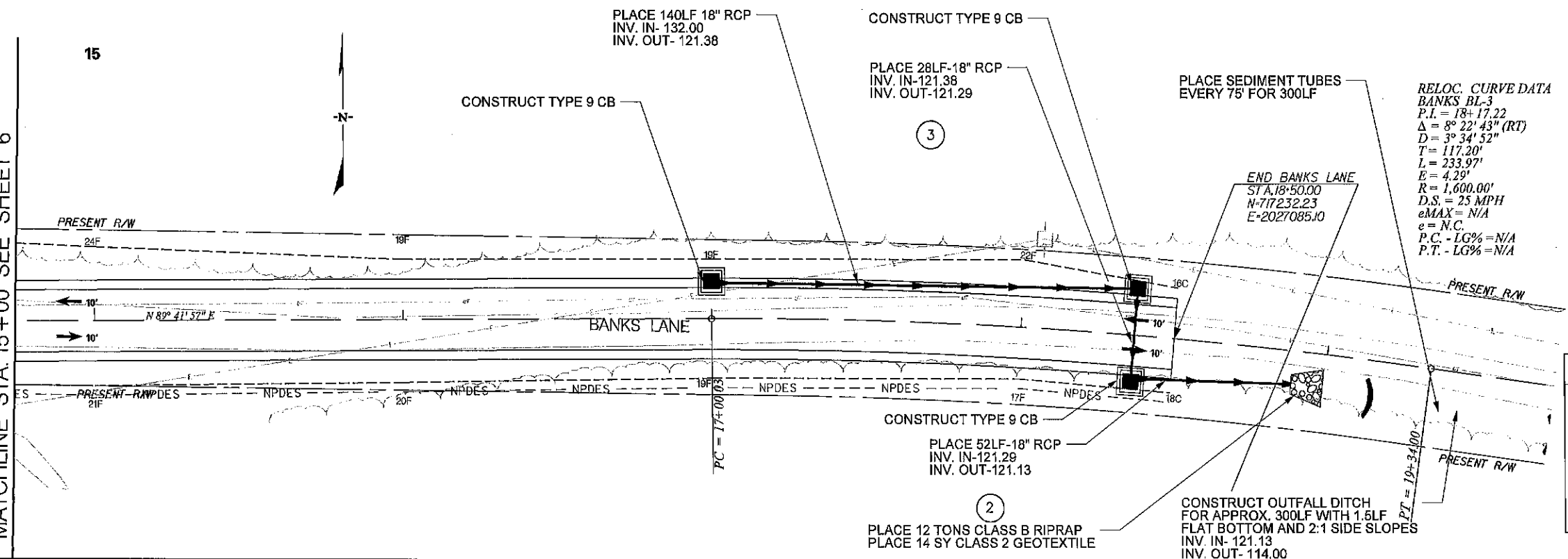
CALHOUN COUNTY  
BANKS LANE  
PLAN AND PROFILE SHEET

MATCHLINE STA. 15+00 SEE SHEET 7



FED. RD DIST. NO.	STATE	COUNTY	PROJECT ID	ROAD/ROUTE NO.	SHEET NO.
3	SC	CALHOUN		BANKS LANE	7

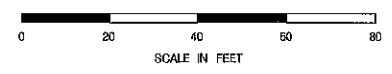
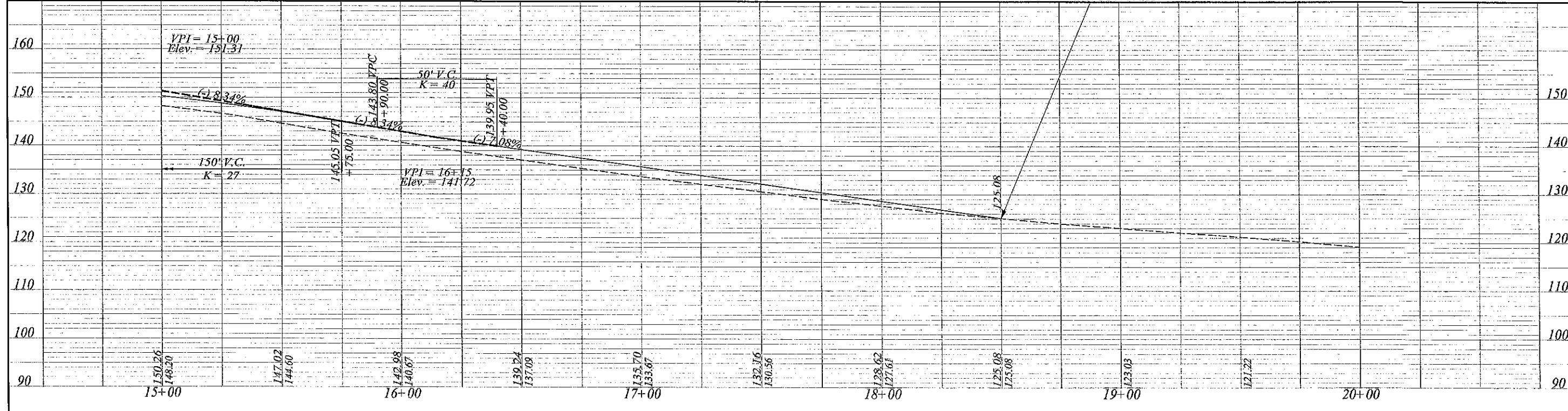
MATCHLINE STA. 15+00 SEE SHEET 6



**RELOC. CURVE DATA**  
 BANKS BL-3  
 P.I. = 18+17.22  
 $\Delta = 8^{\circ} 22' 43''$  (RT)  
 $D = 3^{\circ} 34' 52''$   
 $T = 117.20'$   
 $L = 233.97'$   
 $E = 4.29'$   
 $R = 1,600.00'$   
 $D.S. = 25$  MPH  
 $e_{MAX} = N/A$   
 $e = N.C.$   
 $P.C. - LG\% = N/A$   
 $P.T. - LG\% = N/A$

**LEGEND**

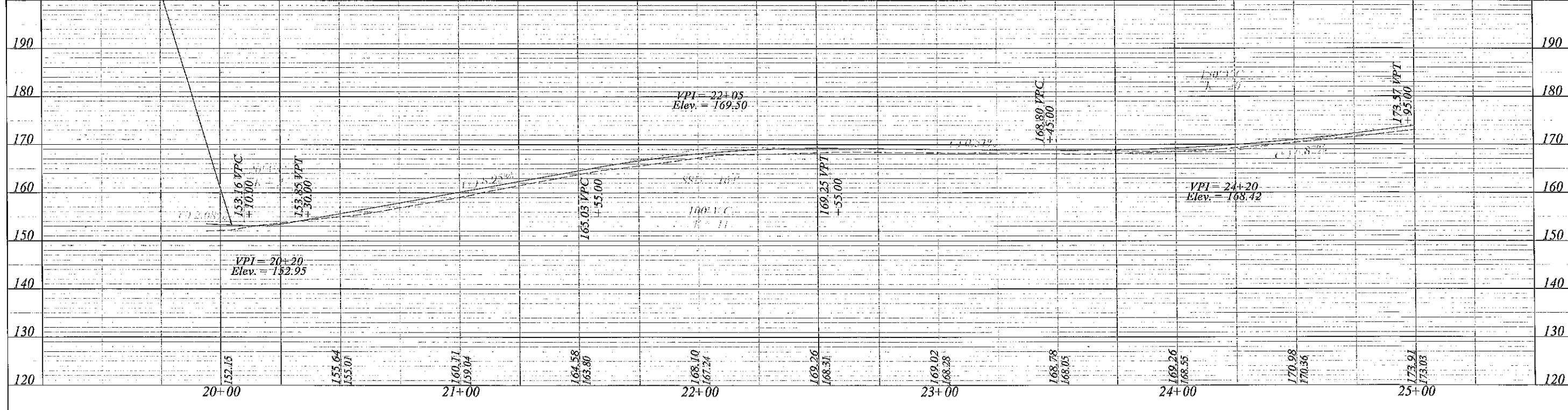
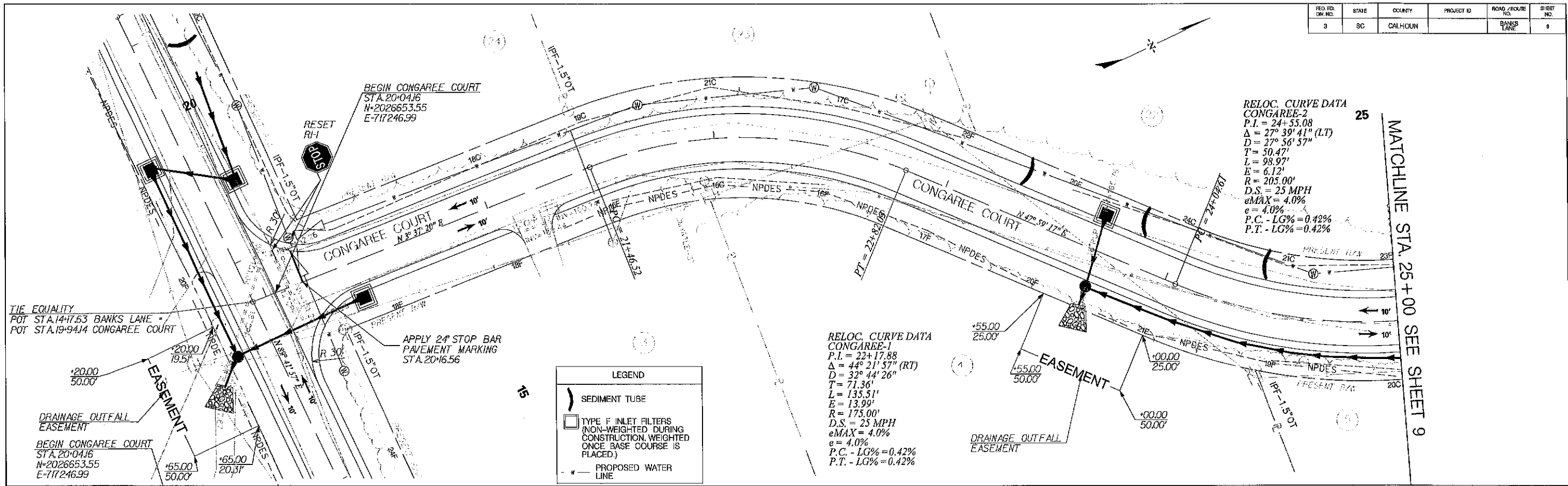
- SEDIMENT TUBE
- TYPE F INLET FILTERS (NON-WEIGHTED DURING CONSTRUCTION. WEIGHTED ONCE BASE COURSE IS PLACED.)



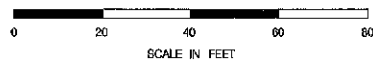
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			7			CALHOUN COUNTY BANKS LANE PLAN AND PROFILE SHEET
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SCALE: 1" = 20'			REV. NO.	BY	DATE	DESCRIPTION OF REVISION

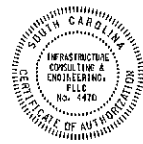
FED. RD. DIST. NO.	STATE	COUNTY	PROJECT ID	ROAD / ROUTE NO.	SHEET NO.
3	SC	CALHOUN		BANKS LANE	8



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**INFRASTRUCTURE CONSULTING & ENGINEERING**  
 CONSULTING ENGINEERS  
 1021 BRIVARATE CIRCLE  
 COLUMBIA, SOUTH CAROLINA 29210



SCALE: 1" = 20'

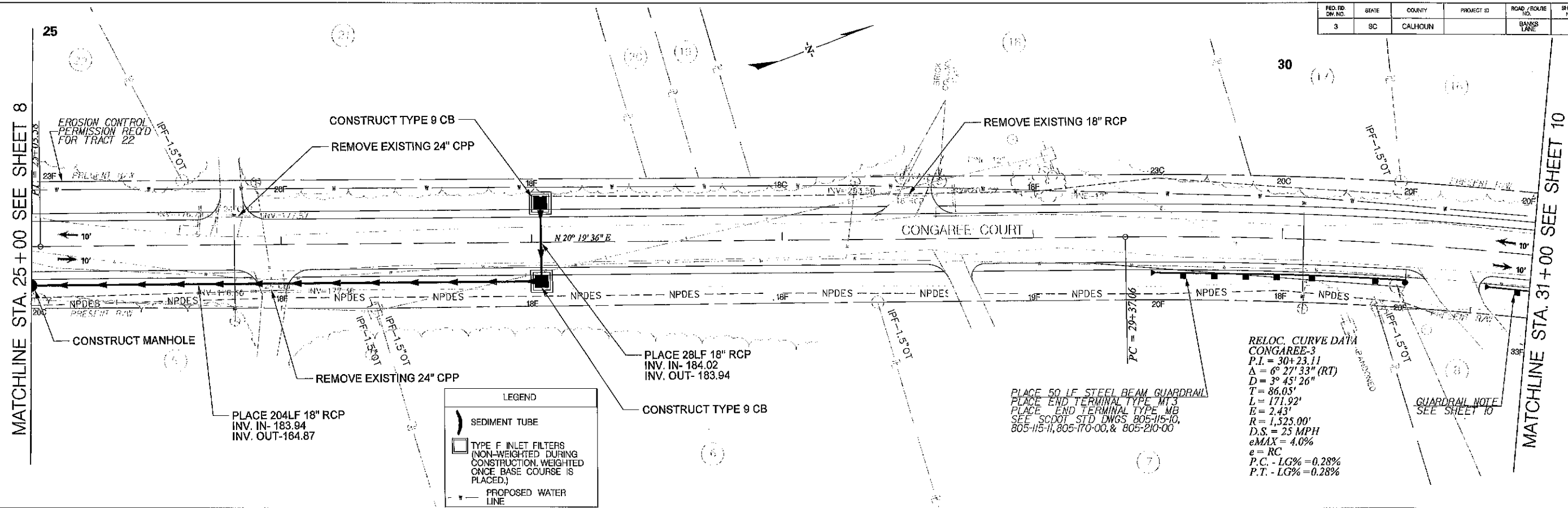
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REV. NO.	BY	DATE	DESCRIPTION OF REVISION

