

THIS CONTRACT PLAN SET INCLUDES

ROADWAY PLANS
STRUCTURE PLANS

A DETAILED INDEX APPEARS ON THE KEY SHEET
OF EACH COMPONENT SET OF PLANS

INDEX OF ROADWAY PLANS

SHEET NO.	SHEET DESCRIPTION
1	KEY SHEET
2	SUMMARY OF PAY ITEMS
3	TYPICAL SECTION
4-5	SUMMARY OF QUANTITIES
6-13	ROADWAY PLAN-PROFILES
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32-39	UTILITY ADJUSTMENTS
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41	APPROACH SLAB
42	APPROACH SLAB DETAILS

Contractor: Sheltra & Sons, Inc.,
District Engineer: Dan Foss, P.E.
Resident Engineer: Paul Theberge, P.E.
Project Engineer: Thomas Hobbs
Work Started: January 26, 1999
Work Conditionally Accepted: June 10, 2000
Work Final Accepted: August 1, 2000

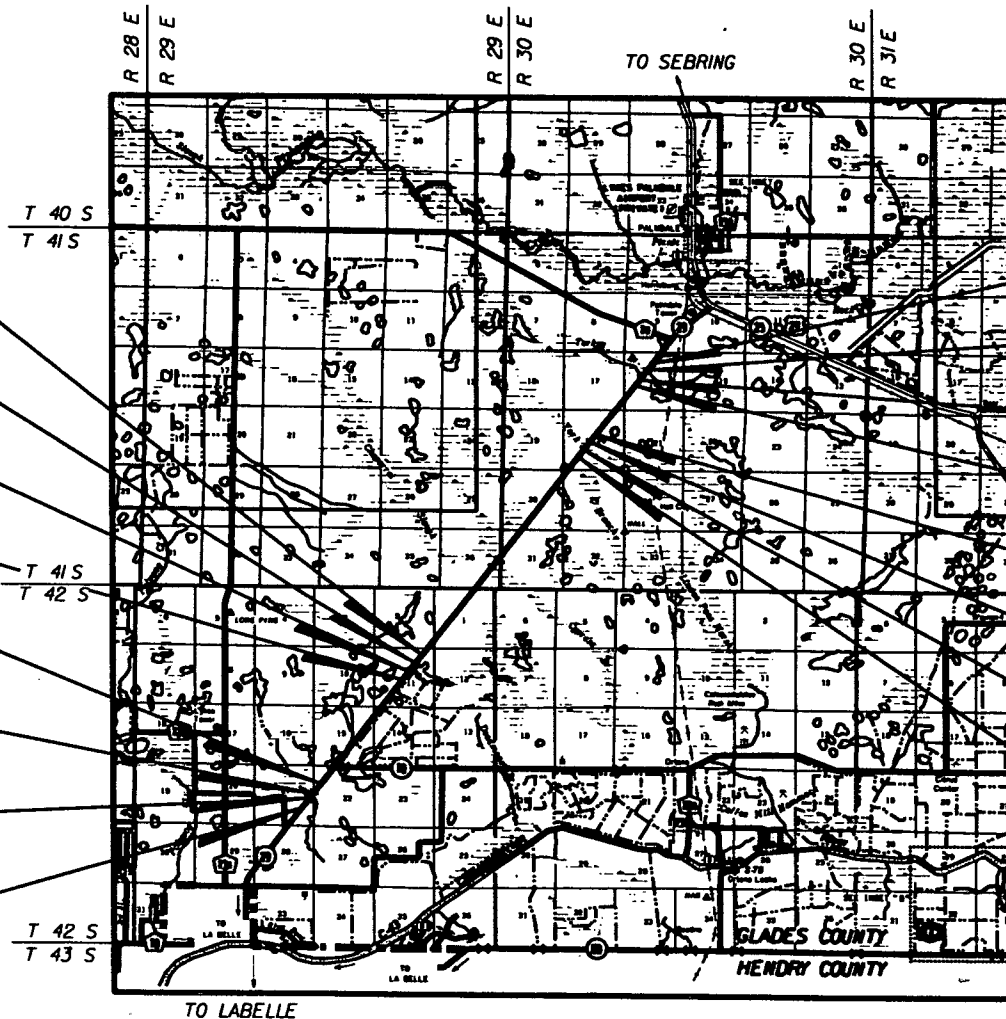
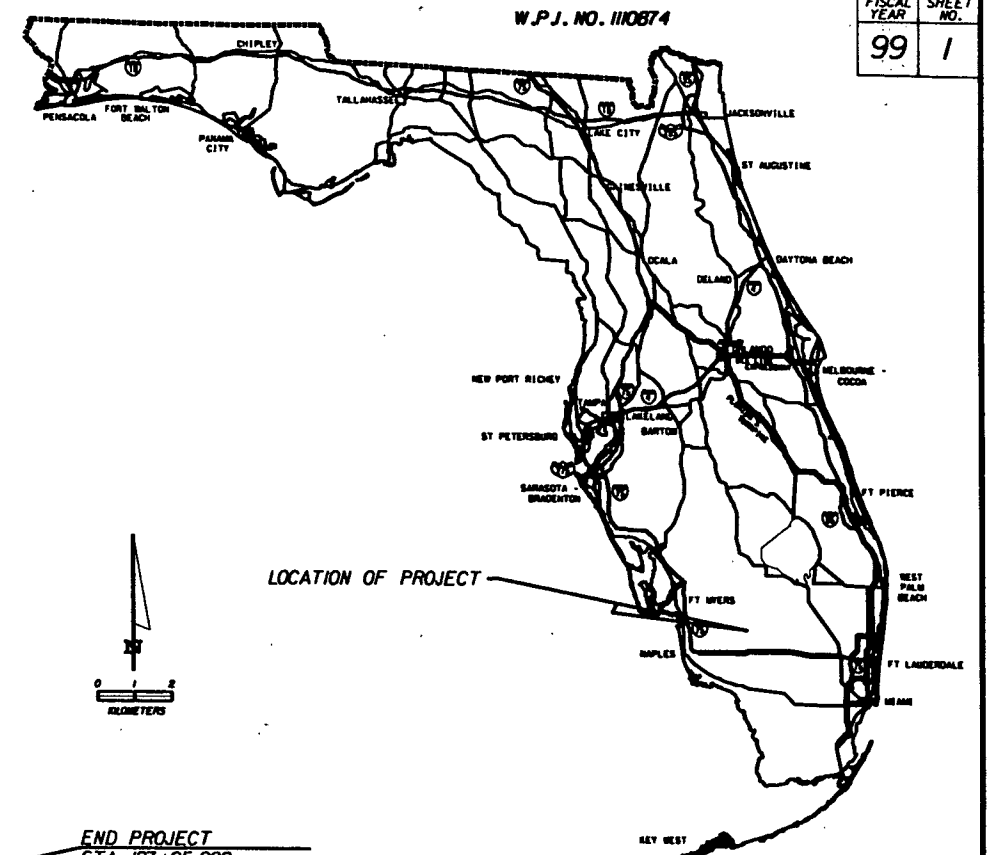
THESE PLANS HAVE BEEN PREPARED
IN ACCORDANCE WITH AND ARE GOVERNED
BY THE STATE OF FLORIDA,
DEPARTMENT OF TRANSPORTATION,
ROADWAY AND TRAFFIC DESIGN STANDARDS
(BOOKLET DATED JANUARY, 1998 METRIC).

REVISIONS



STATE OF FLORIDA
DEPARTMENT OF TRANSPORTATION
FINAL PLANS
~~PLANS OF PROPOSED~~
STATE HIGHWAY

FINANCIAL PROJECT NO. 193991-1-52-01
STATE PROJECT NO. 05090-3511
GLADES COUNTY
STATE ROAD NO. 29



BEGIN EXCEPTION
STA. 97+25.000

END BRIDGE
STA. 95+62.359
BRIDGE 050035

BEGIN BRIDGE
STA. 95+48.619

EXCEPTION
STA. 93+85.000

BEGIN EXCEPTION
STA. 91+51+10.000

END BRIDGE
STA. 49+42.308
BRIDGE 050941

BEGIN BRIDGE
STA. 49+33.208

BEGIN PROJECT
STA. 47+50.000
K.P. 2.800 = M.P. 1.740

END PROJECT
STA. 197+05.000
K.P. 17.749 = M.P. 11.027

END BRIDGE
STA. 195+72.759
BRIDGE 050031

BEGIN BRIDGE
STA. 195+63.689

END EXCEPTION
STA. 194+37.500

BEGIN EXCEPTION
STA. 171+75.000

END BRIDGE
STA. 170+36.023
BRIDGE 050032
STA. 170+22.363
BEGIN BRIDGE

END EXCEPTION
STA. 168+90.000

PLANS PREPARED BY:
GENESIS GROUP
3910 U.S. HIGHWAY 301 NORTH
SUITE 140
TAMPA, FLORIDA 33619
LARRY L. FLUTY, P.E.
VENDOR NO. VF591-663-160-001

ROADWAY PLANS
ENGINEER OF RECORD
LARRY L. FLUTY, P.E.
FL. P.E. NO. 38628

ATTENTION IS DIRECTED TO THE FACT THAT
THESE PLANS MAY HAVE BEEN ALTERED IN
SIZE BY REPRODUCTION. THIS MUST BE
CONSIDERED WHEN OBTAINING SCALED DATA.

GOVERNING SPECIFICATIONS: STATE OF FLORIDA,
DEPARTMENT OF TRANSPORTATION, STANDARD
SPECIFICATIONS, DATED 1996, SUPPLEMENTS AND
SPECIAL PROVISIONS THERETO IF NOTED IN THE
CONTRACT SPECIFICATIONS FOR THIS PROJECT.

NOTE: THIS IS A METRIC UNIT PROJECT

LENGTH OF PROJECT	
	METERS
ROADWAY	1 206.930
BRIDGES	45.570
NET LENGTH OF PROJ.	1 252.500
EXCEPTIONS	13 696.696
GROSS LENGTH OF PROJ.	14 949.196

REVISIONS		
DATE	BY	DESCRIPTION

ROADWAY PLANS
ENGINEER OF RECORD: LARRY L. FLUTY, P.E.
DATE: 12/13/96
P.E. NO. 38628

6/24/98
CES0154

CESPJ15 4
PAGE 01 OF 01

MANDIST: 01 COUNTY: 05 SECTION: 090 193991 1 52 01

A S L P T C	SUMMARY OF BRIDGE PAY ITEMS							
	ITEM NUMBER	ITEM	UN IT	19399115201 BR * 050031 FA NON PART	19399115201 BR * 050032 FA NON PART	19399115201 BR * 050035 FA NON PART	19399115201 BR * 050941 FA NON PART	QUANTITY TOTAL
1	2110	3	LS	.000	.000	.000	.000	1.000
3	2350	72	MI	44.000	59.000	59.000	44.000	206.000
1	2400	4	M3	14.800	21.600	21.700	14.800	72.900
1	2400	4	M3	6.800	9.000	9.000	8.200	33.000
2	2400	143	M2	91.700	112.300	112.700	91.800	408.500
2	2400	148	MI	22.700	31.900	32.100	22.800	109.500
1	2401	70	M3	.000	.000	.000	6.010	6.010
1	2415	1	KG	3983.000	5663.000	5663.000	3983.000	19292.000
1	2415	1	KG	650.000	904.000	884.000	870.000	3308.000
1	2455	3	MI	34.000	48.000	80.000	24.000	186.000
1	2455	4	MI	34.000	48.000	80.000	24.000	186.000
1	2455	15	EA	1.000	1.000	1.000	1.000	4.000
1	2455	17	EA	1.000	1.000	1.000	1.000	4.000

NOTE: * IDENTIFIES ITEMS NORMALLY REQUIRING SHOP DRAWINGS CONTRACTOR SHALL DETERMINE OTHER ITEMS REQUIRING SHOP DRAWINGS.

6/24/98
CES0152

CESPJ15 2
PAGE 01 OF 01

MANDIST: 01 COUNTY: 05 SECTION: 090 193991 1 52 01

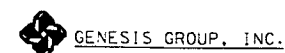
A S L P T C	SUMMARY OF ROADWAY PAY ITEMS							
	ITEM NUMBER	ITEM	UN IT	19399115201 FA NON PART				QUANTITY TOTAL
1	2101	1	LS	1.000				1.000
1	2102	1	LS	1.000				1.000
2	2102	60	ED	16208.000				16208.000
2	2102	70	MI	1612.800				1612.800
2	2102	70	MI	1612.800				1612.800
2	2102	74	ED	27744.000				27744.000
2	2102	77	ED	4930.000				4930.000
2	2102	78	EA	400.000				400.000
2	2102	79	ED	5920.000				5920.000
2	2102	81	EA	144.000				144.000
3	2102	911	MI	960.000				960.000
3	2102	912	MI	960.000				960.000
2	2104	10	EA	20.000				20.000
1	2104	11	MI	235.000				235.000
1	2104	12	MI	160.000				160.000
1	2104	13	MI	1399.000				1399.000
6	2104	15	EA	2.000				2.000
2	2109	71	DA	290.000				290.000
1	2110	1	LS	1.000				1.000
3	2120	1	M3	841.000				841.000
1	2162	2	M2	6519.000				6519.000
1	2285	701	M2	5427.000				5427.000
1	2300	1	LI	623.000				623.000
1	2300	1	LI	5622.000				5622.000
1	2327	70	M2	9163.000				9163.000
3	2331	2	MT	964.500				964.500
2	2337	7	MT	845.900				845.900
1	2339	1	MT	210.300				210.300
2	2360	71	M3	132.800				132.800
1	2400	1	M3	5.000				5.000
1	2430	984	EA	4.000				4.000
1	2536	1	MI	1131.600				1131.600
2	2536	73	MI	244.000				244.000
4	2536	85	EA	20.000				20.000
1	2570	5	MT	.600				.600
1	2570	9	KL	32.500				32.500
1	2575	1	M2	6519.000				6519.000
1	2700	46	AS	4.000				4.000
2	2706	3	EA	288.000				288.000
3	2710	23	NK	10.400				10.400
3	2710	24	NK	6.932				6.932
3	2710	25	MI	3465.000				3465.000
3	2710	28	MI	433.300				433.300
1	2711	7	M2	90.000				90.000

NOTE: * IDENTIFIES ITEMS NORMALLY REQUIRING SHOP DRAWINGS CONTRACTOR SHALL DETERMINE OTHER ITEMS REQUIRING SHOP DRAWINGS.

J. Hunt
7/24/98

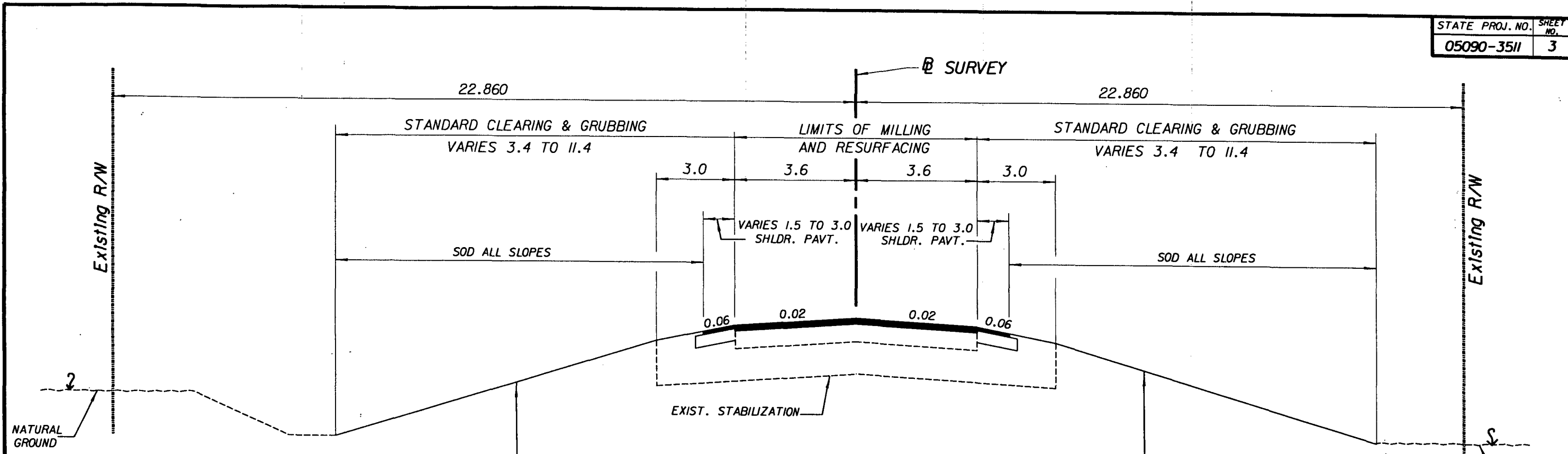
NOTE: THE TOTALS SHOWN ON THE SUMMARY OF ROADWAY PAY ITEMS INCLUDE THE QUANTITIES FOR PAVEMENT MARKINGS USED FOR PAVEMENT MARKINGS (AS SHOWN IN THE ROADWAY PLANS) AND FOR FINAL PAVEMENT MARKINGS (AS SHOWN ON THE SIGNING AND PAVEMENT MARKING PLANS).

REVISIONS											
DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION



FLORIDA DEPARTMENT OF TRANSPORTATION

SUMMARY OF PAY ITEMS



1:6 FOR FILLS TO 1.5
 1:6 TO EDGE OF CLEAR ZONE & 1:4 FOR FILLS 1.5 TO 3.0
 1:6 TO EDGE OF CLEAR ZONE & 1:3 FOR FILLS 3.0 TO 6.0
 1:2 (WITH GUARDRAIL) FOR FILLS OVER 6.0

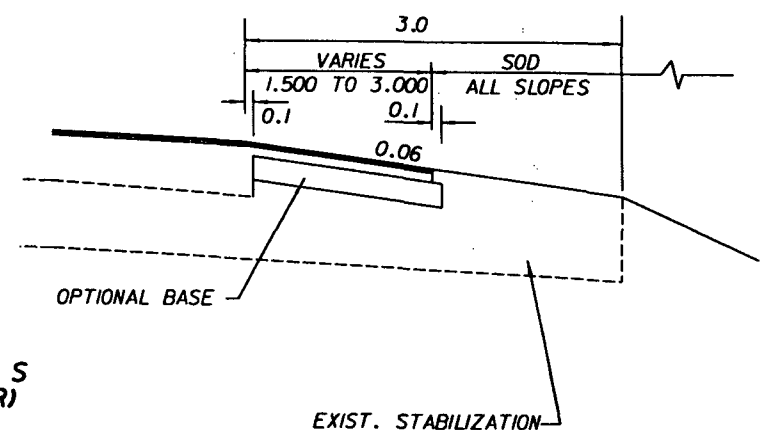
1:6 FOR FILLS TO 1.5
 1:6 TO EDGE OF CLEAR ZONE & 1:4 FOR FILLS 1.5 TO 3.0
 1:6 TO EDGE OF CLEAR ZONE & 1:3 FOR FILLS 3.0 TO 6.0
 1:2 (WITH GUARDRAIL) FOR FILLS OVER 6.0

TYPICAL SECTION

STA. 47+50.000 TO STA. 51+10.000
 STA. 93+85.000 TO STA. 97+25.000
 STA. 168+90.000 TO STA. 171+75.000
 STA. 194+37.500 TO STA. 197+05.000

EROSION CONTROL NOTE

THE CONTRACTOR'S ATTENTION IS DIRECTED TO THE SPECIAL PROVISIONS OF THIS CONTRACT WHICH REQUIRE THE PREPARATION AND APPROVAL OF AN EROSION CONTROL PLAN THAT ADDRESSES THE PREVENTION, CONTROL, AND ABATEMENT OF WATER POLLUTION.



SHOULDER PAVEMENT DETAIL

OPTIONAL BASE GROUP 01 WITH TYPE S STRUCTURAL COURSE (66KG/M2 AVG.) AND FRICTION COURSE (FC-3) (60KG/M2) (RUBBER)

MILLING AND RESURFACING

MILL EXISTING ASPHALT PAVEMENT (40mm AVG. DEPTH) AND RESURFACE WITH TYPE S STRUCTURAL COURSE (66KG/M2 AVG.) AND FRICTION COURSE FC-3 (60KG/M2) (RUBBER)

TRAFFIC DATA BRIDGE NO. 050941

1997 A.A.D.T. = 4300
 ESTIMATED OPENING YEAR 1999 A.D.T. = 4500
 DESIGN YEAR 2019 A.D.T. = 7000
 K= 10.9% D= 53.9% 24-HR. T= 25.0%
 DESIGN-HR. T= 12.5%
 DESIGN SPEED 100 km/h

TRAFFIC DATA BRIDGE NOS. 050035, 050032, 050031

1996 A.A.D.T. = 2800
 ESTIMATED OPENING YEAR 1999 A.D.T. = 3000
 DESIGN YEAR 2019 A.D.T. = 4800
 K= 10.4% D= 55.6% 24-HR. T= 32.6%
 DESIGN-HR. T= 16.3%
 DESIGN SPEED 100 km/h

[Handwritten Signature]
 12/21/96

DATE: 17/DEC/96
 FILE: F:\GEN\005\0509035.dwg

REVISIONS			DESIGNED			DRAWN			FLORIDA DEPARTMENT OF TRANSPORTATION		
DATE	BY	DESCRIPTION	NAME	DATE	NAME	DATE	APPROVED BY:	DATE:			
			DLD	3/96	DLD	3/96					
			HFL	3/96	HFL	3/96					
			SUPERVISED BY: W.J. WARDEN								



GENESIS GROUP, INC.

TYPICAL SECTION

GENERAL NOTES

1. ANY PUBLIC LAND CORNER WITHIN THE LIMITS OF CONSTRUCTION IS TO BE PROTECTED. IF A CORNER MONUMENT IS IN DANGER OF BEING DESTROYED AND HAS NOT BEEN PROPERLY REFERENCED, THE PROJECT ENGINEER SHOULD NOTIFY THE DISTRICT LOCATION SURVEYOR WITHOUT DELAY BY TELEPHONE.
2. AT THE BEGINNING AND END OF THE PROJECT, CONSTRUCTION LIMITS SHALL BE EXTENDED BEYOND THE PROJECT LIMITS (WHERE APPLICABLE) TO ALLOW FOR THE ASPHALT COURSES TO BE FEATHERED. FEATHER SHALL BE CONSTRUCTED IN SUCH A MANNER AS TO CONSTRUCT A SMOOTH TRANSITION. THE COST SHALL BE INCLUDED IN THE FRICTION COURSE PAY ITEM.
3. EXISTING DRAINAGE STRUCTURES WITHIN THE CONSTRUCTION LIMITS SHALL REMAIN UNLESS OTHERWISE NOTED.
4. EXISTING DRIVEWAYS WITHIN THE LIMITS OF THIS PROJECT HAVE BEEN EVALUATED FOR CONFORMANCE WITH FAC RULE 14-97.003(1)(b). THOSE THAT ARE IN SUBSTANTIAL CONFORMANCE WITH THE RULE AND THAT ARE TO REMAIN AT THEIR EXISTING LOCATION, ARE NOT SHOWN ON THE PLANS BUT ARE TO BE RECONSTRUCTED IN CONFORMANCE TO STANDARDS. THOSE THAT ARE TO BE RELOCATED OR CLOSED ARE DETAILED ON THE PLANS.
5. ALL ROADWAY PAVEMENT CUTS SHALL BE SAW CUT.
6. THE CONTRACTOR SHALL ERECT WIDE LOAD SIGNS AT EACH END OF BRIDGES AND APPROACHING INTERSECTIONS. CONTRACTOR SHALL CONTACT F.D.O.T. ROAD USE PERMITS ENGINEER IN WRITING, INFORMING HIM OF THE BEGINNING AND ENDING DATES THAT SIGNS WILL BE IN USE. THIS INFORMATION SHOULD BE ADDRESSED TO: ROAD USE PERMITS ENGINEER, FLORIDA DEPARTMENT OF TRANSPORTATION, MAIL STATION 62, 605 SUWANNEE STREET, TALLAHASSEE FLORIDA 32399-0450.

PAY ITEM NOTES

- 2102-1 INCLUDES APPROXIMATELY 792 M2 OF TEMPORARY PAVEMENT.
- 2104-10 THRU 2104-13-1 ARE ESTIMATED FOR PREVENTION, CONTROL AND ABATEMENT OF EROSION AND WATER POLLUTION AND SHALL BE USED AT LOCATIONS DESCRIBED IN THE CONTRACTOR'S APPROVED EROSION CONTROL PLAN OR AS DIRECTED BY THE PROJECT ENGINEER TO COMPLY WITH THE FEDERAL, STATE, AND LOCAL REGULATIONS.
- 2104-10-1 BASED ON REPLACEMENT EVERY 3 MONTHS.
- 2104-13-1 BASED ON REPLACEMENT EVERY 12 MONTHS.
- 2536-73 EXISTING GUARDRAIL TO BE DISMANTLED AND STOCKPILED WITHIN THE RIGHT-OF-WAY IN AREAS DESIGNATED BY THE ENGINEER FOR REMOVAL BY D.O.T. MAINTENANCE FORCES.
- 2331-2 INCLUDES 5 METRIC TONS FOR ADJUSTMENT OF THE CONNECTIONS TO EXISTING DRIVES, STREETS, ETC. AS DIRECTED BY THE PROJECT ENGINEER.
- 2400-1-15 INCLUDES 5 M3 FOR MISCELLANEOUS CONSTRUCTION, AS DIRECTED BY THE PROJECT ENGINEER.
- 2570-5 BASED ON 2 APPLICATIONS.
- 2327-70-040 MILL EXISTING PAVEMENT (40mm AVERAGE DEPTH) WITH THE FOLLOWING EXCEPTION: MILL EXISTING PAVEMENT ON ALL BRIDGES AT A 55mm DEPTH FROM BEGIN BRIDGE STATION TO END BRIDGE STATION. TRANSITION FROM ROADWAY MILL AVERAGE DEPTH OF 40mm TO BRIDGE MILL DEPTH OF 55mm FOR A 5m TRANSITION LENGTH. COST OF THE EXTRA MILLING DEPTH SHALL BE INCLUDED IN PAY ITEM.

SUMMARY OF EARTHWORK		
DESCRIPTION	P	F
	M3	M3
BRIDGE NO. 050941		
TOTAL ROADWAY EXCAVATION (A-2,1-3 MATL)	162	162
BRIDGE NO. 050035		
TOTAL ROADWAY EXCAVATION (A-2,1-3 MATL)	157	157
BRIDGE NO. 050032		
TOTAL ROADWAY EXCAVATION (A-2,1-3 MATL)	235	235
BRIDGE NO. 050031		
TOTAL ROADWAY EXCAVATION (A-2,1-3 MATL)	287.0	287
TOTAL ROADWAY EXCAVATION	841	841

EARTHWORK HAS BEEN CALCULATED USING THE LINEROCK BASE OPTION. IF ANOTHER OPTION IS CONSTRUCTED, THERE SHALL BE NO REVISION TO EARTHWORK QUANTITIES FOR WHICH PAYMENT IS MADE BY PLAN QUANTITY.

DATE: 7/DEC/96 FILE: 1-5011-005-SUB-SUMMARY-SUM-1.dgn

REVISIONS					
DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION



DESIGNED BY: DLD	DATE: 3/96	CHECKED BY: HFL	DATE: 3/96	APPROVED BY:	DATE:
DRAWN BY: TJB	DATE: 3/96	CHECKED BY: DLD	DATE: 3/96		
SUPERVISED BY: W.J. WARDEN					

FLORIDA DEPARTMENT OF TRANSPORTATION
SUMMARY OF QUANTITIES

SUMMARY OF GUARDRAIL

LOCATION STA. TO STA.	SIDE	GUARDRAIL		END ANCHORAGE TYPE SRT-350		FIELD BOOK REFERENCE
		M	F	EA		
				P	F	
BRIDGE NO. 050941						
48+31.862 TO 49+27.112	RT	95.250	95.25	1	1	FB 318629
48+77.582 TO 49+27.112	LT	49.530	49.53	1	1	
49+48.404 TO 49+97.934	RT	49.530	49.53	1	1	
49+48.404 TO 50+43.654	LT	95.250	95.25	1	1	
BRIDGE NO. 050035						
94+47.273 TO 95+42.523	RT	95.250	95.25	1	1	
94+92.993 TO 95+42.523	LT	49.530	49.53	1	1	
95+68.455 TO 96+17.985	RT	49.530	49.53	1	1	
95+68.455 TO 96+63.705	LT	95.250	95.25	1	1	
BRIDGE NO. 050032						
169+21.017 TO 170+16.267	RT	95.250	95.25	1	1	
169+73.757 TO 170+16.267	LT	49.530	49.53	1	1	
170+42.119 TO 170+91.649	RT	49.530	49.53	1	1	
170+42.119 TO 171+37.369	LT	95.250	95.25	1	1	
BRIDGE NO. 050031						
194+62.343 TO 195+08.063	RT	45.720	45.72	2	2	
195+08.063 TO 195+57.593	LT	49.530	49.53	1	1	
195+23.303 TO 195+57.593	RT	34.290	34.29	1	1	
195+78.855 TO 195+90.285	LT	11.430	15.24	1	1	
195+78.855 TO 196+28.385	RT	49.530	49.53	1	1	
196+01.715 TO 196+74.105	LT	72.390	72.39	2	2	
TOTAL		1131.6	1135.4	20	20	

SUMMARY OF SODDING

LOCATION STA. TO STA.	SIDE	P			F			FIELD BOOK REFERENCE
		L	W	M2	L	W	M2	
47+50.000 TO 49+27.112	LT	177.112	4.336	768.0				FB 42812
47+50.000 TO 49+27.112	RT	177.112	2.197	389.1				
49+48.404 TO 51+10.000	LT	161.596	1.170	189.1				
49+48.404 TO 51+10.000	RT	161.596	1.901	307.2				
BRIDGE NO. 050035								
93+85.000 TO 95+42.523	LT	157.523	1.480	233.1				
93+85.000 TO 95+42.523	RT	157.523	2.428	382.5				
95+68.455 TO 97+25.000	LT	156.545	3.982	623.3				
95+68.455 TO 97+25.000	RT	156.545	3.744	586.1				
BRIDGE NO. 050032								
168+90.000 TO 170+16.267	LT	126.267	3.083	389.3				
168+90.000 TO 170+16.267	RT	126.267	0.410	51.8				
170+42.119 TO 171+75.000	LT	132.881	2.921	388.1				
170+42.119 TO 171+75.000	RT	132.881	1.251	166.3				
BRIDGE NO. 050031								
194+37.500 TO 195+57.593	LT	120.093	4.086	490.8				
194+37.500 TO 195+57.593	RT	120.093	3.759	451.4				
195+78.855 TO 197+05.000	LT	126.450	5.057	639.4				
195+78.855 TO 197+05.000	RT	126.450	3.538	447.4				
SUMMARY OF SIDE DRAIN								
				16.0				
PROJECT TOTAL						6 518.9		15.9%

SUMMARY OF EXISTING GUARDRAIL

LOCATION STA. TO STA.	SIDE	GUARDRAIL		FIELD BOOK REFERENCE
		M	F	
BRIDGE NO. 050941				
49+11.872 TO 49+27.112	LT/RT	30.5	44.0	FB 318629
49+48.404 TO 49+63.664	LT/RT	30.5	49.5	
BRIDGE NO. 050035				
95+27.283 TO 95+42.523	LT/RT	30.5	51.5	
95+68.455 TO 95+83.695	LT/RT	30.5	55.0	
BRIDGE NO. 050032				
170+01.027 TO 170+16.267	LT/RT	30.5	52.0	
170+42.119 TO 170+57.359	LT/RT	30.5	53.0	
BRIDGE NO. 050031				
195+42.353 TO 195+57.593	LT/RT	30.5	45.75	
195+78.855 TO 195+94.095	LT/RT	30.5	50.0	
TOTAL		244.0	405.75	

SUMMARY OF SIDEDRAIN & MITERED END SECTIONS

LOCATION STA. TO STA.	SIDE	REINFORCED CONCRETE PIPE						SOD (M2)
		375 mm MES (EA)	450 mm MES (EA)	600 mm MES (EA)	750 mm MES (EA)	900 mm MES (EA)		
							BRIDGE NO. 050031	
P 195+11.000 TO 195+22.000	RT				2		2	8.0
F 195+89.000 TO 196+00.000	LT				2		2	8.0
PROJECT TOTAL								
				4		4		16.0

[Handwritten Signature]
7/28/96

DATE: 17/DEC/96
FILE: F:\GIS\05090\sub\summary\sum_1.dgn

REVISIONS			
DATE	BY	DESCRIPTION	DATE



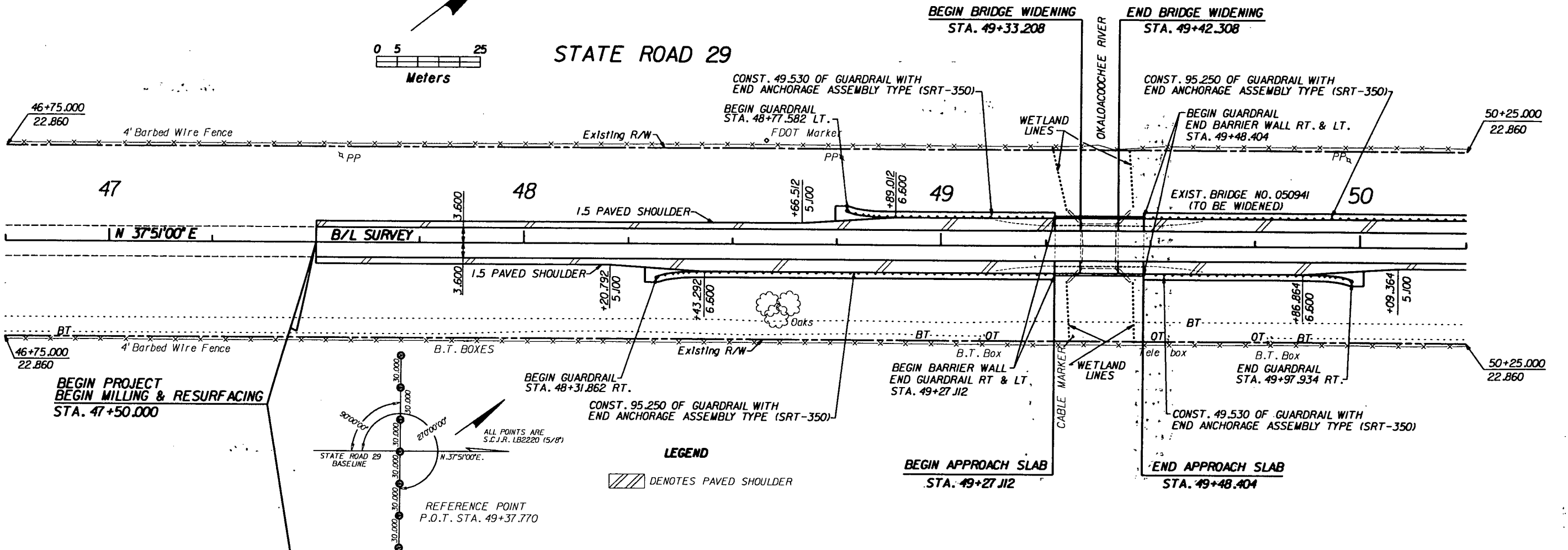
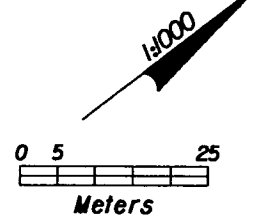
GENESIS GROUP, INC.

NAME	DATE	NAME	DATE
DESIGNED BY: DLD	3/96	DRAWN BY: TJB	3/96
CHECKED BY: HFL	3/96	CHECKED BY: DLD	3/96
SUPERVISED BY: W.J. WARDEN		APPROVED BY:	

FLORIDA DEPARTMENT OF TRANSPORTATION

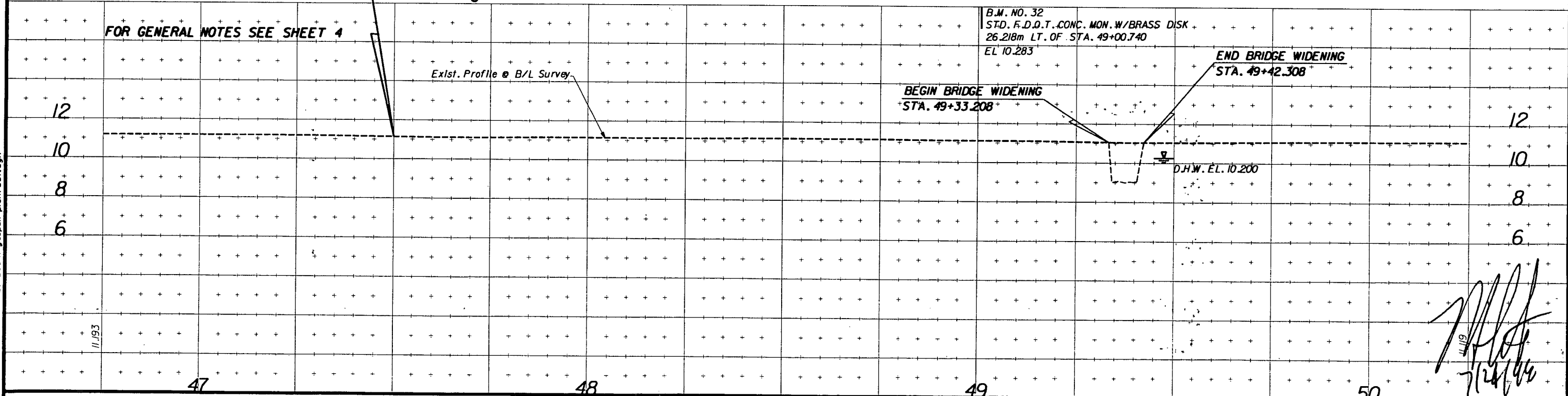
SUMMARY OF QUANTITIES

STATE ROAD 29



LEGEND
 [Hatched Box] DENOTES PAVED SHOULDER

FOR GENERAL NOTES SEE SHEET 4



DATE: FEBRUARY 1991 FILE: f:\v01\005\2050941\geopak\plan\rdi.dgn

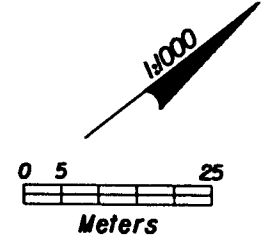
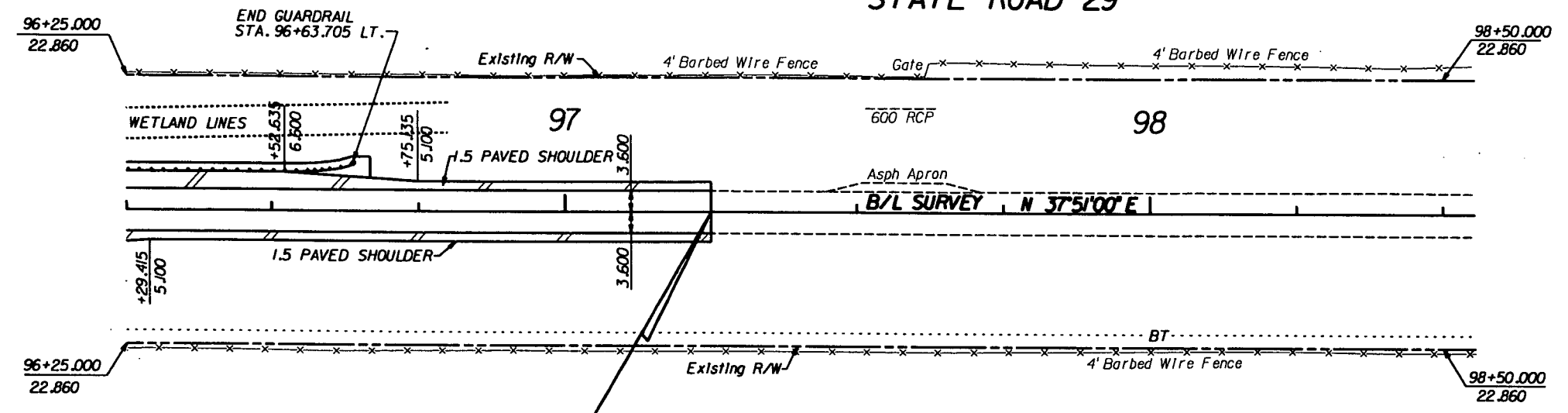
[Handwritten Signature]
 11/193

DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION

NAME	DATE	NAME	DATE
DESIGNED DLD	5/96	DRAWN BY DLD	5/96
CHECKED HFL	5/96	CHECKED TJB	5/96
SUPERVISED BY: W.J. WARREN		APPROVED BY:	

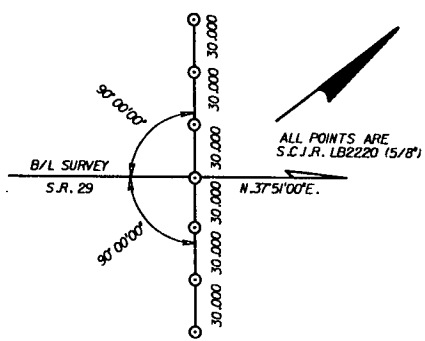
ROADWAY PLAN/PROFILE (1)
BRIDGE NO. 050941

STATE ROAD 29

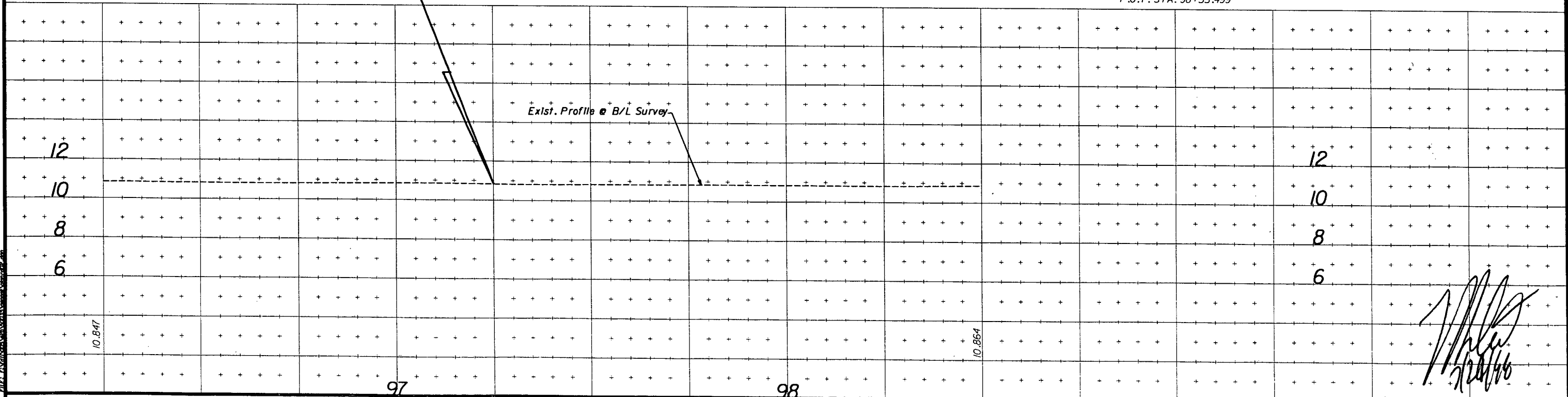


**END CONSTRUCTION
END MILLING & RESURFACING
BEGIN EXCEPTION
STA. 97+25.000**

LEGEND
 DENOTES PAVED SHOULDER



REFERENCE POINT
P.O.T. STA. 98+55.499



[Handwritten Signature]
5/22/96

DATE: 5-22-96 BY: WJW
DATE: 5-22-96 BY: WJW

DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION

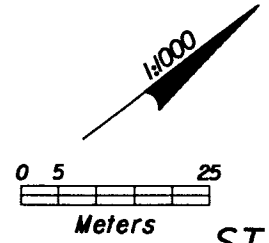
REVISIONS

GENESIS GROUP, INC.

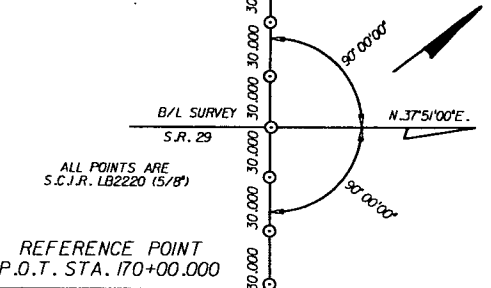
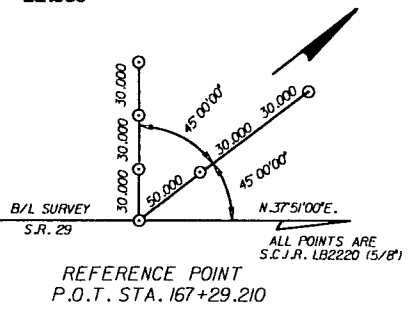
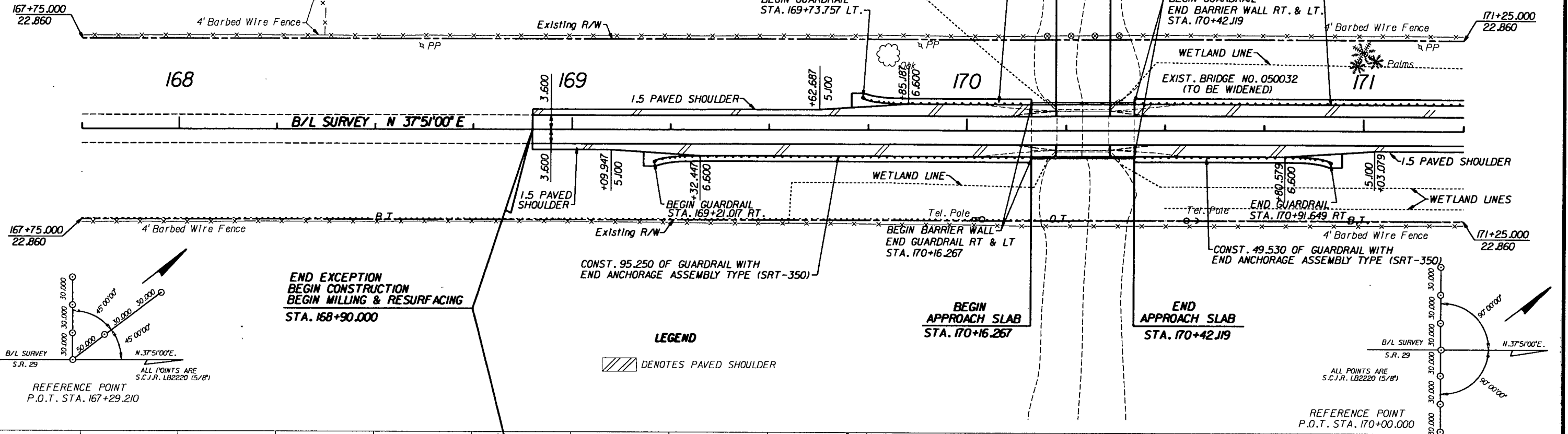
NAME	DATE	NAME	DATE
DESIGNED BY: DLD	5/96	DRAWN BY: DLD	5/96
CHECKED BY: HFL	5/96	CHECKED BY: TJB	5/96
SUPERVISED BY: W.J. WARDEN		APPROVED BY: _____	

FLORIDA DEPARTMENT OF
TRANSPORTATION

**ROADWAY PLAN/PROFILE (2)
BRIDGE NO. 050035**



STATE ROAD 29



END EXCEPTION
BEGIN CONSTRUCTION
BEGIN MILLING & RESURFACING
STA. 168+90.000

CONST. 95.250 OF GUARDRAIL WITH
END ANCHORAGE ASSEMBLY TYPE (SRT-350)

BEGIN
APPROACH SLAB
STA. 170+16.267

END
APPROACH SLAB
STA. 170+42.119

LEGEND
[Hatched box symbol] DENOTES PAVED SHOULDER

FOR GENERAL NOTES SEE SHEET 4

Exst. Profile @ B/L Survey

B.M. NO. 44
STD. F.D.O.T. CONC. MON. W/BRASS+DISK
50.903m LT. OF STA. 169+70.179
EL. 11.643

BEGIN BRIDGE WIDENING
STA. 170+22.363

END BRIDGE WIDENING
STA. 170+36.023

D.H.W. EL. 11.820

DATE: 28-May-96 14:33 FILE: F:\PROJ\05\3511\plan\plan10.dwg

DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION



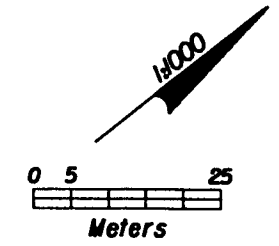
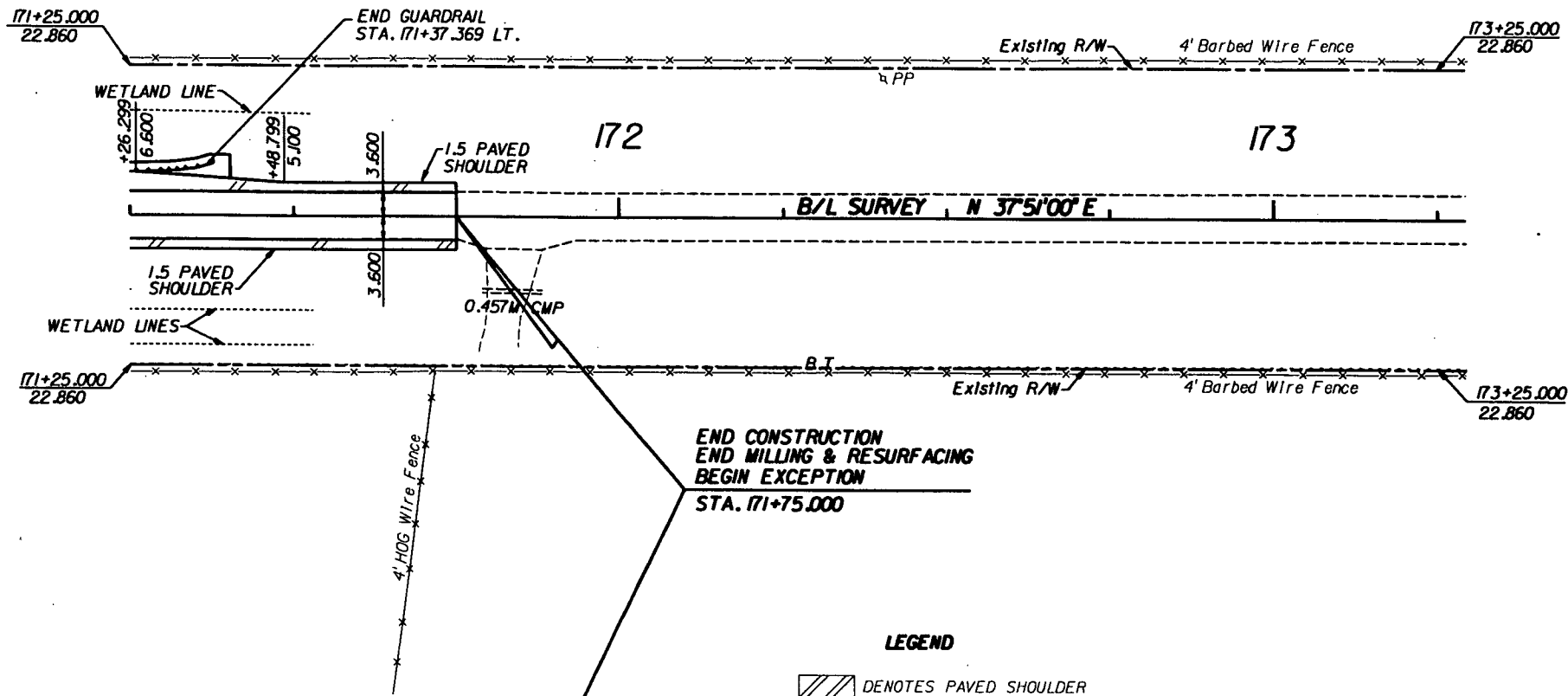
GENESIS GROUP, INC.

NAME	DATE	NAME	DATE
DESIGNED BY: DLD	5/96	DRAWN BY: DLD	5/96
CHECKED BY: HFL	5/96	CHECKED BY: TJB	5/96
SUPERVISED BY: W.J. WARDEN		DATE:	

FLORIDA DEPARTMENT OF TRANSPORTATION
APPROVED BY:

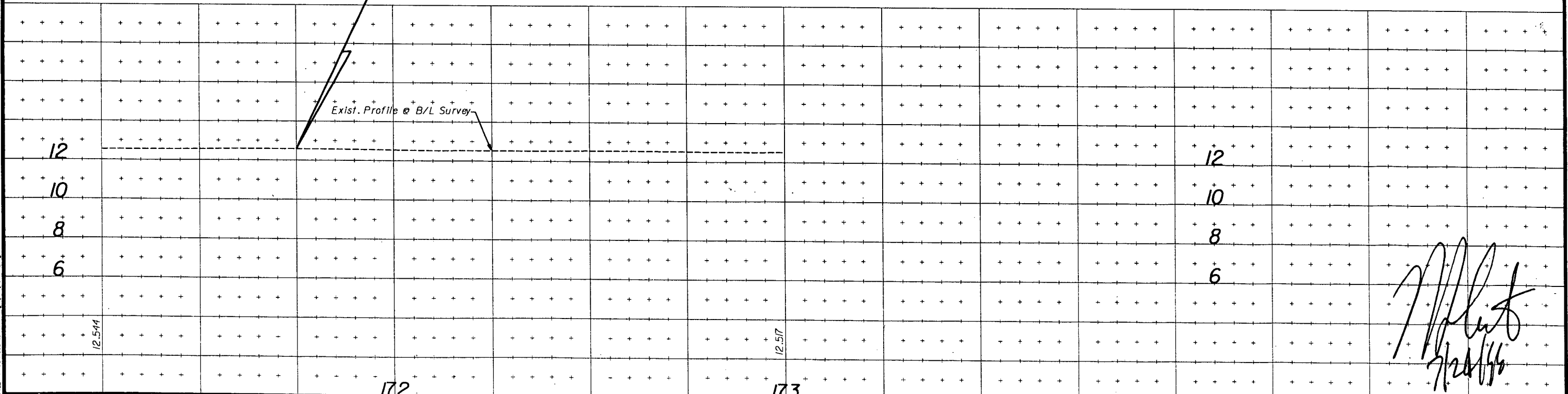
ROADWAY PLAN/PROFILE (1)
BRIDGE NO. 050032

STATE ROAD 29



LEGEND

▨ DENOTES PAVED SHOULDER



DATE: 7-10-98 BY: JWB
FILE: 050903511.dwg

DATE		BY		DESCRIPTION	

REVISIONS					
NO.	DATE	BY	DESCRIPTION	NO.	DATE



GENESIS GROUP, INC.

NAME	DATE	NAME	DATE
DESIGNED BY: DLD	5/95	DRAWN BY: DLD	5/95
CHECKED BY: HFL	5/95	CHECKED BY: TJB	5/95
SUPERVISED BY: W.J. WARDEN			

FLORIDA DEPARTMENT OF TRANSPORTATION
APPROVED BY: _____ DATE: _____

ROADWAY PLAN/PROFILE (2)
BRIDGE NO. 050032

STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION MATERIALS AND RESEARCH

DATE OF SURVEY: NOV. 30, 1995 TO JAN 16, 1996
 SURVEY MADE BY: F. DYER / H. BENNETT
 SUBMITTED BY: WILLIAMS EARTH SCIENCES, INC.

DISTRICT: ONE
 ROAD NO.: 29
 COUNTY: GLADES

PROJECT No.: 05090-3511

CROSS SECTION SOIL SURVEY FOR THE DESIGN OF ROADS

BRIDGE NO. 031 SURVEY BEGINS STA. <u>192+00</u>	SURVEY ENDS STA. <u>199+00</u>
BRIDGE NO. 032 SURVEY BEGINS STA. <u>167+00</u>	SURVEY ENDS STA. <u>174+00</u>
BRIDGE NO. 035 SURVEY BEGINS STA. <u>92+00</u>	SURVEY ENDS STA. <u>99+00</u>
BRIDGE NO. 941 SURVEY BEGINS STA. <u>46+00</u>	SURVEY ENDS STA. <u>53+00</u>

STRATUM NO.	MOISTURE CONTENT		ORGANIC CONTENT		SIEVE ANALYSIS RESULTS % PASS						ATTERBERG LIMITS (%)			L.B.R. TEST		DESCRIPTION	CORROSION TEST RESULTS						
	NO. OF TESTS	% MOISTURE	NO. OF TESTS	% ORGANIC	NO. OF TESTS	4 MESH	10 MESH	40 MESH	60 MESH	100 MESH	200 MESH	NO. OF TESTS	LIQUID LIMIT	PLASTIC INDEX	AASHTO GROUP		NO. OF TESTS	LBR VALUE	NO. OF TESTS	RESISTIVITY Ohms cm ³	CHLORIDE ppm	SO ₄ ppm	pH
1	-	-	3	2-4	7	90-100	88-100	66-83	40-59	17-29	3-9	-	-	-	A-3	9	12-35	BROWN TO LIGHT BROWN FINE SAND	4	5,100-10,000+	60-120	<2	6.1-7.3
2	4	17-26	-	-	7	98-99	96-100	78-88	52-65	28-37	11-20	2	24-26	6-7	A-2-4	3	16-18	BROWN TO LIGHT BROWN FINE SLIGHTLY CLAYEY TO SILTY FINE SAND	-	-	-	-	-
3	1	28	-	-	1	-	-	-	-	-	27	1	41	26	A-2-6, A-7-6	-	-	BROWN CLAYEY FINE SAND	-	-	-	-	-
4	7	23-61	7	5-14	7	-	100	89	62	44	15-34	-	-	-	A-8	-	-	DARK GRAY SILTY FINE SAND WITH FINELY DIVIDED ORGANIC MATTER	-	-	-	-	-

EMBANKMENT AND SUBGRADE MATERIAL

STRATA BOUNDARIES ARE APPROXIMATE MAKE FINAL CHECK AFTER GRADING.
 ∇ = WATER TABLE ENCOUNTERED

NOTE #1

THE MATERIAL FROM STRATUM NUMBER 1 APPEARS SATISFACTORY FOR USE IN THE EMBANKMENT WHEN UTILIZED IN ACCORDANCE WITH INDEX 505.

NOTE #2

THE MATERIAL FROM STRATUM NUMBER 2 APPEARS SATISFACTORY FOR USE IN THE EMBANKMENT WHEN UTILIZED IN ACCORDANCE WITH INDEX 505. HOWEVER, THIS MATERIAL IS LIKELY TO RETAIN EXCESS MOISTURE AND MAY BE DIFFICULT TO DRY AND COMPACT. IT SHOULD BE USED IN THE EMBANKMENT ABOVE WATER LEVEL EXISTING AT THE TIME OF CONSTRUCTION.

NOTE #3

THE MATERIAL FROM STRATUM NUMBER 3 IS PLASTIC A-2-6, OR A-7-6 MATERIAL AND SHALL BE REMOVED IN ACCORDANCE WITH INDEX 500. IT MAY REMAIN IN PLACE ABOVE THE EXISTING WATER LEVEL (AT THE TIME OF CONSTRUCTION) TO WITHIN 1.2 METERS OF THE PROPOSED BASE. IT SHOULD BE PLACED UNIFORMLY IN THE LOWER PORTION OF THE EMBANKMENT FOR SOME DISTANCE ALONG THE PROJECT RATHER THAN FULL DEPTH FOR SHORT DISTANCES.

NOTE #4

THE MATERIAL FROM STRATUM NUMBER 4 IS MUCK/A-8 MATERIAL AND SHALL BE REMOVED IF ENCOUNTERED DURING CONSTRUCTION BELOW THE PROPOSED WIDENING AREAS, OR IF ENCOUNTERED DURING THE PLACEMENT OF DRAINAGE STRUCTURES.

C311022 SOILSURV

DATE		BY		DESCRIPTION		DATE		BY		DESCRIPTION		DATE		BY		DESCRIPTION	

DESIGNED BY	NAME	DATE	DRAWN BY	NAME	DATE	APPROVED BY	
CHECKED BY	HCB	4-96	CHECKED BY	TEJ	4-96	<i>[Signature]</i>	
	KDB	4-96		HCB	4-96		
SUPERVISED BY		K. D. BENNETT, P.E.					

FLORIDA DEPARTMENT OF
TRANSPORTATION

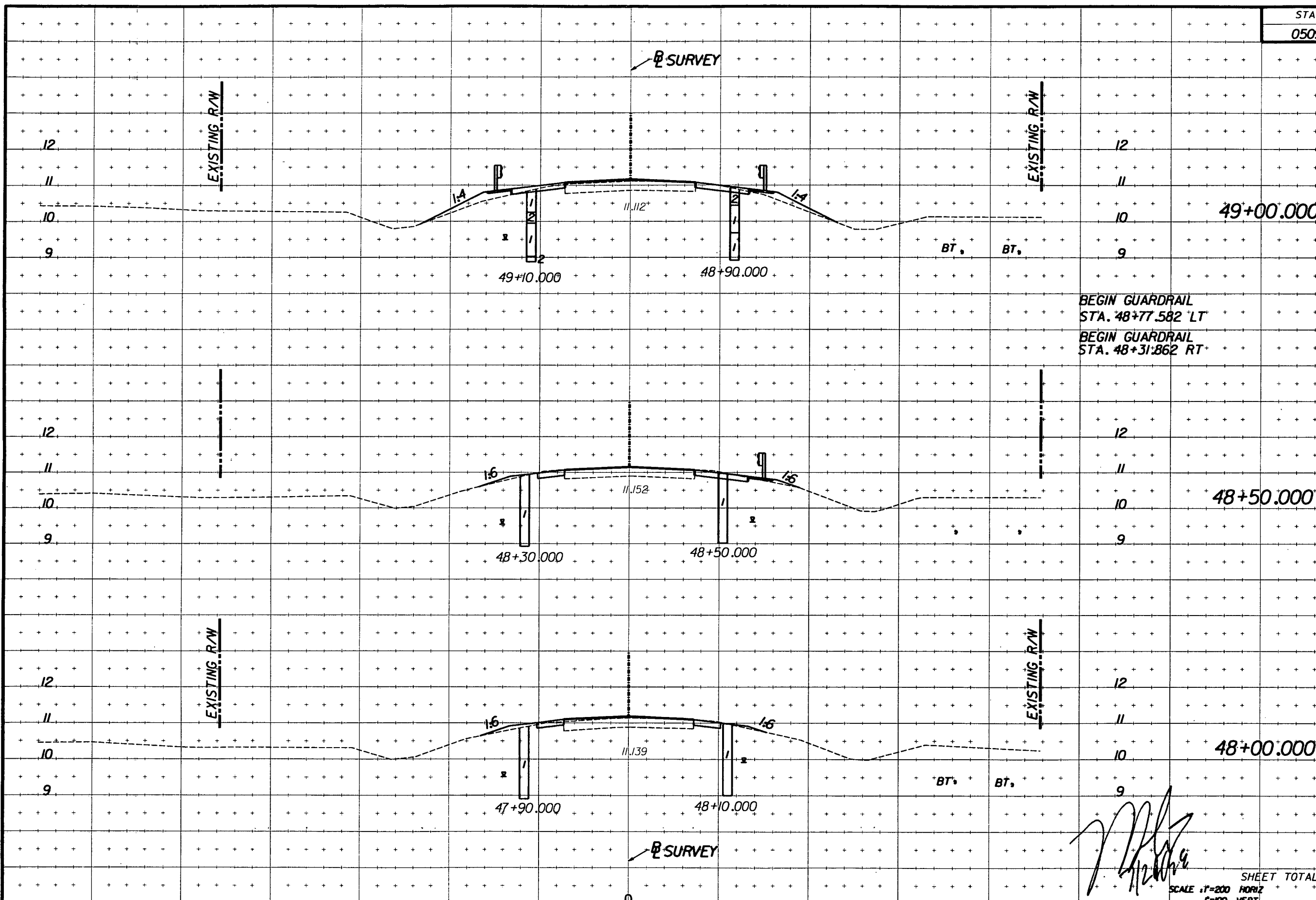
WILLIAMS
EARTH SCIENCES, INC.

ROADWAY SOILS SURVEY

A-2.A-3 Mail.

Roady E.C. FM

A V A V



BEGIN GUARDRAIL STA. 48+77.582 LT
 BEGIN GUARDRAIL STA. 48+31.862 RT

	0.5	1.2		
			25.0	32.5
	0.5	0.1		
			22.5	10.0
	0.4	0.3		
			22.5	12.5
SHEET TOTAL	70.0	55.0		

[Handwritten Signature]

SCALE: 1"=200' HORIZ
 1"=100' VERT

DATE: 2-May-96 08:41
 FILE: f:\rd110050\02505094\0\rdxsrd01.sh

REVISIONS			
DATE	BY	DESCRIPTION	DATE



GENESIS GROUP, INC.

NAME	DATE	NAME	DATE
DESIGNED BY: DLD	6/96	DRAWN BY: DLD	6/96
CHECKED BY: HFL	6/96	CHECKED BY: TJB	6/96
SUPERVISED BY: W.J. WARDEN		DATE:	

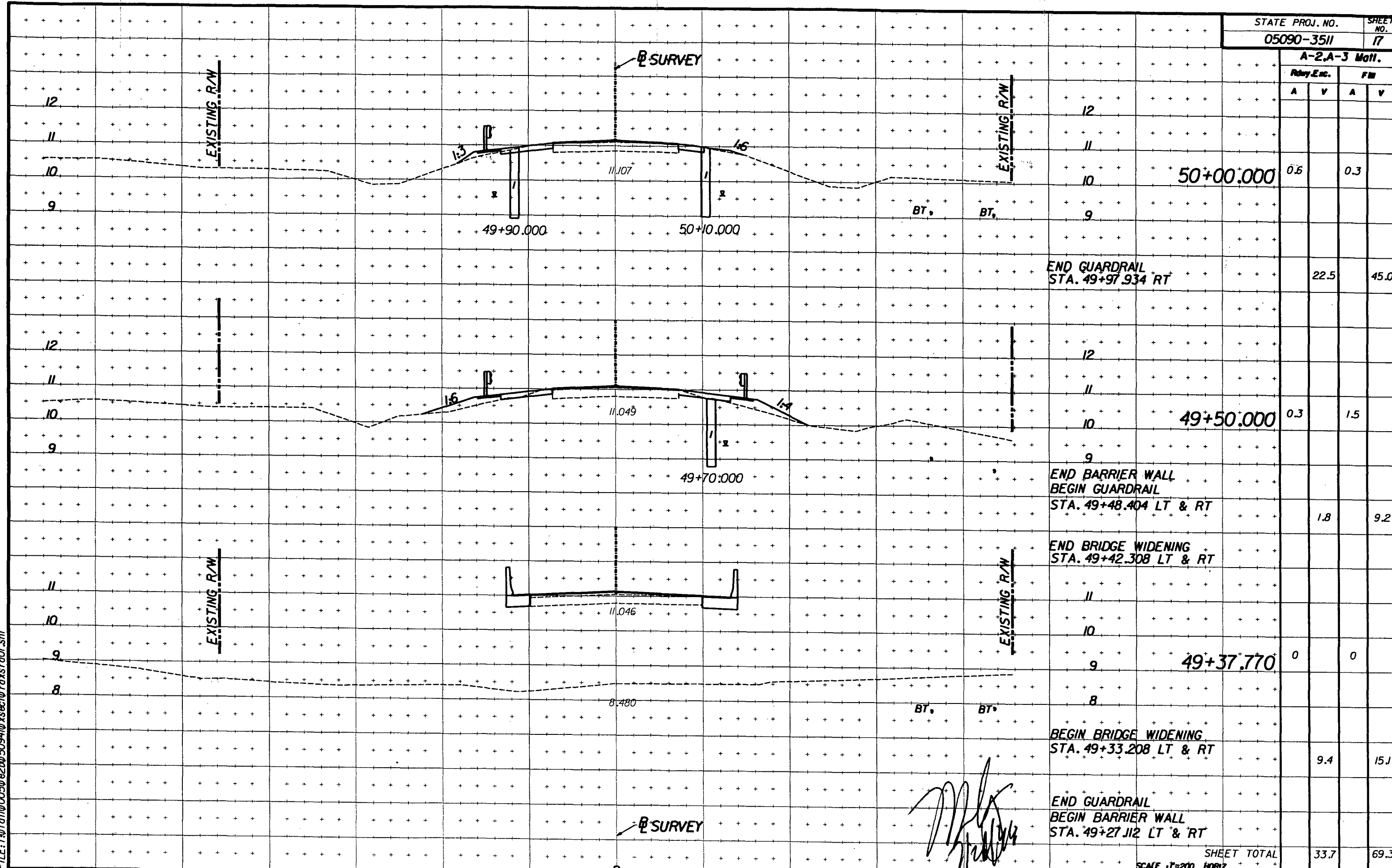
FLORIDA DEPARTMENT OF TRANSPORTATION
 APPROVED BY:

CROSS SECTIONS (2)
BRIDGE NO. 050941

A-2.A-3 Motl.

Rdy.Eac. FM

A V A V



Station	A	V	A	V
50+00.000	0.6		0.3	
49+50.000	0.3		1.5	
49+37.770	0		0	
SHEET TOTAL				
33.7 69.3				

END GUARDRAIL
STA. 49+97.934 RT

END BARRIER WALL
BEGIN GUARDRAIL
STA. 49+48.404 LT & RT

END BRIDGE WIDENING
STA. 49+42.308 LT & RT

BEGIN BRIDGE WIDENING
STA. 49+33.208 LT & RT

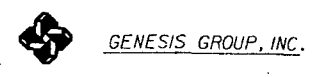
END GUARDRAIL
BEGIN BARRIER WALL
STA. 49+27.112 LT & RT

[Handwritten Signature]

SCALE 1"=200' HORIZ
1"=100' VERT

DATE: 2-May-96 08:11 FILE: f:\rt1\005\0509410\0509410\rd\rd01.sht

DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION



NAME	DATE	NAME	DATE
DESIGNED BY: DLD	6/96	DRAWN BY: DLD	6/96
CHECKED BY: HFL	6/96	CHECKED BY: TJB	6/96
SUPERVISED BY: W.J. WARDEN			

FLORIDA DEPARTMENT OF TRANSPORTATION
APPROVED BY: *[Signature]*
DATE:

**CROSS SECTIONS (3)
BRIDGE NO. 050941**

A-2,A-3 Mill.

Roady Exc. F.M.

A V A V

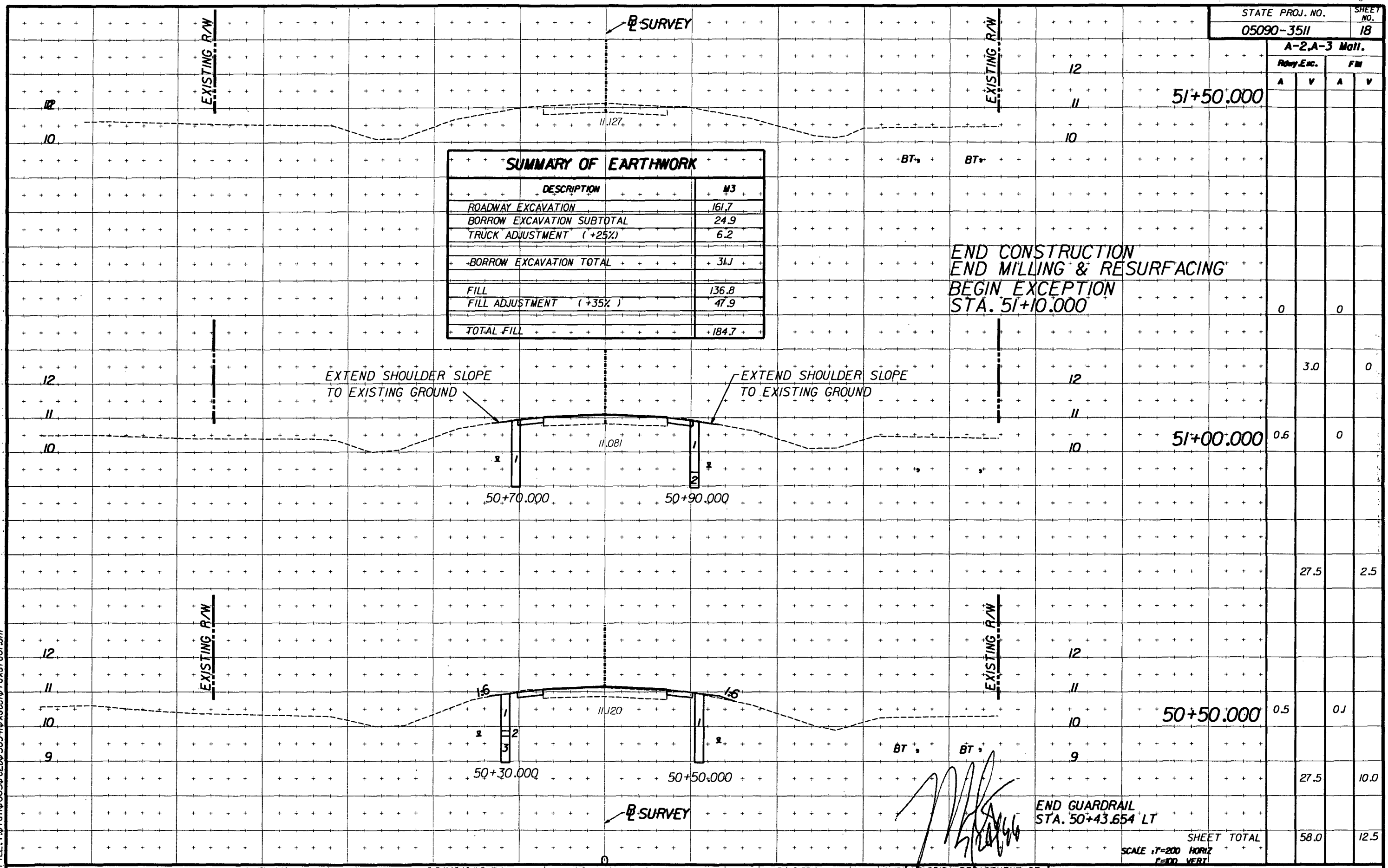
SUMMARY OF EARTHWORK	
DESCRIPTION	#3
ROADWAY EXCAVATION	161.7
BORROW EXCAVATION SUBTOTAL	24.9
TRUCK ADJUSTMENT (+25%)	6.2
BORROW EXCAVATION TOTAL	31.1
FILL	136.8
FILL ADJUSTMENT (+35%)	47.9
TOTAL FILL	184.7

END CONSTRUCTION
END MILLING & RESURFACING
BEGIN EXCEPTION
STA. 51+10.000

EXTEND SHOULDER SLOPE
TO EXISTING GROUND

EXTEND SHOULDER SLOPE
TO EXISTING GROUND

DATE: 2-May-96 08:11
FILE: r:\fd\0050\0260\509410\sect01\rdxsr01.sht



Station	Roady Exc. A	Roady Exc. V	F.M. A	F.M. V
51+50.000				
51+00.000	0.6	0	0	0
50+50.000	0.5	0.1		
50+30.000	27.5	10.0		
SHEET TOTAL	58.0	12.5		

END GUARDRAIL
STA. 50+43.654 LT

SCALE: 1"=200' HORIZ
1"=100' VERT

DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION



GENESIS GROUP, INC.

