

INDEX

<u>SHEET NO.</u>	<u>DESCRIPTION</u>
1- A	COVER SHEET
1	TITLE SHEET
2	TYPICAL CROSS SECTION
-----	ENDWALLS, CATCH BASINS, ETC.
-----	STANDARD SUPERELEVATION
-----	PLAN AND PROFILE
-----	CULVERT AND BRIDGE
-----	STRUCTURE EXCAVATION
-----	ROADWAY CROSS SECTIONS
-----	PIT CROSS SECTIONS
-----	DITCH AND RAMP CROSS SECTIONS
-----	OVERHAUL DIAGRAMS
-----	MISCELLANEOUS
-----	RECAPITULATION SHEET "B"
-----	RECAPITULATION SHEET "C"

FINAL CONSTRUCTION PLANS

22.537
22.537.1
FILE NO. 2245.535 F.A.PROJ. NO. BRF-121(76)

COUNTY GEORGETOWN / WILLIAMSBURG

ROUTE NO. SC 51

FROM APPROACHES TO SIX MILE CREEK
LANES CREEK
SMITHS BRANCH

CONTRACTOR L. DEAN WEAVER CONST. TYPE OF CONSTRUCTION GRADING, DRAINAGE
CO., INC. PAMPLICO SC AND ASPHALT SURFACING

RESIDENT ENGINEER C H POWELL DISTRICT ENGINEER A R CATOE

PROGRESS DATA

CONTRACT AWARDED NOVEMBER 25 1987

WORK BEGAN FEBRUARY 25 1988

MAINTENANCE BEGAN MARCH 2 1990

PROJECT ACCEPTED MARCH 1 1990

NOTES TO RESIDENT ENGINEER: *NOTES ON RECAPITULATION SHEETS SHOULD BE READ CAREFULLY AND COMPLIED WITH IN FULL. THE RESIDENT ENGINEER SHOULD PERSONALLY CHECK THE PLANS AGAINST THE FOLLOWING LIST—*

1. GRADE POINTS OF ROADWAY SHOWN ON CROSS SECTIONS
2. CORRECTED BALANCES SHOWN ON PROFILE WITH BALANCE POINTS FOR OVERHAUL
3. PITS, DITCHES, AND RAMPS SHOWN ON PLANS
4. PLANS REFERENCED TO NOTES
5. CORRECT DRAINAGE STRUCTURES SHOWN ON PLANS
6. SOURCE OF RELAID PIPE SHOWN ON PLANS
7. RELOCATIONS AND GRADE CHANGES SHOWN ON PLAN & PROFILE SHEETS
8. EXCEPTIONS SHOWN ON PLANS, PROFILE, AND CROSS SECTIONS
9. SKETCHES AND COMPUTATION FOR ALL IRREGULAR ITEMS SUBMITTED
10. QUANTITIES PROPERLY SECTIONALIZED-RECAP SHEETS "B" & "C" FOR EACH SECTION
11. DETAIL LARGE SCALE LAYOUTS FOR CITY WORK
12. SUFFICIENT DATA SHOWN IN NOTES OR ON DETAIL LAYOUT TO CHECK MEASUREMENT OF CURB AND GUTTER, DRIVEWAYS, AND SIDEWALKS
13. OVERRUNS AND UNDERRUNS FULLY EXPLAINED
14. THE FOLLOWING DATA INKED ON FRONT OF EACH NOTE BOOK —
FULL CAPTION (AS SHOWN BY ORIGINAL PLANS), BOOK NUMBER, CONTENT, CONTRACTOR,
RESIDENT ENGINEER, DATE COMPLETED, TYPE OF ROAD

[illegible]

THE FINAL NOTE BOOKS PROPERLY MARKED AND DESCRIBED ARE AS FOLLOWS:

BOOK NO. 1

BOOK NO. 2

BOOK NO. 3

BOOK NO. 4 _____

BOOK NO. 5 _____

BOOK NO. 6 990.1

BOOK NO 7

DATA CORRECT

QUANTITIES CHECKED

C. H. Daniels 9-490
RESIDENT ENGINEER DATE

<i>J. M. Brunson</i> <i>B4</i> <i>W. A. Goff</i>	<i>5-28-91</i>
	DATE

TABLE OF OVERRUNS AND UNDERRUNS

PRICE OF OVERLAYS AND UNDERLAYS									
ITEM.	UNIT	CONTRACT QUANTITIES	RES. ENGR. FINAL QUAN.	PAY QUAN. COL. OFFICE	OVERRUN	UNDERRUN	EXPLANATION		
EARTHWORK									
C & G WITHIN R.O.W.	LS	#	162,000.00	162,000.00				Prices	
TRAFFIC CONTROL	LS	#	4,900.00	4,900.00					
C & G OF PITS									
REMOVAL & DISPOSAL OF EXISTING PAVT	S.Y	2236	8,624		6,388			#3.00	
UNCLASSIFIED EXCAVATION	C.Y	13,992	19,168	19,095	5476			6.00	
BORROW	C.Y	33,191	38,287	37,848	5,096			7.00	
EXCAVATION FOR STRUCTURES					4654				
SCAFFOLDING, MIXING, SHARPING	MSY	9.661	6.299			3,362		490.00	
OVERHAUL									
SELECTED MATERIAL FOR SHDS									
BASE COURSE									
STABILIZED AGG. BASE	S.Y	12,520	10,586.6	10,607		1913		6.00	
ASPHALT AGG.	TON	1,771	1,626.24			144.06		29.95	
SCARIFYING MIXING ETC.									
ADD " " "									
ASPH. CEM. @ 132.10	TON	0		27.878					
ASPH. CEM. @ 120.10	TON	0		50.873					
SURFACE COURSE									
ASPH. CEM. @ 135.15	TON	0		254.267	87,224				
ASPHALT CEMENT IN PAVING MIX	TON	297	389.887	371.84	92.887				
" CONCRETE BINDER CTYPE2	TON	2,304	3486.76		1182.76			32.60	
" SURFACE CTYPE1	TON	4,563	2440.35		877.35			32.45	
STRUCTURES									
CLASS "A" CONCRETE									
" "B" "									
" "C" "									
REINFORCING STEEL									
15" RC PIPE (CLASS III)	LF	28	24			4		22.00	
18" RC " "	LF	16	368		352			26.00	
24" RC " "	LF	48	0			48			
36" RC " "	LF	72	72					63.50	
15" RELAID " CULVERT	LF	20	0			20			
18" " " "	LF	220	32			188		20.00	
24" " " "	LF	96	48			48		25.00	
" " " "									
" " " "									
INCIDENTAL CONSTRUCTION									
8" PIPE SLOPEDRAIN	LF	275	0			275			
HAND PLACED RIP RAP	TON	250	629.14		379.14			53.00	
STEEL BEAM GUARDRAIL	LF	550	800		250			10.00	
RESET STEEL BEAM GUARDRAIL	LF	250	0			250			
END ANCHORS (TYPE A)	EA	16	16					425.00	
STEEL THRIE BEAM									
GUARD RAIL BRIDGE CONN.	EA	12	16		4			900.00	
RESET FENCE	LF	2200	2305		105			2.00	
SEEDING (UNMULCHED)	MSY	80.743	42.448			38.225		250.00	
TEMPORARY SEEDING	MSY	16.730	3.261			13.469		165.00	
FERTILIZER (10-10-10)	TON	9.20	4.40	4.50		4.80		280.00	
LIME	TON	16.67	8.77			7.80		110.00	
NITROGEN	lbs	789	421			378		3.50	
TERRACING	LF	1258	0			6258			
SILT FENCE	LF	300	4273		3973			4.50	
SILT BASIN	C.Y	1257	0			1257			
RESET THRIE BEAM GUARDRAIL									
BRIDGE CONN.	EA	4	0			4			
MANHOLE	EA	1	2		1			1235.00	
MOVING ITEM # 1	LS	0	#450.00		#450.00			10-24-89 S.O. #450.00	
SHRINKAGE									
NET MILEAGE	%	40	13.7949		053,196.80			\$ 10.53,196.73	
	Miles	1.286	1.286	1.190					

