

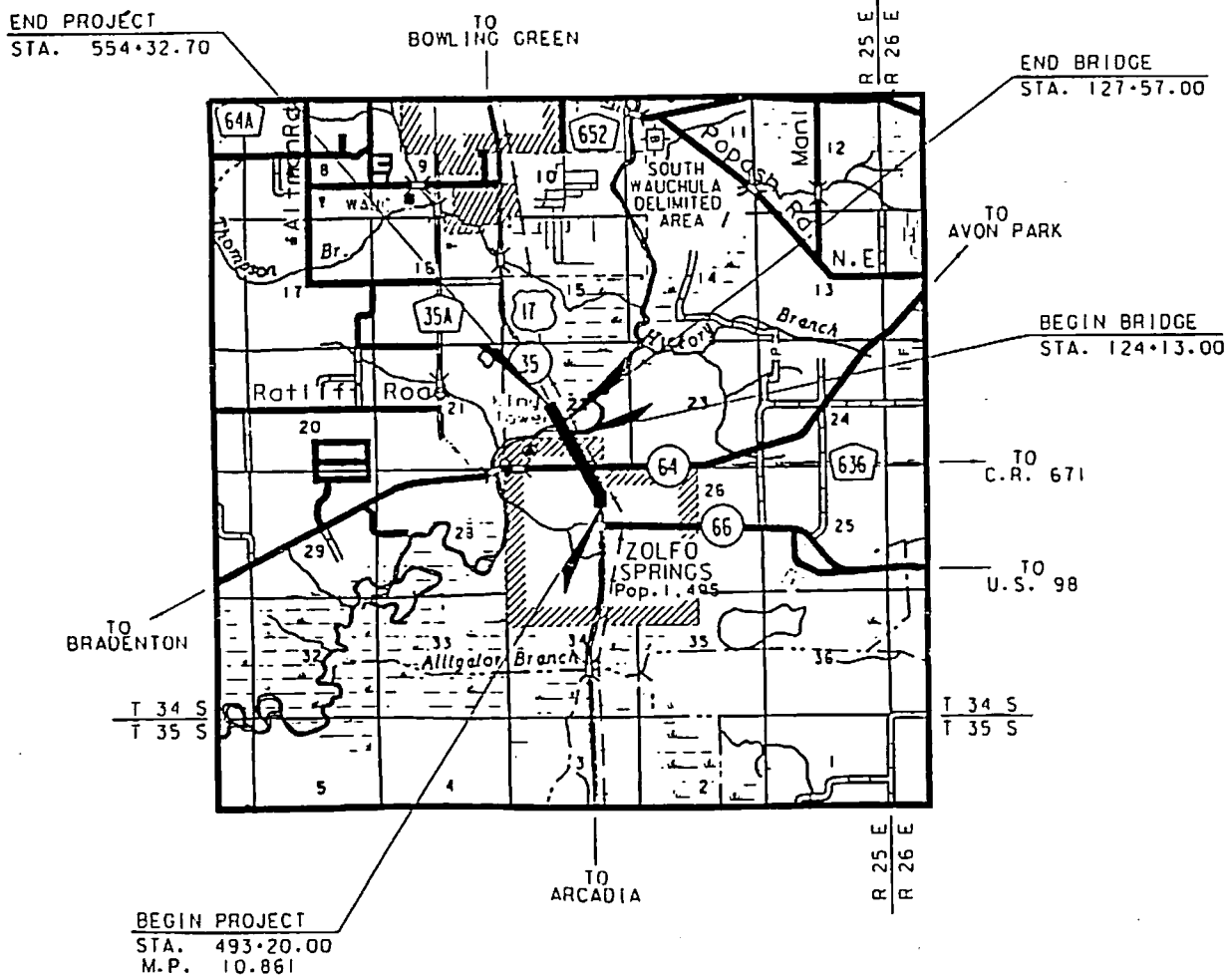
STATE OF FLORIDA
DEPARTMENT OF TRANSPORTATION



198446-1-52-1a

PLANS OF PROPOSED
STATE HIGHWAY

ATE PROJECT NO. 06010-3510 (FEDERAL FUNDS)
HARDEE COUNTY
STATE ROAD NO. 35



LENGTH OF PROJECT		
	LINEAR FT.	MILES
ROADWAY	5,768.70	1.092
BRIDGES	344.00	0.055
NET LENGTH OF PROJ.	6,112.70	1.157
EXCEPTIONS	0.00	0.00
GROSS LENGTH OF PROJ.	6,112.70	1.157