NAME	DATE	NAME	DATE
DLD	6/96	DLD	6/96
HFL	6/96	TJB	6/96

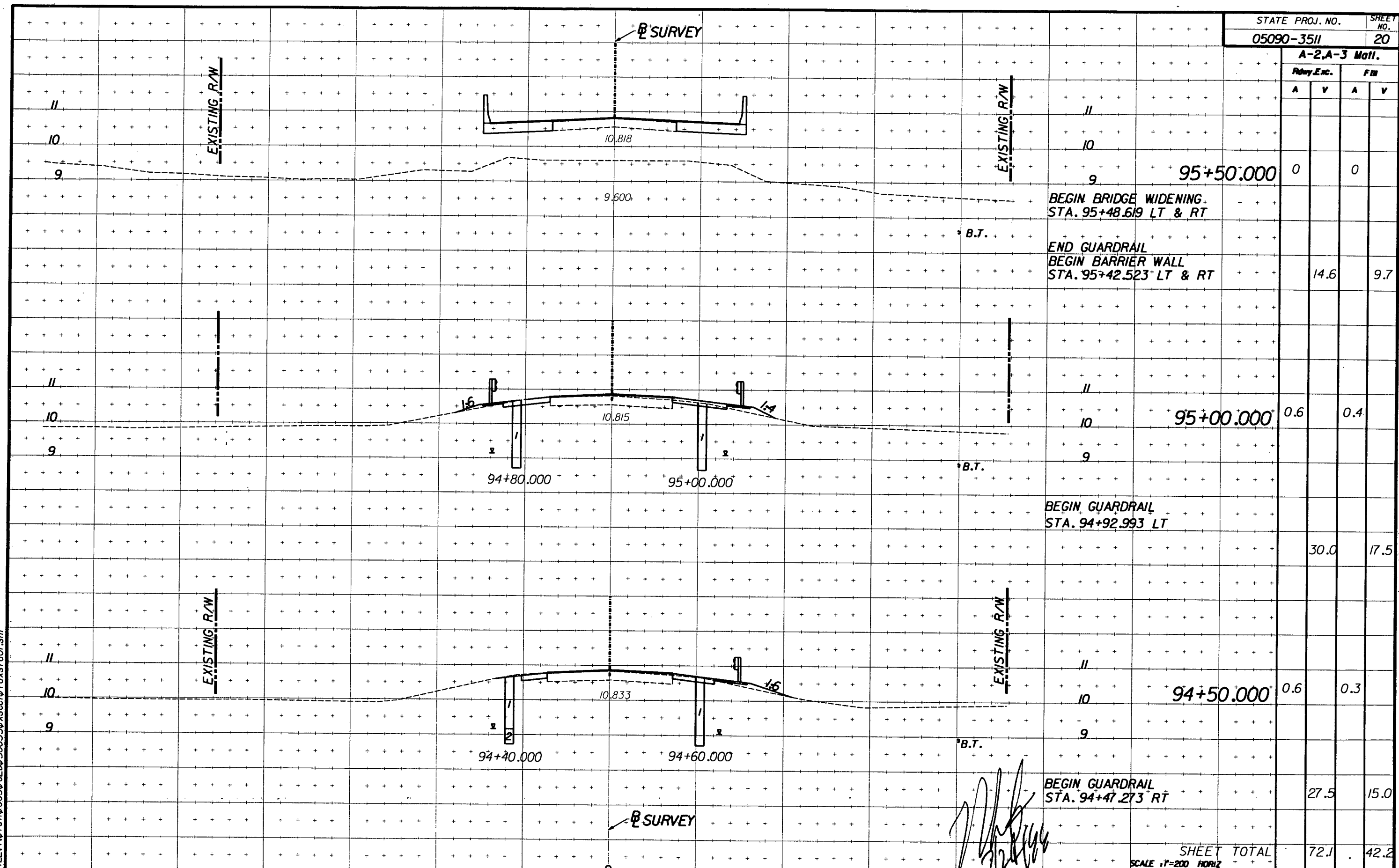
FLORIDA DEPARTMENT OF
TRANSPORTATION
APPROVED BY: [Signature]
DATE:

CROSS SECTIONS (4)
BRIDGE NO. 050941

A-2,A-3 Motl.

Rdy.E.nc. FIN

A V A V



Rdy.E.nc.		FIN	
A	V	A	V
	0		0
		14.6	9.7
	0.6		0.4
		30.0	17.5
	0.6		0.3
		27.5	15.0
		72.1	42.2

SHEET TOTAL
SCALE 1"=200' HORIZ
1"=100' VERT

DATE: 2-May-96 07:59
FILE: f:\fd1\0050\2500500350.xsec\rdvsr001.sht

REVISIONS

DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION



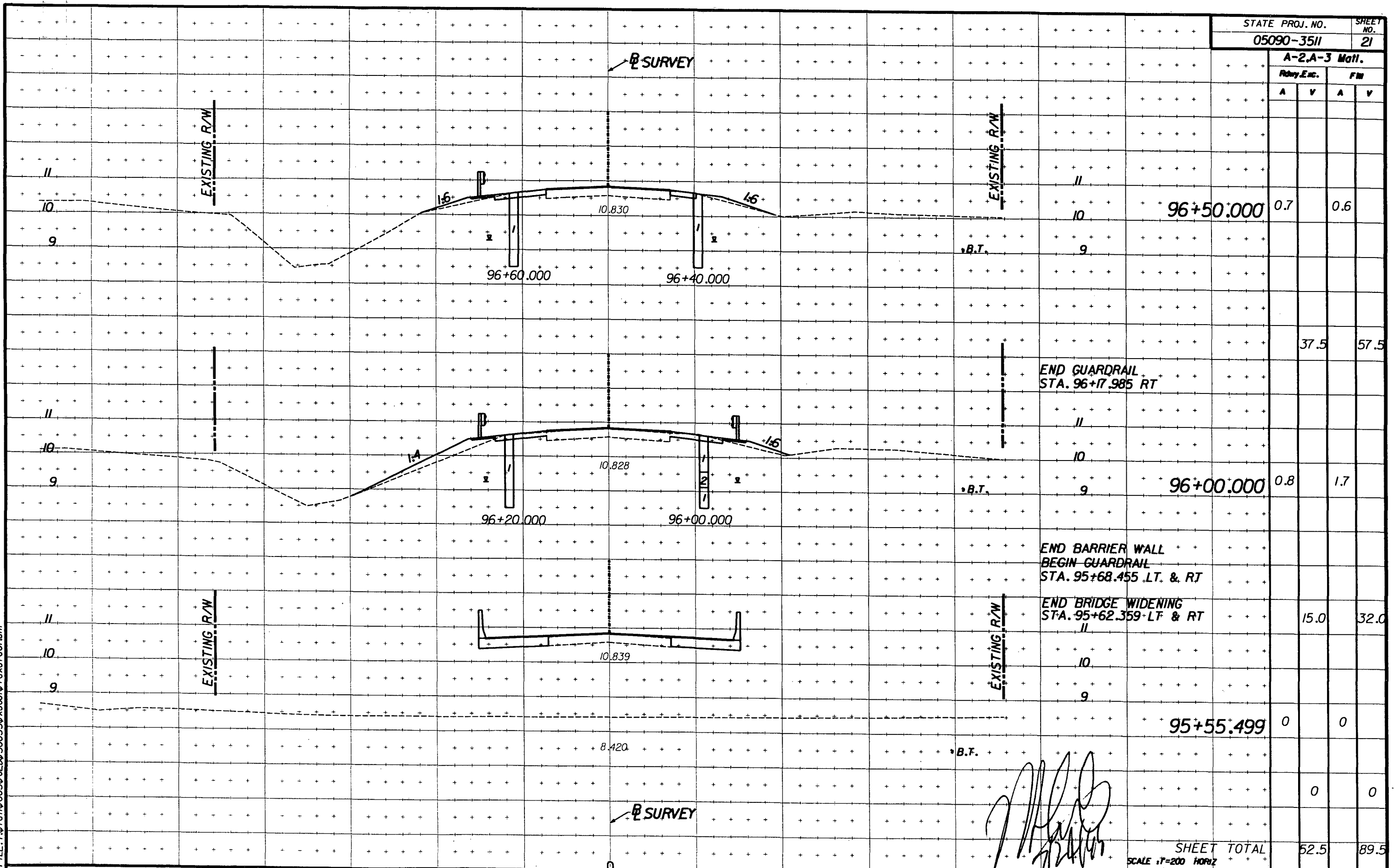
GENESIS GROUP, INC.

NAME	DATE	NAME	DATE
DESIGNED BY: DLD	6/96	DRAWN BY: DLD	6/96
CHECKED BY: HFL	6/96	CHECKED BY: TJB	6/96
SUPERVISED BY: W.J. WARDEN		DATE:	

FLORIDA DEPARTMENT OF TRANSPORTATION
APPROVED BY:

CROSS SECTIONS (2)
BRIDGE NO. 050035

A-2.A-3 Mall.
Rdy Exc. Fm



Station	Rdy Exc.		Fm	
	A	V	A	V
96+50.000	0.7	0.6		
			37.5	57.5
96+00.000	0.8	1.7		
			15.0	32.0
95+55.499	0	0		
			0	0
SHEET TOTAL			62.5	89.5

DATE: 2-May-96 07:59
FILE: f:\fd\0050\0250\500350\sect01.rdx\rd01.sht

DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION



GENESIS GROUP, INC.

DESIGNED BY	NAME	DATE	DRAWN BY	NAME	DATE
DLD	DLD	6/96	DLD	DLD	6/96
CHECKED BY	HFL	6/96	CHECKED BY	TJB	6/96
SUPERVISED BY:		W.J. WARDEN			

FLORIDA DEPARTMENT OF TRANSPORTATION
APPROVED BY: _____
DATE: _____

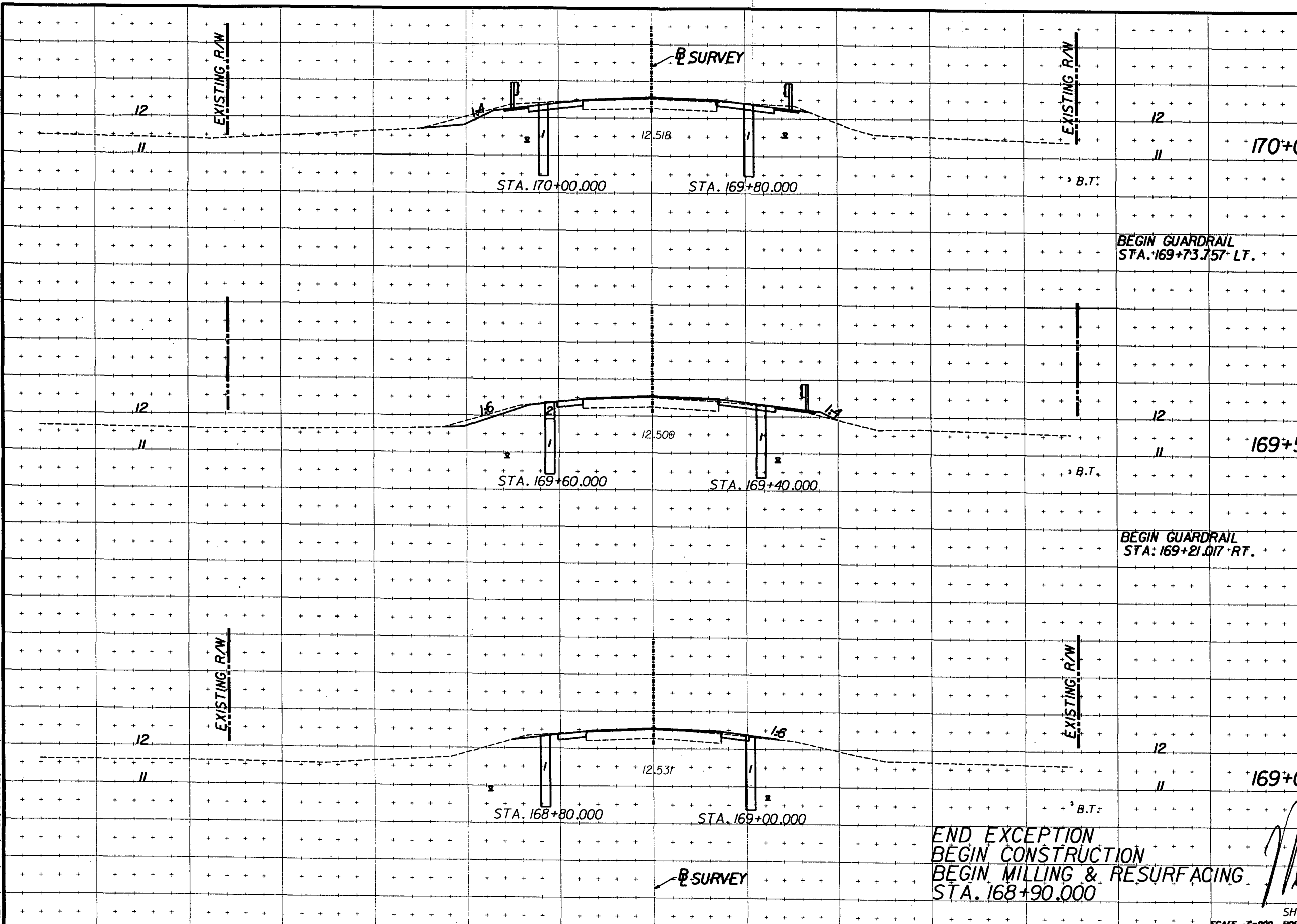
CROSS SECTIONS (3)
BRIDGE NO. 050035

SHEET TOTAL
SCALE: 1"=200' HORIZ
1"=100' VERT

A-2,A-3 Mott.

Rdy Exc. Fm

A V A V



BEGIN GUARDRAIL
STA. 169+73.757 LT.

BEGIN GUARDRAIL
STA. 169+21.017 RT.

END EXCEPTION
BEGIN CONSTRUCTION
BEGIN MILLING & RESURFACING
STA. 168+90.000

[Handwritten Signature]

SHEET TOTAL

SCALE: 1"=200' HORIZ
1"=100' VERT

170+00.000	1.9	0	70.0	2.5
169+50.000	0.9	0.1	35.0	5.0
169+00.000	0.5	0.1	2.5	0.5
	0	0	107.5	8.0

DATE: 2-May-96 07:48
FILE: F:\01\0050\6200500320\sect01\rd\sr01.sht

DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION



GENESIS GROUP, INC.

NAME	DATE	NAME	DATE
DLD	6/96	TJB	6/96
HFL	6/96	DLD	6/96

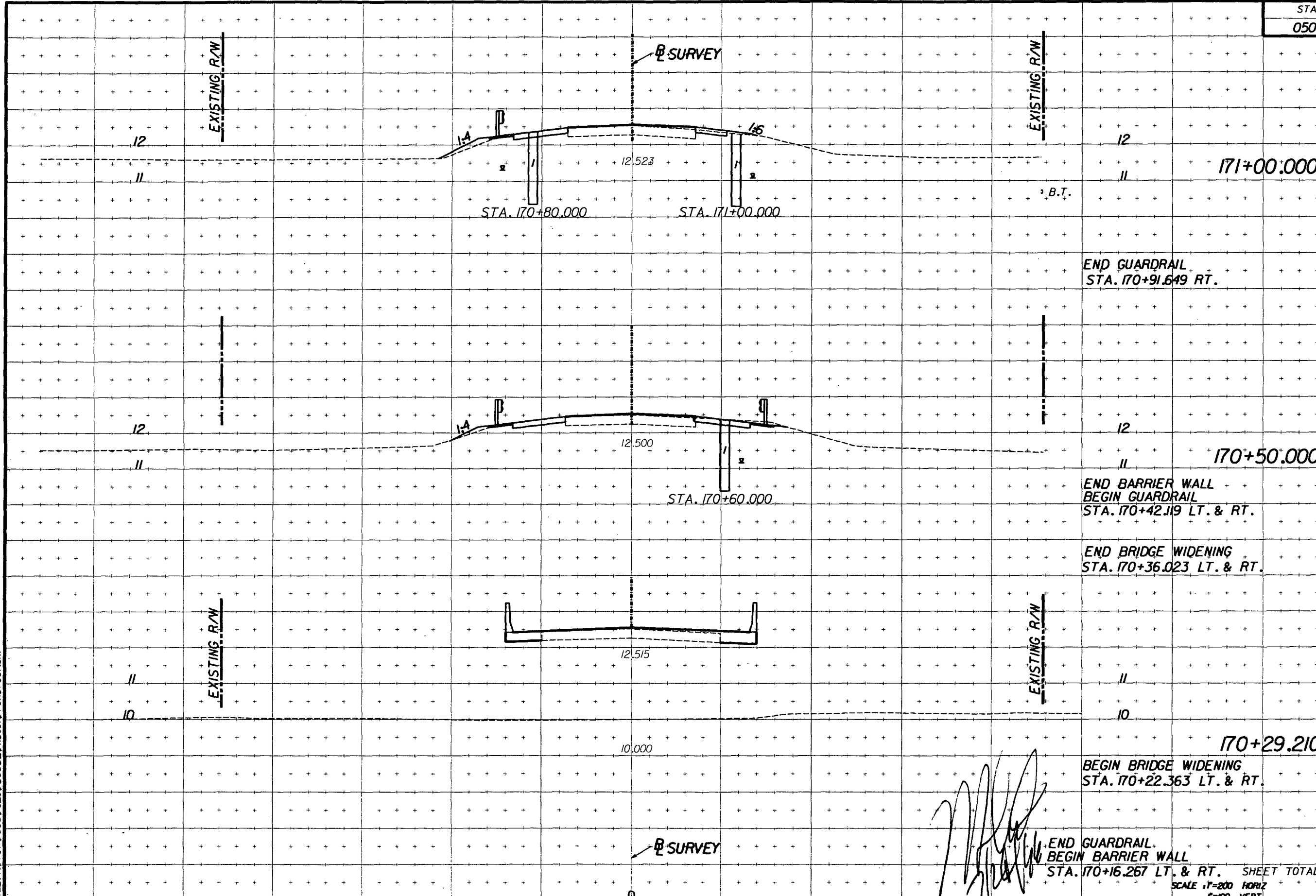
FLORIDA DEPARTMENT OF TRANSPORTATION
APPROVED BY: _____
DATE: _____

CROSS SECTIONS (1)
BRIDGE NO. 050032

A-2,A-3 Mall.

Propy. E. No. F. M.

A V A V



Station	A	V	A	V
171+00.000	0.6	0.4		
170+50.000	1.1	0.1	42.5	12.5
170+29.210	0	0	7.7	0.7
			21.2	0
	71.4			13.2

DATE: 2-May-96 07:48 FILE: f:\01\005\02\0500320\sect01\rd\sect01.sht

[Handwritten Signature]

REVISIONS			
DATE	BY	DESCRIPTION	



GENESIS GROUP, INC.

NAME	DATE	NAME	DATE
DESIGNED DLD	6/96	DRAWN BY TJB	6/96
CHECKED BY HFL	6/96	CHECKED BY DLD	6/96
SUPERVISED BY: W.J. WARDEN		APPROVED BY:	

FLORIDA DEPARTMENT OF TRANSPORTATION
APPROVED BY: _____
DATE: _____

CROSS SECTIONS (2)
BRIDGE NO. 050032

A-2,A-3 Matl.

Roadway Exc. F.M.

A	V	A	V
---	---	---	---

EXISTING R/W

EXISTING R/W

12

11

12.546

12

11

172+50.000

B.T.

12

11

12.550

12

11

172+00.000

B.T.

SUMMARY OF EARTHWORK	
DESCRIPTION	M3
ROADWAY EXCAVATION	235.2
FILL	31.2
FILL ADJUSTMENT (+35%)	11.0
TOTAL FILL	42.2
EXCESS MATERIAL	193.0

END CONSTRUCTION
END MILLING & RESURFACING
BEGIN EXCEPTION
STA. 171+75.000

EXISTING R/W

EXISTING R/W

12

11

15

12.568

13

12

171+50.000

B.T.

STA. 171+60.000

STA. 171+40.000

B-SURVEY

[Handwritten Signature]

END GUARDRAIL
STA. 171+37.369 LT.

SHEET TOTAL

SCALE: 1"=200' HORIZ
1"=100' VERT

0	0	0	0
13.8	0	0	0
42.5	10.0	0	0
56.3	10.0	0	0

DATE: 2-May-96 07:48
FILE: f:\fd\0050\0200500320\sect01\rdxsrd01.sht

DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION



GENESIS GROUP, INC.

DESIGNED BY	NAME	DATE	CHECKED BY	NAME	DATE
DLD	DLD	6/96	TJB	TJB	6/96
HFL	HFL	6/96	DLD	DLD	6/96

FLORIDA DEPARTMENT OF TRANSPORTATION
APPROVED BY: *[Signature]*
SUPERVISED BY: W.J. WARDEN

CROSS SECTIONS (3)
BRIDGE NO. 050032

TABULATION OF ESTIMATED QUANTITIES

PAY ITEM NO.	ITEM DESCRIPTION	UNIT	BRIDGE NO. 05094I				BRIDGE NO. 050035				BRIDGE NO. 050032				BRIDGE NO. 05003I				GRAND TOTAL				
			PHASE 1		PHASE 2		PHASE 3		PHASE 1		PHASE 2		PHASE 3		PHASE 1		PHASE 2			PHASE 3			
			UNITS/DAY	DAYS	UNITS/DAY	DAYS	UNITS/DAY	DAYS	UNITS/DAY	DAYS	UNITS/DAY	DAYS	UNITS/DAY	DAYS	UNITS/DAY	DAYS	UNITS/DAY	DAYS		UNITS/DAY	DAYS	UNITS/DAY	DAYS
2102-60	WORK ZONE SIGNS	ED	6	2	17	140	15	10	10	140	8	10	10	140	8	10	19	140	3	140	14	10	16208
			6	2			6	2			6	2			3	10							
			17	140			10	140			10	140			16	140							
2102-74-1	BARRICADE (TEMPORARY) (TYPES I, II, VP & DRUM)	ED	24	146	24	142	12	2	24	146	24	142	12	2	24	146	24	142	12	2	27744		
2102-77	HIGH INTENSITY FLASHING LIGHTS (TEMP - TYPE B)	ED	4	140	4	140	4	10	4	140	4	140	4	10	4	140	4	140	5	140	5	140	4930
2102-79	LIGHTS (TEMP-BARR. WALL MOUNT)(TYPE C STEADY BURN)	ED	10	140	10	8	0	0	10	140	10	8	0	0	10	140	10	8	0	0	5920		

TABULATION OF ESTIMATED QUANTITIES

PAY ITEM NO.	ITEM DESCRIPTION	UNIT	BRIDGE NO. 05094I			BRIDGE NO. 050035			BRIDGE NO. 050032			BRIDGE NO. 05003I			GRAND TOTAL
			PHASE 1	PHASE 2	PHASE 3	PHASE 1	PHASE 2	PHASE 3	PHASE 1	PHASE 2	PHASE 3	PHASE 1	PHASE 2	PHASE 3	
2102-70-11	BARRIER WALL (TEMP) (FM) (STANDARD) (CONCRETE)	MI	403.2	0	0	403.2	0	0	403.2	0	0	403.2	0	0	1612.8
2102-70-21	BARRIER WALL (TEMP) (REL) (STANDARD) (CONCRETE)	MI	0	403.2	0	0	403.2	0	0	403.2	0	0	403.2	0	1612.8
2102-78	MARKER PAVT REFLECTIVE (TEMPORARY)	EA	60	40	0	60	40	0	60	40	0	60	40	0	400
2102-81-1	IMPACT ATTENUATOR MODULES VEHIC. (INERT)(TEMP)	EA	18	18	0	18	18	0	18	18	0	18	18	0	144
2102-91-2	PAVEMENT MARKING REMOVABLE (WHITE/BLACK)(SOLID)	MI	120	120	0	120	120	0	120	120	0	120	120	0	960
2102-92-2	PAVEMENT MARKING REMOVABLE (YELLOW)(SOLID)	MI	120	120	0	120	120	0	120	120	0	120	120	0	960
2710-22	TRAFFIC STRIPE SKIP (YELLOW)	GK	0	0	0.090	0	0	0.085	0	0	0.071	0	0	0.067	0.313
2710-23-6I	TRAFFIC STRIPE SOLID (WHITE/BLACK/BLUE) 150mm	NK	0.960	0.960	0	0.920	0.920	0	0.810	0.810	0	0.776	0.776	0	6.932
2710-24-6I	TRAFFIC STRIPE SOLID (YELLOW) 150mm	NK	0.960	0.960	0	0.920	0.920	0	0.810	0.810	0	0.776	0.776	0	6.932

MOTSRD01.DGN

DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION

R E V I S I O N S

NO.	DATE	DESCRIPTION

GENESIS GROUP, INC.

DESIGNED BY	DATE	DRAWN BY	DATE
DBF	9/96	DLD	9/96
CHECKED BY	DATE	CHECKED BY	DATE
DLD	9/96	HFL	9/96
SUPERVISED BY: W.J. WARDEN		DATE:	

FLORIDA DEPARTMENT OF TRANSPORTATION

APPROVED BY: _____

PROPOSED TRAFFIC CONTROL PLAN
 S.R. 29 @ FOUR BRIDGE WIDENING
 BRIDGE NO. 050941 - OKALOACOCHEE RIVER
 BRIDGE NO. 050035 - LONE PINE CREEK
 BRIDGE NO. 050032 - YORK BRANCH
 BRIDGE NO. 050031 - TURKEY BRANCH

Maintenance Of Traffic shall conform to the Manual On Uniform Traffic Control Devices for streets and highways part VI (dated 1988), F.D.O.T. Roadway And Traffic Design Standards, Index no's 600 - 650 as applicable (dated January 1998).

GENERAL NOTES:

1. Phasing applies to all four bridge locations on SR 29
2. The work zone speed limit shall be 80 km/h (50 MPH)
3. The maximum work zone length shall be 800, open road, no restrictions.
4. Temporary pavement shall have a paved surface.

PHASE I

The purpose of Phase I is to construct the right side bridge widening adjacent to the northbound lane. Unless noted differently, perform the following operations utilizing Index No. 602 for operations no closer than 0.6 m of the travel lanes and Index No. 603 for operations between the road centerline and within 0.6 m of the travel lanes.

- Maintain two lane, two way traffic along the existing roadway.
- Install project advance warning signs reducing speed through the work areas to 50 MPH.
- Install erosion control devices.
- Construct temporary pavement adjacent to southbound lane.
- Mill existing pavement full width utilizing index no. 606.
- In order to shift traffic to the left side of the roadway install temporary pavement markings and reflective pavement markers, index no. 627 optional use.
- Reroute northbound and southbound lanes to the left utilizing the new southbound temporary pavement as part of the temporary southbound lane.
- Install precast concrete temporary barrier wall with attenuator in accordance with index no. 415.
- Clear and grub widening area behind barrier wall.
- Begin fill and stabilization operation.
- Construct right side bridge widening along with roadway, paved shoulders and structural course.
- Install guardrail and sod.

PHASE II

The purpose of Phase II is to construct the left side bridge widening adjacent to the southbound lane. Unless noted differently, perform the following operations utilizing index no. 602 for operations no closer than 0.6 m of the travel lanes and Index no. 603 for operations between the road centerline and within 0.6 m of the travel lanes.

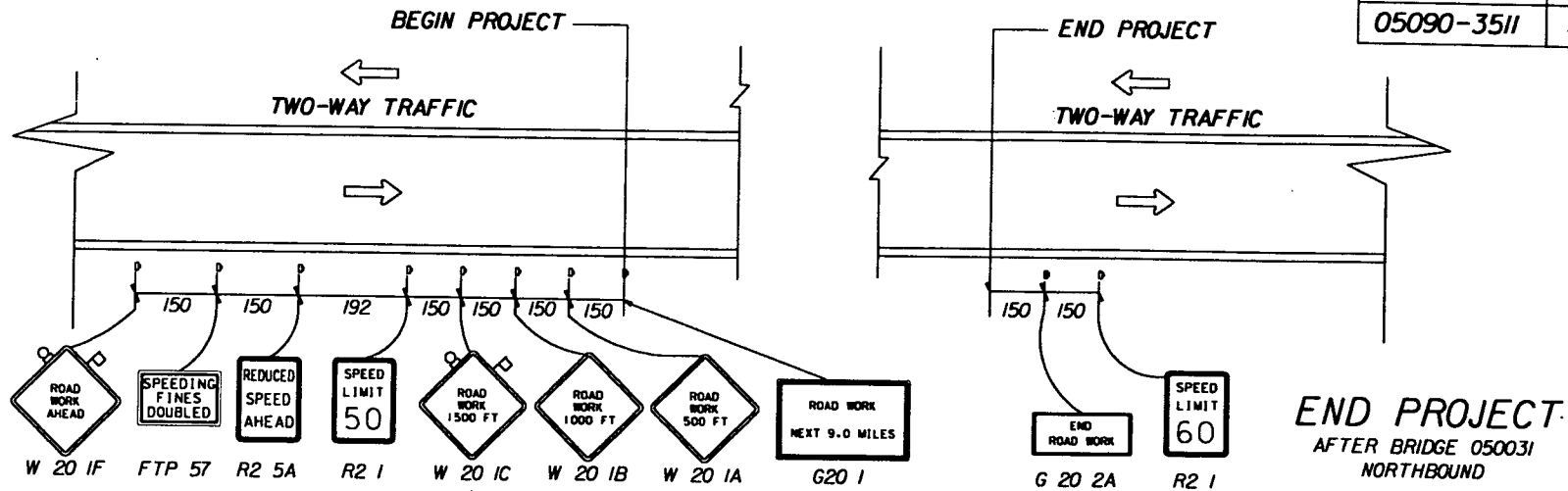
- Remove precast concrete temporary barrier wall
- Maintain two lane, two way traffic utilizing Phase I temporary southbound pavement as part of the southbound lane.
- In order to shift traffic to the right side of the roadway, install temporary pavement markings and reflective pavement markers, index no. 627 optional use. Simultaneously remove conflicting Phase I pavement markings and reflective pavement markers in anticipation of shifting traffic lanes. Contractor is cautioned to fully coordinate the removal of Phase I and placement of Phase II pavement markings to minimize confusion to the traveling public. Flagman, cones, barriers shall be used to facilitate a smooth and safe transition for this operation and will be considered incidental costs to the operation.
- Immediately after completion of the installation of temporary pavement markings and reflective pavement markers, reroute northbound and southbound lanes to the right utilizing the widened northbound pavement and paved shoulder as part of the temporary northbound lane.
- Install precast concrete temporary barrier wall with attenuator in accordance with index no. 415.
- Remove Phase I temporary pavement and balance of Phase I temporary pavement markings and reflective pavement markers behind wall.
- Clear and grub widening area behind barrier wall.
- Begin fill and stabilization operation.
- Construct left side bridge widening along with roadway, paved shoulders and structural course.
- Install guardrail and sod.

PHASE III

The purpose of Phase III is to place the balance of the Asphaltic Concrete Type S and place the Friction Course. Unless noted differently, perform the following operations utilizing Index No. 602 for operations no closer than 0.6 m of the travel lanes and Index No. 603 for operations between the road centerline and within 0.6 m of the travel lanes. Utilize index no. 627 for moving operations.

- Remove precast concrete temporary barrier wall.
- Maintain two lane, two way traffic utilizing Phase II traffic pattern on the right side of the roadway.
- In order to shift traffic to the left side of the roadway, install temporary pavement markings and reflective pavement markers, index no. 627 optional use.
- Simultaneously remove conflicting Phase II pavement markings and reflective pavement markers in anticipation of shifting traffic lanes. Contractor is cautioned to fully coordinate the removal of Phase II and placement of Phase III pavement markings to minimize confusion to the traveling public. Flagman, cones, barriers shall be used to facilitate a smooth and safe transition for this operation and will be considered incidental costs to the operation.
- Immediately after completion of the installation of temporary pavement markings and reflective pavement markers, reroute southbound traffic to the west utilizing the widened southbound lane.
- Construct balance of Asphaltic Concrete type S.
- Construct Friction Course full width in accordance with index no. 627.
- Install permanent pavement markings (paint) and permanent reflective pavement markers.

STATE PROJ. NO.	SHEET NO.
05090-3511	30



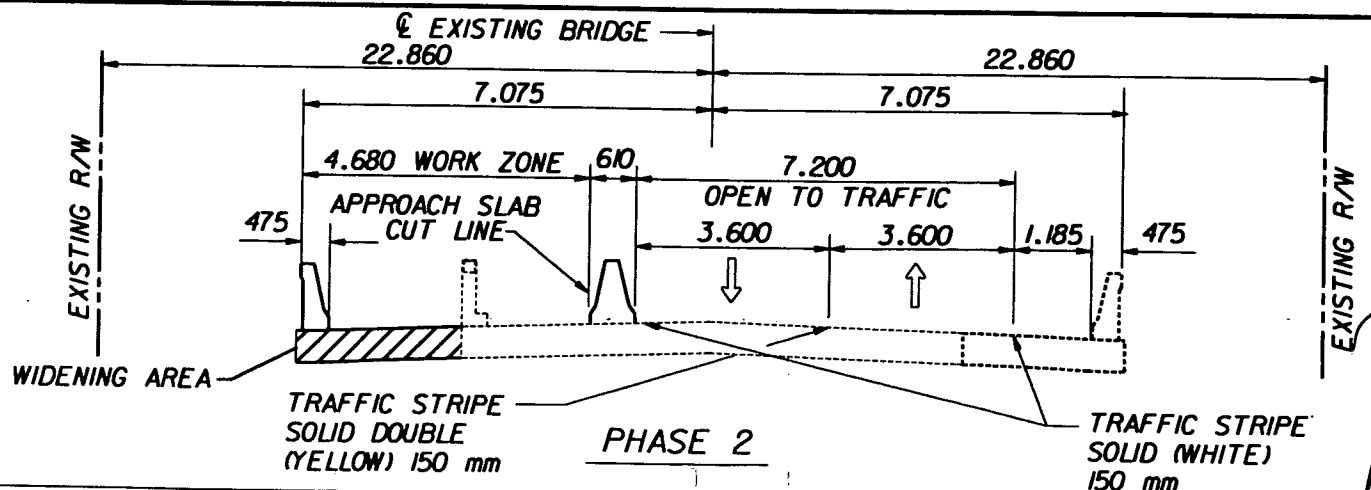
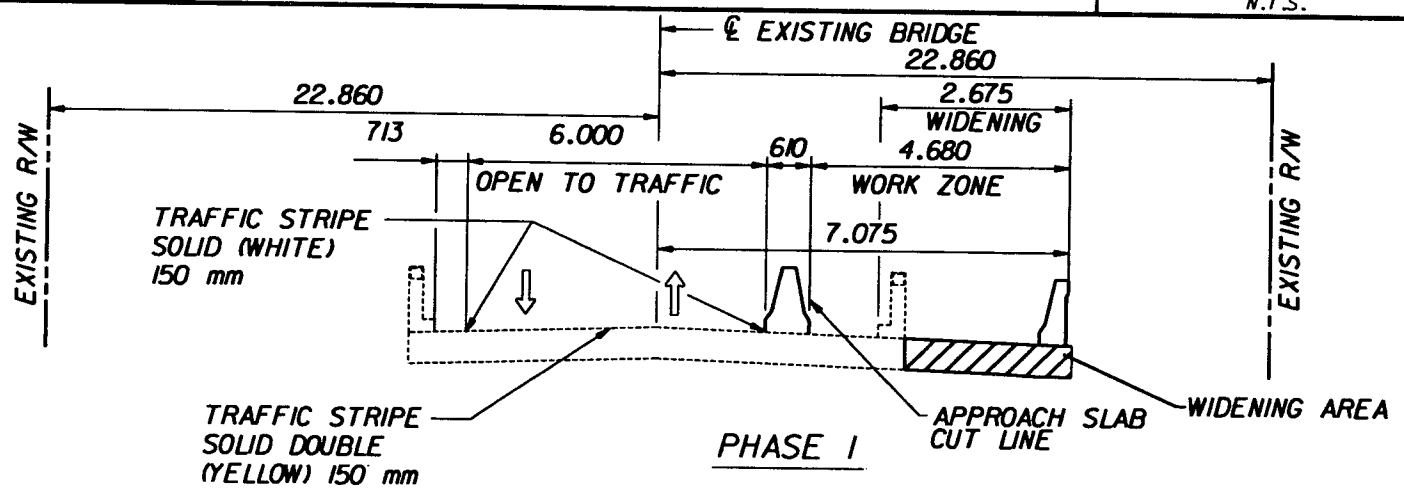
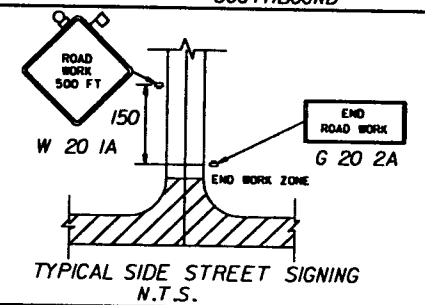
BEGIN PROJECT

PRIOR TO BRIDGE 050941 NORTHBOUND
 PRIOR TO BRIDGE 050031 SOUTHBOUND

END PROJECT

AFTER BRIDGE 050031 NORTHBOUND
 AFTER BRIDGE 050941 SOUTHBOUND

TYPICAL ADVANCE WARNING SIGNS
 NORTHBOUND & SOUTHBOUND ROADWAYS
 N.T.S.



[Handwritten signature]

REVISIONS					
DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION

GENESIS GROUP, INC.

DESIGNED BY: DBF	DATE: 9/96	DRAWN BY: DLD	DATE: 9/96	FLORIDA DEPARTMENT OF TRANSPORTATION
CHECKED BY: DLD	DATE: 9/96	CHECKED BY: HFL	DATE: 9/96	APPROVED BY:
SUPERVISED BY: W.J. WARDEN				DATE:

TRAFFIC CONTROL PLAN (2)

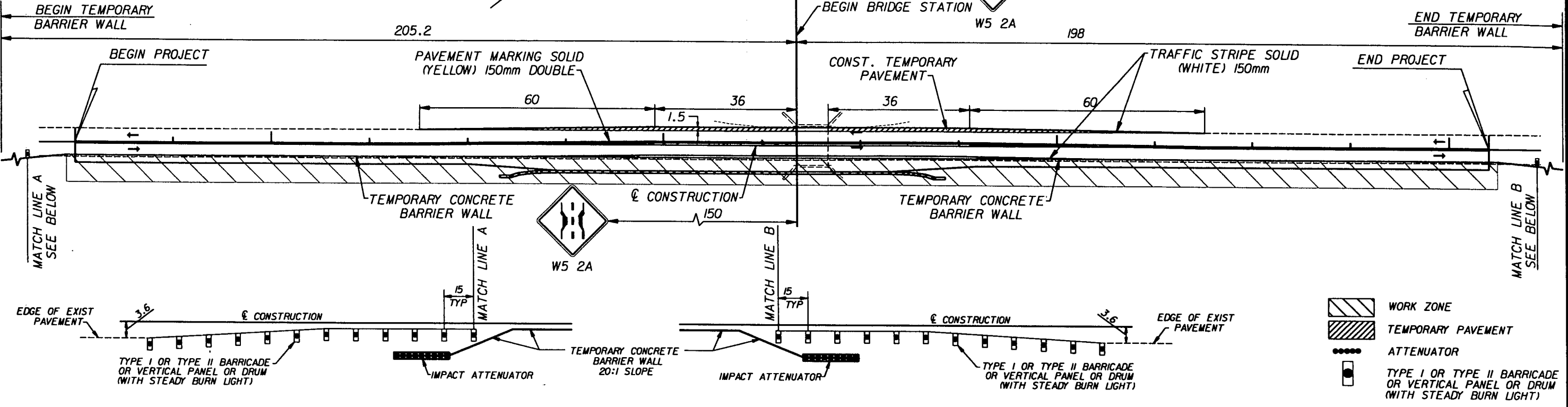
NOTE: FOR ADVANCE WARNING SIGNS SEE SHEET NO. 30
ALL MOT CALLOUTS ARE BASED ON BEGIN BRIDGE STATIONING.

S.R. 29 @ FOUR BRIDGE WIDENINGS

STATE PROJ. NO. 05090-3511
SHEET NO. 31

- BRIDGE NO. 050941 - OKALOACOCHEE RIVER
- BRIDGE NO. 050035 - LONE PINE CREEK
- BRIDGE NO. 050032 - YORK BRANCH
- BRIDGE NO. 050031 - TURKEY BRANCH

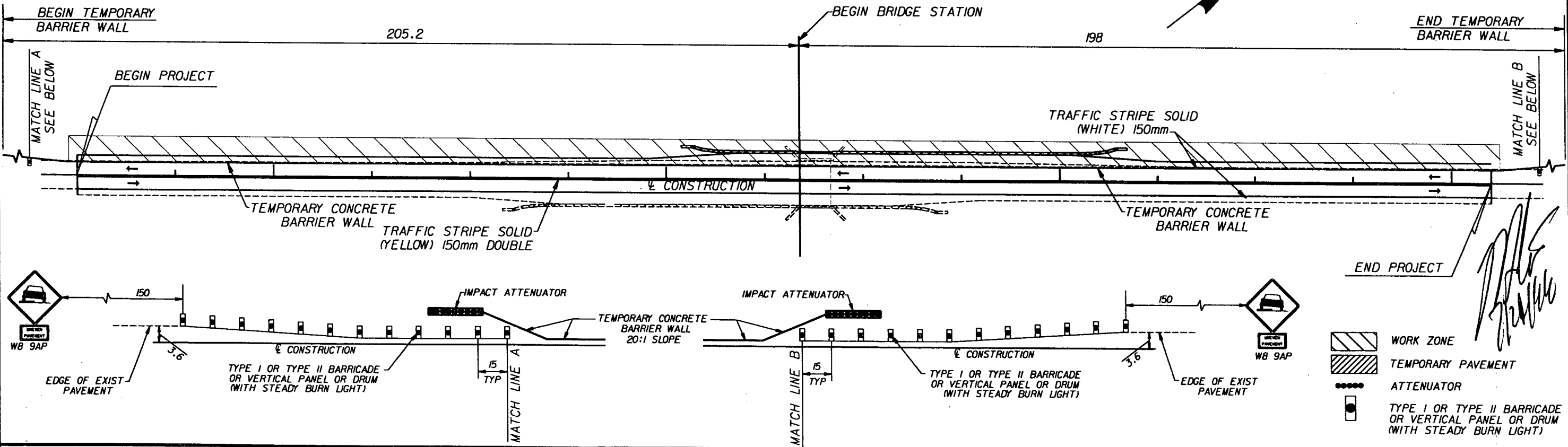
PHASE 1



- WORK ZONE
- TEMPORARY PAVEMENT
- ATTENUATOR
- TYPE I OR TYPE II BARRICADE OR VERTICAL PANEL OR DRUM (WITH STEADY BURN LIGHT)

NOTE: FOR ADVANCE WARNING SIGNS SEE SHEET NO. 30

PHASE 2



- WORK ZONE
- TEMPORARY PAVEMENT
- ATTENUATOR
- TYPE I OR TYPE II BARRICADE OR VERTICAL PANEL OR DRUM (WITH STEADY BURN LIGHT)

MOTSR002.DGN

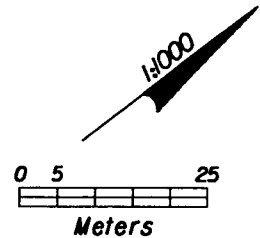
REVISIONS					
DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION

GENESIS GROUP, INC.

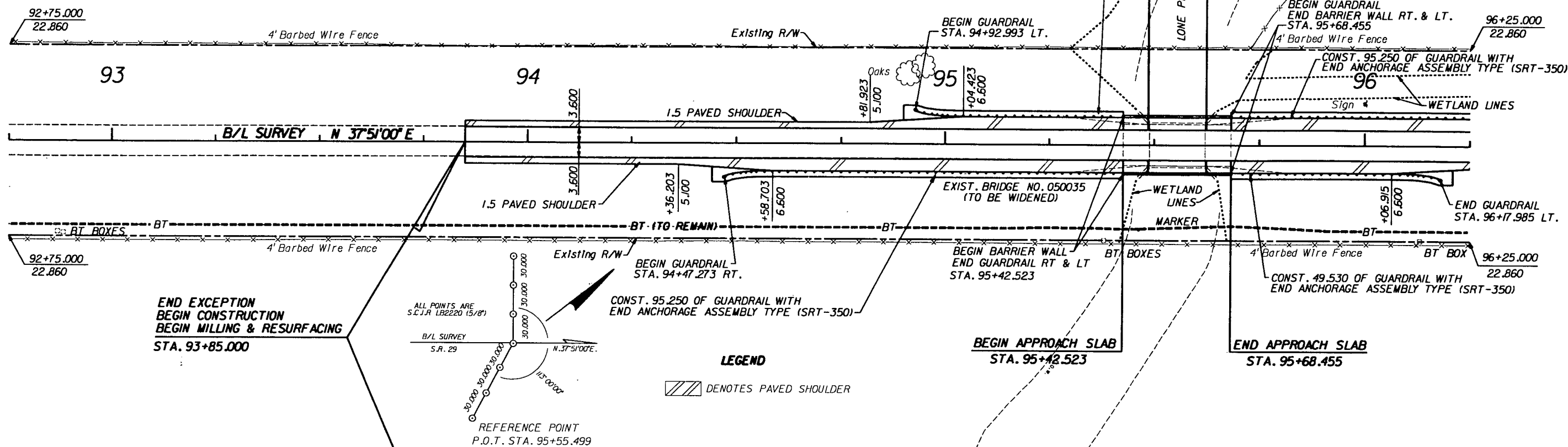
NAME	DATE	NAME	DATE
DESIGNED BY: DBF	9/96	DRAWN BY: DLD	9/96
CHECKED BY: DLD	9/96	CHECKED BY: HFL	9/96
SUPERVISED BY: W.J. WARDEN		APPROVED BY:	

FLORIDA DEPARTMENT OF TRANSPORTATION

TRAFFIC CONTROL PLAN (3)

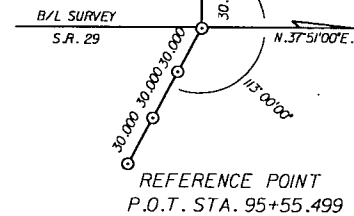


STATE ROAD 29



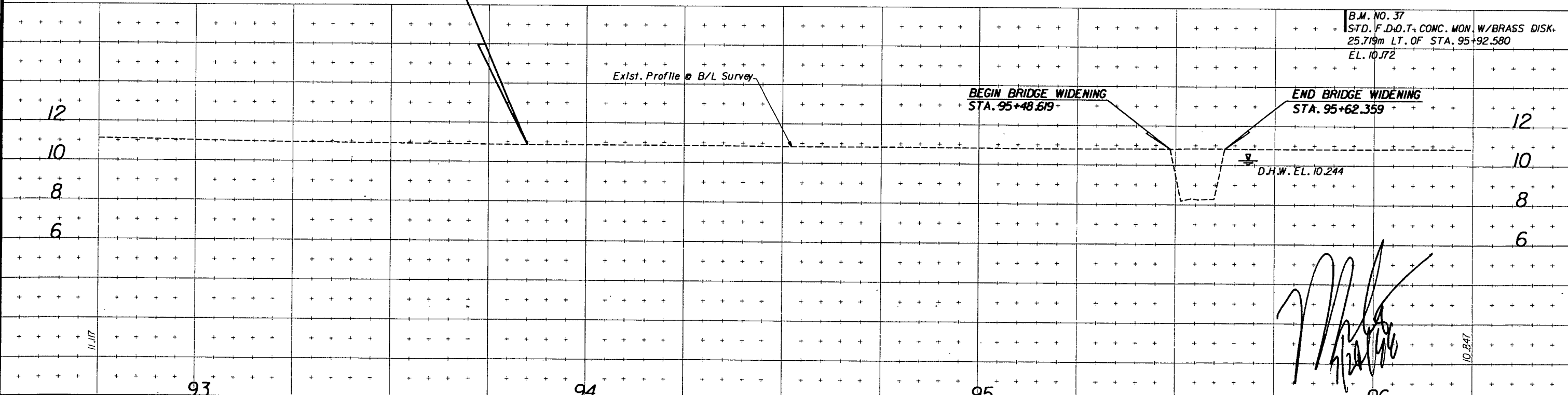
END EXCEPTION
BEGIN CONSTRUCTION
BEGIN MILLING & RESURFACING
STA. 93+85.000

ALL POINTS ARE
S.C.I.R. LB2220 (5/8")



LEGEND

/// DENOTES PAVED SHOULDER



DATE: 01-04-96 08:10 FILE: C:\win95\p050903511\refroad.dwg

REVISIONS					
DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION

GENESIS GROUP, INC.

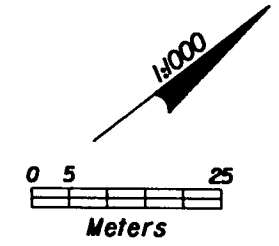
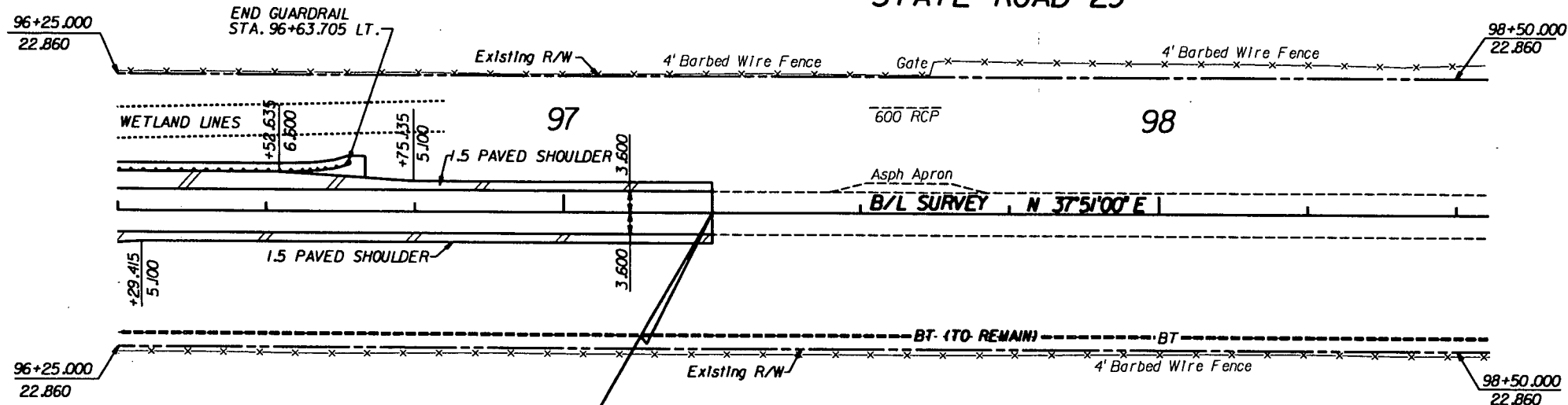
NAME	DATE	NAME	DATE
DESIGNED BY: DLD	5/96	DRAWN BY: DLD	5/96
CHECKED BY: HFL	5/96	CHECKED BY: TJB	5/96
SUPERVISED BY: W.J. WARDEN			

FLORIDA DEPARTMENT OF TRANSPORTATION
APPROVED BY: _____
DATE: _____

UTILITY ADJUSTMENT SHEET (I)
BRIDGE NO. 050035

10.847

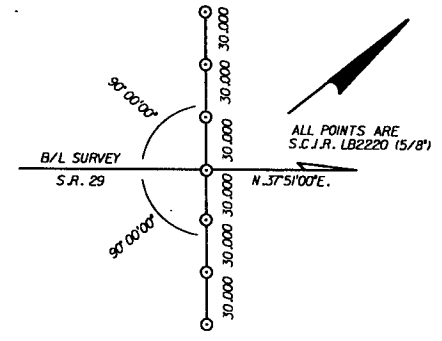
STATE ROAD 29



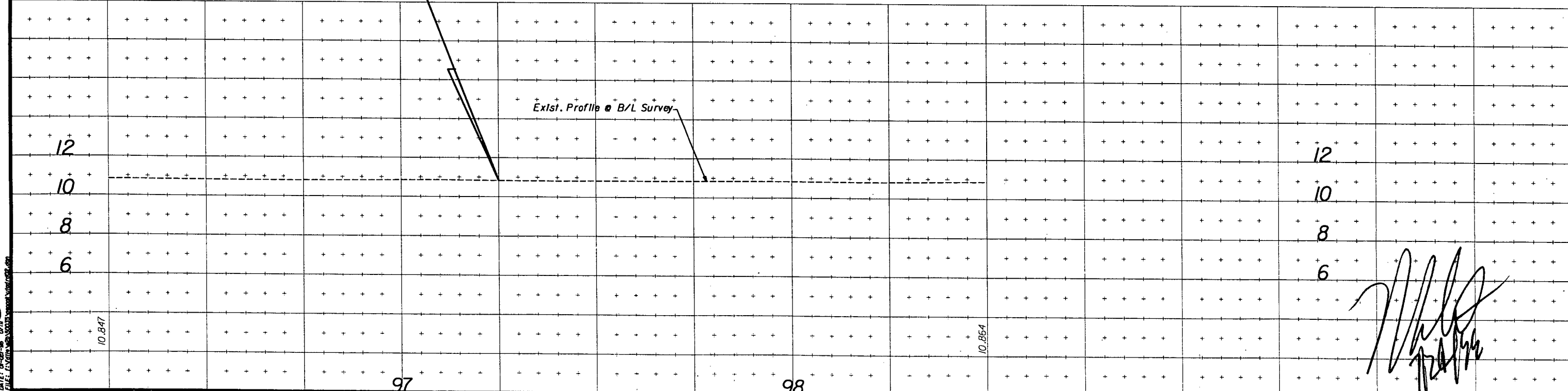
END CONSTRUCTION
END MILLING & RESURFACING
BEGIN EXCEPTION
STA. 97+25.000

LEGEND

DENOTES PAVED SHOULDER



REFERENCE POINT
P.O.T. STA. 98+55.499



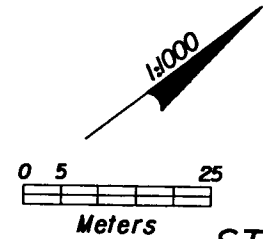
DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION

GENESIS GROUP, INC.

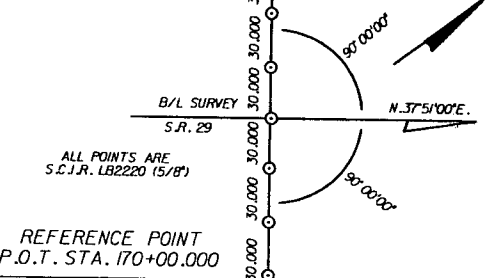
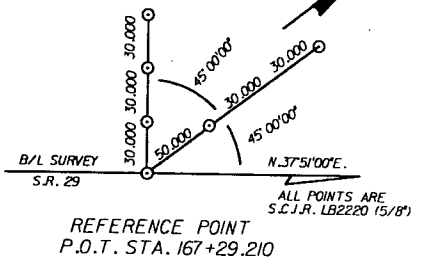
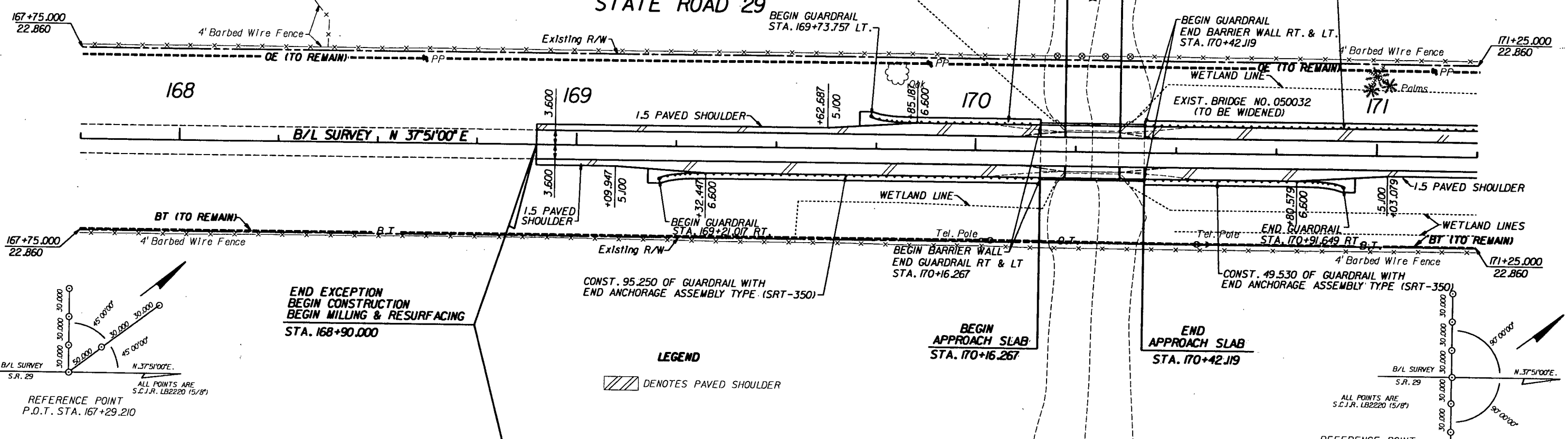
DESIGNED BY	NAME	DATE	DRAWN BY	NAME	DATE
DLD	DLD	5/96	DLD	DLD	5/96
CHECKED BY	HFL	5/96	CHECKED BY	TJB	5/96
SUPERVISED BY: W.J. WARDEN					

FLORIDA DEPARTMENT OF TRANSPORTATION
APPROVED BY: _____ DATE: _____

UTILITY ADJUSTMENT SHEET (2)
BRIDGE NO. 050035



STATE ROAD 29



END EXCEPTION
BEGIN CONSTRUCTION
BEGIN MILLING & RESURFACING
STA. 168+90.000

CONST. 95.250 OF GUARDRAIL WITH
END ANCHORAGE ASSEMBLY TYPE (SRT-350)

BEGIN
APPROACH SLAB
STA. 170+16.267

END
APPROACH SLAB
STA. 170+42.119

LEGEND
[Hatched Box] DENOTES PAVED SHOULDER

12	10	8	6	12	10	8	6
168				171			

DATE: 05-08-96 11:33

DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION



GENESIS GROUP, INC.

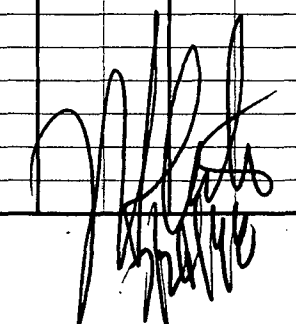
DESIGNED BY	NAME	DATE	CHECKED BY	NAME	DATE
DLD	DLD	5/96	TJB	TJB	5/96
HFL	HFL	5/96			

FLORIDA DEPARTMENT OF TRANSPORTATION
APPROVED BY: _____
SUPERVISED BY: W.J. WARDEN

UTILITY ADJUSTMENT SHEET (I)
BRIDGE NO. 050032

SUMMARY OF SIGNING AND PAVEMENT MARKING QUANTITIES

BID ITEM NO.	DESCRIPTION	# LOCATION STATION TO STATION	UNIT	SHEET NUMBERS														TOTAL THIS SHEET		GRAND TOTAL		REF. SHEET		
				6		7		8		9		10		11		12		13		ORIG.	FINAL		ORIG.	FINAL
				ORIG.	FINAL	ORIG.	FINAL	ORIG.	FINAL	ORIG.	FINAL	ORIG.	FINAL	ORIG.	FINAL	ORIG.	FINAL	ORIG.	FINAL					
BRIDGE NO. 050941																								
2710-25-61	TRAFFIC STRIPE SOLID (WHITE/BLACK/BLUE 150 MM) (EDGE LINE)	46+90.000-51+70.000	MI	670.0		290.0														960.0	960.0			
2710-28	TRAFFIC STRIPE SKIP (YELLOW)	46+90.000-51+70.000	MI	167.5		72.5														240.0	240.0			
2706-3	RETRO REFLECTIVE PAVEMENT MARKER AMBER/AMBER	46+90.000-51+70.000	EA	56		24														80	80			
BRIDGE NO. 050035																								
2710-25-61	TRAFFIC STRIPE SOLID (WHITE/BLACK/BLUE 150 MM) (EDGE LINE)	93+25.000-97+85.000	MI			600.0		320.0												920.0	920.0			
2710-28	TRAFFIC STRIPE SKIP (YELLOW)	93+25.000-97+85.000	MI			150.0		80.0												230.0	230.0			
2706-3	RETRO REFLECTIVE PAVEMENT MARKER AMBER/AMBER	93+25.000-97+85.000	EA			50		26												76	76			
BRIDGE NO. 050032																								
2710-25-61	TRAFFIC STRIPE SOLID (WHITE/BLACK/BLUE 150 MM) (EDGE LINE)	168+30.000-172+35.000	MI					590.0		220.0										810.0	810.0			
2710-28	TRAFFIC STRIPE SKIP (YELLOW)	168+30.000-172+35.000	MI					147.5		55.0										202.5	202.5			
2706-3	RETRO REFLECTIVE PAVEMENT MARKER AMBER/AMBER	168+30.000-172+35.000	EA					50		18										68	68			
BRIDGE NO. 050031																								
2710-25-61	TRAFFIC STRIPE SOLID (WHITE/BLACK/BLUE 150 MM) (EDGE LINE)	193+77.500-197+65.000	MI									495.0		280.0						775.0	775.0			
2710-28	TRAFFIC STRIPE SKIP (YELLOW)	193+77.500-197+65.000	MI									123.8		70.0						193.8	193.8			
2706-3	RETRO REFLECTIVE PAVEMENT MARKER AMBER/AMBER	193+77.500-197+65.000	EA									42		22						64	64			



* QUANTITIES ABOVE INCLUDE 60m TRANSITION AT EACH END OF BRIDGE PROJECT.
 THE PERMANENT REMOVAL OF SIGNS WITHIN THE LIMITS OF THIS PROJECT IS NOT REQUIRED IF THEY ARE NOT SHOWN IN THESE PLANS.
 ANY REQUIRED ADJUSTMENT OF THESE SIGNS BY THE CONTRACTOR SHALL BE COVERED UNDER SECTION 7-11.4 OF THE DEPARTMENT'S STANDARD SPECIFICATIONS.
 ALL PAVEMENT MARKINGS SHALL BE PAINT UNLESS OTHERWISE NOTED IN THE PLANS. THE QUANTITY FOR PAVEMENT MARKINGS INDICATED IN THE SIGNING AND PAVEMENT MARKING PLANS ARE INCLUDED IN THE QUANTITIES FOR PAVEMENT MARKINGS SHOWN IN THE SUMMARY OF ROADWAY PAY ITEMS.

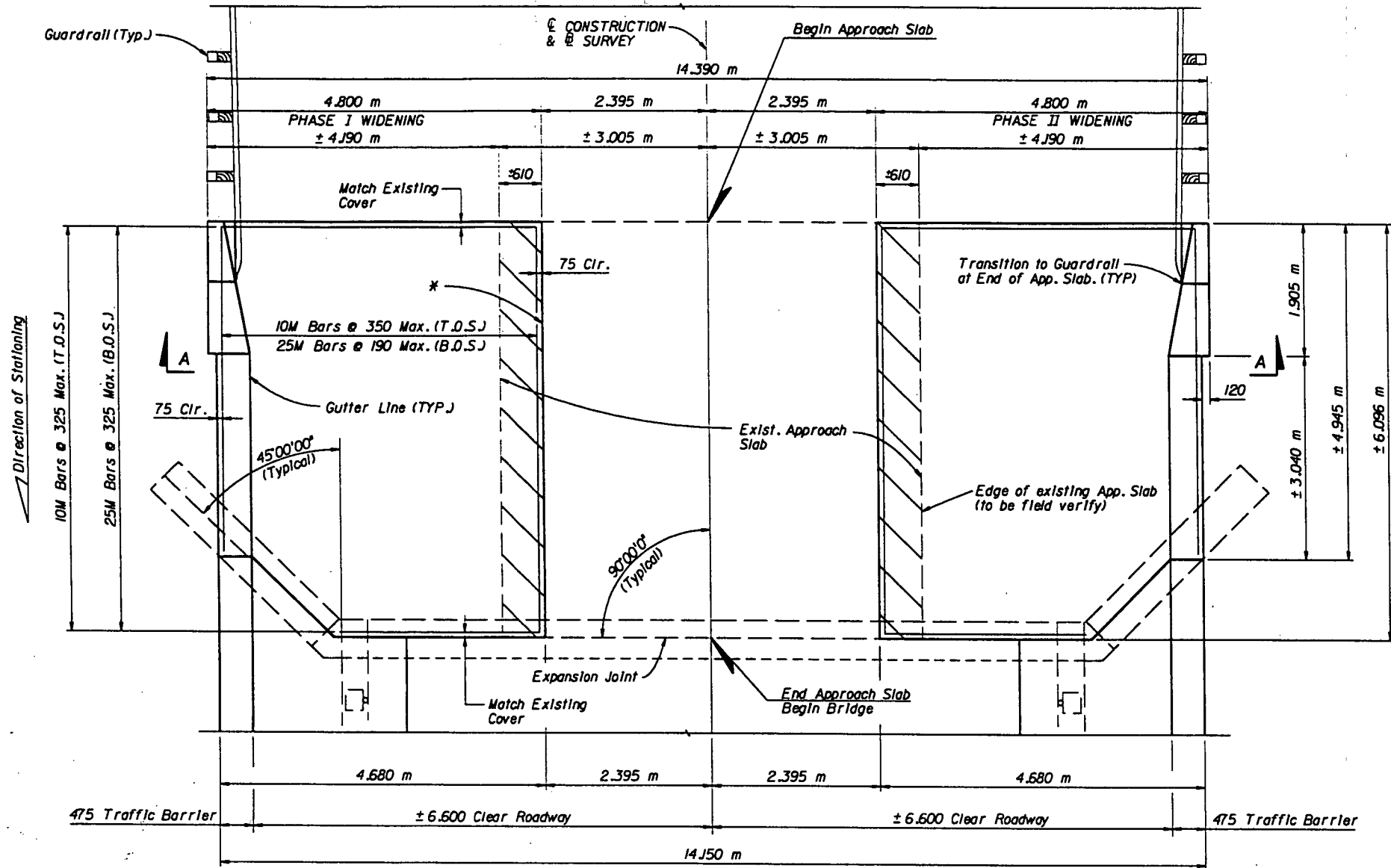
REVISIONS DATE BY DESCRIPTION DATE BY DESCRIPTION				GENESIS GROUP, INC.				FLORIDA DEPARTMENT OF TRANSPORTATION DESIGNED BY: HFL 9/96 CHECKED BY: DLD 9/96 DRAWN BY: HFL 9/96 CHECKED BY: DBF 9/96 SUPERVISED BY: W.J. WARDEN				APPROVED BY: _____ DATE: _____			
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SUMMARY OF QUANTITIES
SIGNING AND PAVEMENT MARKINGS

DATE: 9-10-96 05:3

GENERAL NOTES

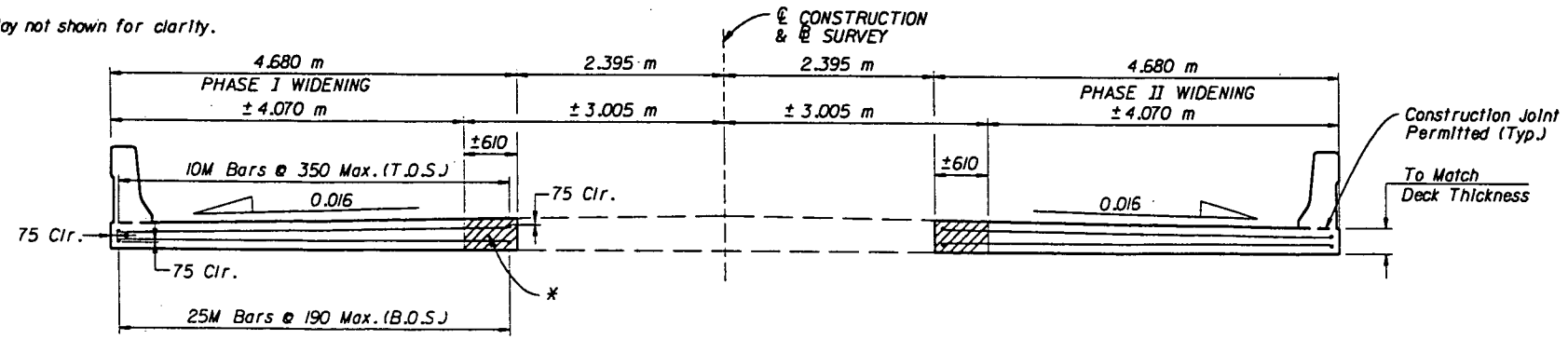
GENERAL SPECIFICATIONS: Florida Department of Transportation Standard Specifications for Road and Bridge Construction, current edition and Supplements thereto.
DESIGN SPECIFICATIONS: Standard specifications for Highway Bridges (AASHTO) current edition and approved revisions.
DESIGN LOADING: MS18
CONCRETE: Class II (Bridge Deck) All environments.
REINFORCING STEEL: ASTM A615M Grade 400
SURFACE TREATMENT: Same as Bridge.
TRAFFIC RAILING BARRIER: The cost of the traffic railing barrier supported by the approach slabs shall be included under Pay Item No. 2360-71, Concrete Approach Slab (Widening).
PAYMENT: Payment shall be made under Pay Item No. 2360-71, Concrete Approach Slab (Widening) The work shall comply with details on this sheet, Section 360 of the Standard Specifications, Bridge Plans and Roadway Plans. The bid price and payment shall be full compensation for all work and materials required to complete the approach slab widening.
The areas of approach slab removal are included in Bid Item No. 2110-3.
EXPANSION JOINT: Existing Joints are to be thoroughly cleaned and resealed. Refer to Page A-8 for Joint Construction. All work pertaining to Expansion Joints shall be paid under Pay Item 2350-72.



PLAN VIEW
(TYPICAL SOUTH APPROACH SLAB SHOWN - NORTH APPROACH SLAB MIRROR IMAGE)

* Cut back existing app. slab exposing ±610mm of existing reinforcement. If reinforcing is missing or damaged new reinforcing is to be doweled into existing slab.

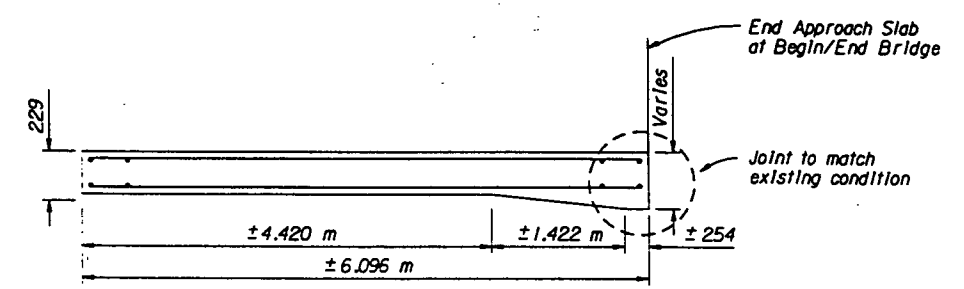
NOTE: Asphalt overlay not shown for clarity.



SECTION A-A

* ESTIMATED QUANTITIES			
ITEM	UNIT	PHASE I	PHASE II
Concrete	m ²	16.6	16.6
Reinforcing Steel	kg	2075	2075
Barrier-Concrete **	m ²	1.50	1.50
Barrier-Reinforcing Steel	kg	472	472

* The Quantities shown are based on an assumed configuration. The contractor is responsible for providing reinforcing and slab thickness that matches the existing Approach Slab as a minimum.



