

COMPONENTS OF CONTRACT PLANS SET

ROADWAY PLANS  
SIGNING AND PAVEMENT MARKING PLANS  
STRUCTURE PLANS

STATE OF FLORIDA  
DEPARTMENT OF TRANSPORTATION

CONTRACT PLANS

FINANCIAL PROJECT ID 199676-1-52-01  
(FEDERAL FUNDS)  
MANATEE COUNTY (I3501)  
KEY ROYALE DRIVE

A DETAILED INDEX APPEARS ON THE  
KEY SHEET OF EACH COMPONENT

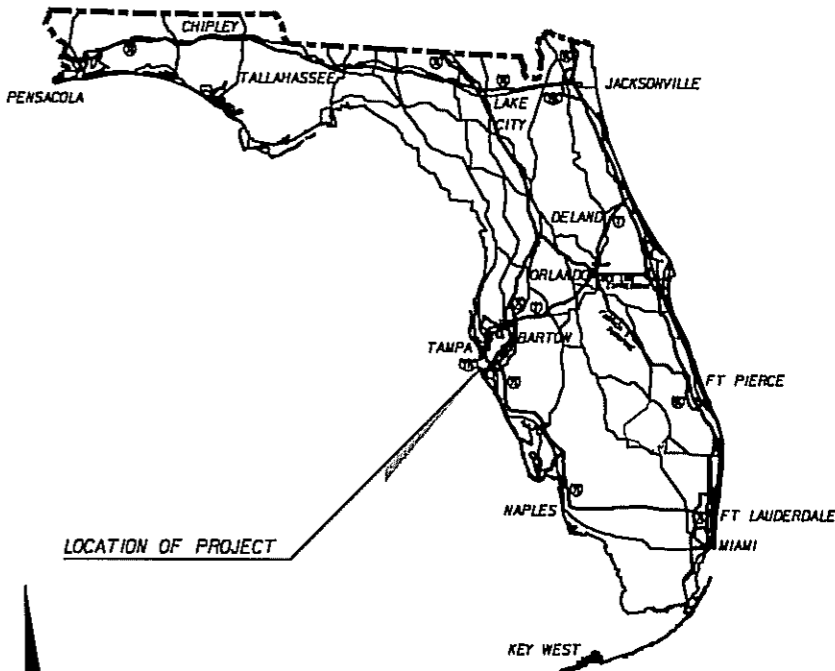
INDEX OF ROADWAY PLANS

SHEET NO.	SHEET DESCRIPTION
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2	SUMMARY OF PAY ITEMS
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4	SUMMARY OF QUANTITIES
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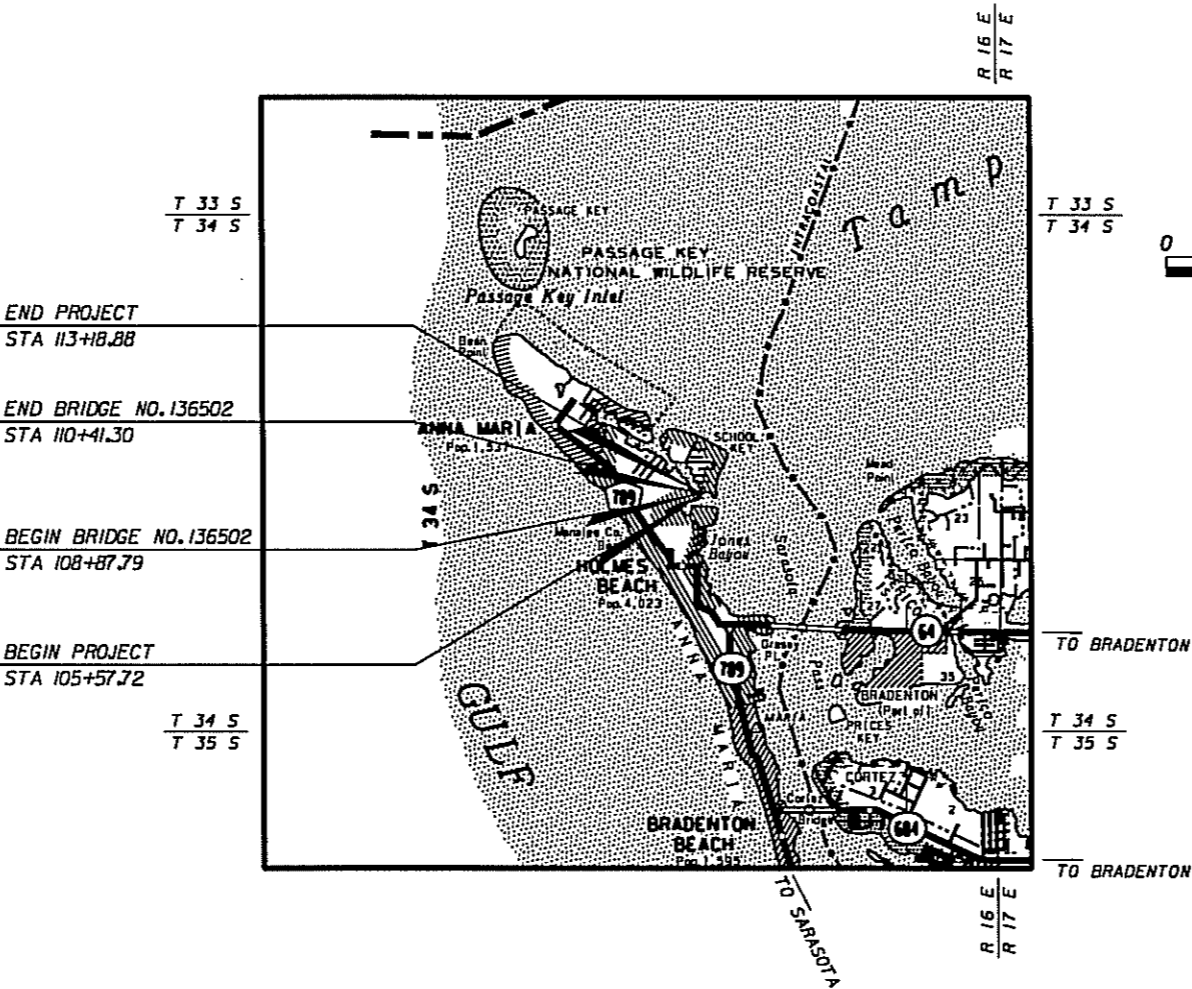
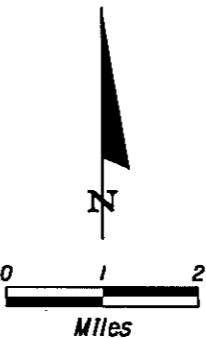
GOVERNING STANDARDS AND SPECIFICATIONS:  
FLORIDA DEPARTMENT OF TRANSPORTATION,  
DESIGN STANDARDS DATED JANUARY 2004,  
AND STANDARD SPECIFICATIONS FOR ROAD AND  
BRIDGE CONSTRUCTION DATED 2004,  
AS AMENDED BY CONTRACT DOCUMENTS.

APPLICABLE DESIGN STANDARDS MODIFICATIONS: 7-1-05  
