



**II. FISCAL IMPACT ANALYSIS**

**A. Five Year Summary of Fiscal Impact:**

Fiscal Years	2010	2011	2012	2013	2014
Capital Expenditures	\$ -0-	-0-	-0-	-0-	-0-
Operating Costs	-0-	-0-	-0-	-0-	-0-
External Revenues	-0-	-0-	-0-	-0-	-0-
Program Income (County)	-0-	-0-	-0-	-0-	-0-
In-Kind Match (County)	-0-	-0-	-0-	-0-	-0-
<b>NET FISCAL IMPACT</b>	<b>* \$ -0-</b>	<b>-0-</b>	<b>-0-</b>	<b>-0-</b>	<b>-0-</b>

# ADDITIONAL FTE POSITIONS (Cumulative) \_\_\_\_\_

Is Item Included in Current Budget? Yes \_\_\_\_\_ No \_\_\_\_\_  
 Budget Acct No.: Fund \_\_\_ Dept. \_\_\_ Unit \_\_\_ Object \_\_\_\_\_  
 Program \_\_\_\_\_

**B. Recommended Sources of Funds/Summary of Fiscal Impact:**

\* County Transportation Trust Fund 1201  
 Railroad Crossing Maintenance 360-2270

This item has no additional fiscal impact. The FEC will make improvements which will be reimbursed by the State. The County is currently responsible for the maintenance and will continue to fund the maintenance for railroad crossings.

C. Departmental Fiscal Review: Shirley White

**III. REVIEW COMMENTS**

**A. OFMB Fiscal and/or Contract Dev. and Control Comments:**

[Signature] 3/26/2010  
 OFMB  
 3/25/10  
 3/25/10

[Signature] 3/29/10  
 Contract Dev. and Control  
 Jones 3/29/10

**B. Approved as to Form and Legal Sufficiency:**

This Contract complies with our contract review requirements.