LONGITUDINAL SECTION THROUGH SLAB

11 SEP 97 10:39:50 Breil's Computer c:\projects\717-01\dwg\sr29app.dgn

REVISIONS Date By Description _____ _____ _____		Drawn by ML 8-97 Checked by SB 8-97 Designed by SB 8-97 Checked by RB 8-97 Approved by R.T. Carballo P.E.	ENGINEER OF RECORD: JMI ENGINEERS, INC. 900 Winderley Place, Ste. 148 Maitland, Florida 32751 Tel: 407-875-1550 Fax: 407-875-0560	ENGINEER OF RECORD: CORZO CASTELLA CARBALLO THOMPSON SALMAN P.A. ENGINEERS ARCHITECTS PLANNERS 901 PONCE DE LEON BLVD., SUITE 900 CORAL GABLES, FLORIDA 33134 MIAMI (305) 445-2900 FLORIDA (800) 448-8227 FL REGISTRATIONS: E88895022 AAC82142	FLORIDA DEPARTMENT OF TRANSPORTATION STRUCTURES DESIGN OFFICE ROAD NO. COUNTY PROJECT NO. SR-29 GLADES 05090-3511	SHEET TITLE: APPROACH SLABS PROJECT NAME: S.R. 29 BRIDGE NOS. 050941, 050035, 050032 & 050031 Drawing No. _____ Index No. _____
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FED. ROAD DIST. NO.	STATE	PROJECT NO.	FISCAL YEAR	SHEET NO.
3	FLA.			A-1

INDEX OF SHEETS FOR NORTH OKALOACOOCHIEE, LONE PINE CREEK, YORK BRANCH AND TURKEY BRANCH

- A-1 INDEX OF BRIDGE SHEETS & PROJECT LOCATION MAP
- A-2 GENERAL NOTES & APPLIED FINISH DETAIL
- A-3 305, 355, 455, 510, 610 AND 760 PRESTRESSED CONCRETE PILES (INDEX NO. 600)(1 OF 3)
- A-4 305, 355, 455, 510, 610 AND 760 PRESTRESSED CONCRETE PILES (INDEX NO. 600)(2 OF 3)
- A-5 305, 355, 455, 510, 610 AND 760 PRESTRESSED CONCRETE PILES (INDEX NO. 600)(3 OF 3)
- A-6 STANDARD BAR BENDING DETAILS (INDEX NO. 1300)
- A-7 MISCELLANEOUS DETAILS (1 OF 2)
- A-8 MISCELLANEOUS DETAILS (2 OF 2)
- A-9 PHASE CONSTRUCTION
- A-10 MODIFIED TRAFFIC RAILING BARRIER

INDEX OF SHEETS FOR NORTH OKALOACOOCHIEE (BRIDGE NO. 050941)

- B-1 PLAN AND ELEVATION
- B-2 BRIDGE HYDRAULIC RECOMMENDATIONS
- B-3 REPORT OF CORE BORINGS
- B-4 FOUNDATION LAYOUT & FINISH GRADE ELEVATIONS
- B-5 ABUTMENT MODIFICATIONS
- B-6 ABUTMENT MODIFICATION DETAILS (1 OF 2)
- B-7 ABUTMENT MODIFICATION DETAILS (2 OF 2)
- B-8 INTERMEDIATE BENT MODIFICATIONS
- B-9 REPAIR DETAILS
- B-10 2-SPAN SUPERSTRUCTURE
- B-11 REINFORCING BAR LIST

INDEX OF SHEETS FOR LONE PINE CREEK (BRIDGE NO. 050035)

- C-1 PLAN AND ELEVATION
- C-2 BRIDGE HYDRAULIC RECOMMENDATIONS
- C-3 REPORT OF CORE BORINGS
- C-4 FOUNDATION LAYOUT & FINISH GRADE ELEVATIONS
- C-5 ABUTMENT MODIFICATIONS
- C-6 ABUTMENT MODIFICATION DETAILS (1 OF 2)
- C-7 ABUTMENT MODIFICATION DETAILS (2 OF 2)
- C-8 INTERMEDIATE BENT MODIFICATIONS
- C-9 3-SPAN SUPERSTRUCTURE
- C-10 REINFORCING BAR LIST

INDEX OF SHEETS FOR YORK BRANCH (BRIDGE NO. 050032)

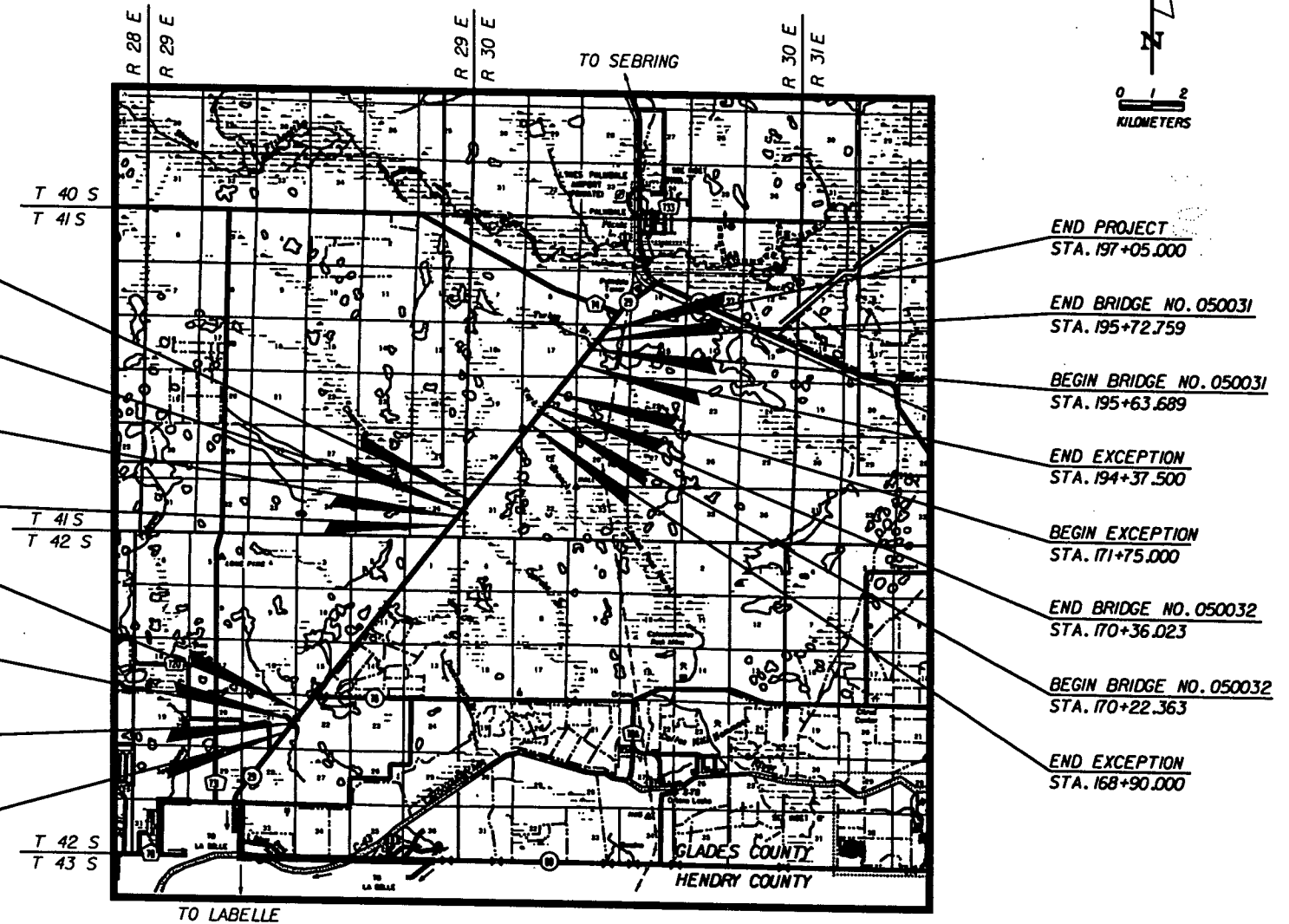
- D-1 PLAN AND ELEVATION
- D-2 BRIDGE HYDRAULIC RECOMMENDATIONS
- D-3 REPORT OF CORE BORINGS
- D-4 FOUNDATION LAYOUT & FINISH GRADE ELEVATIONS
- D-5 ABUTMENT MODIFICATIONS
- D-6 ABUTMENT MODIFICATION DETAILS (1 OF 2)
- D-7 ABUTMENT MODIFICATION DETAILS (2 OF 2)
- D-8 INTERMEDIATE BENT MODIFICATIONS
- D-9 3-SPAN SUPERSTRUCTURE
- D-10 REINFORCING BAR LIST

INDEX OF SHEETS FOR TURKEY BRANCH (BRIDGE NO. 050031)

- E-1 PLAN AND ELEVATION
- E-2 BRIDGE HYDRAULIC RECOMMENDATIONS
- E-3 REPORT OF CORE BORINGS
- E-4 FOUNDATION LAYOUT & FINISH GRADE ELEVATIONS
- E-5 ABUTMENT MODIFICATIONS
- E-6 ABUTMENT MODIFICATION DETAILS (1 OF 2)
- E-7 ABUTMENT MODIFICATION DETAILS (2 OF 2)
- E-8 INTERMEDIATE BENT MODIFICATIONS
- E-9 2-SPAN SUPERSTRUCTURE
- E-10 REINFORCING BAR LIST

INDEX OF EXISTING STRUCTURE DRAWINGS FOR NORTH OKALOACOOCHIEE, LONE PINE CREEK, YORK BRANCH AND TURKEY BRANCH

- EB-1 PLAN AND ELEVATION (BRIDGE NOS. 050941)
- EB-2 PLAN AND ELEVATION (BRIDGE NOS. 050035)
- EB-3 PLAN AND ELEVATION (BRIDGE NOS. 050032)
- EB-4 PLAN AND ELEVATION (BRIDGE NOS. 050031)
- EB-5 STANDARD CONCRETE PILE ABUTMENT - 15 FT. SPAN, 20 FT. RD (INDEX NO. 2187)
- EB-6 STANDARD CONCRETE PILE BENT - 15 FT. SPAN, 35 FT. RD (INDEX NO. 2183)
- EB-7 15 FT. SPAN SLAB SUPERSTRUCTURE (INDEX NO. 2184)



LOCATION MAP

THIS IS A METRIC UNIT PROJECT.

REVISIONS <table border="1"> <thead> <tr> <th>Date</th> <th>By</th> <th>Description</th> </tr> </thead> <tbody> <tr> <td> </td> <td> </td> <td> </td> </tr> </tbody> </table>		Date	By	Description				Drawn by ISW 8-97 Checked by HSH 8-97 Designed by HSH 8-97 Checked by JR 8-97 Approved by J. Jordan, P.E.	ENGINEER OF RECORD: JMI ENGINEERS, INC. 900 Winderley Place, Ste. 148 Maitland, Florida 32751 Tel: 407-875-8550 Fax: 407-875-0560	ENGINEER OF RECORD: CORZO CASTELLA CARBALLO THOMPSON SALMAN, P.A. ENGINEERS-ARCHITECTS-PLANNERS 901 PONCE DE LEON BLVD., SUITE 900 CORAL GABLES, FLORIDA 33134 MIAMI (305)-448-2900 FLORIDA (888)-448-8227 FL REGISTRATIONS: EB9905622 AAC062142	ROAD NO. SR-29 COUNTY GLADES PROJECT NO. 05090-3511	SHEET TITLE: INDEX OF BRIDGE SHEETS & PROJECT LOCATION MAP PROJECT NAME: S.R. 29 BRIDGE NOS. 050941, 050035, 050032 & 050031 Drawing No. A-1 Index No.
Date	By	Description										

W.P.J. NO. 1110874

GENERAL NOTES

PROJECT NO.	STATE	FISCAL YEAR	SHEET NO.
3	FLA.		A-2

GENERAL SPECIFICATIONS: Florida Department of Transportation Standard Specifications for Road and Bridge Construction (1996 Edition) and Supplements thereto, Technical Special Provision Section 402 Gunite.

DESIGN SPECIFICATIONS: American Association of State Highway and Transportation Officials (AASHTO) Standard Specifications for Highway Bridges (1992 Edition) and all applicable Interims thru 1995.

GUIDELINES: Florida Department of Transportation "Structures Design Guidelines" 1994, including all subsequent revisions.

DESIGN LOADING: MS-18 with Impact modified for military loading as required for all new construction.

FUTURE WEARING SURFACE: Design includes an allowance of 1.420 kN/m² of total asphalt on the bridges. For any future wearing surface, the existing asphalt must be milled first and then resurfaced. Under no circumstance can the depth of any future asphalt be greater than the depth of the existing asphalt.

CONCRETE: All concrete shall be in accordance with Section 346.

Class	Minimum 28-Day Compressive Strength (MPa)	Location of Concrete in Structure
II	f'c = 23	C.J.P. Barrier
IV	f'c = 38	C.J.P. Deck Slab/Approach Slab Barrier
IV	f'c = 38	C.J.P. Substructure
V (Special)	f'c = 41	Prestressed Piling

REINFORCING STEEL: All reinforcing steel shall be ASTM A615M-92, Grade 420. See Standard Drawings for additional requirements.

CONCRETE COVER: Concrete cover shown in the plans does not include reinforcement placement and fabrication tolerances unless shown as "minimum cover". See FDOT Standards Specifications for allowable tolerances. "Minimum Cover" may be abbreviated as "Ct." in the plans.

ENVIRONMENT CLASSIFICATION:

North Okaloacoochee (Bridge No. 050941):	Superstructure - Slightly Aggressive Substructure - Moderately Aggressive (Water - pH=5.9)
Lone Pine Creek (Bridge No. 050035):	Superstructure - Slightly Aggressive Substructure - Moderately Aggressive (Water - pH=5.0)
York Branch (Bridge No. 050032):	Superstructure - Slightly Aggressive Substructure - Extremely Aggressive (Water - pH=4.7)
Turkey Branch (Bridge No. 050031):	Superstructure - Slightly Aggressive Substructure - Moderately Aggressive (Water - pH=5.5)

DESIGN METHOD: All structural elements of the existing bridges were designed using Working Stress Design. All widening construction has been designed using Working Stress Design to match the original design method. The Deck Slab design was verified by the Load Factor Design Method.

UTILITIES: See Bridge Plan and Elevation Sheets for the location of existing utilities.

SURFACE FINISH: A Class 5 Applied Finish Coating shall be applied to the following exposed surfaces: the inside, outside and top faces of the traffic barrier; the bridge deck fascia; the inside, outside and top faces of the wingposts.

SCOUR: Scour has been considered in the design of the prestressed concrete piles with scour elevations based on the 100 year design flood. The scour elevations are shown on the Foundation Layout & Finished Grade Elevations Sheet.

DATUM: All elevations are referenced to the National Geodetic Vertical Datum (NGVD) of 1929 and have been converted to metric.

DIMENSIONS: All dimensions are in millimeters (mm) except as noted.

REMOVAL OF EXISTING STRUCTURE: See the Bridge Plan and Elevation, Abutment Modifications and Superstructure Sheets for limits where an existing portion of the structure is to be removed. Concrete surfaces shall be scored to a minimum depth of 25mm in order to provide a straight edge to construct new portions of each structure. Concrete shall be removed in a manner to prevent damage to the existing reinforcement.

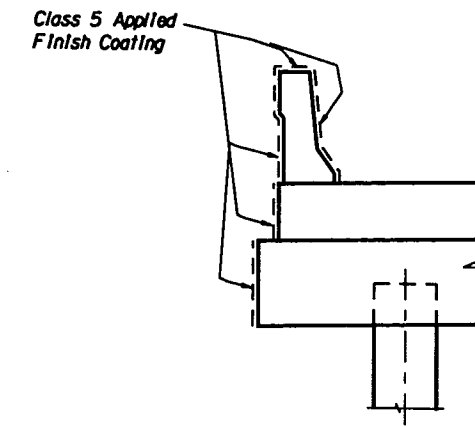
EXISTING TRANSVERSE REINFORCEMENT: The existing reinforcement to remain in place shall be cleaned, straightened and embedded into the new portions of slab and abutments. If bars are broken or determined to be unsatisfactory by the Engineer, they shall be replaced by dowel bars. All contacting surfaces between the existing and the new concrete shall be cleaned and thoroughly coated with a 3:1 Portland Cement slurry mixture immediately before pouring concrete.

VERIFICATION OF PHYSICAL DIMENSION LOCATIONS: The Contractor shall be responsible for verification of locations and dimensions in order to provide widening of structures as described in the plans. Existing plans are provided as reference only, and are not to be considered as "As-Built" drawings. Variations between actual "As-Built" conditions and these plans due to construction tolerances shall not be cause for additional compensation or change in scope of work.

CONSTRUCTION REQUIREMENTS: The Contractor shall not be allowed to place temporary fill pads within the creek for equipment access. Work shall be performed in a manner to prevent concrete fragments from being thrown into the creek.

BID ITEM NOTES

- A. For a Summary of Bridge Pay Items, see Roadway Plans.
- B. Payment for Incidental Items not specifically covered in the Individual Bid Items shall be included in the Contract Unit Price for Bid Items.
- C. For Maintenance of Traffic, see Roadway Plans.
- D. Bid Item No. 210-3 provides for the removal of portions of the existing structures. The following gives the estimated quantities (plan area) for each of the structures. In addition to these quantities, a ± 610 mm width on both sides of the existing approach slab will be required to be removed. The length of each approach slab is ± 6.096 m.
 - North Okaloacoochee (Bridge No. 050941) = 27 m².
 - Lone Pine Creek (Bridge No. 050035) = 34 m².
 - York Branch (Bridge No. 050032) = 34 m².
 - Turkey Branch (Bridge No. 050031) = 25 m².
- F. Bid Item No. 2360-71 provides for approach slab widening. The total estimated plan area of approach slab widening required for each of the structures is as follows:
 - North Okaloacoochee (Bridge No. 050941) = 111 m².
 - Lone Pine Creek (Bridge No. 050035) = 111 m².
 - York Branch (Bridge No. 050032) = 111 m².
 - Turkey Branch (Bridge No. 050031) = 111 m².
- G. Bid Item 2401-70 provides for restoring spalled areas. The work to be done under this pay item shall be done in accordance with Standard Specifications Section 125 and all associated costs shall be included under this pay item.
- H. Pay Item 2400-143 Cleaning and Coating Concrete Surfaces per Sq. Meter provides for the Class 5 Applied Finish Coating as shown on detail below. The estimated quantity for each bridge is as follows:
 - North Okaloacoochee (Bridge No. 050941) = 91.8 m².
 - Lone Pine Creek (Bridge No. 050035) = 112.7 m².
 - York Branch (Bridge No. 050032) = 112.3 m².
 - Turkey Branch (Bridge No. 050031) = 91.7 m².



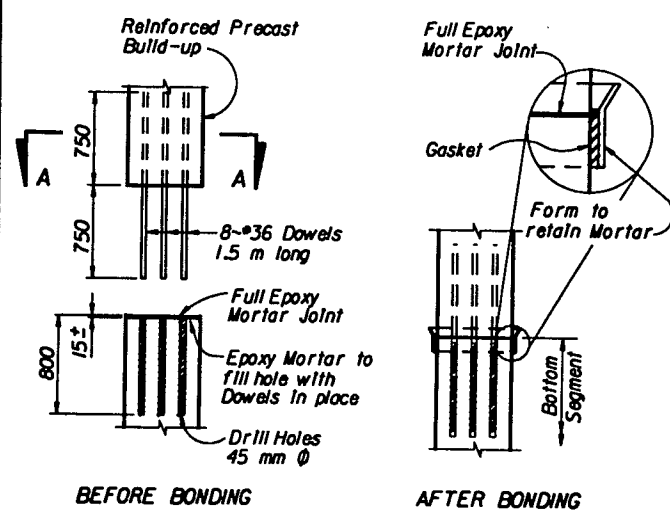
APPLIED FINISH DETAIL

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REVISIONS				ENGINEER OF RECORD:		ENGINEER OF RECORD:		SEALS		FLORIDA DEPARTMENT OF TRANSPORTATION		SHEET TITLE	
Date	By	Description	Date	By	Description	Name	Date	Name	Date	ROAD NO.	COUNTY	PROJECT NO.	GENERAL NOTES & APPLIED FINISH DETAIL
						JSW	8-97	JMI ENGINEERS, INC.		SR-29	GLADES	05090-3511	050941, 050035, 050032 & 050031
						HSH	8-97	300 Winderley Place, Ste. 148					
						HSH	8-97	Maitland, Florida 32751					
						JR	8-97	Tel: 407-875-1550 Fax: 407-875-0568					
						J. Registe, P.E.							

Drivable Splice	Min. Splice Length	*36 Dowel Length
YES	3.050 m	2.3 m
NO*	1.525 m	1.5 m

*For Splices less than 1.525 m (not Drivable), use the Reinforced Precast Splice.

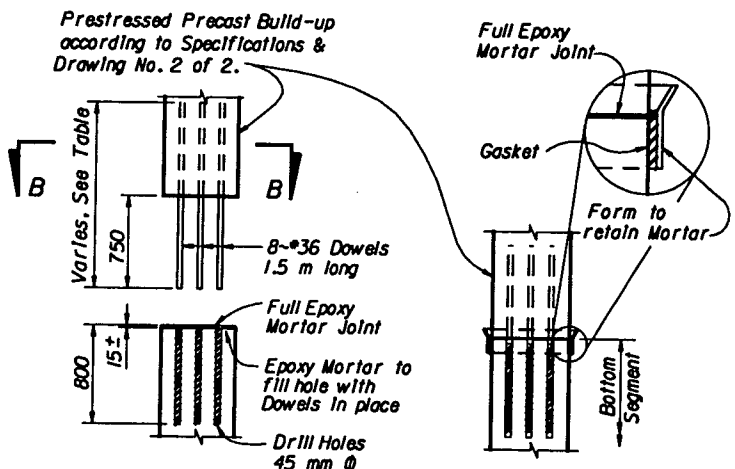


NOTE: Dowels shown for 610 Pile. See Sect. A-A for spacing and number of Dowels for each Pile.

REINFORCED PRECAST SPLICES

(Extensions 610 mm Min. but less than 1.525 m) (Not Drivable)

NOTE: The reinforced precast Build-up shall conform with the Specifications and Section A-A. Spiral ties pitch shall be 150 mm Max.



NOTE: Dowels shown for 610 Pile. See Sect. B-B for spacing and number of Dowels for each Pile.

PRESTRESSED PRECAST SPLICES

(Extensions 1.525 m or longer)

DETAILS FOR REINFORCED PRECAST & PRESTRESSED PRECAST PILE SPLICES

PILE NOTES

SPIRAL TIES: Each wrap of spirals shall be tied to at least two corner strands or bars. One turn required for spiral splices. Spirals shall be manufactured from cold-drawn steelwire meeting the requirements of ASTM A82.

PILE CUT OFF: Piles required to be cut off shall be sawcut at the pile cut off elevation shown on the plans with an abrasive saw. Unless otherwise noted on the plans, the cut shall be made to the depth into the pile necessary to cleanly cut through the prestressing strands.

CONCRETE CLASS: Concrete for all piles shall be Class X (Special) or Class X (Special) (Microsilica). Class X (Special) and Class X (Special) (Microsilica) Concrete shall conform to all requirements for Class X Concrete except for the 28-day strength as noted below.

CONCRETE STRENGTH: The cylinder strength shall be 41 MPa minimum at 28 days and 28 MPa minimum at transfer of the Prestressing Force.

SPLICED PILES: Piles may be spliced in accordance with Subart. A455-5.7 of the Specifications. Precast buildups shall be prestressed or reinforced according to pile details for the "head" section of the pile shown on this Standard. Drivable spliced piles may be driven after splice is two days old.

PICK-UP POINTS: Piles shall be marked at the pick-up points to indicate proper points for attaching handling lines.

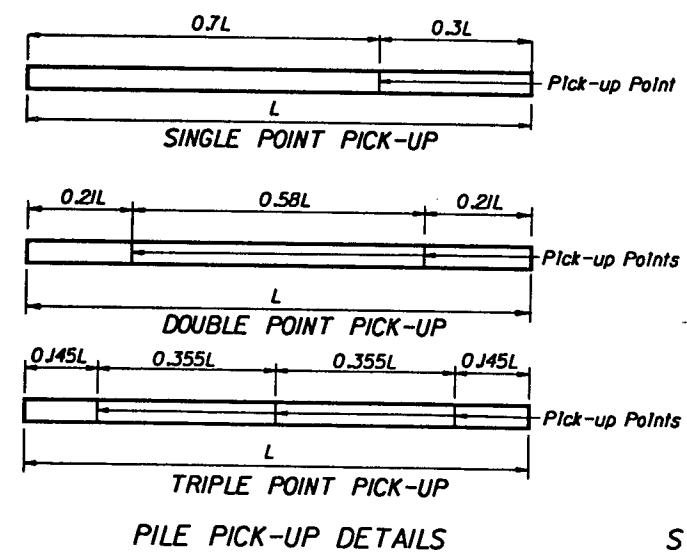
STORAGE AND TRANSPORTATION: Piles shall be supported on adequate dunnage both in the precasting yard and at the jobsite and shall be supported and tied down during transit in accordance with the following schedule:

Type Pickup Required by Pile Length	Type Storage and Transportation Support Detail
Single or Double	2, 3 or 4 Point Support
Triple	3 or 4 Point Support

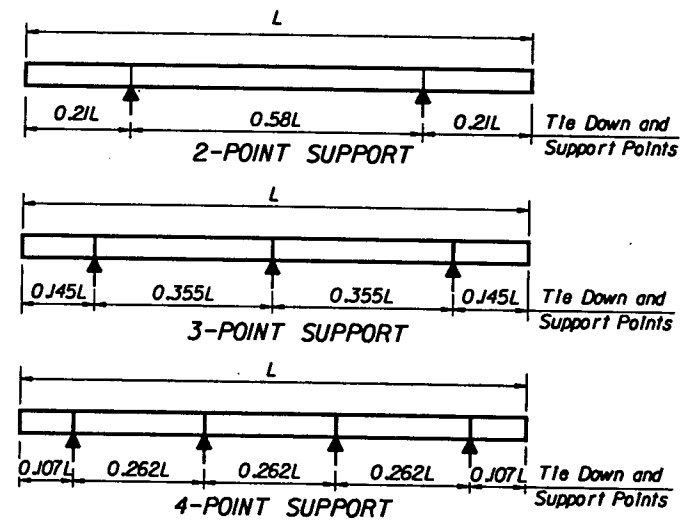
REINFORCING STEEL: All Reinforcing Steel except spiral ties shall be ASTM A615M-96, Grade 420.

STRAND NOMENCLATURE:

S.R. = Stress Relieved Strand
 L.R.S. = Low-Relaxation Strand
 No. 13 (Spec.): $A_s = 107.74 \text{ mm}^2$
 No. 14 (Spec.): $A_s = 126.45 \text{ mm}^2$

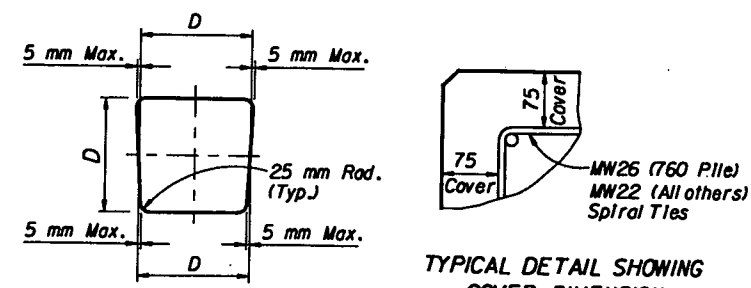


PILE PICK-UP DETAILS



STORAGE AND TRANSPORTATION SUPPORT DETAILS

PILE SIZE	MAX. LENGTH "L" (METERS) FOR PICK-UP		
	SINGLE POINT	DOUBLE POINT	TRIPLE POINT
305	15	21	$L > 21$
355	17	23	$L > 23$
455	18	27	$L > 27$
510	20	29	$L > 29$
610	21	30	$L > 30$
760	27	38	$L > 38$



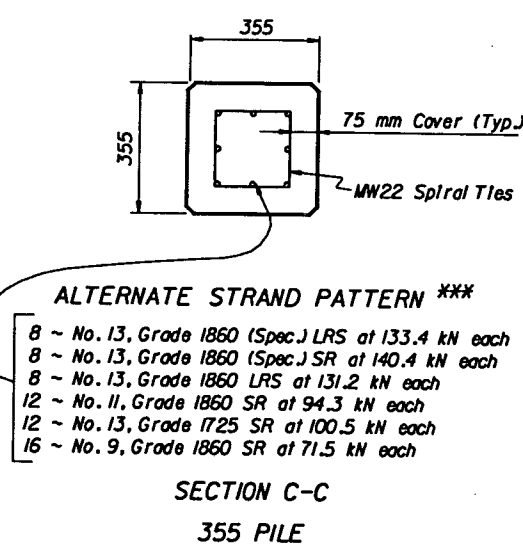
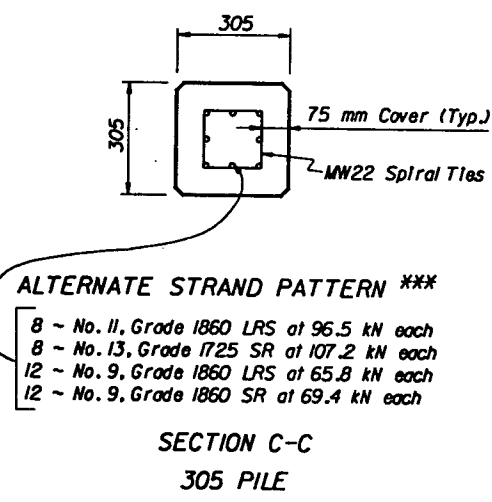
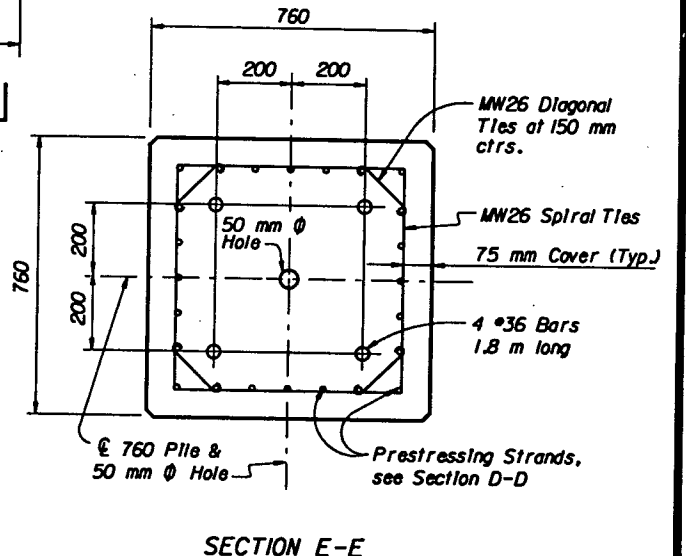
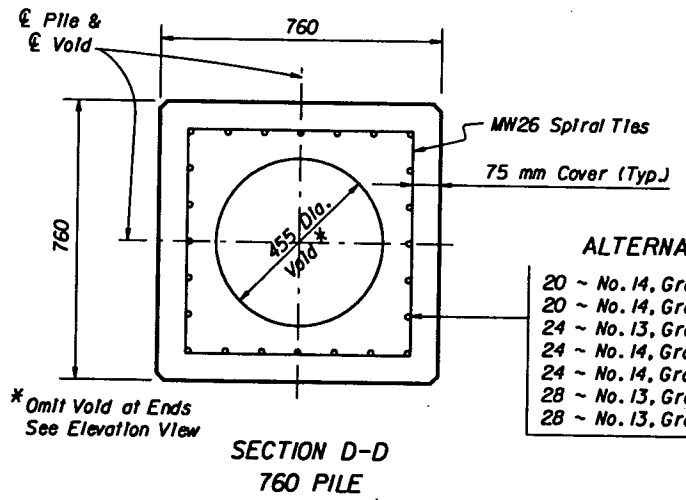
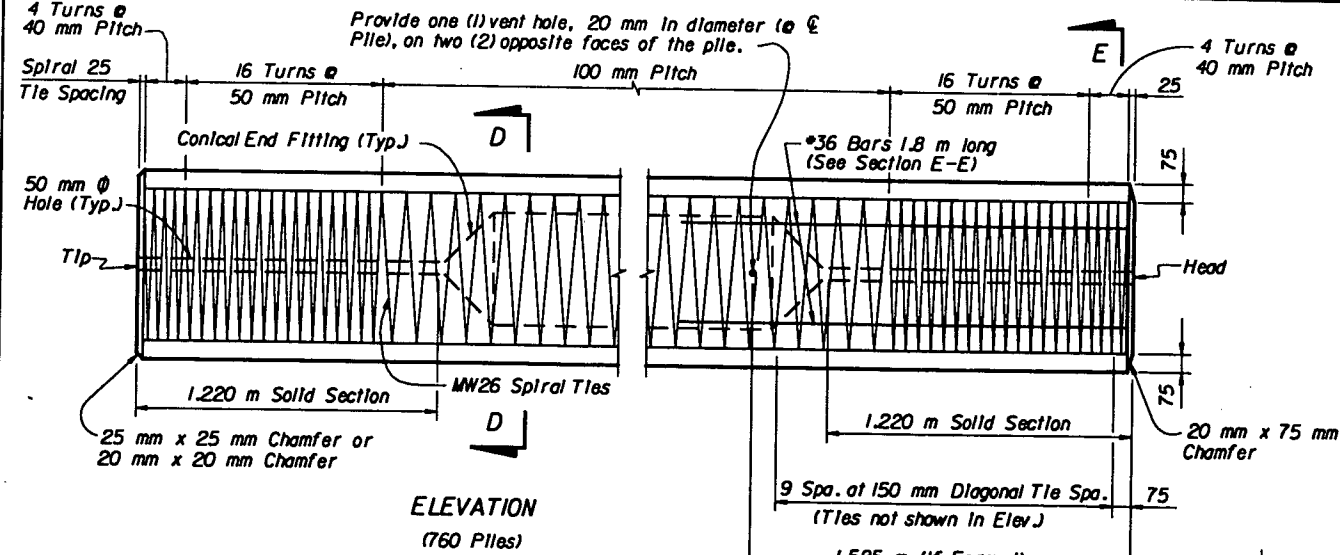
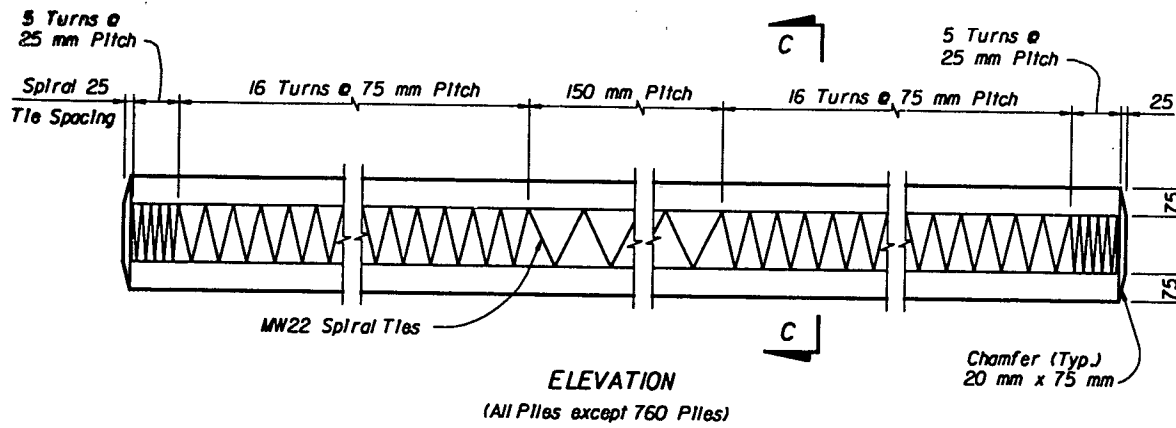
TYPICAL PILE SHAPE FOR MOLD FORMS

TYPICAL DETAIL SHOWING COVER DIMENSION

NOTE: All dimensions are in millimeters (mm), except as noted.

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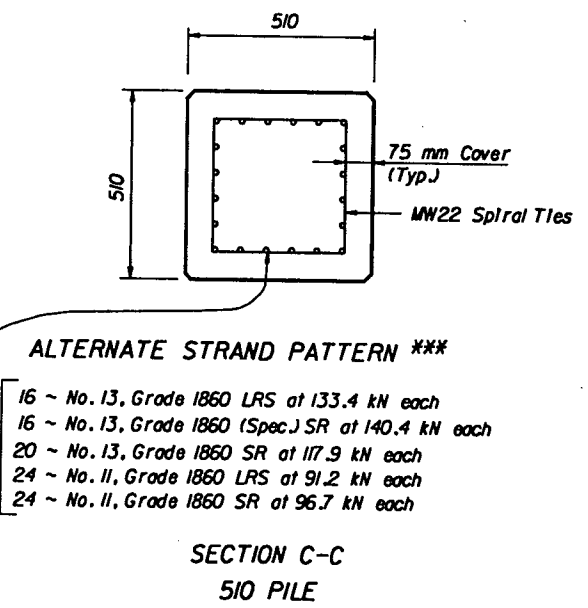
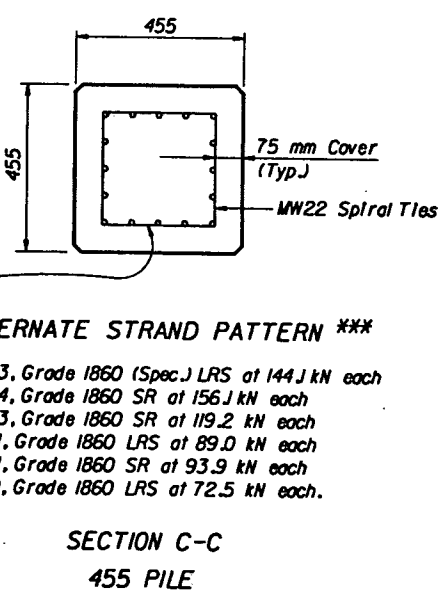
REVISIONS Date By Description 97R		Drawn by SHM 3-96 Checked by TJB 7-96 Designed by Checked by Approved by REN	ENGINEER OF RECORD: STRUCTURES DESIGN OFFICE CENTRAL OFFICE 605 Suwannee Street, MS 33 Tallahassee, Florida 32399-0450	LOGO:	SEAL:	FLORIDA DEPARTMENT OF TRANSPORTATION STRUCTURES DESIGN OFFICE	SHEET TITLE: 305, 355, 455, 510, 610 AND 760 PRESTRESSED CONCRETE PILES	Drawing No. 1 of 3
ROAD NO. SR-29	COUNTY GLADES	PROJECT NO. 05090-3511	PROJECT NAME: S.R. 29 BRIDGE NOS. 050941, 050035, 050032 & 050031	Index No. 600				



- ALTERNATE STRAND PATTERN *****
- 8 ~ No. 11, Grade 1860 LRS at 96.5 kN each
 - 8 ~ No. 13, Grade 1725 SR at 107.2 kN each
 - 12 ~ No. 9, Grade 1860 LRS at 65.8 kN each
 - 12 ~ No. 9, Grade 1860 SR at 69.4 kN each

- ALTERNATE STRAND PATTERN *****
- 8 ~ No. 13, Grade 1860 (Spec.) LRS at 133.4 kN each
 - 8 ~ No. 13, Grade 1860 (Spec.) SR at 140.4 kN each
 - 8 ~ No. 13, Grade 1860 LRS at 131.2 kN each
 - 12 ~ No. 11, Grade 1860 SR at 94.3 kN each
 - 12 ~ No. 13, Grade 1725 SR at 100.5 kN each
 - 16 ~ No. 9, Grade 1860 SR at 71.5 kN each

- ALTERNATE STRAND PATTERN *****
- 20 ~ No. 14, Grade 1860 (Spec.) LRS at 171.7 kN each
 - 20 ~ No. 14, Grade 1860 LRS at 172.9 kN each
 - 24 ~ No. 13, Grade 1860 (Spec.) LRS at 143.7 kN each
 - 24 ~ No. 14, Grade 1860 SR at 155.7 kN each
 - 24 ~ No. 14, Grade 1860 (Spec.) SR at 156.6 kN each
 - 28 ~ No. 13, Grade 1860 LRS at 125.0 kN each
 - 28 ~ No. 13, Grade 1860 (Spec.) SR at 134.3 kN each



- ALTERNATE STRAND PATTERN *****
- 12 ~ No. 13, Grade 1860 (Spec.) LRS at 144.1 kN each
 - 12 ~ No. 14, Grade 1860 SR at 156.1 kN each
 - 16 ~ No. 13, Grade 1860 SR at 119.2 kN each
 - 20 ~ No. 11, Grade 1860 LRS at 89.0 kN each
 - 20 ~ No. 11, Grade 1860 SR at 93.9 kN each
 - 24 ~ No. 9, Grade 1860 LRS at 72.5 kN each.

- ALTERNATE STRAND PATTERN *****
- 16 ~ No. 13, Grade 1860 LRS at 133.4 kN each
 - 16 ~ No. 13, Grade 1860 (Spec.) SR at 140.4 kN each
 - 20 ~ No. 13, Grade 1860 SR at 117.9 kN each
 - 24 ~ No. 11, Grade 1860 LRS at 91.2 kN each
 - 24 ~ No. 11, Grade 1860 SR at 96.7 kN each

- ALTERNATE STRAND PATTERN *****
- 20 ~ No. 13, Grade 1860 (Spec.) LRS at 150.4 kN each
 - 20 ~ No. 14, Grade 1860 SR at 161.4 kN each
 - 20 ~ No. 14, Grade 1860 (Spec.) SR at 164.8 kN each
 - 24 ~ No. 13, Grade 1860 LRS at 129.0 kN each
 - 24 ~ No. 13, Grade 1860 (Spec.) SR at 140.4 kN each

NOTES

** The 455 mm Ø Void in the pile shall be positively vented to water or air after the final pile installation. If the 20 mm Ø vents are included in the pile cut-off section, two (2) new holes, 20 mm in diameter, shall be drilled on two (2) opposite faces of the pile below the bottom of substructure elevation. If the pile void can not be vented directly to water or air, then venting shall be provided by the use of a 25 mm Ø P.V.C. conduit through the 50 mm Ø hole(s) or the 455 mm Ø void to the outside. This might involve venting through a substructure cap or column. Voids between segments of spliced piles shall be connected by 50 mm Ø hole(s). See Detail "A".

CONTRACTOR OPTION: The 760 mm pile may be cast SOLID by omitting the 455 mm void, the 50 mm holes, and the 20 mm vent holes. In this event, the Contractor shall submit for approval calculations and a proposed strand configuration that provide net prestressing after losses equal to 6.89 MPa.

*** Any of the given Alternate Strand Patterns may be utilized. The strands shall be located as follows: place one strand at each corner and place the remaining strands equally spaced between the corner strands. The Total strand pattern shall be concentric with the nominal concrete section of the pile.

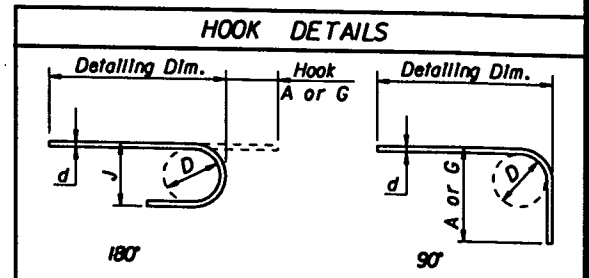
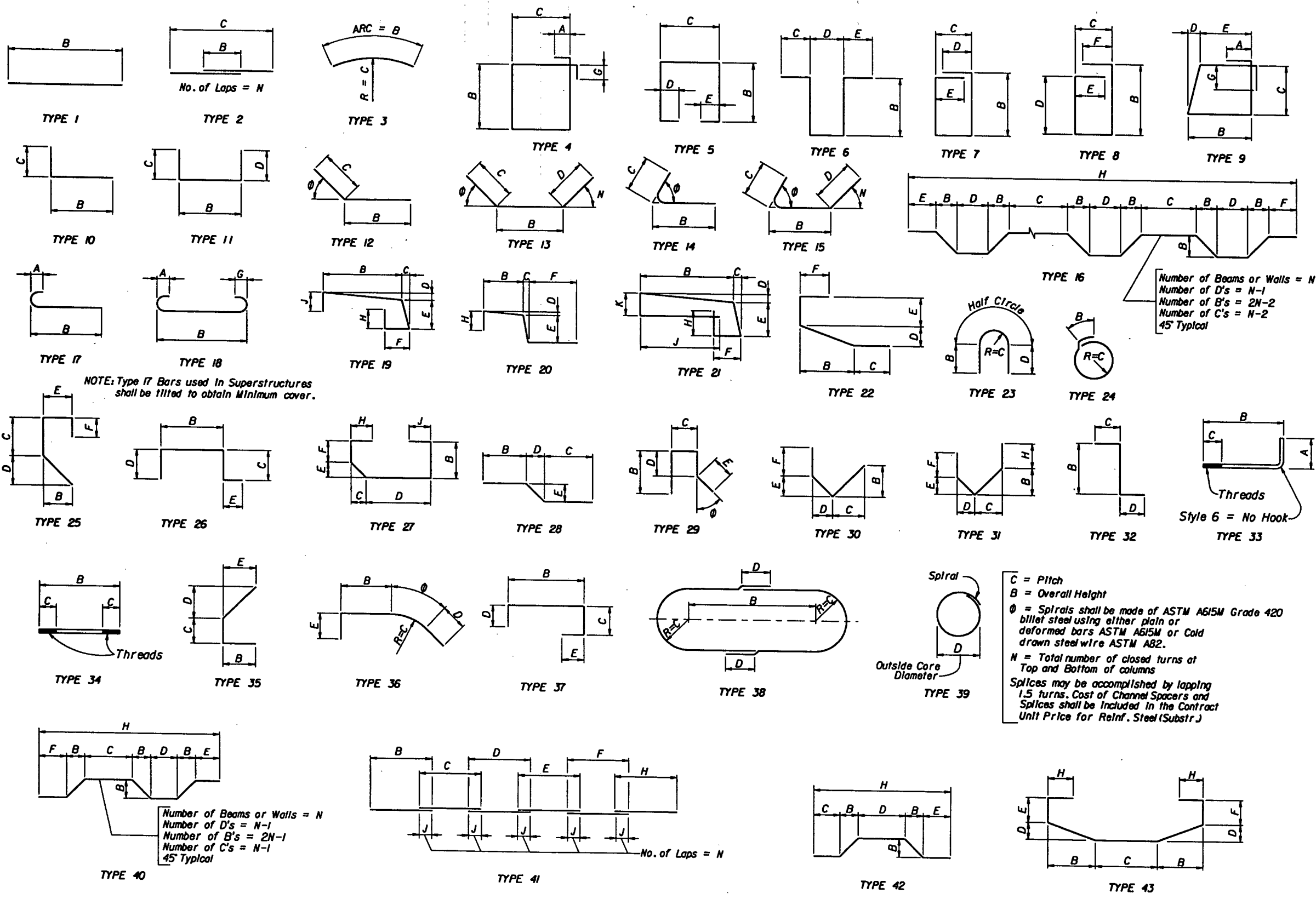
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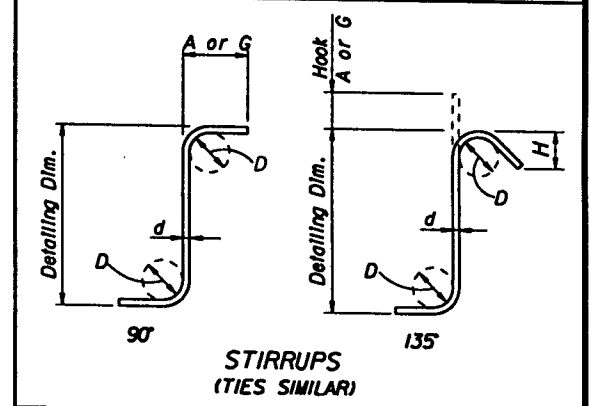
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Checked by	TJB	7-96	
Designed by			
Checked by			
Approved by	REN		

ROAD NO.	COUNTY	PROJECT NO.	FLORIDA DEPARTMENT OF TRANSPORTATION STRUCTURES DESIGN OFFICE	SHEET TITLE: 305, 355, 455, 510, 610 AND 760 PRESTRESSED CONCRETE PILES	Drawing No. 3 of 3
SR-29	GLADES	05090-3511			



BAR SIZE	D	180° HOOKS		90° HOOKS
		A OR G	J	A OR G
#10	60	125	80	150
#13	80	150	105	200
#16	95	175	130	250
#19	115	200	155	300
#22	135	250	180	375
#25	155	275	205	425
#29	240	375	300	475
#32	275	425	335	550
#36	305	475	375	600
#43	465	675	550	775
#57	610	925	725	1050
STYLE		1		3



RECOMMENDED STIRRUP & TIE HOOK DIMENSIONS

BAR SIZE	D	90° HOOKS		135° HOOKS	
		A or G	A or G	A or G	H*
#10	40	105	105	65	
#13	50	115	115	80	
#16	65	155	140	95	
#19	115	305	205	115	
#22	135	355	230	135	
#25	155	410	270	155	
STYLE		4		5	

STYLE 6 = NO HOOK

* Dimension is approximate.
 Hook Styles Detailed on this sheet are for illustration only.
 Actual Hook Style for any particular bar will be shown under A or G heading on REINFORCING BAR LIST sheet.
 All dimensions are in millimeters (mm), except as noted.
 All dimensions are out-to-out.

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REVISIONS

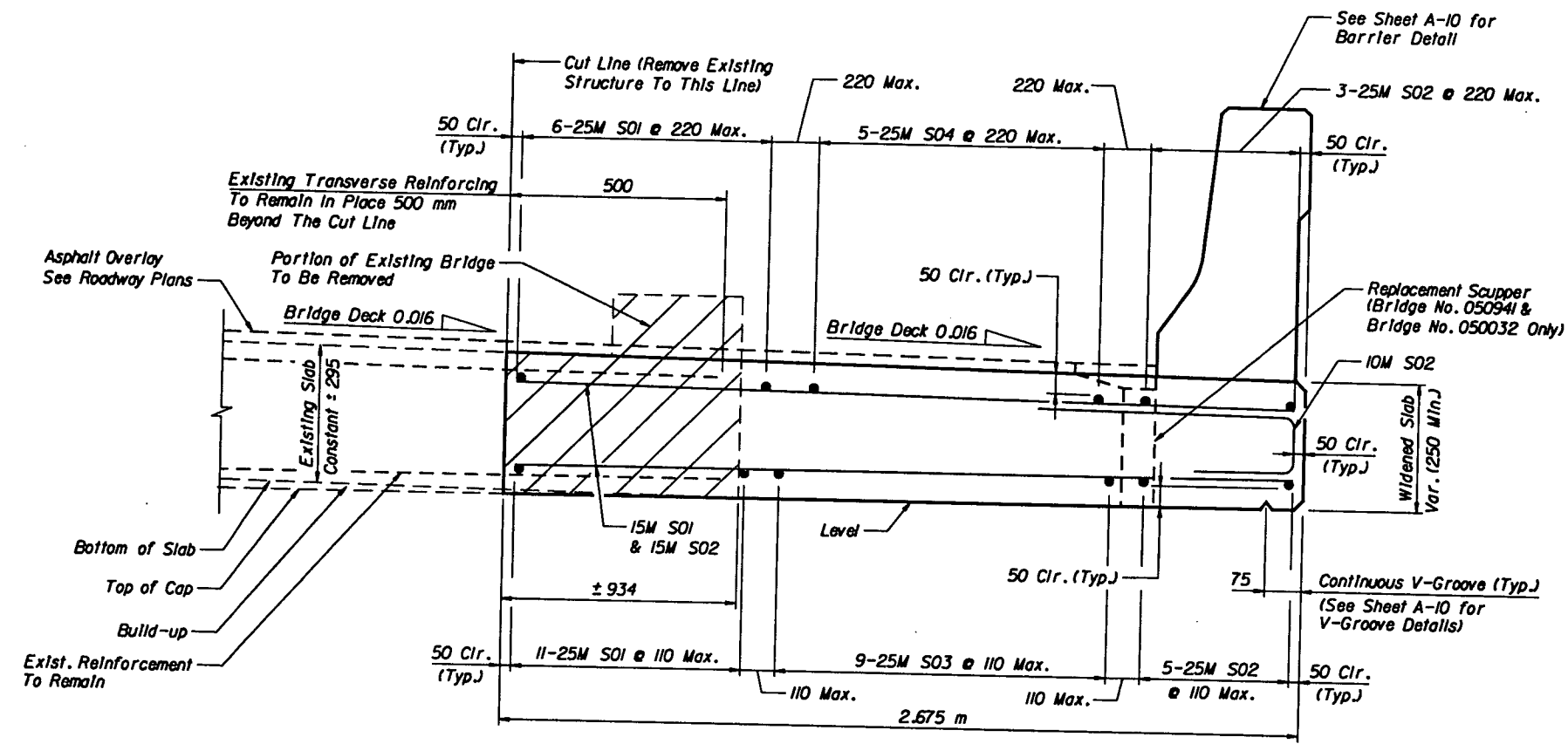
Date	By	Description	Date	By	Description
			97R		

Drawn by DJR 3-96	ENGINEER OF RECORD: STRUCTURES DESIGN OFFICE CENTRAL OFFICE 605 Suwannee Street, MS 33 Tallahassee, Florida 32399-0450
Checked by TJB 6-96	
Designed by	
Checked by	
Approved by TJB	

ROAD NO. SR-29	COUNTY GLADES	PROJECT NO. 05090-3511
--------------------------	-------------------------	----------------------------------

FLORIDA DEPARTMENT OF TRANSPORTATION STRUCTURES DESIGN OFFICE	SHEET TITLE: STANDARD BAR BENDING DETAILS Drawing No. 1 of 1
PROJECT NAME: S.R. 29 BRIDGE NOS. 050941, 050035, 050032 & 050031	Index No. 1300

FED. ROAD DIST. NO.	STATE	PROJECT NO.	FISCAL YEAR	SHEET NO.
3	FLA.			A-7



DETAIL A

NOTES:

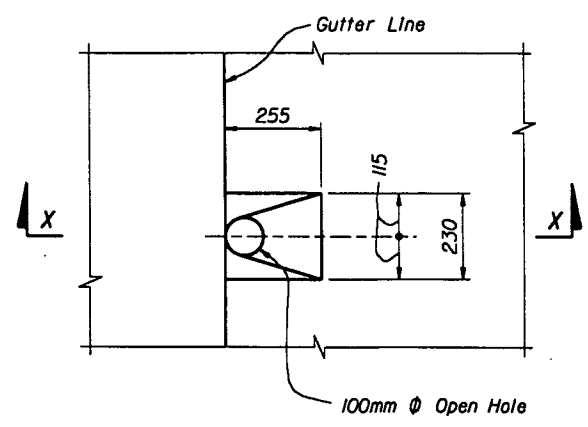
1. The existing deck slab shall be scored along the cut line for the full length of each span by sawing to the top of the reinforcing bars. The Contractor shall avoid damaging the reinforcing steel during the sawing operation and slab removal.
2. The existing transverse reinforcing is to remain in place. The bars shall be cleaned, straightened and embedded in the widened slab. If bars are broken or otherwise determined to be unsatisfactory by the Engineer, they shall be replaced by dowel bars.
3. All contacting surfaces between the old and new concrete shall be cleaned immediately before casting concrete.
4. Dowels shall be set in approved epoxy or capsule adhesive (Class IX). Where reinforcing is encountered, shift hole to clear. The cost of approved epoxy or capsule adhesive and installing dowels shall be included in the Contract Unit Price of Item No. 2400-4-4, Class IX Concrete (Superstructure).
5. Dowel bar holes shall be cleaned thoroughly and free of moisture prior to anchor installation. See adhesive manufacturer's instructions for specific installation procedures.
6. The cost of dowel bars required to replace broken or unsatisfactory existing transverse reinforcing shall be included in the Contract Unit Price of Item No. 2415-1-4, Reinforcing Steel (Superstructure).

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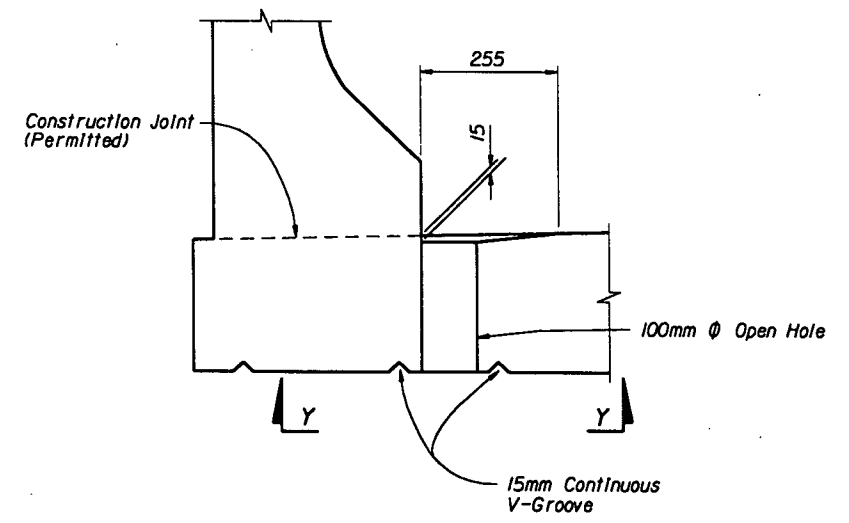
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Date	By	Description	Date	By	Description	Name	Notes	ROAD NO.	COUNTY	PROJECT NO.	Drawing No.
						JMI ENGINEERS, INC.		SR-29	GLADES	05090-3511	1 of 2
						CORZO CASTELLA CARBALLO THOMPSON SALMAN P.A.		STRUCTURES DESIGN OFFICE			
						900 Winderley Place, Ste. 148		PROJECT NAME:			
						Maitland, Florida 32751		S.R. 29 BRIDGE NOS.			
						Tel: 407-875-1550 Fax: 407-875-0560		050941, 050035, 050032 & 050031			
								INDEX No.			

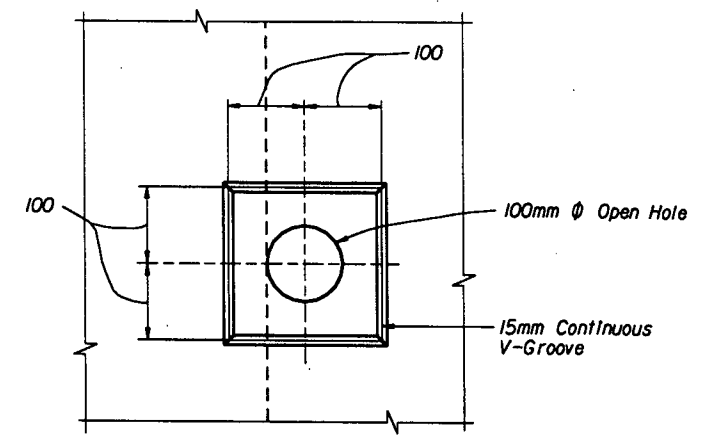
FED. ROAD DIST. NO.	STATE	PROJECT NO.	FISCAL YEAR	SHEET NO.
3	FLA.			A-8



PLAN

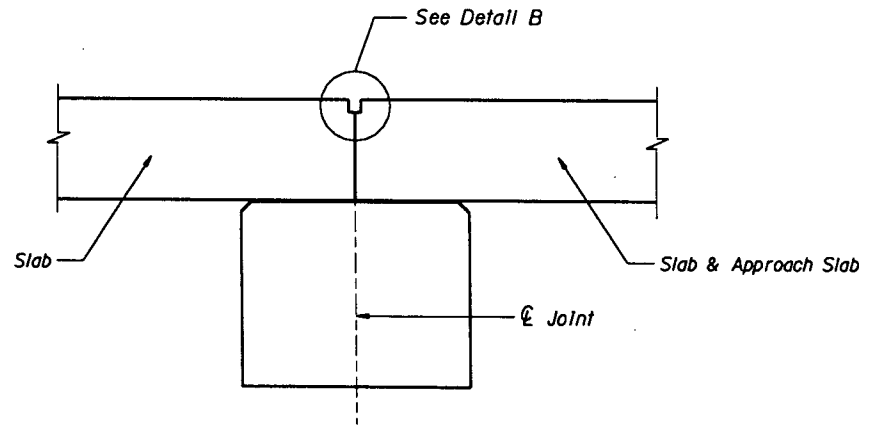


**SECTION X-X
REPLACEMENT SCUPPER
DRAIN DETAILS**



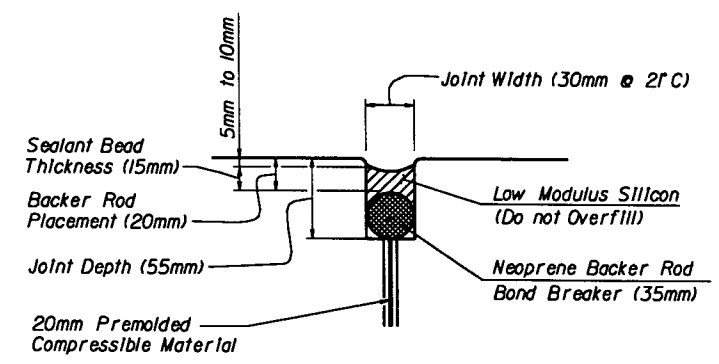
VIEW Y-Y

* The cost of Scuppers shall be Included In the Cost of Pay Item 2400-4-4 Concrete Class IV (Superstructure).



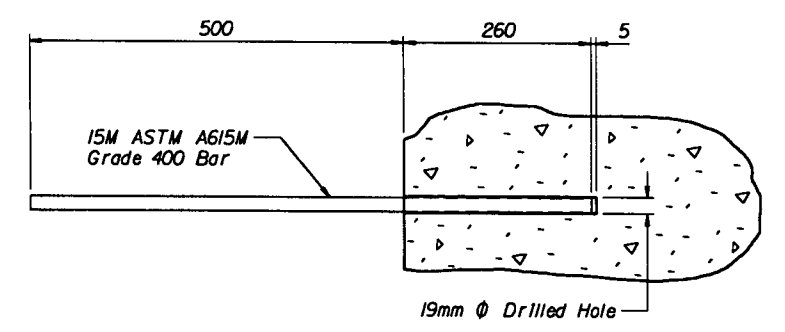
SECTION AT JOINT (TYP)
Reinforcing in Cap omitted for clarity.

NOTE: Clean existing joints thoroughly and place throughout entire joints new Neoprene Backer Rod and Low Modulus Silicon. Cleaning and resealing shall be paid for under Pay Item 2350-72.



DETAIL "B"

* The cost of Joint construction as shown in Detail "B" shall be Included In the Cost of Pay Item Number 2350-72.



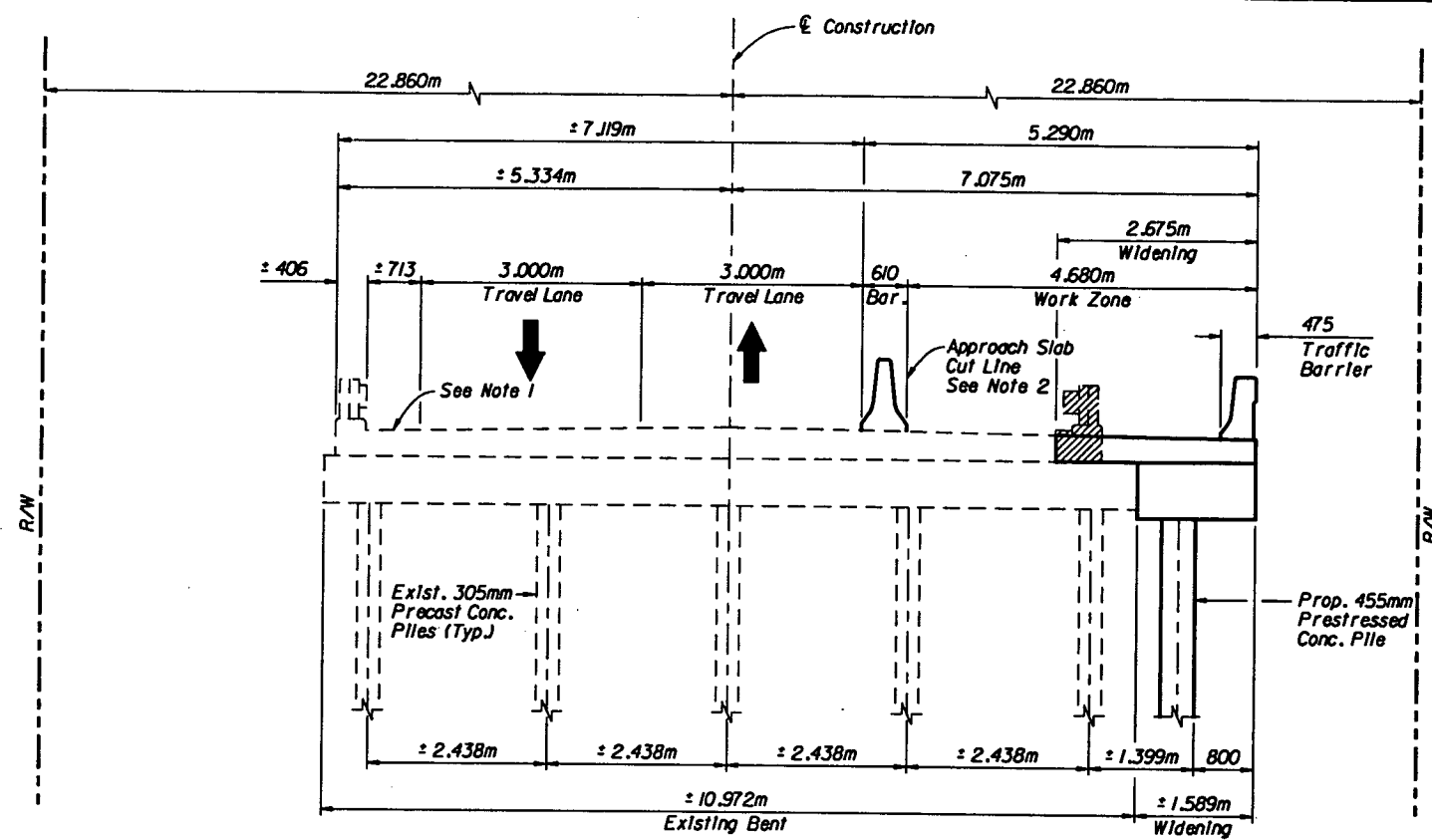
DOWEL DETAIL
(For broken or unsatisfactory existing transverse reinforcing)

11 SEP 97 17:34:28 Brett's Computer C:\p\leds\77-0\sub\br\ngm\scd2.dgn

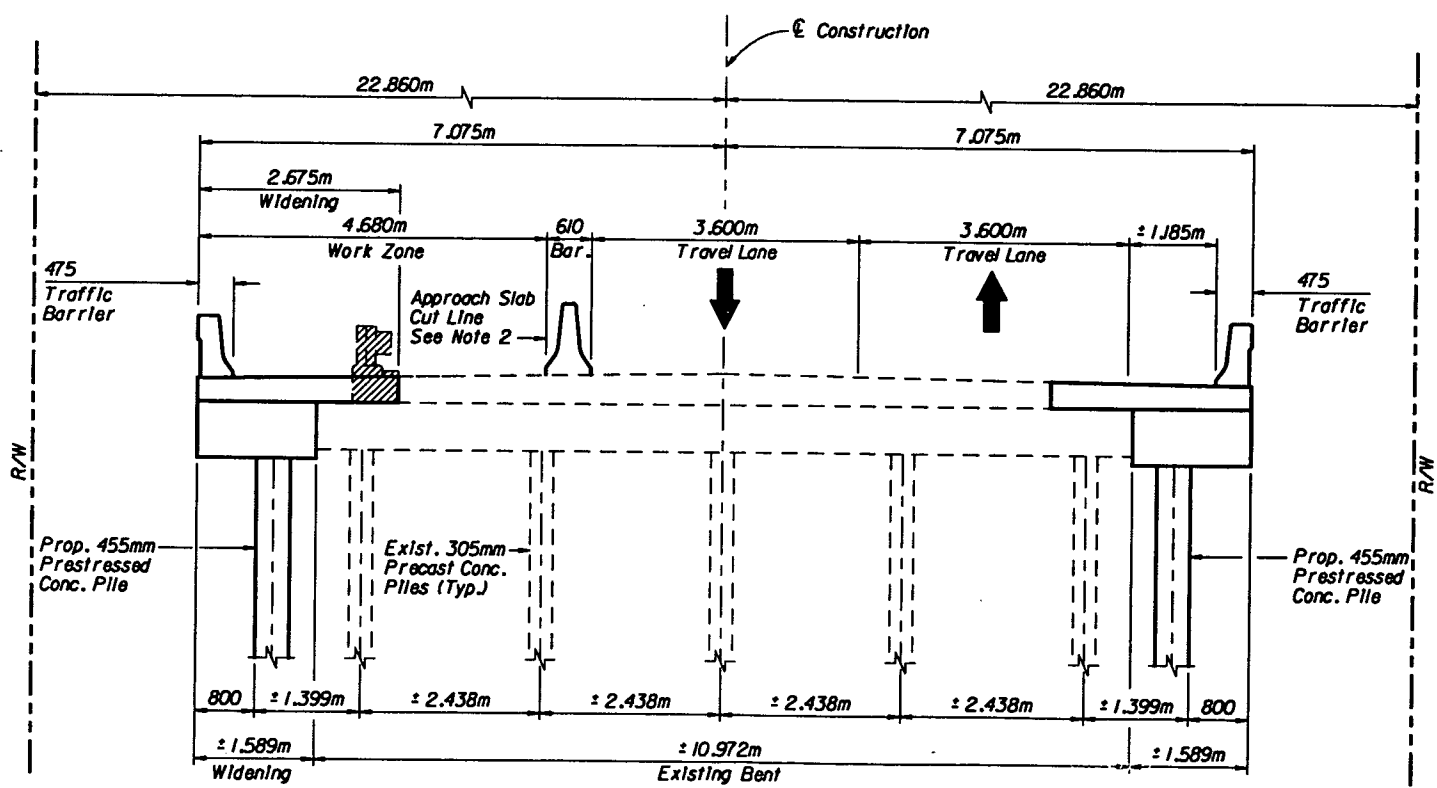
REVISIONS				Names		Dates		ENGINEER OF RECORD:		SEAL		ROAD NO.		COUNTY		PROJECT NO.		SHEET TITLE		Drawing No.	
Date	By	Description	Date	By	Description	Date	By	ENGINEER OF RECORD:		SEAL		ROAD NO.		COUNTY		PROJECT NO.		SHEET TITLE		Drawing No.	
								JMI ENGINEERS, INC.		CORZO CASTELLA CARBALLO THOMPSON SALMAN, P.A.		SR-29		GLADES		05090-3511		MISCELLANEOUS DETAILS		2 of 2	
								900 Winderley Place, Ste. 148 Maitland, Florida 32751 Tel: 407-875-1550 Fax: 407-875-0560		CORZO CASTELLA CARBALLO THOMPSON SALMAN 901 PONCE DE LEON BLVD., SUITE 900 CORAL GABLES, FLORIDA 33134 MIAMI (305)-445-2988 FLORIDA (888)-448-8227 FL REGISTRATIONS: E80085022 AAC002142								PROJECT NAME: S.R. 29 BRIDGE NOS. 050941, 050035, 050032 & 050031		index No.	

NOTES:

1. Temporary Pavement will be added along the existing roadway edge of pavement at the bridge approaches to accommodate Phase I Maintenance of Traffic. Please refer to the Roadway Plans for the TCP.
2. See the Approach Slab Sheet In Roadway Plans for details.
3. Asphalt on the existing bridge deck and on the proposed widening deck is not shown for clarity. See Roadway Plans for details.



PHASE I CONSTRUCTION



PHASE II CONSTRUCTION

PHASING NOTES:

PHASE I

Mill and Resurface as per Roadway Plans.

Install temporary concrete barrier as indicated on the Traffic Control Plans.

Widen East side of approach slab. Remove portion of existing wingwalls and cut piles to the elevation as shown in the abutment detail drawings. Remove existing railing and scuppers. Drive 455mm prestressed concrete pile at each intermediate bent location. Cast new portion of wingwall and widen existing deck over modified wingwalls and modified intermediate bents.

Place asphalt layer over widened deck according to the Roadway Plans.

PHASE II

Install temporary concrete barrier as indicated on the Traffic Control Plans.

Widen West side of approach slab. Remove portion of existing wingwalls and cut piles to the elevation as shown in the abutment detail drawings. Remove existing railing and scuppers. Drive 455mm prestressed concrete pile at each intermediate bent location. Cast new portion of wingwall and widen existing deck over modified wingwalls and modified intermediate bents.

PHASE III

Remove temporary concrete barrier.

Resurface according to the Roadway Plans. See Traffic Control Plans.

I:\proj\9523-01\Drawings\working\phase01.dgn

12.59.27
23 JUN 98

REVISIONS				ENGINEER OF RECORD:		ENGINEER OF RECORD:		FLORIDA DEPARTMENT OF TRANSPORTATION		SHEET TITLE:	
Date	By	Description	Date	By	Description	Names	Dates	ROAD NO.	COUNTY	PROJECT NO.	Drawing No.
						BL	8-97	SR-29	GLADES	05090-3511	PHASE CONSTRUCTION
						SB	8-97				Index No.
						SB	8-97				
						RTC	8-97				
						J. Registe, P.E.					