CALHOUN COUNTY  
 BANKS LANE  
 PLAN AND PROFILE SHEET

FED. RD. DIST. NO.	STATE	COUNTY	PROJECT ID	ROAD / ROUTE NO.	SHEET NO.
3	SC	CALHOUN		BANKS LANE	8

MATCHLINE STA. 25+00 SEE SHEET 8

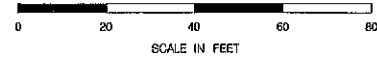
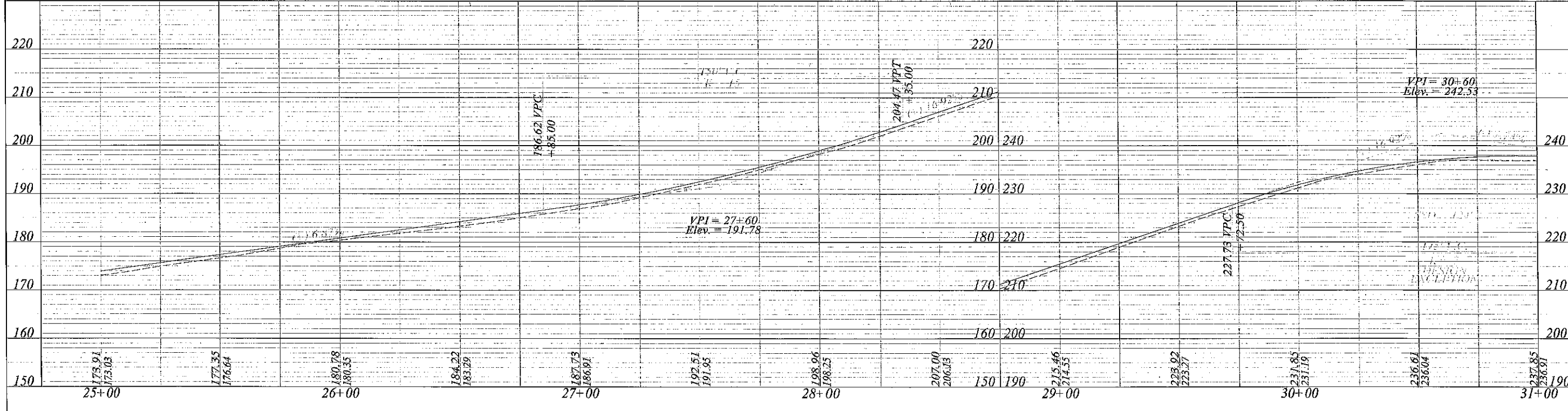
MATCHLINE STA. 31+00 SEE SHEET 10



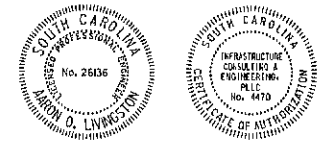
**RELOC. CURVE DATA**  
 CONGAREE-3  
 P.I. = 30+23.11  
 $\Delta = 6^\circ 27' 33''$  (RT)  
 $D = 3^\circ 45' 26''$   
 $T = 86.05'$   
 $L = 171.92'$   
 $E = 2.43'$   
 $R = 1,525.00'$   
 $D.S. = 25$  MPH  
 $e_{MAX} = 4.0\%$   
 $e = RC$   
 $P.C. - LG\% = -0.28\%$   
 $P.T. - LG\% = -0.28\%$

**LEGEND**

- SEDIMENT TUBE
- TYPE F INLET FILTERS (NON-WEIGHTED DURING CONSTRUCTION, WEIGHTED ONCE BASE COURSE IS PLACED.)
- PROPOSED WATER LINE



**INFRASTRUCTURE CONSULTING & ENGINEERING**  
 CONSULTING ENGINEERS  
 1021 BRIDGATE CIRCLE  
 COLUMBIA, SOUTH CAROLINA 29210



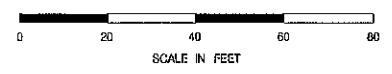
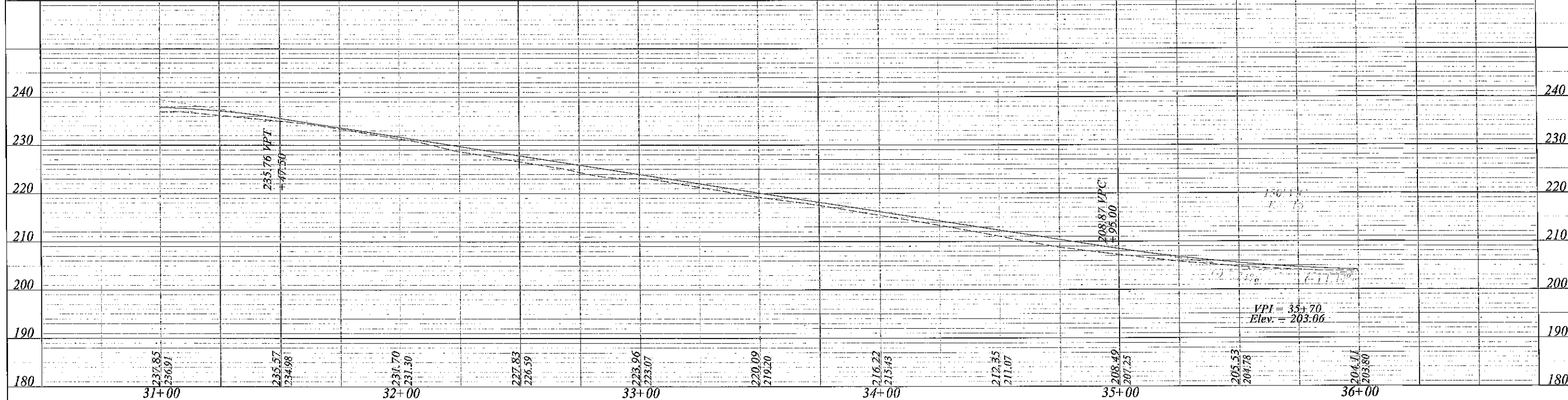
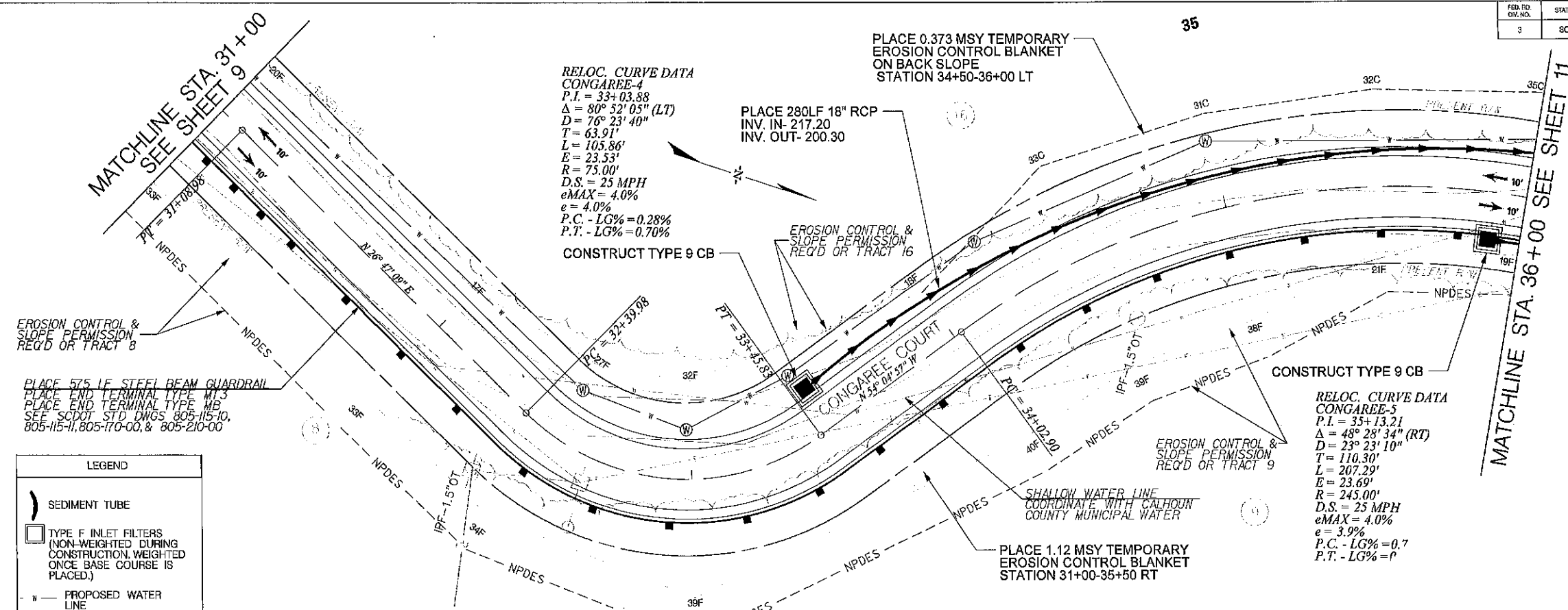
SCALE: 1" = 20'

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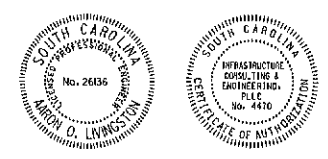
CALHOUN COUNTY  
 BANKS LANE  
 PLAN AND PROFILE SHEET

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FED. RD. DIV. NO.	STATE	COUNTY	PROJECT ID	ROAD / ROUTE	SHEET NO.
3	SC	CALHOUN		BANKS LANE	10



**INFRASTRUCTURE CONSULTING & ENGINEERING**  
 CONSULTING ENGINEERS  
 1021 BRIDGEWAY CIRCLE  
 COLUMBIA, SOUTH CAROLINA 29210



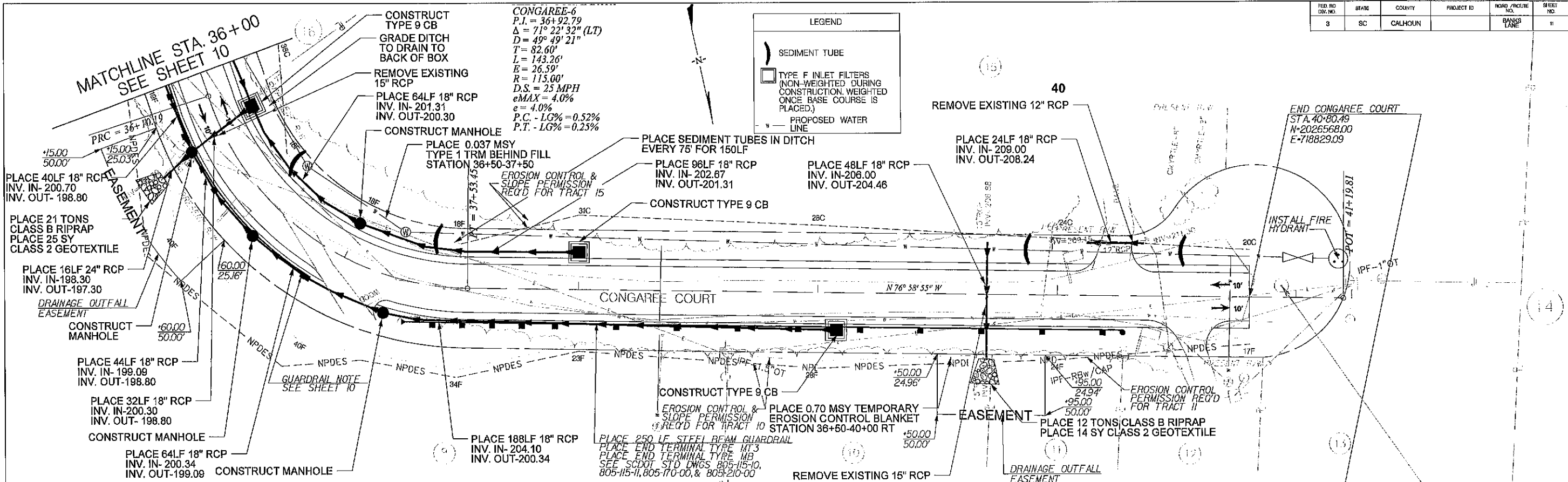
SCALE: 1" = 20'

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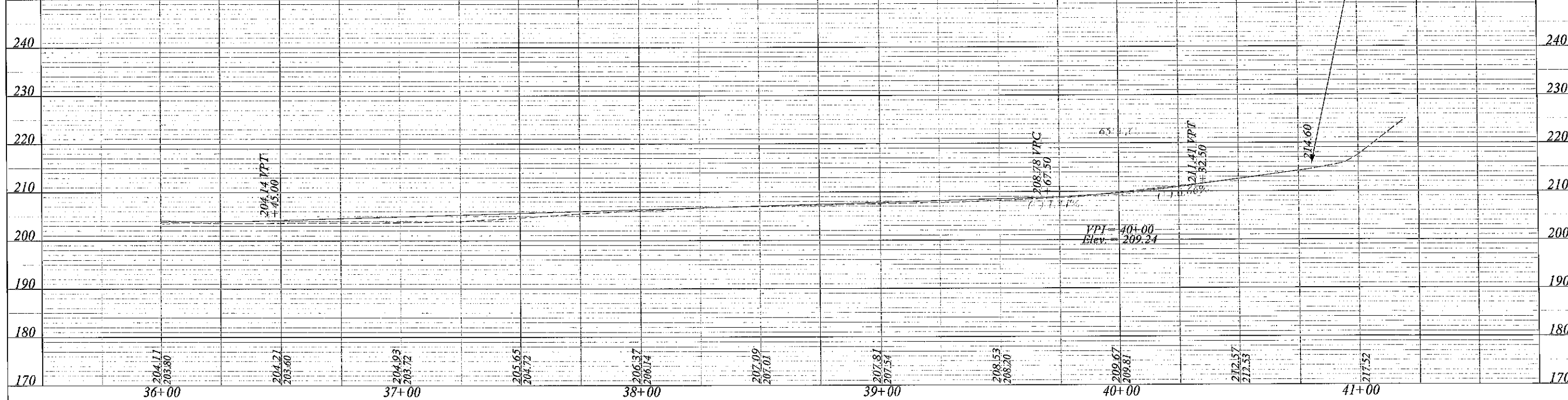
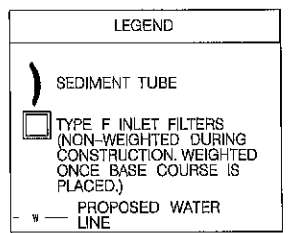
CALHOUN COUNTY  
 BANKS LANE  
 PLAN AND PROFILE SHEET