For Design Standards Modifications click on  
"Design Standards" at the following web site:  
<http://www.dot.state.fl.us/rddesign/>

REVISIONS



LOCATION OF PROJECT



T 33 S  
T 34 S

END PROJECT  
STA 113+18.88

END BRIDGE NO. 136502  
STA 110+41.30

BEGIN BRIDGE NO. 136502  
STA 108+87.79

BEGIN PROJECT  
STA 105+57.72

T 34 S  
T 35 S

T 33 S  
T 34 S

T 34 S  
T 35 S

TO BRADENTON

TO BRADENTON

LENGTH OF PROJECT

	LINEAR FEET	MILES
ROADWAY	607.78	0.115
BRIDGES	153.38	0.029
NET LENGTH OF PROJECT	761.16	0.144
EXCEPTIONS	0.000	0.000
GROSS LENGTH OF PROJECT	761.16	0.144

FDOT PROJECT MANAGER: BARBARA COMBS

KEY SHEET REVISIONS		
DATE	BY	DESCRIPTION

ROADWAY SHOP DRAWINGS  
TO BE SUBMITTED TO:

GARY J. NADEAU, P.E.  
2601 CATTLEMEN ROAD  
SUITE 104  
SARASOTA, FLORIDA 34232  
(941) 343-0532  
FAX (941) 343-0493  
PLANS PREPARED BY:

**AYRES**  
ASSOCIATES

2601 CATTLEMEN ROAD  
SUITE 104  
SARASOTA, FLORIDA 34232  
(941) 343-0532  
FAX (941) 343-0493  
VENDOR ID NO. 39-0965082  
CERTIFICATE OF AUTHORIZATION NO. 4356