JMI ENGINEERS, INC.
900 Winderley Place, Ste. 148
Maitland, Florida 32751
Tel: 407-875-1550 Fax: 407-875-0560

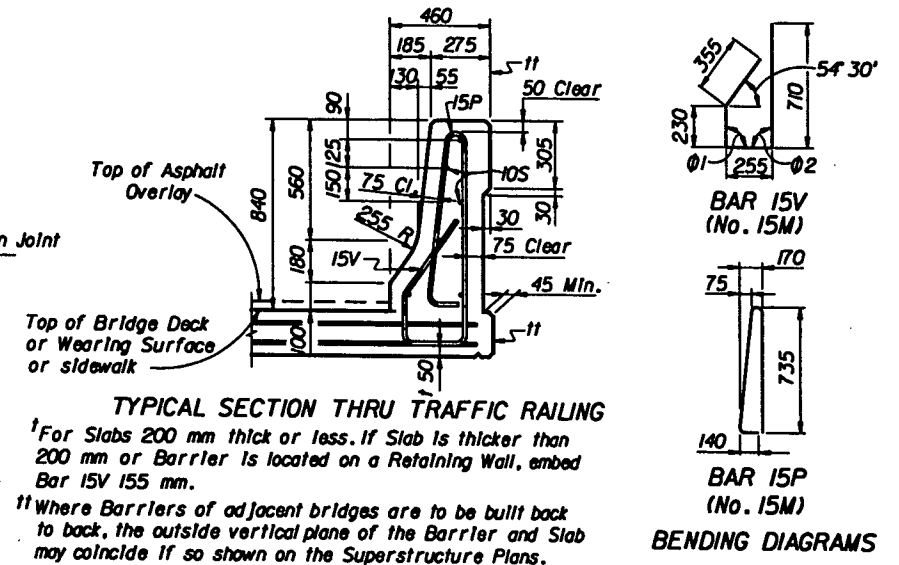
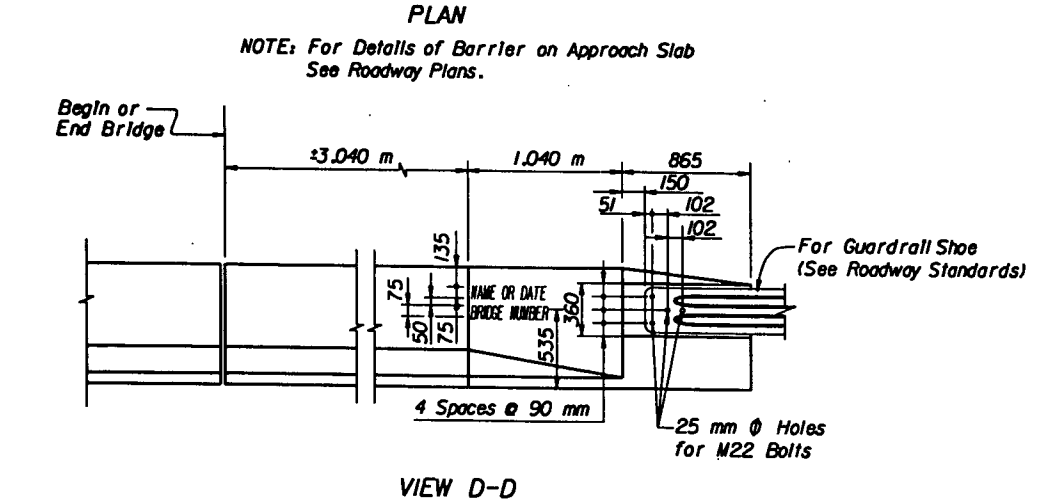
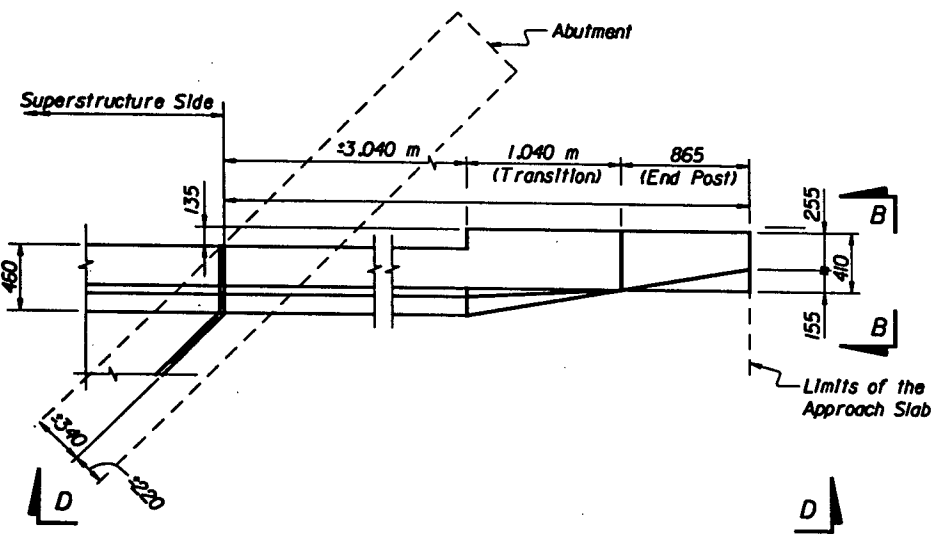
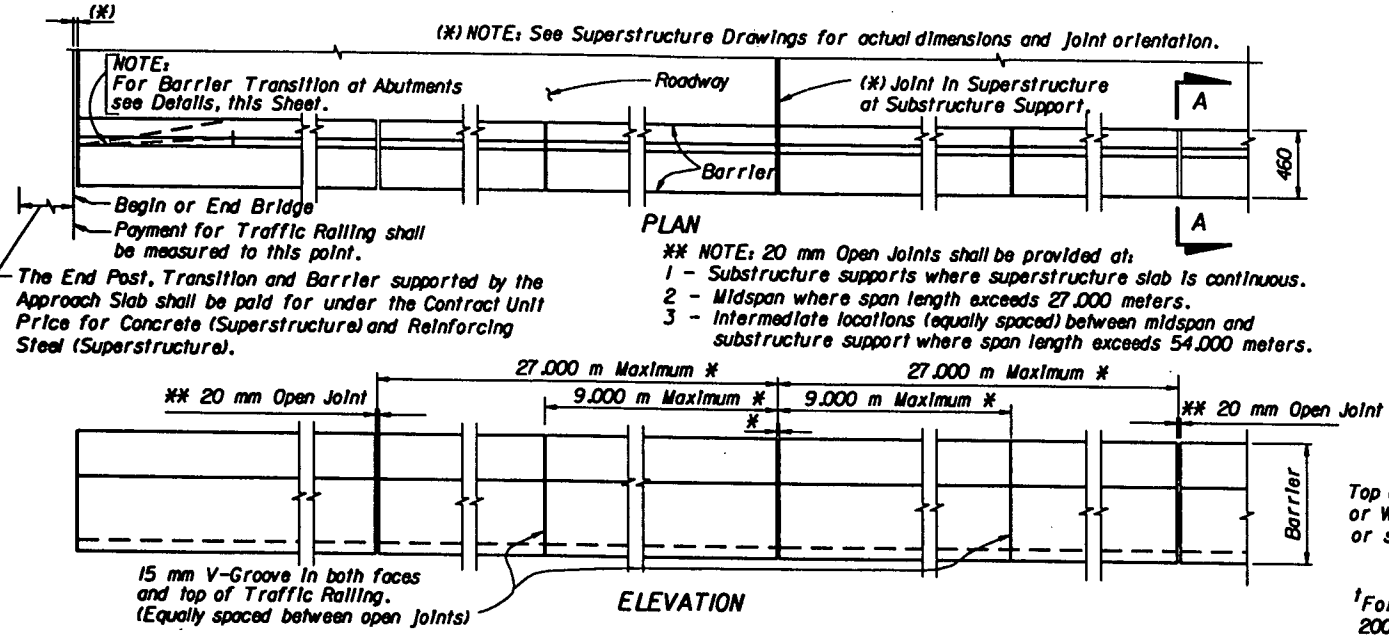
CORZO CASTELLA CARBALLO THOMPSON SALAMAN, P.A.
ENGINEERS-ARCHITECTS-PLANNERS
901 PONCE DE LEON BLVD., SUITE 900
CORAL GABLES, FLORIDA 33134
MIAMI (305)-445-2900 FLORIDA (800)-448-8227
FL REGISTRATIONS: EB8005622 AAC082142

SEAL
6/24/98

FLORIDA DEPARTMENT OF TRANSPORTATION
STRUCTURES DESIGN OFFICE

PROJECT NAME: **S.R. 29 BRIDGE NOS.**
050941, 050035, 050032, & 050031

ROADWAY CROSS-SLOPE	LOW GUTTER	HIGH GUTTER	LOW GUTTER	HIGH GUTTER
	Ø1	Ø2	Ø1	Ø2
0% to 2%	90"	90"	90"	90"
2%* to 6%	93"	87"	87"	93"
6%* to 10%	96"	84"	84"	96"



BAR BENDING NOTES

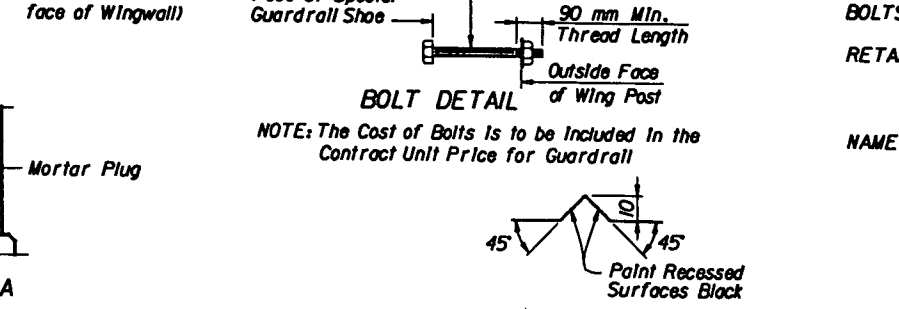
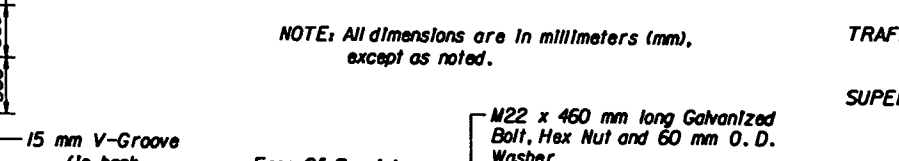
1. All bar dimensions in the bending diagrams are out to out.
2. Bars 15P and 15V shall be bent around a pin diameter = 65 mm.
3. The 230 mm and the 710 mm vertical dimensions shown for Bar 15V are based on a bridge slab 200 mm thick or greater and without raised sidewalk or wearing surface. If the slab thickness is less than 200 mm decrease these dimensions by an amount equal to the difference in the thicknesses; and if a wearing surface or a raised sidewalk is to be provided, increase the dimensions by an amount equal to the wearing surface thickness or sidewalk thickness.
4. Reinforcement for Barrier on Retaining Wall shall be the same as detailed above for a 200 mm slab with Ø1 = Ø2 = 90°.

TYPICAL TRAFFIC RAILING QUANTITIES

CONCRETE: 0.258 m³ per meter.

REINFORCING STEEL: 29.67 kg per meter.

(Above quantities are based on 200 mm slab and 2% cross-slope).



NOTE: When open joint in Barrier is not coincident with joint in the superstructure, the lower 100 mm portion of the open joint shall be plugged by filling with mortar in accordance with Article 400-15J.

SECTION A-A

Mortar Plug

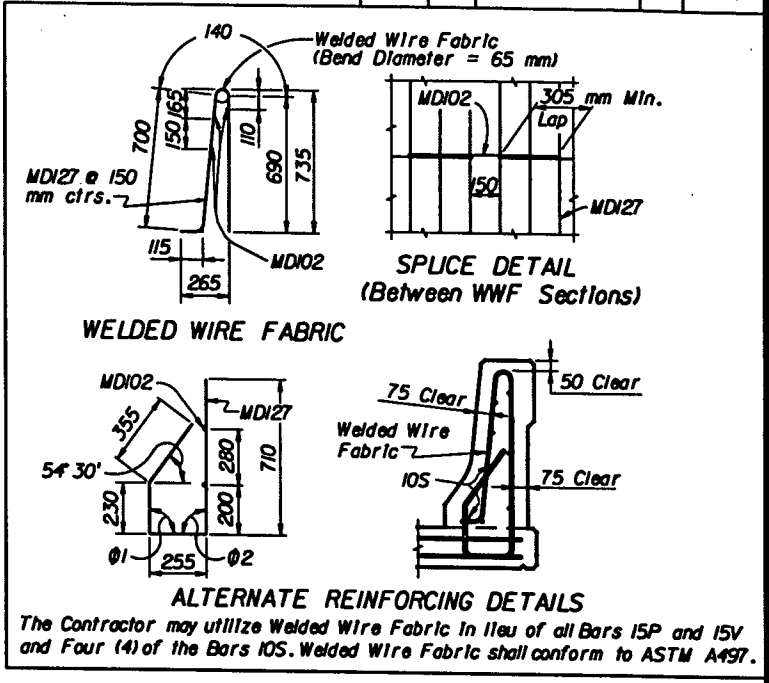
75 Min.

100

TO FORM INSCRIBED LETTERS AND FIGURES

SECTION THRU RECESSED V-GROOVE

Paint Recessed Surfaces Black



Inpro:lec:s9523-01nd:ra:ings:war:ing:road700.dgn
 23 JUN 98 14:35:08

REVISIONS

Date	By	Description	Date	By	Description

ENGINEER OF RECORD:

JMI ENGINEERS, INC.
 900 Winderley Place, Ste. 148
 Maitland, Florida 32751
 Tel: 407-875-5550 Fax: 407-875-0560

ENGINEER OF RECORD:

CORZO CASTELLA CARBALLO THOMPSON SALMAN, P.A.
 ENGINEERS-ARCHITECTS-PLANNERS

901 PONCE DE LEON BLVD., SUITE 900
 CORAL GABLES, FLORIDA 33134
 MIAMI (305) 445-2700 FLORIDA (888) 448-8227
 FL REGISTRATIONS: EC0005822 AAC002142

FLORIDA DEPARTMENT OF TRANSPORTATION

STRUCTURES DESIGN OFFICE

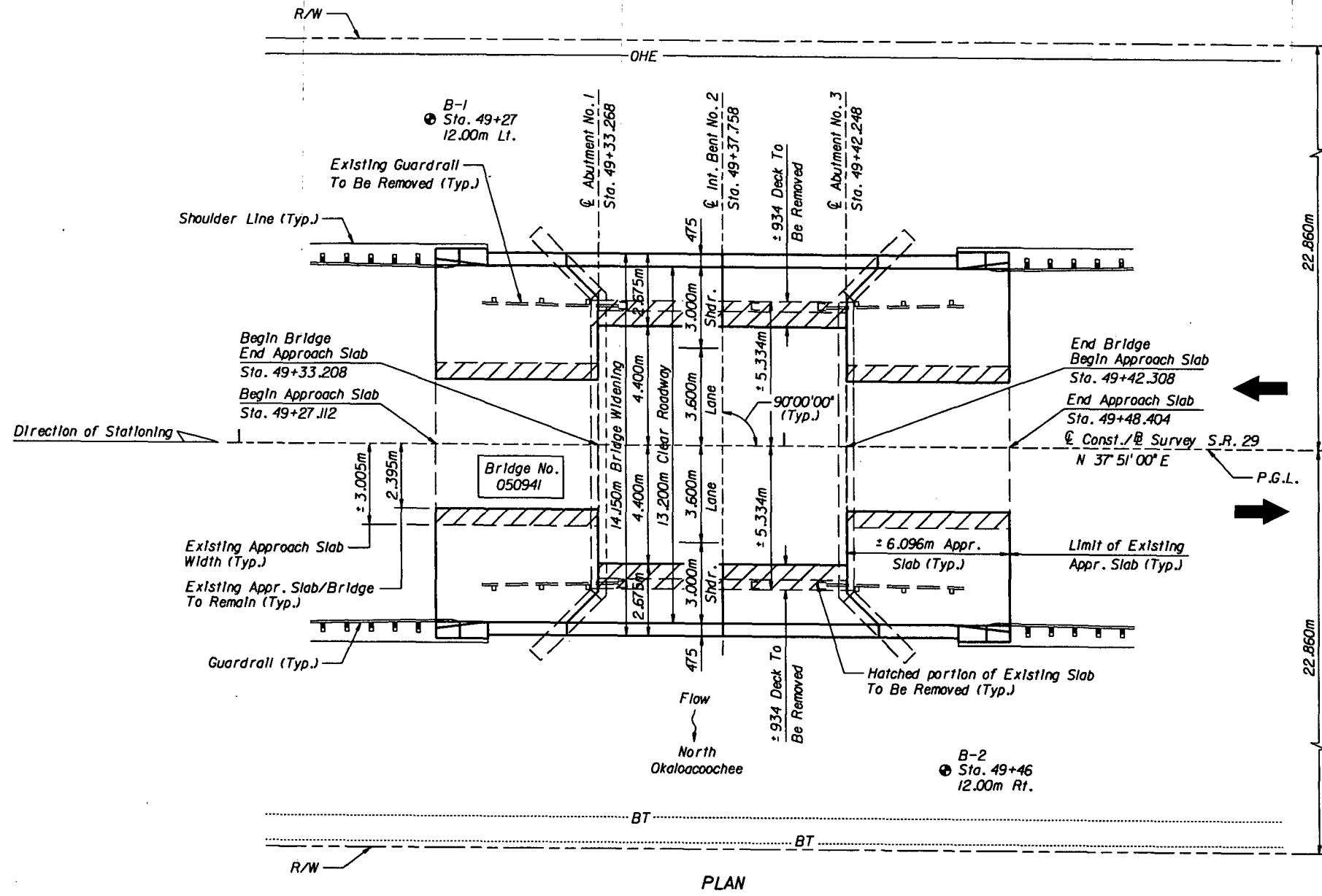
ROAD NO. SR-29 COUNTY GLADES PROJECT NO. 05090-3511

MODIFIED TRAFFIC RAILING BARRIER

PROJECT NAME: S.R. 29 BRIDGE NOS. 050941, 050035, 050032 & 050031

Drawing No. Index No.

FED. ROAD DIST. NO.	STATE	PROJECT NO.	FISCAL YEAR	SHEET NO.
3	FLA.			B-1



TRAFFIC DATA

1997 AADT = 4300
 1999 EST. AADT = 4500
 2019 EST. AADT = 7000

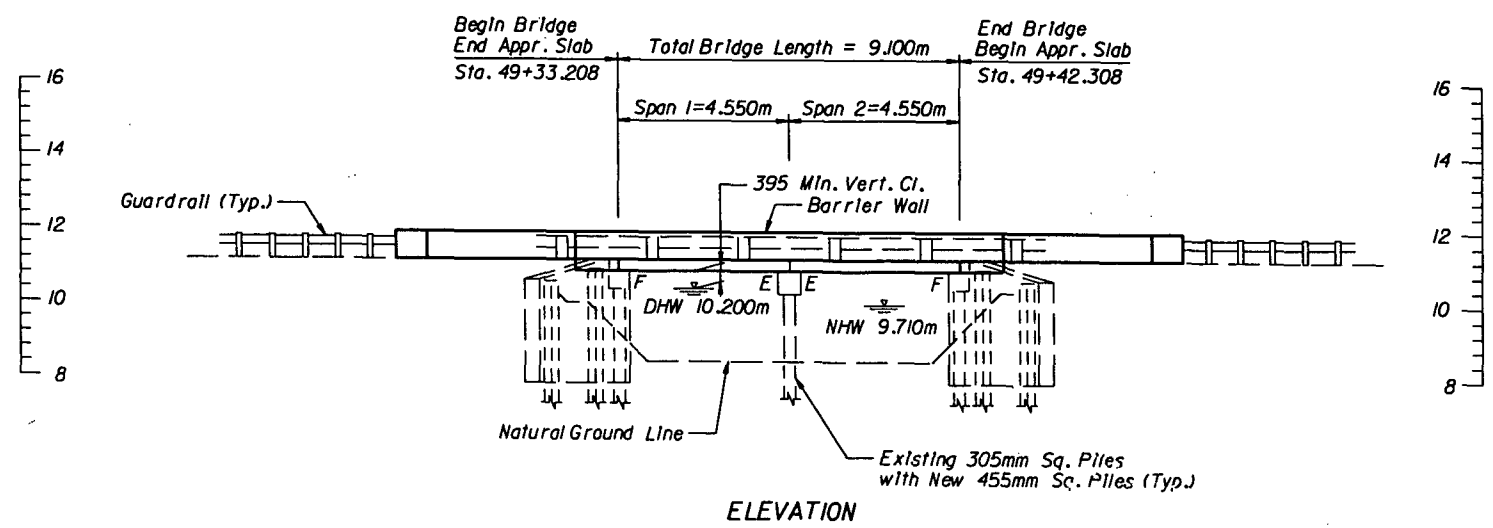
K = 10.9%
 D = 53.9%
 T = 25.0% (24 HR.)
 T = 12.5% (DESIGN HR.)

DESIGN SPEED 100 km/h

Begin Bridge Sta. 49+33.208 El. 10.975
 End Bridge Sta. 49+42.308 El. 10.975

0.00% Grade 0.00% Grade 0.00% Grade

PROFILE GRADE S.R. 29
 (Along \hat{C} Construction)



NOTE:

1. Elevations shown in the Profile Grade Diagram refer to top of deck elevations. The PGL elevations is a maximum of 70 mm above the \hat{C} deck elevation due to the asphalt overlay. Refer to the Roadway Plans for the asphalt overlay.

16:33:22 18:33:22 16:33:22 18:33:22 16:33:22 18:33:22 16:33:22 18:33:22 16:33:22 18:33:22

REVISIONS			
DATE	BY	DESCRIPTION	

NAME	DATE
DRAWN BY BL	8-97
CHECKED BY SB	8-97
DESIGNED BY SB	8-97
CHECKED BY RTC	8-97
APPROVED BY	

ENGINEER OF RECORD:

CORZO CASTELLA CARBALLO THOMPSON SALMAN, P.A.
 ENGINEERS ARCHITECTS PLANNERS

901 PONCE DE LEON BLVD., SUITE 900
 CORAL GABLES, FLORIDA 33134
 MIAMI (305) 448-2900 FLORIDA (888) 448-8227
 FL REGISTRATIONS: EB889522 AAC02142

SEAL: *[Signature]* 6/22/98

FLORIDA DEPARTMENT OF TRANSPORTATION
STRUCTURES DESIGN OFFICE

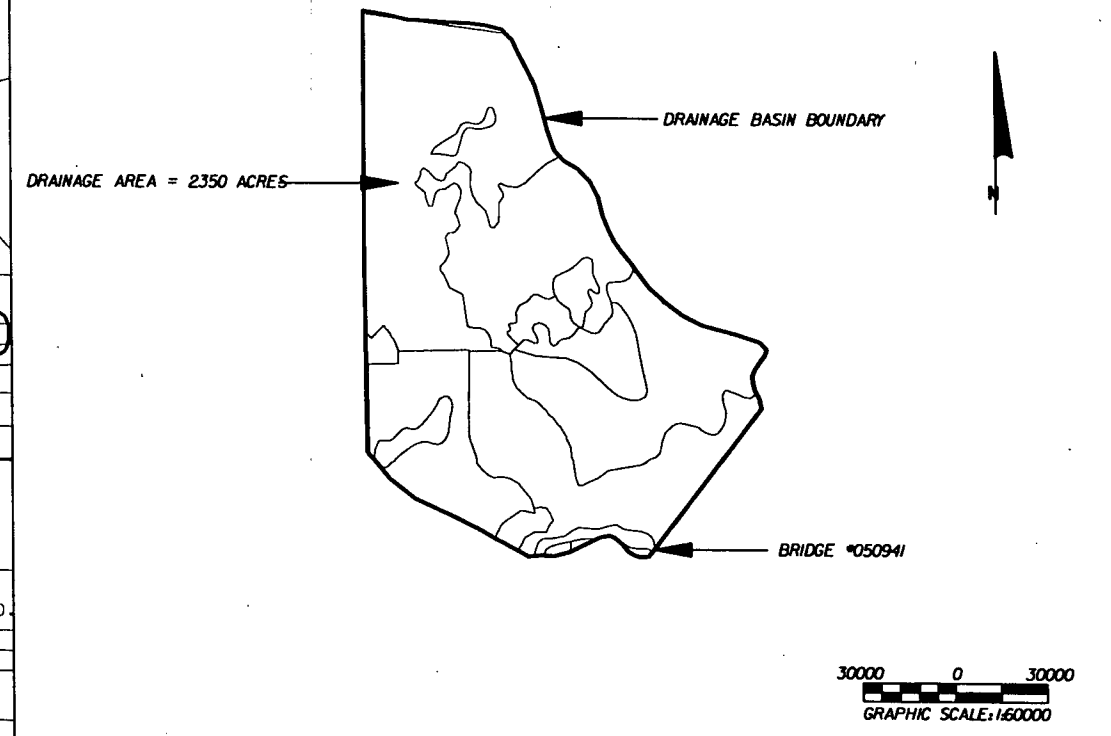
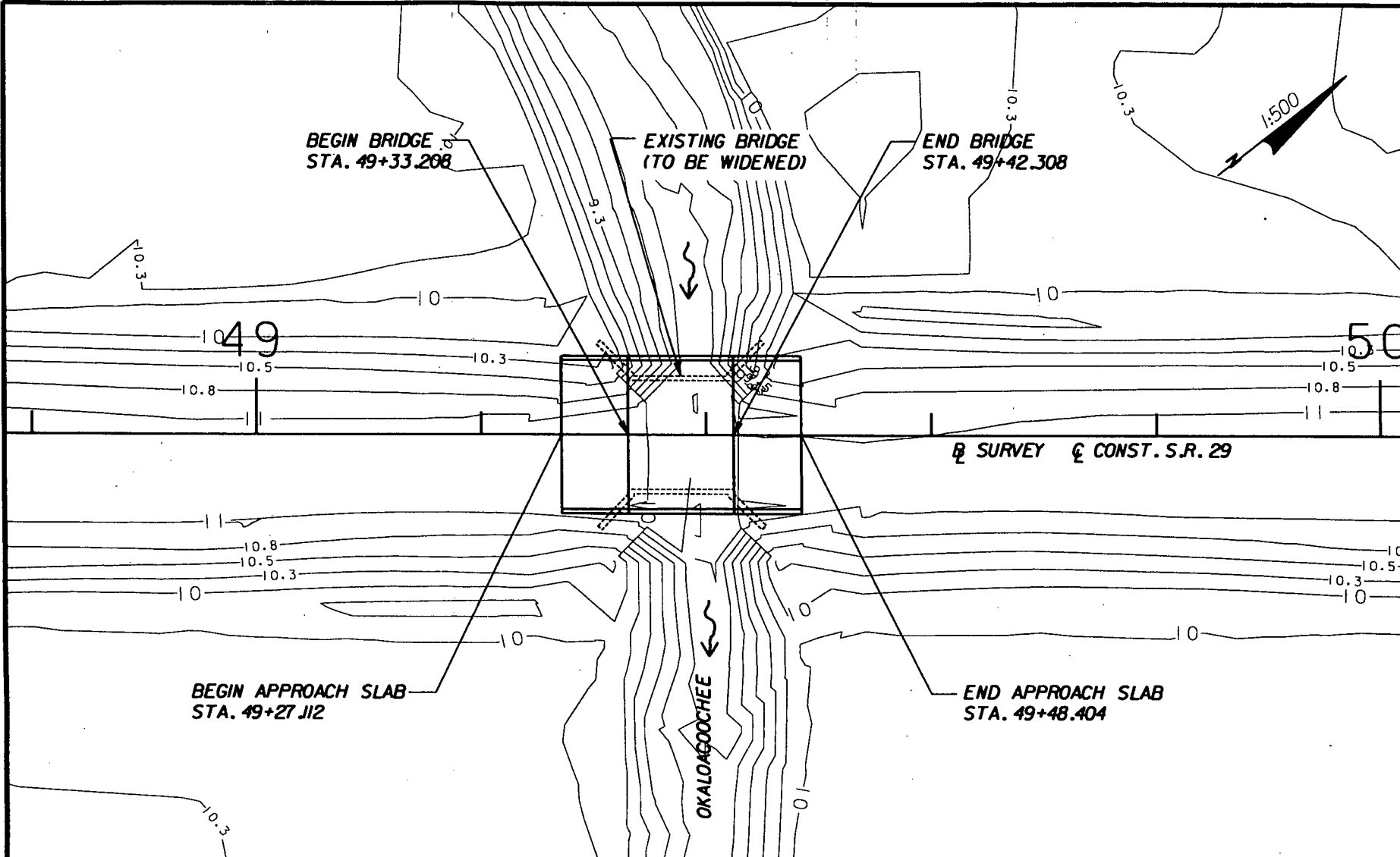
ROAD NO.	COUNTY	PROJECT NO.
SR-29	GLADES	05090-3511

W.P.J. No. 1110874

SHEET TITLE: **PLAN AND ELEVATION**

PROJECT NAME: **S.R. 29 BRIDGE OVER NORTH OKALOOCOCHEE, BRIDGE NO. 050941**

DRAWING NO. INDEX NO.



(REFERENCE) FOUNDATION	EXISTING STRUCTURES				ASSUMED CONFIGURATION
	(1)	(2)	(3)	(4)	
0.305 PILES					0.305 PILES
OVERALL LENGTH	(+/-) -19.100				(+/-) -19.100
SPAN LENGTH	(+/-) -14.550				(+/-) -14.550
TYPE CONSTRUCTION	FLAT SLAB				FLAT SLAB
AREA OF OPENING @ H.W.	(+/-) -19.400M2				(+/-) -19.402M2
ROADWAY WIDTH	10.668				14.150
ELEV. LOW MEMBER	10.595				10.595

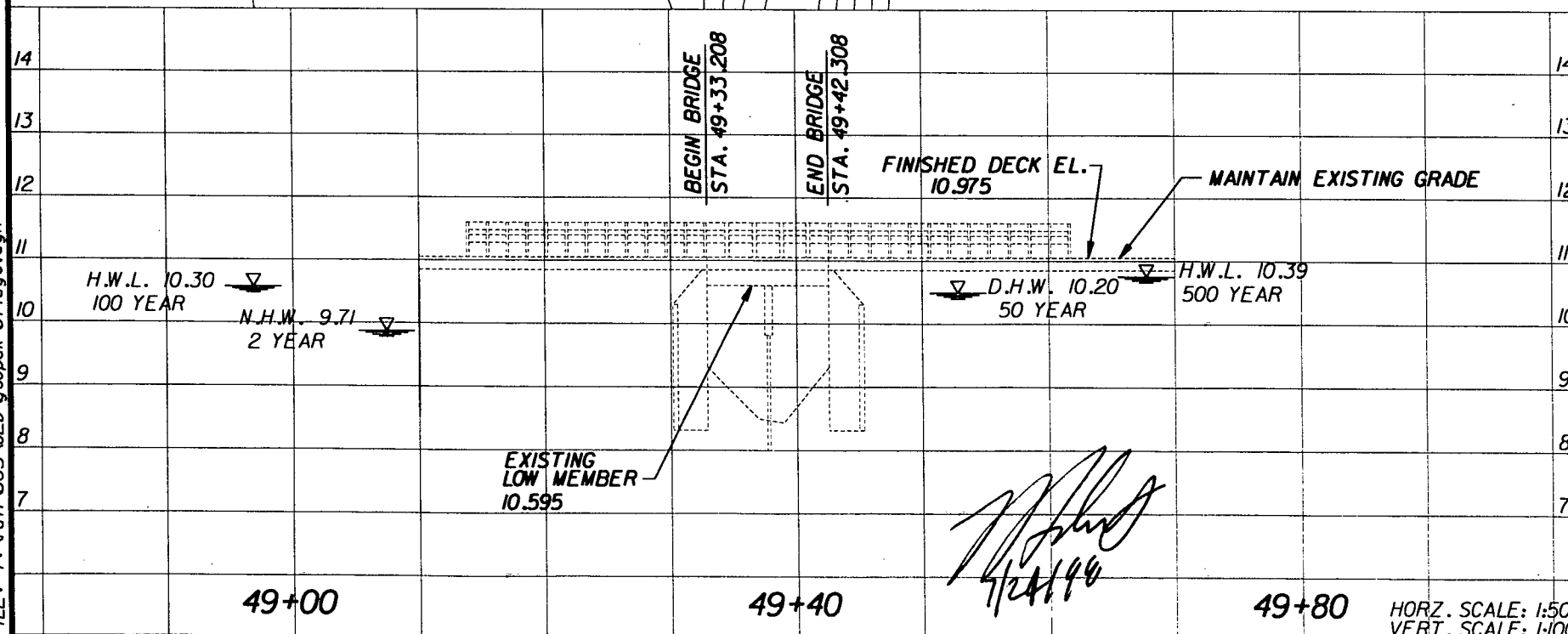
HYDRAULIC DESIGN DATA
NOTE: The hydraulic data is shown for informational purposes only to indicate the flood discharges and water surface elevations which may be anticipated in any given year. This data was generated using highly variable factors determined by a study of the watershed. Many judgements and assumptions are required to establish these factors. The resultant hydraulic data is sensitive to changes, particularly antecedent conditions, urbanization, channelization and land use. Users of this data are cautioned against the assumption of precision which cannot be obtained.

DEFINITIONS:
Design Flood: The flood utilized to assure a desired level of hydraulic performance.
Base Flood: The flood having a 1% chance of being exceeded in any year. (100 Year Frequency)
Overtopping Flood: The flood which causes flow over the highway, over a watershed divide or thru emergency relief structures.
Greatest Flood: The most severe flood which can be predicted where overtopping is not practicable.

WATER SURFACE ELEVATIONS: N.H.W. (Non-Tidal) 9.71 M.H.W. N/A M.L.W. N/A

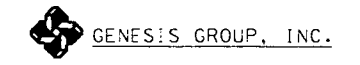
FLOOD DATA:	MAX. EVENT OF RECORD	DESIGN FLOOD	BASE FLOOD	<input type="checkbox"/> OVERTOPPING FLOOD
STAGE ELEV. NGVD (M)	UNKNOWN	10.20	10.30	<input type="checkbox"/> 10.39
DISCHARGE (CM/S)	UNKNOWN	11.89	14.61	<input type="checkbox"/> 22.0
AVERAGE VELOCITY (M/S)	UNKNOWN	0.59	0.52	<input type="checkbox"/> 0.48
EXCEEDANCE PROB. (%)	UNKNOWN	2.0%	1.0%	<input type="checkbox"/> 0.2%
FREQUENCY (YR.)	UNKNOWN	50	100	<input type="checkbox"/> 500

- HYDRAULIC RECOMMENDATIONS**
- BEGIN BRIDGE STATION 49+33.208 END BRIDGE STATION 49+42.308 SKEW ANGLE 0°
 - CHANNEL SECTION @ STATION 49+38 BOTTOM WIDTH 9.14 ELEV. 8.45 SIDE SLOPE 4:1
 - LIMITS OF CHANNEL EXCAVATION: RT. 0 LT. 0
 - CLEARANCE: NAVIGATION: HORIZ. N/A VERT. N/A ABOVE EL. N/A DRIFT: HORIZ. 9.14 VERT. 1.28 ABOVE EL. 9.71
 - SCOUR PREDICTION: 100 YEAR DESIGN SCOUR EL. 6.70 DEPTH = 4.19
500 YEAR SCOUR EL. 6.88 DEPTH = 4.55
 - SLOPE PROTECTION: NONE
 - DECK DRAINAGE: RUNOFF WILL SHEET FLOW OFF BRIDGE THRU REPLACEMENT SCUPPERS
 - OTHER:



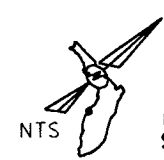
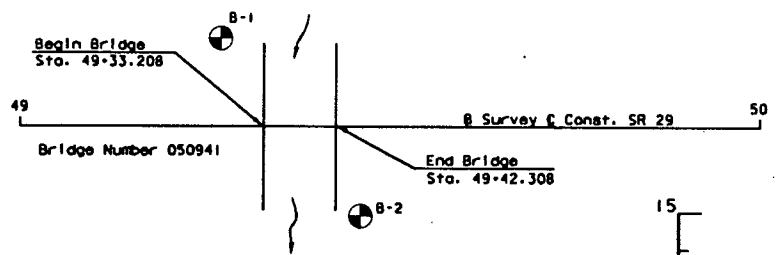
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FILE: f:\vdi\005\2b\geopak\bridge.dgn

DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION



FLORIDA DEPARTMENT OF TRANSPORTATION

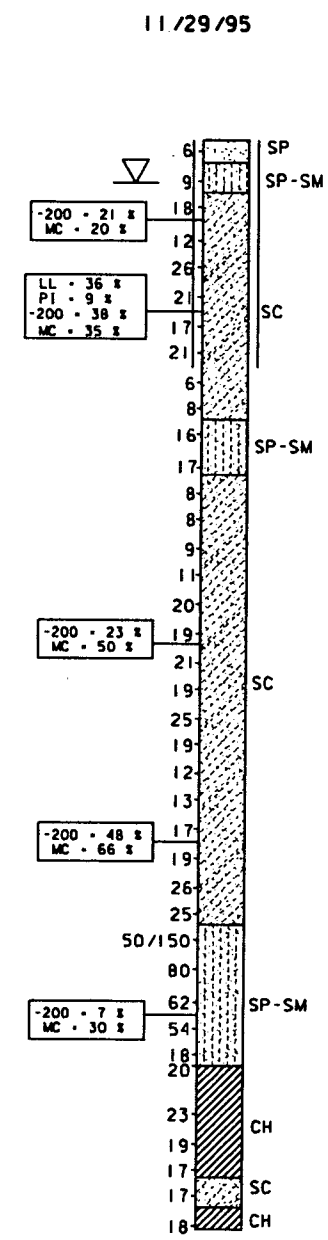
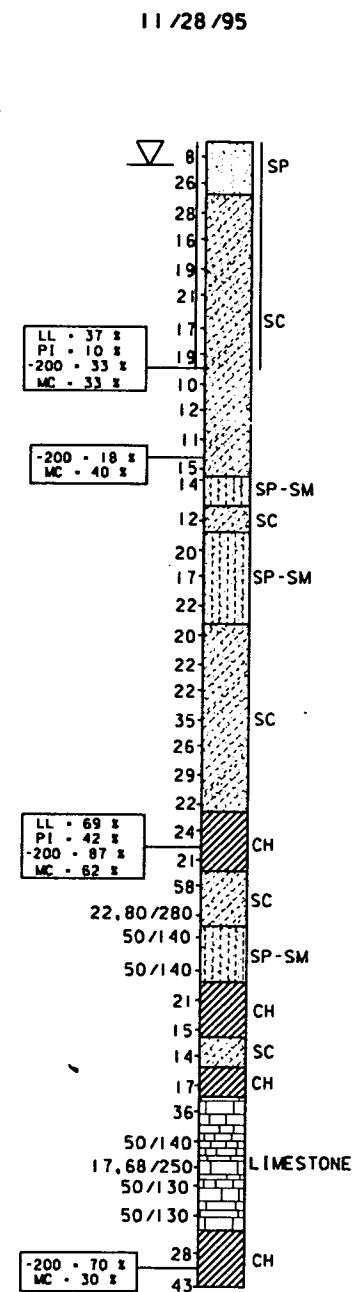
**BRIDGE HYDRAULIC RECOMMENDATIONS
S.R. 29 BRIDGE NO. 050941**



BORING NO. B-1
Sta. 49+27
12m LT. of Centerline
Elev. 10.53 m

BORING NO. B-2
Sta. 49+46
12m RT. of Centerline
Elev. 10.62 m

Elevation in meters, NGVD



LEGEND :

- SP. Poorly graded sands, sand-silt mixtures.
- SC. Clayey sands, sand-clay mixtures.
- SP-SM. Poorly graded sands and gravelly sands, to silty sands, sand-silt mixtures.
- CH. Inorganic clays of High plasticity, fat clays.
- Limestone

NOTES :

Numbers to the left of borings indicate SPT values for 300 mm penetration. (Unless otherwise noted.)

50/90 - Numbers of blows for 90 mm of penetration.

▽ - Water Table

□ - Casing used

Rig Used - Falling 1500

Hammer Type - 63.5 kn Manual

WATER :

Resistivity : 8970 ohm-cm, Chlorides : 40 ppm, Sulfates : <2, pH : 5.9.

ENVIRONMENTAL CLASSIFICATION

Substructure : Concrete : Moderately Aggressive
Steel : Extremely Aggressive (Due to pH)

Superstructure : Slightly Aggressive

Granular Materials - SPT (Blows/300mm)

Very Loose	Less than 4
Loose	4 - 10
Medium or Compact	10 - 30
Dense	30 - 50
Very Dense	Greater than 50

Silts and Clays - SPT (Blows/300mm)

Very Soft	Less than 2
Soft	2 - 4
Firm	4 - 8
Stiff	8 - 15
Very Stiff	15 - 30
Hard	Greater than 30

REVISIONS

Date	By	Description	Date	By	Description
11/18/96	TNP	Hammer Type revised	02/10/97	MEH	N value's corrected
			06/20/97	TNP	Begin & End Bridge stations, corrected
					Sheet Numbers, added

ENGINEER OF RECORD:
MATERIALS OFFICE
DISTRICT 1
801 N. Broadway
Bartow, Florida 33830-1249

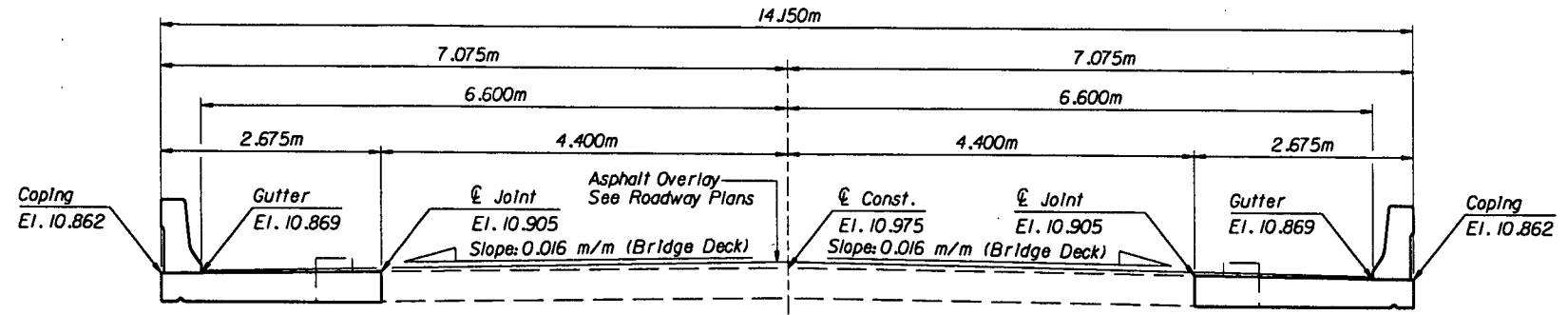


SEAL: *Alexander Puckett*
6/20/97

FLORIDA DEPARTMENT OF TRANSPORTATION		
MATERIALS OFFICE		
ROAD NO.	COUNTY	PROJECT NO.
29	Glades	05090-3511

SHEET TITLE:		Drawing No.
Report of Core Borings		1
PROJECT NAME:		Index No.
SR 29/over Okaloacoochee		

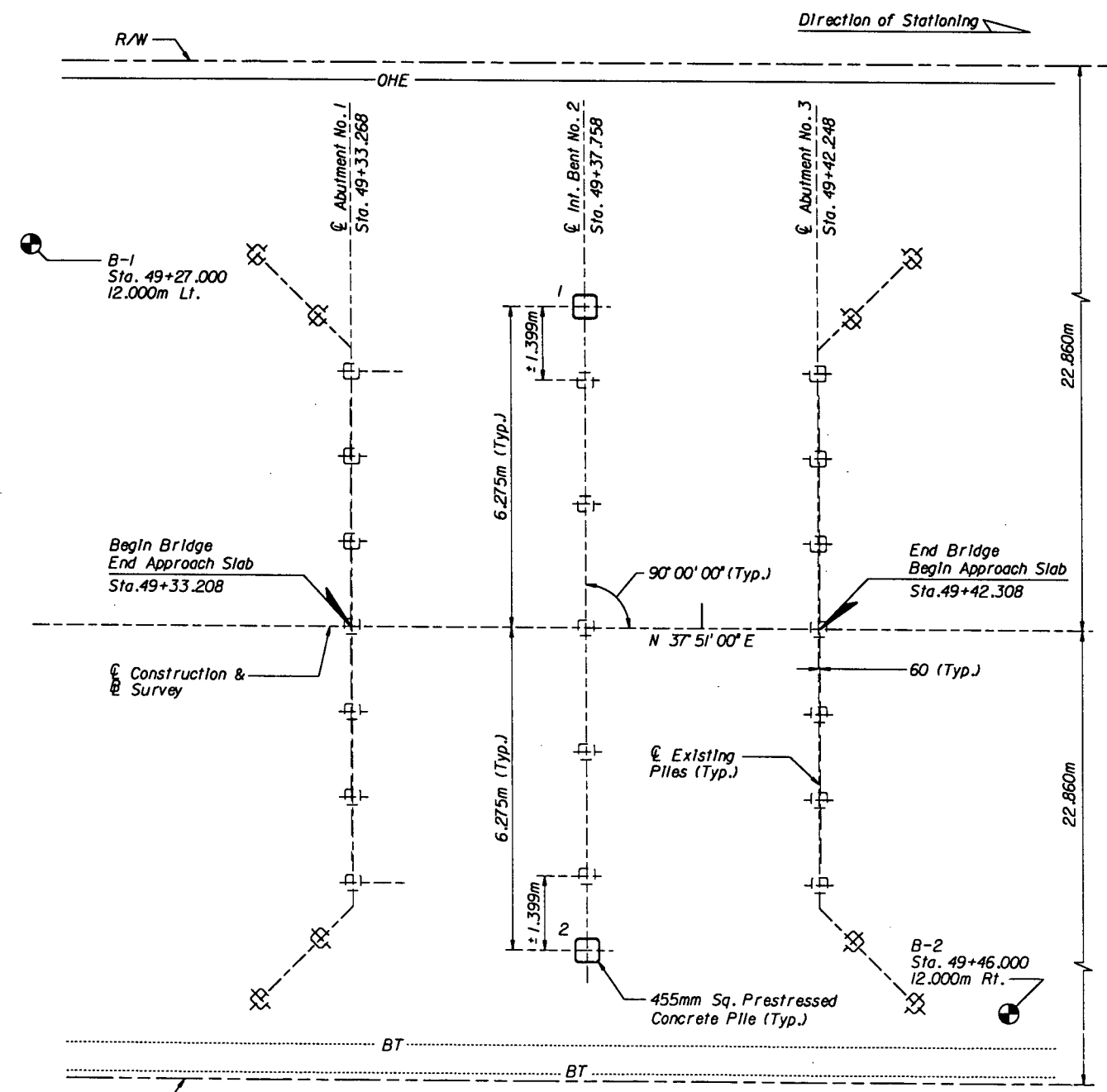
F.T. JUN. 20 11:22:08 1997 /usr4/drc17/solis/205151b.dgn



SECTION THRU SUPERSTRUCTURE SHOWING FINISH DECK ELEVATIONS

NORTH OKALOACOOCHEE BRIDGE # 05094I										
Bent	Pile Size (mm)	Design Load (kN)	Min. Tip Elev. (m, NGVD)	Scour Elev. (m, NGVD)	Total Scour Resistance* (kN)	Total Down Drag (kN)	Reqd. Preform to Elev. (m)	Reqd. Jet to Elev. (m)	Net Scour Resistance** (kN)	Test Pile Length (m)
2	455	280	0.0	+6.7	200	N.A.	N.A.	N.A.	200	N.A.

RDR = (Design Load x FS) + Net Scour Resistance + Total Downdrag where FS is the appropriate safety factor in accordance with the Standard Specifications A455-3J2.2



FOUNDATION LAYOUT

NOTES:

- * Total side resistance from ground line to the scour elevation.
- ** Net side friction resistance from the required preformed or jetting elevation to the scour elevation.
- RDR is the Required Driving Resistance. All piles shall be driven to the design load times the appropriate factor of safety in accordance with Section A455-3J2.2 of the Standard Specifications plus the total downdrag and net scour resistance.
- Pile driving criteria will be established using the Wave Equation Method by the District Geotechnical Office.
- If jetting or preforming elevations differ from those on the table, the engineer shall be responsible for determination of the required driving resistance.
- Scour has been considered in the design with scour elevations shown in the table.
- The minimum tip elevation shown is required for lateral stability. Under no circumstance shall the pile be installed above the minimum tip elevation shown in the table.
- Recommended Production Pile Lengths are 12.000m.

LEGEND:

- Denotes 455mm Sq. Prestressed Concrete Piles
- Denotes 305mm Sq. Concrete Existing Piles

GENERAL NOTES:

- All New Piles are 455mm Sq. Prestressed Concrete Piles.
- All New Piles are Plumb.
- For the Pile Cutoff Elevations, see Substructure sheets.
- All existing piles are to remain.


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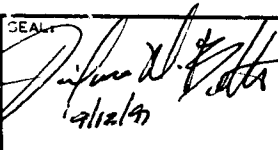
Brief's Computer

13/09/95 Brief's Computer

REVISIONS					
Date	By	Description	Date	By	Description

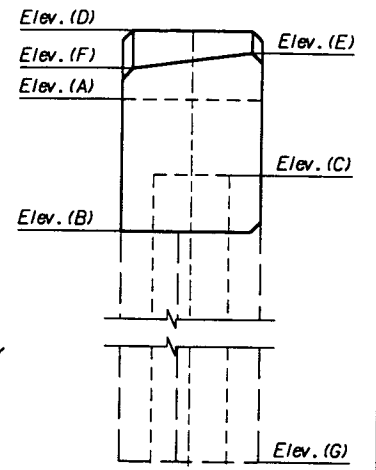
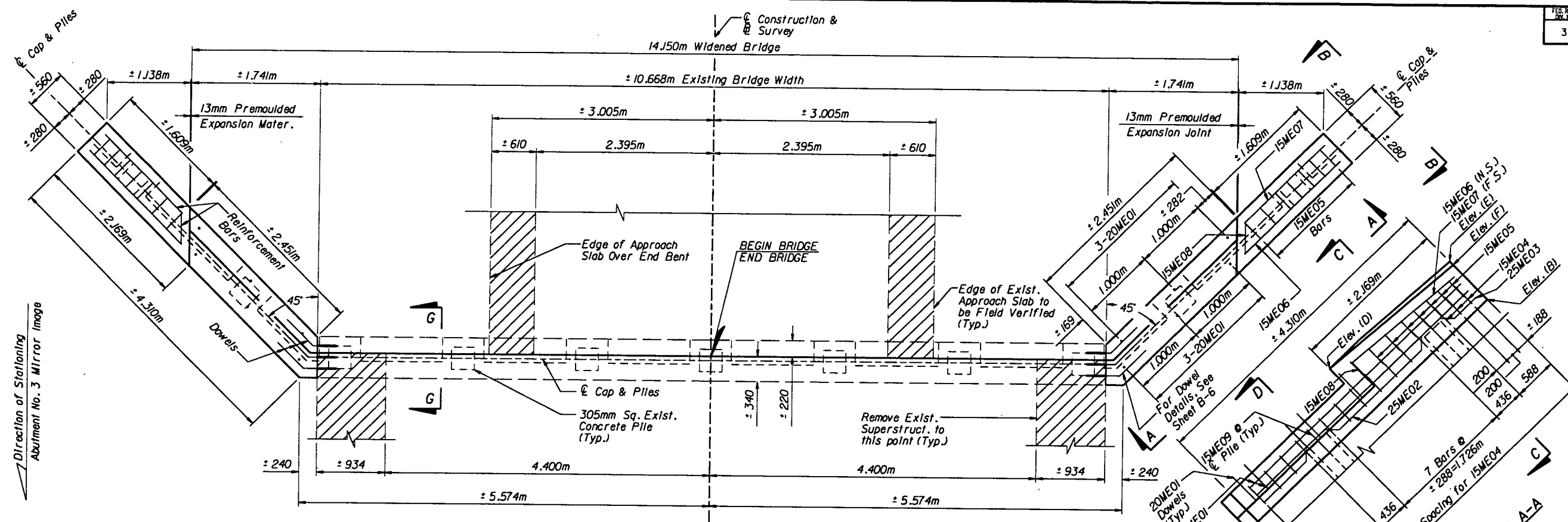
Names	Dates
Drawn by B. Loeffler	August 1997
Checked by S. Beltre	August 1997
Designed by S. Beltre	August 1997
Checked by R.T. Carballo	August 1997
Approved by R.T. Carballo, P.E.	

ENGINEER OF RECORD:
 CORZO CASTELLA CARBALLO THOMPSON SALZMAN, P.A.
 ENGINEERS ARCHITECTS PLANNERS
 901 PONCE DE LEON BLVD., SUITE 900
 CORAL GABLES, FLORIDA 33134
 MIAMI (305)-445-2900 FLORIDA (800)-448-0222
 THOMPSON SALZMAN
 FL REGISTRATIONS: EB8005022 AAC002142

SEAL

 R.T. Carballo

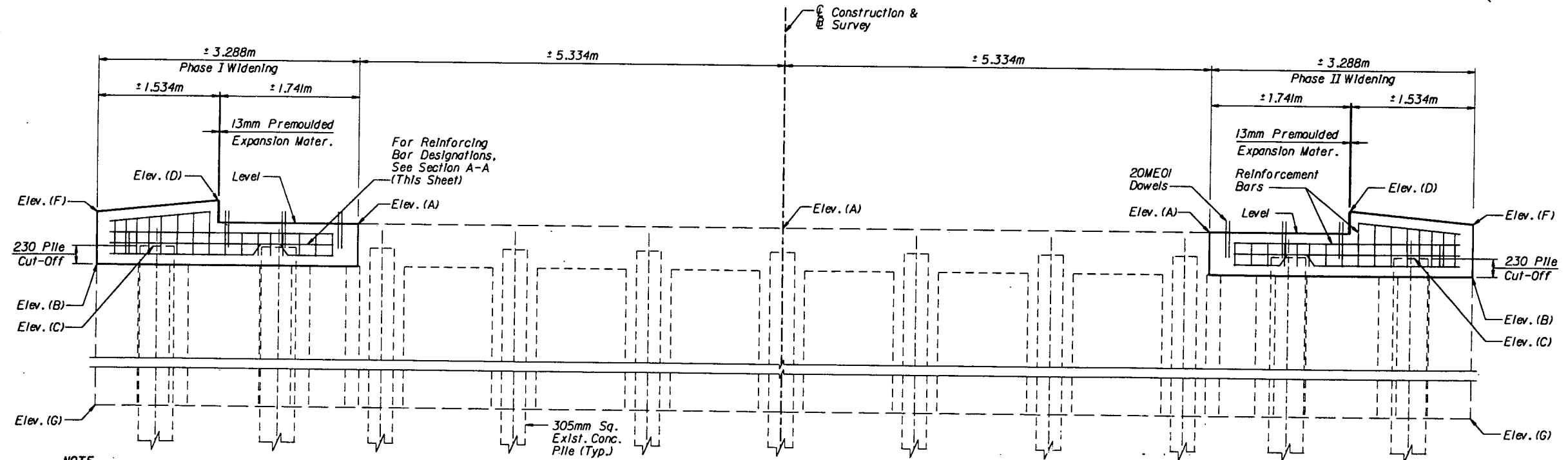
FLORIDA DEPARTMENT OF TRANSPORTATION
 STRUCTURES DESIGN OFFICE
 ROAD NO. SR-29 COUNTY GLADES PROJECT NO. 05090-3511

SHEET TITLE: FOUNDATION LAYOUT & FINISH GRADE ELEVATIONS
 PROJECT NAME: S.R. 29 BRIDGE OVER NORTH OKALOACOOCHEE, BRIDGE NO. 05094I
 Drawing No. _____
 Index No. _____



SECTION B-B

PLAN
(Abutment No. 1 Shown, Abutment No. 3 Mirror Image)



Location	Abutment Nos. 1 & 3
Elev. (A)	10.595 (Top of Cap)
Elev. (B)	10.061 (Bottom of Cap)
Elev. (C)	10.291 (Pile Cut-Off)
Elev. (D)	10.875
Elev. (E)	10.787
Elev. (F)	10.721
Elev. (G)	*7.9248

* Elevation G has been obtained from the existing plans. Contractor to field verify if required.

LEGEND:

Area to be Removed

NOTES:

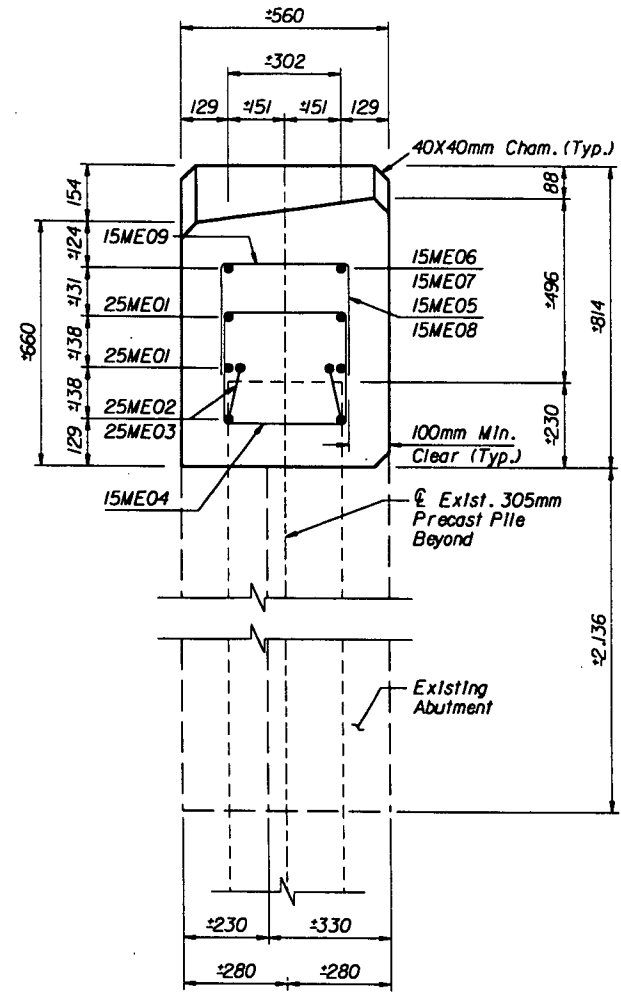
- For Estimated Quantities, See Abutment Modification Detail Sheet B-7.
- For Detailed Removal of Approach Slab, See Approach Slab Sheet in the Roadway Plans.
- All contact surfaces between old and new concrete shall be cleaned.
- For Sections C, D, and G, See Abutment Modifications Detail Sheet B-6.

NOTE:
Existing vertical steel in abutment wall shall remain in place. Bars shall be cleaned and embedded in proposed portion of cap. Where necessary existing bars shall be cut to provide 100mm minimum clearance.

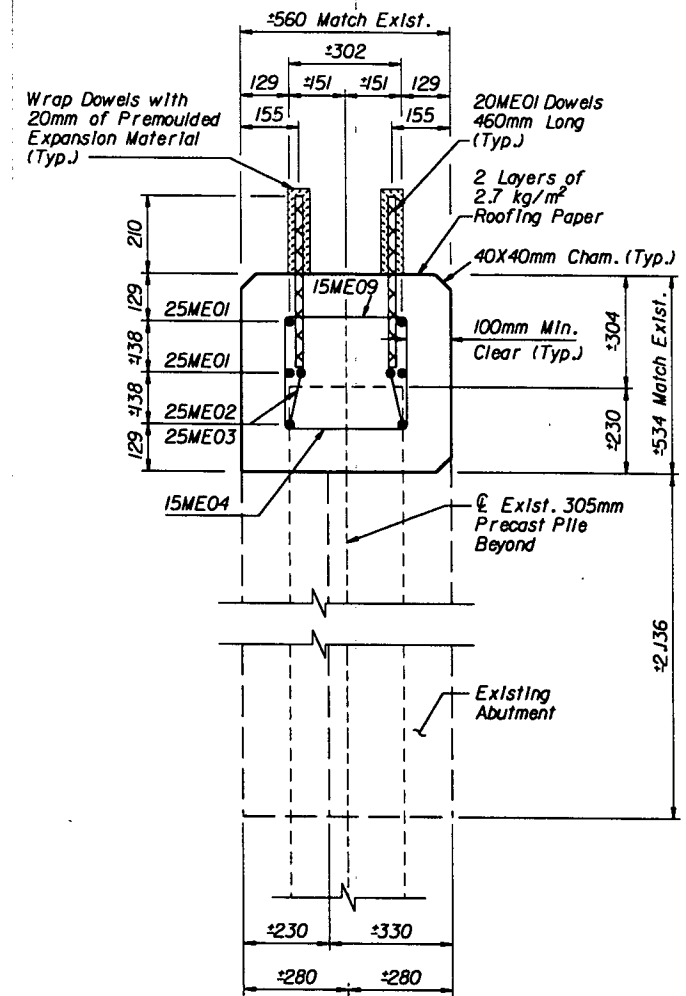
ELEVATION

13 SEP 97 13:20:54 Brief's Computer c:\p\j\leds\777-0\work\0509\okmod01.dgn

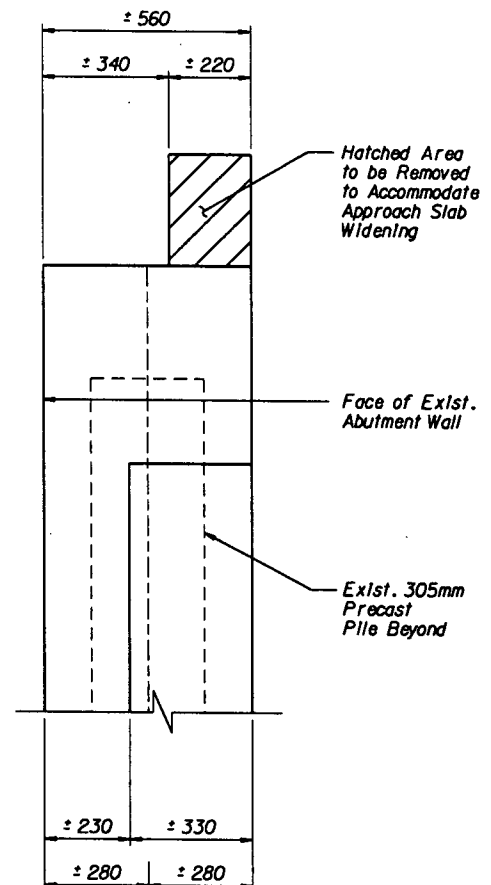
REVISIONS Date By Description Date By Description				Drawn by B. Loeffler August 1997 Checked by S. Beltre August 1997 Designed by S. Beltre August 1997 Checked by R.T. Carballo August 1997 Approved by R.T. Carballo, P.E.		ENGINEER OF RECORD: CORZO CASTELLA CARBALLO THOMPSON SALMAN, P.A. ENGINEERS-ARCHITECTS-PLANNERS 981 PONCE DE LEON BLVD., SUITE 400 CORAL GABLES, FLORIDA 33134 MIAMI (305)-445-2900 FLORIDA (888)-448-8227 FL REGISTRATIONS: EB0005022 AAC02142		FLORIDA DEPARTMENT OF TRANSPORTATION STRUCTURES DESIGN OFFICE ROAD NO. COUNTY PROJECT NO. SR-29 GLADES 05090-3511		SHEET TITLE: ABUTMENT MODIFICATIONS PROJECT NAME: S.R. 29 BRIDGE OVER NORTH OKALOACOCHEE, BRIDGE NO. 050941		Drawing No. Index No.	
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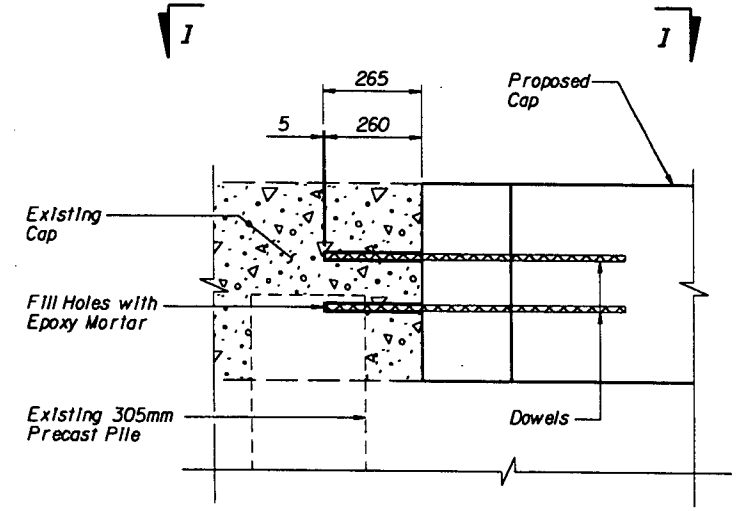
SECTION C-C



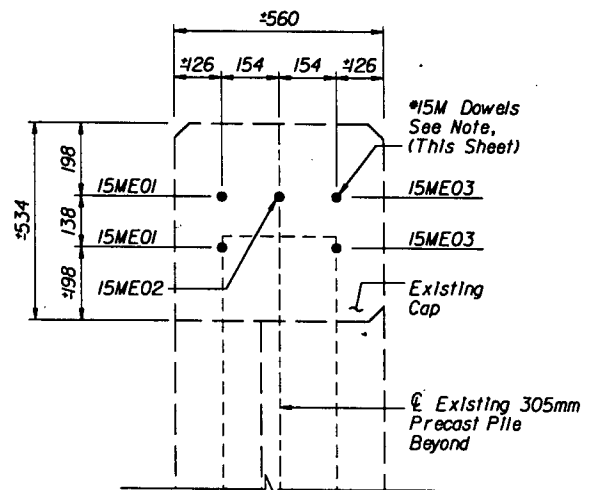
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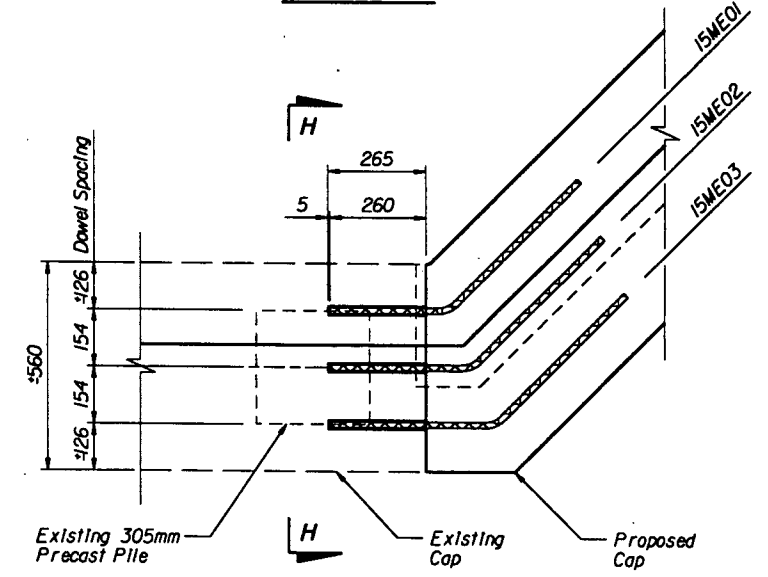
SECTION G-G



DOWEL DETAIL ELEVATION



SECTION H-H

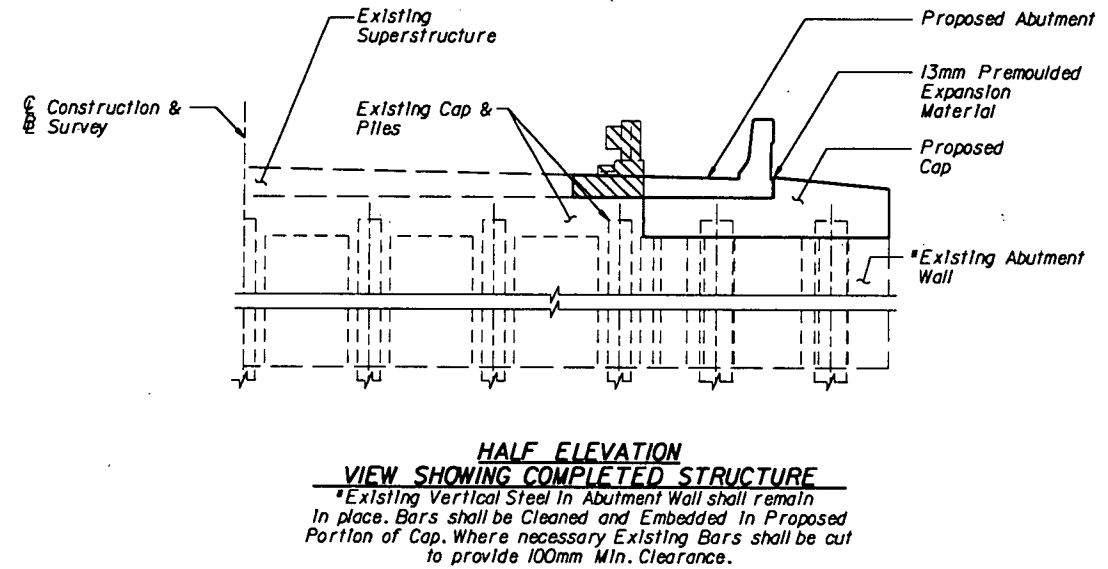
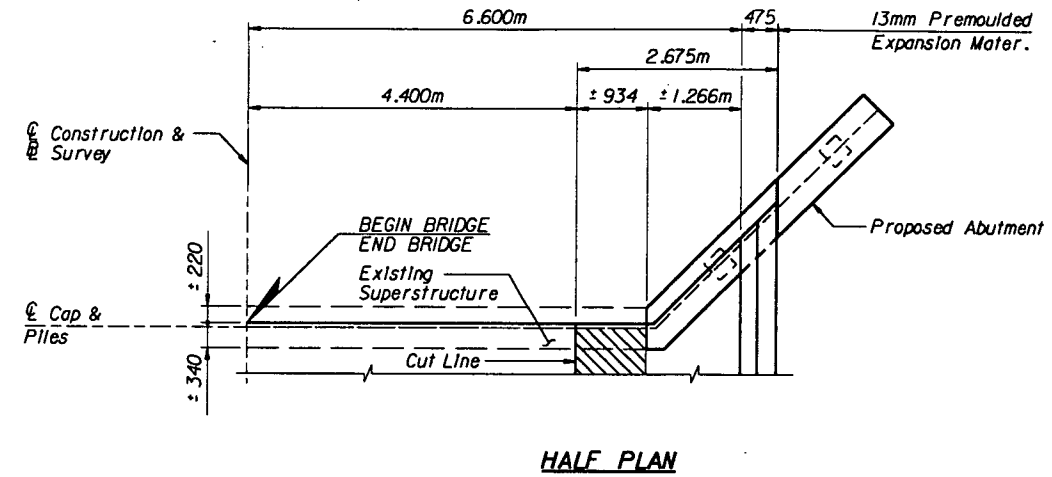
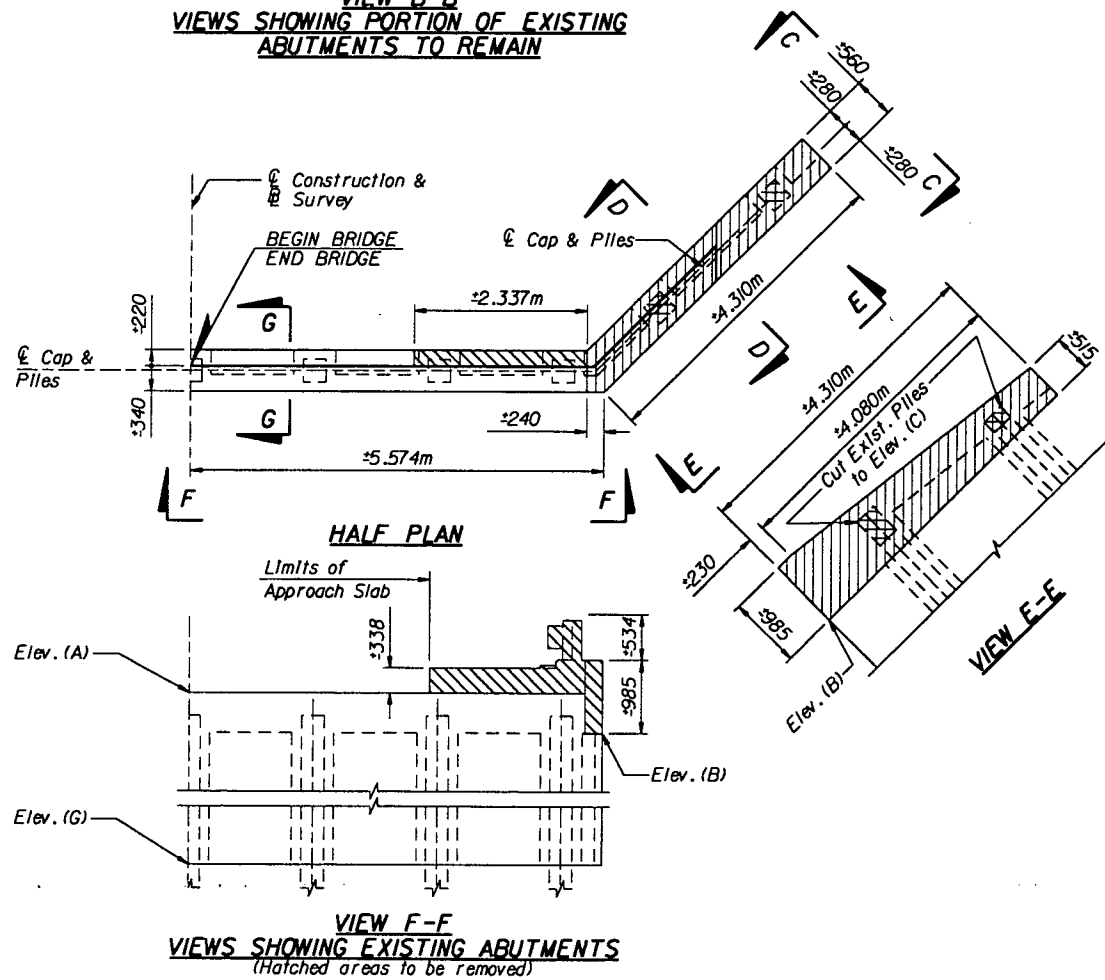
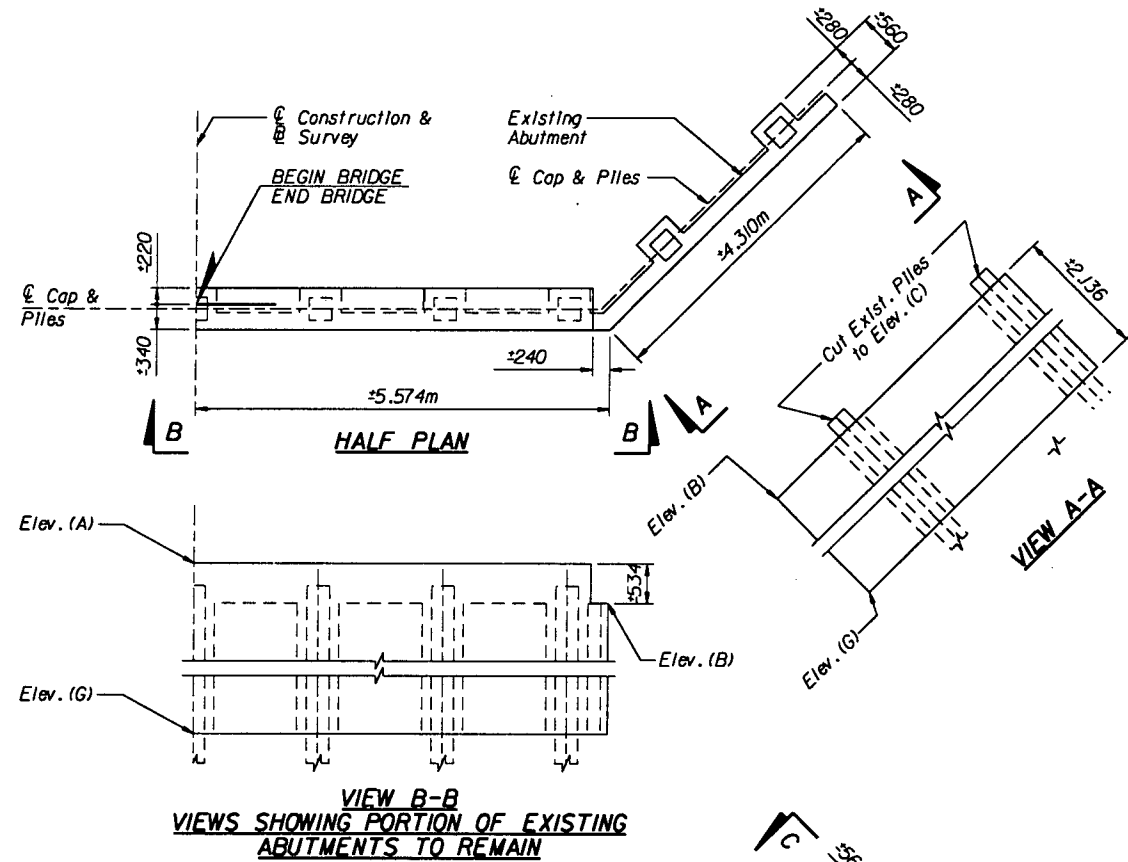


SECTION I-I PLAN

NOTE:
 6-19mm ϕ x 265mm Deep Drilled Holes for Dowels.
 Set Dowels In Approved Epoxy or Capsule Adhesive,
 (Class IV). See Dowel Details (This Sheet). See Notes
 on Sheet B-8.