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 3/6/2019

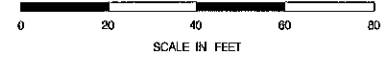
FED. RD. DIV. NO.	STATE	COUNTY	PROJECT ID	ROAD / ROUTE NO.	SHEET NO.
3	SC	CALHOUN		BANKS LANE	11



**CONGAREE-6**  
 P.I. = 36+92.79  
 $\Delta = 71^\circ 22' 32''$  (LT)  
 $D = 49^\circ 49' 21''$   
 $T = 82.60'$   
 $L = 143.26'$   
 $E = 26.59'$   
 $R = 115.00'$   
 $D.S. = 25$  MPH  
 $e_{MAX} = 4.0\%$   
 $P.C. - LG\% = 0.52\%$   
 $P.T. - LG\% = 0.25\%$



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**INFRASTRUCTURE CONSULTING & ENGINEERING**  
 CONSULTING ENGINEERS  
 1021 BRIMGATE CIRCLE  
 COLUMBIA, SOUTH CAROLINA 29210



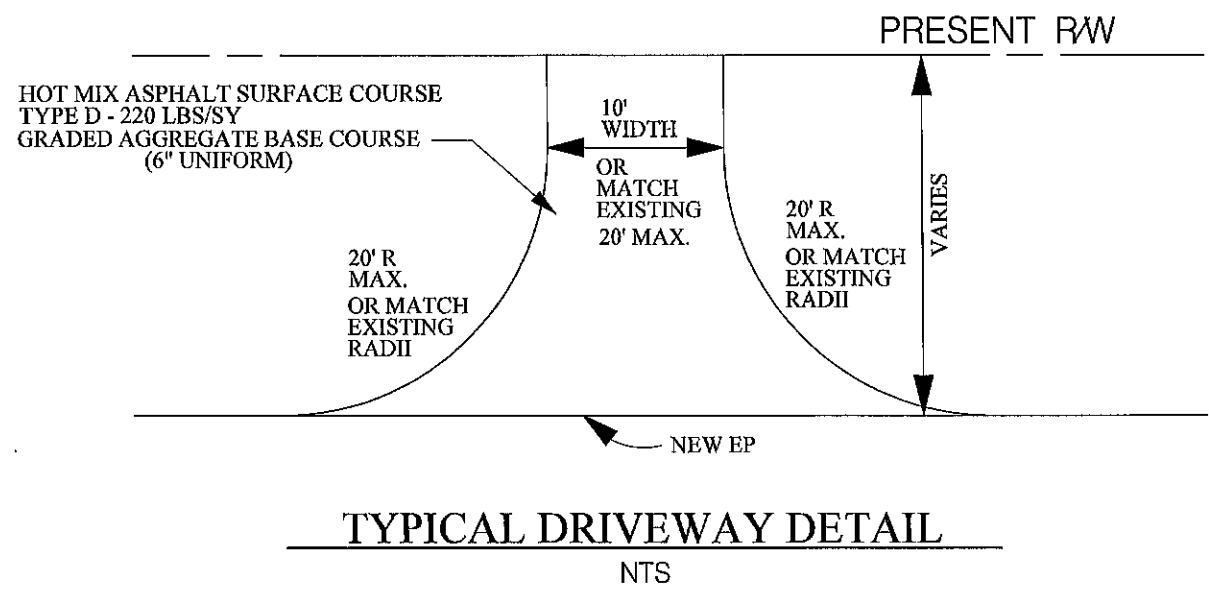
SCALE: 1" = 20'

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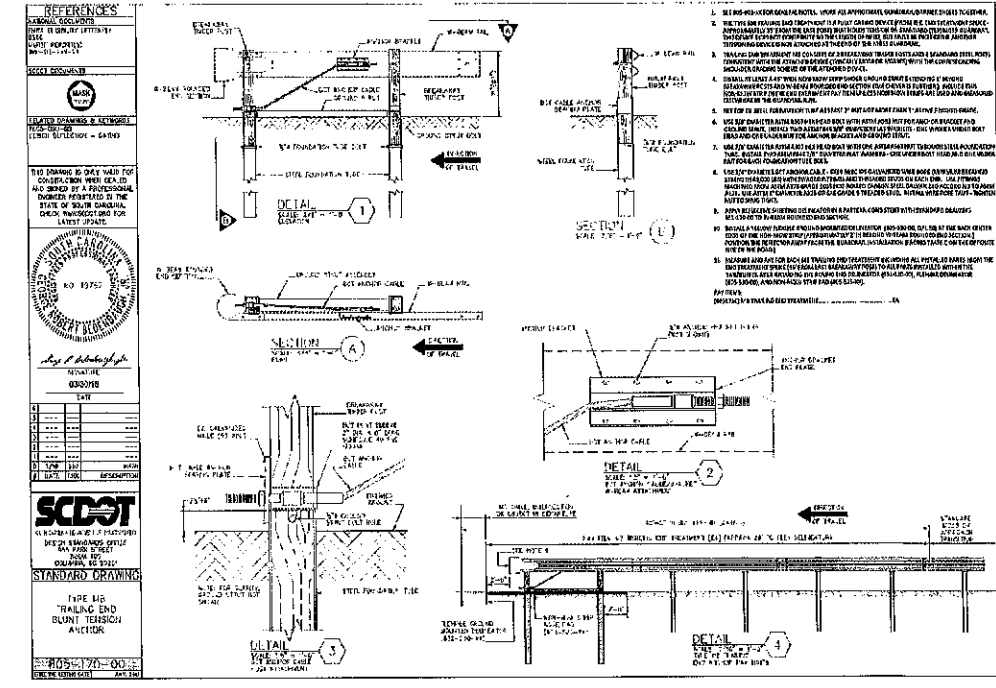
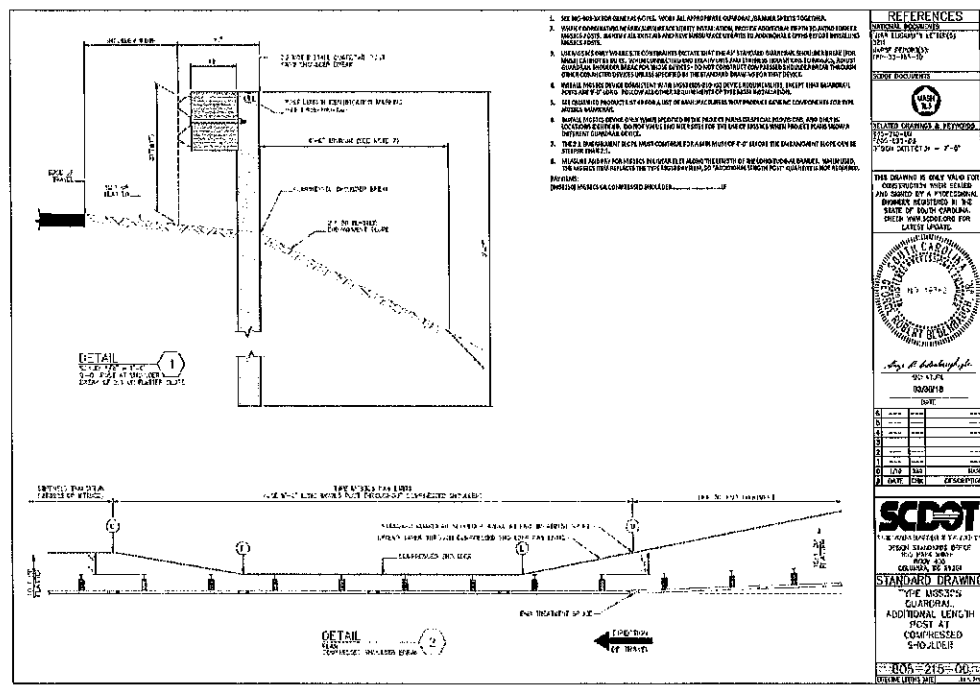
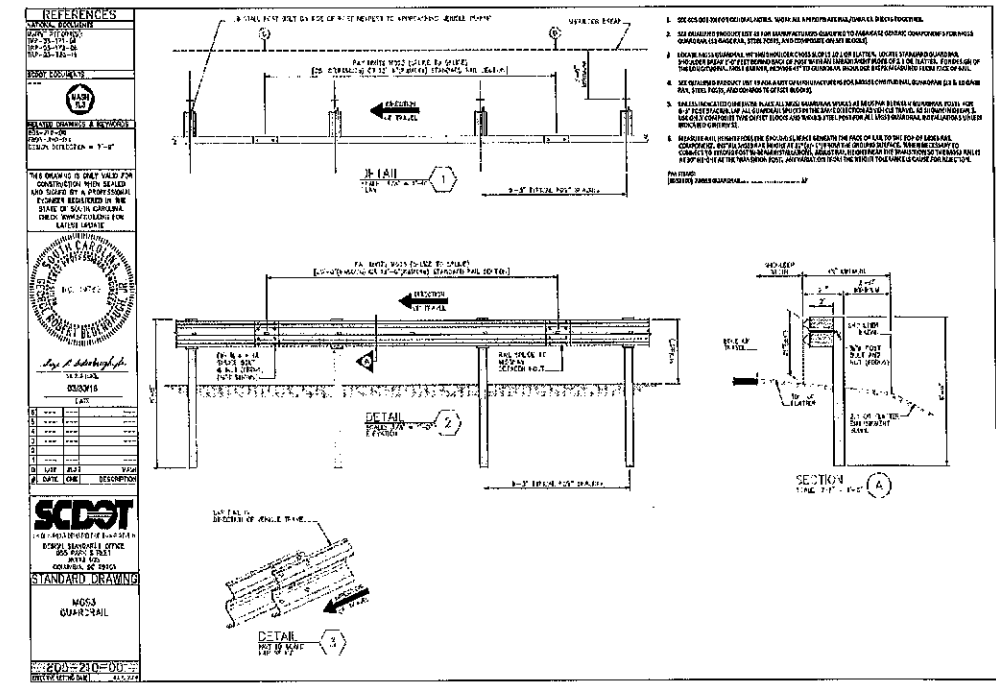
CALHOUN COUNTY  
 BANKS LANE  
 PLAN AND PROFILE SHEET



FED. RD. DIV. NO.	STATE	COUNTY	PROJECT ID	ROAD / ROUTE	SHEET NO.
3	SC	CALHOUN		BANKS LANE	13



**TYPICAL DRIVEWAY DETAIL**  
NTS



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3/6/2019

**INFRASTRUCTURE**  
CONSULTING & ENGINEERING  
CONSULTING ENGINEERS  
1021 BRIGGATE CIRCLE  
COLUMBIA, SOUTH CAROLINA 29210

FOR INFORMATION ONLY

SCALE: NTS

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CALHOUN COUNTY  
BANKS LANE  
DETAIL SHEET

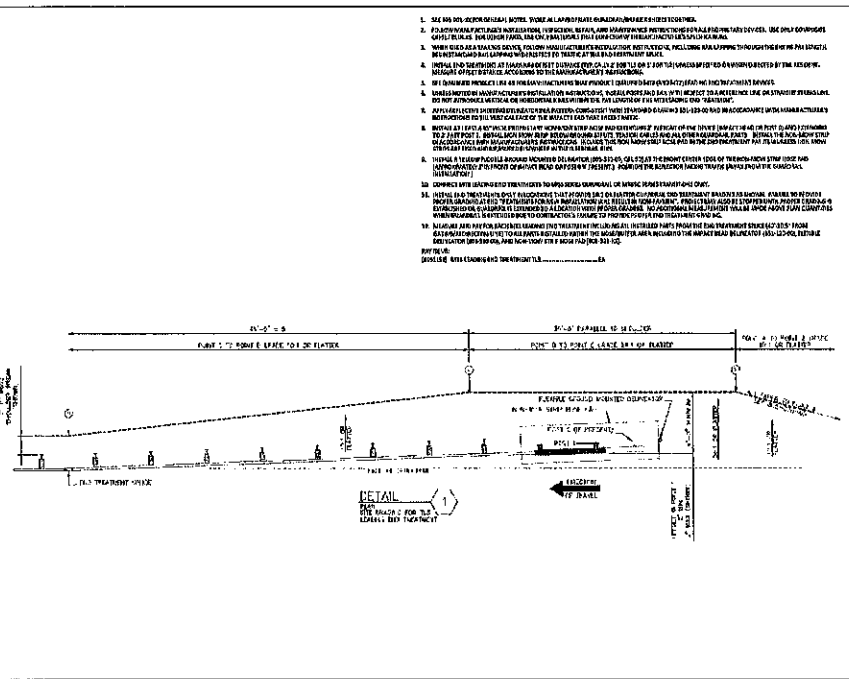
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3	SC	CALHOUN		BANKS LANE	14

**REFERENCES**

**SCDOT**  
SOUTH CAROLINA DEPARTMENT OF TRANSPORTATION  
DESIGN DIVISION  
1000 MARKET STREET  
COLUMBIA, SC 29201  
TEL: 803.737.7000  
WWW.SCDOT.GOV

**STANDARD DRAWING**

**SITE GRADING REQUIREMENTS FOR 11' AND 14' HRAINS IN 11.5' MTS**



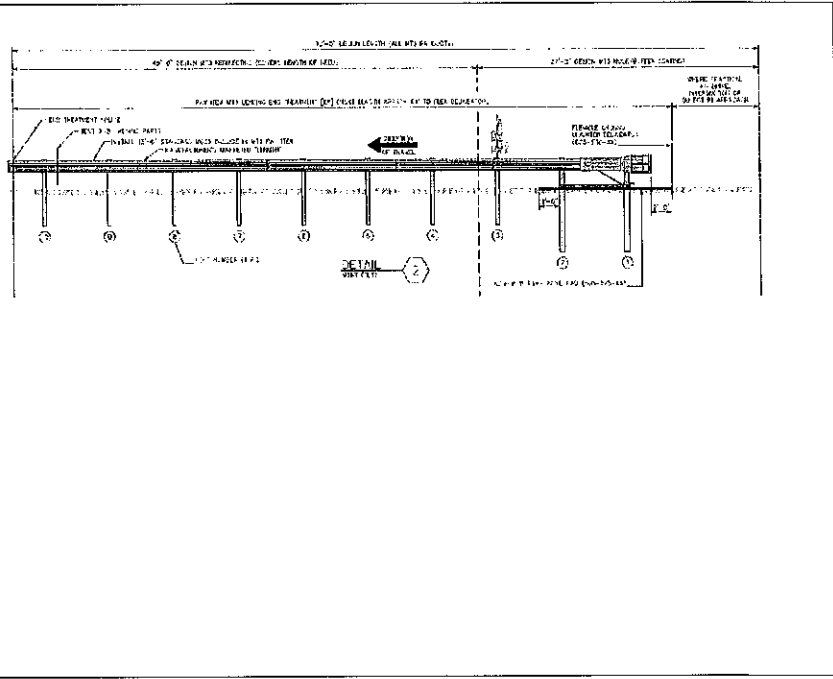
1. SEE THE GENERAL NOTES, SPECIFICATIONS, AND CONTRACT DOCUMENTS FOR ALL REQUIREMENTS.
2. THE GRADING SHALL BE DONE IN ACCORDANCE WITH THE SPECIFICATIONS AND CONTRACT DOCUMENTS.
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**REFERENCES**