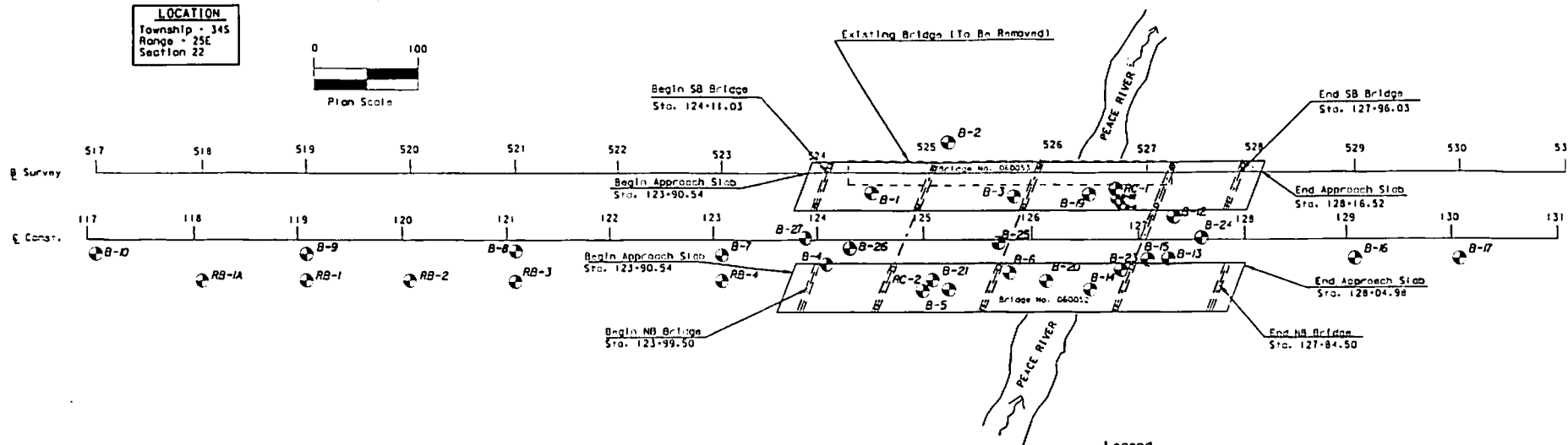
DATE		BY

FDOT PROJECT MANAGER : CHARLES C. ADLER, JR.

DATE	STATE	PROJECT NO.	122	123
3	FLA.			

Latitude: 27.51018 North
Longitude: -81.79375 West
FIN 194029-1-52-01

LOCATION
Township - 34S
Range - 25E
Section 22



NOTES

Numbers to the left of borings indicate SPT values for 12" penetration. (Unless otherwise noted.)

W - Water Table

C - Casing used

B & RB

B - Boring Location

RC

RC - Rock Core Location

~ - Break

Type Rig - CME 45, D-50

Hammer Type - 140 lb. Manual, Dietrich Automatic

qu - Unconfined Compressive Strength (psi)

qs - Split Tensile Strength (psi)

Water

Resistivity - 1800 ohm-cm, Chlorides - 60 ppm,

Sulfates - 112 ppm, pH - 7.7

ENVIRONMENTAL CLASSIFICATION

Substructure - Slightly aggressive

Superstructure - Slightly aggressive

Relation of and Insitu Rock Quality

RQD (%)	Rock Quality
90 - 100	Excellent
75 - 90	Good
50 - 75	Fair
25 - 50	Poor
0 - 25	Very Poor

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

Slits and Clays - Consistency	SPT (Blows/Ft)
Very Soft	Less than 2
Soft	2 - 4
Firm	4 - 8
Stiff	8 - 15
Very Stiff	15 - 30
Hard	Greater than 30

Legend

- SP - Poorly graded sands, sand-silt mixtures.
- SU - Silty sands, sand-silt mixtures.
- SP-SM - Poorly graded sands and gravelly sands, to silty sands, sand-silt mixtures.
- SC - Clayey sands, sand-clay mixtures.
- ML - Inorganic silts miscellaneous or diatomaceous fine sands or silt, elastic silts.
- WL - Inorganic silts, very fine sands, rock flour silty or clayey, fine sands.
- CL - Inorganic clays of low to medium plasticity, gravelly clays, sandy clays, silty clays, lean clays.
- WH - Highly weathered Limestone