10 SEP 97 13:21:32 Breiff's Computer c:\projects\717-01\0509\0509\0509.dgn

REVISIONS				Names		Dates		ENGINEER OF RECORD:		FLORIDA DEPARTMENT OF TRANSPORTATION		SHEET TITLE:					
Date	By	Description	Date	By	Description	Drawn by	B. Loeffler	August 1997	CORZO CASTELLA CARBALLO THOMPSON SALZMAN, P.A. ENGINEERS ARCHITECTS PLANNERS 901 PONCE DE LEON BLVD., SUITE 900 CORAL GABLES, FLORIDA 33134 MIAMI (305)-445-2988 FLORIDA (800)-448-8227 THOMPSON SALZMAN FL REGISTRATIONS: EB8805022 AAC802142	STRUCTURES DESIGN OFFICE		ABUTMENT MODIFICATION DETAILS (1 OF 2)					
					Checked by	S. Beltre	August 1997	ROAD NO.						COUNTY	PROJECT NO.	PROJECT NAME:	Drawing No.
					Designed by	S. Beltre	August 1997	SR-29						GLADES	05090-3511	S.R. 29 BRIDGE OVER NORTH OKALOACOCHEE, BRIDGE NO. 050941	Index No.
					Checked by	R.T. Carballo	August 1997										
					Approved by	R.T. Carballo, P.E.											



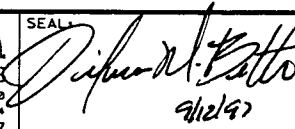
ESTIMATED QUANTITIES		
ITEM	UNIT	QUANTITY
Class IV Concrete (Substructure)	m ³	3.0
Reinforcing Steel (Substructure)	kg	338
455 mm Sq. Prestressed Concrete Piles	m	**

* Estimated Quantities are for one End Bent only.
 ** See Summary of Bridge Pay Items

NOTES:

- For Table of Elevations, See Sheet B-5.
- For Sections C, D, and G, See Abutment Modifications Detail Sheet B-6.

10 SEP 97 15:22:25 Breff's Computer c:\p\proj\1577-0\Noto\0509-1\aknab\2.dgn

REVISIONS <table border="1"> <thead> <tr> <th>Date</th> <th>By</th> <th>Description</th> <th>Date</th> <th>By</th> <th>Description</th> </tr> </thead> <tbody> <tr> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> </tr> </tbody> </table>				Date	By	Description	Date	By	Description							<table border="1"> <tr> <td>Drawn by</td> <td>B. Loeffler</td> <td>August 1997</td> </tr> <tr> <td>Checked by</td> <td>S. Beltre</td> <td>August 1997</td> </tr> <tr> <td>Designed by</td> <td>S. Beltre</td> <td>August 1997</td> </tr> <tr> <td>Checked by</td> <td>R.T. Carballo</td> <td>August 1997</td> </tr> <tr> <td>Approved by</td> <td>R.T. Carballo, P.E.</td> <td></td> </tr> </table>		Drawn by	B. Loeffler	August 1997	Checked by	S. Beltre	August 1997	Designed by	S. Beltre	August 1997	Checked by	R.T. Carballo	August 1997	Approved by	R.T. Carballo, P.E.		ENGINEER OF RECORD: CORZO CASTELLA CARBALLO THOMPSON SALMAN, P.A. ENGINEERS-ARCHITECTS-PLANNERS 901 PONCE DE LEON BLVD., SUITE 900 CORAL GABLES, FLORIDA 33134 MIAMI (305)-445-2988 FLORIDA (800)-448-8227 SALMAN FL REGISTRATIONS: EB8805622 AAC82142		FLORIDA DEPARTMENT OF TRANSPORTATION STRUCTURES DESIGN OFFICE 		ABUTMENT MODIFICATION DETAILS (2 OF 2)		Drawing No. _____ Index No. _____	
Date	By	Description	Date	By	Description																																			
Drawn by	B. Loeffler	August 1997																																						
Checked by	S. Beltre	August 1997																																						
Designed by	S. Beltre	August 1997																																						
Checked by	R.T. Carballo	August 1997																																						
Approved by	R.T. Carballo, P.E.																																							
ROAD NO. SR-29 COUNTY GLADES PROJECT NO. 05090-3511				PROJECT NAME: S.R. 29 BRIDGE OVER NORTH OKALOACOOCHEE, BRIDGE NO. 050941																																				

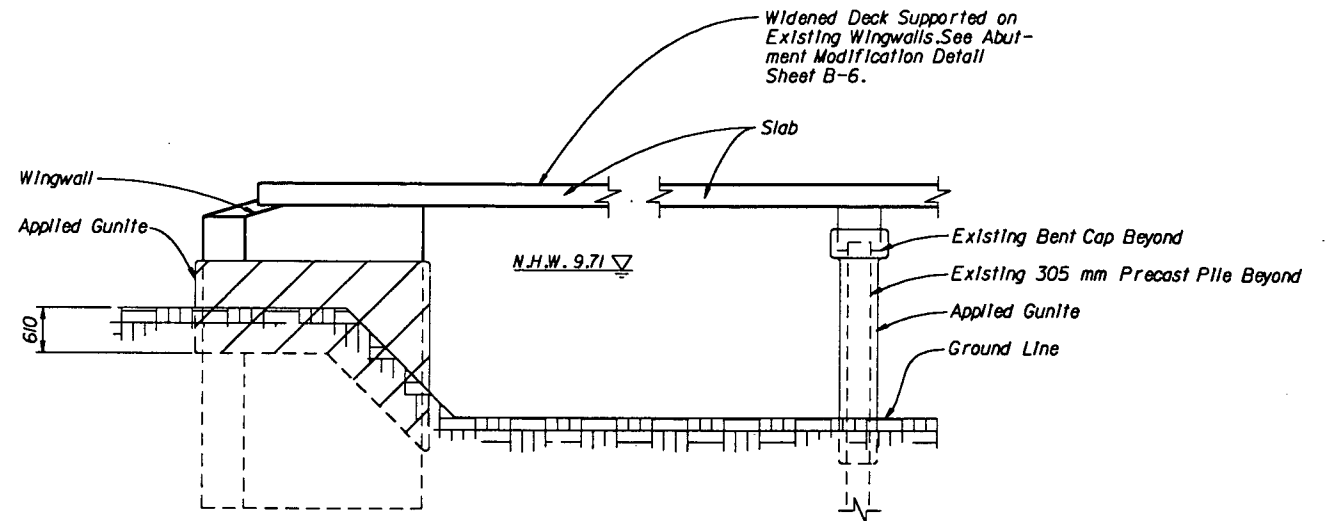
GENERAL NOTES:

CLEANING AREAS OF MATRIX LOSS: All areas upon which gunite is to be applied shall be thoroughly cleaned in accordance with Technical Special Provision Section 402. If necessary, the water level shall be lowered, by dewatering, to a height sufficient to allow for these repairs. Dewatering operations shall not include the placement of fill in the canal bed. If reinforcing steel is exposed, it will not be necessary to remove concrete from behind the steel, since the gunite will increase the original clearance and no corrosion has been noted.

COVERING SPALLED AREAS: After cleaning the surface areas over which gunite is to be applied, the welded wire fabric shall be furred 13 mm from sound concrete or exposed reinforcing steel.

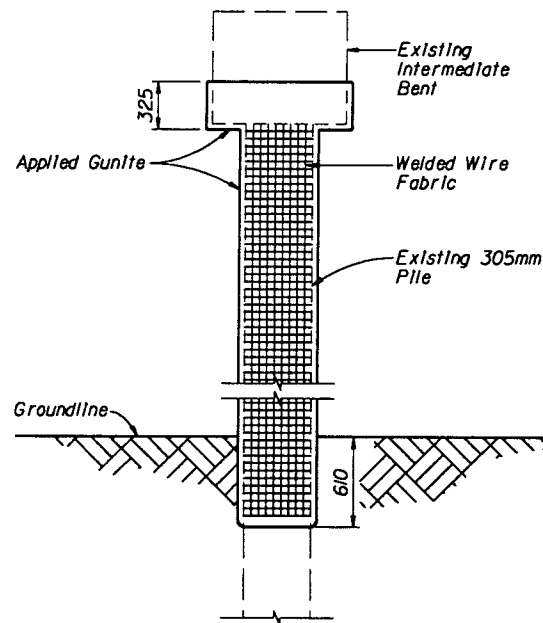
COST: Compensation shall be in accordance with Special Provision Section 401.

NOTE: Additional areas of unsound concrete may be found in the course of this contract at the discretion of the Engineer, these areas shall be repaired as outlined in these plans. All work shall be performed in accordance with Technical Special Provision Section 402 Gunite.

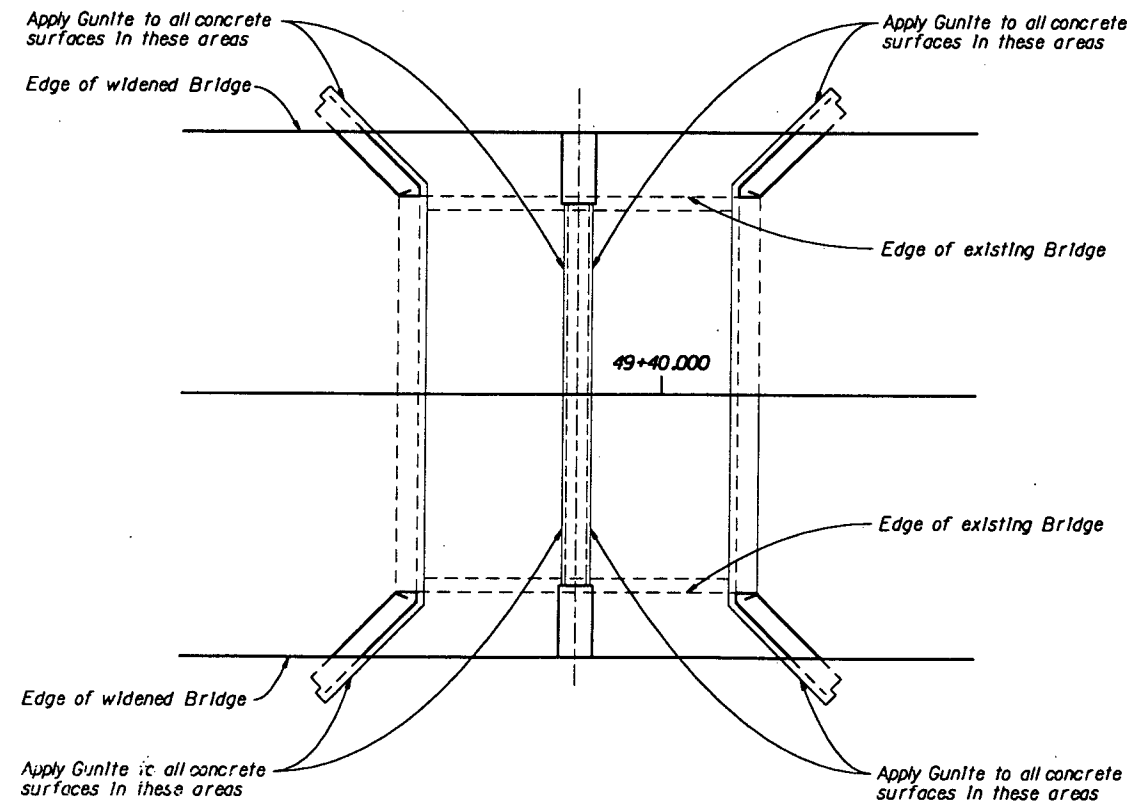


DETAIL OF GUNITE APPLICATION (TYPICAL)
 Note: Widened Intermediate Bent Cap & Proposed 455 mm Pile not shown for clarity.

NOTE: Welded Wire Fabric shall be applied to the surface of the Wingwalls but has not been shown for clarity.



GUNITE REPAIR DETAIL
 (For Existing Piles)



PLAN VIEW

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 Brett's Computer
 13:26:17
 10 SEP 97

REVISIONS

Date	By	Description	Date	By	Description

Drawn by	Names	Dates
	M. Llaneras	August 1997
	S. Beltré	August 1997
	S. Beltré	August 1997
	R. Carballo	August 1997
	R.T. Carballo, P.E.	

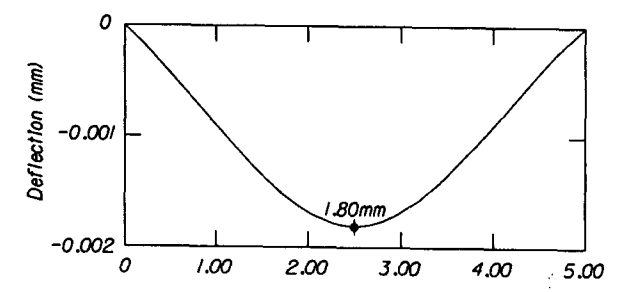
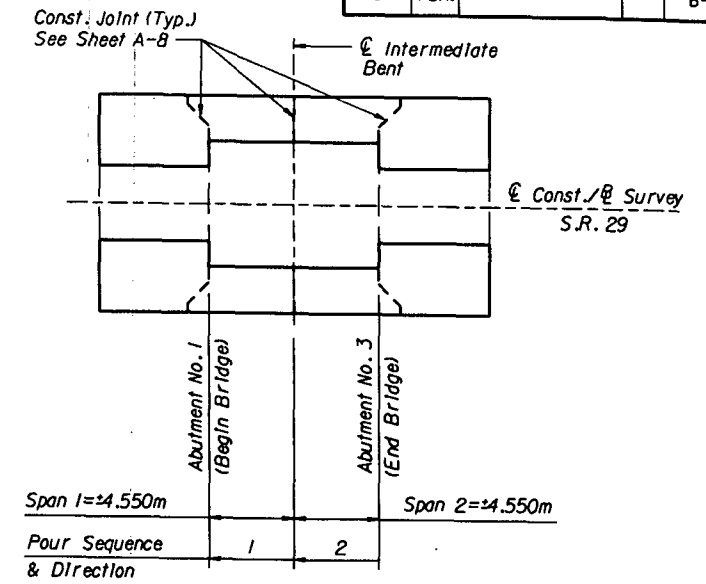
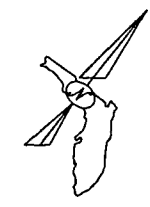
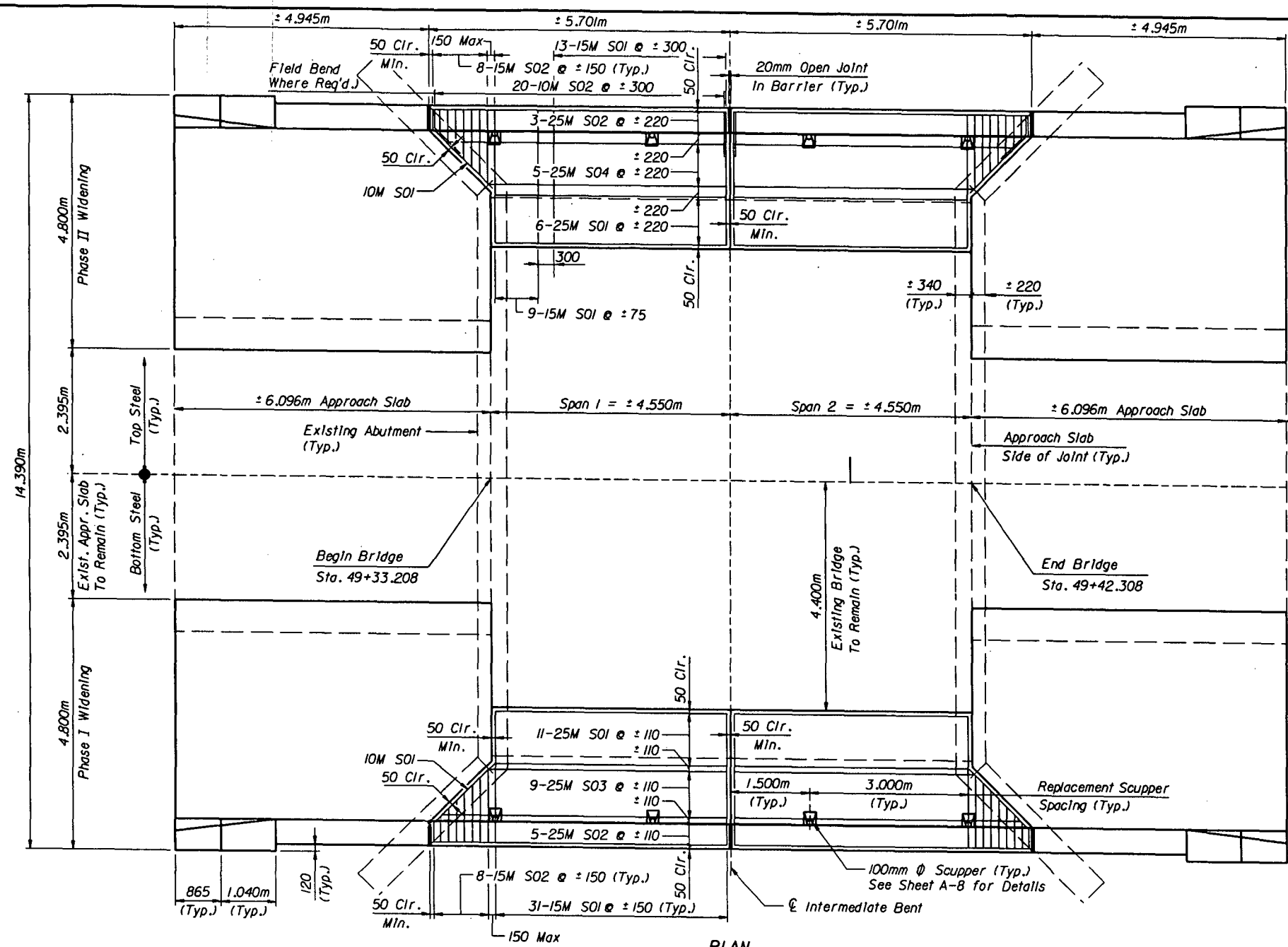
ENGINEER OF RECORD:
 CORZO CASTELLA CARBALLO THOMPSON SALMAN, P.A.
 ENGINEERS ARCHITECTS PLANNERS
 381 PONCE DE LEON BLVD., SUITE 900
 CORAL GABLES, FLORIDA 33134
 MIAMI (305) 445-2588 FLORIDA (888) 448-8227
 THOMPSON SALMAN FL REGISTRATIONS: EB0885622 AAC82142

SEAL
R. Carballo
 9/2/97

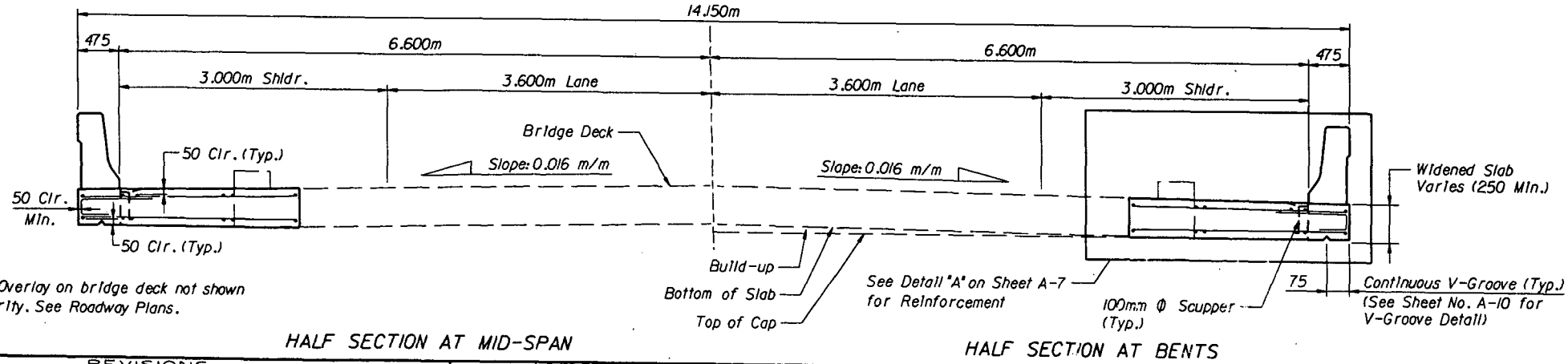
FLORIDA DEPARTMENT OF TRANSPORTATION
STRUCTURES DESIGN OFFICE
 ROAD NO. SR-29 COUNTY GLADES PROJECT NO. 05090-3511

SHEET TITLE: **REPAIR DETAILS**
 PROJECT NAME: **S.R. 29 BRIDGE OVER NORTH OKALOACOCHEE, BRIDGE NO. 050941**
 Drawing No. Index No.

FED. ROAD DIST. NO.	STATE	PROJECT NO.	FISCAL YEAR	SHEET NO.
3	FLA.			B-10



- NOTES:
- Set bars in slab for Barrier as detailed on Barrier Sheet.
 - Pouring Sequence: After pouring the first unit, succeeding pours shall begin at the end away from and proceed toward the previously placed unit. (The first unit may be at either end of bridge)
 - No unit shall be placed adjacent to a previously placed unit that is not a minimum of 72 hours old.
 - The contractor shall camber the forms to compensate for the combined effect of the deflection of the forms and the dead load deflection of the slab.
 - The contractor may submit for approval a revised casting sequence. The submittal shall include structural analysis by the specialty Engineer reflecting the new casting sequence and its effect on the Camber Diagram. The revision shall be in conformance with Chapter 19 of the Structures Design Guidelines.



* ESTIMATED QUANTITIES		
ITEM	UNIT	QUANTITY
Class IV Concrete - Superstructure	m ³	14.80
Reinforcing Steel (Superstructure)	kg	3983
Concrete Traffic Railing Barrier	m	22.8

* Quantities are for the complete Superstructure.

16 OCT 97 11:02:01 Brett's Computer C:\Projects\717-01\K\050941\SP2SPAN2.DGN

NOTE: Asphalt Overlay on bridge deck not shown for clarity. See Roadway Plans.

REVISIONS	
Date	By

ENGINEER OF RECORD:
CORZO CASTELLA CARBALLO THOMPSON SALMAN, P.A.
 ENGINEERS ARCHITECTS PLANNERS
 901 PONCE DE LEON BLVD., SUITE 900
 CORAL GABLES, FLORIDA 33134
 MIAMI (305)-445-2900 FLORIDA (800)-448-0227
 THOMPSON SALMAN FL REGISTRATIONS: EB0005022 AAC002142

SEAL:
[Signature]
 10/10/97

FLORIDA DEPARTMENT OF TRANSPORTATION
 STRUCTURES DESIGN OFFICE
 ROAD NO. SR-29 COUNTY GLADES PROJECT NO. 05090-3511


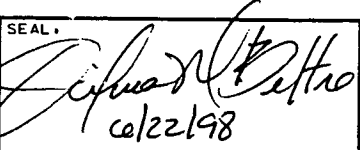

SHEET TITLE: **2-SPAN SUPERSTRUCTURE**
 PROJECT NAME: **S.R. 29 BRIDGE OVER NORTH OKALOACOOHEE, BRIDGE NO. 050941**
 Drawing No. Index No.

M A R K		METERS		NO		TYP		STY		METERS											N		Ø	
SIZE	DES	LENGTH	BARS	BAR	A	G	B	C	D	E	F	H	J	K										
		LOCATION ABUTMENTS NOS. 1 AND 3 (PER SIDE)											NO. REQUIRED = 4											
15M	E01	0.820	2	12			0.500	0.320											45					
15M	E02	0.880	1	12			0.500	0.380											45					
15M	E03	0.945	2	12			0.500	0.445											45					
15M	E04	1.670	14	4	4	4	0.335	0.360																
15M	E05	0.960	7	11			0.360	0.300	0.300															
15M	E06	1.795	1	1			1.795																	
15M	E07	1.495	1	1			1.495																	
15M	E08	1.050	1	11			0.450	0.300	0.300															
15M	E09	1.030	2	11			0.360	0.335	0.335															
20M	E01	0.460	6	1			0.460																	
25M	E01	3.970	4	1			3.970																	
25M	E02	3.598	2	40			0.135	0.345	1.545	0.340	0.795	3.970							2					
25M	E03	0.926	2	28			0.340	0.395	0.135	0.135														
		LOCATION INTERMEDIATE BENT NO. 2											NO. REQUIRED = 1											
15M	B01	2.870	12	4	4	4	0.575	0.720																
15M	B02	2.030	2	5			0.575	0.720	0.080	0.080														
15M	B03	0.760	12	1			0.760																	
25M	B01	1.380	22	1			1.380																	
		LOCATION SUPERSTRUCTURE											NO. REQUIRED = 1											
10M	S01	1.625	8	1			1.625																	
10M	S02	1.080	80	11			0.130	0.200	0.750															
15M	S01	2.575	212	1			2.575																	
		BARS 15M S02 VARY IN 8 SETS OF 8 BARS EACH IN INCREMENTS OF 0.150 M																						
15M	S02	VARY	64	1			1.480																	
							0.955																	
25M	S01	4.380	68	1			4.380																	
25M	S02	5.530	32	1			5.530																	
		BARS 25M S03 VARY IN 9 SETS OF 4 BARS EACH IN INCREMENTS OF 0.110M																						
25M	S03	VARY	36	1			5.395																	
							4.955																	
		BARS 25M S04 VARY IN 5 SETS OF 4 BARS EACH IN INCREMENTS OF 0.220M																						
25M	S04	VARY	20	1			5.395																	
							4.955																	

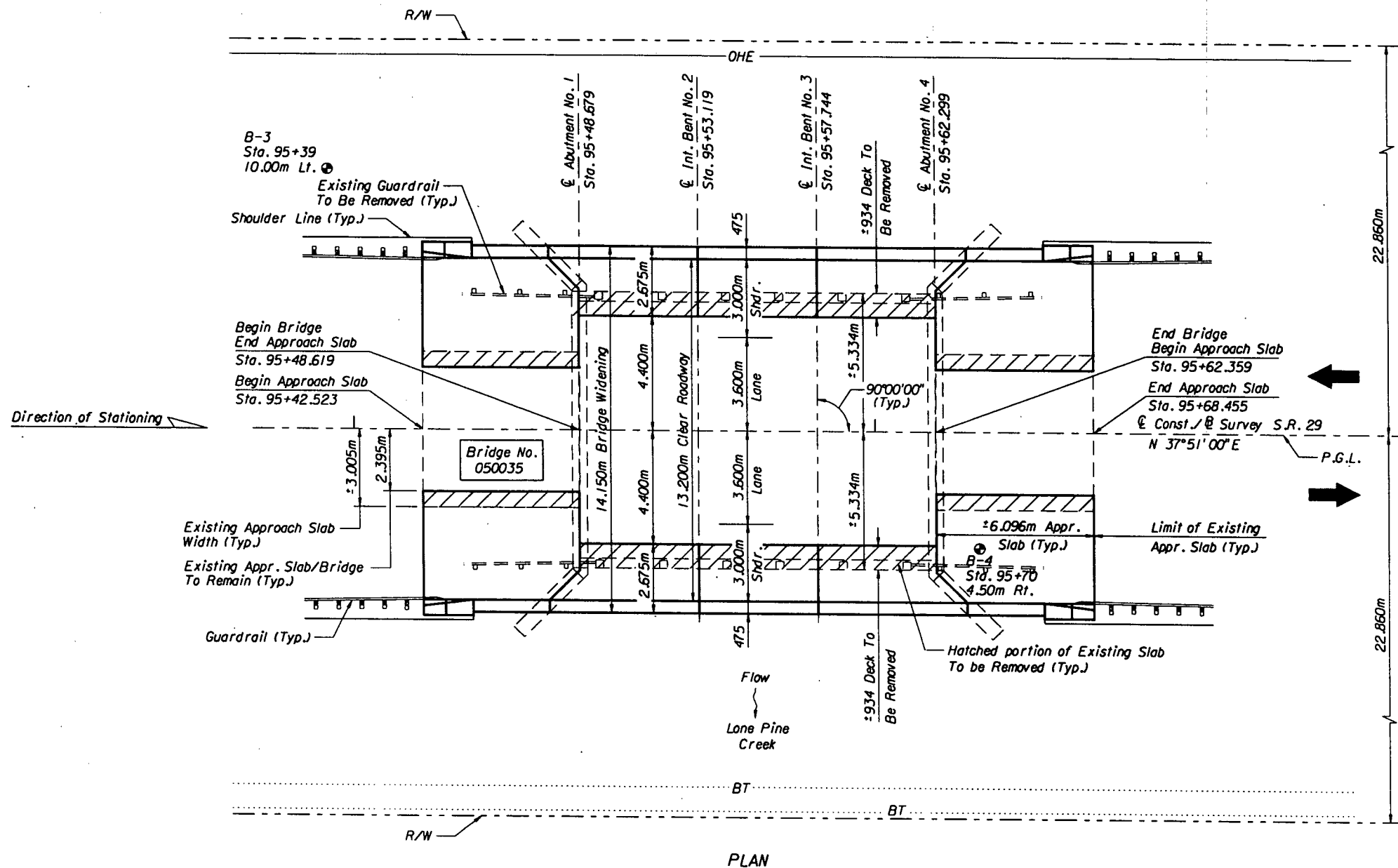
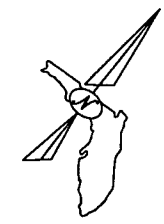
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NOTE:
1. All Reinforcing Steel shown on this sheet shall be ASTM A615M-92, Grade 420.

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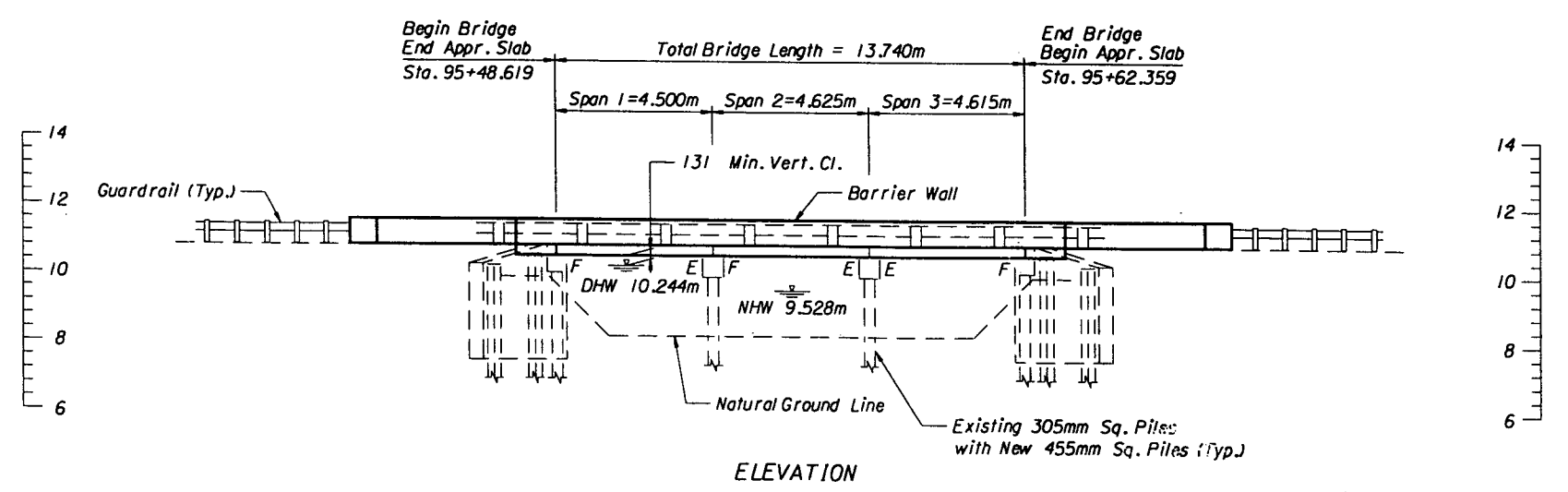
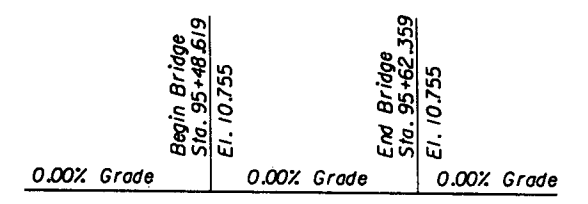
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DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION																																	
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SR-29	GLADES	05090-3511																																				

FED. ROAD DIV. NO.	STATE	PROJECT NO.	FISCAL YEAR	SHEET NO.
3	FLA.			C-1



TRAFFIC DATA

K = 10.4%
 D = 55.6%
 T = 32.6% (24 HR.)
 T = 16.3% (DESIGN HR.)
 1996 AADT = 2800
 1999 EST. ADT = 3000
 2019 EST. ADT = 4800
 DESIGN SPEED 100 km/h



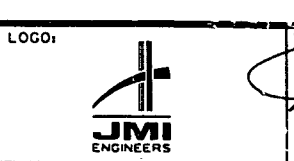
NOTE:
 1. Elevations shown in the Profile Grade Diagram refer to top of deck elevations. The PGL elevations is a maximum of 80 mm above the centerline deck elevation due to the asphalt overlay. Refer to the Roadway Plans for the asphalt overlay.

\$FILES \$DATES

Date	By	Description	Date	By	Description

Names	Dates
Drawn by ISW	8-97
Checked by HSH	8-97
Designed by HSH	8-97
Checked by JR	8-97
Approved by J. Registe, P.E.	

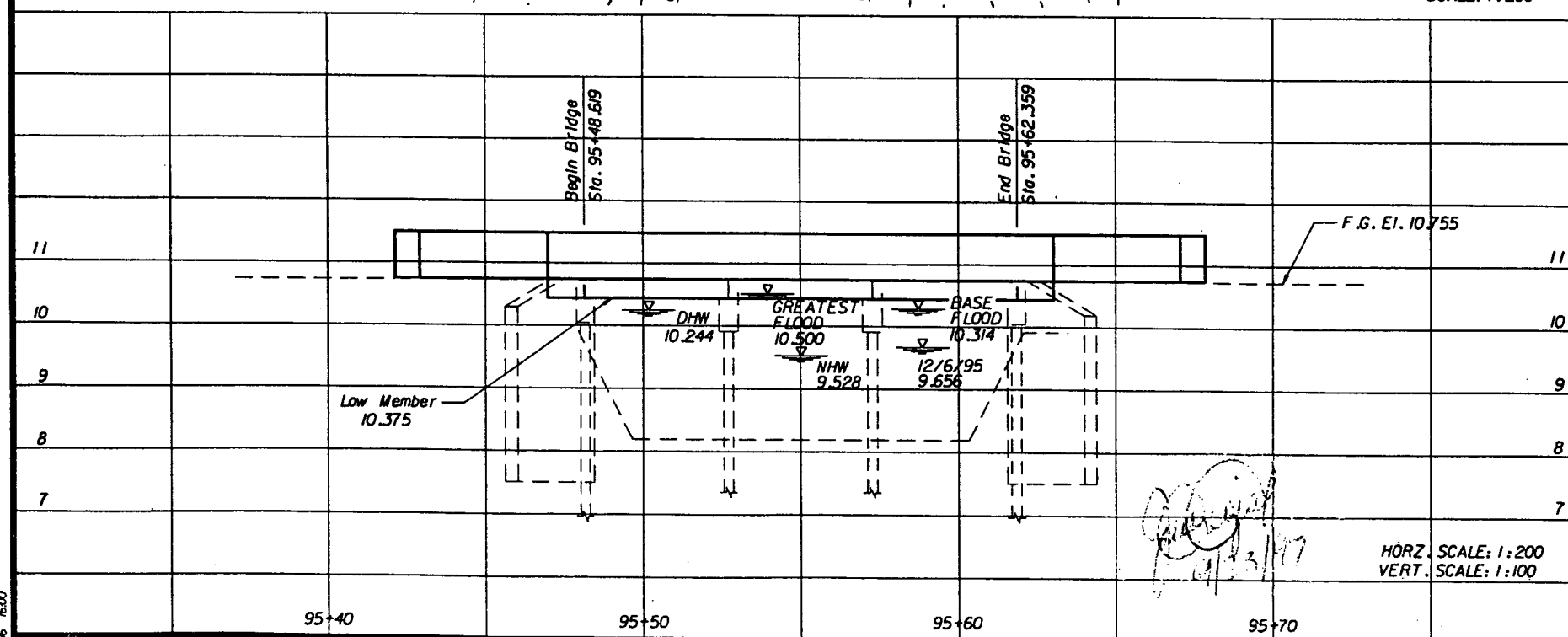
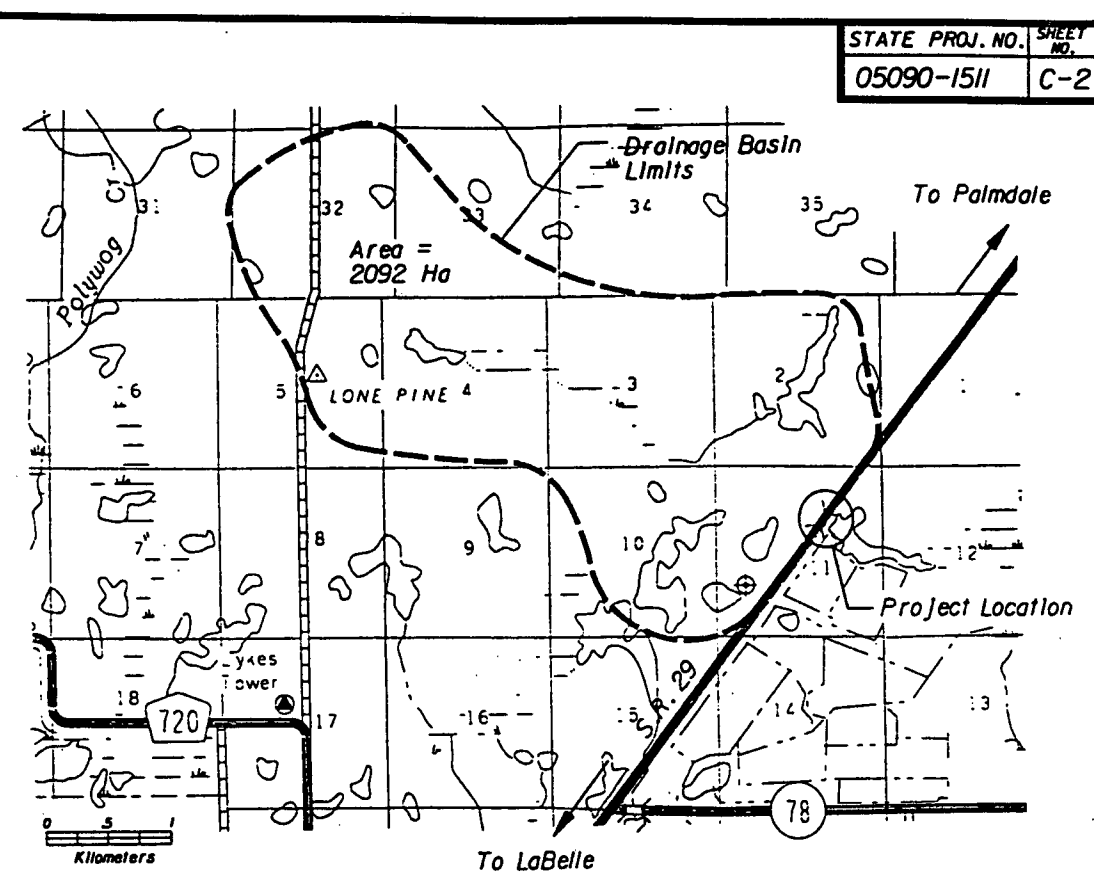
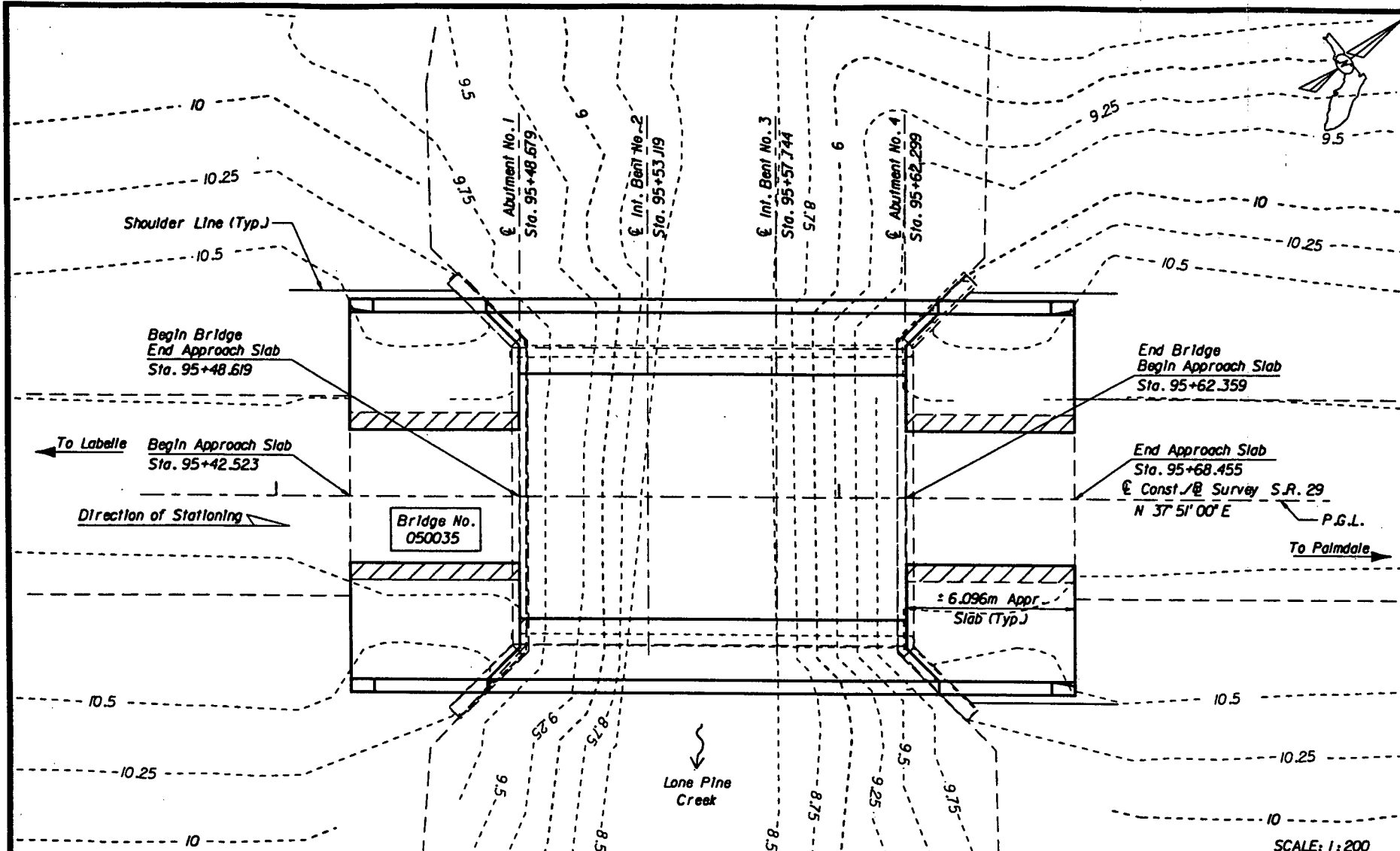
ENGINEER OF RECORD:
JMI ENGINEERS, INC.
 900 Winderley Place, Ste. 148
 Maitland, Florida 32751
 Tel: 407-875-1550 Fax: 407-875-0560



SEAL
 7/14/98

FLORIDA DEPARTMENT OF TRANSPORTATION
STRUCTURES DESIGN OFFICE
 ROAD NO. SR-29 COUNTY GLADES PROJECT NO. 05090-3511

SHEET TITLE: **PLAN AND ELEVATION**
 PROJECT NAME: **S.R. 29 BRIDGE OVER LONE PINE CREEK, BRIDGE NO. 050035**
 W.P.I. No. 1110874



(REFERENCE) FOUNDATION	EXISTING STRUCTURES				ASSUMED CONFIGURATION
	(1)	(2)	(3)	(4)	
OVERALL LENGTH	13.740	N/A	N/A	N/A	13.740
SPAN LENGTH	± 4.572				± 4.572
TYPE CONSTRUCTION	Flat Slab				Flat Slab
AREA OF OPENING @ H.W.	± 21.924				± 21.924
ROADWAY WIDTH	± 10.688				M.150
ELEV. LOW MEMBER	10.375				10.375

HYDRAULIC DESIGN DATA
 NOTE: The hydraulic data is shown for informational purposes only to indicate the flood discharges and water surface elevations which may be anticipated in any given year. This data was generated using highly variable factors determined by a study of the watershed. Many judgments and assumptions are required to establish these factors. The resultant hydraulic data is sensitive to changes, particularly antecedent conditions, urbanization, channelization and land use. Users of this data are cautioned against the assumption of precision which cannot be obtained.

DEFINITIONS:
 Design Flood: The flood utilized to assure a desired level of hydraulic performance.
 Base Flood: The flood having a 1% chance of being exceeded in any year. (100 Year Frequency)
 Overtopping Flood: The flood which causes flow over the highway, over a watershed divide or thru emergency relief structures.
 Greatest Flood: The most severe flood which can be predicted where overtopping is not practicable.

WATER SURFACE ELEVATIONS: N.H.W. (Non-Tidal) 9.528 M.H.W. N/A M.L.W. N/A

FLOOD DATA:	MAX. EVENT OF RECORD	DESIGN FLOOD	BASE FLOOD	OVERTOPPING FLOOD
STAGE ELEV. NGVD (M)	UNKNOWN	10.244	10.314	10.452
DISCHARGE (CM ³ /M)	UNKNOWN	106	1164	1485
AVERAGE VELOCITY (M/S)	UNKNOWN	0.783	0.875	1.070
EXCEEDANCE PROB. (%)	UNKNOWN	2%	1%	0.2%
FREQUENCY (YR.)	UNKNOWN	50	100	500

- HYDRAULIC RECOMMENDATIONS**
- BEGIN BRIDGE STATION 95+48.619 END BRIDGE STATION 95+62.359 SKEW ANGLE 0°
 - CHANNEL SECTION @ STATION 95+55.499 BOTTOM WIDTH 13.716 ELEV. 8.230 SIDE SLOPE 0
 - LIMITS OF CHANNEL EXCAVATION: RT. N/A LT. N/A
 - CLEARANCE: NAVIGATION: HORIZ. N/A VERT. N/A ABOVE EL. N/A DRIFT: HORIZ. 4.166 VERT. 0.131 ABOVE EL. 10.244
 - SCOUR PREDICTION: 100 YEAR DESIGN SCOUR EL. 4.298 DEPTH = 6.58
500 YEAR SCOUR EL. 3.501 DEPTH = 8.36
 - SLOPE PROTECTION: NONE
 - DECK DRAINAGE: RUNOFF WILL SHEET FLOW OFF BRIDGE INTO EXISTING ROADWAY DRAINAGE DITCHES.
 - OTHER: _____
- REMARKS: _____

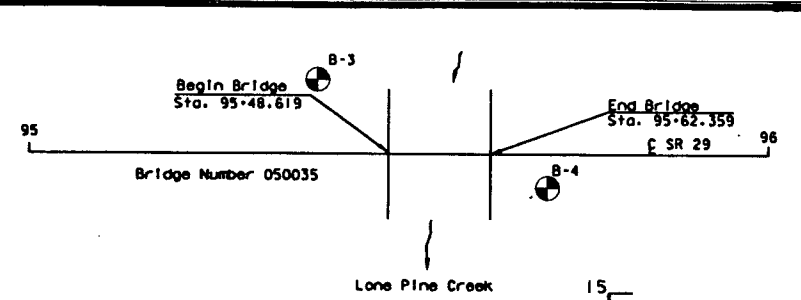
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JMI ENGINEERS, INC.
 1424 Piedmont Drive East
 Tallahassee, Florida 32312
 Tel: 904-385-7450 Fax: 904-385-3545

FLORIDA DEPARTMENT OF TRANSPORTATION

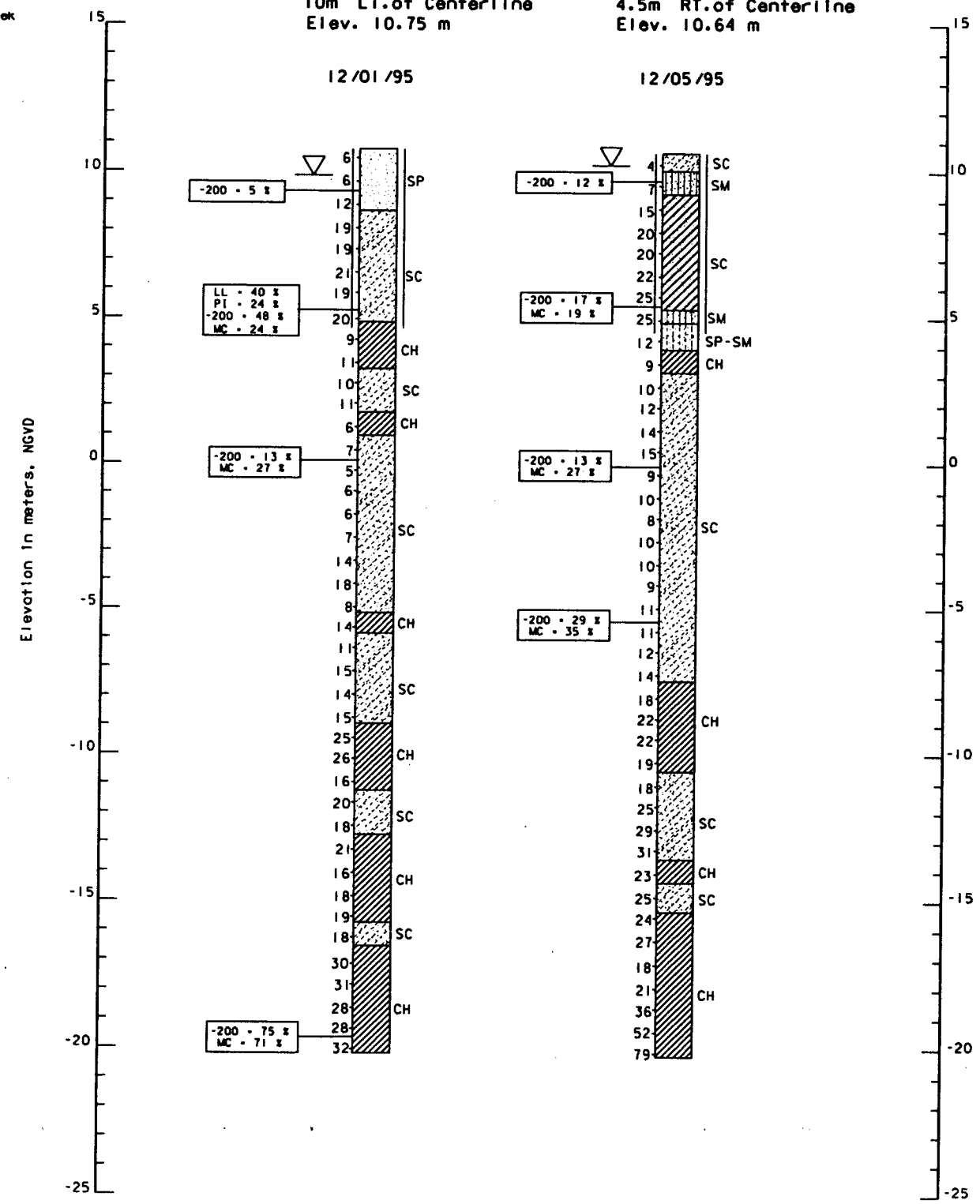
BRIDGE HYDRAULIC RECOMMENDATIONS
 S.R.29 BRIDGE NO. 050035

FILE: e:\05090\1511\050035.dwg DATE: 16-Oct-96 16:00



BORING NO. B-3
Sta. 95+39
10m LT. of Centerline
Elev. 10.75 m

BORING NO. B-4
Sta. 95+70
4.5m RT. of Centerline
Elev. 10.64 m



LEGEND :

- SM. Silty sands, sand-silt mixtures.
- SP. Poorly graded sands, sand-silt mixtures.
- SC. Clayey sands, sand-clay mixtures.
- SP-SM. Poorly graded sands and gravelly sands, to silty sands, sand-silt mixtures.
- CH. Inorganic clays of High plasticity, fat clays.

NOTES :

Numbers to the left of borings indicate SPT values for 300 mm penetration. (Unless otherwise noted.)
 50/90 - Numbers of blows for 90 mm of penetration.
 - Water Table
 - Casing used

Rig Type - Falling 1500
 Hammer Type - 63.5 kn Manual

WATER :

Resistivity : >10,000 ohms-cm. Chlorides : 60 ppm, Sulfates : 2, pH : 5.0.

ENVIRONMENTAL CLASSIFICATION

Substructure : Concrete : Moderately Aggressive
 Steel : Extremely Aggressive (Due to pH)
 Superstructure : Slightly Aggressive

Granular Materials- SPT (Blows/300mm)

Relative Density	SPT (Blows/300mm)
Very Loose	Less than 4
Loose	4 - 10
Medium or Compact	10 - 30
Dense	30 - 50
Very Dense	Greater than 50

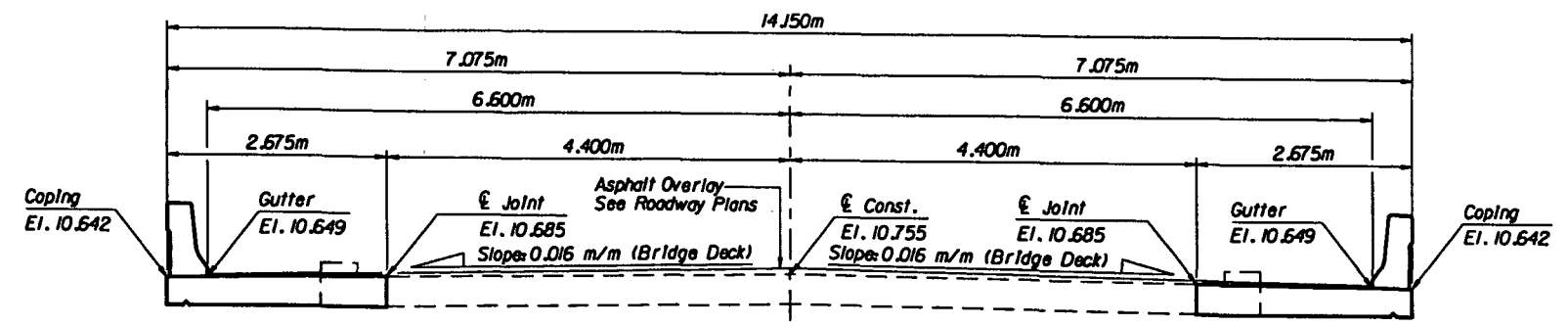
Slits and Clays- SPT (Blows/300mm)

Consistency	SPT (Blows/300mm)
Very Soft	Less than 2
Soft	2 - 4
Firm	4 - 8
Stiff	8 - 15
Very Stiff	15 - 30
Hard	Greater than 30

F.L. JUN 20 1997 10:34 AM 1/25/97 10:34 AM 1/25/97 10:34 AM

REVISIONS <table border="1"> <tr><th>Date</th><th>By</th><th>Description</th><th>Date</th><th>By</th><th>Description</th></tr> <tr><td>1/18/96</td><td>TNP</td><td>Hammer Type revised</td><td>02/10/97</td><td>MEH</td><td>N value's corrected</td></tr> <tr><td></td><td></td><td></td><td>06/20/97</td><td>TNP</td><td>Begin & End Bridge stations, corrected</td></tr> <tr><td></td><td></td><td></td><td></td><td></td><td>Sheet Numbers, added</td></tr> </table>		Date	By	Description	Date	By	Description	1/18/96	TNP	Hammer Type revised	02/10/97	MEH	N value's corrected				06/20/97	TNP	Begin & End Bridge stations, corrected						Sheet Numbers, added	Drawn by: DM, 6/97 Checked by: MEH, 6/97 Designed by: Checked by: Approved by: T.N. Puckett	ENGINEER OF RECORD: MATERIALS OFFICE DISTRICT 1 801 N. Broadway Bartow, Florida 33830-1249	LOGO: SEAL: <i>Thomas Puckett 6/20/97</i>	FLORIDA DEPARTMENT OF TRANSPORTATION MATERIALS OFFICE ROAD NO. 29 COUNTY Glades PROJECT NO. 05090-3511	Report of Core Borings SR 29/over Lone Pine Creek Drawing No. 1 Index No.
Date	By	Description	Date	By	Description																									
1/18/96	TNP	Hammer Type revised	02/10/97	MEH	N value's corrected																									
			06/20/97	TNP	Begin & End Bridge stations, corrected																									
					Sheet Numbers, added																									

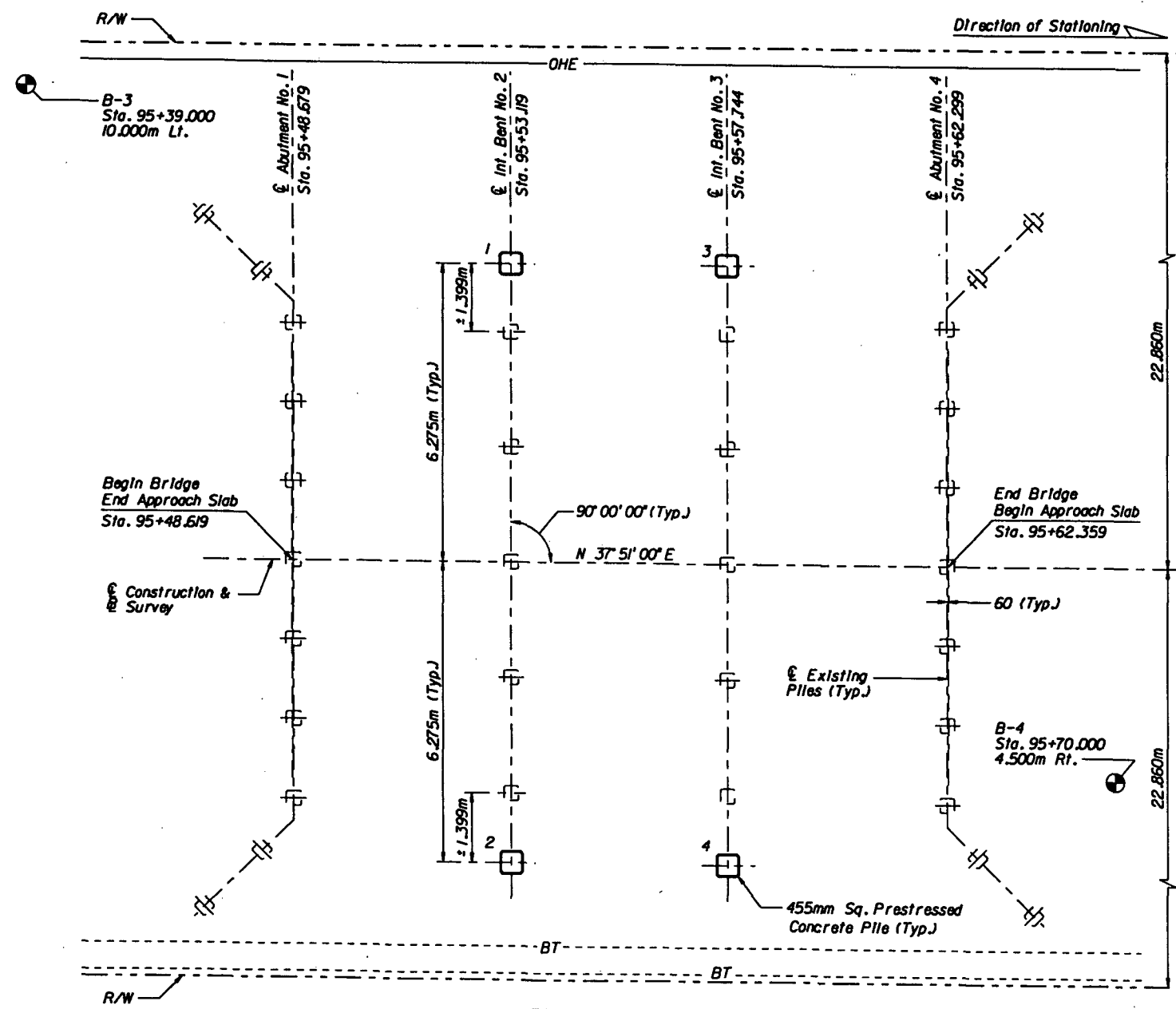
FILE NO.	STATE	PROJECT NO.	SCALE	SHEET NO.
3	FLA.			C-4



SECTION THRU SUPERSTRUCTURE SHOWING FINISH DECK ELEVATIONS

Bent	Pile Size (mm)	Design Load (kN)	Min. Tip Elev. (m, NGVD)	Scour Elev. (m, NGVD)	Total Scour Resistance (kN)	Total Down Drag (kN)	Reqd. Perform to Elev. (m)	Reqd. Jet to Elev. (m)	Net Scour Resistance (kN)	Test Pile Length (m)
2	455	280	-2.0	+3.9	500	N.A.	N.A.	N.A.	500	N.A.
3	455	280	-2.0	+3.9	500	N.A.	N.A.	N.A.	500	N.A.

RDR = (Design Load x FS) + Net Scour Resistance + Total Downdrag where FS is the appropriate safety factor in accordance with the Standard Specifications A455-3J2.2



FOUNDATION LAYOUT

NOTES:

- * Total side resistance from ground line to the scour elevation.
- ** Net side friction resistance from the required preformed or jetting elevation to the scour elevation.
- RDR is the Required Driving Resistance. All piles shall be driven to the design load times the appropriate factor of safety in accordance with Section A455-3J2.2 of the Standard Specifications plus the total downdrag and net scour resistance.
- Pile driving criteria will be established using the Wave Equation Method by the District Geotechnical Office.
- If jetting or preforming elevations differ from those on the table, the engineer shall be responsible for determination of the required driving resistance.
- Scour has been considered in the design with scour elevations shown in the table.
- The minimum tip elevation shown is required for lateral stability. Under no circumstance shall the pile be installed above the minimum tip elevation shown in the table.
- Recommended Production Pile Lengths are 20.000m.

LEGEND:

- Denotes 455mm Sq. Prestressed Concrete Piles
- [] Denotes 305mm Sq. Concrete Existing Piles

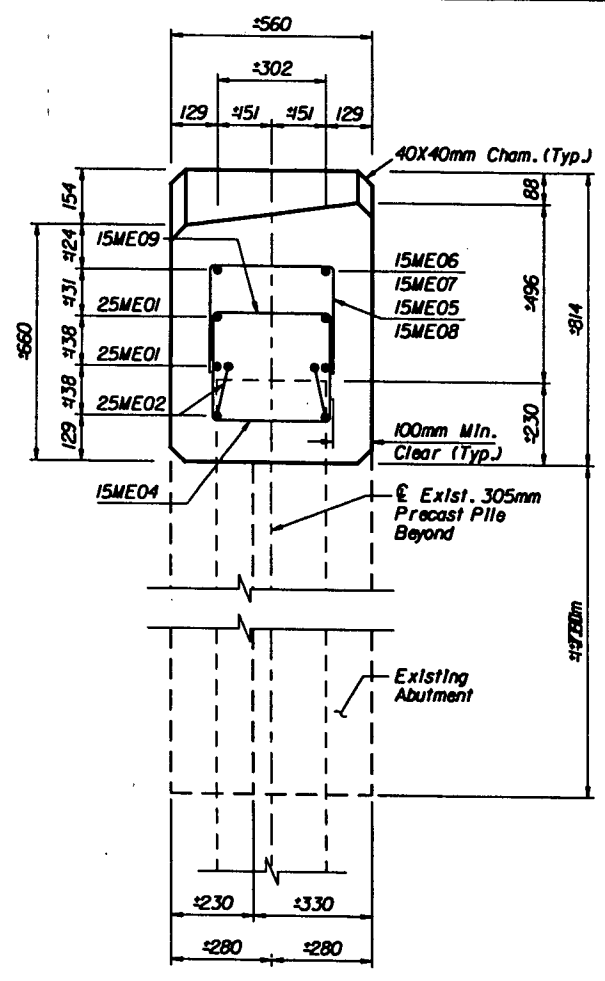
GENERAL NOTES:

- All New Piles are 455mm Sq. Prestressed Concrete Piles.
- All New Piles are Plumb.
- For the Pile Cutoff Elevations, see Substructure sheets.
- All existing piles are to remain.

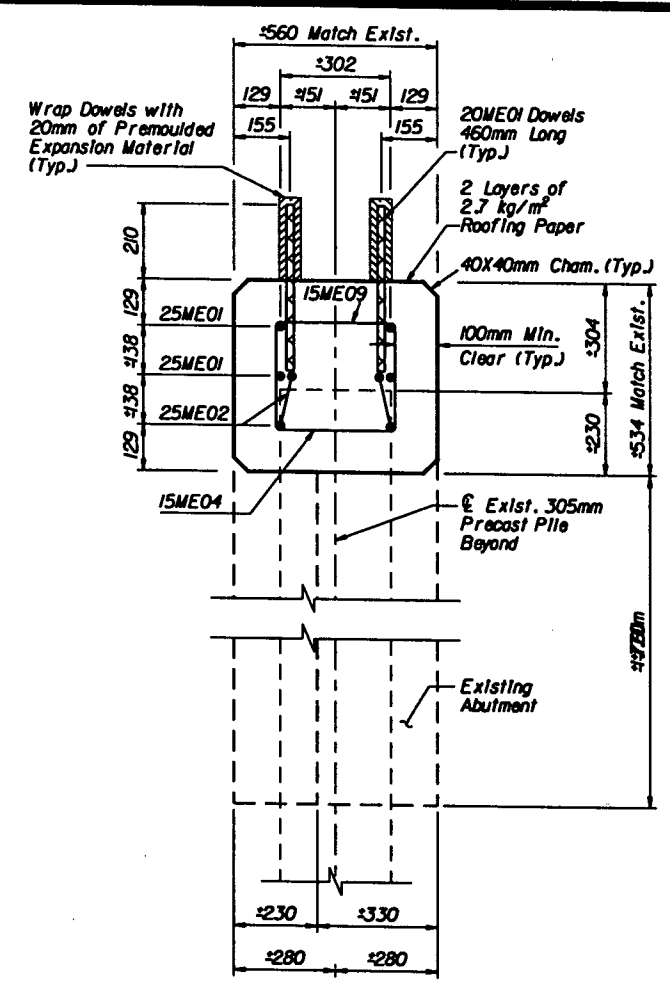
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Date	By	Description	Date	By	Description															
ROAD NO. SR-29 COUNTY GLADES PROJECT NO. 05090-3511		PROJECT NAME: S.R. 29 BRIDGE OVER LONE PINE CREEK, BRIDGE NO. 050035	Index No.																	

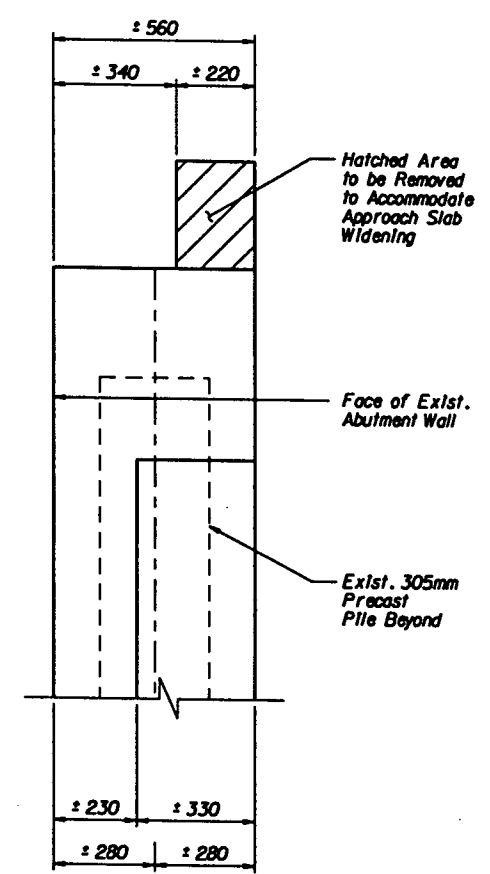
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3	FLA.			C-6



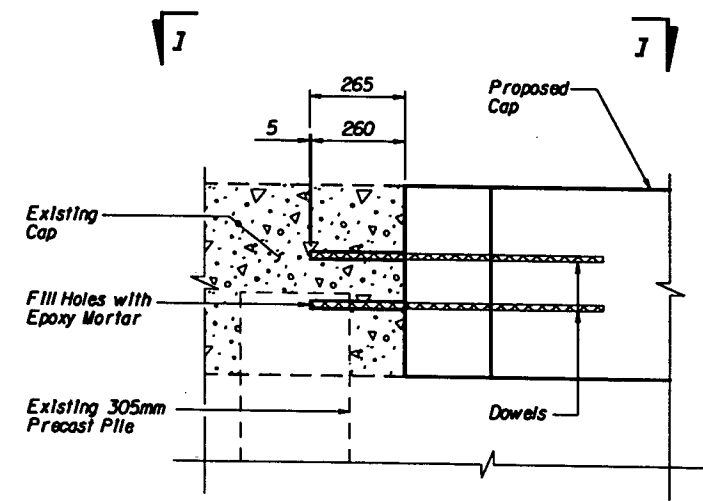
SECTION C-C



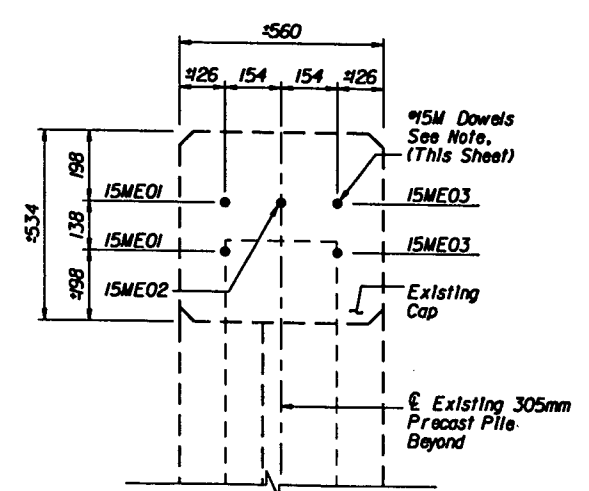
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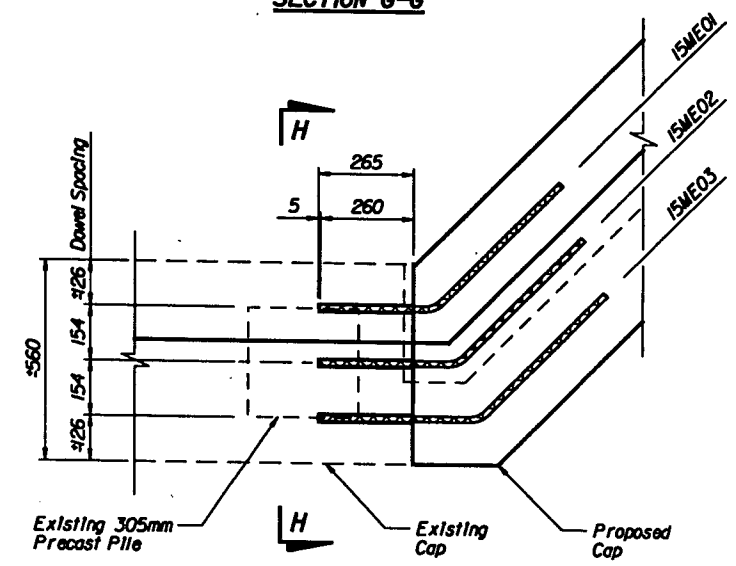
SECTION G-G



DOWEL DETAIL ELEVATION



SECTION H-H



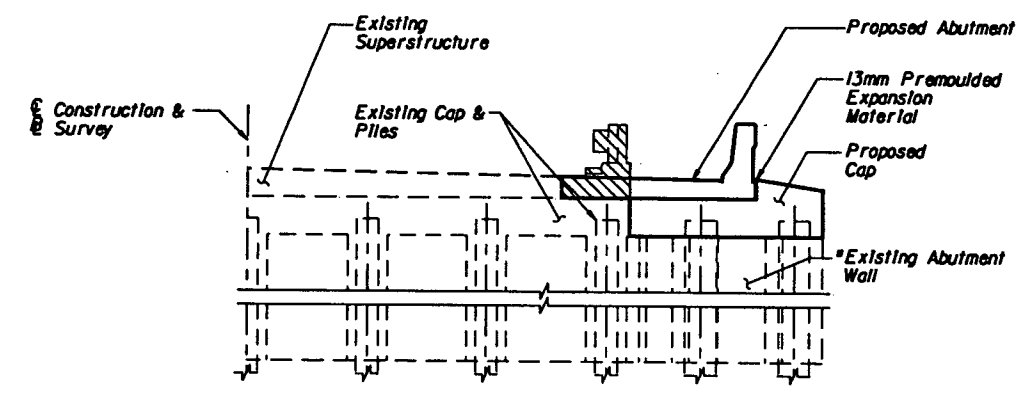
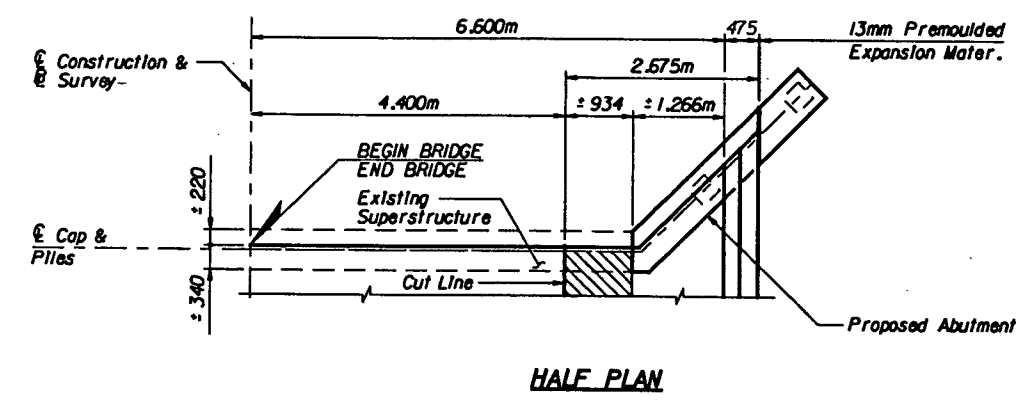
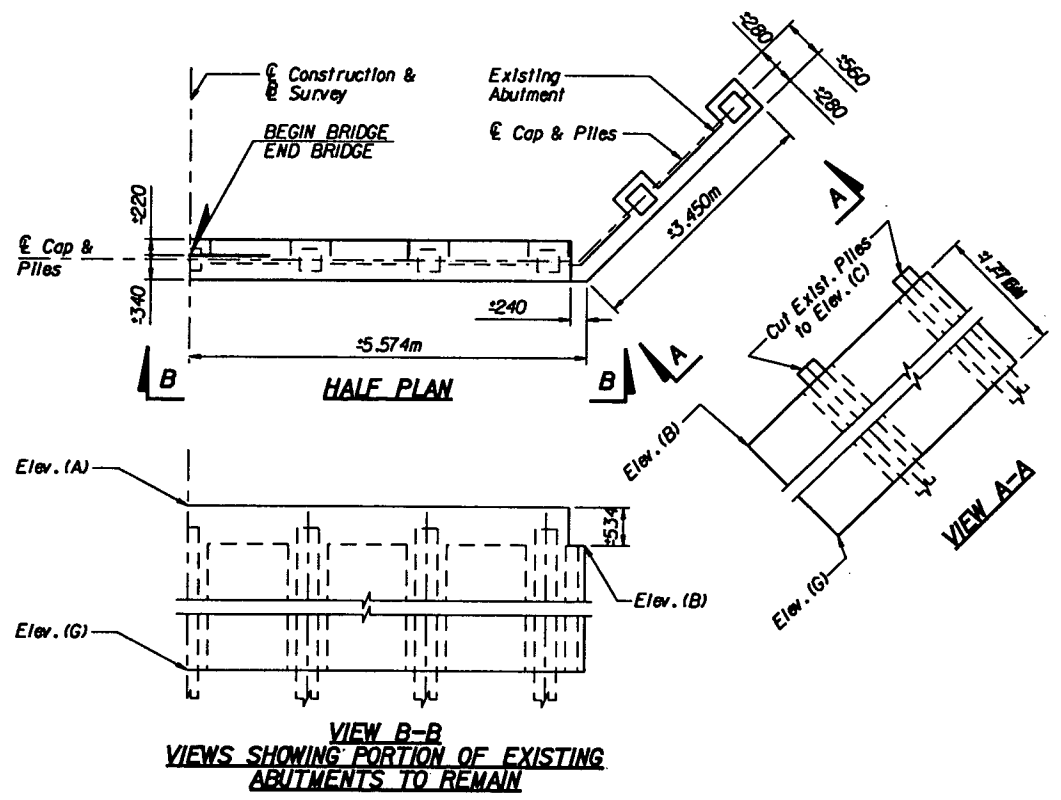
SECTION I-I PLAN

Notes:
 6-19mm ϕ x 265mm Deep Drilled Holes for Dowels.
 Set Dowels in Approved Epoxy or Capsule Adhesive,
 (Class IX). See Dowel Details (This Sheet). See Notes
 on Sheet C-8.