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SOUTH CAROLINA DEPARTMENT OF TRANSPORTATION  
DESIGN DIVISION  
1000 MARKET STREET  
COLUMBIA, SC 29201  
TEL: 803.737.7000  
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**STANDARD DRAWING**

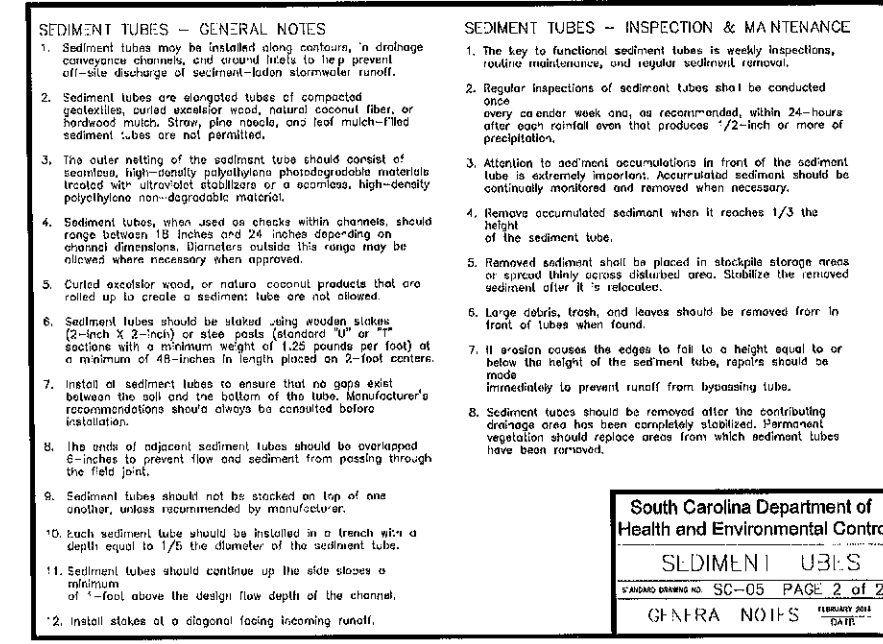
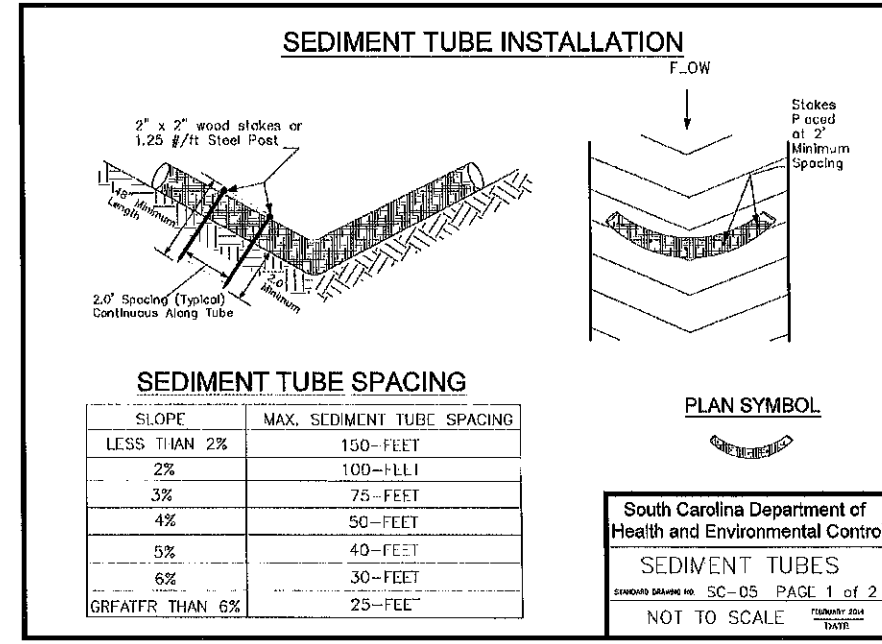
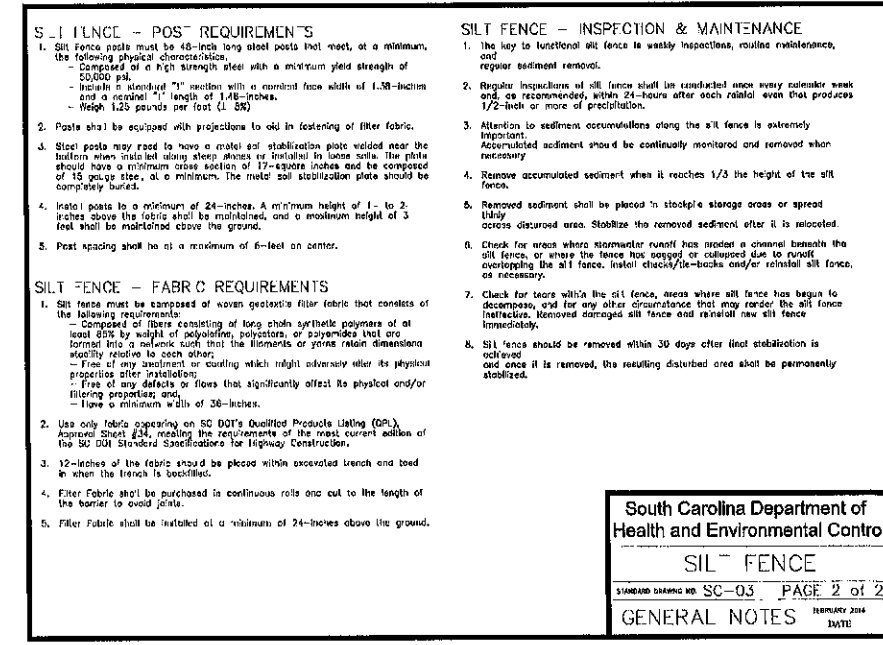
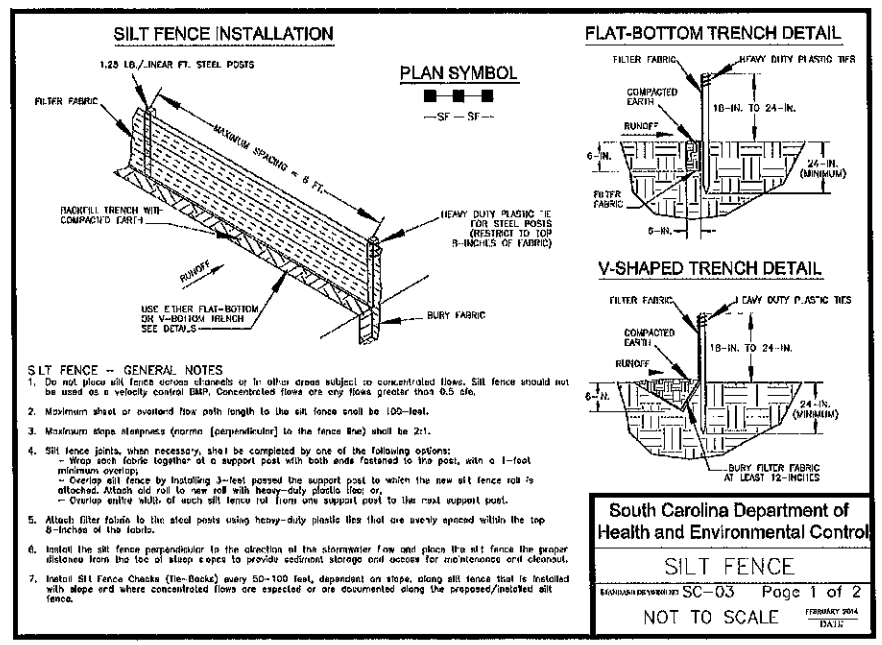
**TYPE M13 LEAVING END TREATMENT (R13)**



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3/6/2019

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SCALE: NTS	REV. NO.	BY	DATE	DESCRIPTION OF REVISION	7	
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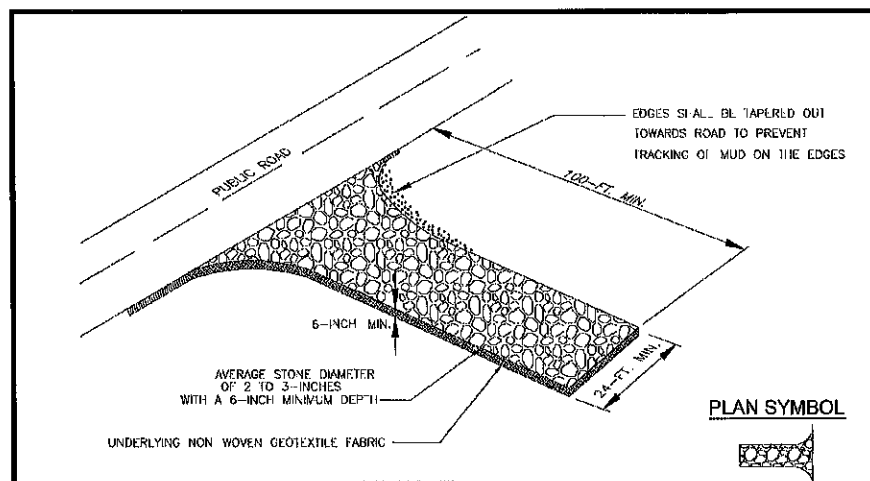
**INFRASTRUCTURE CONSULTING & ENGINEERING**  
CONSULTING ENGINEERS  
1021 BIRMGATE CIRCLE  
COLUMBIA, SOUTH CAROLINA 29210

FOR INFORMATION ONLY

SCALE: NTS

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CALHOUN COUNTY  
BANKS LANE  
DETAIL SHEET



SPECIFICATION	SIZE
ROCK PAD THICKNESS	6 INCHES
ROCK PAD WIDTH	24 FEET
ROCK PAD LENGTH	100 FEET
ROCK PAD STONE SIZE	D - 2-3 INCHES

South Carolina Department of Health and Environmental Control  
**CONSTRUCTION ENTRANCE**  
 STANDARD DRAWING NO. SC-06 PAGE 1 of 2  
 FEBRUARY 2014 DATE  
 NOT TO SCALE

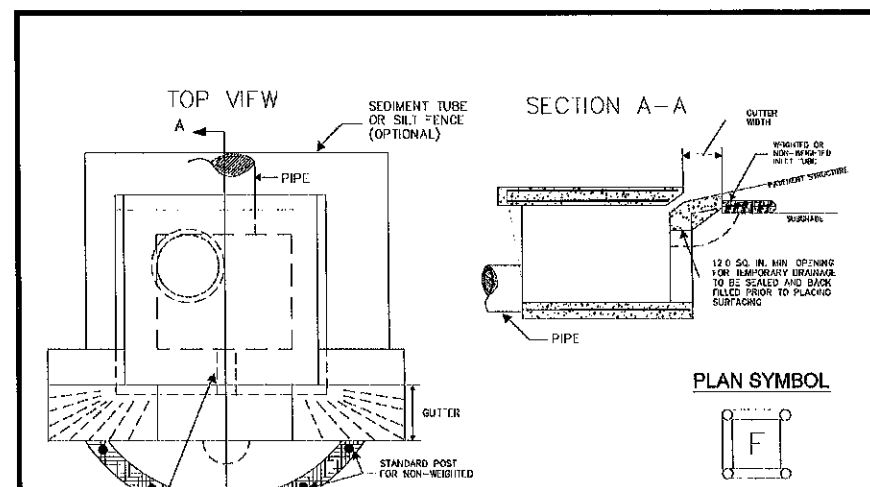
**CONSTRUCTION ENTRANCE - GENERAL NOTES**

1. Stabilized construction entrances should be used at all points where traffic will egress/ingress a construction site onto a public road or any impervious surfaces, such as parking lots.
2. Install a non-woven geotextile fabric prior to placing any stone.
3. Install a culvert pipe across the entrance when needed to provide positive drainage.
4. The entrance shall consist of 2-inch to 3-inch D50 stone placed at a minimum depth of 6-inches.
5. Minimum dimensions of the entrance shall be 24-foot wide by 100-foot long, and may be modified as necessary to accommodate site constraints.
6. The edges of the entrance shall be tapered out towards the road to prevent tracking of the edge of the entrance.
7. Divert all surface runoff and drainage from the stone pad to a sediment trap or basin or other sediment trapping structure.
8. Limestone may not be used for the stone pad.

**CONSTR. ENTRANCE - INSPECTION & MAINTENANCE**

1. The key to functional construction entrances is weekly inspections, routine maintenance, and regular sediment removal.
2. Regular inspections of construction entrances 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.
3. During regular inspections, check for mud and sediment buildup and pad integrity. Inspection frequencies may need to be more frequent during long periods of wet weather.
4. Reshape the stone pad as necessary for drainage and runoff control.
5. Wash or replace stones as needed and as directed by site inspector. The stone in the entrance should be washed or replaced whenever the entrance fails to reduce the amount of mud being carried off-site by vehicles. Frequent washing will extend the useful life of stone pad.
6. Immediately remove mud and sediment tracked or washed onto adjacent impervious surfaces by brushing or sweeping. Flushing should only be used when the water can be discharged to a sediment trap or basin.
7. During maintenance activities, any broken pavement should be repaired immediately.
8. Construction entrances should be removed after the site has reached final stabilization. Permanent vegetation should replace areas from which construction entrances have been removed, unless area will be converted to an impervious surface to serve post-construction.