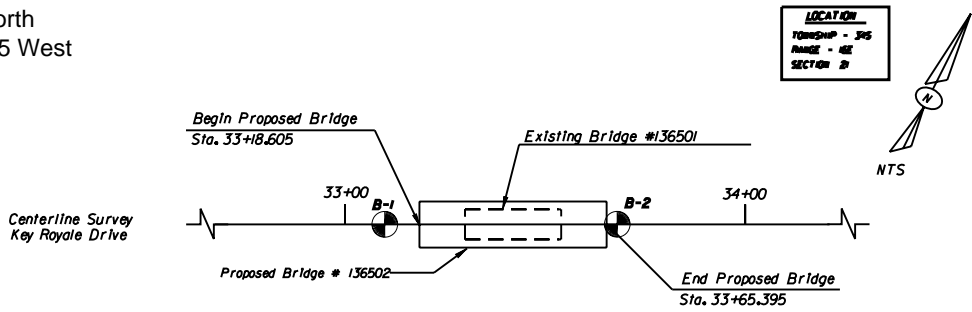
NOTE: THE SCALE OF THESE PLANS MAY  
HAVE CHANGED DUE TO REPRODUCTION.

ROADWAY PLANS  
ENGINEER OF RECORD: GARY J. NADEAU, P.E.

P.E. NO. 49629

FISCAL YEAR	SHEET NO.
06	1

Latitude: 27.5169712 North  
Longitude: -82.71208695 West



**LEGEND #**

- [Symbol] = SP, Poorly graded sands and gravelly sands, little or no fines.
- [Symbol] = SP-SM, Poorly graded sands and gravelly sands, to silty sands, sand-silt mixtures.
- [Symbol] = SM, Silty sands, sand-silt mixtures.
- [Symbol] = MH, Inorganic silts micaceous or diatomaceous fine sands or silts, elastic silts.
- [Symbol] = CH, Inorganic clays of high plasticity, fat clays.

**NOTES #**

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

- [Symbol] = Casing Used
- [Symbol] = Water Table
- [Symbol] = SPT Boring Location
- \* = Drilled through R.B.A.C.
- Type Rig = Diedrich
- Hammer Used = Automatic
- W = 100 % loss of circulating water, (unless otherwise noted)

**BENCHMARK LOCATION DESCRIPTION**

TBM on sea wall NW of bridge given by survey crew, Elevation 3.4 feet, NGVD.

**Corrosion Series Test Results (Water)**

Resistivity	Chlorides	Sulfates	pH
Ohms - cm	ppm	ppm	
27	32,000	12	8.3

**ENVIRONMENTAL CLASSIFICATION**

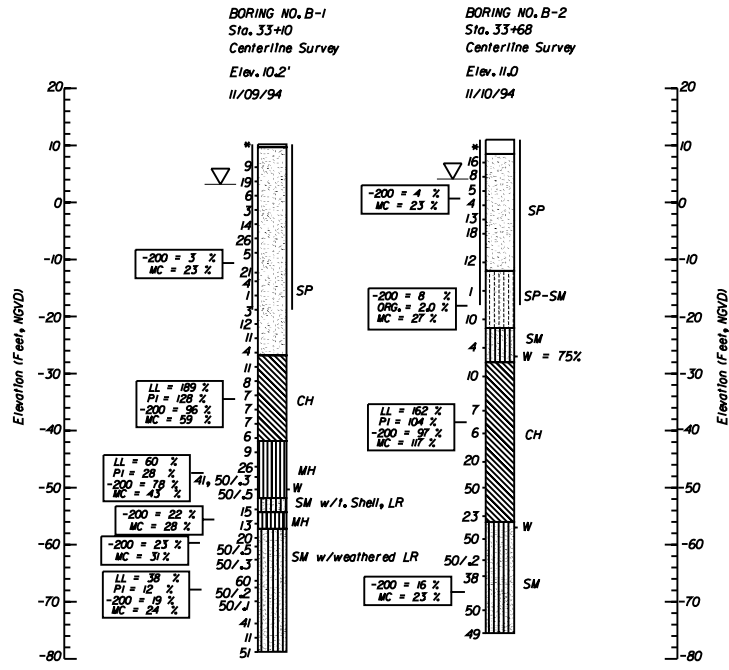
Superstructure = Extremely Aggressive  
Substructure = Extremely Aggressive

**GRANULAR MATERIALS-**

Relative Density	Safety Hammer SPT N-Value Blow/Foot	Automatic Hammer SPT N-Value Blow/Foot
Very Loose	Less than 4	Less than 3
Loose	4 - 10	3 - 7
Medium Dense	10 - 30	7 - 20
Dense	30 - 50	20 - 35
Very Dense	Greater than 50	Greater than 35