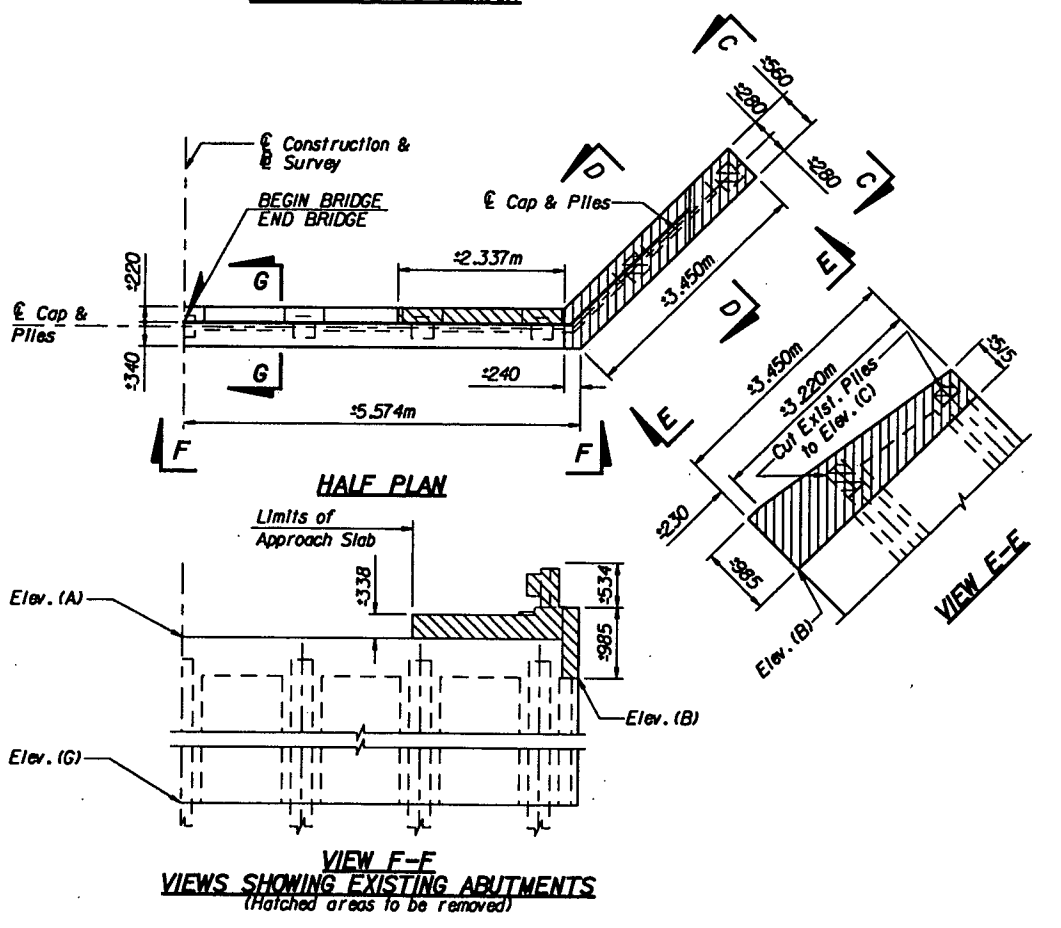
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Date	By	Description	Date	By	Description	JMI ENGINEERS, INC.		6/24/98		STRUCTURES DESIGN OFFICE		ABUTMENT MODIFICATION DETAILS (1 OF 2)	
						900 Winderley Place, Ste. 148 Maitland, Florida 32751 Tel: 407-875-1550 Fax: 407-875-0560				ROAD NO. COUNTY PROJECT NO.		PROJECT NAME:	
										SR-29 GLADES 05090-3511		S.R. 29 BRIDGE OVER LONE PINE CREEK, BRIDGE NO. 050035	
										Drawing No.		Index No.	

ROAD DIST. NO.	STATE	PROJECT NO.	FISCAL YEAR	SHEET NO.
3	FLA.			C-7



HALF ELEVATION VIEW SHOWING COMPLETED STRUCTURE
 *Existing Vertical Steel in Abutment Wall shall remain in place. Bars shall be Cleaned and Embedded in Proposed Portion of Cap. Where necessary Existing Bars shall be cut to provide 100mm Min. Clearance.



ESTIMATED QUANTITIES		
ITEM	UNIT	QUANTITY
Class IV Concrete (Substructure)	m ³	2.3
Reinforcing Steel (Substructure)	kg	246
455 mm Sq. Prestressed Concrete Piles	m	**

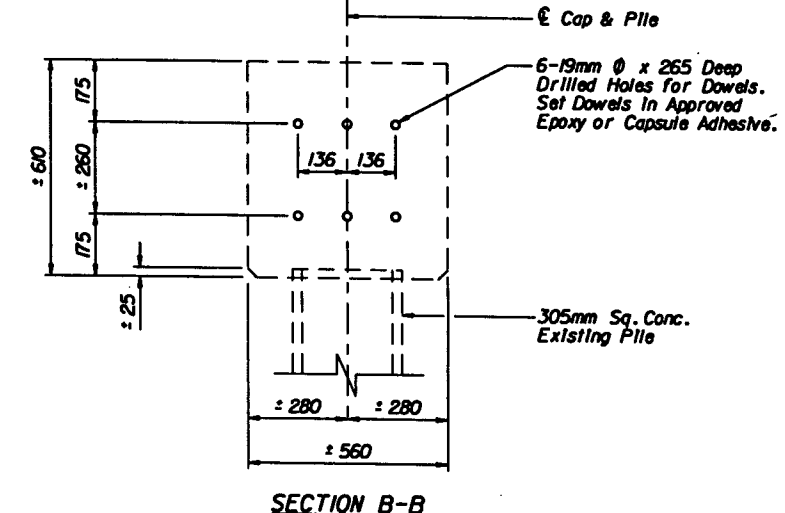
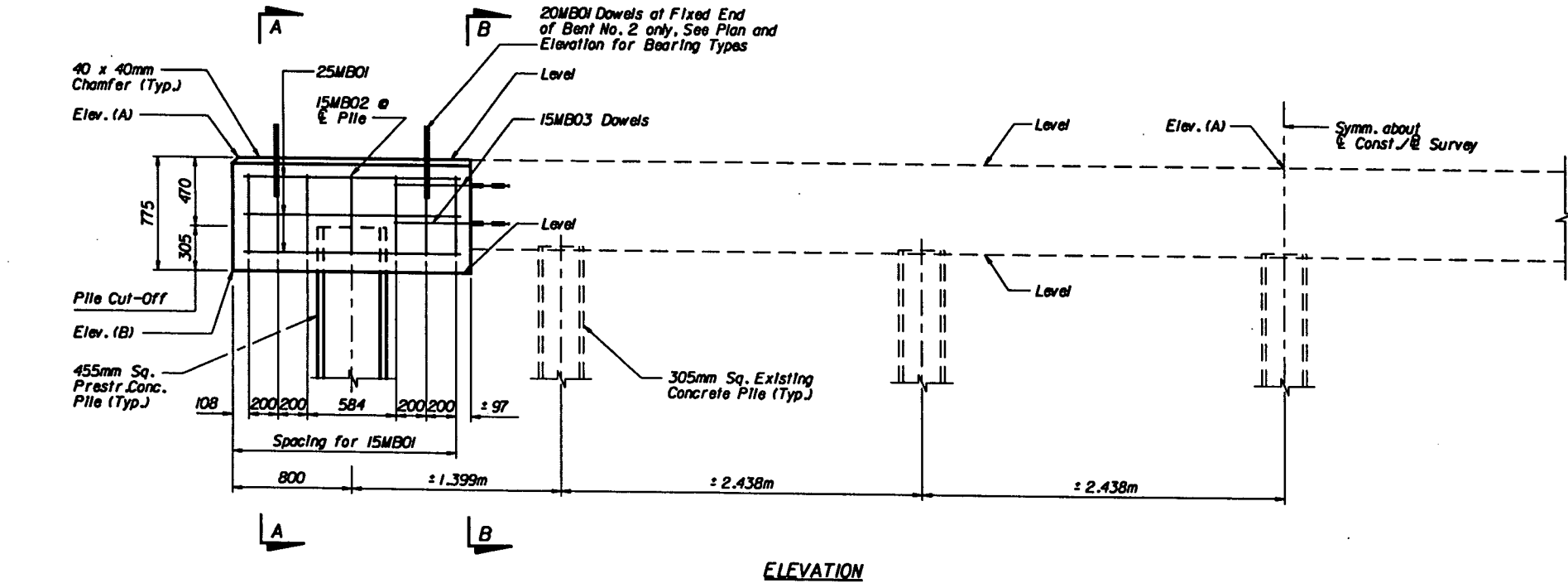
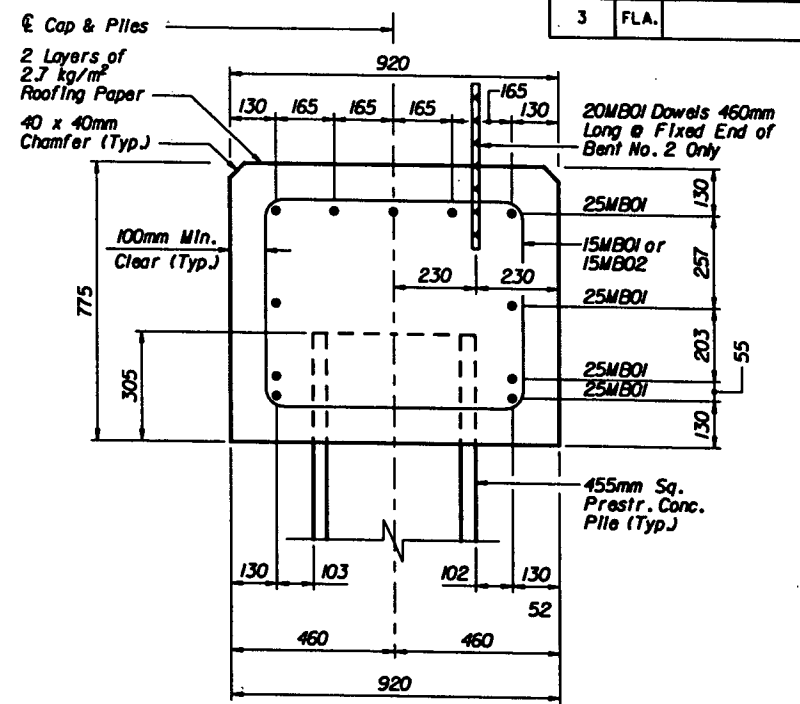
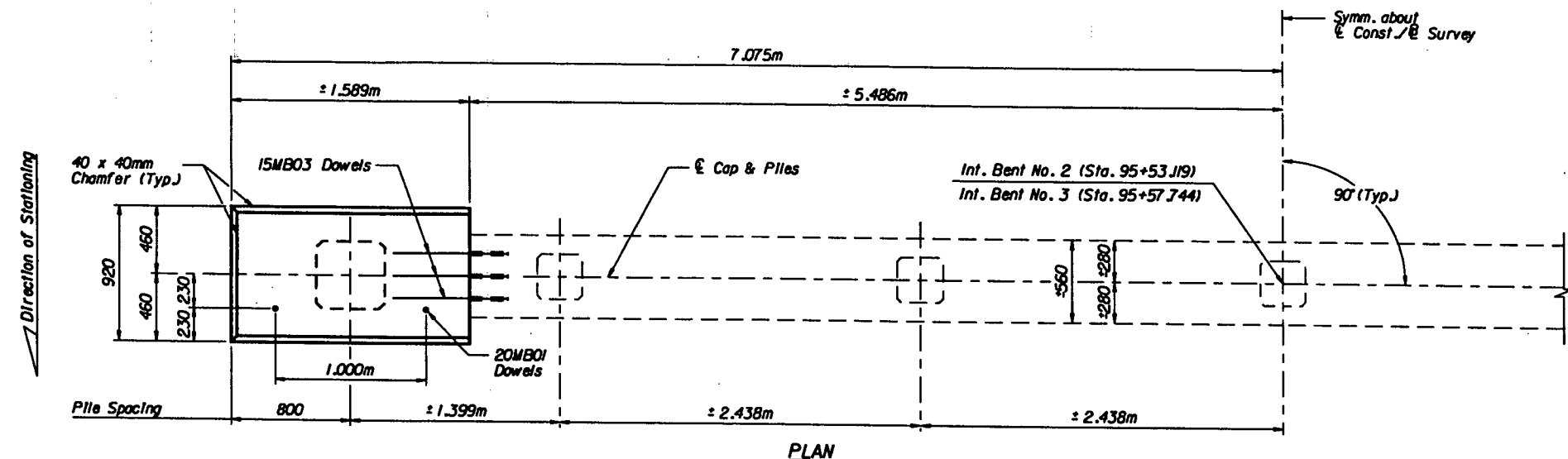
- * Estimated Quantities are for one End Bent only.
 ** See Summary of Bridge Pay Items
- NOTES:**
- For Table of Elevations, See Sheet C-5.
 - For Sections C, D, and G, See Abutment Modifications Detail Sheet C-6.

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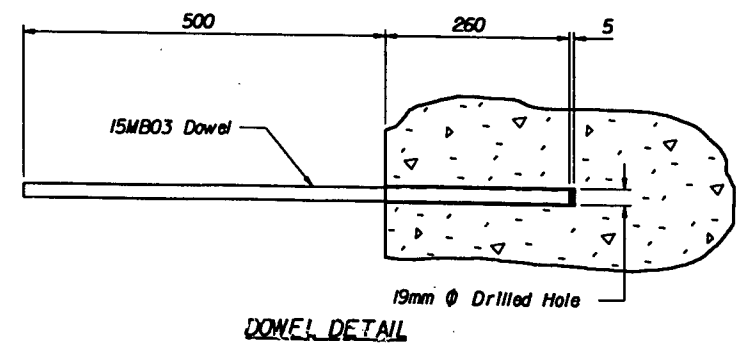
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23 JUN 98

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Date	By	Description	Date	By	Description																						

FILE NO.	STATE	PROJECT NO.	FISCAL YEAR	SHEET NO.
3	FLA.			C-B



- NOTES:**
- Dowels shall be set in approved epoxy or capsule adhesive (Class II). Where reinforcing is encountered, shift hole to clear. The cost of approved epoxy or capsule adhesive and installing dowels shall be included in the Contract Unit Price of Item No. 2400-4-5 Class II Concrete (Substructure).
 - All piles are plumb.
 - The removal of a 50mm layer of gunite coating will be required where the cap extension meets the existing cap.
 - Dowel holes shall be cleaned thoroughly and free of moisture prior to anchor installation. See adhesive manufacturer's instructions for specific installation procedures.
 - The Gunite shall be removed in a manner that provides a clean smooth surface to which the cap extension will be added. The cost of Gunite Removal shall be included in the Unit Price of Item No. 2400-4-5 Class II Concrete (Substructure).
 - For Pile Loads, See Sheet C-4.
 - For Bill of Reinforcing, See Sheet C-10.



ESTIMATED QUANTITIES **

ITEM	UNIT	BENT 2	BENT 3
Class II Concrete (Substructure)	m ³	2.2	2.2
Reinforcing Steel (Substructure)	kg	198	194
455mm Prestressed Concrete Piles	m	*	*

* See Summary of Bridge Pay Items.
 ** Quantities are for one Intermediate Bent only.

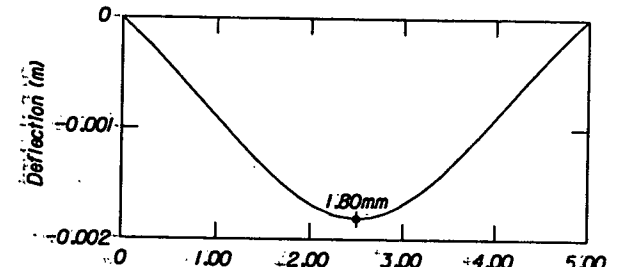
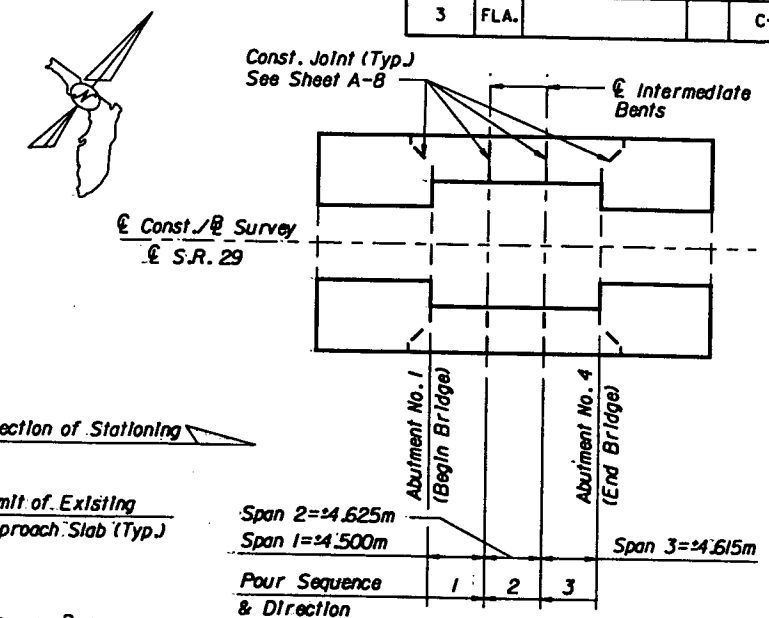
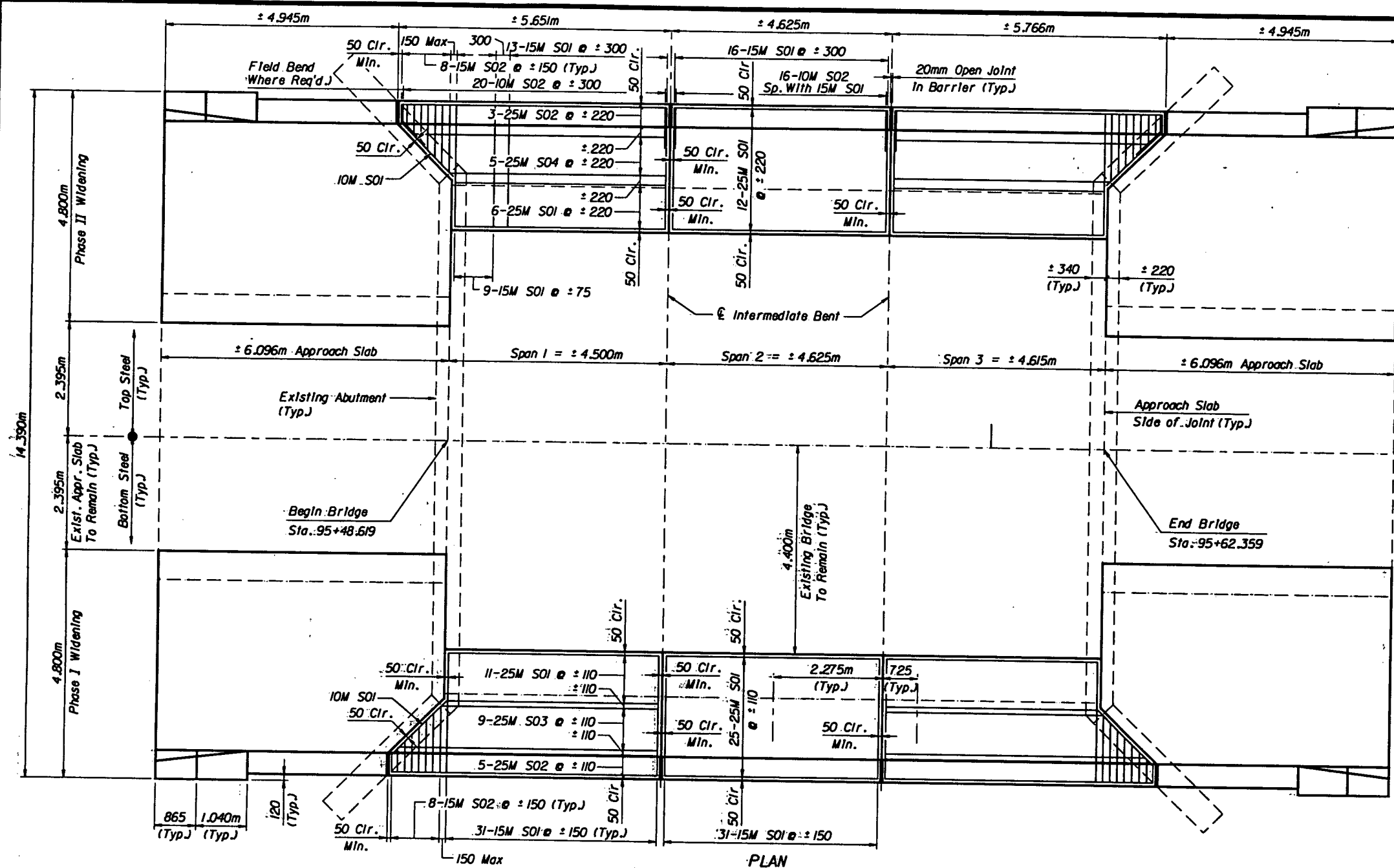
BENT CONSTRUCTION ELEVATIONS

Location	Bent No. 2 95+53.119	Bent No. 3 95+57.744
Elev. (A)	10.375	10.375
Elev. (B)	9.600	9.600
Pile Cut-Off	9.905	9.905

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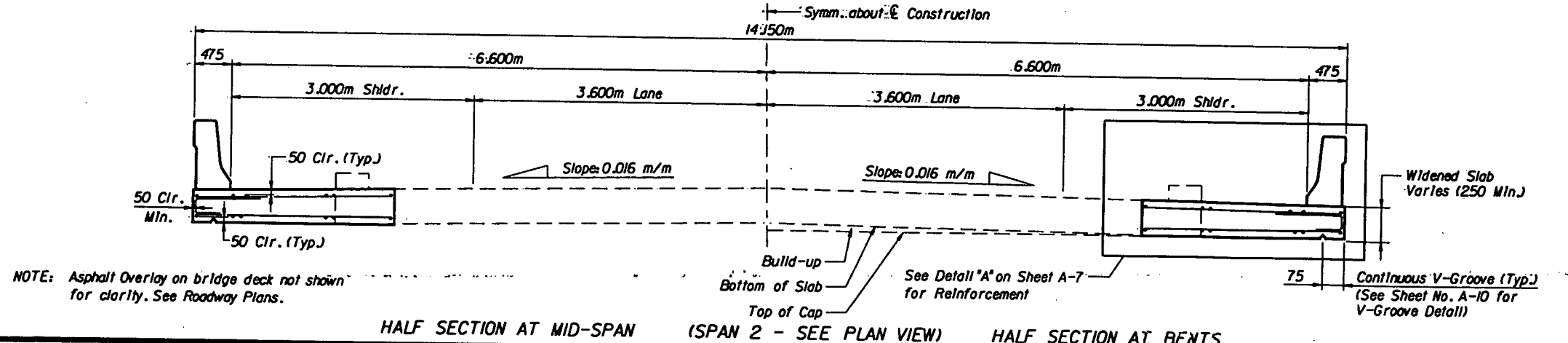
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Date	By	Description	Date	By	Description	ROAD NO.	COUNTY	PROJECT NO.	PROJECT NAME:	S.R. 29 BRIDGE OVER LONE PINE CREEK, BRIDGE NO. 050035		Index No.			
						SR-29	GLADES	05090-3511							



- NOTES:
- Set bars in slab for Barrier as detailed on Barrier Sheet.
 - Pouring Sequence: After pouring the first unit, succeeding pours shall begin at the end away from and proceed toward the previously placed unit. (The first unit may be at either end of bridge)
 - No unit shall be placed adjacent to a previously placed unit that is not a minimum of 72 hours old.
 - The contractor shall camber the forms to compensate for the combined effect of the deflection of the forms and the dead load deflection of the slab.
 - The contractor may submit for approval a revised casting sequence. The submittal shall include structural analysis by the specialty Engineer reflecting the new casting sequence and its effect on the Camber Diagram. The revision shall be in conformance with Chapter 19 of the Structures Design Guidelines.

* ESTIMATED QUANTITIES		
ITEM	UNIT	QUANTITY
Class IV Concrete - Superstructure	m ³	2170
Reinforcing Steel (Superstructure)	kg	5663
Concrete Traffic Railing Barrier **	m	321

* Quantities are for the complete Superstructure.



NOTE: Asphalt Overlay on bridge deck not shown for clarity. See Roadway Plans.

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REVISIONS

Date	By	Description	Date	By	Description

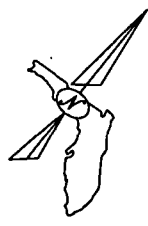
ENGINEER OF RECORD:
JMI ENGINEERS, INC.
 900 Winderley Place, Ste. 148
 Maitland, Florida 32751
 Tel: 407-875-1550 Fax: 407-875-0560

LOGO: SEAL:

FLORIDA DEPARTMENT OF TRANSPORTATION
STRUCTURES DESIGN OFFICE

SHEET TITLE: **3-SPAN SUPERSTRUCTURE**
 PROJECT NAME: **S.R. 29 BRIDGE OVER LONE PINE CREEK, BRIDGE NO. 050035**

FED. ROAD DIST. NO.	STATE	PROJECT NO.	FISCAL YEAR	SHEET NO.
3	FLA.			D-1

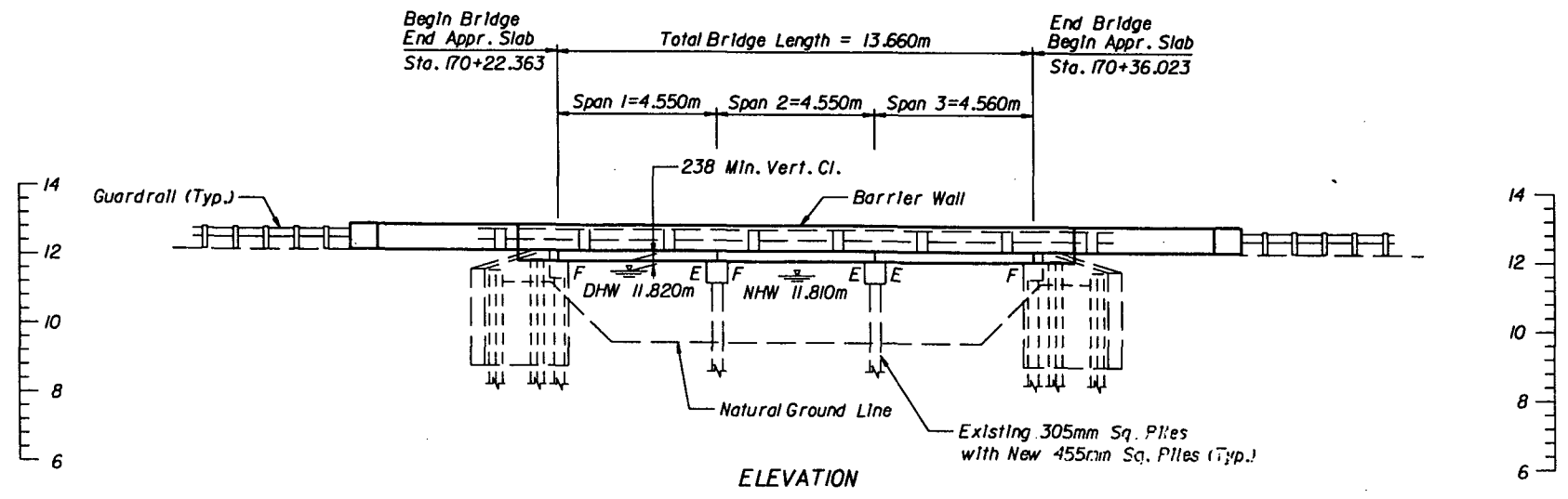
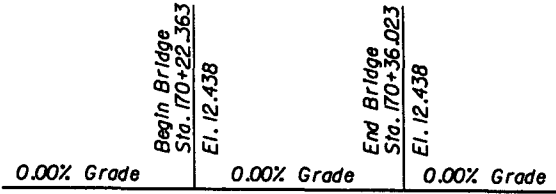
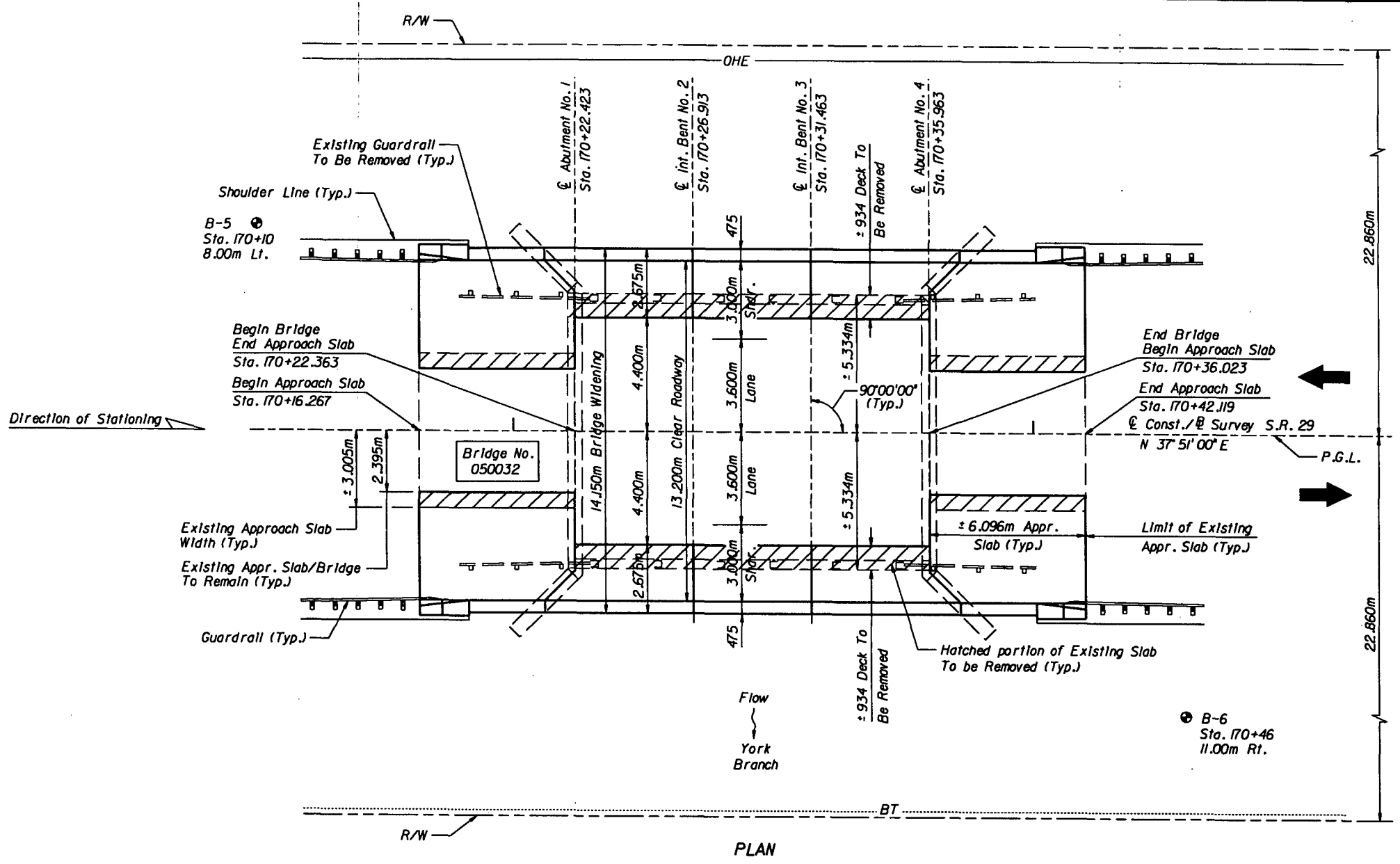


TRAFFIC DATA

1996 AADT = 2800
 1999 EST. AADT = 3000
 2019 EST. AADT = 4800

K = 10.4%
 D = 55.6%
 T = 32.6% (24 HR.)
 T = 16.3% (DESIGN HR.)

DESIGN SPEED 100 km/h



NOTE:

1. Elevations shown in the Profile Grade Diagram refer to top of deck elevations. The PGL elevations is a maximum of 77 mm above the & deck elevation due to the asphalt overlay. Refer to the Roadway Plans for the asphalt overlay.

22 JUN 98 18:39:49 Brett Leaflier N:\0711_01\work\050032\gmp\032.dgn

REVISIONS			
DATE	BY	DESCRIPTION	

NAME	DATE
DRAWN BY BL	8-97
CHECKED BY SB	8-97
DESIGNED BY SB	8-97
CHECKED BY RTC	8-97
APPROVED BY	

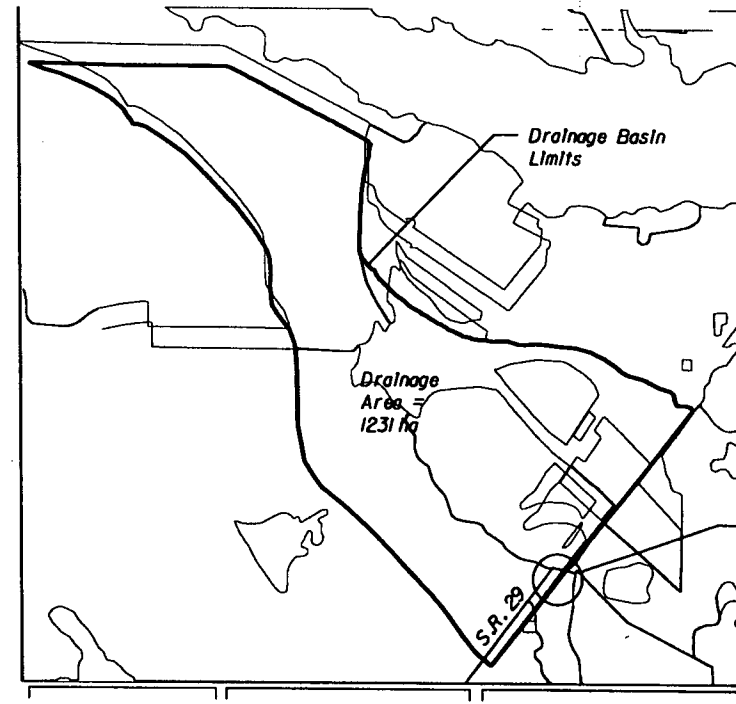
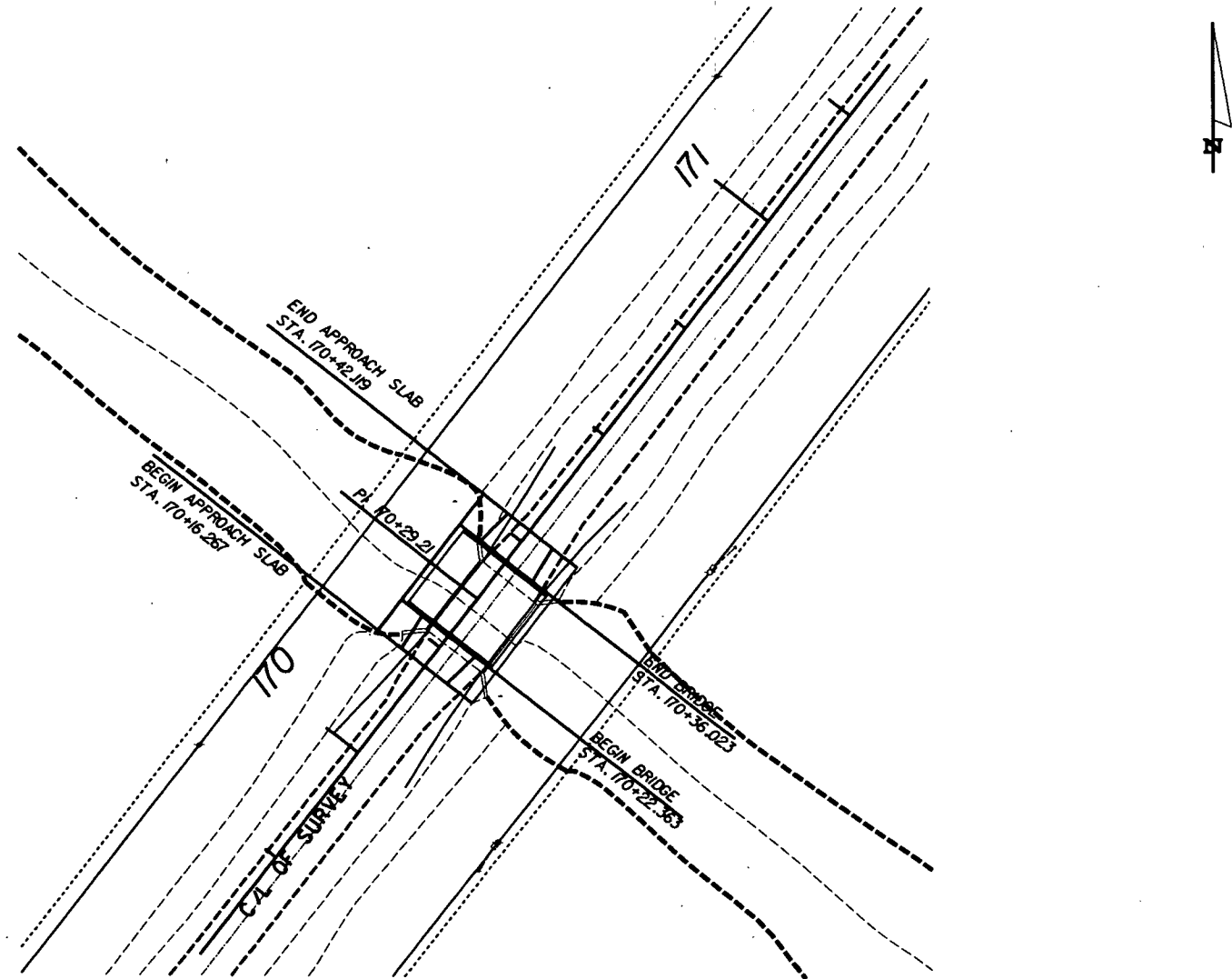
ENGINEER OF RECORD:
 CORZO CASTIELLA CARBALLO THOMPSON SALMAN, P.A.
 ENGINEERS-ARCHITECTS-PLANNERS
 901 PONCE DE LEON BLVD., SUITE 900
 CORAL GABLES, FLORIDA 33134
 MIAMI (305) 448-2988 FLORIDA (888) 448-8252
 FL REGISTRATIONS: EB0805822 AAC02142

Signature
 6/22/98

FLORIDA DEPARTMENT OF TRANSPORTATION STRUCTURES DESIGN OFFICE		
ROAD NO.	COUNTY	PROJECT NO.
SR-29	GLADES	05090-3511

SHEET TITLE: PLAN AND ELEVATION		DRAWING NO.
PROJECT NAME: S.R. 29 BRIDGE OVER YORK BRANCH, BRIDGE NO. 050032		INDEX NO.

W.P.J. No. 1110874



(REFERENCE)	(1)	(2)	(3)	(4)	ASSUMED CONFIGURATION
FOUNDATION	0.035 PILES				0.305 PILES
OVERALL LENGTH	(+/-) 13.660				(+/-) 13.660
SPAN LENGTH	(+/-) 4.550				(+/-) 4.550
TYPE CONSTRUCTION	FLAT SLAB				FLAT SLAB
AREA OF OPENING @ H.W.	(+/-) 121.924				(+/-) 121.924
ROADWAY WIDTH	10.668				14.150
ELEV. LOW MEMBER	12.058				12.058

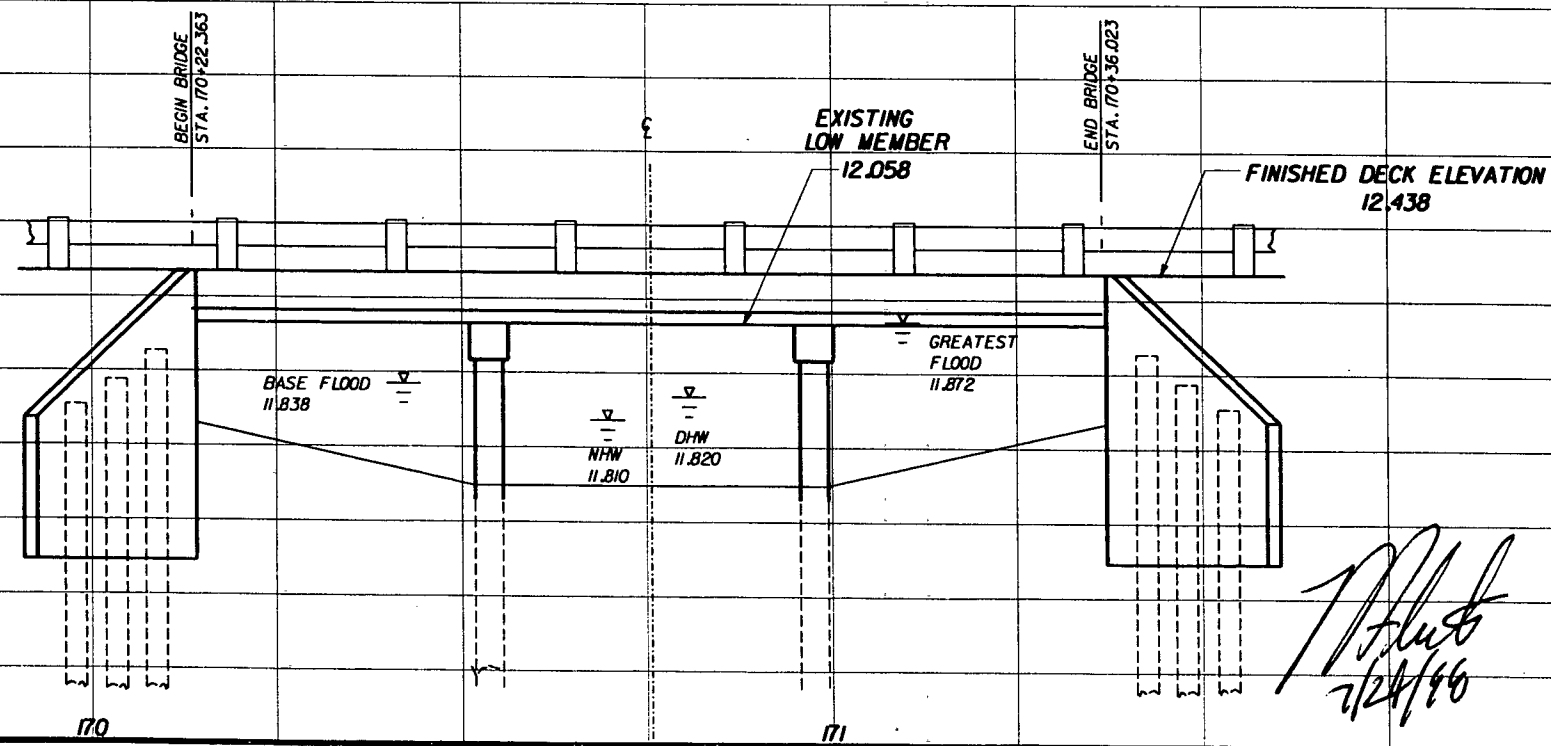
HYDRAULIC DESIGN DATA
 NOTE: The hydraulic data is shown for informational purposes only to indicate the flood discharges and water surface elevations which may be anticipated in any given year. This data was generated using highly variable factors determined by a study of the watershed. Many judgements and assumptions are required to establish these factors. The resultant hydraulic data is sensitive to changes, particularly antecedent conditions, urbanization, channelization and land use. Users of this data are cautioned against the assumption of precision which cannot be obtained.

DEFINITIONS:
 Design Flood: The flood utilized to assure a desired level of hydraulic performance.
 Base Flood: The flood having a 1% chance of being exceeded in any year. (100 Year Frequency)
 Overtopping Flood: The flood which causes flow over the highway, over a watershed divide or thru emergency relief structures.
 Greatest Flood: The most severe flood which can be predicted where overtopping is not practicable.

WATER SURFACE ELEVATIONS: N.H.W. (Non-Tidal) 11.810 M.H.W. _____ M.L.W. _____

FLOOD DATA:	MAX. EVENT OF RECORD	DESIGN FLOOD	BASE FLOOD	<input type="checkbox"/> OVERTOPPING FLOOD	<input checked="" type="checkbox"/> GREATEST FLOOD
STAGE ELEV. NGVD (M)	11.830	11.820	11.838	11.872	11.872
DISCHARGE (CM/S)	446	446	512	666	666
AVERAGE VELOCITY (M/S)		0.884	0.994	1.237	1.237
EXCEEDANCE PROB. (%)		2.00%	1.00%	0.2%	0.2%
FREQUENCY (YR.)		50	100	500	500

- HYDRAULIC RECOMMENDATIONS**
- BEGIN BRIDGE STATION 170+22.363 END BRIDGE STATION 170+36.023 SKEW ANGLE 0°
 - CHANNEL SECTION: E STATION _____ BOTTOM WIDTH 13.716 ELEV. 10.3 SIDE SLOPE 0
 - LIMITS OF CHANNEL EXCAVATION: RT. _____ N/A LT. _____ N/A
 - CLEARANCE: NAVIGATION: HORIZ. N/A VERT. N/A ABOVE EL. N/A DRIFT: HORIZ. 4.166 VERT. 0.270 ABOVE EL. 11.790
 - SCOUR PREDICTION: 100 YEAR DESIGN SCOUR EL. 7.90 DEPTH = 13.00
500 YEAR SCOUR EL. 7.36 DEPTH = 15.62
 - SLOPE PROTECTION: NONE
 - DECK DRAINAGE: RUNOFF WILL SHEET FLOW OFF BRIDGE THRU REPLACEMENT SCUPPERS
 - OTHER: _____
- REMARKS: _____

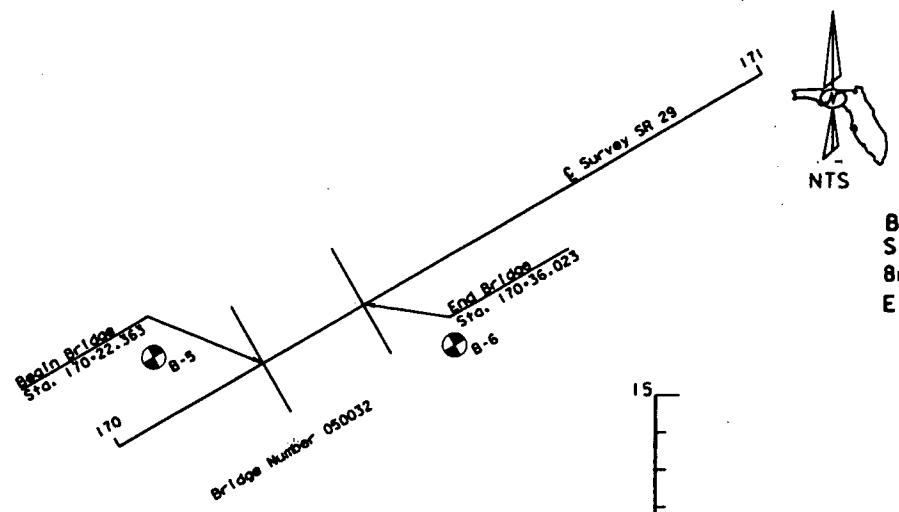


J. Fluck
2/24/96

REVISIONS

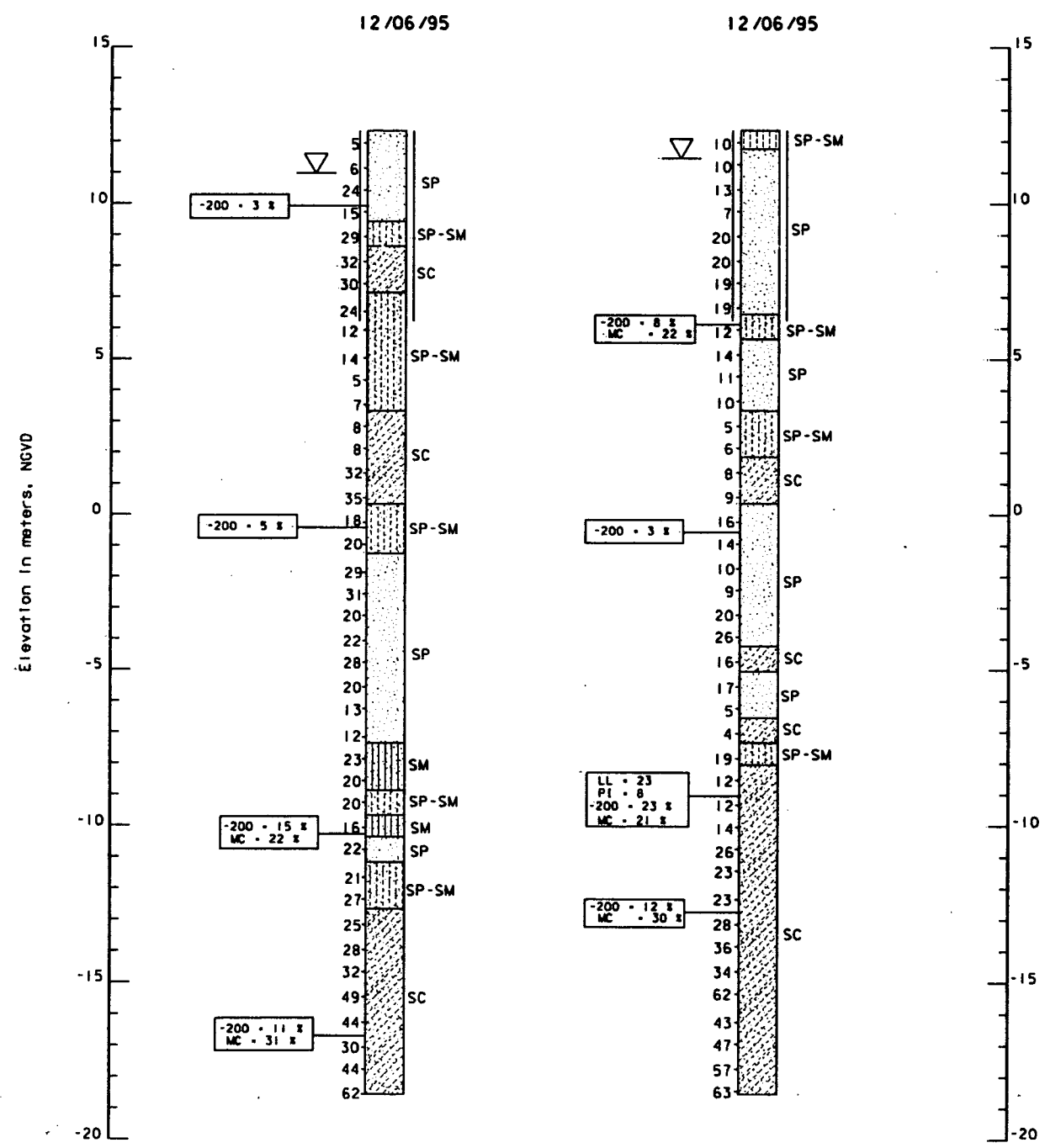
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BORING NO. B-5
Sta. 170-10
8m LT. of Centerline
Elev. 12.32 m

BORING NO. B-6
Sta. 170-46
11m RT. of Centerline
Elev. 12.35 m



LEGEND :

- SP. Poorly graded sands, sand-silt mixtures.
- SC. Clayey sands, sand-clay mixtures.
- SP-SM. Poorly graded sands and gravelly sands, to silty sands, sand-silt mixtures.
- SM. Silty sands, sand-silt mixtures.

NOTES :

Numbers to the left of borings indicate SPT values for 300 mm penetration. (Unless otherwise noted.)

50/90 - Numbers of blows for 90 mm of penetration.

▽ - Water Table

- Casing used

Rig Used - Falling 1500
Hammer Type - 63.5 kn Manual

WATER :

Resistivity : >10,000 ohm-cm. Chlorides : 40 ppm, Sulfates : <2, pH : 4.7.

ENVIRONMENTAL CLASSIFICATION

Substructure : Concrete : Extremely Aggressive (Due to pH)
Steel : Extremely Aggressive (Due to pH)
Superstructure : Slightly Aggressive

Granular Materials - SPT (Blows/300mm)

Relative Density	SPT (Blows/300mm)
Very Loose	Less than 4
Loose	4 - 10
Medium or Compact	10 - 30
Dense	30 - 50
Very Dense	Greater than 50

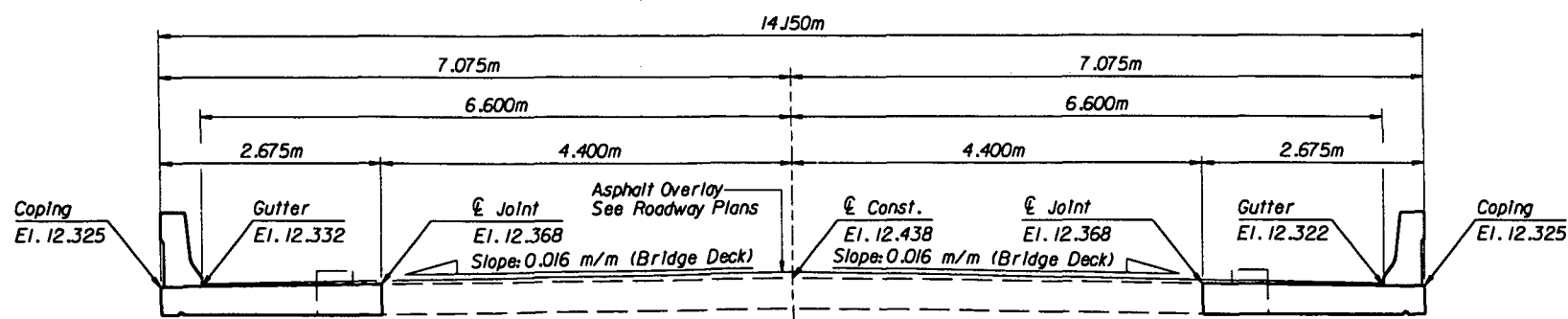
Silts and Clays - SPT (Blows/300mm)

Consistency	SPT (Blows/300mm)
Very Soft	Less than 2
Soft	2 - 4
Firm	4 - 8
Stiff	8 - 15
Very Stiff	15 - 30
Hard	Greater than 30

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REVISIONS				ENGINEER OF RECORD:		LOGO:		SEAL:		FLORIDA DEPARTMENT OF TRANSPORTATION		SHEET TITLE:	
Date	By	Description	Date	By	Description	MATERIALS OFFICE				MATERIALS OFFICE		Report of Core Borings	
11/18/96	TNP	Hammer Type revised	02/11/97	MEH	N value's corrected	DISTRICT 1				PROJECT NO.		SR 29/over York Branch	
			06/20/97	TNP	Begin & End Bridge stations, corrected	801 N. Broadway		ROAD NO.		COUNTY		Index No.	
					Sheet Numbers, added	Bartow, Florida 33830-1249		29		Glades		1	
					Approved by	T.N. Puckett				PROJECT NO.		05090-3511	

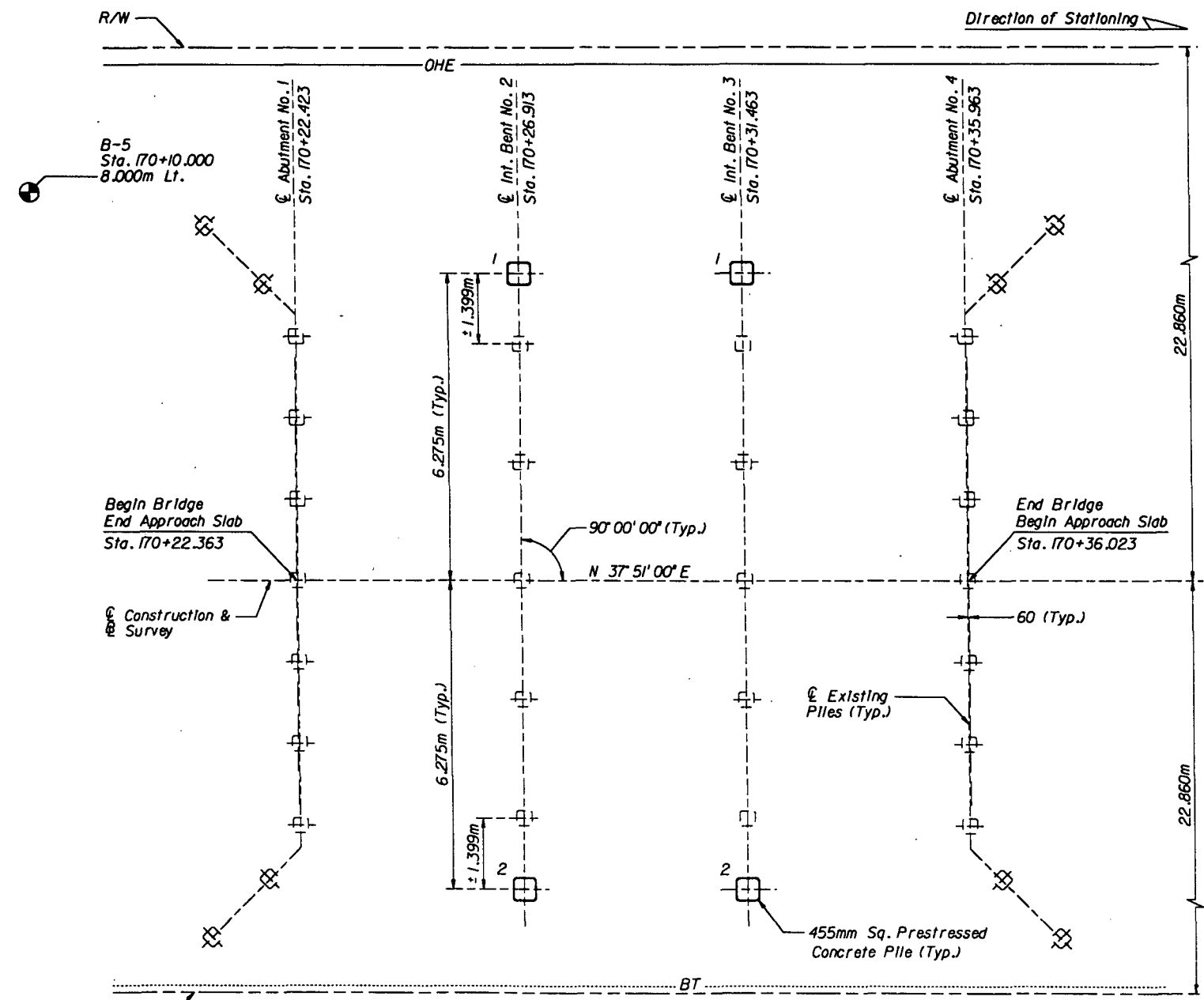
FED. ROAD DIST. NO.	STATE	PROJECT NO.	FISCAL YEAR	SHEET NO.
3	FLA.			D-4



SECTION THRU SUPERSTRUCTURE SHOWING FINISH DECK ELEVATIONS

Bent	Pile Size (mm)	Design Load (kN)	Min. Tip Elev. (m, NGVD)	Scour Elev. (m, NGVD)	Total Scour Resistance* (kN)	Total Down Drag (kN)	Reqd. Perform to Elev. (m)	Reqd. Jet to Elev. (m)	Net Scour Resistance** (kN)	Test Pile Length (m)
2	455	280	+3.0	+8.5	100	N.A.	N.A.	N.A.	100	N.A.
3	455	280	+3.0	+8.5	100	N.A.	N.A.	N.A.	100	N.A.

RDR = (Design Load x FS) + Net Scour Resistance + Total Downdrag where FS is the appropriate safety factor in accordance with the Standard Specifications A455-3J2.2



FOUNDATION LAYOUT

NOTES:

- * Total side resistance from ground line to the scour elevation.
- ** Net side friction resistance from the required performed or jetting elevation to the scour elevation.
- RDR is the Required Driving Resistance. All piles shall be driven to the design load times the appropriate factor of safety in accordance with Section A455-3J2.2 of the Standard Specifications plus the total downdrag and net scour resistance.
- Pile driving criteria will be established using the Wave Equation Method by the District Geotechnical Office.
- If jetting or performing elevations differ from those on the table, the engineer shall be responsible for determination of the required driving resistance.
- Scour has been considered in the design with scour elevations shown in the table.
- The minimum tip elevation shown is required for lateral stability. Under no circumstance shall the pile be installed above the minimum tip elevation shown in the table.
- Recommended Production Pile Lengths are 12.000m.

LEGEND:

- Denotes 455mm Sq. Prestressed Concrete Piles
- Denotes 305mm Sq. Concrete Existing Piles

GENERAL NOTES:

- All New Piles are 455mm Sq. Prestressed Concrete Piles.
- All New Piles are Plumb.
- For the Pile Cutoff Elevations, see Substructure sheets.
- All existing piles are to remain.

Date	By	Description	Date	By	Description

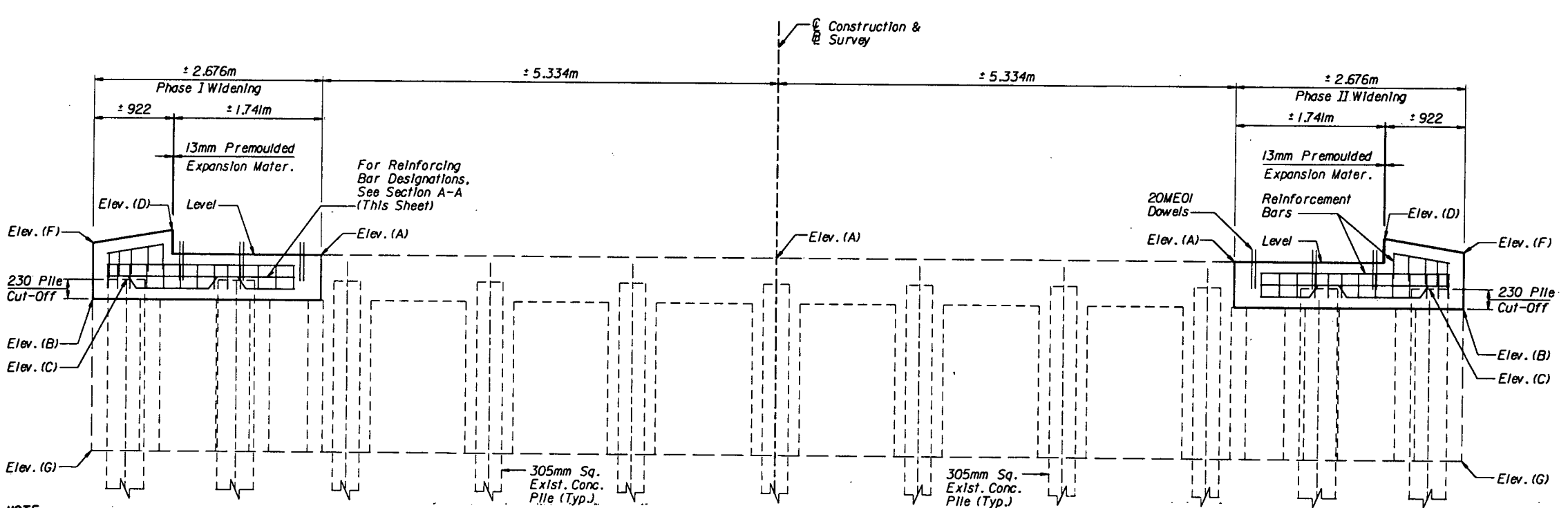
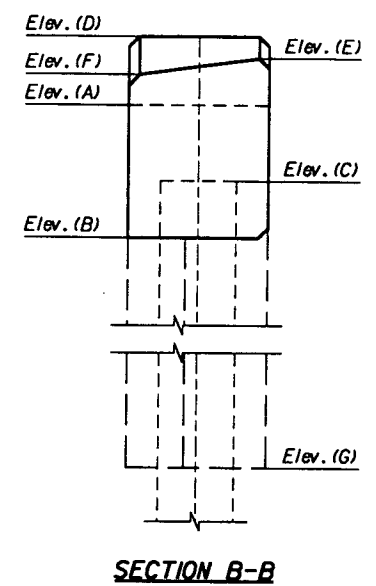
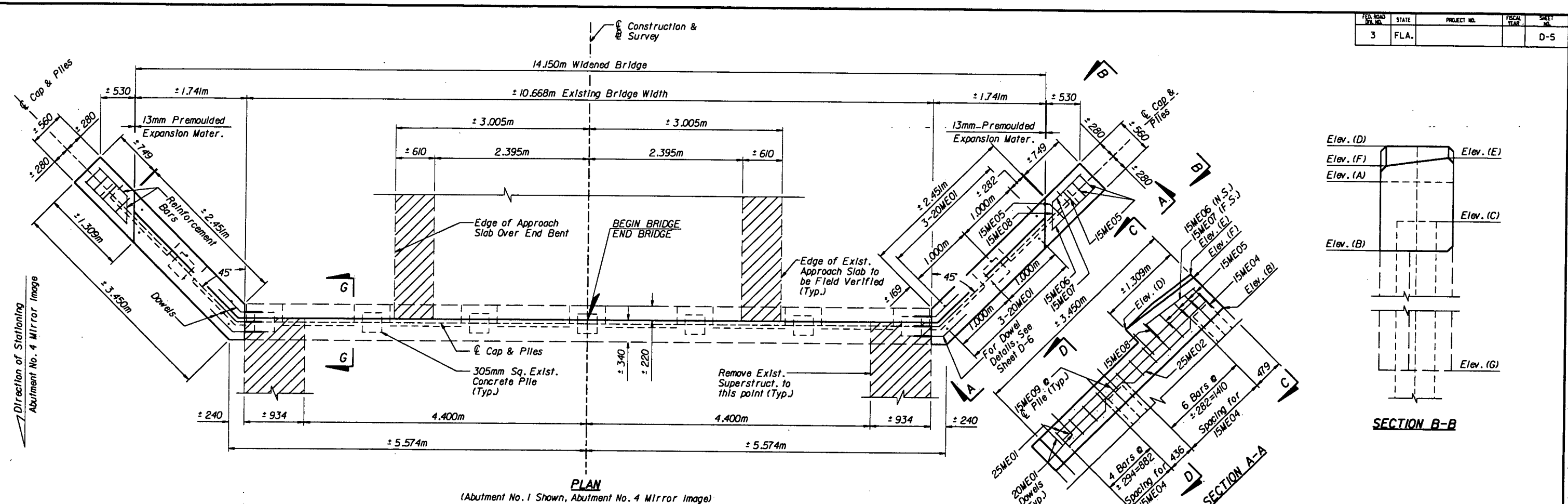
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Checked by	S. Belire	August 1997
Designed by	S. Belire	August 1997
Checked by	R.T. Carballo	August 1997
Approved by	R.T. Carballo, P.E.	

ENGINEER OF RECORD:
 CORZO CASTELLA CARBALLO THOMPSON SALMAN, P.A.
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 CORAL GABLES, FLORIDA 33134
 MIAMI (305)-445-2988 FLORIDA (888)-448-8227
 FL REGISTRATIONS: EG8895622 AAC82142

FLORIDA DEPARTMENT OF TRANSPORTATION STRUCTURES DESIGN OFFICE		
ROAD NO.	COUNTY	PROJECT NO.
SR-29	GLADES	05090-3511

SHEET TITLE:	FOUNDATION LAYOUT & FINISH GRADE ELEVATIONS	Drawing No.	
PROJECT NAME:	S.R. 29 BRIDGE OVER YORK BRANCH, BRIDGE NO. 050032	Index No.	

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ABUTMENT CONSTRUCTION ELEVATIONS	
Location	Abutment Nos. 1 & 4
Elev. (A)	12.058 (Top of Cap)
Elev. (B)	11.524 (Bottom of Cap)
Elev. (C)	11.754 (Pile Cut-Off)
Elev. (D)	12.338
Elev. (E)	12.250
Elev. (F)	12.184
Elev. (G)	*9.754

* Elevation G has been obtained from the existing plans. Contractor to field verify if required.

LEGEND:

Area to be Removed

NOTES:

- For Estimated Quantities, See Abutment Modification Detail Sheet D-7.
- For Detailed Removal of Approach Slab, See Approach Slab Sheet In the Roadway Plans.
- All contact surfaces between old and new concrete shall be cleaned.
- For Sections C, D, and G, See Abutment Modifications Detail Sheet D-6.

NOTE:
Existing vertical steel in abutment wall shall remain in place. Bars shall be cleaned and embedded in proposed portion of cap. Where necessary existing bars shall be cut to provide 100mm minimum clearance.

REVISIONS

Date	By	Description

Names	Dates
Drawn by B. Loeffler	August 1997
Checked by S. Beltré	August 1997
Designed by S. Beltré	August 1997
Checked by R.T. Carballo	August 1997
Approved by R.T. Carballo, P.E.	