South Carolina Department of Health and Environmental Control  
**CONSTRUCTION ENTRANCE**  
 STANDARD DRAWING NO. SC-06 PAGE 2 of 2  
 GENERAL NOTES DATE



South Carolina Department of Health and Environmental Control  
**Type F INLET TUBES**  
 STANDARD DRAWING NO. SC-11 PAGE 1 of 2  
 FEBRUARY 2014 DATE  
 NOT TO SCALE

**TYPE F - INLET TUBES INLET PROTECTION**

**GENERAL NOTES**

1. Inlet tubes should be composed of compacted geotextiles, curled excelsior wood, natural coconut fibers, a hardwood mulch, or a mix of these materials enclosed by a flexible netting material.
2. Inlet tubes should utilize an outer netting that consists of seamless, high-density polyethylene photodegradable material treated with ultraviolet stabilizers or a seamless, high-density polyethylene non-degradable material. Curled wood excelsior fiber, or natural coconut fiber rolled erosion control products rolled up to create an inlet tube device are not allowed.
3. Do not use straw, straw fiber, straw bales, pine needles, or leaf mulch as fill material within inlet tubes.
4. Weighted inlet tubes must be capable of staying in place without external stabilization measures and may have a weighted inner core or other weighted mechanism to keep them in place.
5. Install weighted tubes lying flat on the ground, with no gaps between the underlying surface and the inlet tube. Do not stack inlet tubes. Do not completely block inlet with tube.
6. Non-weighted inlet tubes require staking or other stabilization methods to keep them safely in place.
7. Overflow or overlapping of inlet tubes must be allowed to flow into inlet unobstructed.
8. To avoid possible flooding, two or three concrete cinder blocks may be placed between the tube and the inlet.

**INSPECTION AND MAINTENANCE**

1. The key to functional inlet protection is weekly inspection, routine maintenance, and regular sediment removal.
2. Regular inspections of a inlet protection 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.
3. Attention to sediment accumulations in front of the inlet protection is extremely important. Accumulated sediment should be continuously monitored and removed when necessary.
4. Remove accumulated sediment when it reaches 1/3 the height of the blocks. If a pump is used, sediment should be removed when it fills approximately 1/3 the depth of the hole.
5. Removed sediment shall be placed in stockpile storage areas or spread thinly across disturbed area. Stabilize the removed sediment after it is relocated.
6. Large debris, trash, and leaves should be removed from in front of tubes when found.
7. Replace inlet tube when damaged or as recommended by manufacturer's specifications.
8. Inlet protection structures should be removed after the disturbed areas are permanently stabilized. Remove all construction material and sediment, and dispose of them properly. Grade the disturbed area to the elevation of the drop inlet structure crest. Stabilize all bare areas immediately.

South Carolina Department of Health and Environmental Control  
**Type F INLET TUBES**  
 STANDARD DRAWING NO. SC-11 PAGE 2 of 2  
 GENERAL NOTES DATE

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 3/6/2019

**INFRASTRUCTURE**  
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 CONSULTING ENGINEERS  
 1021 BRARGATE CIRCLE  
 COLUMBIA, SOUTH CAROLINA 29210

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SCALE: NTS

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REV. NO.	BY	DATE	DESCRIPTION OF REVISION

CALHOUN COUNTY

BANKS LANE

DETAIL SHEET



FED. RD. DIST. NO.	STATE	COUNTY	PROJECT ID	ROAD / ROUTE NO.	SHEET NO.
3	SC	CALHOUN		BANKS LANE	UC1

**LEGEND**

- SEDIMENT TUBE
- TYPE F INLET FILTERS (NON-WEIGHTED DURING CONSTRUCTION. WEIGHTED ONCE BASE COURSE IS PLACED.)
- PROPOSED WATER LINE
- EXISTING PAVEMENT REMOVAL

**UTILITY OWNERS**

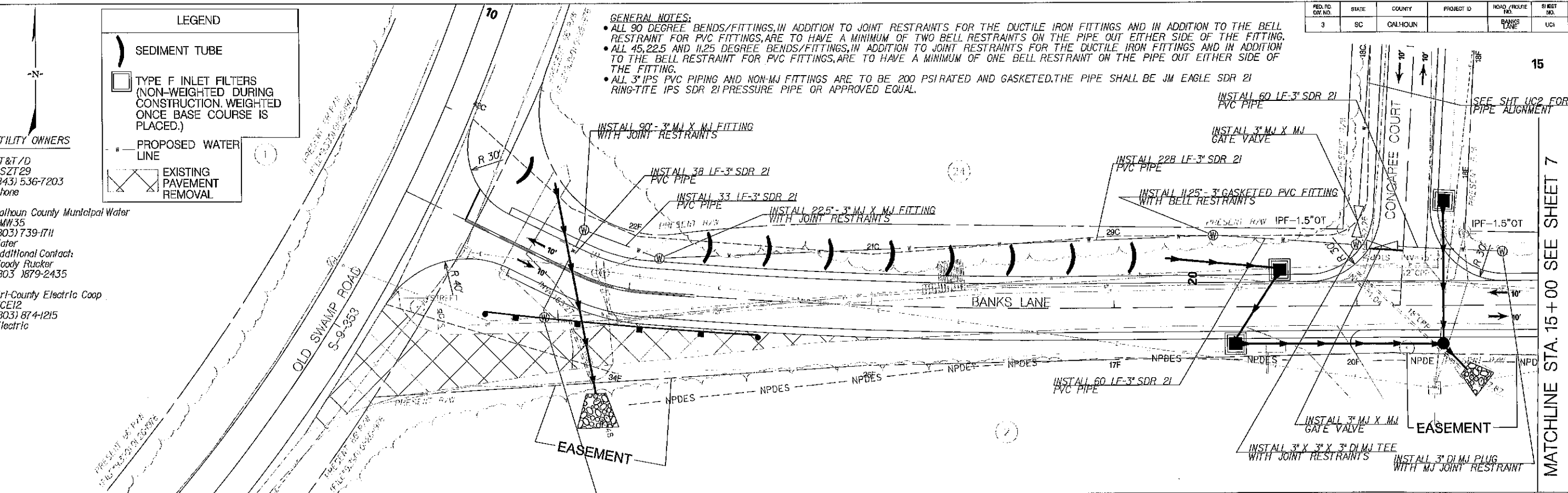
AT&T/D  
BSZT29  
(843) 536-7203  
Phone

Calhoun County Municipal Water  
CMW35  
(803) 739-1711  
Water  
Additional Contact:  
Woody Rucker  
(803) 1879-2435

Tri-County Electric Coop  
TCE12  
(803) 874-1215  
Electric

**GENERAL NOTES:**

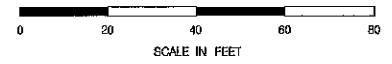
- ALL 90 DEGREE BENDS/FITTINGS, IN ADDITION TO JOINT RESTRAINTS FOR THE DUCTILE IRON FITTINGS AND IN ADDITION TO THE BELL RESTRAINT FOR PVC FITTINGS, ARE TO HAVE A MINIMUM OF TWO BELL RESTRAINTS ON THE PIPE OUT EITHER SIDE OF THE FITTING.
- ALL 45, 22.5 AND 11.25 DEGREE BENDS/FITTINGS, IN ADDITION TO JOINT RESTRAINTS FOR THE DUCTILE IRON FITTINGS AND IN ADDITION TO THE BELL RESTRAINT FOR PVC FITTINGS, ARE TO HAVE A MINIMUM OF ONE BELL RESTRAINT ON THE PIPE OUT EITHER SIDE OF THE FITTING.
- ALL 3" IPS PVC PIPING AND NON-MJ FITTINGS ARE TO BE 200 PSIRATED AND GASKETED. THE PIPE SHALL BE JM EAGLE SDR 21 RING-TITE IPS SDR 21 PRESSURE PIPE OR APPROVED EQUAL.



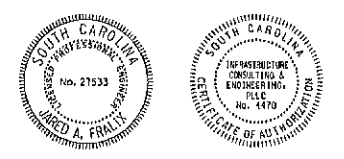
CUT EXISTING 3" PVC WATER LINE  
INSTALL 90° - 3" MJ X MJ FITTING WITH JOINT RESTRAINTS  
INSTALL 45' - 3" MJ X MJ FITTING (CAP OR GROUT UNUSED/ABANDONED EXISTING 3" WATER LINE)

MATCHLINE STA. 15+00 SEE SHEET 7

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CONSULTING ENGINEERS  
1021 BRIDGATE CIRCLE  
COLUMBIA, SOUTH CAROLINA 29210



SCALE: 1" = 20'

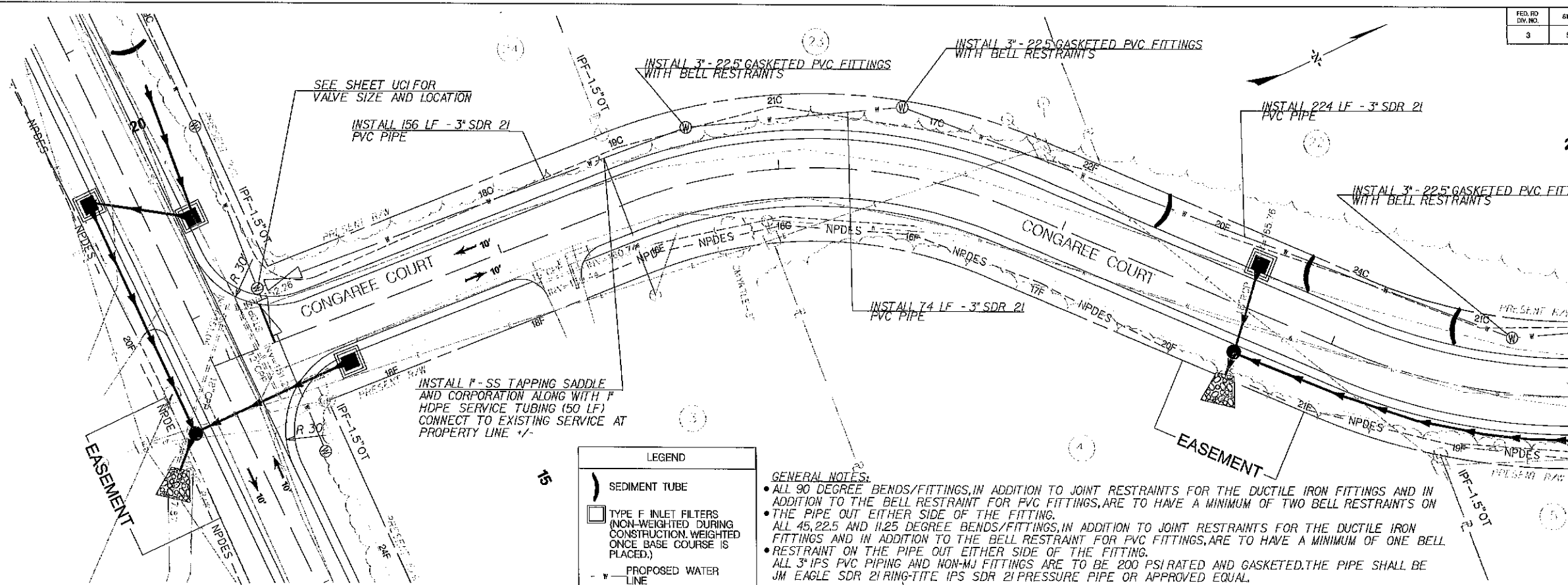
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REV. NO.	BY	DATE	DESCRIPTION OF REVISION

CALHOUN COUNTY

BANKS LANE

UTILITY CONSTRUCTION SHEET

FED. RD. DIST. NO.	STATE	COUNTY	PROJECT ID	ROAD / ROUTE NO.	SHEET NO.
3	SC	CALHOUN		BANKS LANE	UC2



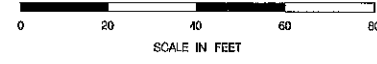
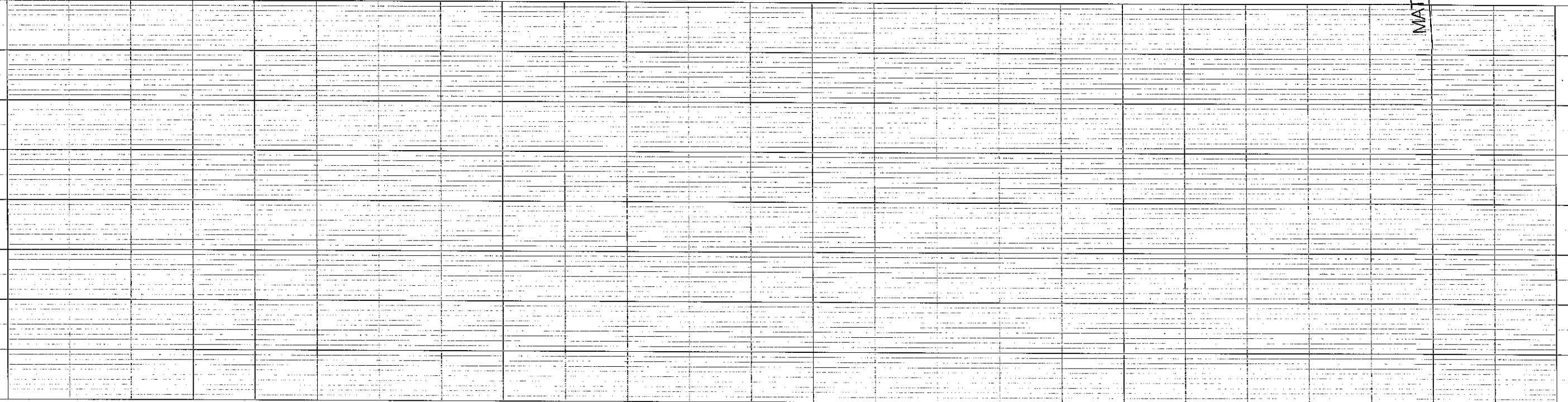
**LEGEND**

- SEDIMENT TUBE
- TYPE F INLET FILTERS (NON-WEIGHTED DURING CONSTRUCTION. WEIGHTED ONCE BASE COURSE IS PLACED.)
- PROPOSED WATER LINE