**SILTS AND CLAYS-**

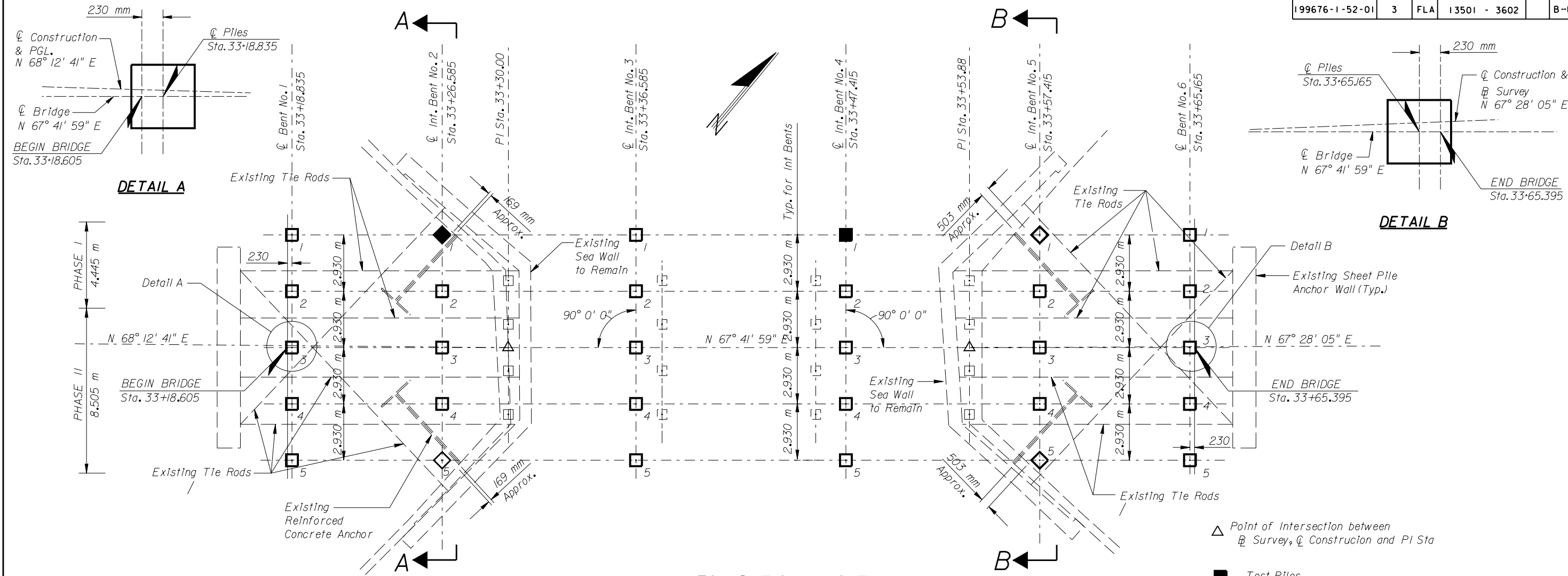
Consistency	Safety Hammer SPT N-Value Blow/Foot	Automatic Hammer SPT N-Value Blow/Foot
Very Soft	Less than 2	Less than 1
Soft	2 - 4	1 - 3
Firm	4 - 8	3 - 6
Stiff	8 - 15	6 - 10
Very Stiff	15 - 30	10 - 20
Hard	Greater than 30	Greater than 20



REVISIONS				ENGINEER OF RECORD				FLORIDA DEPARTMENT OF TRANSPORTATION				REPORT OF CORE BORINGS	
DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION	DRAWN BY	DATE	ROAD NO.	COUNTY	FINANCIAL PROJECT ID	PROJECT NAME	KEY ROYAL BRIDGE	
8/13/97	MEH	Strata depths corrected (B-2) N values corrected (B-1, B-2) Bridge drawing revised Location section corrected Benchmark Elevation corrected	05/05/05	MEH	Metric measures converted to English measures	DMC	05/97		MANATEE	199676-1-52-01			
				Teresa Nelson Puckett, P.E.				DISTRICT 1 801 S. Broadway Ave. Tallahassee, Florida 32309-3809				SHEET NO.	

NOTICE: THE OFFICIAL RECORD OF THIS SHEET IS THE ELECTRONIC FILE SIGNED AND SEALED UNDER RULE 61G05-23.003, F.A.C.

