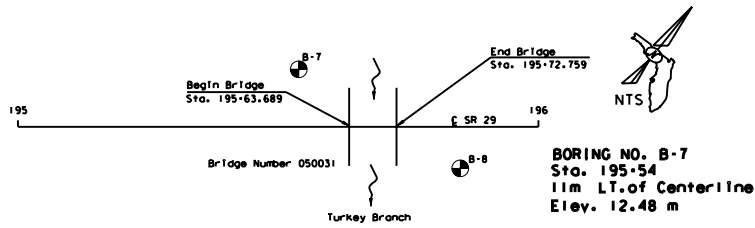




Figure 1. Project Location Map
 Federal Emergency
 Management Agency



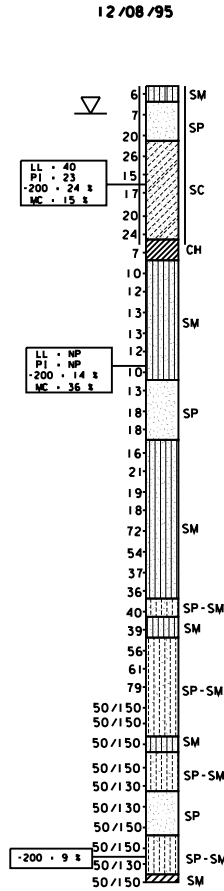
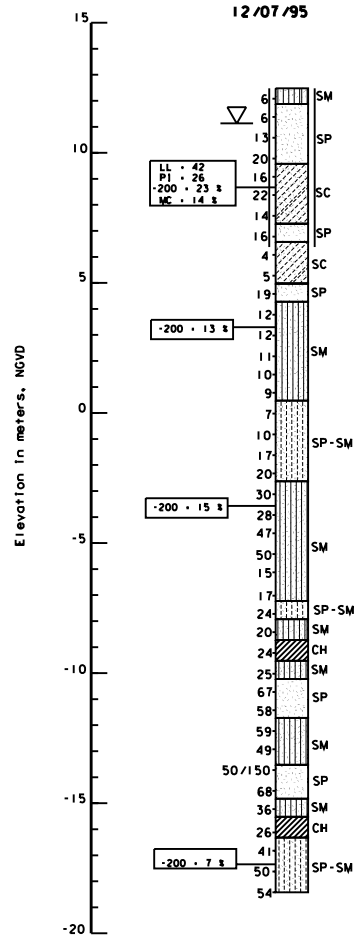


Latitude: 26.86511222 North
Longitude: -81.31825345 West

Township: 41S
Range: 30E
Section: 16

BORING NO. B-7
Sta. 195+54
11m LT. of Centerline
Elev. 12.48 m

BORING NO. B-8
Sta. 195+85
8m RT. of Centerline
Elev. 12.56 m



LEGEND :

- SP, Poorly graded sands, sand-silt mixtures.
- SC, Clayey sands, sand-clay mixtures.
- SM, Silty sands, sand-silt 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 Used - Falling 1500

Hammer Type - 63.5 kn Manual

WATER :

Resistivity : 10,000 ohms-cm, Chlorides : 40 ppm, Sulfates : <2, pH : 5.5.

ENVIRONMENTAL CLASSIFICATION

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

Granular Materials- 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- 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

REVISIONS

DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION
1/18/96	TNP	Hammer Type revised	03/14/97	DML	Added note 50/90 - Number of blows for 90 mm of penetration
02/10/97	MEH	N value's corrected	06/20/97	TNP	Begin & End Bridge stations, corrected Sheet Numbers, added