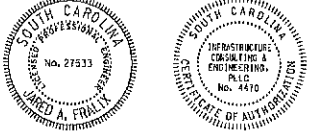
**GENERAL NOTES:**

- ALL 90 DEGREE BENDS/FITTINGS, IN ADDITION TO JOINT RESTRAINTS FOR THE DUCTILE IRON FITTINGS AND IN ADDITION TO THE BELL RESTRAINT FOR PVC FITTINGS, ARE TO HAVE A MINIMUM OF TWO BELL RESTRAINTS ON THE PIPE OUT EITHER SIDE OF THE FITTING.
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MATCHLINE STA. 25+00 SEE SHEET UC3  
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**INFRASTRUCTURE CONSULTING & ENGINEERING**  
CONSULTING ENGINEERS  
1021 BRIMGATE CIRCLE  
COLUMBIA, SOUTH CAROLINA 29210



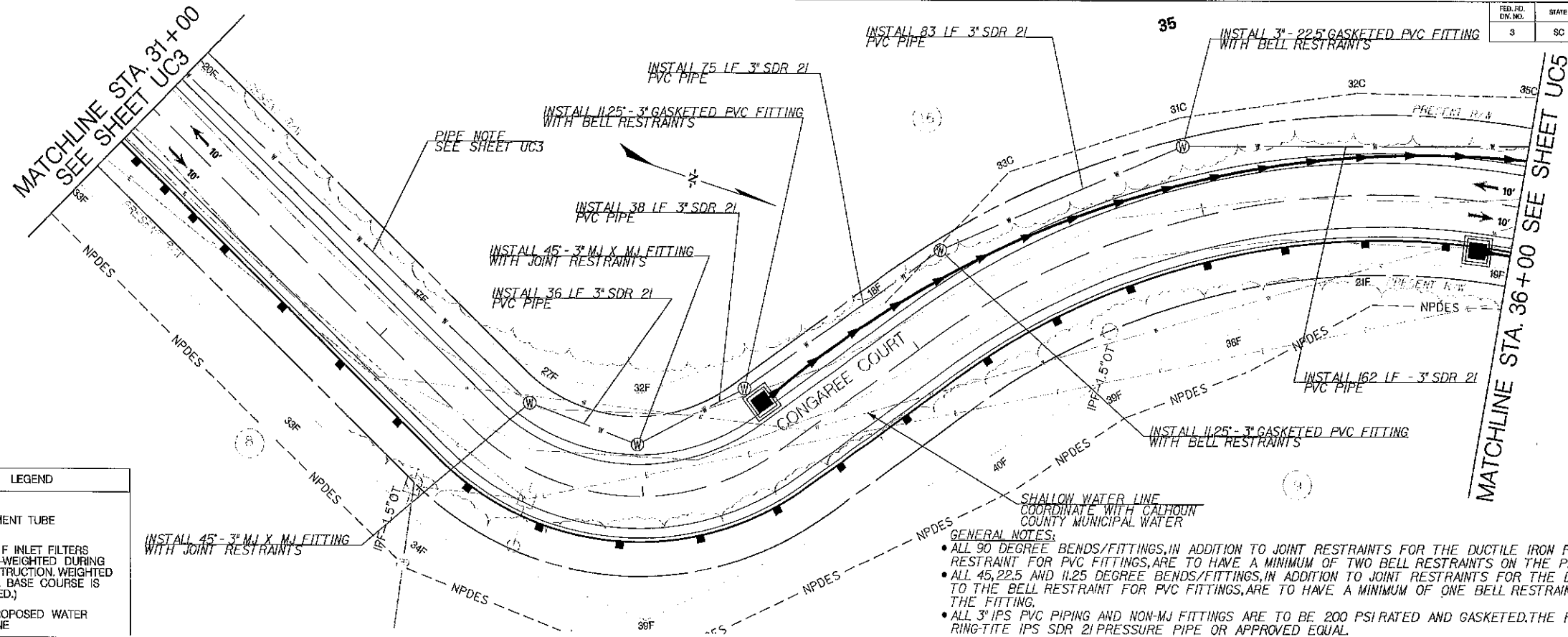
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CALHOUN COUNTY  
BANKS LANE  
UTILITY CONSTRUCTION SHEET

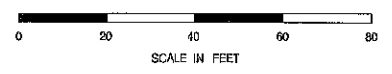
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3/6/2019





LEGEND	
	SEDIMENT TUBE
	TYPE F INLET FILTERS (NON-WEIGHTED DURING CONSTRUCTION. WEIGHTED ONCE BASE COURSE IS PLACED.)
	PROPOSED WATER LINE

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 CONSULTING ENGINEERS  
 1021 BIRMGATE CIRCLE  
 COLUMBIA, SOUTH CAROLINA 29210

**SOUTH CAROLINA**  
 PROFESSIONAL ENGINEER  
 No. 27533  
 JOHN A. FRALIX

**SOUTH CAROLINA**  
 PROFESSIONAL ENGINEER  
 INFRASTRUCTURE CONSULTING & ENGINEERING, P.L.L.C.  
 No. 4578  
 STATE OF SOUTH CAROLINA

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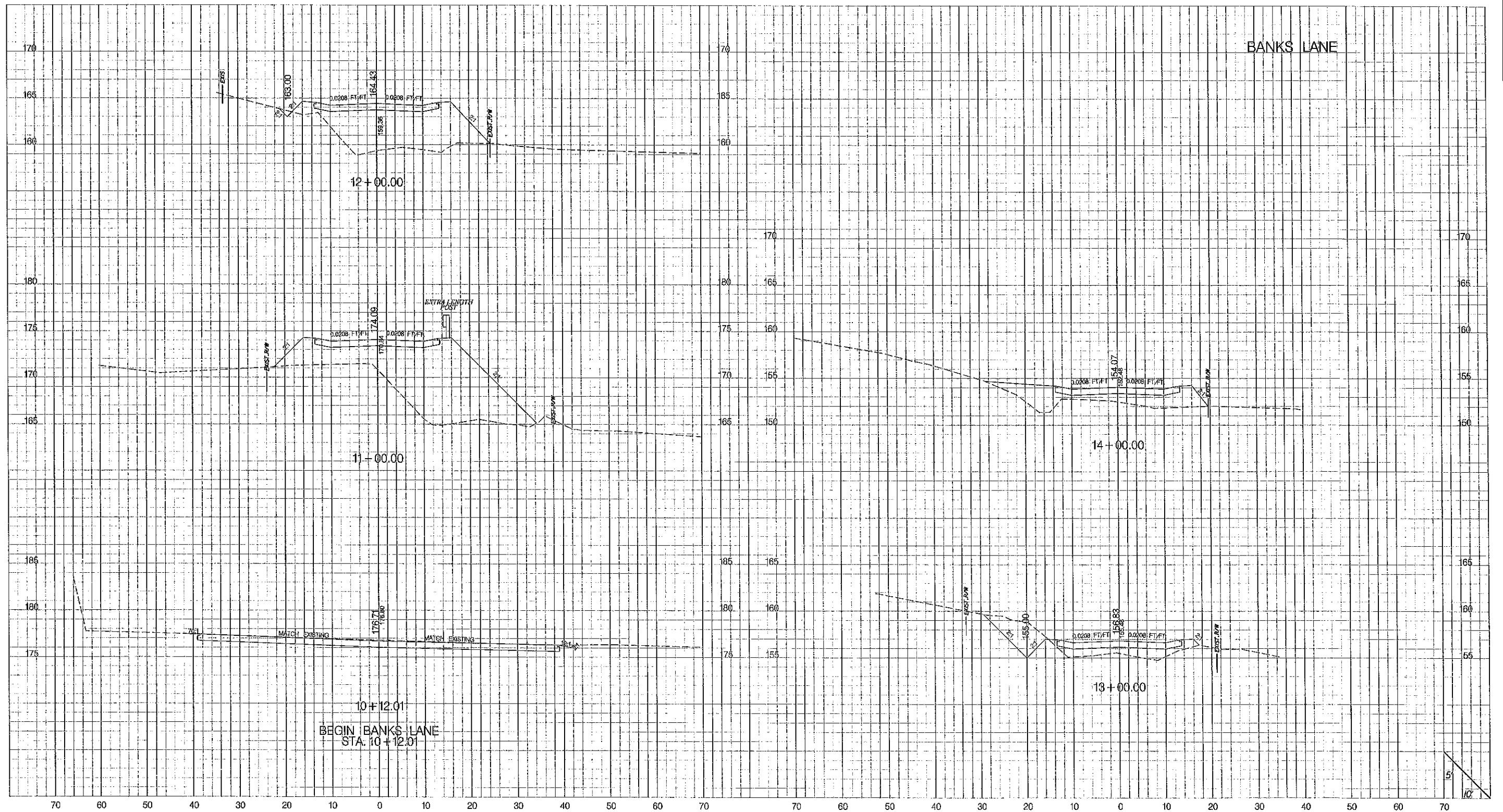
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BANKS LANE
UTILITY CONSTRUCTION SHEET

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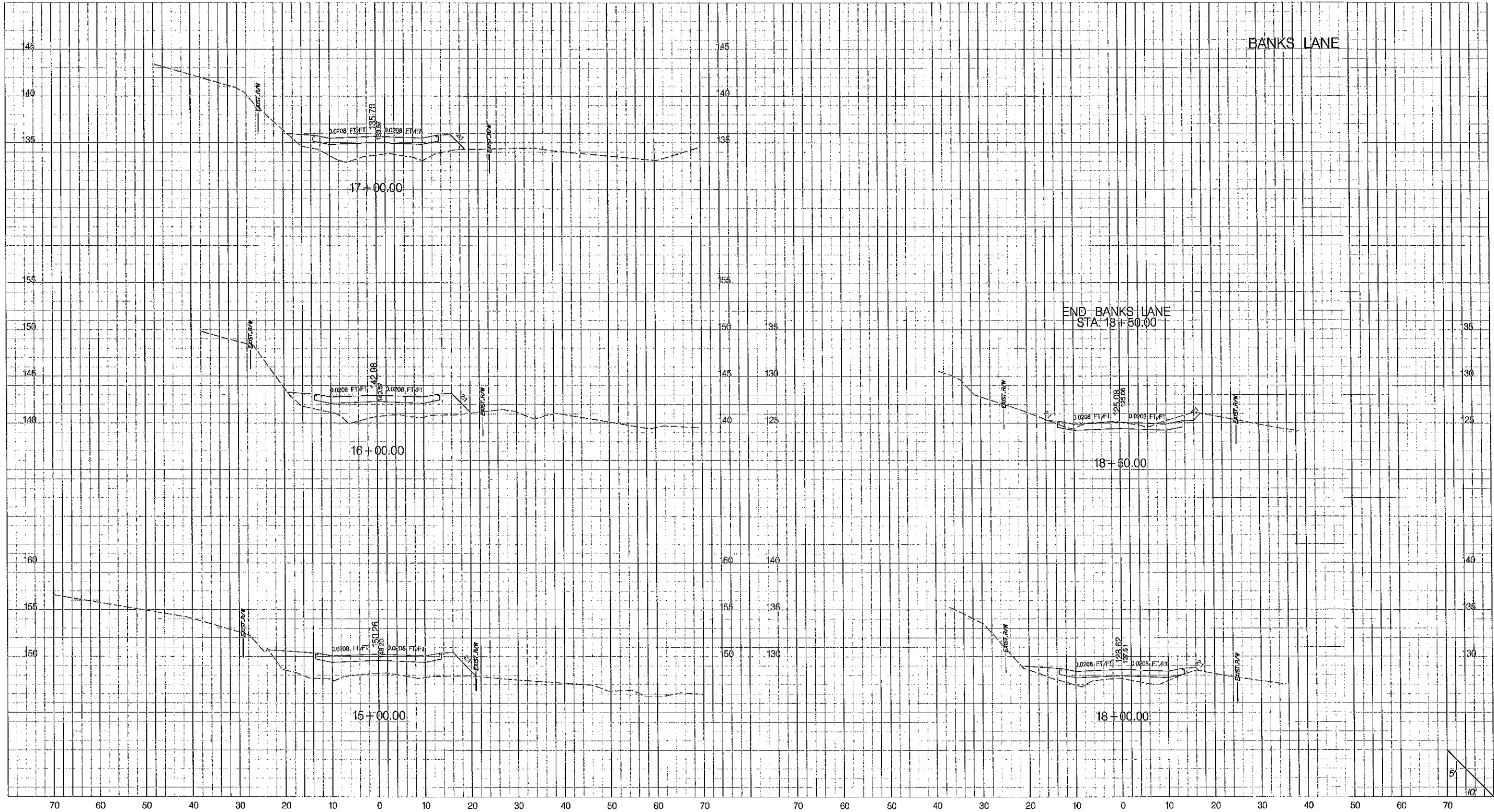


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CALHOUN COUNTY CTC  
BANKS LANE  
**INFRASTRUCTURE**  
CONSULTING & ENGINEERING  
CROSS SECTIONS

FED. RD. DIV. NO.	STATE	COUNTY	PROJECT ID	ROAD / ROUTE NO.	SHEET NO.
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MARK D. LIVERSON  
No. 26135  
SOUTH CAROLINA  
PROFESSIONAL ENGINEER