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 CORAL GABLES, FLORIDA 33134
 MIAMI (305)-445-2988 FLORIDA LICENSE # 33134
 FL REGISTRATIONS: EB8895622 AAC82142

SEAL:

FLORIDA DEPARTMENT OF TRANSPORTATION
STRUCTURES DESIGN OFFICE

ROAD NO.	COUNTY	PROJECT NO.
SR-29	GLADES	05090-3511

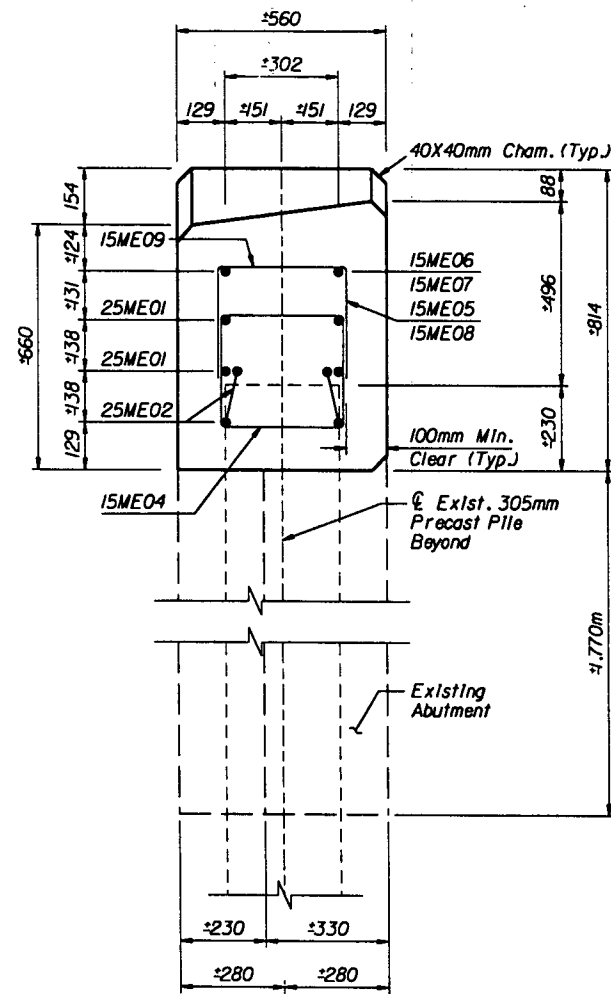
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ABUTMENT MODIFICATIONS

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S.R. 29 BRIDGE OVER YORK BRANCH, BRIDGE NO. 050032

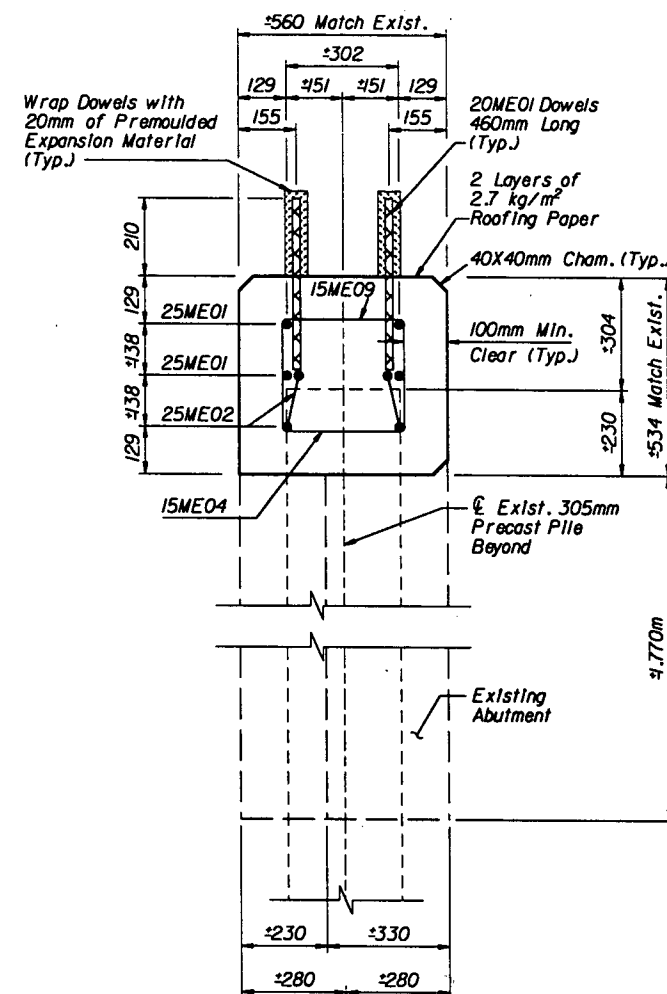
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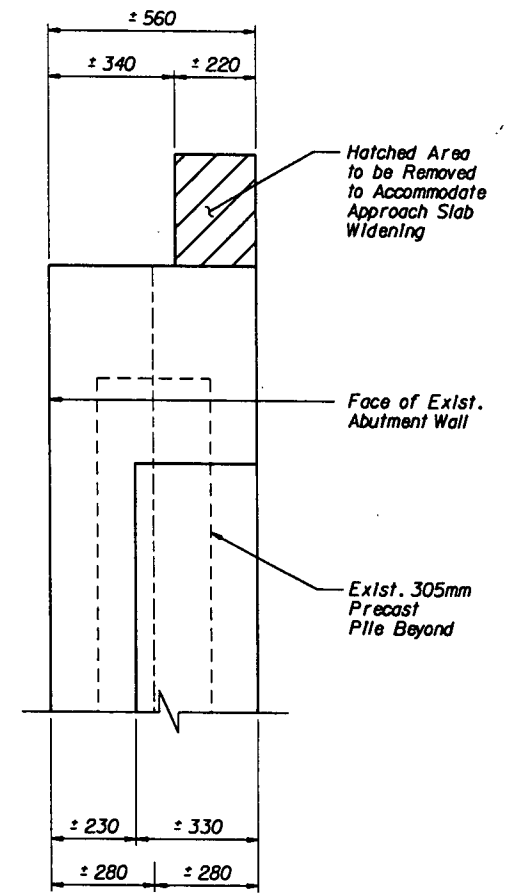
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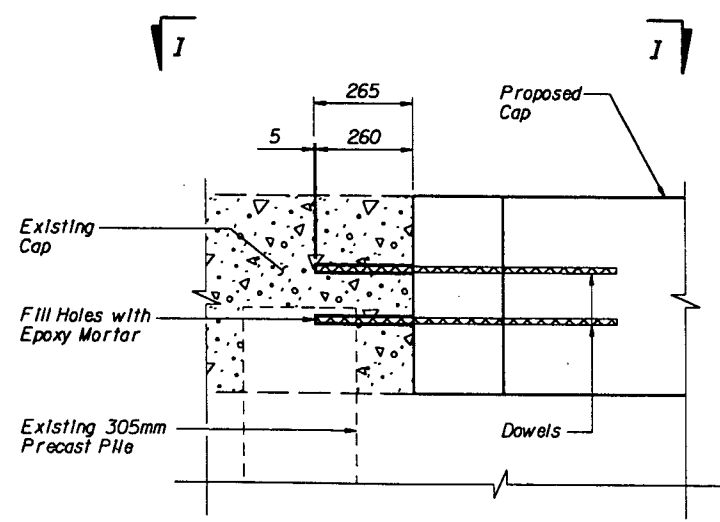
SECTION C-C



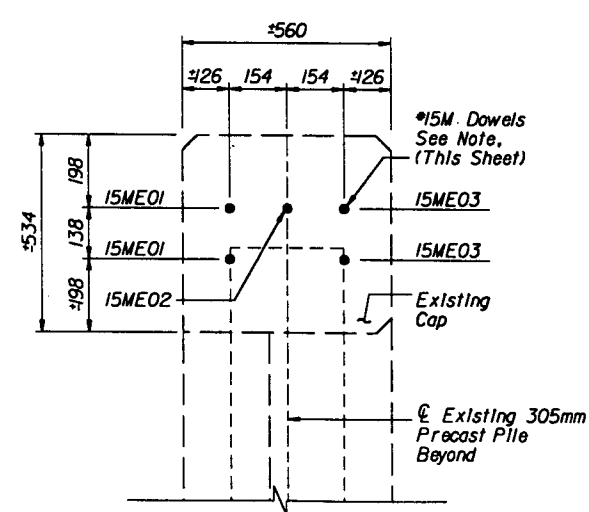
SECTION D-D



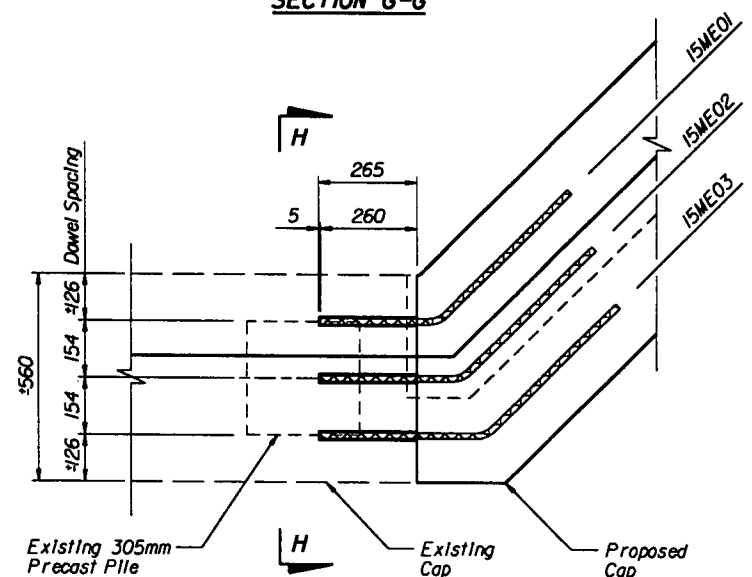
SECTION G-G



DOWEL DETAIL ELEVATION



SECTION H-H

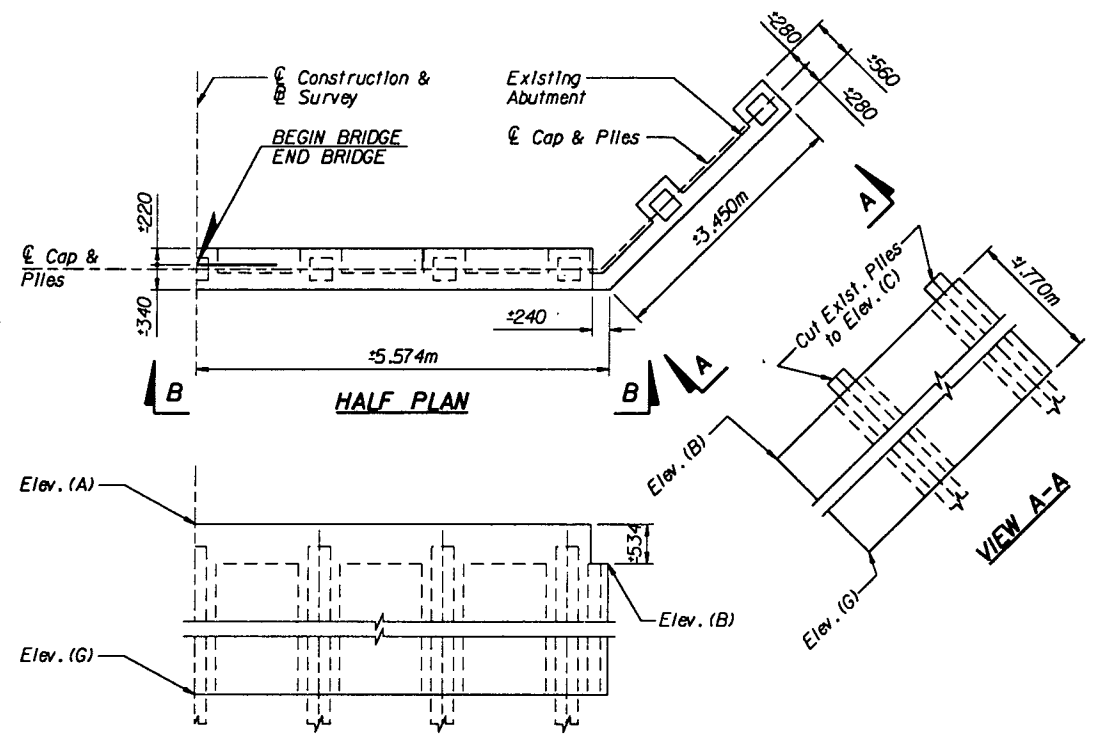


SECTION I-I PLAN

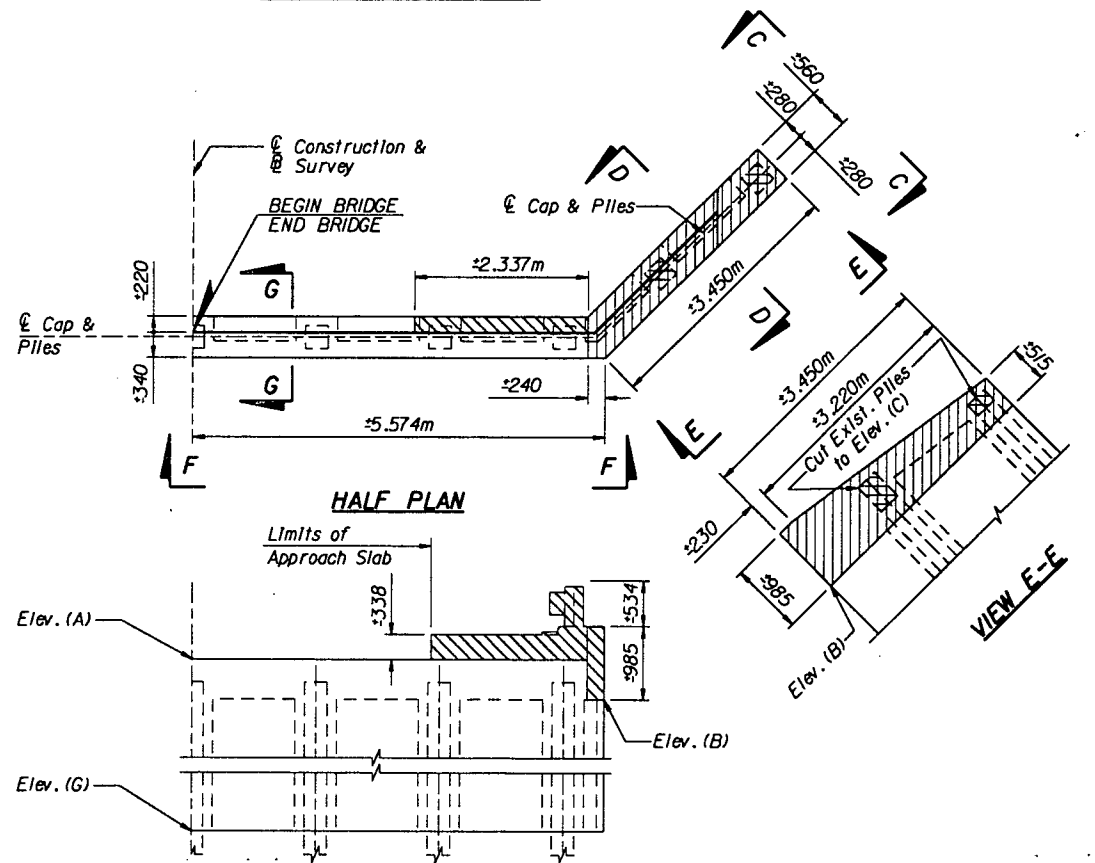
NOTE:
 1. 6-19mm Ø x 265mm Deep Drilled Holes for Dowels. Set Dowels in Approved Epoxy or Capsule Adhesive, (Class IV). See Dowel Details (This Sheet). See Notes on Sheet D-8.

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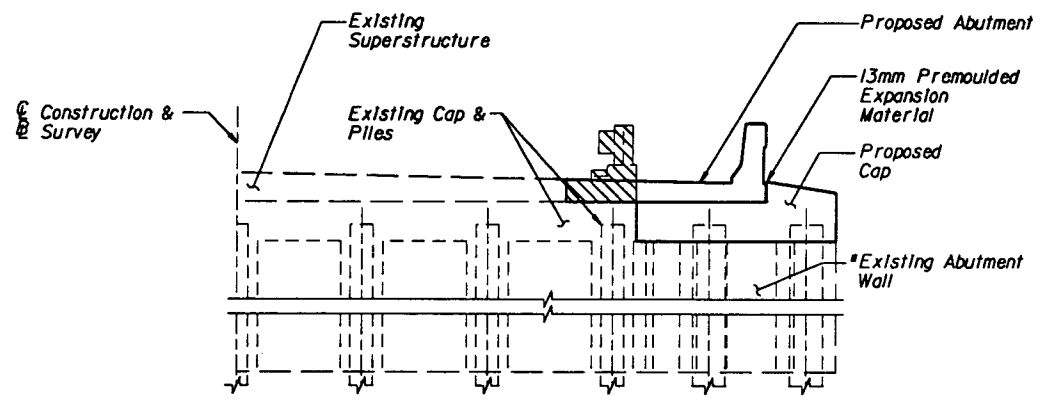
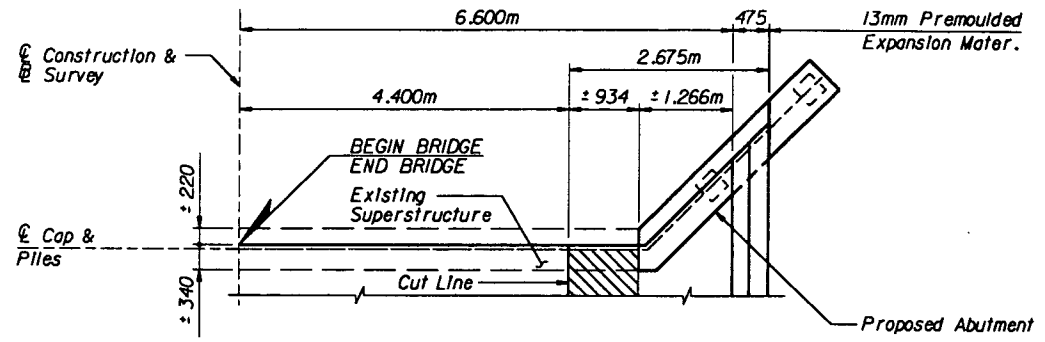
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Date	By	Description	Date	By	Description	CORZO CASTELLA CARBALLO THOMPSON SALMAN, P.A.		STRUCTURES DESIGN OFFICE		ABUTMENT MODIFICATION DETAILS (1 OF 2)		
						Drawn by	B. Loeffler	August 1997	ROAD NO.	SR-29	COUNTY	GLADES
						Checked by	S. Beltre	August 1997	PROJECT NO.	05090-3511		
						Designed by	S. Beltre	August 1997	PROJECT NAME	S.R. 29 BRIDGE OVER YORK BRANCH, BRIDGE NO. 050032		
						Checked by	R.T. Carballo	August 1997				
						Approved by	R.T. Carballo, P.E.					



VIEW B-B
VIEWS SHOWING PORTION OF EXISTING ABUTMENTS TO REMAIN



VIEW F-F
VIEWS SHOWING EXISTING ABUTMENTS (Hatched areas to be removed)



HALF ELEVATION
VIEW SHOWING COMPLETED STRUCTURE
*Existing Vertical Steel In Abutment Wall shall remain in place. Bars shall be Cleaned and Embedded In Proposed Portion of Cap. Where necessary Existing Bars shall be cut to provide 100mm Min. Clearance.

ESTIMATED QUANTITIES		
ITEM	UNIT	QUANTITY
Class IV Concrete (Substructure)	m ³	2.3
Reinforcing Steel (Substructure)	kg	256
455 mm Sq. Prestressed Concrete Piles	m	**

* Estimated Quantities are for one End Bent only.
** See Summary of Bridge Pay Items

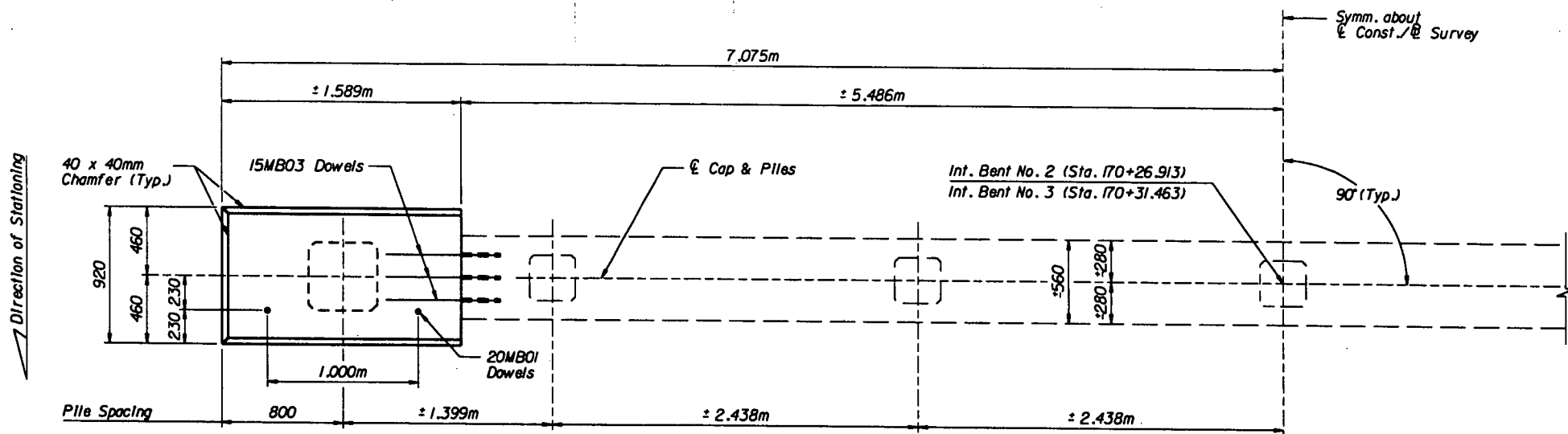
NOTES:

- For Table of Elevations, See Sheet D-5.
- For Sections C, D, and G, See Abutment Modifications Detail Sheet D-6.

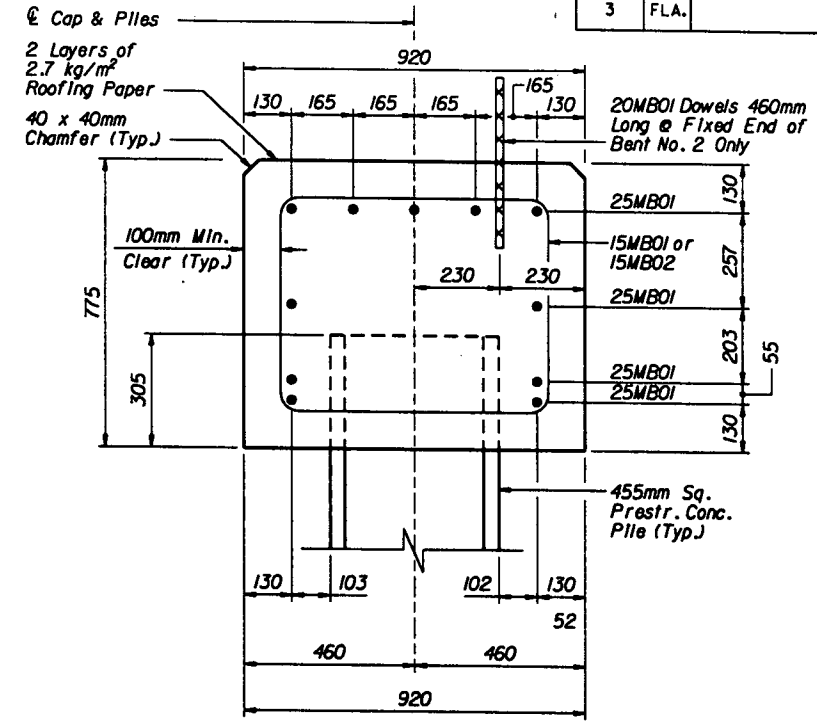
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Date	By	Description	Date	By	Description																															
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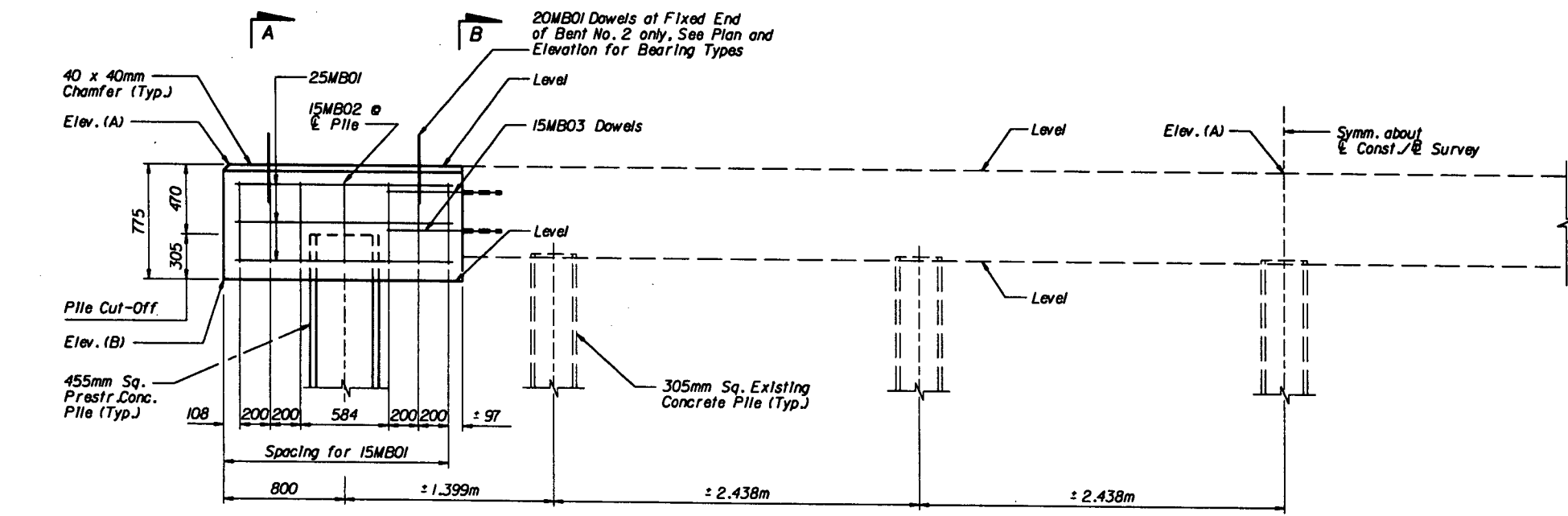
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3	FLA.			D-8



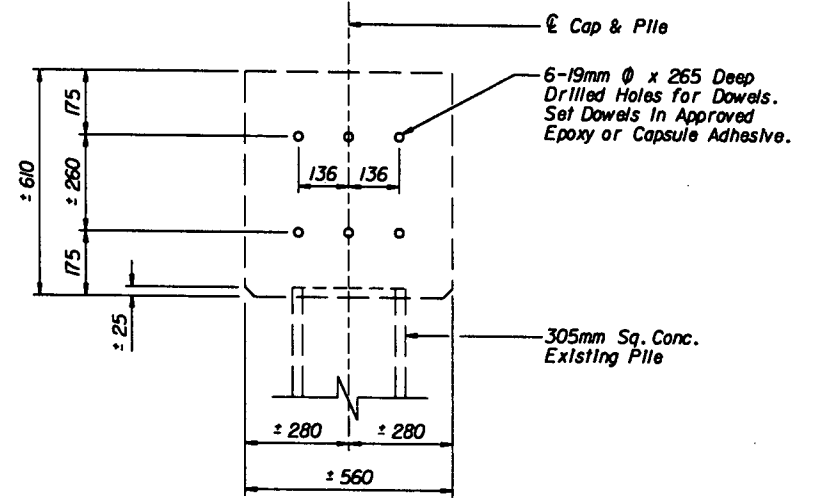
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SECTION A-A



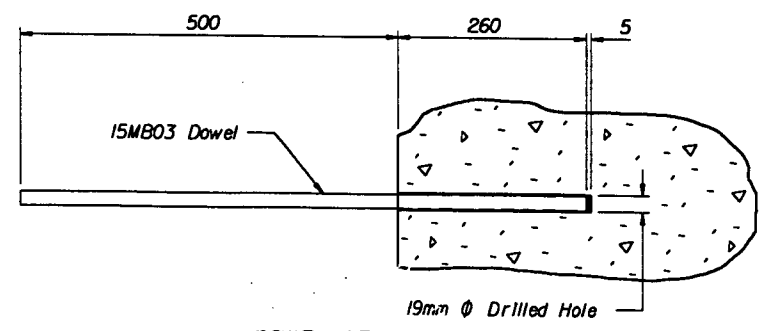
ELEVATION



SECTION B-B

NOTES:

- Dowels shall be set in approved epoxy or capsule adhesive (Class II). Where reinforcing is encountered, shift hole to clear. The cost of approved epoxy or capsule adhesive and installing dowels shall be included in the Contract Unit Price of Item No. 2400-4-5 Class II Concrete (Substructure).
- All piles are plumb.
- The removal of a 50mm layer of gunite coating will be required where the cap extension meets the existing cap.
- Dowel holes shall be cleaned thoroughly and free of moisture prior to anchor installation. See adhesive manufacturer's instructions for specific installation procedures.
- The Gunite shall be removed in a manner that provides a clean smooth surface to which the cap extension will be added. The cost of Gunite Removal shall be included in the Unit Price of Item No. 2400-4-5 Class II Concrete (Substructure).
- For Pile Loads, See Sheet D-4.
- For Bill of Reinforcing, See Sheet D-10.



DOWEL DETAIL

ITEM	UNIT	BENT 2	BENT 3
Class IV Concrete (Substructure)	m ³	2.2	2.2
Reinforcing Steel (Substructure)	kg	198	194
455mm Prestressed Concrete Piles	m	*	*

* See Summary of Bridge Pay Items.
 ** Quantities are for one intermediate Bent only.

Location	Bent No. 2 170+26.913	Bent No. 3 170+31.463
Elev. (A)	12.058	12.058
Elev. (B)	11.283	11.283
Pile Cut-Off	11.588	11.588

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 13 SEP 97

Date	By	Description	Date	By	Description

Names	Dates
Drawn by B. Loeffler	August 1997
Checked by S. Beltre	August 1997
Designed by S. Beltre	August 1997
Checked by R.T. Carballo	August 1997
Approved by R.T. Carballo, P.E.	

ENGINEER OF RECORD:
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 CORAL GABLES, FLORIDA 33124
 MIAMI (305)-445-2988 FLORIDA (800)-448-8227
 FL REGISTRATIONS: EBR005022 AAC002142

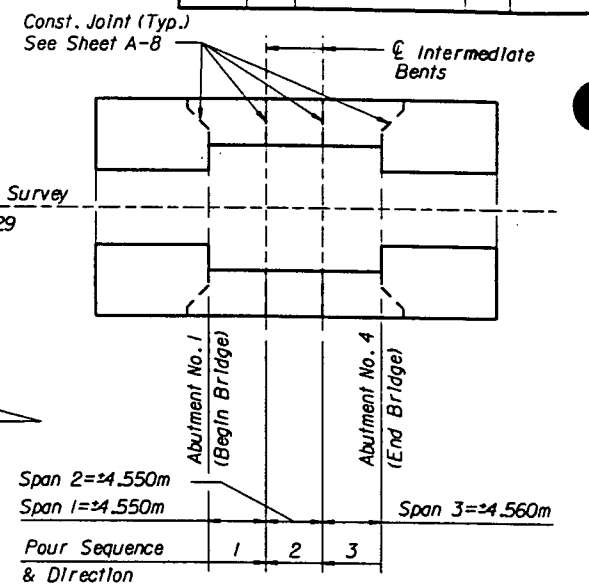
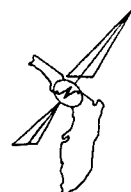
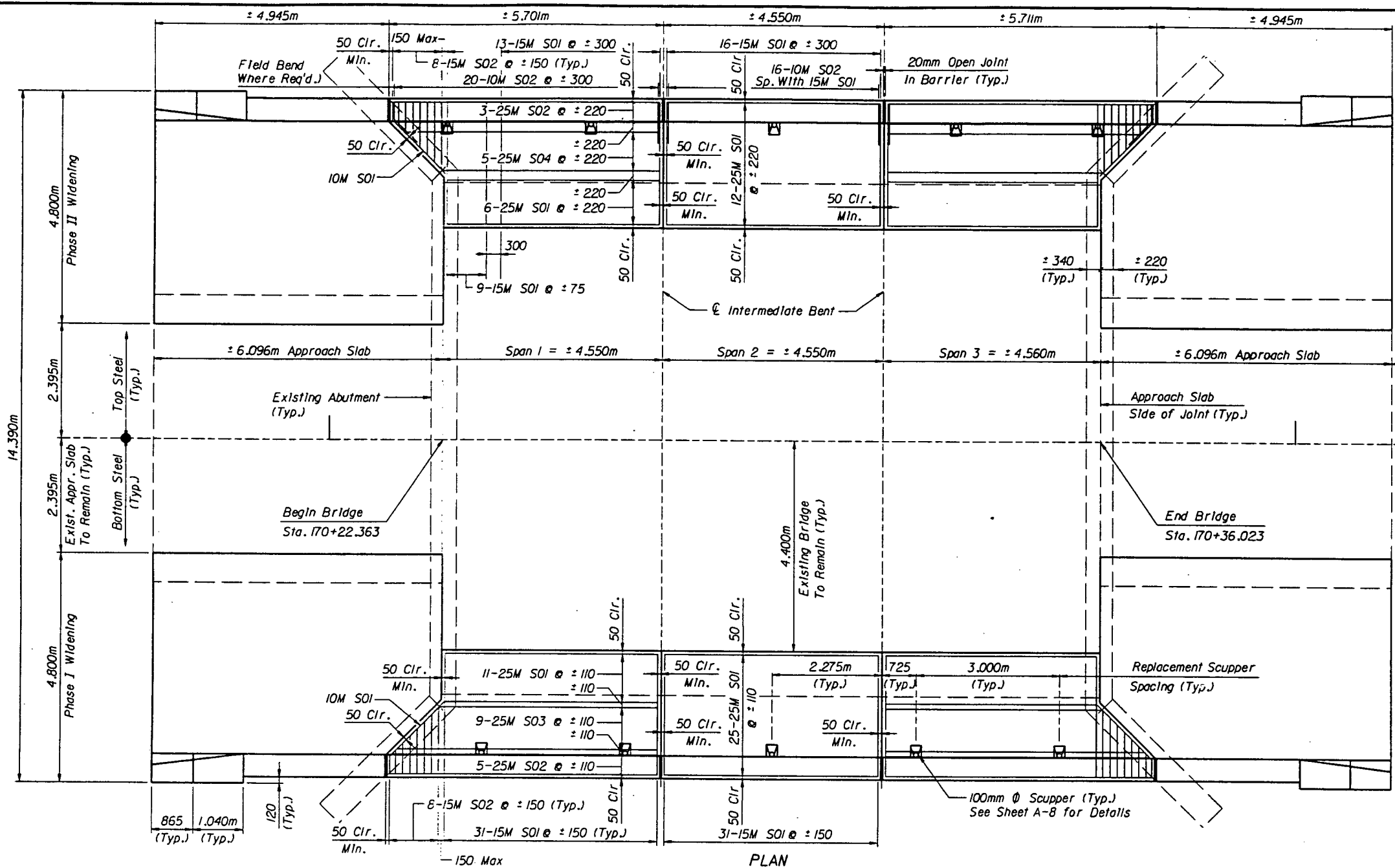
FLORIDA DEPARTMENT OF TRANSPORTATION
 STRUCTURES DESIGN OFFICE

ROAD NO.	COUNTY	PROJECT NO.
SR-29	GLADES	05090-3511

SHEET TITLE: INTERMEDIATE BENT MODIFICATIONS

PROJECT NAME: S.R. 29 BRIDGE OVER YORK BRANCH, BRIDGE NO. 050032

Drawing No. _____
 Index No. _____

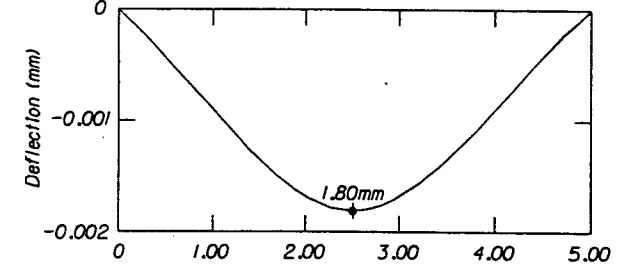


Direction of Stationing

Limit of Existing Approach Slab (Typ.)

Const. Survey S.R. 29

3-SPAN SUPERSTRUCTURE POURING DIAGRAM



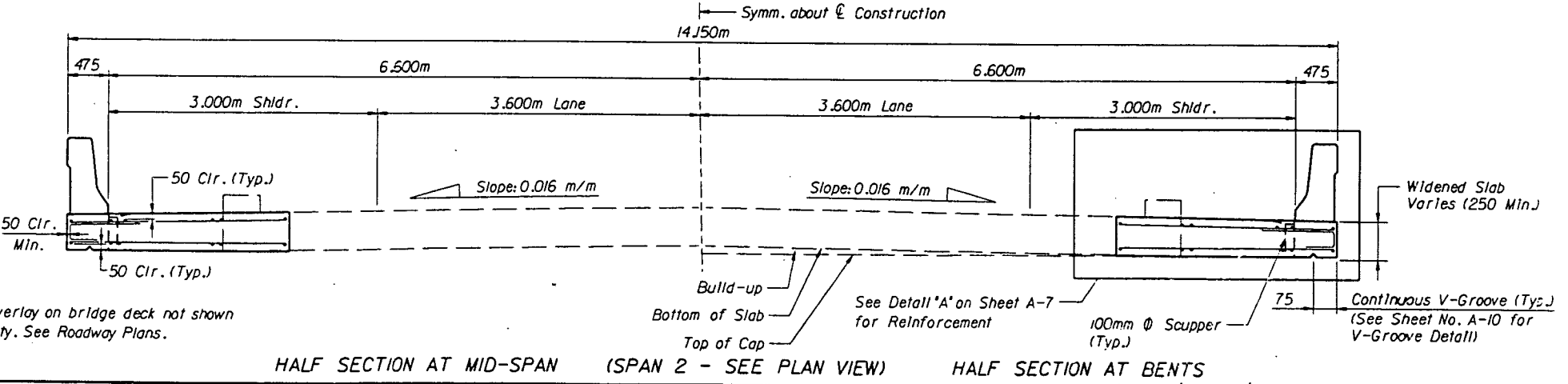
DEAD LOAD DEFLECTION DIAGRAM

NOTES:

- Set bars in slab for Barrier as detailed on Barrier Sheet.
- Pouring Sequence: After pouring the first unit, succeeding pours shall begin at the end away from and proceed toward the previously placed unit. (The first unit may be at either end of bridge)
- No unit shall be placed adjacent to a previously placed unit that is not a minimum of 72 hours old.
- The contractor shall camber the forms to compensate for the combined effect of the deflection of the forms and the dead load deflection of the slab.
- The contractor may submit for approval a revised casting sequence. The submittal shall include structural analysis by the specialty Engineer reflecting the new casting sequence and its effect on the Camber Diagram. The revision shall be in conformance with Chapter 19 of the Structures Design Guidelines.

* ESTIMATED QUANTITIES		
ITEM	UNIT	QUANTITY
Class IV Concrete - Superstructure	m ³	21.58
Reinforcing Steel (Superstructure)	kg	5653
Concrete Traffic Railing Barrier **	m	31.9

* Quantities are for the complete Superstructure.



NOTE: Asphalt Overlay on bridge deck not shown for clarity. See Roadway Plans.

HALF SECTION AT MID-SPAN (SPAN 2 - SEE PLAN VIEW) HALF SECTION AT BENTS

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REVISIONS					
Date	By	Description	Date	By	Description

ENGINEER OF RECORD:

CORZO CASTELLA CARBALLO THOMPSON SALMAN, P.A.
 ENGINEERS-ARCHITECTS-PLANNERS
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 MIAMI (305) 445-2900 FLORIDA (800) 448-0222
 FL REGISTRATIONS: EB8005822 AAC002142

FLORIDA DEPARTMENT OF TRANSPORTATION
 STRUCTURES DESIGN OFFICE

ROAD NO. SR-29 COUNTY GLADES PROJECT NO. 05090-3511

SHEET TITLE: 3-SPAN SUPERSTRUCTURE

PROJECT NAME: S.R. 29 BRIDGE OVER YORK BRANCH, BRIDGE NO. 050032

Drawing No. Index No.

MARK	METERS	NO	TYP	STY	METERS										N	Ø	
					SIZE	DES	LENGTH	BARS	BAR	A	G	B	C	D			E
LOCATION ABUTMENTS NOS. 1 AND 4 (PER SIDE)					NO. REQUIRED = 4												
15M	E01	0.820	2	12			0.500	0.320									45
15M	E02	0.880	1	12			0.500	0.380									45
15M	E03	0.945	2	12			0.500	0.445									45
15M	E04	1.670	11	4	4	4	0.335	0.360									
15M	E05	0.960	7	11			0.360	0.300	0.300								
15M	E06	0.935	1	1			0.935										
15M	E07	0.635	1	1			0.635										
15M	E08	1.050	1	11			0.450	0.300	0.300								
15M	E09	1.030	2	11			0.360	0.335	0.335								
20M	E01	0.460	6	1			0.460										
25M	E01	3.000	4	1			3.000										
25M	E02	3.598	2	40			0.135	0.345	1.210	0.350	0.795	3.000					2
LOCATION INTERMEDIATE BENT NOS. 2 AND 3 (PER 1 BENT)					NO. REQUIRED = 2												
15M	B01	2.870	12	4	4	4	0.575	0.720									
15M	B02	2.030	2	5			0.575	0.720	0.080	0.080							
15M	B03	0.760	12	1			0.760										
25M	B01	1.380	22	1			1.380										
LOCATION INTERMEDIATE BENT NO. 2 (PER SIDE)					NO. REQUIRED = 2												
20M	B01	0.460	2	1			0.460										
LOCATION SUPERSTRUCTURE					NO. REQUIRED = 1												
10M	S01	1.625	8	1			1.625										
10M	S02	1.080	112	11			0.130	0.200	0.750								
15M	S01	2.575	306	1			2.575										
BARS 15M S02 VARY IN 8 SETS OF 8 BARS EACH IN INCREMENTS OF 0.150 M																	
15M	S02	VARY	64	1			1.480										
							0.955										
25M	S01	4.380	142	1			4.380										
25M	S02	5.530	32	1			5.530										
BARS 25M S03 VARY IN 9 SETS OF 4 BARS EACH IN INCREMENTS OF 0.110M																	
25M	S03	VARY	36	1			5.395										
							4.955										
BARS 25M S04 VARY IN 5 SETS OF 4 BARS EACH IN INCREMENTS OF 0.220M																	
25M	S04	VARY	20	1			5.395										
							4.955										

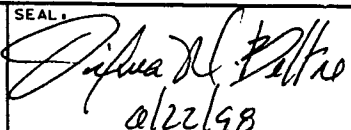
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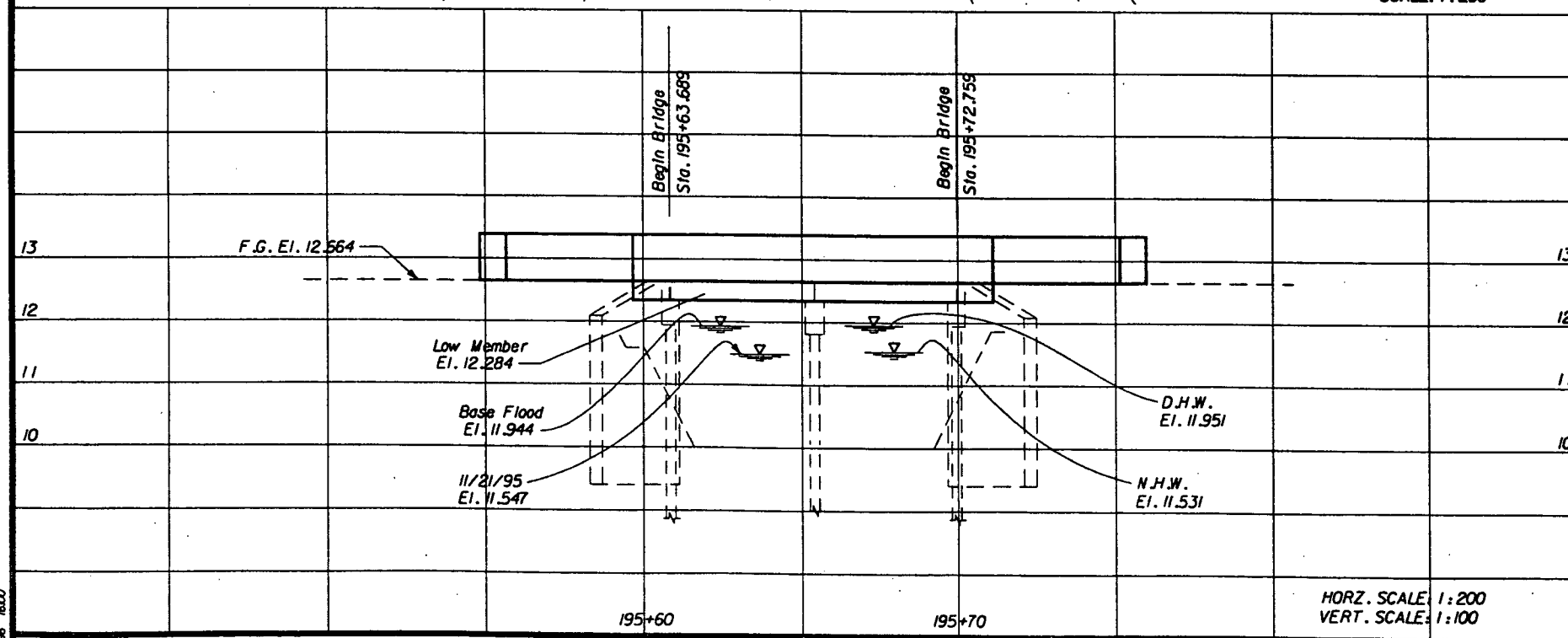
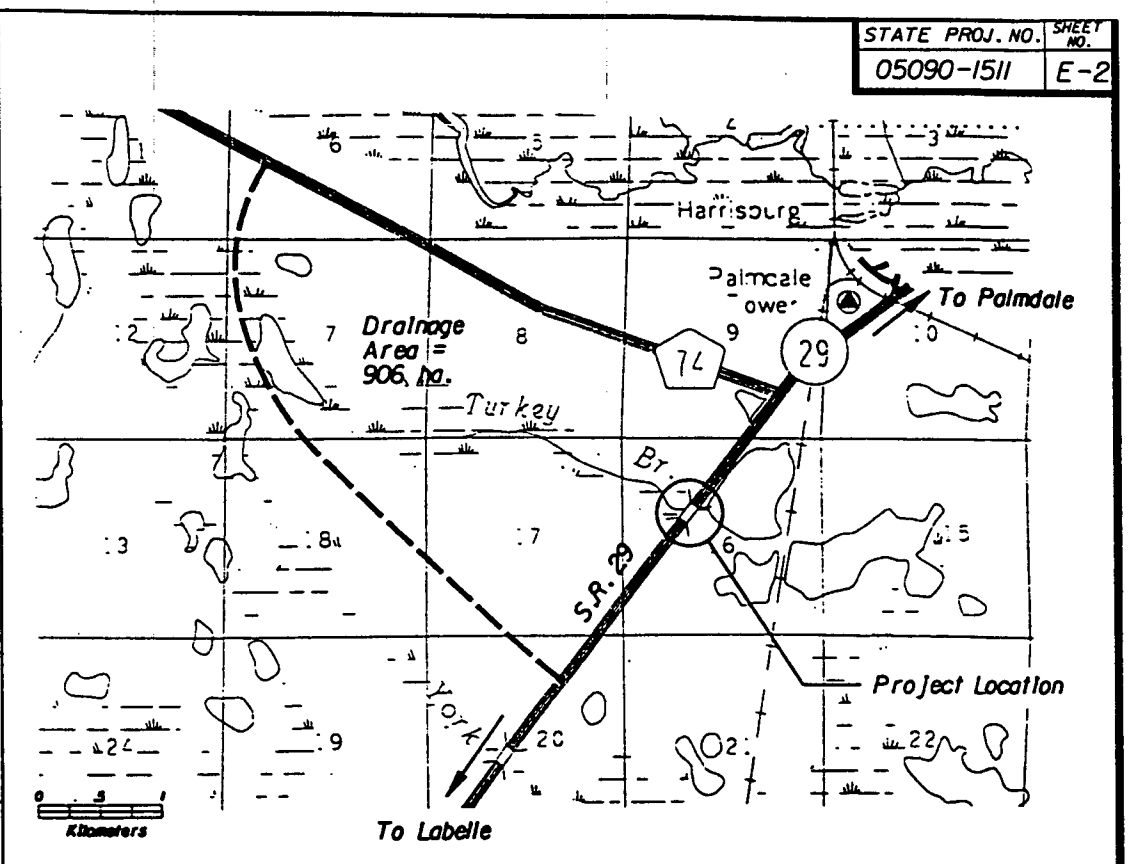
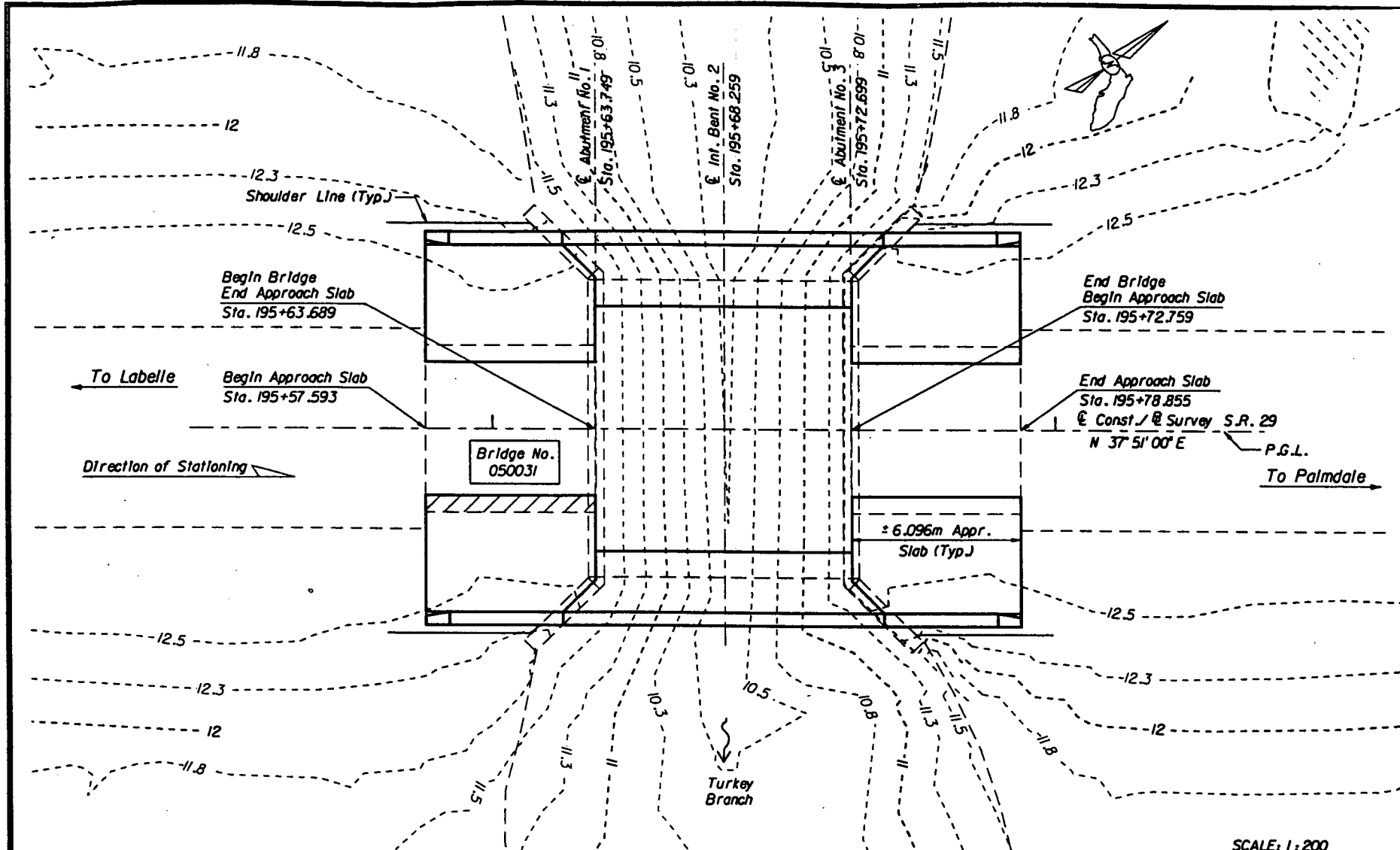
NOTE:
1. All Reinforcing Steel shown on this sheet shall be ASTM A615M-92, Grade 420.

I:\NOTIT_01\work\050032\reinbar.dgn

Brett Loeffler

22 JUN 98 18:40:26

REVISIONS						ENGINEER OF RECORD:		SEAL:		FLORIDA DEPARTMENT OF TRANSPORTATION		SHEET TITLE:		
DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION	NAMES	DATES	SIGNATURE		ROAD NO.	COUNTY	PROJECT NO.	DRAWING NO.	
						CORZO CASTELLA CARBALLO THOMPSON SALMAN, P.A.	8-97			SR-29	GLADES	05090-3511	REINFORCING BAR LIST	
					DESIGNED BY	8-97	STRUCTURES DESIGN OFFICE						PROJECT NAME:	
					CHECKED BY	8-97	CORZO CASTELLA CARBALLO THOMPSON SALMAN						S.R. 29 BRIDGE OVER	
					APPROVED BY	8-97	FL REGISTRATIONS: EB8895022 AAC802142						YORK BRANCH, BRIDGE NO. 050032	



SCALE: 1:200

(REFERENCE) FOUNDATION	EXISTING STRUCTURES				ASSUMED CONFIGURATION
	(1)	(2)	(3)	(4)	
OVERALL LENGTH	9.070	N/A	N/A	N/A	9.070
SPAN LENGTH	± 4.572				± 4.572
TYPE CONSTRUCTION	Flat Slab				Flat Slab
AREA OF OPENING @ H.W.	± 14.307				± 14.307
ROADWAY WIDTH	± 10.668				14.350
ELEV. LOW MEMBER	12.284				12.284

HYDRAULIC DESIGN DATA
NOTE: The hydraulic data is shown for informational purposes only to indicate the flood discharges and water surface elevations which may be anticipated in any given year. This data was generated using highly variable factors determined by a study of the watershed. Many judgements and assumptions are required to establish these factors. The resultant hydraulic data is sensitive to changes, particularly antecedent conditions, urbanization, channelization and land use. Users of this data are cautioned against the assumption of precision which cannot be obtained.

DEFINITIONS:
Design Flood: The flood utilized to assure a desired level of hydraulic performance.
Base Flood: The flood having a 1% chance of being exceeded in any year. (100 Year Frequency)
Overtopping Flood: The flood which causes flow over the highway, over a watershed divide or thru emergency relief structures.
Greatest Flood: The most severe flood which can be predicted where overtopping is not practicable.

WATER SURFACE ELEVATIONS: N.H.W. (Non-Tidal) 11.531 M.H.W. N/A M.L.W. N/A

FLOOD DATA:	MAX. EVENT OF RECORD	DESIGN FLOOD	BASE FLOOD	□ OVERTOPPING FLOOD
STAGE ELEV. NGVD (M)	Unknown	11.951	11.994	12.082
DISCHARGE (CM ³ /M)		447	518	691
AVERAGE VELOCITY (M/S)		0.521	0.594	0.771
EXCEEDANCE PROB. (%)		2%	1%	0.2%
FREQUENCY (YR.)		50	100	500

- HYDRAULIC RECOMMENDATIONS**
- BEGIN BRIDGE STATION 195+63.689 END BRIDGE STATION 195+72.759 SKEW ANGLE 0°
 - CHANNEL SECTION @ STATION 195+66.199 BOTTOM WIDTH 8.534 ELEV. 10.119 SIDE SLOPE 0
 - LIMITS OF CHANNEL EXCAVATION: RT. N/A LT. N/A
 - CLEARANCE: NAVIGATION: HORIZ. N/A VERT. N/A ABOVE EL. N/A DRIFT: HORIZ. 3.962 VERT. 0.333 ABOVE EL. 11.951
 - SCOUR PREDICTION: 100 YEAR DESIGN SCOUR EL. 7.95 DEPTH = 7.12
500 YEAR SCOUR EL. 7.19 DEPTH = 9.61
 - SLOPE PROTECTION: None
 - DECK DRAINAGE: Runoff will sheet flow off bridge into existing roadway ditches
 - OTHER: _____

REMARKS: _____

HORIZ. SCALE: 1:200
VERT. SCALE: 1:100

DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION

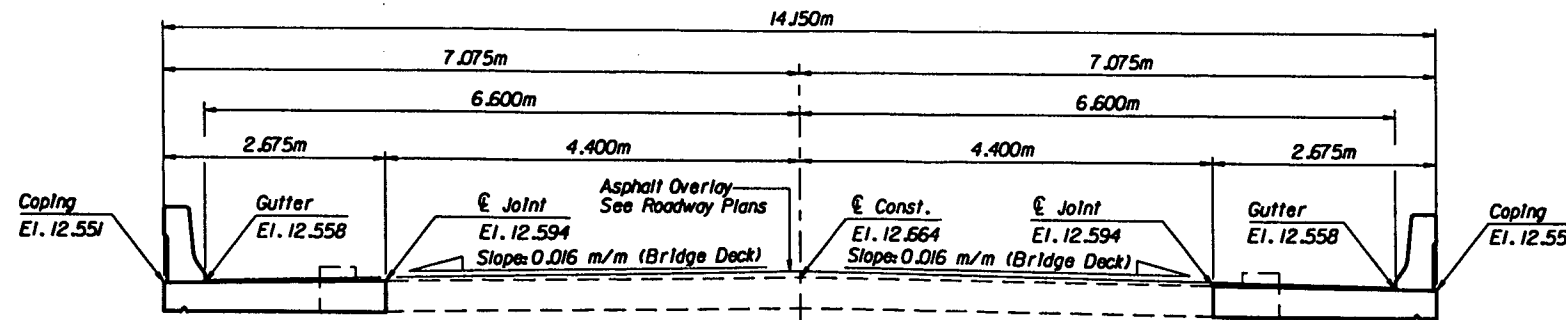
JMI ENGINEERS, INC.
1424 Piedmont Drive East
Tallahassee, Florida 32312
Tel: 904-385-1450 Fax: 904-385-3145

FLORIDA DEPARTMENT OF
TRANSPORTATION

BRIDGE HYDRAULIC RECOMMENDATIONS
S.R. 29 BRIDGE NO. 050031

FILE: e:\cadd\04\05230\p04.dwg
DATE: 16-Dec-95 16:00

FED. ROAD DIST. NO.	STATE	PROJECT NO.	FISCAL YEAR	SHEET NO.
3	FLA.			E-4



SECTION THRU SUPERSTRUCTURE SHOWING FINISH DECK ELEVATIONS

Bent	Pile Size (mm)	Design Load (kN)	Min. Tip Elev. (m.MGVD)	Scour Elev. (m.MGVD)	Total Scour Resistance* (kN)	Total Down Drag (kN)	Reqd. Perform to Elev. (m)	Reqd. Jet to Elev. (m)	Net Scour Resistance** (kN)	Test Pile Length (m)
2	455	280	+2.0	+7.9	300	N.A.	N.A.	N.A.	300	N.A.

RDR = (Design Load x FS) + Net Scour Resistance + Total Downdrag where FS is the appropriate safety factor in accordance with the Standard Specifications A455-3J2.2

NOTES:

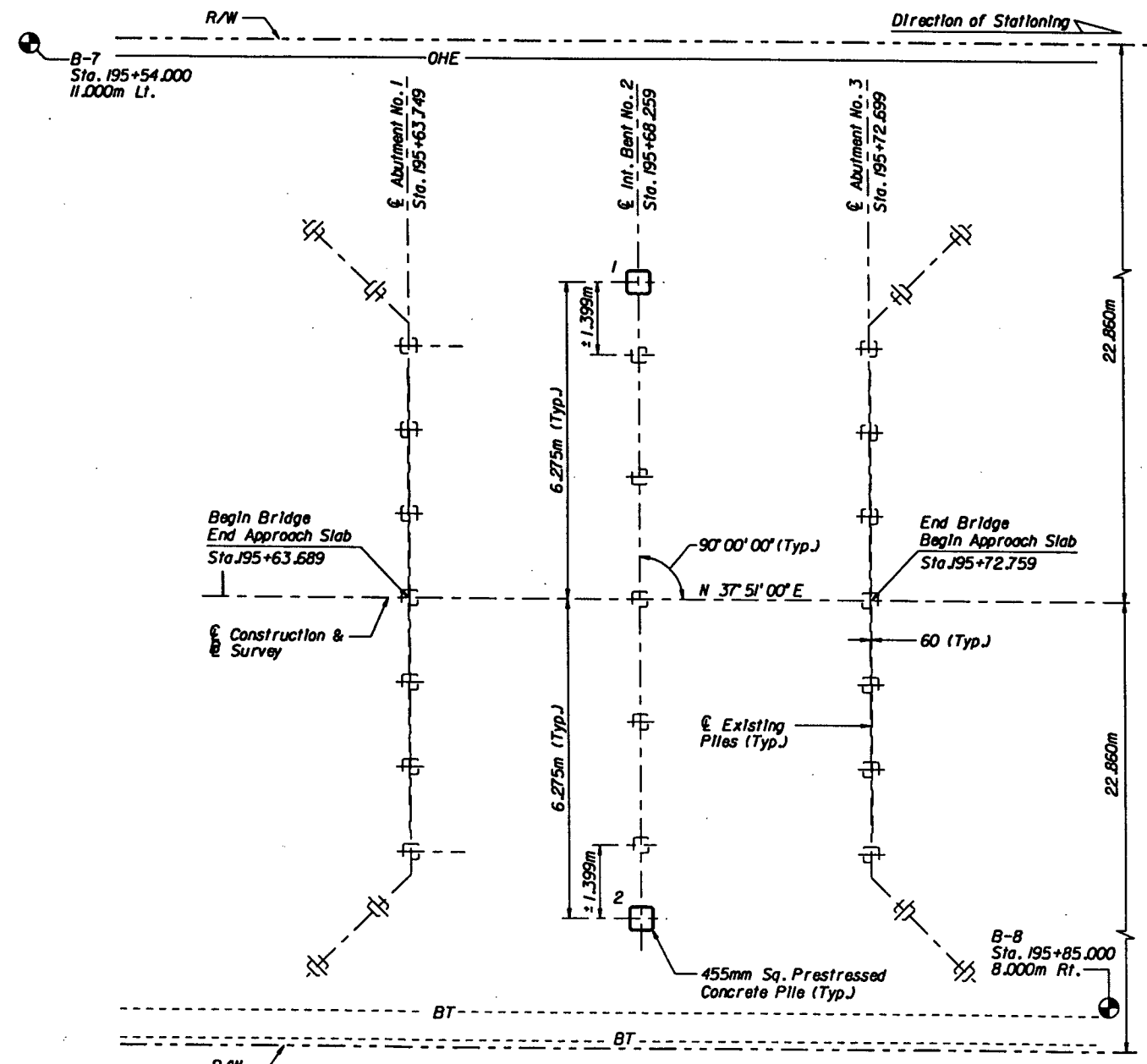
- * Total side resistance from ground line to the scour elevation.
- ** Net side friction resistance from the required performed or jetting elevation to the scour elevation.
- RDR is the Required Driving Resistance. All piles shall be driven to the design load times the appropriate factor of safety in accordance with Section A455-3J2.2 of the Standard Specifications plus the total downdrag and net scour resistance.
- Pile driving criteria will be established using the Wave Equation Method by the District Geotechnical Office.
- If jetting or performing elevations differ from those on the table, the engineer shall be responsible for determination of the required driving resistance.
- Scour has been considered in the design with scour elevations shown in the table.
- The minimum tip elevation shown is required for lateral stability. Under no circumstance shall the pile be installed above the minimum tip elevation shown in the table.
- Recommended Production Pile Lengths are 17.000m.

LEGEND:

- Denotes 455mm Sq. Prestressed Concrete Piles
- [] Denotes 305mm Sq. Concrete Existing Piles

GENERAL NOTES:

- All New Piles are 455mm Sq. Prestressed Concrete Piles.
- All New Piles are Plumb.
- For the Pile Cutoff Elevations, see Substructure sheets.
- All existing piles are to remain.



FOUNDATION LAYOUT

23 JUN 98 12:00:26 \$SOURCE\$ I:\proj\ecis\9523-01\drawings\working\050031\sr\02.dwg

Date	By	Description	Date	By	Description

Name	Date
Drawn by ISW	8-97
Checked by HSH	8-97
Designed by HSH	8-97
Checked by JR	8-97
Approved by J. Registe, P.E.	

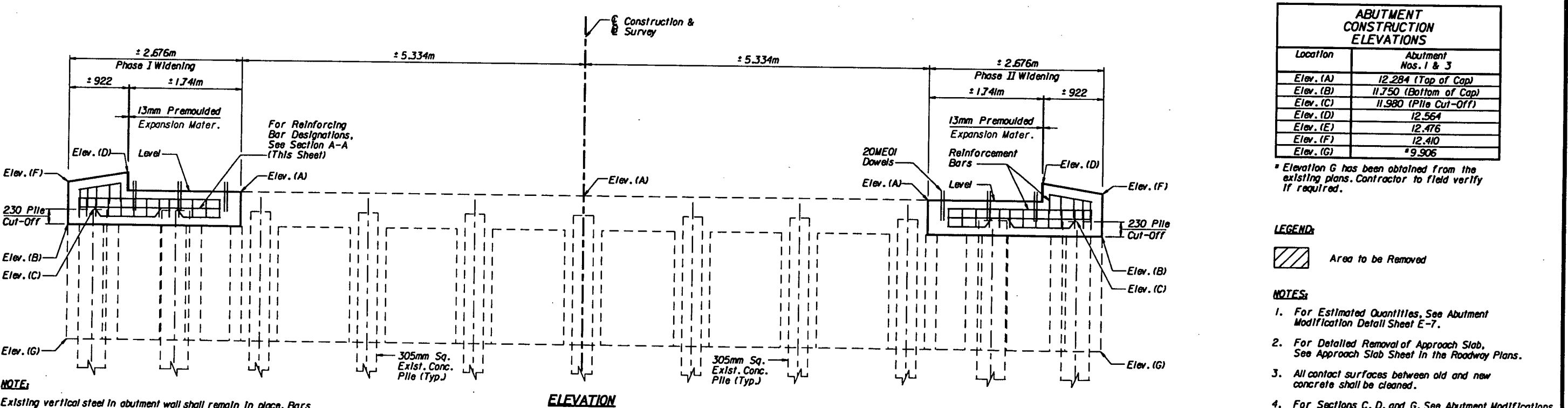
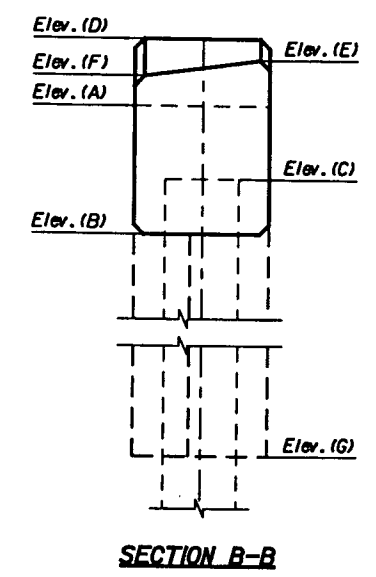
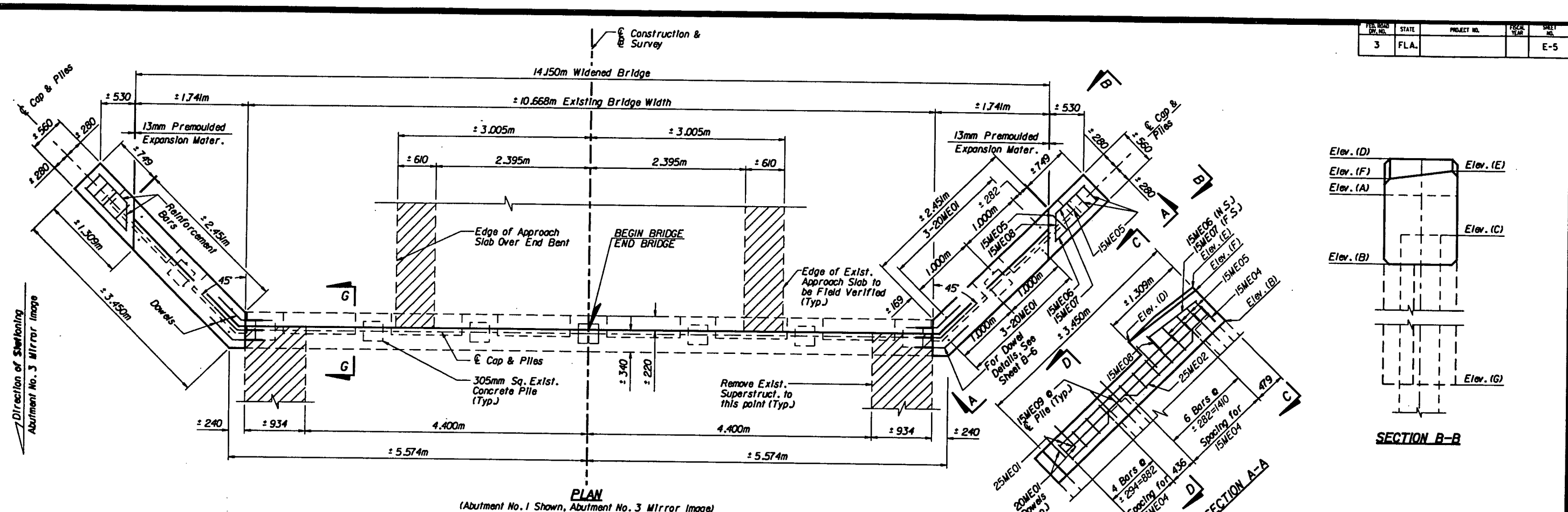
ENGINEER OF RECORD:
JMI ENGINEERS, INC.
 900 Winderley Place, Ste. 148
 Maitland, Florida 32751
 Tel: 407-875-6500 Fax: 407-875-0560



SEAL
 6/24/98

FLORIDA DEPARTMENT OF TRANSPORTATION STRUCTURES DESIGN OFFICE		
ROAD NO. SR-29	COUNTY GLADES	PROJECT NO. 05090-3511

SHEET TITLE: FOUNDATION LAYOUT & FINISH GRADE ELEVATIONS		Drawing No.
PROJECT NAME: S.R. 29 BRIDGE OVER TURKEY BRANCH, BRIDGE NO. 050031		Index No.



ABUTMENT CONSTRUCTION ELEVATIONS	
Location	Abutment Nos. 1 & 3
Elev. (A)	12.284 (Top of Cap)
Elev. (B)	11.750 (Bottom of Cap)
Elev. (C)	11.980 (Pile Cut-Off)
Elev. (D)	12.564
Elev. (E)	12.476
Elev. (F)	12.410
Elev. (G)	*9.906

* Elevation G has been obtained from the existing plans. Contractor to field verify if required.

LEGEND:
 Area to be Removed

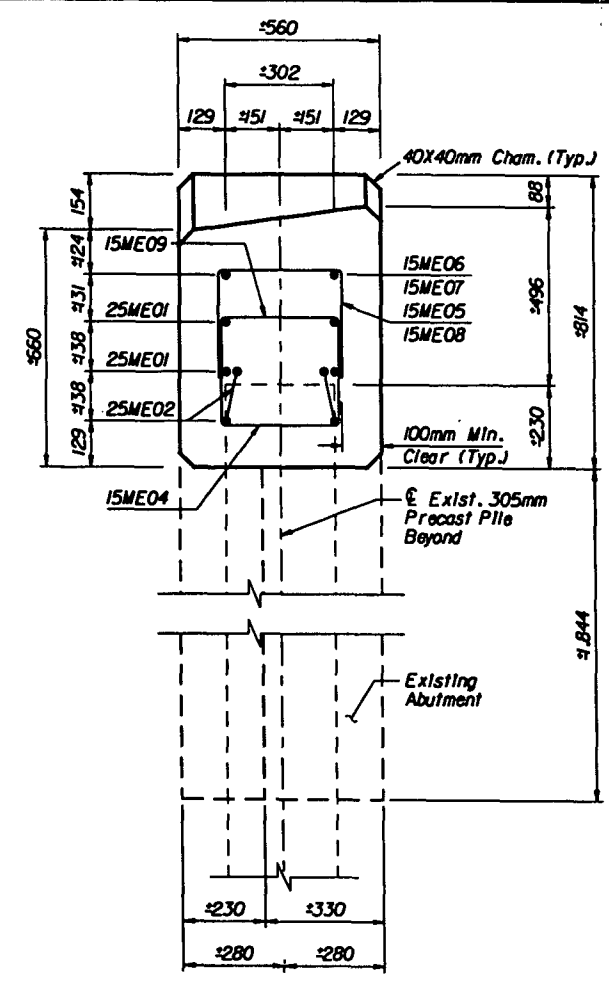
- NOTES:**
- For Estimated Quantities, See Abutment Modification Detail Sheet E-7.
 - For Detailed Removal of Approach Slab, See Approach Slab Sheet in the Roadway Plans.
 - All contact surfaces between old and new concrete shall be cleaned.
 - For Sections C, D, and G, See Abutment Modifications Detail Sheet E-6.

NOTE:
Existing vertical steel in abutment wall shall remain in place. Bars shall be cleaned and embedded in proposed portion of cap. Where necessary existing bars shall be cut to provide 100mm minimum clearance.