NAME	DATE
DML	6/97
MEH	6/97
T.N. Puckett	

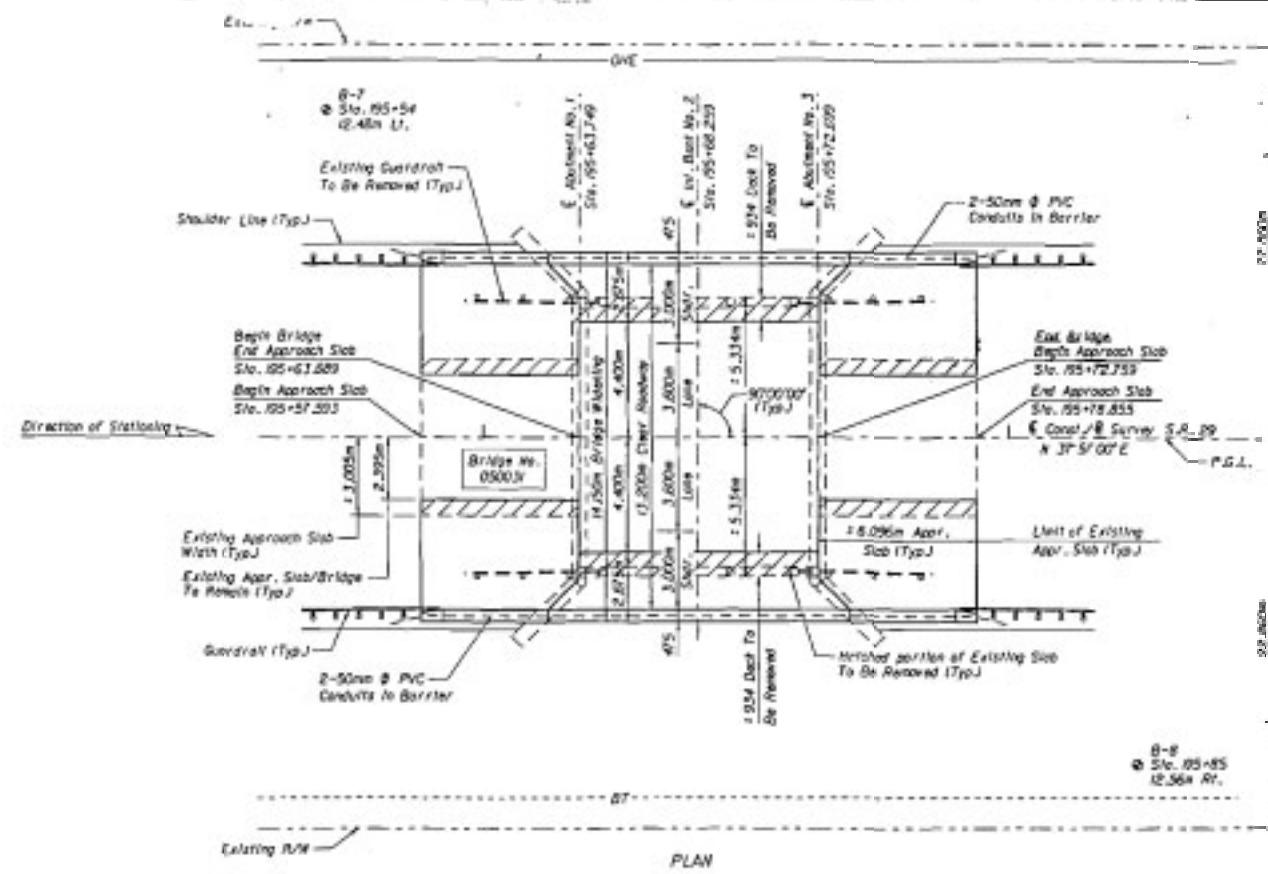
ENGINEER OF RECORD
MATERIALS OFFICE
DISTRICT I
801 N. Broadway
Bartow, Florida 33830-1249



SEAL

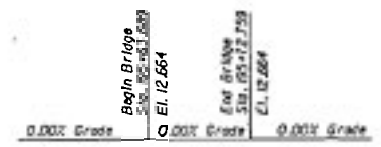
FLORIDA DEPARTMENT OF TRANSPORTATION MATERIALS OFFICE		
ROAD NO. 29	COUNTY Glades	PROJECT NO. 05090-3511

SHEET TITLE Report of Core Borings	DRAWING NO. 1
PROJECT NAME SR 29/over Turkey Branch	INDEX NO.

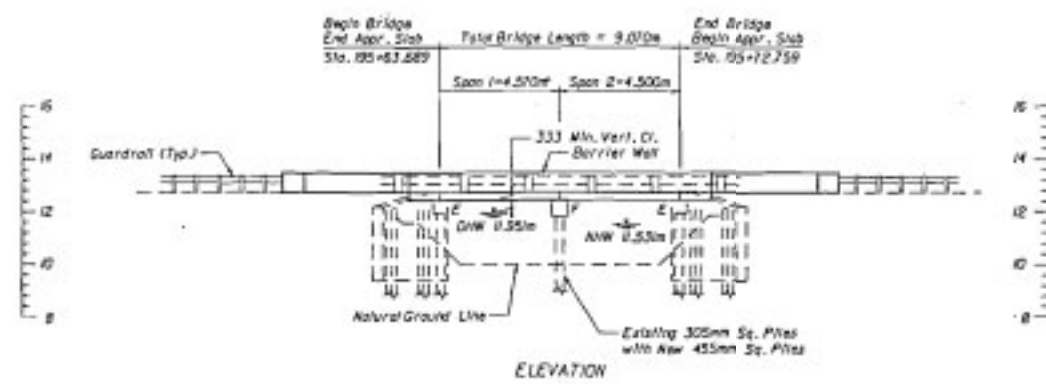


TRAFFIC DATA

1994 ADT = 1950
 1999 EST. ADT = 2150
 2019 EST. ADT = 2950
 K = 9.02
 D = 53.82
 T = 33.6% 124 NRJ
 T = 16.8% 125% NRJ
 DESIGN SPEED 100 km/h