NOTE: LIST ITEMS UNDER THE PROPER HEADING AND IN ORDER CARRIED IN THE CONTRACT

PROGRESS DATA

PROJECT ACCEPTED MARCH 1 1990

[illegible]

BOOK NO. 7 _____

		DATE
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[illegible]

RIG

SOUTH CAROLINA
DEPARTMENT OF HIGHWAYS
AND PUBLIC TRANSPORTATION
COLUMBIA

FED. RD. DIV. NO.	STATE	COUNTY	FILE	PROJECT NO.	ROUTE NO.	SHEET NO.	TOTAL SHEETS
3	S.C.	GEORGETOWN	2245.535	BRF-121(76)	51	1	27

INDEX OF SHEETS

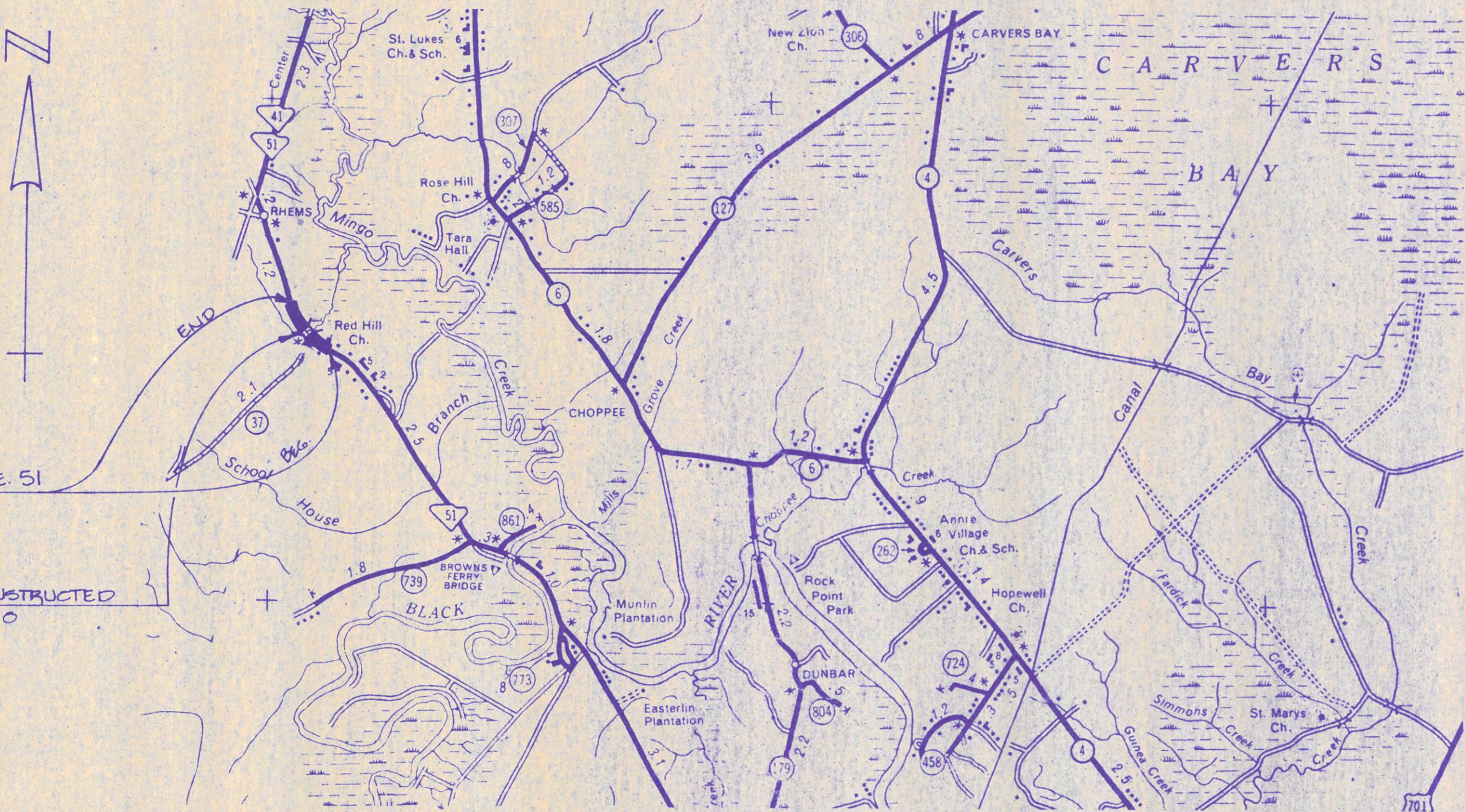
SHEET NO. 1	TITLE SHEET
2	TYPICAL SECTION
3	DETAIL OF ASPH. SHOULDER ROLL AND FLUME AT BRIDGE ENDS
4	BLANK
5	BLANK
6	BLANK
7:7A	BLANK
8	PROPERTY LAYOUT
9-12	PLAN AND PROFILE
13-23	CROSS SECTIONS

PLAN AND PROFILE OF PROPOSED
STATE HIGHWAY
GEORGETOWN COUNTY
FILE: 2245.535 PROJ.: BRF-121(76)
ROUTE 51
BRIDGE APPROACHES TO SMITHS BRANCH