REVISIONS

DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION

Drawn by	DME	7/96
Checked by	MEH	7/96
Designed by	DME	7/96
Checked by	MEH	7/96
Reviewed by	MEH	7/96

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



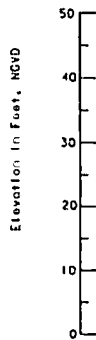
SCALE
7-22-96

FLORIDA DEPARTMENT OF TRANSPORTATION MATERIALS OFFICE	
ROAD NO. 35	COUNTY Hardee
PROJECT NO. 06010-1510	

Report of Core Borings	1
SR 35 Over Peace River	

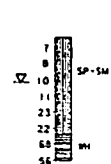
BORING NO. B-10
Sta. 517+00
75' RT.
Elev. 46.20

10-26-87



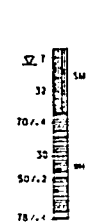
BORING NO. RB-1A
Sta. 518+00
100' RT.
Elev. 46.24

02-08-94



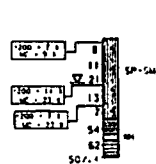
BORING NO. B-9
Sta. 519+00
75' RT.
Elev. 44.60

10-26-87



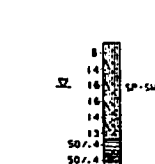
BORING NO. RB-1
Sta. 519+00
100' RT.
Elev. 46.14

02-08-94



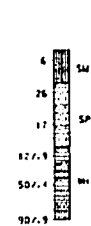
BORING NO. RB-2
Sta. 520+00
100' RT.
Elev. 46.49

02-07-94



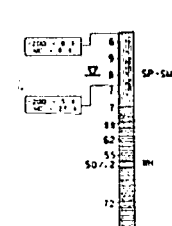
BORING NO. B-8
Sta. 521+00
72' RT.
Elev. 44.20

10-22-87



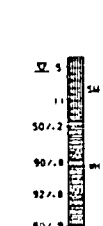
BORING NO. RB-3
Sta. 521+00
100' RT.
Elev. 46.89

02-07-94



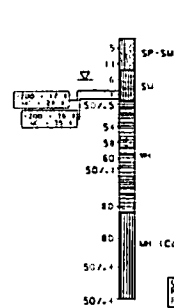
BORING NO. B-7
Sta. 523+00
77' RT.
Elev. 43.80

10-22-87



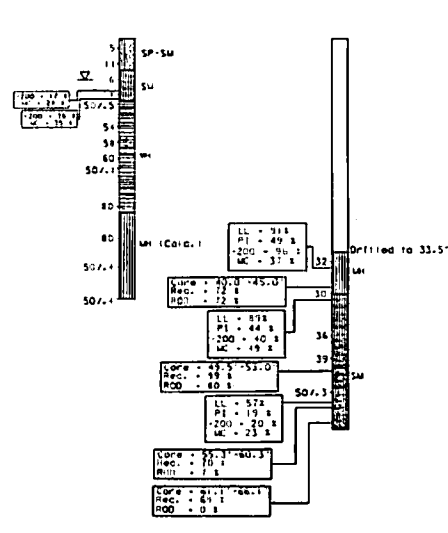
BORING NO. RB-4
Sta. 523+00
100' RT.
Elev. 46.58

02-03-94



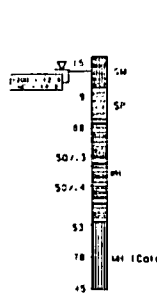
BORING NO. B-27
Sta. 523+00
60' RT.
Elev. 46.5

04-09-96



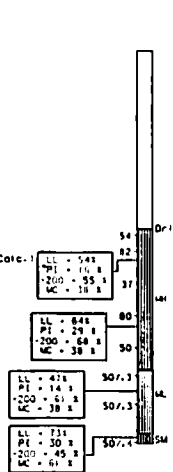
BORING NO. B-41
Sta. 524+05
85' RT.
Elev. 43.60