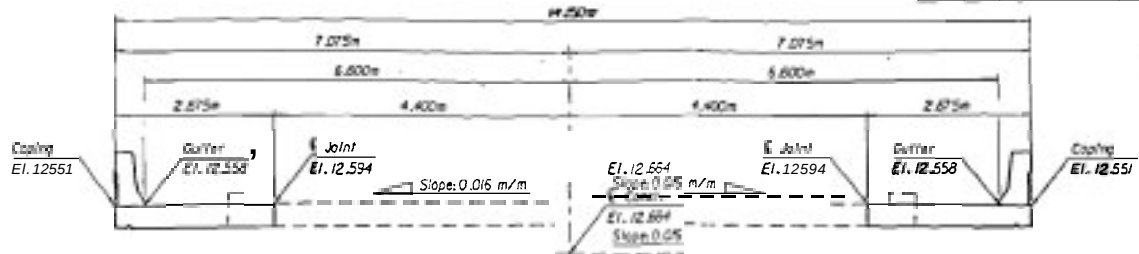
PROFILE GRADE S.A. 29 Along E Construction



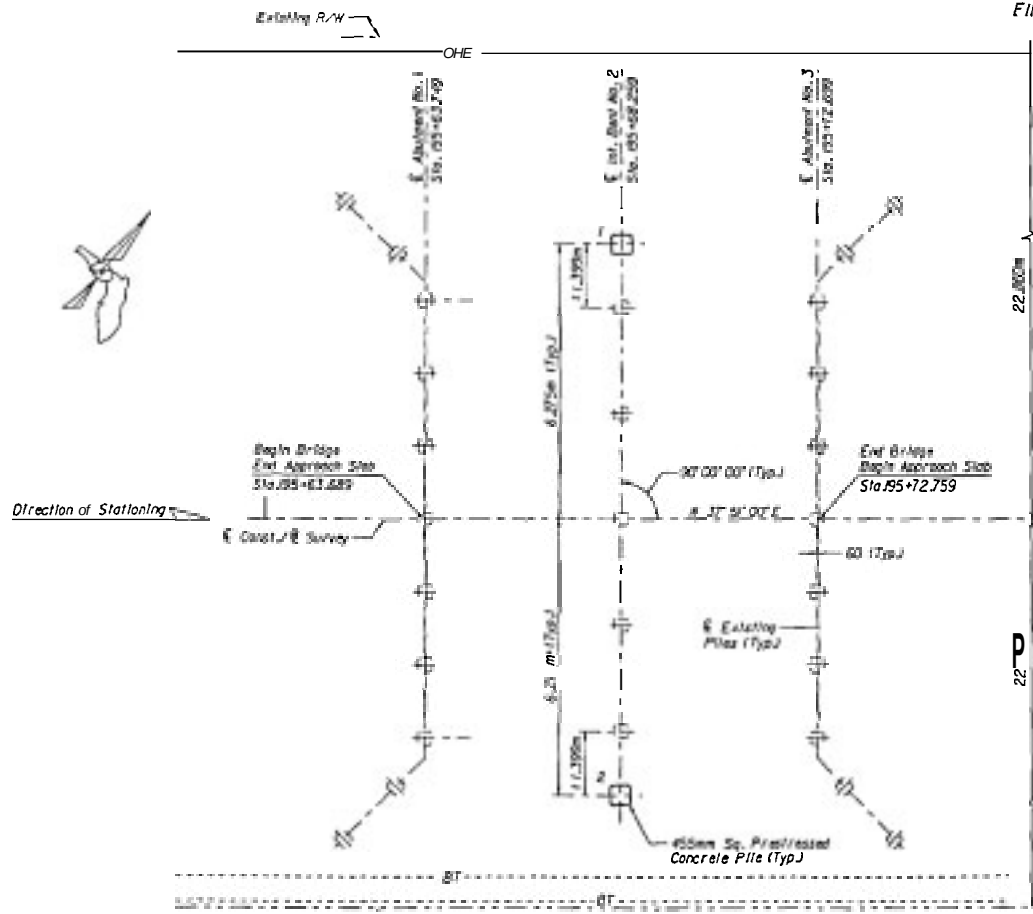
REVISIONS				ENGINEER OF RECORD: JMI ENGINEERS, INC. 900 Woodbury Park, Ste. 118 Maitland, Florida 32751 Tel. 407-875-0000 Fax 407-875-0500	LOGO 	SCALE	FLORIDA DEPARTMENT OF TRANSPORTATION STRUCTURES DESIGN OFFICE	SHEET NO. S.A. 29	PROJECT NO. 05000-151	SHEET TITLE PLAN AND ELEVATION S.A. 29 BRIDGE OVER TURKEY BRANCH, BRIDGE NO. 0500JI	Drawing No.
No.	Description	Date	By								
1	Check by			Checked by							
2	Design by			Design by							
3	Reviewed by			Reviewed by							
4	Approved by			Approved by							