INFRASTRUCTURE CONSULTING & ENGINEERING  
No. 4476  
SOUTH CAROLINA  
PROFESSIONAL ENGINEER

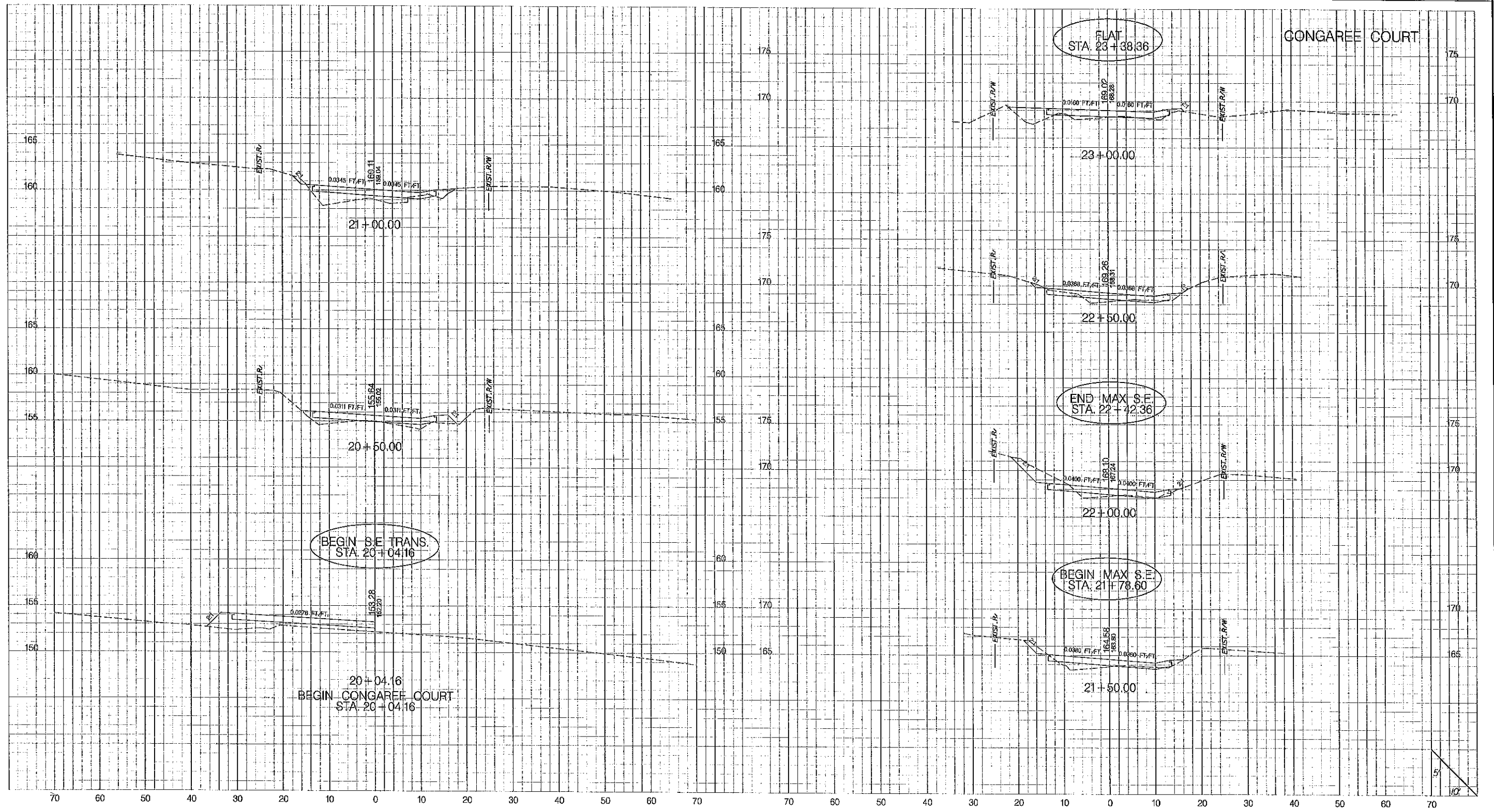
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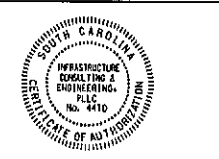
CALHOUN COUNTY CTC  
BANKS LANE

**INFRASTRUCTURE**  
CONSULTING & ENGINEERING

CROSS SECTIONS



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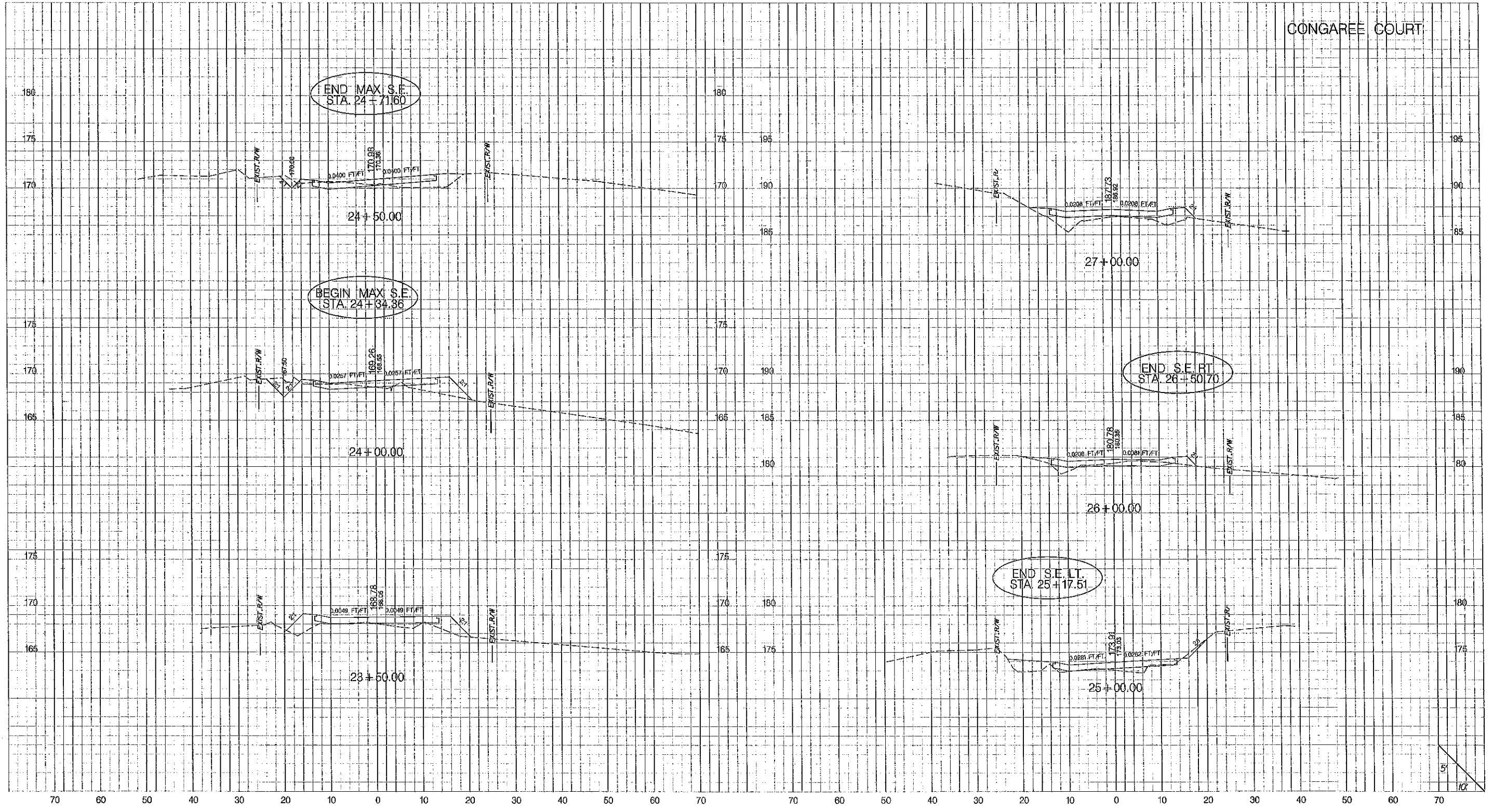
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CALHOUN COUNTY CTC  
CONGAREE COURT  
**INFRASTRUCTURE**  
CONSULTING & ENGINEERING

CROSS SECTIONS

FED. RD. DIV. NO.	STATE	COUNTY	PROJECT ID	ROAD / ROUTE NO.	SHEET NO.
3	SC	CALHOUN		CONGAREE COURT	X4

CONGAREE COURT



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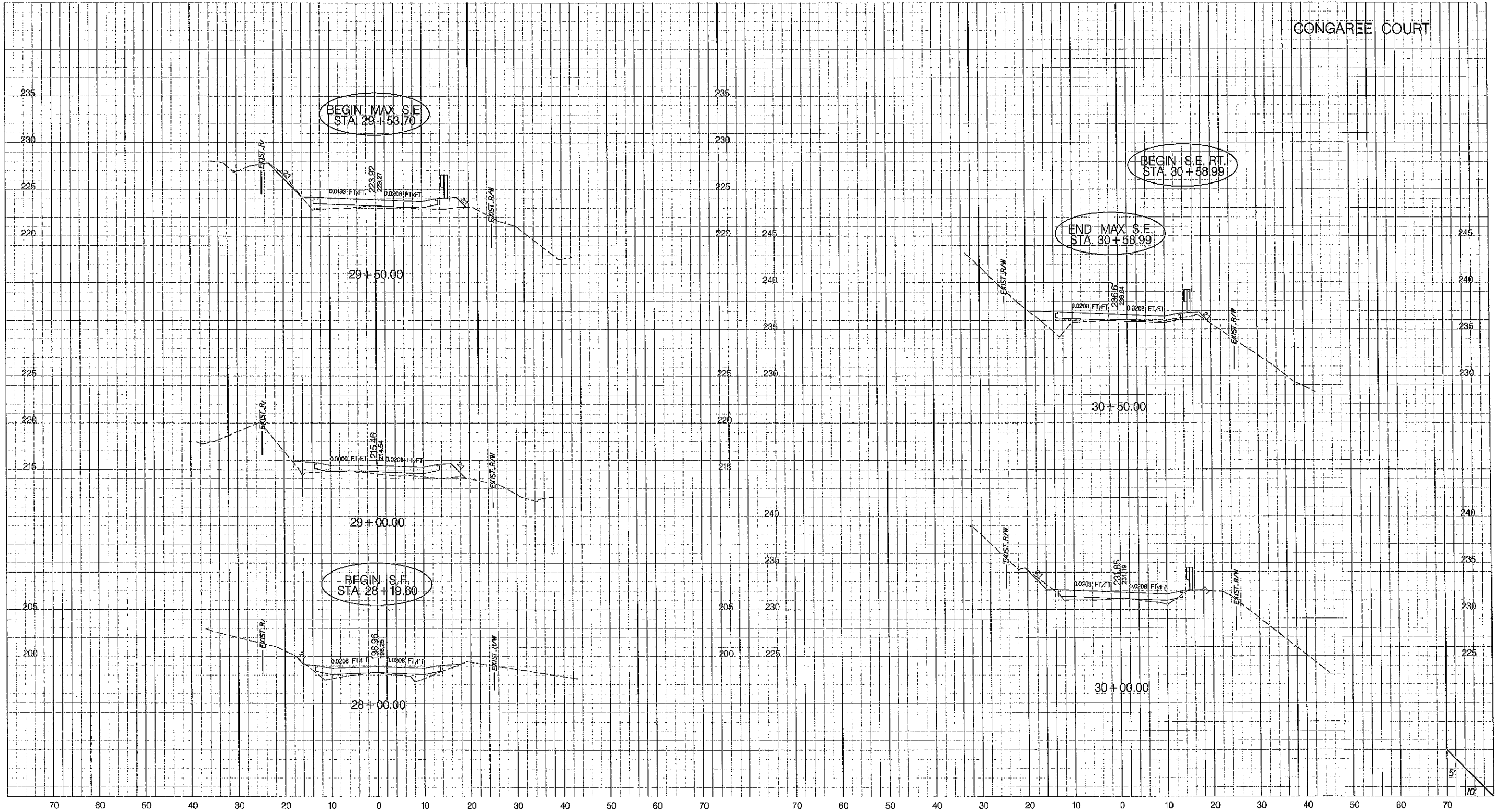
CALHOUN COUNTY CTC  
CONGAREE COURT

**INFRASTRUCTURE**  
CONSULTING & ENGINEERING

CROSS SECTIONS

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CONGAREE COURT

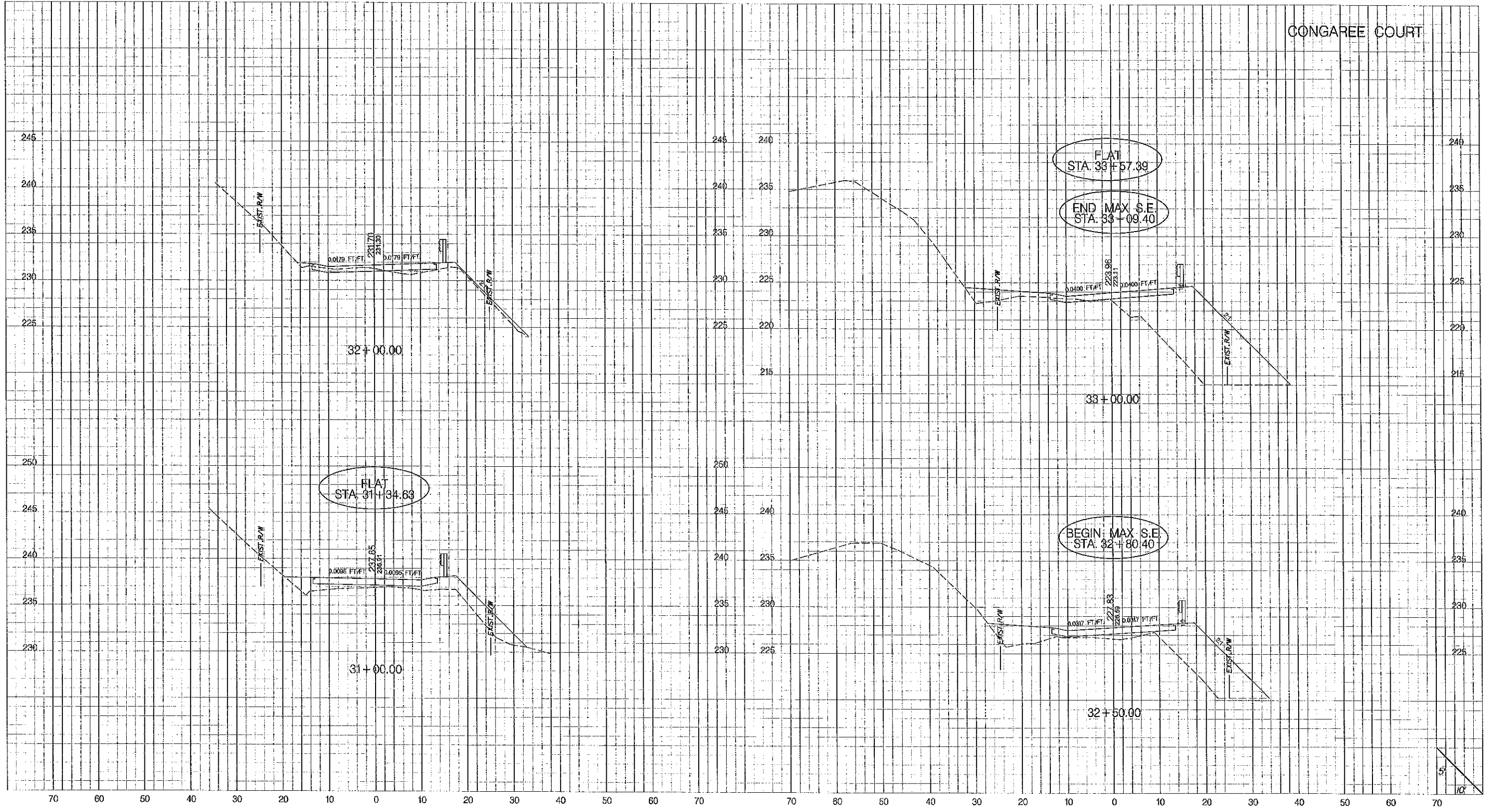


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3/6/2019

	7			<p>CALHOUN COUNTY CTC CONGAREE COURT</p> <p><b>INFRASTRUCTURE</b> CONSULTING &amp; ENGINEERING</p> <p>CROSS SECTIONS</p>	
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SCALE: H: 1"=10' V: 1"=6'		REV. NO.	BY	DATE	DESCRIPTION OF REVISION