SECTION	SUMMARY OF ESTIMATED QUANTITIES	QUANTITY	UNIT
107(1)	TRAFFIC CONTROL	NEC.	L.S.
201(1)	CLEARING AND GRUBBING WITHIN RIGHT-OF-WAY	NEC.	L.S.
203(1)	UNCLASSIFIED EXCAVATION	3,646	C.Y.
203(3)	BORROW EXCAVATION	16,941	C.Y.
306(1)	STABILIZED AGGREGATE BASE COURSE (9" UNIFORM)	7,134	S.Y.
303(3)	SCORIFYING, MIXING, ECHING, SHAPING & RESHAPING	3,544	TONS
401(1)	ASPHALT CEMENT IN PAVING MIXTURE	78	TONS
402(1)	ASPHALT CONCRETE BINDER COURSE	892	TONS
403(1)	ASPHALT CONCRETE SURFACE COURSE (TYPE I)	536	TONS
714(1)	15" R.C. PIPE CULVERT (CLASS III)	4	L.F.
714(1)	18" R.C. PIPE CULVERT (CLASS III)	4	L.F.
714(1)	24" R.C. PIPE CULVERT (CLASS III)	48	L.F.
714(1)	36" R.C. PIPE CULVERT (CLASS III)	72	L.F.
717(1)	15" BELAID PIPE CULVERT	20	L.F.
717(1)	18" BELAID PIPE CULVERT	136	L.F.
717(1)	24" BELAID PIPE CULVERT	96	L.F.
719(3)	MANHOLE	1	EACH
803(3)	8" PIPE SLOPE DRAIN	125	L.F.
804(1)	HAND PLACED RIPRAP	250	TONS
805(1)	STEEL BEAM GUARD RAIL	150	L.F.
805(9)	END ANCHORS (TYPE A)	4	EACH
805(10)	STEEL THREE BEAM GUARD RAIL BRIDGE CONNECTOR	4	EACH
807(1)	RESET FENCE	1,200	L.F.
810(2)	SEEDING (UNMULCHED)	42.516	M.O.Y.
810(3)	TEMPORARY SEEDING	9.685	M.O.Y.
810(4)	FERTILIZER (10-10-10)	4.87	TONS
810(5)	LIME	8.74	TONS
810(6)	NITROGEN	419	LBS.
815(8)	TERRACING	560	L.F.
815(3)	SILT FENCE	100	L.F.
815(4)	SILT BASINS	560	C.Y.

FILE: 2245.535 PROJ.: BRF-121(76) RTE. 51
STA. 741+50.0 TO STA. 767+16.96
SEE SHEET NOS. 9-11

90' CONCRETE BRIDGE IS TO BE CONSTRUCTED
FROM STA. 753+51.0 TO STA. 754+41.0



3 DAYS BEFORE DIGGING IN
SOUTH CAROLINA
CALL 1-800-922-0983
PALMETTO UTILITY LOCATION SERVICE

CONVENTIONAL SIGNS

State Line	Power Poles
County Line	Telephone or Telegraph Pole
City or Town Limits	Marsh
Property Line	Trees
Fence	Brush
Retaining Wall	Stumps
Existing Road	Buildings
and R.O.W. Lines of	Bridge
Proposed Road	Concrete Box Culvert
Railroad	Pipe Culvert
Levee or Embankment	Drop Inlet and Culvert
Guard Rail	Hub on Center Line
Point of Intersection (P.I.)	

TRAFFIC DATA

1988	ADT	3,640
2008	ADT	7,040
	TRUCKS	10 %

LEGEND

PROPOSED PROJECT	PAV	ER
OTHER ROADS		

LAYOUT

SCALE 1 INCH = 5,280 FEET

	NET LENGTH OF ROADWAY	0.469	MILES
	NET LENGTH OF BRIDGES	0.017	MILES
	NET LENGTH OF PROJECT	0.486	MILES
	LENGTH OF EXCEPTIONS	-	MILES
	GROSS LENGTH OF PROJECT	0.486	MILES

EQUALITIES IN STATIONING
None

NOTE: ALL WORKMANSHIP AND MATERIAL ON THIS PROJECT TO
CONFORM WITH SOUTH CAROLINA STATE HIGHWAY DEPARTMENT
STANDARD SPECIFICATIONS FOR HIGHWAY CONSTRUCTION EDITION
OF 1986.

RECOMMENDED FOR R/W ACQUISITION	
PROJECT DEVELOPMENT ENGINEER	2-24-87
SUBMITTED BY	
ROAD ENGINEER DESIGN	2-25-87
APPROVED BY	
STATE HIGHWAY ENGINEER	2-26-87

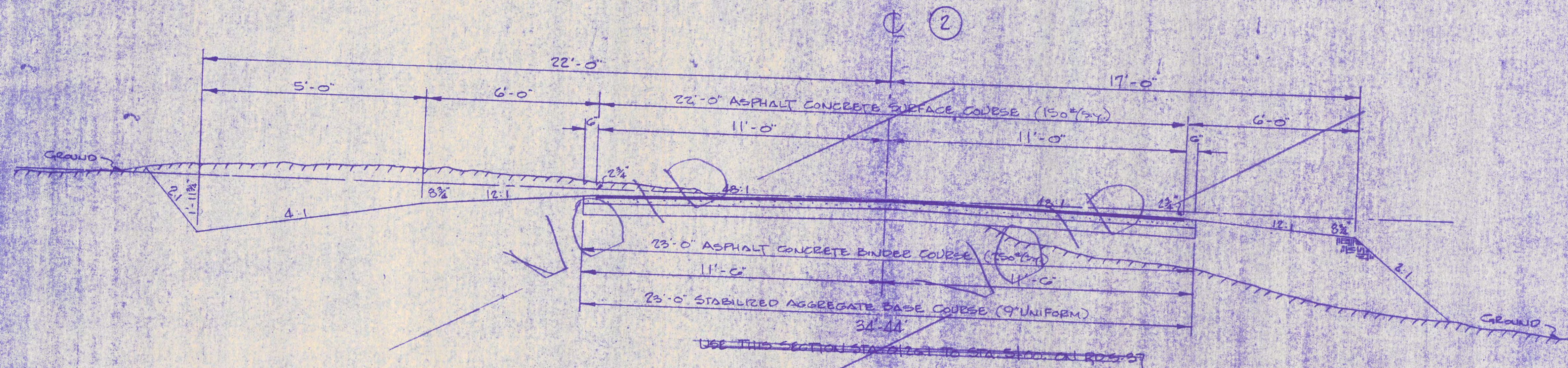
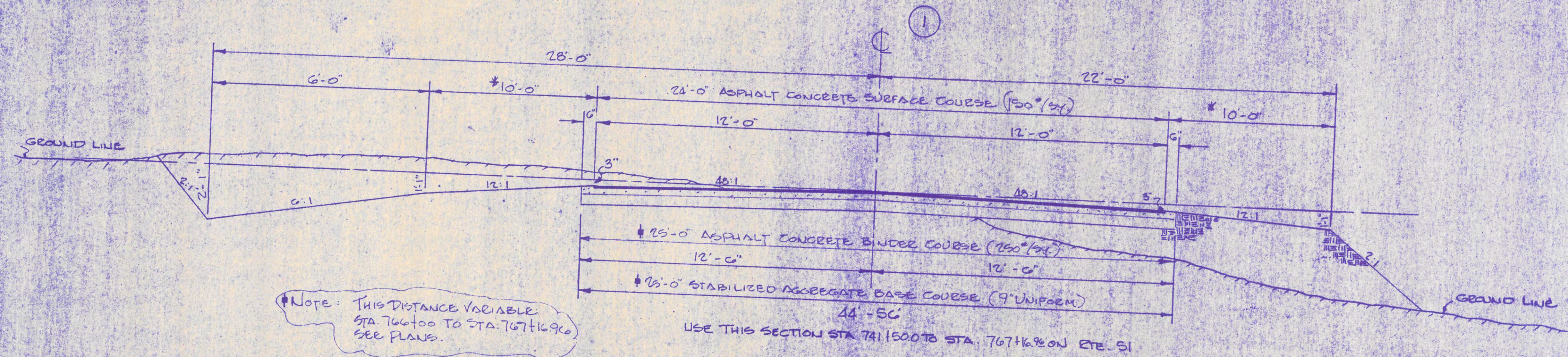
APPROVED FOR	DATE
MAYOR	
COUNCILMEN	
CLERK	