PILE INSTALLATION TABLE									
Pier or Ben.	Pile Size (mm)	Axial Design Load (kN)	Total Scour Resistance * (kN)	Net Scour Resistance ** (kN)	Yin. Tip Elev. (m NGVD)	500 Yr Scour Elev. (m NGVD)	Required Perform Elev. (m NGVD)	Required Jet Elev. (m NGVD)	Test Pile Length (m)
1B-2									

* Total side friction resistance from ground line to the scour elevation.
 ** Net side friction resistance from the required performed or jetting elevation to the scour elevation.



SECTION THRU SUPERSTRUCTURE SHOWING FINISH GRADE ELEVATIONS



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

- NOTES:
1. All New Piles are 455mm Sq. Prestressed Concrete Pile.
 2. All New Piles are Plumb.
 3. For the Pile Cutoff Elevations, see Substructure sheets.
 4. All existing piles are to remain.
 5. XXXXX
 6. XXXXX

FOUNDATION LAYOUT

REVISIONS <table><thead><tr><th>Revised</th><th>By</th><th>Date</th></tr></thead><tbody><tr><td> </td><td> </td><td> </td></tr></tbody></table>			Revised	By	Date				<table><tr><td>Drawn by</td><td> </td></tr><tr><td>Checked by</td><td> </td></tr><tr><td>Reviewed by</td><td> </td></tr><tr><td>by</td><td> </td></tr><tr><td>approved by</td><td> </td></tr></table>	Drawn by		Checked by		Reviewed by		by		approved by		ENGINEER OF RECORD: JMI ENGINEERS, INC. 900 W. Highway 90, Suite 100, Ft. Lauderdale, FL 33304 Tel: 407-875-5550 Fax: 407-875-5551	LOGO: 	SEAL:	 FLORIDA DEPARTMENT OF TRANSPORTATION STRUCTURES DESIGN OFFICE <table><thead><tr><th>ROAD NO.</th><th>STATE</th><th>PROJECT NO.</th></tr></thead><tbody><tr><td>S.R. 29</td><td>GLADES</td><td>05090-3511</td></tr></tbody></table>	ROAD NO.	STATE	PROJECT NO.	S.R. 29	GLADES	05090-3511	SHEET TITLE FOUNDATION LAYOUT & FINISH GRADE ELEVATIONS	Drawing No.
Revised	By	Date																													
Drawn by																															
Checked by																															
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by																															
approved by																															
ROAD NO.	STATE	PROJECT NO.																													
S.R. 29	GLADES	05090-3511																													
					PROJECT NAME S.R. 29 BRIDGE OVER TURKEY BRANCH. BRIDGE NO. 050031	Sheet No.																									



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 the event of a severe flood. This data was generated using criteria factors determined by a study of the watershed. Many judgments and assumptions are required to establish these figures. 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 specified level of hydraulic performance.

Base Flood: The flood having a 0.2 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 practiced where overlapping is not practicable.

WATER SURFACE ELEVATIONS IN MILES - TIDAL

	0.50	0.10	0.05	0.02
FLOOD DATA:				
STAGE ELEV. (WIG) (M)	4.50	4.80	5.00	5.20
DISCHARGE (CFS/M)	447	58	58	58
AVERAGE VELOCITY (W/S) (M/S)	0.30	0.34	0.34	0.34
EXCEEDANCE PROB. (%)	20	10	5	2.5
FREQUENCY (YR)	50	100	200	400

HYDRAULIC RECOMMENDATIONS

1. BEGIN BRIDGE STATION 00+52.00 END BRIDGE STATION 00+72.00 SKEW ANGLE 0°

2. CHANNEL SECTIONING STATION 00+60.00 BOTTOM WIDTH 8.5 ft ELEV. 40.05 SIDE SLOPE 2:1

3. LIMITS OF CHANNEL EXCAVATION RT. 0.00 LT. 0.00

4. CLEARANCE, NAVIGATION HORIZ. 0.00 VEAT 0.00 ABOVE EL. 0.00 CRUIT HORIZ. 3.00 VEAT 0.00 ABOVE EL. 0.00

5. SEDIMENT PRODUCTION 0.00 FLOOD CHANNELING EL. = 0.00 FLOOD EL. = 0.00
STORM FLOOD CHANNELING EL. = 0.00 FLOOD EL. = 0.00

6. SLOPE PROTECTION 0.00

7. DRAINAGE 0.00 WITH STAKE TO RT. BELOW MAIN CHANNEL CENTERLINE.

8. OTHER _____

REMARKS _____

[illegible]