10-21-87



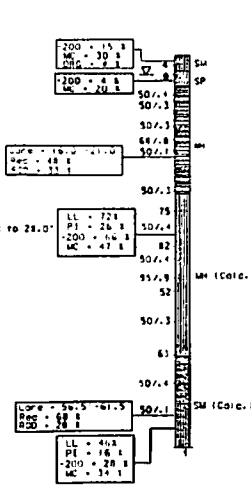
BORING NO. B-26
Sta. 524+25
70' RT.
Elev. 44.5

02-12-96



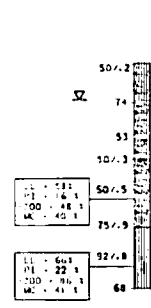
BORING NO. B-1
Sta. 524+45
19' RT.
Elev. 43.70

10-19-87



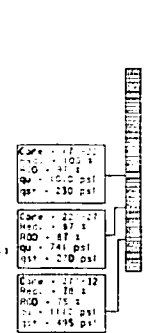
BORING NO. B-21
Sta. 525+00
100' RT.
Elev. 42.54

02-02-94



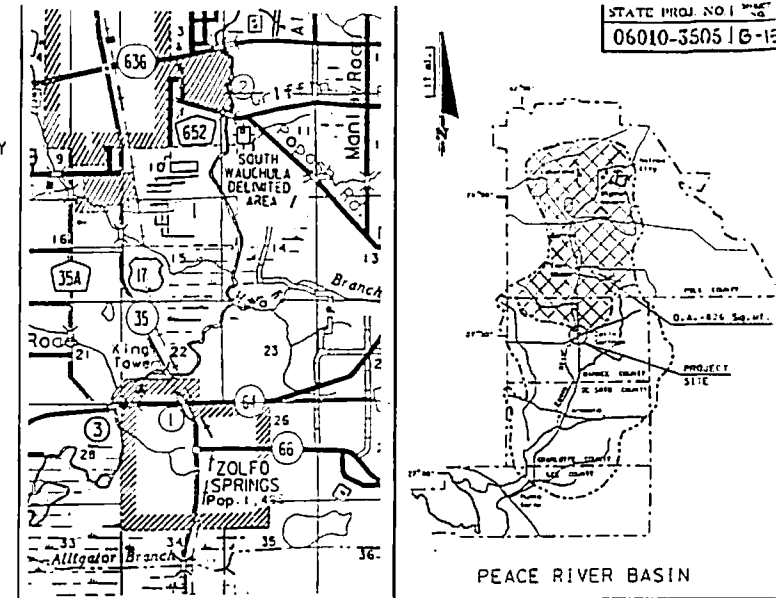
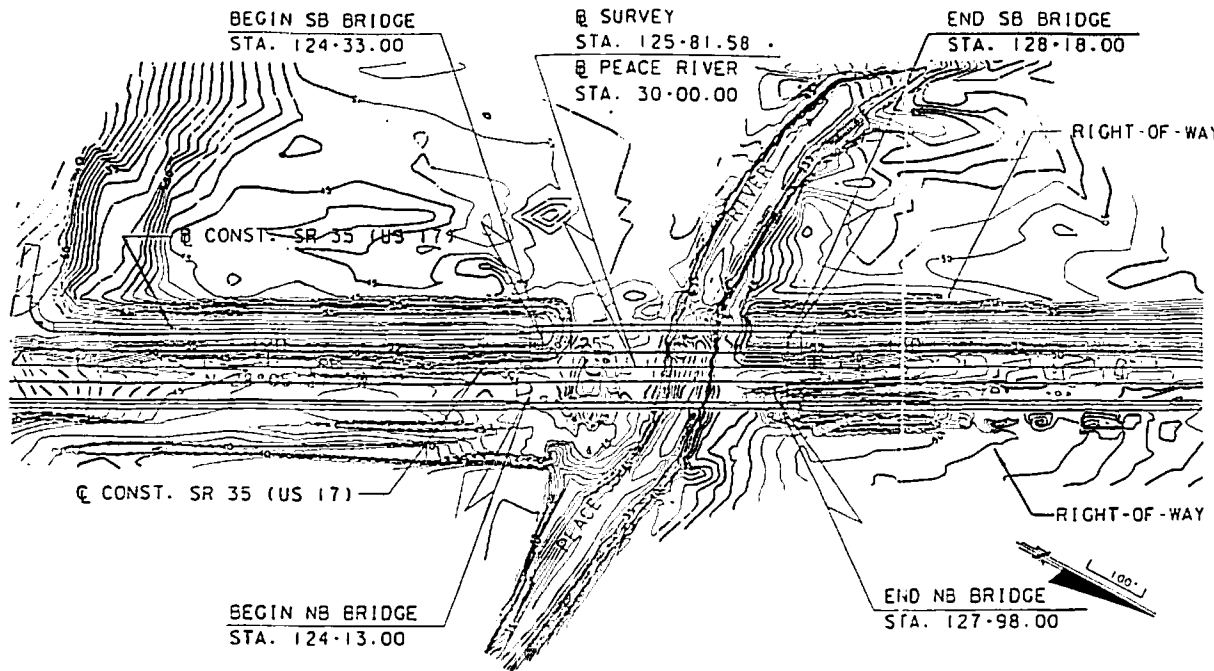
BORING NO. RB-2
Sta. 525+00
110' RT.
Elev. 41.70