RECOMMENDED BY:	
PROJECT DEVELOPMENT ENGINEER	DATE
SUBMITTED BY:	
ROAD ENGINEER DESIGN	DATE
APPROVED BY:	
STATE HIGHWAY ENGINEER	DATE

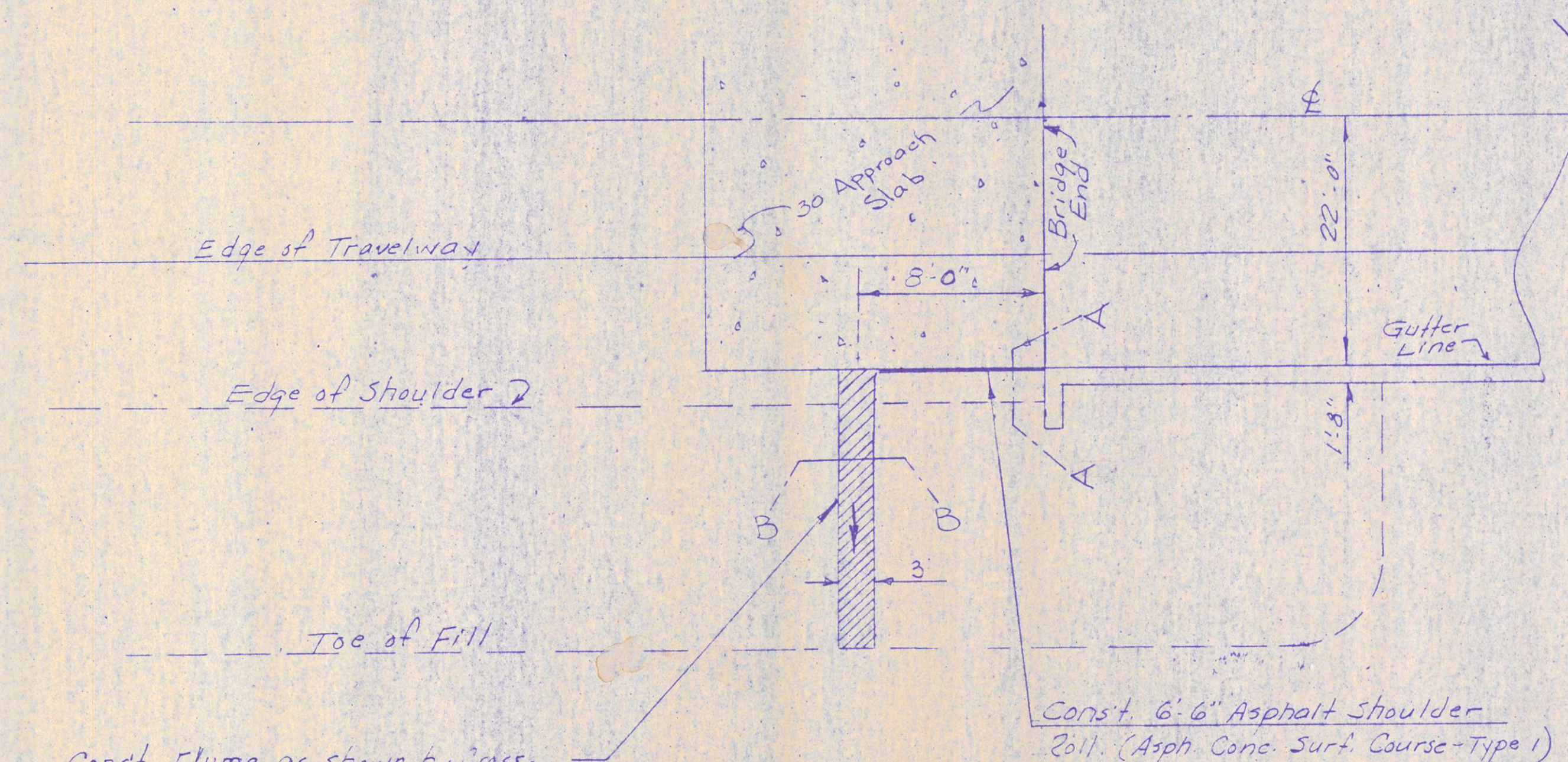
DEPARTMENT OF TRANSPORTATION FEDERAL HIGHWAY ADMINISTRATION APPROVED FOR DIVISION ADMINISTRATOR	
BY: DISTRICT ENGINEER	DATE