FED. RD. DIST. NO.	STATE	COUNTY	PROJECT NO.	ROAD / ROUTE NO.	SHEET NO.
3	SC	CALHOUN		CONGAREE COURT	X6

CONGAREE COURT

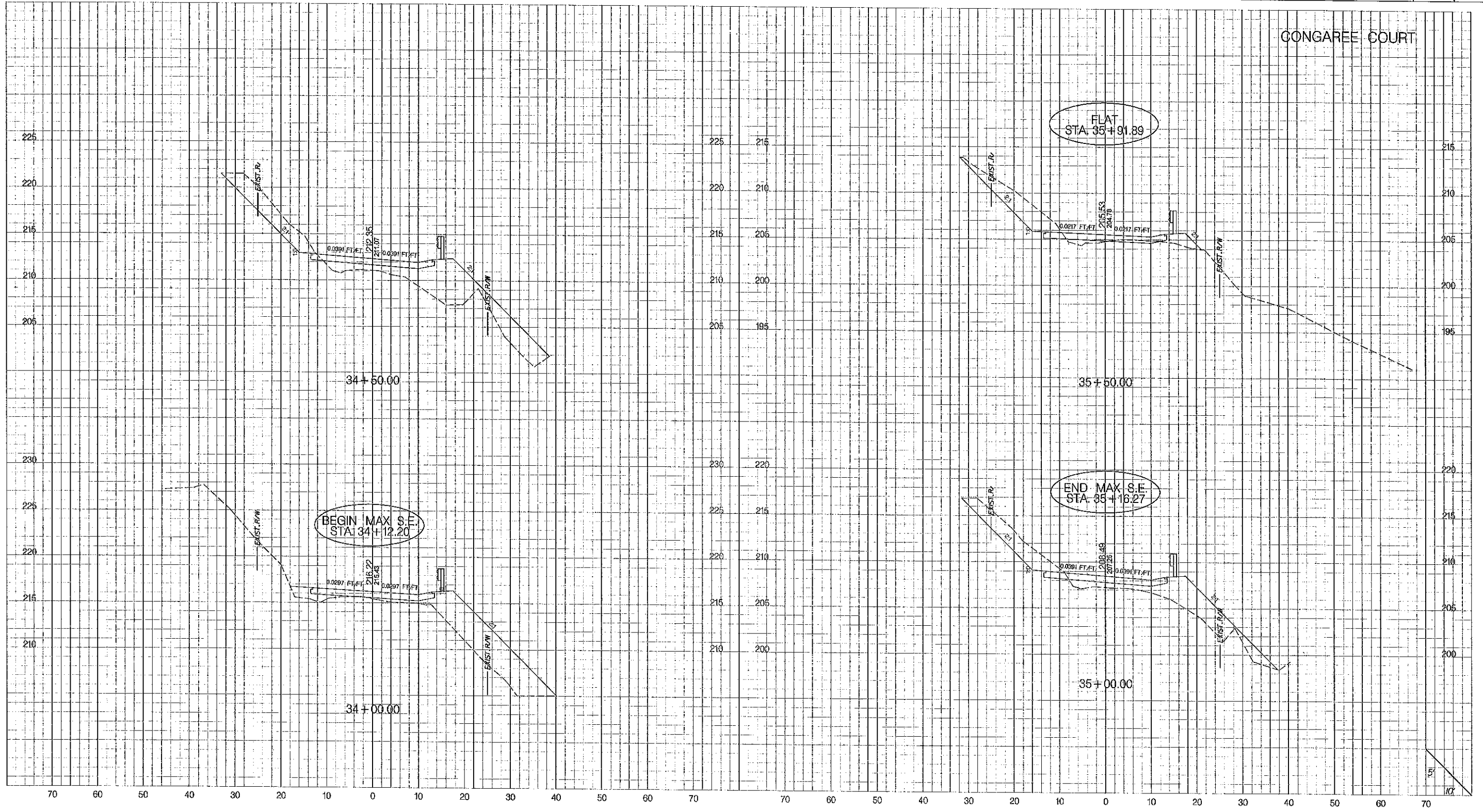


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<p>SCALE: H: 1"=10' V: 1"=5'</p>		<p>CROSS SECTIONS</p>	
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FED. RD. DIST. NO.	STATE	COUNTY	PROJECT ID	ROAD / ROUTE NO.	SHEET NO.
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CONGAREE COURT



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3/6/2019

MARK O. LIVINGSTON  
No. 2635

INFRASTRUCTURE CONSULTING & ENGINEERING  
No. 4420

SCALE: H: 1" = 10' V: 1" = 6'

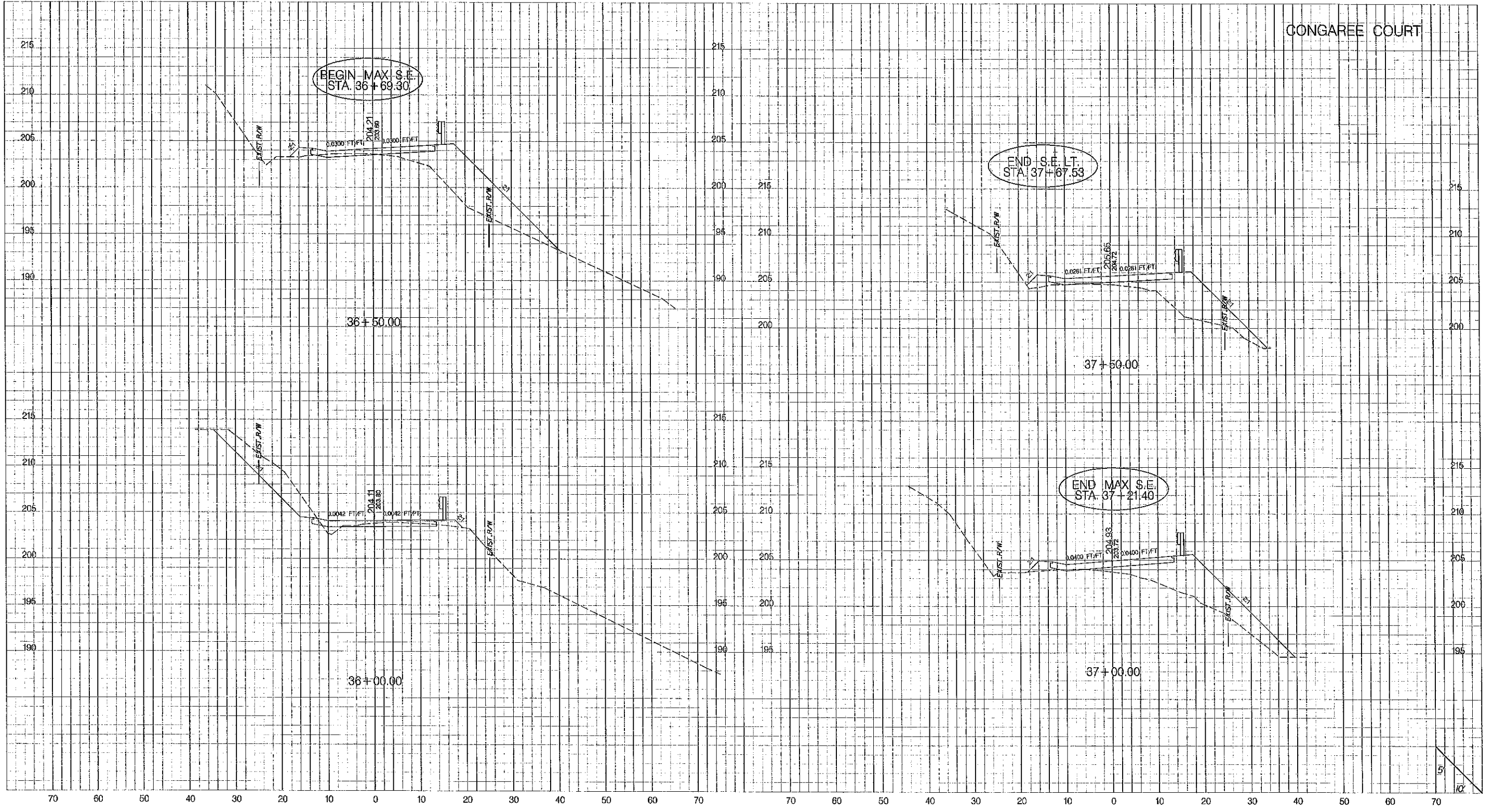
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CALHOUN COUNTY CTC  
CONGAREE COURT

**INFRASTRUCTURE**  
CONSULTING & ENGINEERING

CROSS SECTIONS

CONGAREE COURT

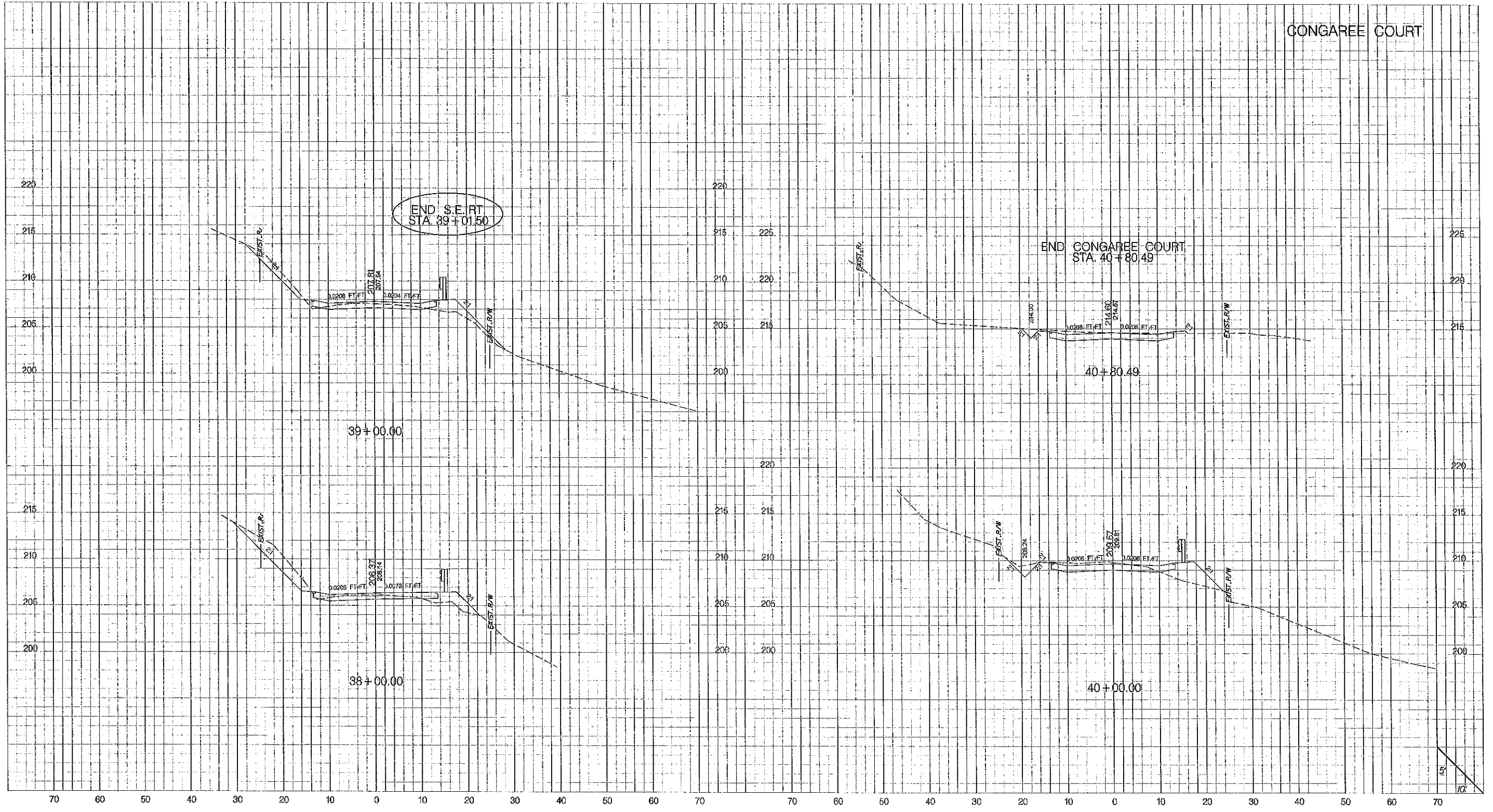


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		<p>CALHOUN COUNTY CTC CONGAREE COURT</p> <p><b>INFRASTRUCTURE</b> CONSULTING &amp; ENGINEERING</p>	
<p>SCALE: H: 1" = 10' V: 1" = 5'</p>		<p>CROSS SECTIONS</p>	
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CONGAREE COURT



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		<p>CALHOUN COUNTY CTC CONGAREE COURT</p> <p><b>INFRASTRUCTURE</b> CONSULTING &amp; ENGINEERING</p>	
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