05-17-94



11/1/94/00/11/12 Rev. 11/1/94/00/11/12 Rev.

REVISIONS				ENGINEER OF RECORD		LOCATION		FLORIDA DEPARTMENT OF TRANSPORTATION		PROJECT NAME		REPORT NO.	
Date	By	Description	Date	By	Description	MATERIALS OFFICE		MATERIALS OFFICE		SR 35 Over Peace River		2	
						DISTRICT 1		COUNTY		PROJECT NO.		SR 35 Over Peace River	
						801 N. Broadway		35		Hardee		06010-1510	
						Barrow, Florida 3261249		7-22-96					



REFERENCE	EXISTING STRUCTURES	ASSUMED CONFIGURATION
FOUNDATION	Concrete	48" Grilled Sheet
OVERALL LENGTH	100.0	100.0
SPAN LENGTH	100.0	100.0
TYPE CONSTRUCTION	Concrete	Concrete
AREA OF OPENING - H.W.	1368 S.F.	2748 S.F.
ROADWAY WIDTH	24.0	24.0
ELEV. LOW WATER	52.1	54.0

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 calculate these factors. The resulting hydraulic data is sensitive to changes, particularly pertinent conditions, visualization, 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).
- Overlapping 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 overlapping is not practicable.

WATER SURFACE ELEVATIONS: H.W. EL. 47.4, U.W. EL. N/A, O.W. EL. N/A

FLOOD DATA	WATER SURFACE ELEVATION	DESIGN FLOOD	BASE FLOOD	OVERLAPPING FLOOD
STAGE ELEV. ABOVE I.P.P.	54.75	54.75 (1)	54.75 (1)	54.75 (1)
DISCHARGE (CFS)	26,000 (1)	19,663 (2)	28,215 (2)	28,215 (2)
VELOCITY (FPS)	0.90	4.40 (3)	5.19 (3)	5.19 (3)
EXCEEDANCE PROB. (%)	11	50	100	100
FREQUENT FLOOD	11	50	100	100

124+13.00 NB. HYDRAULIC RECOMMENDATIONS 127+98.00 NB.

1. BEGIN BRIDGE STATION 124+33.00 SB. 2. END BRIDGE STATION 128+18.00 SB. 3. SIDE SLOPE 2:1

4. CHANNEL SECTION: STATION 126+57.1. BOTTOM WIDTH Varies. ELEV. Varies. SIDE SLOPE 2:1

5. LIMITS OF CHANNEL EXCAVATION: ST. 124+13.00 TO 128+18.00. ELEV. 12.15 TO 12.25

6. CLEARANCE: NAVIGATION: HORIZ. VERT. 9.60' ABOVE EL. 47.40. DRIFT: HORIZ. VERT. 2.24' ABOVE EL. 54.75

7. SCOUR PREDICTION: 100 YR. - 21.0 F.T. - ELEVATION 18.65. 500 YR. - 27.5 F.T. - ELEVATION 12.15

8. SLOPE PROTECTION: Provide standard Bank and Shore Ripp on all abutment slopes to end of radius of abutments.

9. DECK DRAINAGE: Deck drainage to be intercepted and conveyed in paved shoulder gutters at or near ends per F.O.D.T. Standards.

REMARKS: 1.11 Gauge record, 9/05/1933.

1.2.1 Discharge from Log-Pearson Type III distribution.

1.3.1 Stage is at approach section, velocity at bridge section.