**TYPICAL SECTION OF IMPROVEMENT
SOUTH CAROLINA DEPT. HWY. & PUBLIC TRANS.
Columbia, S. C.**

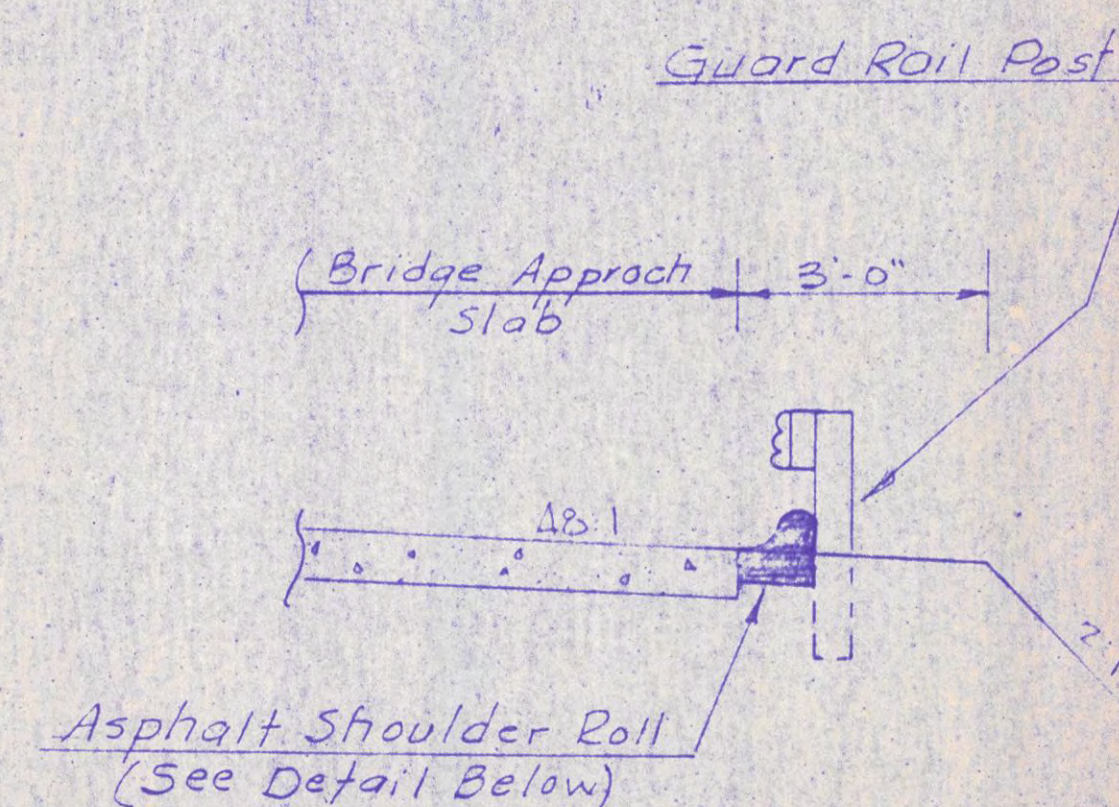
FED. RD. DIV. NO.	STATE	COUNTY	FILE NO.	PROJECT NO.	ROUTE NO.	SHEET NO.	TOTAL SHEETS
3	S.C.	GEORGETOWN	2245.525	REF. 12176	51	2	27



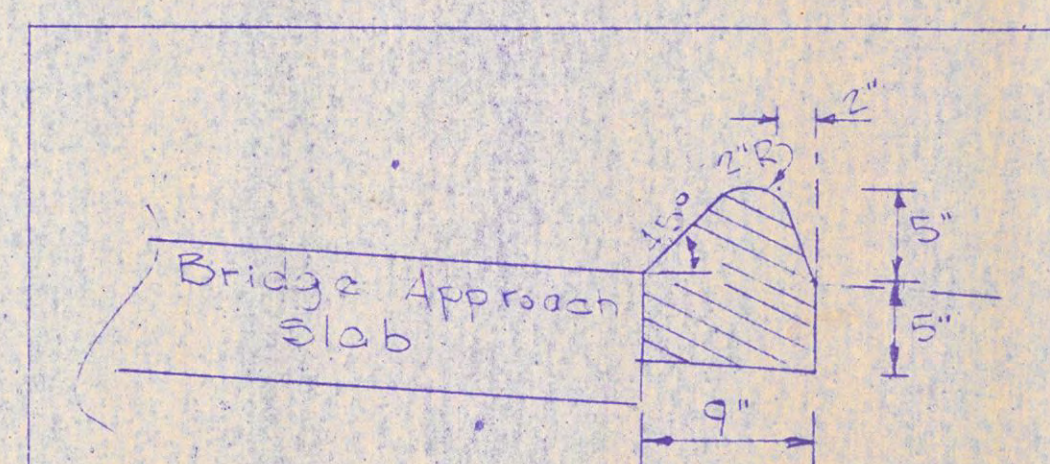
DETAIL OF ASPHALT SHOULDER ROLL AND FLUME AT BRIDGE ENDS



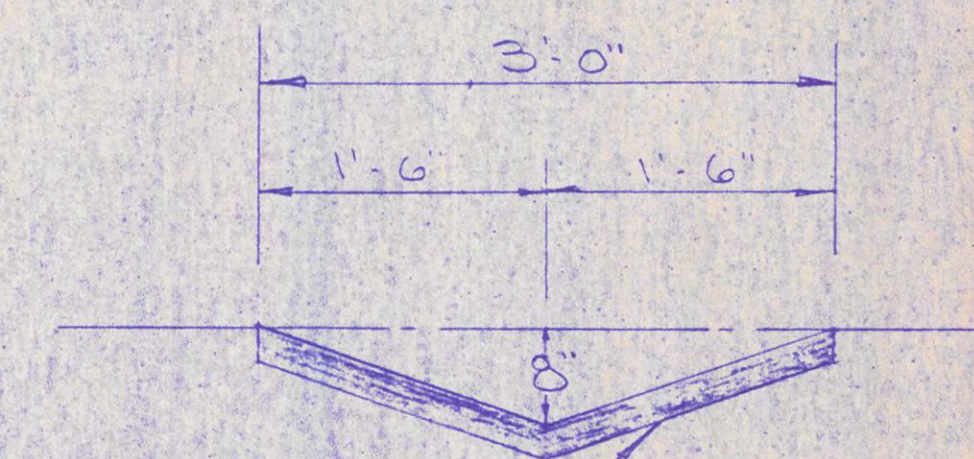
Const. Flume as shown by cross-section.
 Hatched Area at Bridge Ends where
 Directed by the Engineer. Use Asphalt
 Concrete Surface Course (Type 1) 300 Lbs. per S.Y.