FINANCIAL MANAGEMENT ID NO.	FED. ROAD DIV. NO.	STATE	PROJECT NO.	FISCAL YEAR	SHEET NO.
199676-1-52-01	3	FLA	13501 - 3602		B-12



### FOUNDATION LAYOUT

All Piles To Be 610 mm S.Q.  
Precast Concrete Piles.

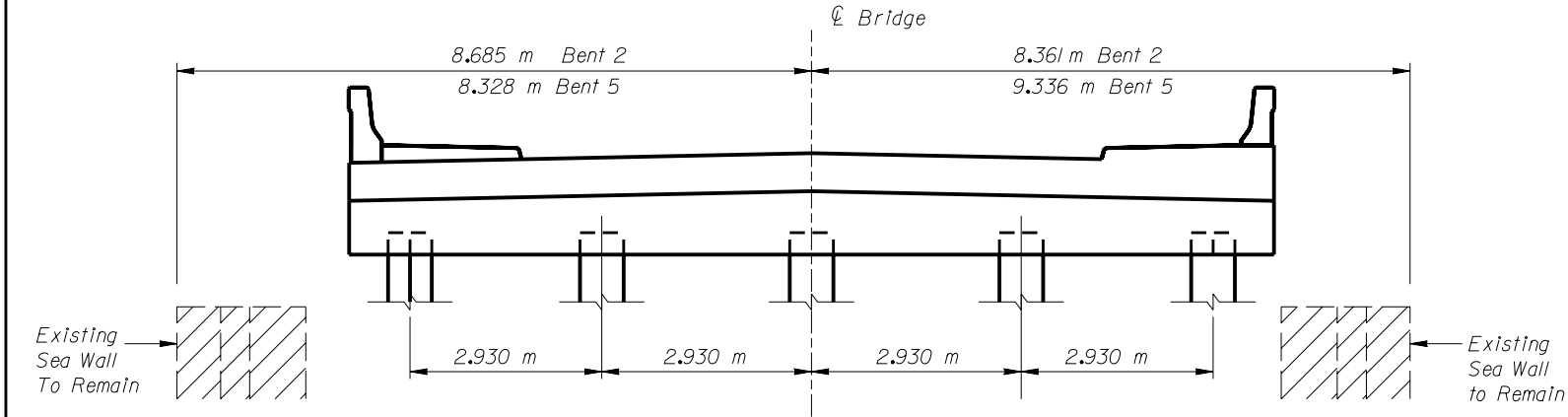
- △ Point of Intersection between  
B Survey, C Construction and PI Sta
- Test Piles
- Existing Intermediate Bent Piles to be removed
- ▣ Proposed Piles

The location and size of the existing Tie Rods is to be verified by the Contractor. The Contractor is to predrill or otherwise pe-excavate in the Position of all Piles on Bents 1, 2, 5 and 6 to confirm no interference with the Existing works prior to installing piles. If necessary the Piles may be battered up to 10% to avoid any interference. To be included in the cost of Prestressed Concrete Piling (610 mm sq.) Pay Item 2455-34-5.

Contractor is to avoid any damage to the existing works.

For Pile Installation Table see Sheet B-13.

Where Prestressed Piles are to be installed near or adjacent to existing bulkhead or the existing structure, the Contractor is to use caution to not damage existing structure, and to submit a detailed procedure to the Engineer to review and approve.



### SECTION A-A BENT 2 & SECTION B-B BENT 5 (Similar except where noted)

REVISIONS						Names	Dates	ENGINEER OF RECORD: <b>AVART, INC.</b> 1700 SW 57 AVE. #209 MIAMI, FLORIDA 33155 TEL.: (305) 261-2006	LOGO:  ENGINEERS/ARCHITECTS	SEAL: 	 <b>FLORIDA DEPARTMENT OF TRANSPORTATION</b> <b>STRUCTURE DESIGN OFFICE</b>	SHEET TITLE: <i>FOUNDATION LAYOUT (SHEET 1)</i>	Drawing No. .
Date	By	Description	Date	By	Description	Drawn by <b>JL</b>	<b>3/99</b>					PROJECT NAME: <i>KEY ROYALE BRIDGE #136502</i>	Index No. .
						Checked by <b>EK</b>	<b>3/99</b>						
						Designed by <b>EK</b>	<b>3/99</b>						
						Checked by <b>AJM</b>	<b>3/99</b>						
						Approved by <b>AJM</b>							
								ROAD NO. COUNTY PROJECT NO.		S.R. 789 MANATEE 13501 - 3602			