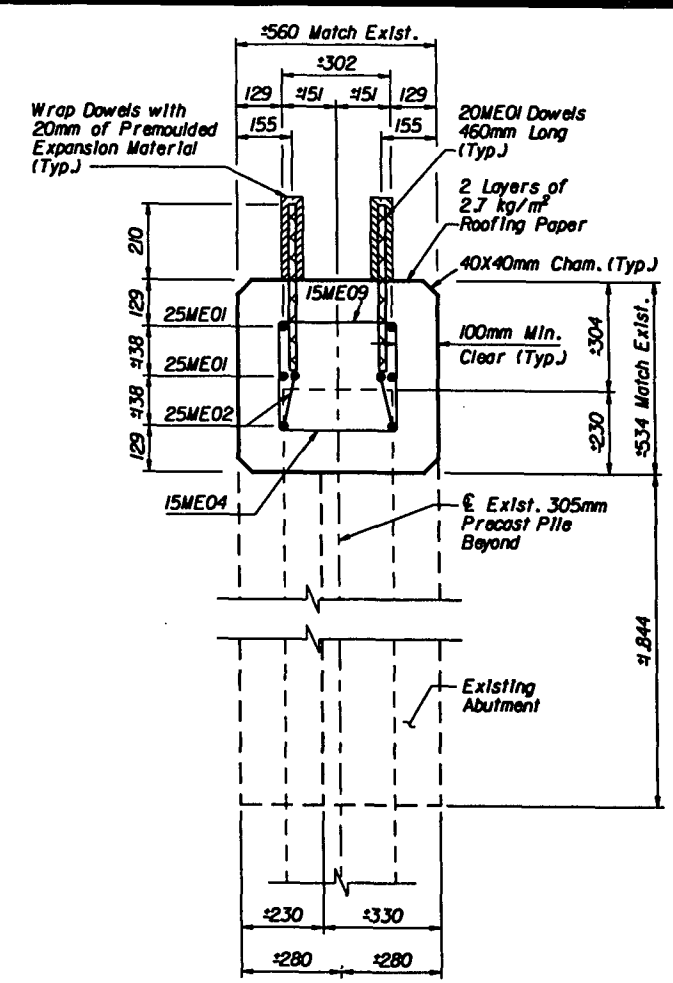
REVISIONS				Drawn by ISW 8-97 Checked by HSH 8-97 Designed by HSH 8-97 Checked by JR 8-97 Approved by J. Registe, P.E.		ENGINEER OF RECORD: JMI ENGINEERS, INC. 900 Winderley Place, Ste. 148 Maitland, Florida 32751 Tel: 407-875-5550 Fax: 407-875-0560		LOGO: 		SEAL: 		FLORIDA DEPARTMENT OF TRANSPORTATION STRUCTURES DESIGN OFFICE		SHEET TITLE: ABUTMENT MODIFICATIONS		Drawing No.	
Date By Description Date By Description				ROAD NO. COUNTY PROJECT NO.		SR-29 GLADES 05090-3511		PROJECT NAME:		S.R. 29 BRIDGE OVER TURKEY BRANCH, BRIDGE NO. 050031		Index No.					

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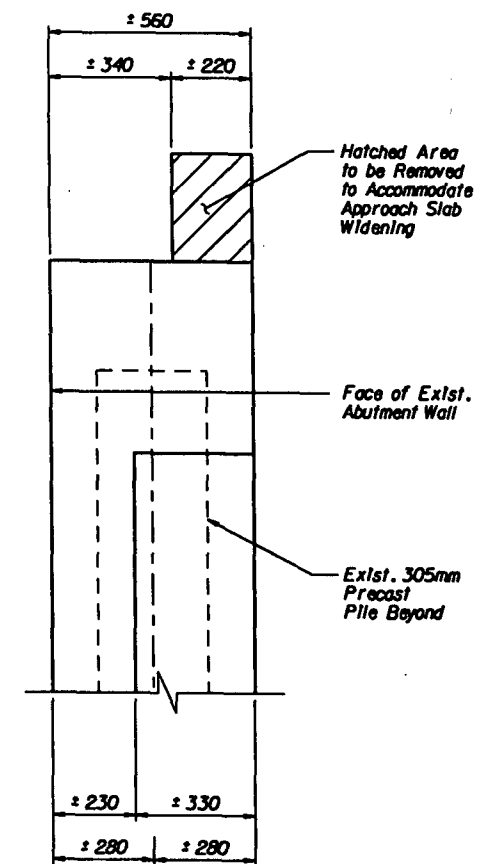
FED. ROAD DIST. NO.	STATE	PROJECT NO.	FISCAL YEAR	SHEET NO.
3	FLA.			E-6



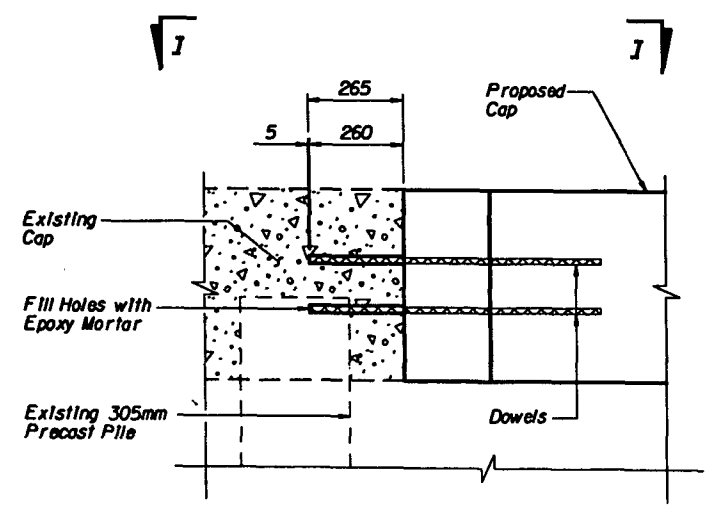
SECTION C-C



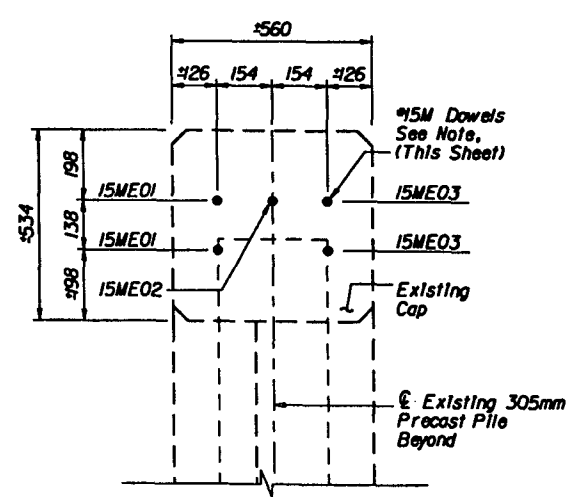
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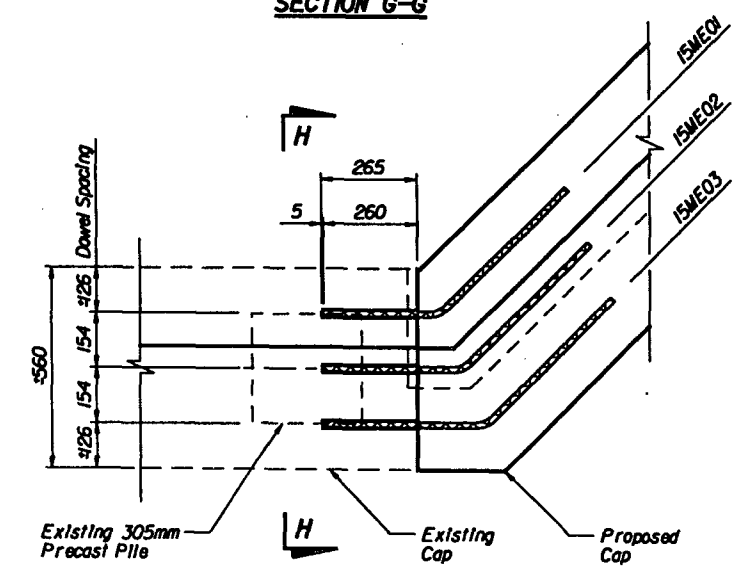
SECTION G-G



DOWEL DETAIL ELEVATION



SECTION H-H



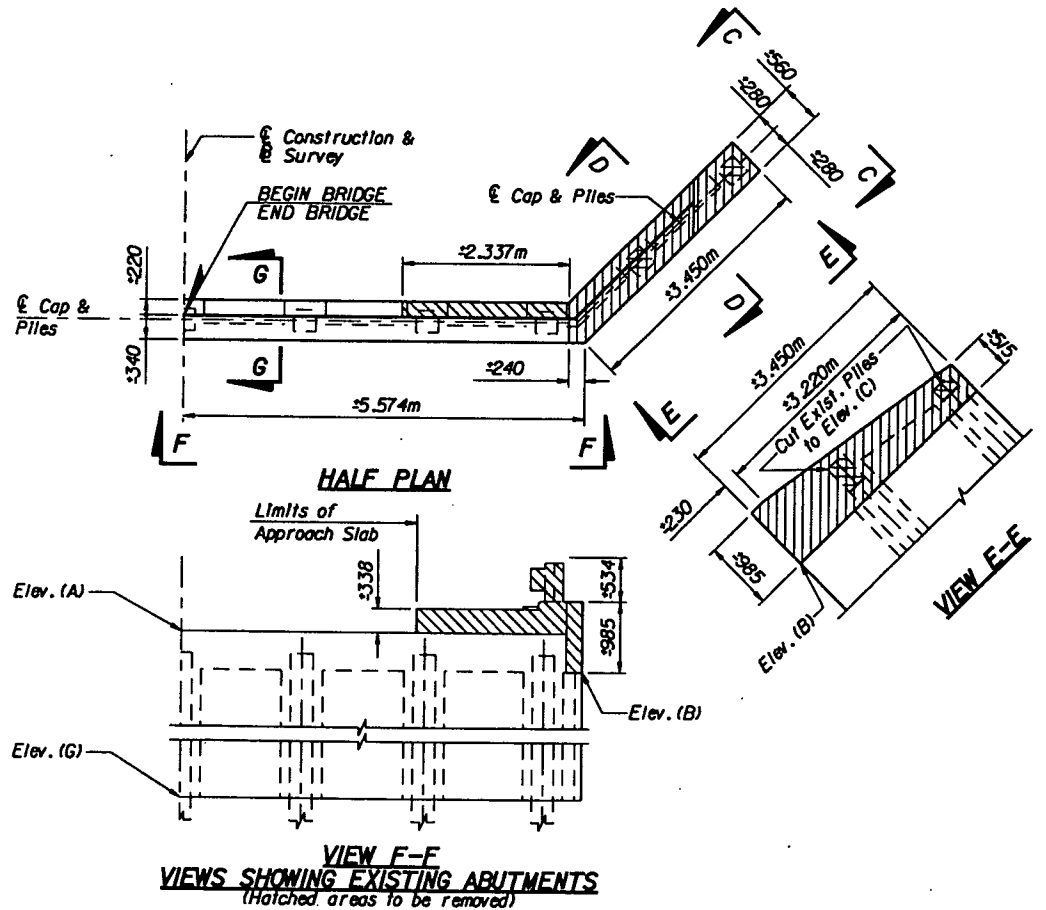
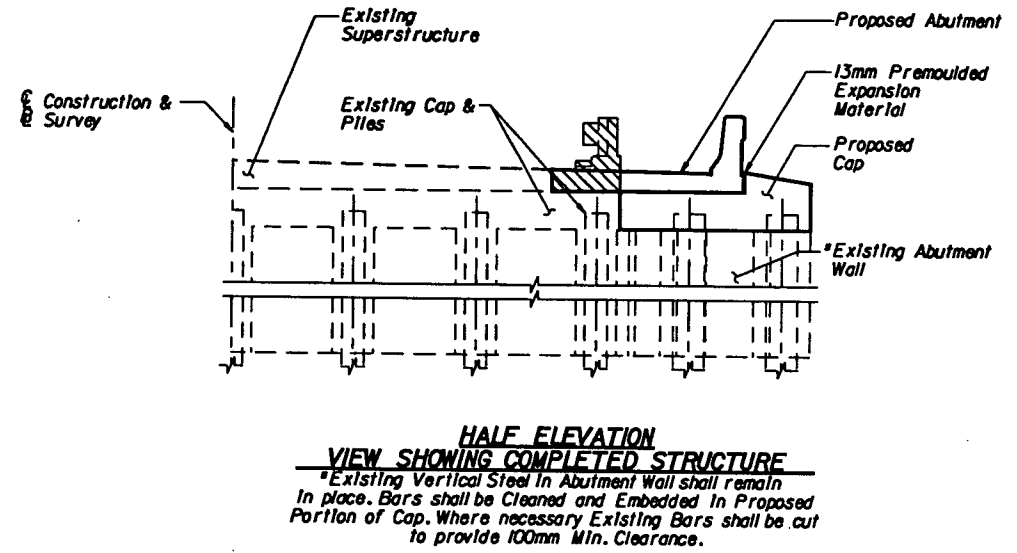
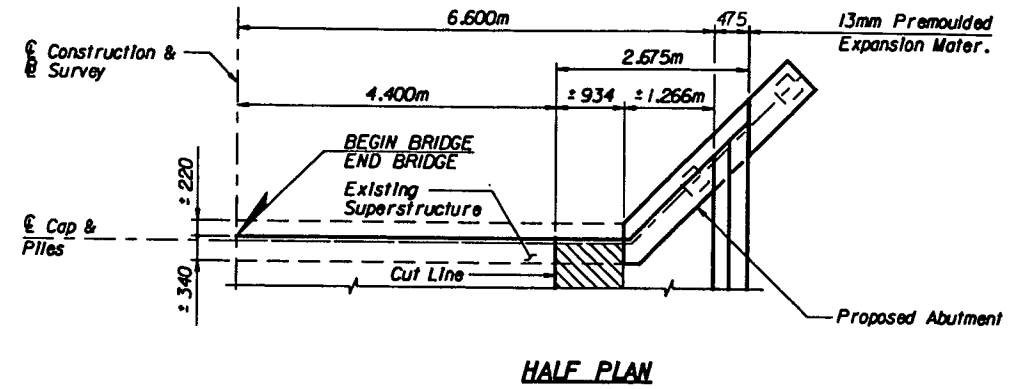
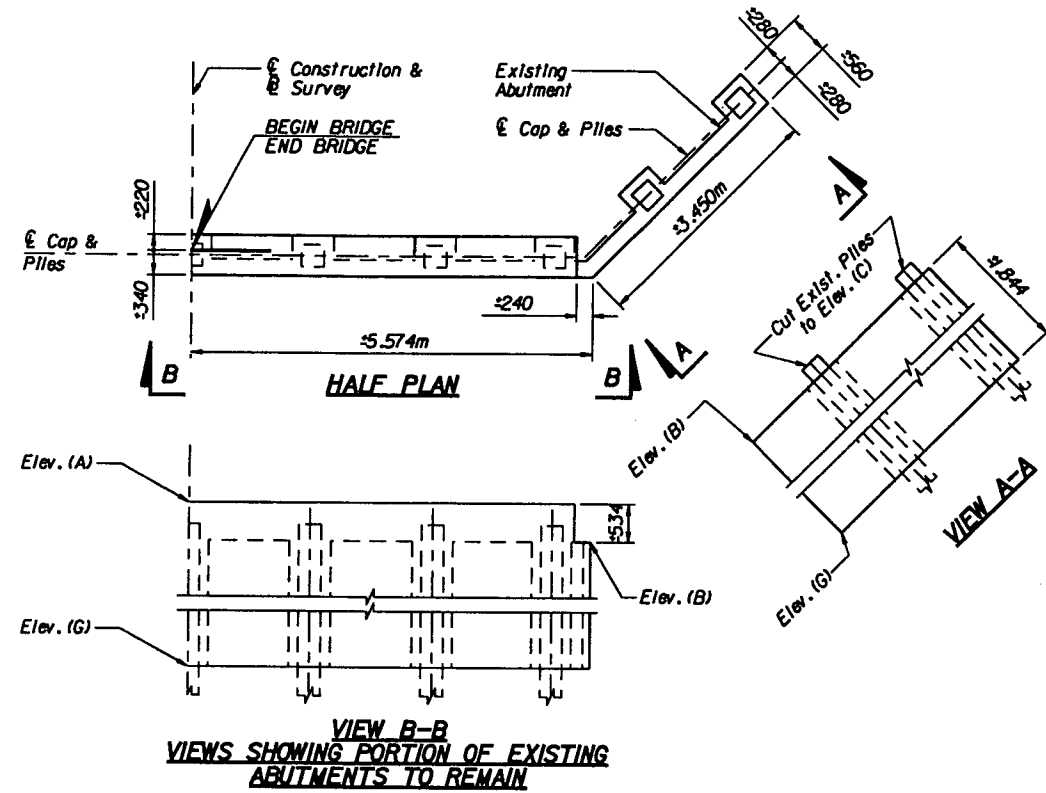
SECTION I-I PLAN

6-19mm ϕ x 265mm Deep Drilled Holes for Dowels. Set Dowels in Approved Epoxy or Capsule Adhesive. (Class II). See Dowel Details (This Sheet). See Notes on Sheet E-8.

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23 JUN 98 12:03:06

REVISIONS				Names		Dates		ENGINEER OF RECORD:		LOGO:		SEAL:		FLORIDA DEPARTMENT OF TRANSPORTATION		SHEET TITLE:	
Date	By	Description	Date	By	Description	Date	By	JMI ENGINEERS, INC.		STRUCTURES DESIGN OFFICE		SR-29		GLADES		ABUTMENT MODIFICATION DETAILS (1 OF 2)	
								900 Winderley Place, Ste. 148 Maitland, Florida 32751 Tel: 407-875-5550 Fax: 407-875-0560						PROJECT NO. 05090-3511		S.R. 29 BRIDGE OVER TURKEY BRANCH, BRIDGE NO. 050031	
								J. Registe, P.E.								Drawing No.	
																Index No.	



ESTIMATED QUANTITIES		
ITEM	UNIT	QUANTITY
Class IV Concrete (Substructure)	m ³	2.3
Reinforcing Steel (Substructure)	kg	228
455 mm Sq. Prestressed Concrete Piles	m	**

* Estimated Quantities are for one End Bent only.
 ** See Summary of Bridge Pay Items

NOTES:

1. For Table of Elevations, See Sheet E-5.
2. For Sections C, D, and G, See Abutment Modifications Detail Sheet E-6.

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23 JUN 98 13:05:46

REVISIONS

Date	By	Description	Date	By	Description

Drawn by	Names	Dates
ISW	ISW	8-97
Checked by	HSH	8-97
Designed by	HSH	8-97
Checked by	JR	8-97
Approved by	J. Registe, P.E.	

ENGINEER OF RECORD:
JMI ENGINEERS, INC.
 900 Winderley Place, Ste. 148
 Maitland, Florida 32751
 Tel 407-875-8550 Fax 407-875-0560

LOGO:

SEAL:

6/24/98

FLORIDA DEPARTMENT OF TRANSPORTATION
 STRUCTURES DESIGN OFFICE

ROAD NO. SR-29 COUNTY GLADES PROJECT NO. 05090-35/1

SHEET TITLE: **ABUTMENT MODIFICATION DETAILS (2 OF 2)**

PROJECT NAME: **S.R. 29 BRIDGE OVER TURKEY BRANCH, BRIDGE NO. 050031**

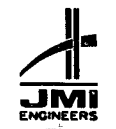
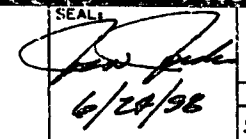
Drawing No.
 Index No.

MARK SIZE	DES	METERS			METERS											N	Ø		
		LENGTH	BARS	NO	BAR	A	G	B	C	D	E	F	H	J	K				
		LOCATION				ABUTMENTS NOS. 1 AND 3 (PER SIDE)											NO. REQUIRED = 4		
15M	E01	0.820	2	12			0.500	0.320										45	
15M	E02	0.880	1	12			0.500	0.380										45	
15M	E03	0.945	2	12			0.500	0.445										45	
15M	E04	1.670	11	4	4	4	0.335	0.360											
15M	E05	0.960	4	11			0.360	0.300	0.300										
15M	E06	0.935	1	1			0.935												
15M	E07	0.635	1	1			0.635												
15M	E08	1.050	1	11			0.450	0.300	0.300										
15M	E09	1.030	2	11			0.360	0.335	0.335										
20M	E01	0.460	6	1			0.460												
25M	E01	3.970	4	1			3.970												
25M	E02	3.598	2	40			0.135	0.345	1.545	0.340	0.795	3.970						2	
		LOCATION				INTERMEDIATE BENT NO. 2											NO. REQUIRED = 1		
15M	B01	2.870	12	4	4	4	0.575	0.720											
15M	B02	2.030	2	5			0.575	0.720	0.080	0.080									
15M	B03	0.760	12	1			0.760												
25M	B01	1.380	22	1			1.380												
		LOCATION				SUPERSTRUCTURE											NO. REQUIRED = 1		
10M	S01	1.625	8	1			1.625												
10M	S02	1.080	80	11			0.130	0.200	0.750										
15M	S01	2.575	212	1			2.575												
		BARS 15M S02 VARY IN 8 SETS OF 8 BARS EACH IN INCREMENTS OF 0.150 M																	
15M	S02	VARY	64	1			1.480												
							0.955												
25M	S01	4.380	68	1			4.380												
25M	S02	5.530	32	1			5.530												
		BARS 25M S03 VARY IN 9 SETS OF 4 BARS EACH IN INCREMENTS OF 0.110M																	
25M	S03	VARY	36	1			5.395												
							4.955												
		BARS 25M S04 VARY IN 5 SETS OF 4 BARS EACH IN INCREMENTS OF 0.220M																	
25M	S04	VARY	20	1			5.395												
							4.955												

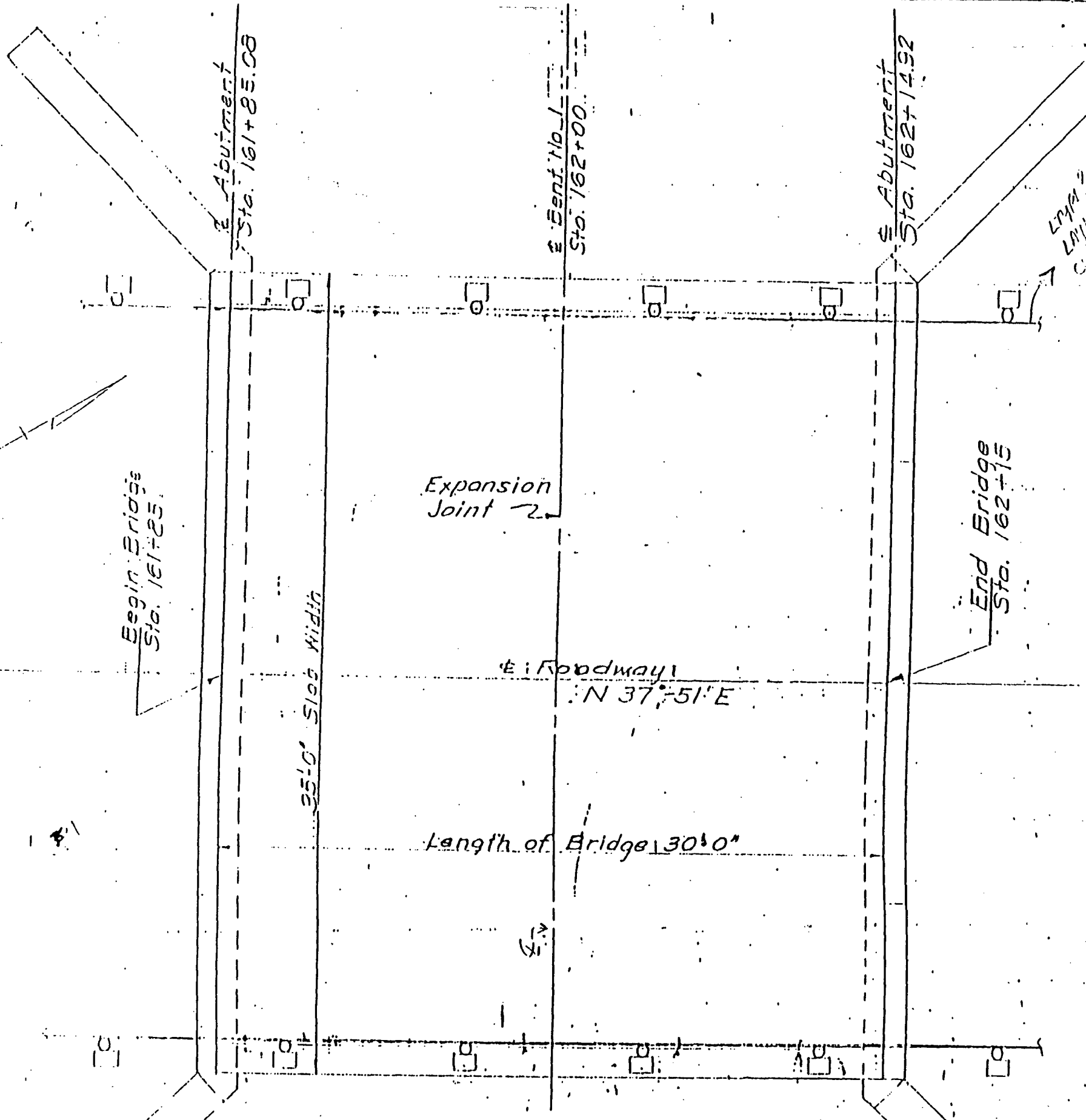
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NOTE:
1. All Reinforcing Steel shown on this sheet shall be ASTM A615m-92, Grade 420.

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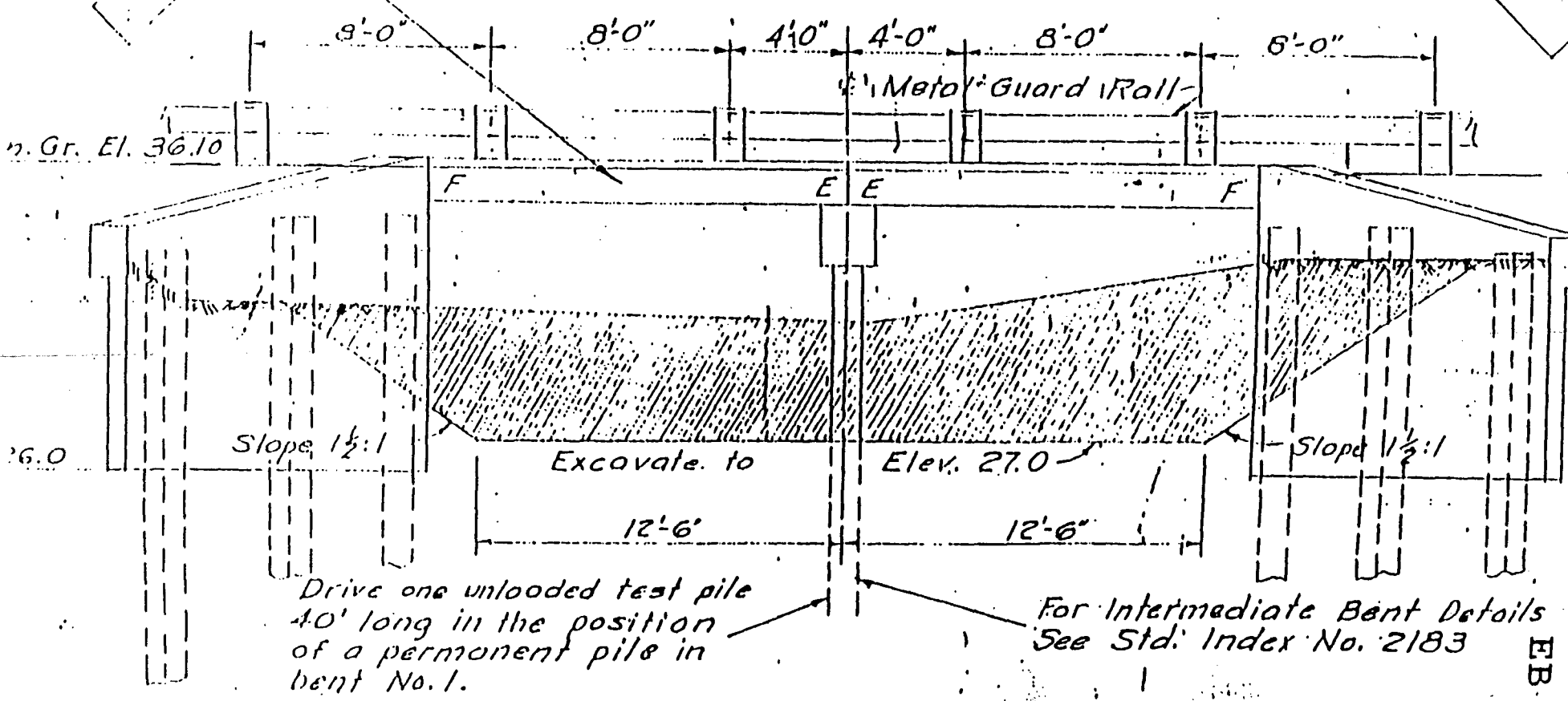
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Date	By	Description	Date	By	Description																		

BRIDGE NO 050941



PLAN

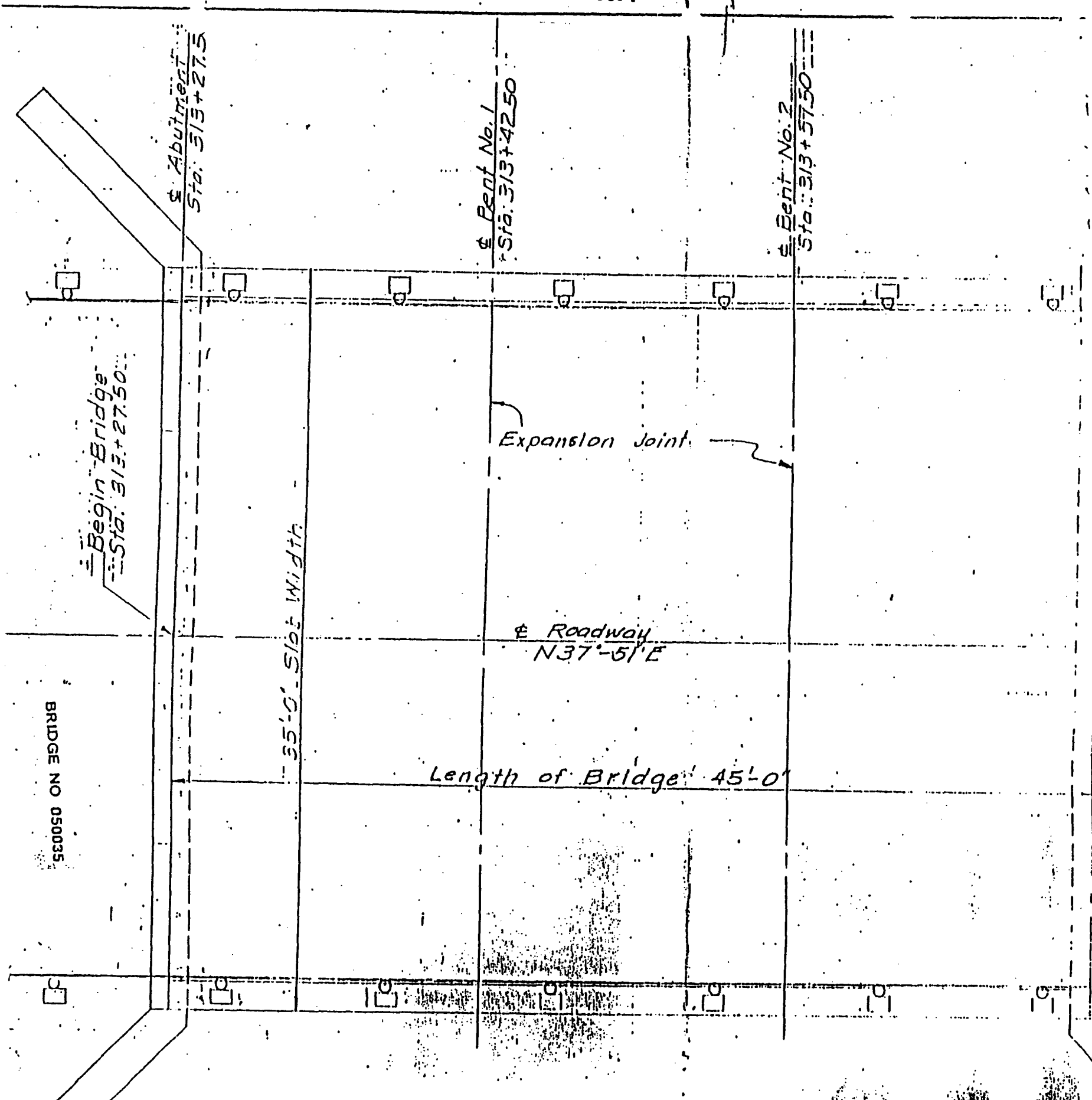
For Superstructure Details See Std. Index No. 2184.



Drive one unloaded test pile 40' long in the position of a permanent pile in bent No. 1.

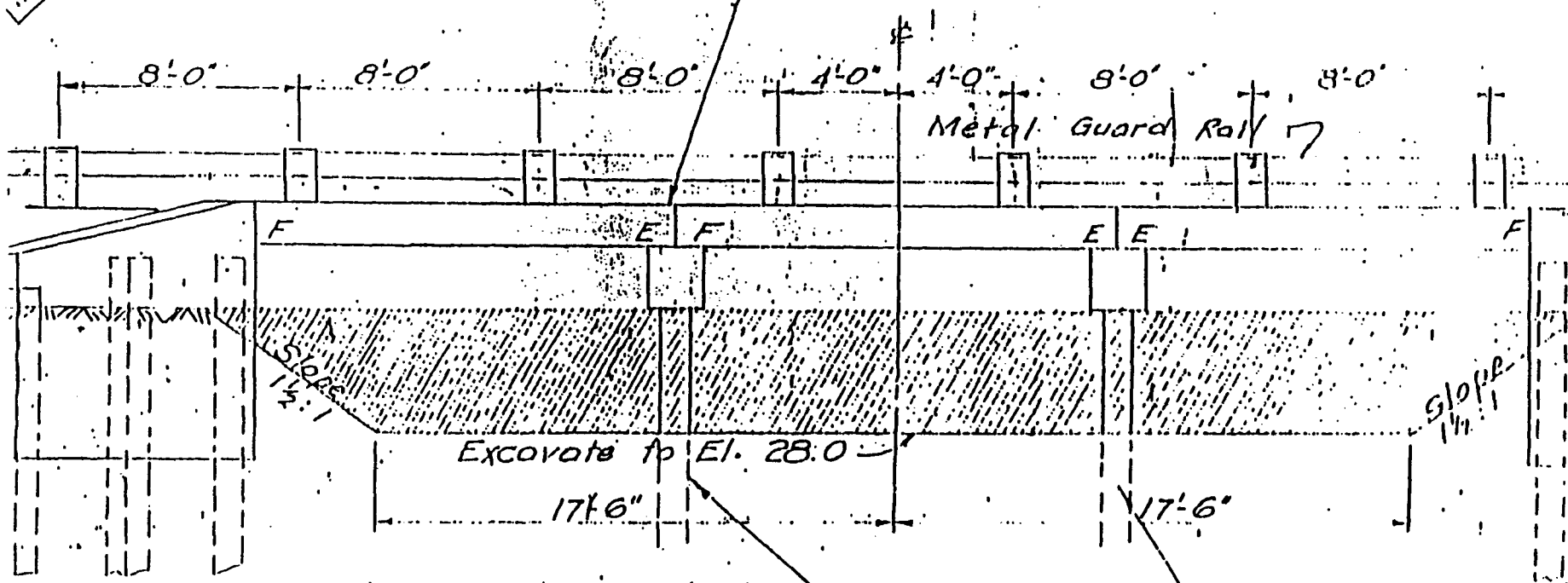
For Intermediate Bent Details See Std. Index No. 2183

EB



For Superstructure Details See Std. Index No. 2184

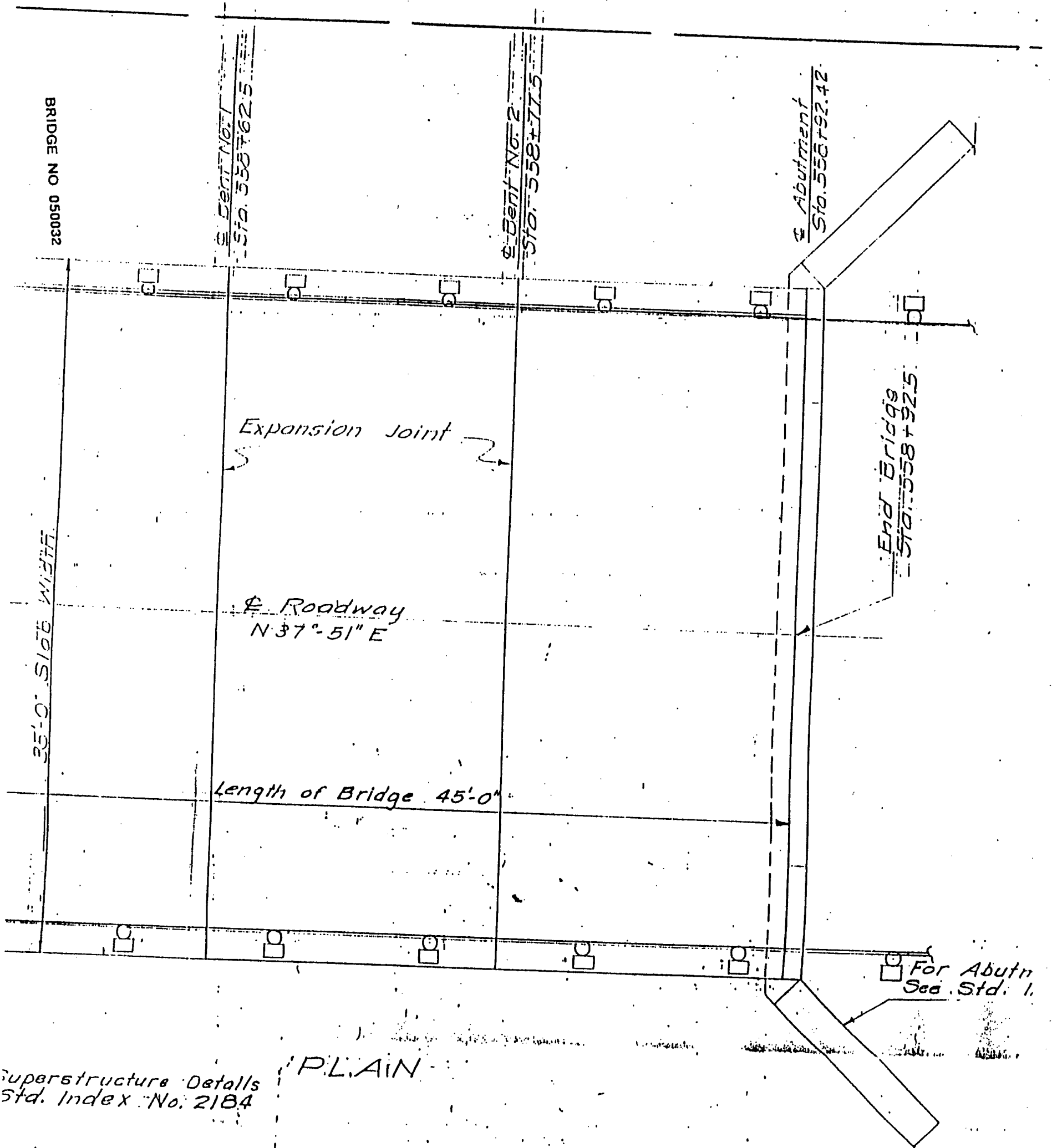
PLAN



Details No. 2187

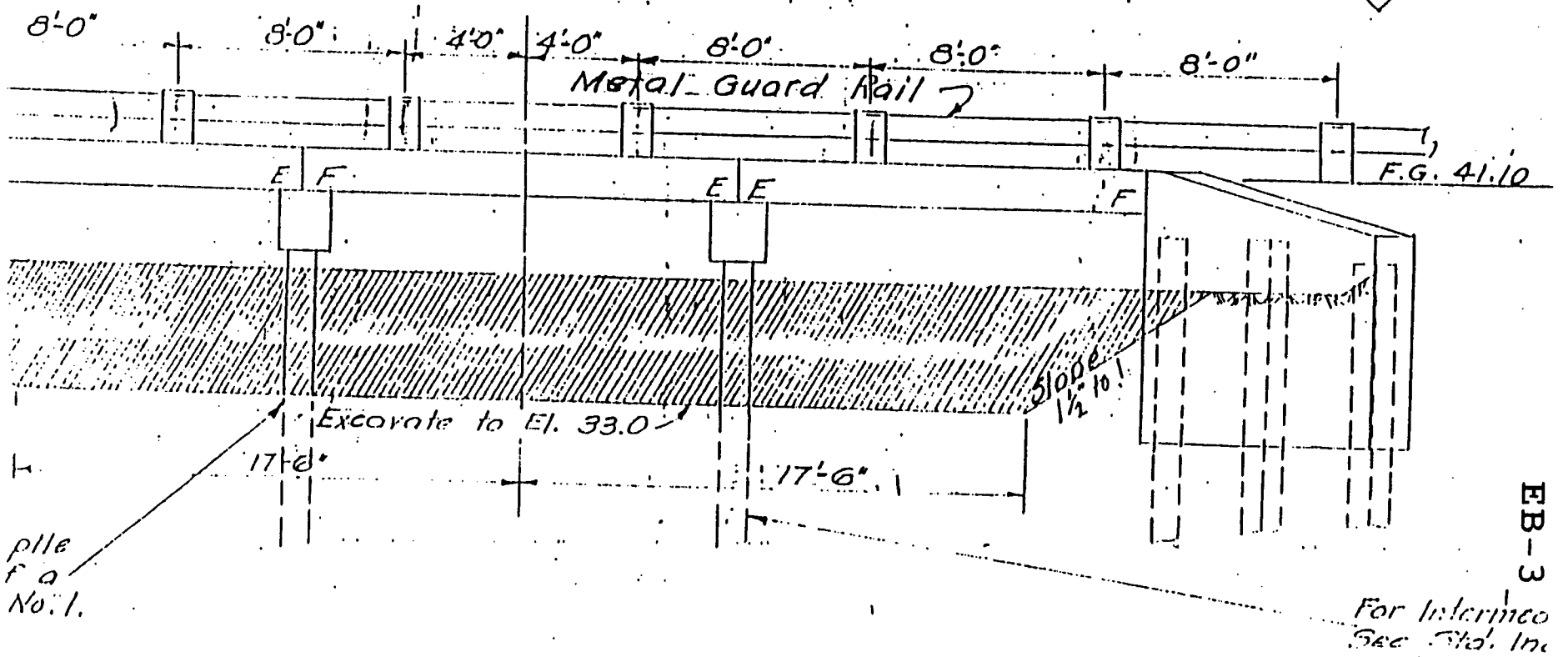
Drive one unloaded test pile 40' long in the position of a permanent pile in bent No. 1

For Intermediate P. See Std. Index No.



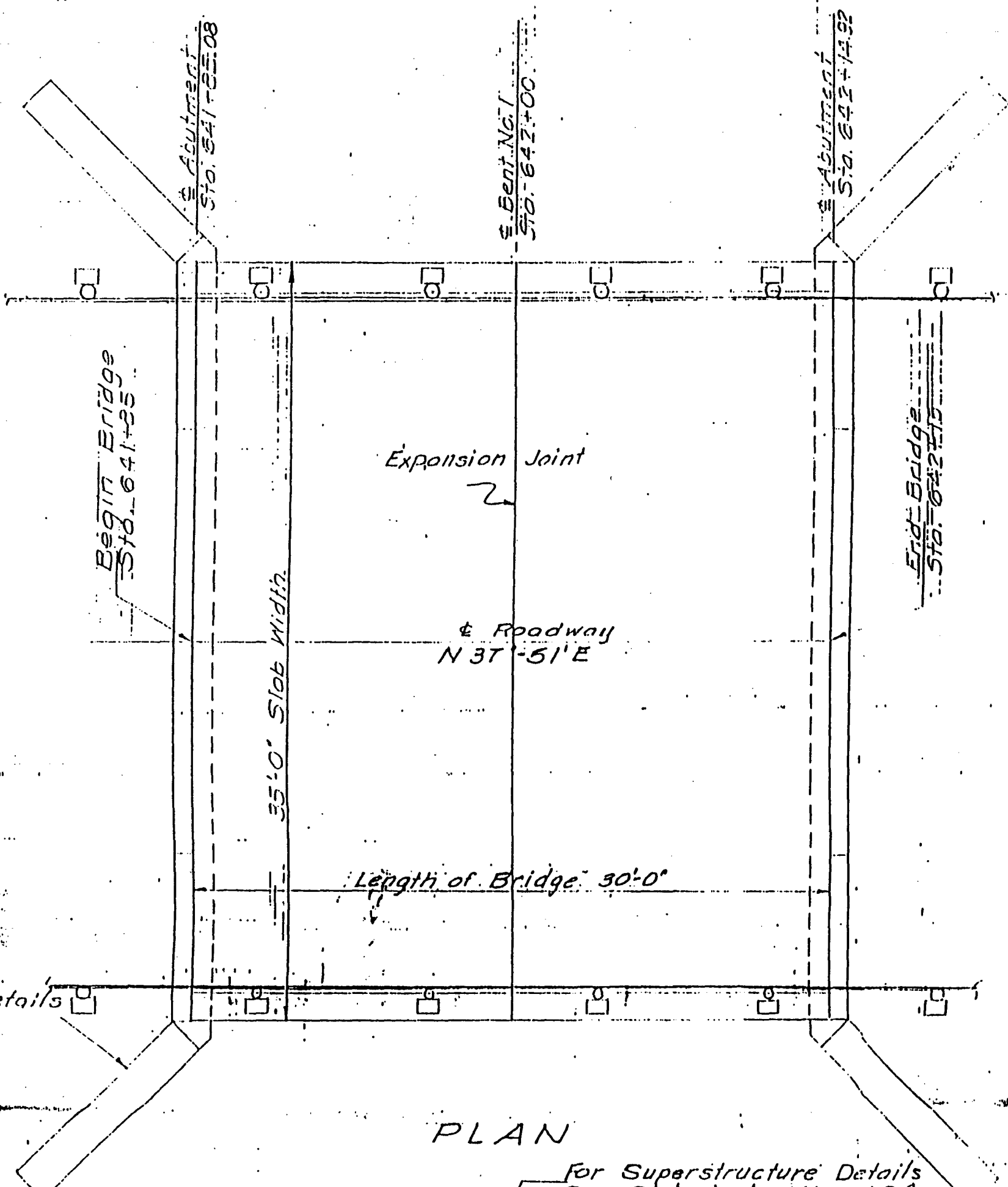
Superstructure Details
Std. Index No. 2184

PLAIN



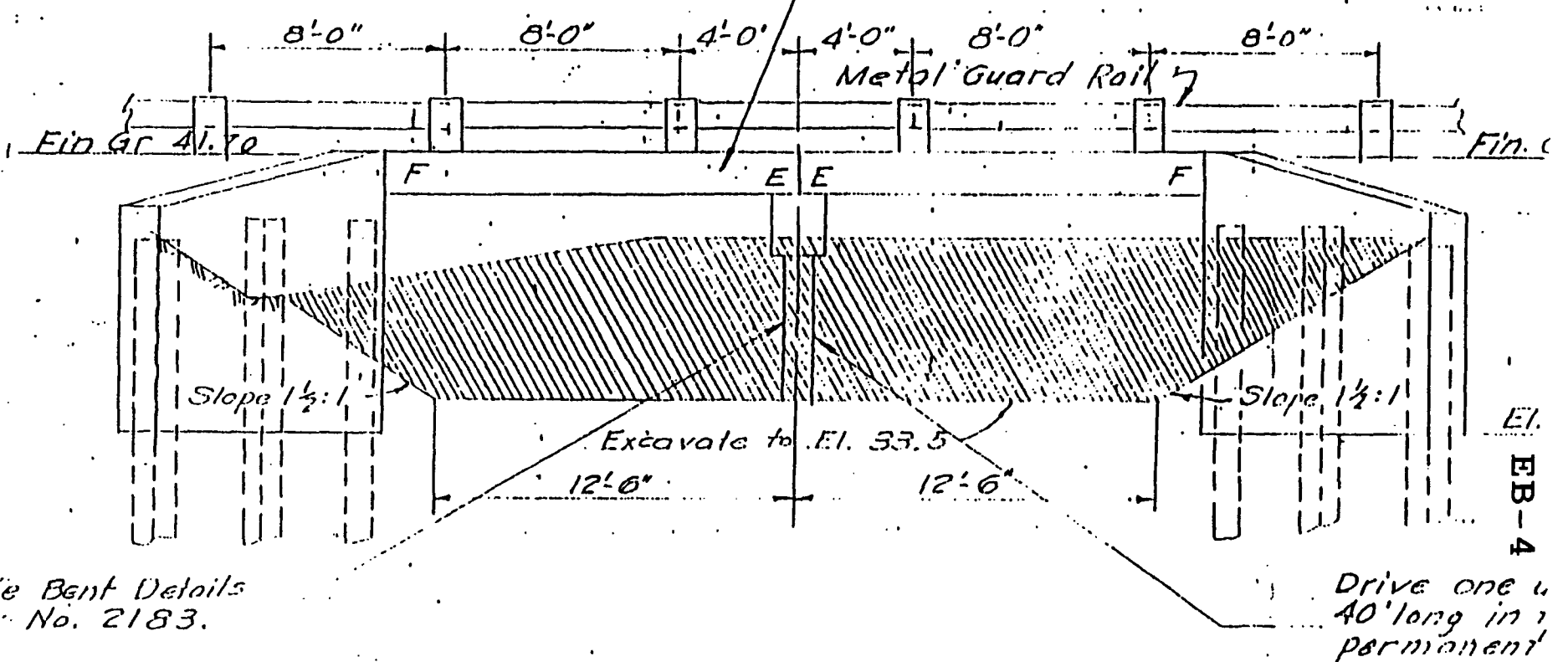
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BRIDGE NO 050031



PLAN

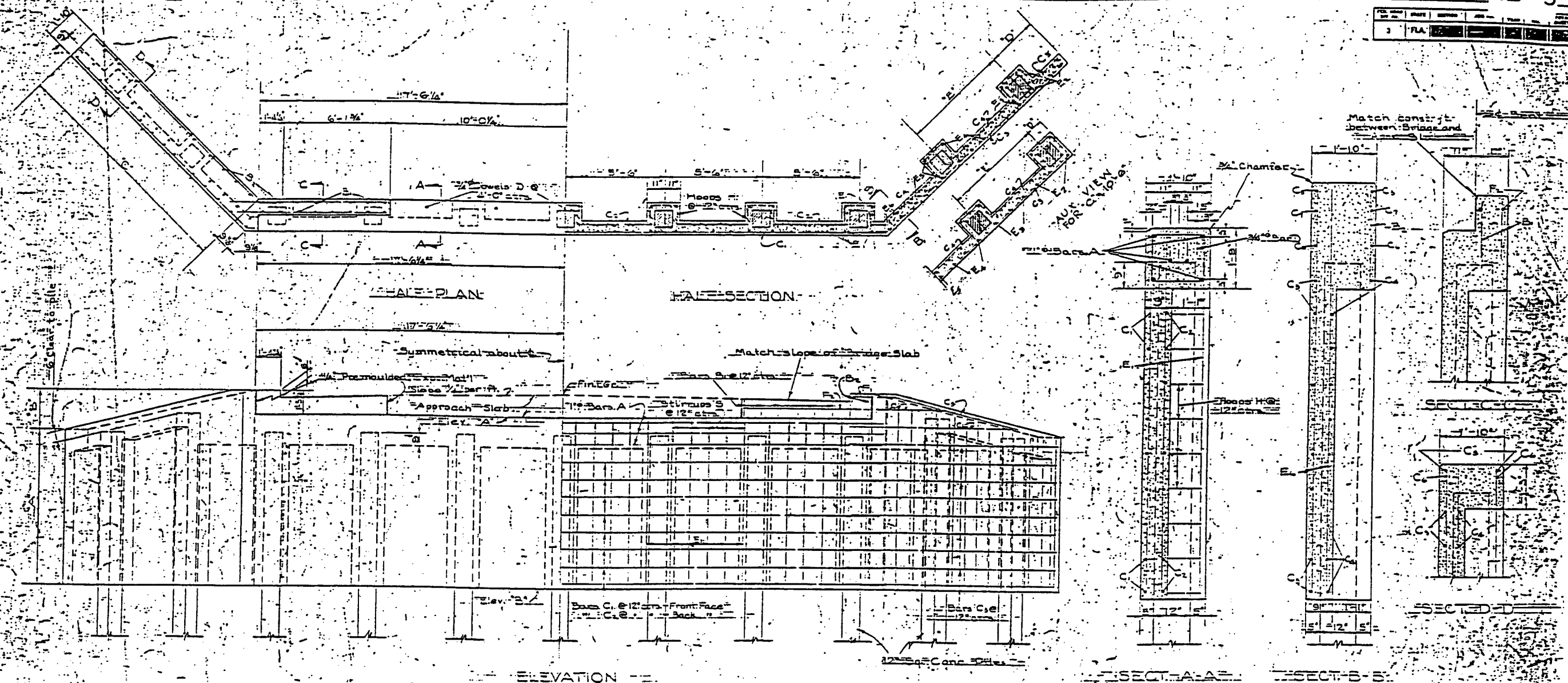
For Superstructure Details See Std. Index No. 2184.



See Bent Details No. 2183.

Drive one u 40' long in 1 permanent

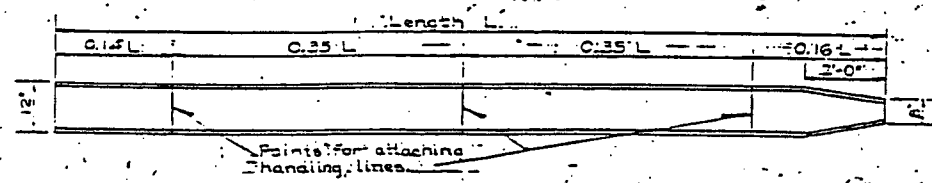
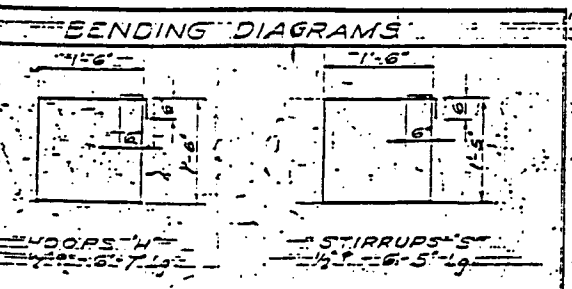
3	RA			
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GENERAL NOTES:

- DESIGN LOAD FOR PILES 20 TONS
- CHAMFER: Chamfer all exposed edges 3/8\"/>

NOTE: All reinforcing steel unless otherwise shown shall be 1/2\"/>



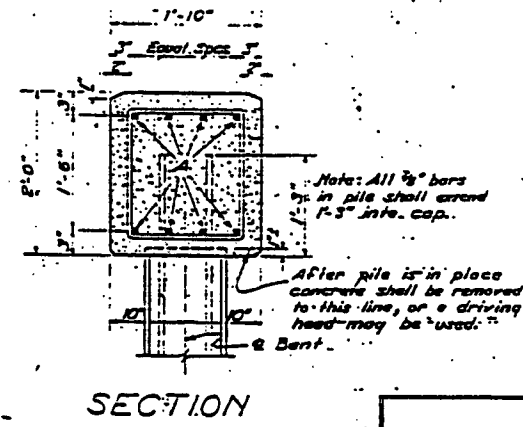
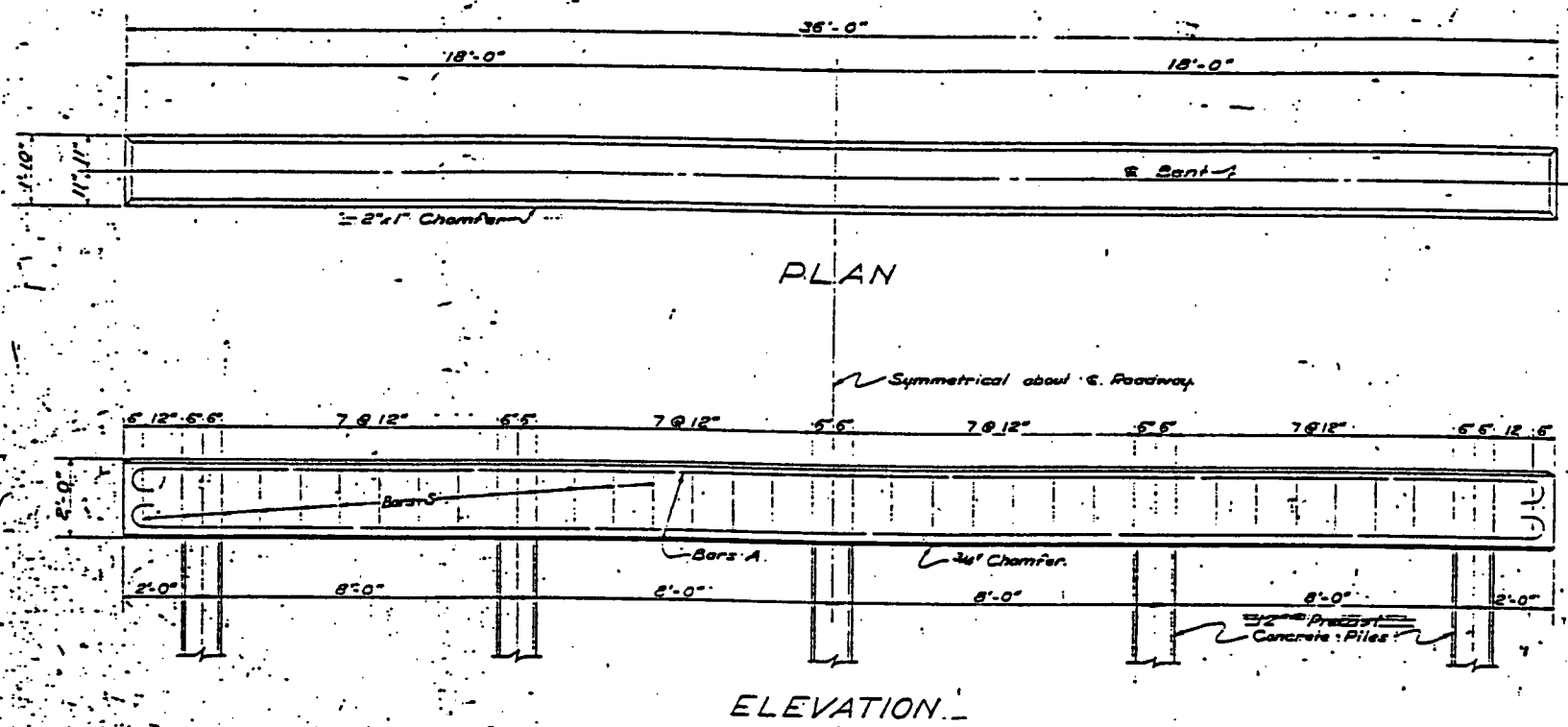
12x12 PRECAST CONCRETE PILES - BOLT TO 4\"/>

NOTE: For reinforcing steel and other details not shown see Sta. Inspec. No. 1203

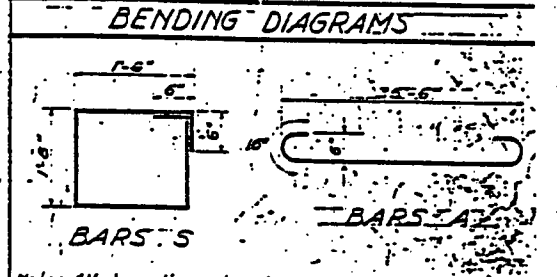
STATE OF FLORIDA			
STATE ROAD DEPARTMENT			
STANDARD CONCRETE ABUTMENT - 15 FT. SPAN 20 FT. RD.			
ROAD NO.	COUNTY	SECTION	JOB NO.

REVISION	NO.	DATE	APPROVED BY

NO.	DATE	REVISION	BY	CHKD.	DATE
3	RA				



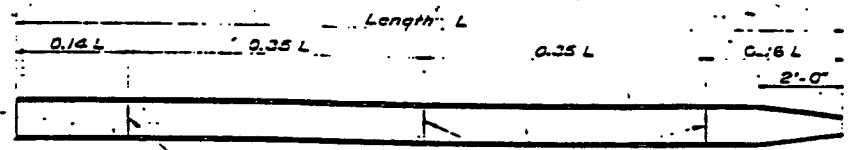
MARK	SIZE	LENGTH	NO. REQ.	BENDING
A	1"	37'-8"	8	See Diagram
B	1/2"	6'-11"	36	



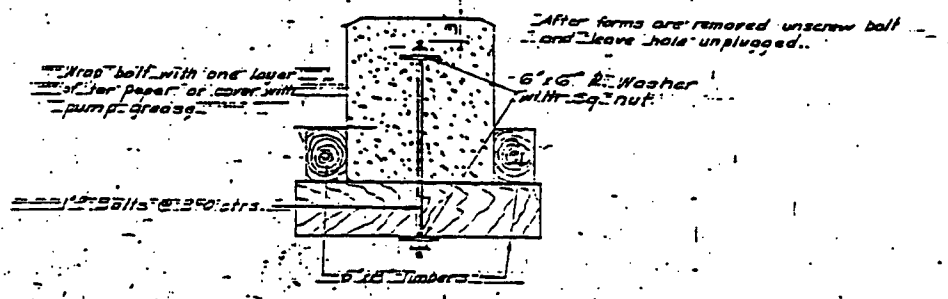
ESTIMATED QUANTITIES		
ITEM	UNIT	QUANTITY
Concrete, Class A (Substructure)	Cu Yd.	4.85
Reinforcing Steel	Lb.	1191
Precast Concrete Piling (12")	Lins Ft.	#

* See Summary of Estimated Quantities.

- GENERAL NOTES:**
- DESIGN SPECIFICATIONS: A. A. S. H. O. 1964
 - LOADING: H-15-44
 - DESIGN LOAD FOR PILES: 20 Tons
 - DOWELS: Set dowels shown on Superstr. Dwg.
 - CHAMFERS: Chamfer all exposed edges unless otherwise shown or directed by the Engineer.



12" x 12" PRECAST CONCRETE PILES ~ 30" TO 45" LONG
 Note: For reinforcing Steel and other details not shown see Standard Index No. 1283.



SECTION THRU CAP SHOWING PERMISSIBLE METHOD OF SUPPORTING SLAB FORMS

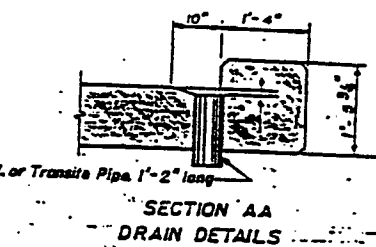
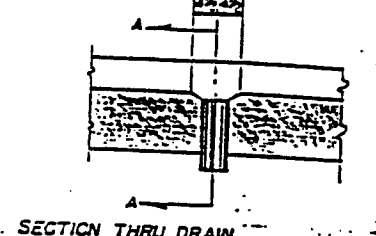
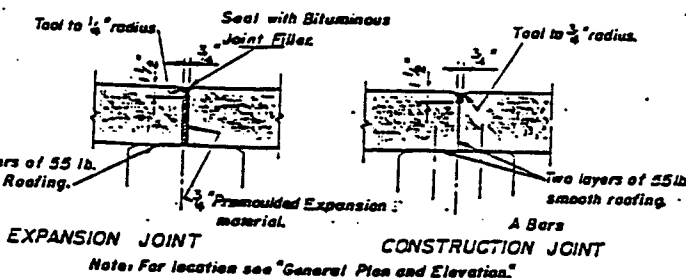
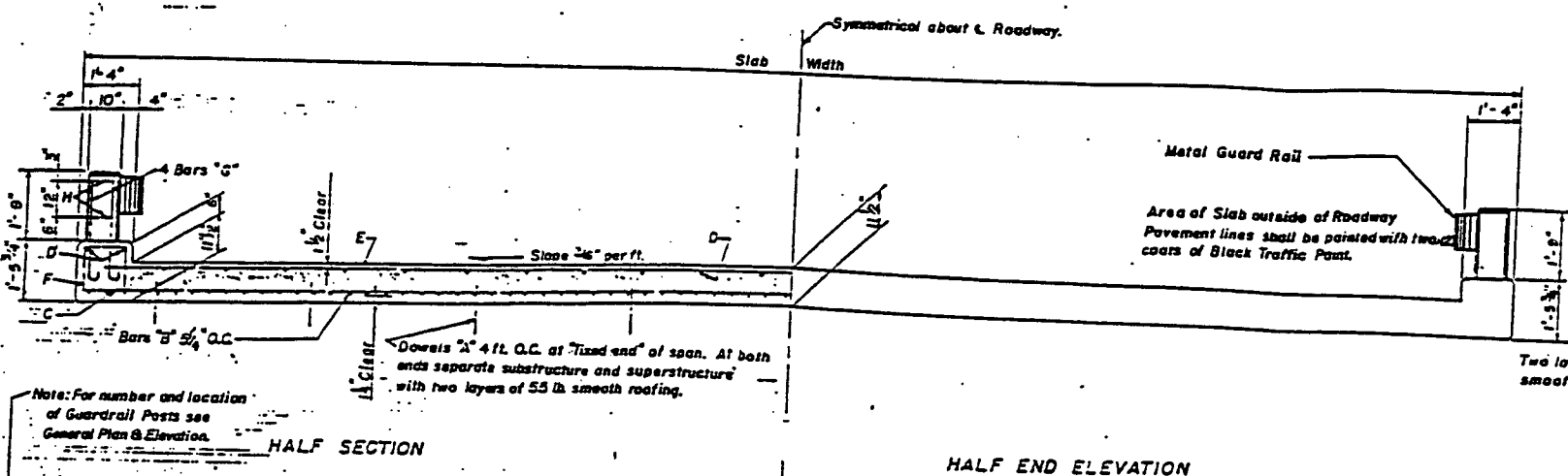
DETAILS OF INTERMEDIATE BENT

STATE OF FLORIDA			
STATE ROAD DEPARTMENT			
STANDARD CONCRETE PILE BENT			
15 FT. SPAN		35 FT. SLAB WIDTH	
ROAD NO.	COUNTY	SECTION	SP. NO.

REVISIONS	Drawn	Date	Approved by
Checked by			
Drawn by	C. E. S.	7-47	
Checked by	T. W. J.	7-47	
Quantity by	J. W. J.	8-47	
Checked by	W. L. C.	8-47	
Traced by			

ITEM NO.	MARK	SECTION	JOB NO.	PROJECT NO.	DATE
3	RA				

EB-7



Note: For number and location of Guardrail Posts see General Plan & Elevation.

HALF SECTION

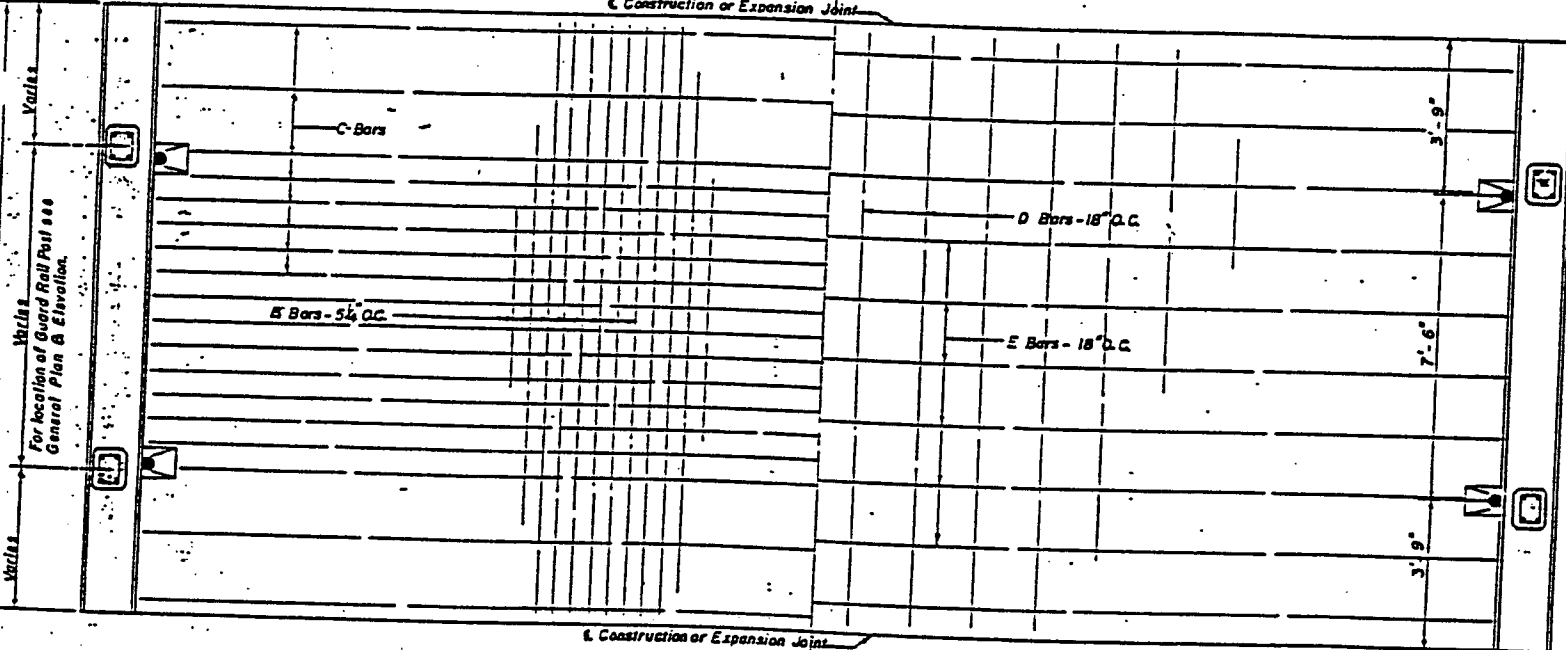
HALF END ELEVATION

EXPANSION JOINT CONSTRUCTION JOINT

Note: For location see "General Plan and Elevation."

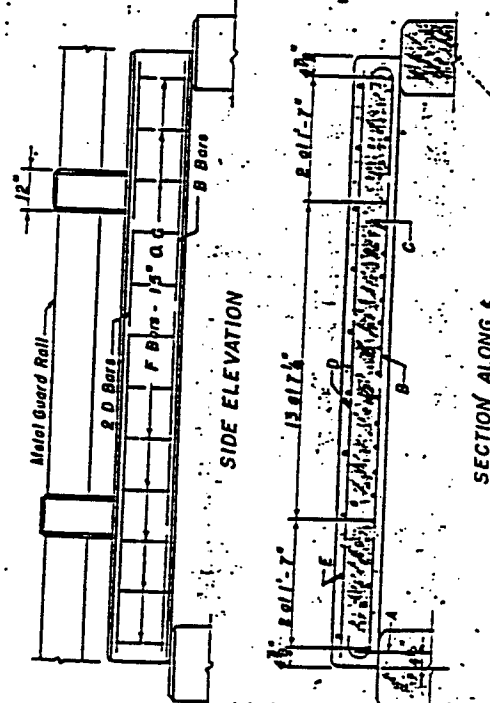
GENERAL NOTES

- DESIGN SPECIFICATIONS: A.A.S.H.O.-44
- LOADING: H:15-44
- CHAMFERS: All exposed edges and corners shall be chamfered 3/4" unless otherwise shown.
- RAIL: The Rail, including the concrete post, shall be paid for at the contract unit price for Guard Rail.



HALF PLAN Showing Reinforcing Steel in Bottom of Slab.

HALF PLAN Showing Reinforcing Steel in Top of Slab.



SIDE ELEVATION

SECTION ALONG C

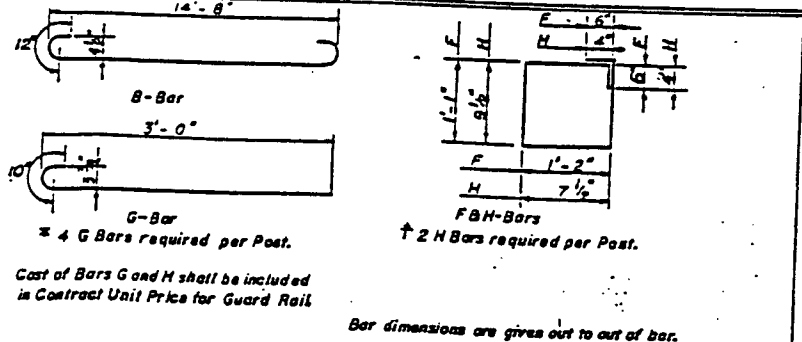
ESTIMATED QUANTITIES

ITEM AND UNIT	33' SLAB WIDTH	35' SLAB WIDTH	37' SLAB WIDTH	39' SLAB WIDTH	40' SLAB WIDTH	43' SLAB WIDTH
Concrete Class A Cu. Yd.		19.36			22.01	
Reinforcing Steel Lb.		3,183			3,635	

BILL OF REINFORCING STEEL

MARK	SIZE	33' SLAB WIDTH		35' SLAB WIDTH		37' SLAB WIDTH		39' SLAB WIDTH		40' SLAB WIDTH		43' SLAB WIDTH	
		No. Required	Length	No. Required	Length	No. Required	Length	No. Required	Length	No. Required	Length	No. Required	Length
A	3/8"	9	1'-3"							10	1'-3"		
B	3/8"	80	16'-4"							92	16'-4"		
C	5/8"	18	3'-7"							18	3'-7"		
D	1/2"	26	14'-6"							29	14'-6"		
E	1/2"	10	33'-0"							10	33'-0"		
F	1/2"	24	5'-1"							24	5'-1"		
G	1/2"	*	3'-8"							*	3'-8"		
H	1/2"	†	3'-1"							†	3'-1"		

BENDING DIAGRAMS



Cost of Bars G and H shall be included in Contract Unit Price for Guard Rail.

Bar dimensions are given out to out of bar.

STATE OF FLORIDA STATE ROAD DEPARTMENT 15 FT. SPAN SLAB SUPERSTRUCTURE

REVISIONS	DATE	DESCRIPTION	DESIGNED BY	CHECKED BY	DATE
CFS 15-48	11/20/48	100% complete	T.M.J.	R.M.M.	8-47
HL F 15-48	removed	change	T.M.J.	R.M.M.	8-47
WGR 15-48	added	change	T.M.J.	R.M.M.	8-47