SECTION A-A



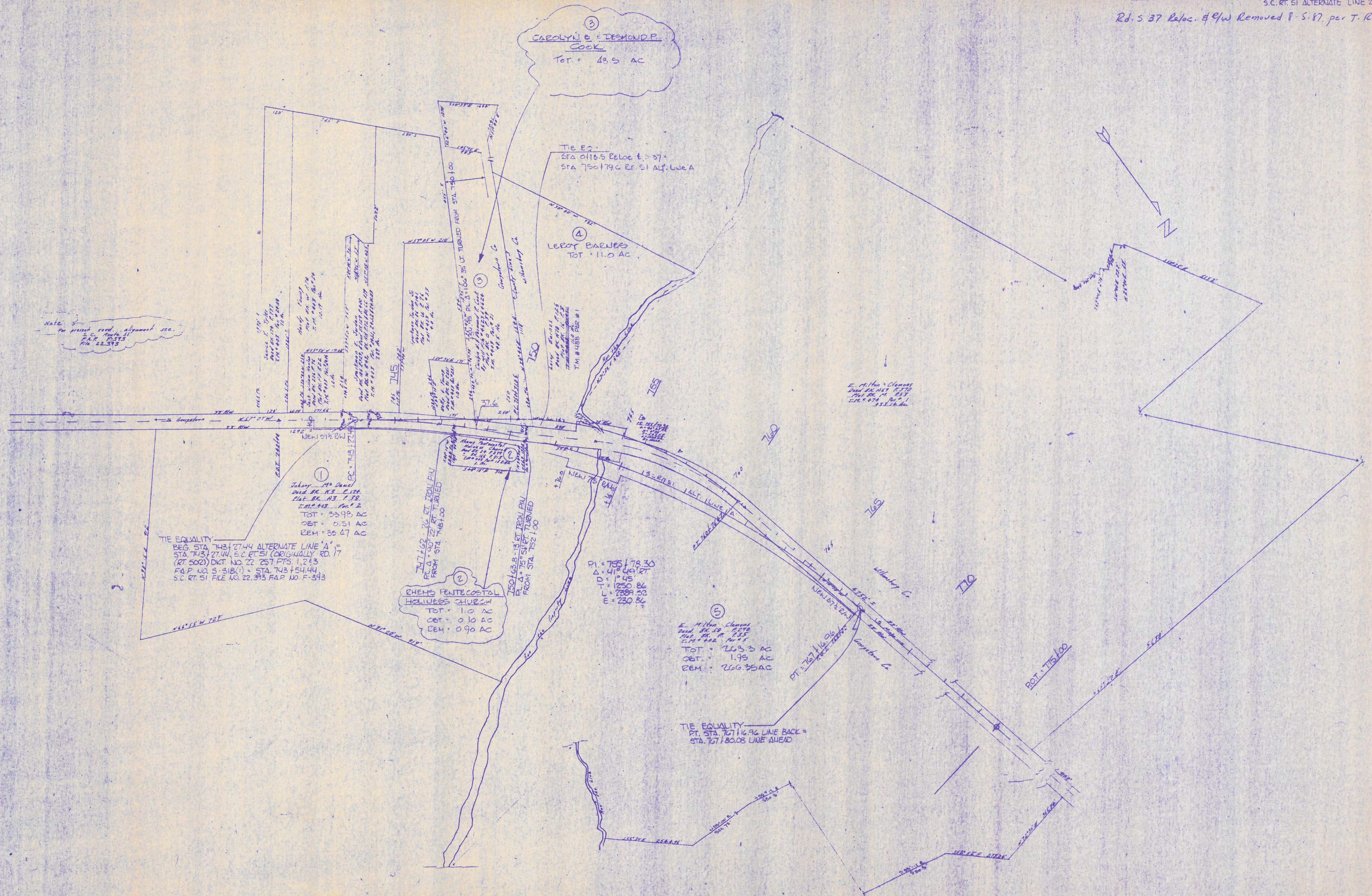
DETAIL OF ASPHALT
 SHOULDER ROLL



Asphalt Concrete Surface
 Course-Type 1 (300 Lbs. per S.Y.)

SECTION B-B

Rd. S 37 Reloc. & R/W Removed P. S. 87, per T. Ray TEL
S.C. RT. 51 ALTERNATE LINE "A"



Georgetown
S.C. RT. 51
Alternate Line "A"
Sheet 6 of 6

PLAN	DATE	BY	DATE	BY
SURVEYED				
PLACED				
NOTE BOOK				
ALIGNED CHECKED				
BY OF WAY CHECKED				
No.				

NOTE: THE DEPARTMENT WILL UTILIZE THE PRESENT 66' ± 150' RIGHT OF WAY AS SHOWN ON PLANS WHICH WAS ACQUIRED BY ROAD 17 (RT. 502) DEDICATED FILE NO. 22.257 AND 45.267 EXCEPT AS OTHERWISE SHOWN.

POWER POLES PROPERTY OF
SANTEE ELECTRIC CO-OP INC.
TELEPHONE POLES & PED.'S PROPERTY OF
GENERAL TELEPHONE & ELECTRONICS
WATER LINES PROPERTY OF GEORGETOWN CO.
WATER & SEWER DISTRICT.

TIE EQUALITY

BEG. STA. 740+00.0 THIS SURVEY =
STA. 740+00.0 S.C. RT. 51 (ORIGINALLY RD. 17 (RT. 502))
DOCKET NO. 22.257 PTS. 1, 2 & 3, FAP NO. S-318(1)
STA. 740+27.7 S.C. RT. 51, FILE NO. 22.393,
FAP NO. F-393

Survey Sta. 741+50.0 BEGIN Rte 51
FILE: 2245.535 PED: Ref. 121 (76)

TIE EQUALITY

BEG. STA. 743+27.44 ALTERNATE LINE 'A' =
STA. 743+27.44 S.C. RT. 51 (ORIGINALLY RD. 17 (RT. 502)) DKT. NO. 22.257 PTS. 1, 2 & 3
FAP NO. S-318(1) = STA. 743+54.44 S.C. RT. 51
FILE NO. 22.393 FAP NO. F-393

JOHNNIE McDANIEL

TOT. = 33.93 AC
OBT. = 0.51 AC
REM. = 33.42 AC
F.S.C. 10.28.87

RHEIMS PENTECOSTAL
HOLINESS CHURCH

TOT. = 1.0 AC
OBT. = 0.10 AC
REM. = 0.90 AC

GENERAL CONSTRUCTION NOTES:

CHANGES INVOLVING INCREASED COST OF RES. LOT OR CHANGES IN ALIGNMENT MUST BE SPECIFICALLY AUTHORIZED BY THE STATE HIGHWAY ENGINEER. DISTRICT ENGINEER MAY AUTHORIZE MINOR ALTERATIONS NOT IN CONFLICT WITH THE STANDARD PRACTICES OF THE DEPARTMENT AND NOT INVOLVING INCREASES IN COST. FORWARD INFORMATION ON ANY CHANGE IN ALIGNMENT TO THE COLUMBIA OFFICE AS SOON AS THE REVISION IS COMPLETED.

SEE INDIVIDUAL CURVES ON PLANS FOR SUPERELEVATION RATE AND DESIGN SPEED.

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

GRAVELLY MIXING EXC.	3544 MSY FOR OLD ROADWAY, WHERE DIRECTED BY THE ENGINEER
STABILIZED ASPHALT BASE CO.	100 CY FOR INTERSECTIONS & DRIVEWAYS
ASPHALT CEMENT IN PAVING MIXTURE	8 TONS
ASPHALT CONC. FINDER CO.	25 TONS
ASPHALT CONC. SURFACE CO.	58 TONS
RESET FENCE	1700 LF WHERE DIRECTED BY THE ENGINEER
SEEDING (UNIMULCHED)	12.316 MSY FOR ALL DISTURBED AREAS WHERE DIRECTED BY THE ENGINEER
FERTILIZER (10-10-10)	4.87 TONS
LIME	3.74 TONS
UREGEN	419 LBS
SILT FENCE	100 LF WHERE DIRECTED BY THE ENGINEER

TEMPORARY WATER POLLUTION CONTROL

TEMPORARY SEEDING	9.025 MSY WHERE DIRECTED BY THE ENGINEER
FERTILIZER (10-10-10)	0.50 TONS WHERE DIRECTED BY THE ENGINEER
TERPACUG	550 LF WHERE DIRECTED BY THE ENGINEER
3" PIPE SOPE DRAIN	125 LF WHERE DIRECTED BY THE ENGINEER
SILT BASINS	550 CY FOR SEDIMENT BASINS & SOPE HOLES WHERE DIRECTED BY THE ENGINEER

* DURING CONSTRUCTION POOR MATERIAL WAS EXCAVATED AND HAULED FROM JOBSITE EXCAVATED MATERIAL PAID FOR AS UNCLASSIFIED EXCAVATION.

UNCL. EXC. = 381
BORROW EXC. = 7,600
MUCK EXC. = 1,229

EXC. = 381
BORROW EXC. = 7,600
SUB TOT. = 7,981
LESS BORROW = 7,600
TOT. = 381

EMB. = 7,013
13.7949% = 968
SUBTOT. = 7,981
LESS BORROW = 7,600
TOT. = 381

UNCL. EXC. = 1,245 CY
BOR. EXC. = 6,750 CY
EXC. = 1,245 CY EMB. = 6,257 CY
BOR. EXC. = 6,750 CY 40% = 2,700 CY
SUBTOT. = 7,450 CY 10% = 7,450 CY
LESS BOR. = 6,750 CY LESS BOR. = 6,750 CY
TOT. = 1,245 CY TOT. = 1,245 CY

USE 44'-56" TYPICAL SECTION NO. 1
STA. 741+50.0 TO STA. 741+16.90
SEE SHEET NO. 2

34.05

33.30

32.49

31.54

30.49

29.32

28.05

26.66

25.17

23.56

21.95

20.17

19.12

17.60

16.19

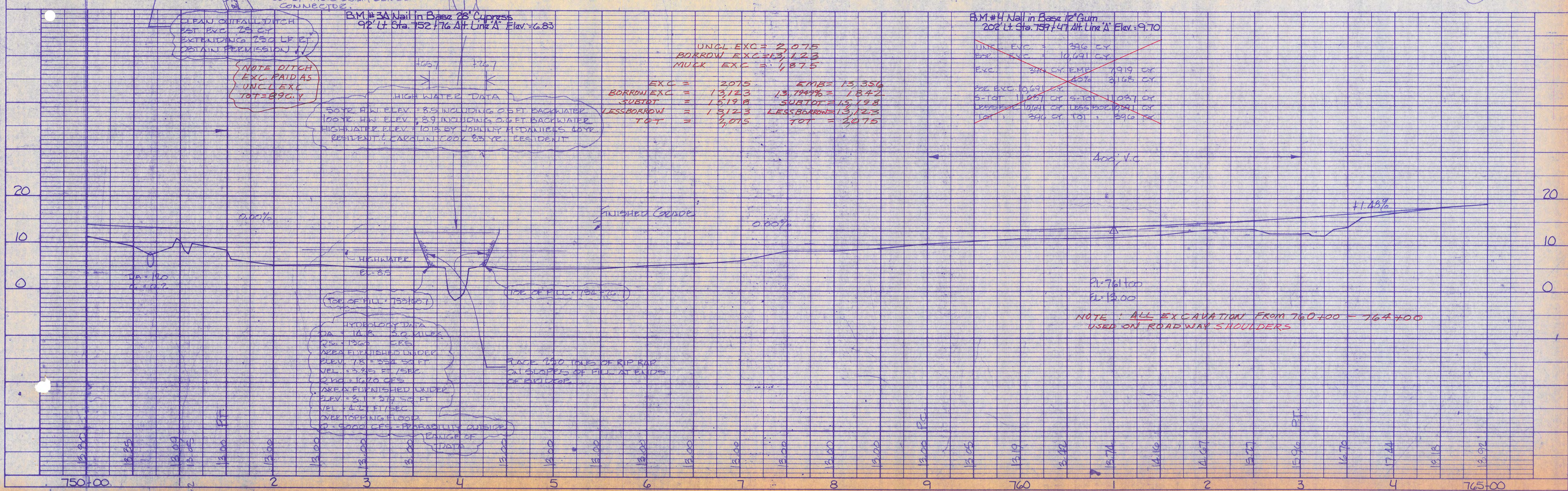
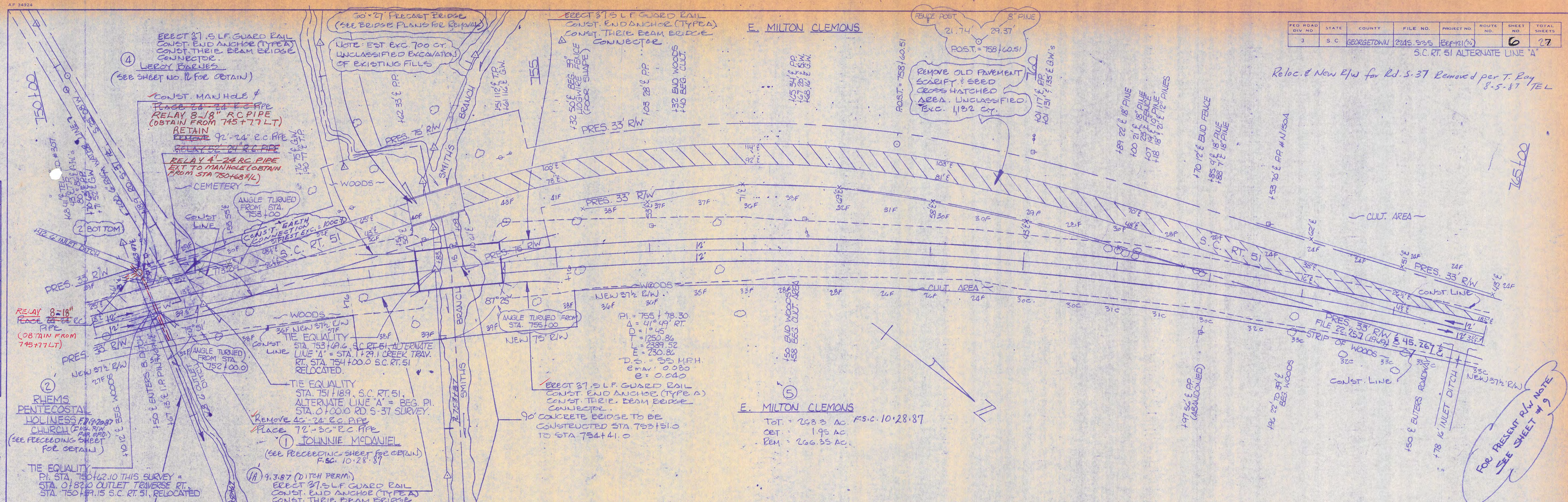
15.01

14.02

13.80

FED ROAD DIV NO	STATE	COUNTY	FILE NO.	PROJECT NO	ROUTE NO.	SHEET NO	TOTAL SHEETS
3	S. C.	GEORGETOWN	2245.535	Ref 121(16)		6	27

Reloc. & New R/W for Rd. S-37 Removed per T. Ray
8-5-87 TEL



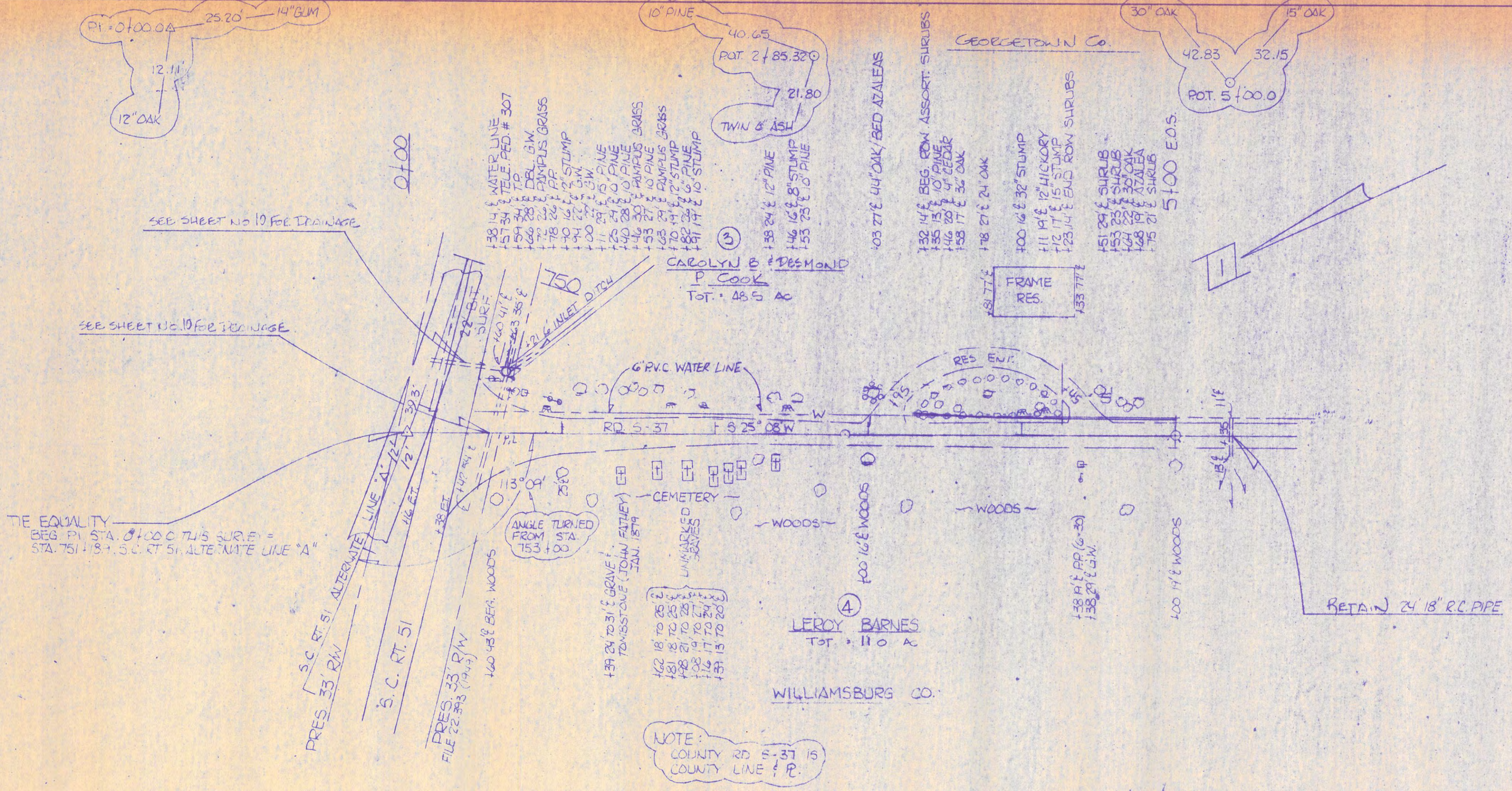
PLAN	NO.	BY	DATE	SURVEYED	ALIGNED	CHECKED	BY	DATE

PROFILE	NO.	BY	DATE	SURVEYED	ALIGNED	CHECKED	BY	DATE

FED. ROAD DIV. NO.	STATE	COUNTY	FILE NO.	PROJECT NO.	ROUTE NO.	SHEET NO.	TOTAL SHEETS
3	S.C.	GEORGETOWN	2245.535	BRF-121(10)		8	27

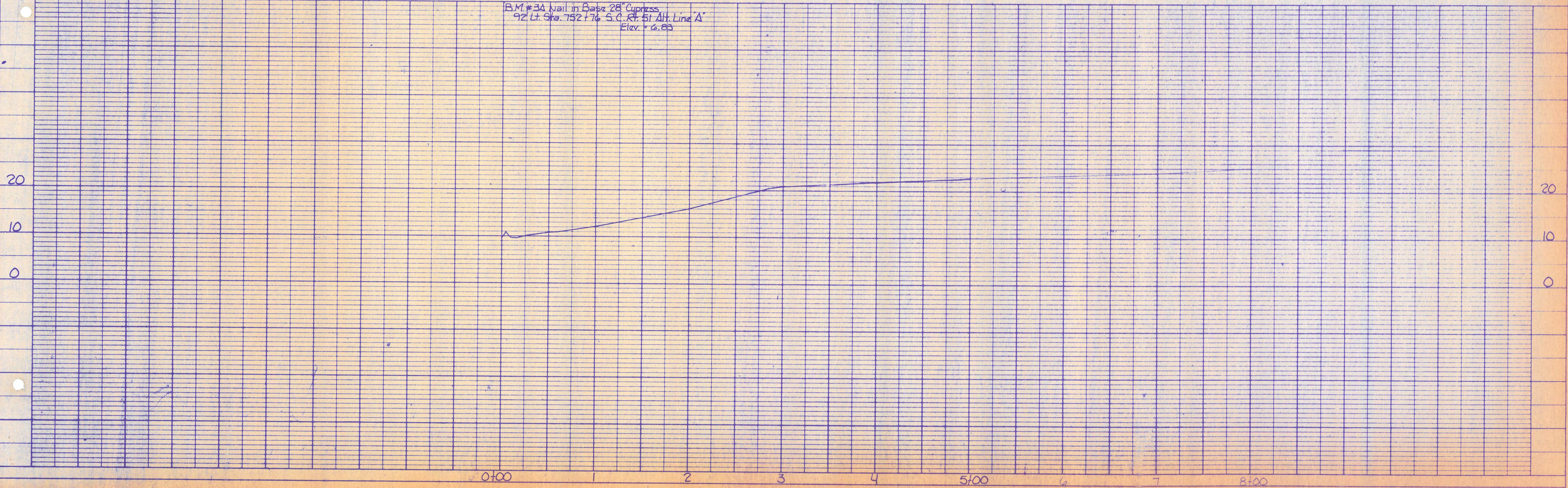
RD. 5-37 TRAVERSE

Rd. 5-37 Reloc. & R/W Removed per T. Ray P.S. 87 TEL



NOTE: COUNTY RD 5-37 IS COUNTY LINE 1/2

B.M. #34 Nail in Base 28" Cypress
92 ft. Sta. 752+76 S.C. Rt. 51 Alt. Line A
Elev. = 6.83



Georgetown Co.
S.C. Rt. 51
Year 4 of 6