[Signature] 4/9/10  
 Assistant County Attorney

**C. Other Department Review:**

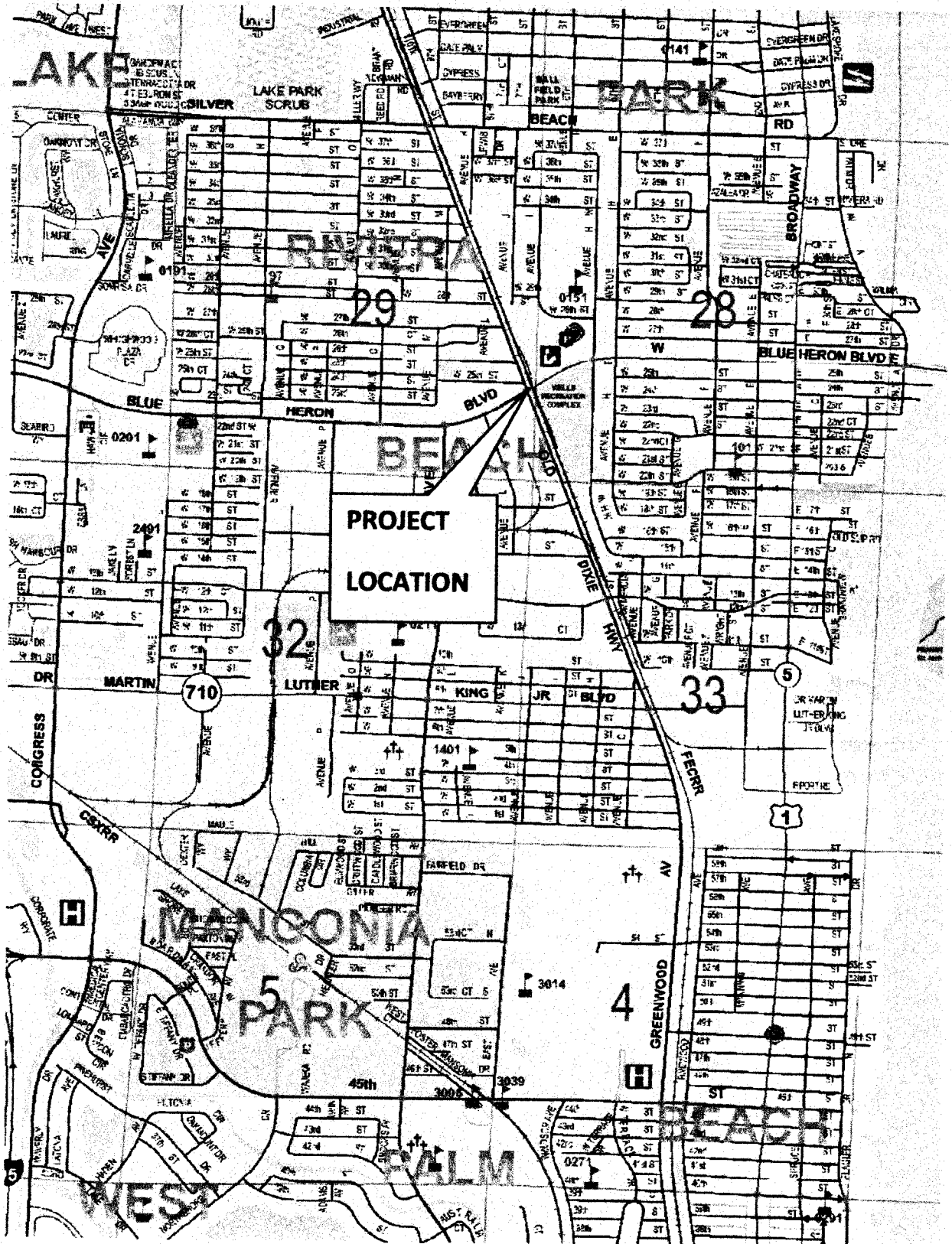
\_\_\_\_\_  
 Department Director

**This summary is not to be used as a basis for payment.**

**Background and Justification:** Continued from page 1

In order to clear highway traffic from the railroad grade crossing when trains approach, and to provide for improved operational efficiency of the highway system during train passage, it is necessary to synchronize the traffic signals with the railroad protective devices. FDOT will reinstall or have reinstalled the synchronization devices at the time of the crossing reconstruction. The County will own and maintain the junction box and synchronization cable between FEC's equipment and the traffic signal equipment.

This office, having reviewed said Agreement, recommends the Board of County Commissioners adopt the accompanying Resolution authorizing execution of the Agreement.



BLUE HERON BOULEVARD AT OLD DIXIE HIGHWAY/FEC RAILROAD

**RESOLUTION NO. R-2010-\_\_\_\_\_**

**RESOLUTION OF THE BOARD OF COUNTY COMMISSIONERS OF PALM BEACH COUNTY, FLORIDA AUTHORIZING EXECUTION OF RAILWAY SYNCHRONIZATION OF GRADE CROSSING AND HIGHWAY SIGNAL DEVICES (WITH SIGNAL HEADS MOUNTED ON RAILROAD TRUSS), SOUTH FLORIDA RAIL CORRIDOR AGREEMENT WITH THE FLORIDA EAST COAST RAILWAY, INC. (FEC) AND THE FLORIDA DEPARTMENT OF TRANSPORTATION (FDOT) AT BLUE HERON BOULEVARD.**

**WHEREAS**, FDOT is planning an intersection improvement project on Blue Heron Boulevard at Old Dixie Highway; and

**WHEREAS**, the FDOT wishes to have installed synchronization devices for the synchronization of the highway traffic control devices, highway signal devices on the overhead truss along with the cantilever and FEC railway warning devices at the subject crossing at the time of the intersection improvement project; and

**WHEREAS**, FDOT will fund the cost of installation of the signals, synchronization equipment and construction on the FEC's right-of-way without cost to Palm Beach County (the County) and

**WHEREAS**, The County currently maintains the highway signal devices, per agreement with FDOT, at Blue Heron Boulevard; and

**WHEREAS**, PBC will maintain only the common cable junction box, the interconnecting cable and the highway signal devices; and

**NOW, THEREFORE, BE IT RESOLVED BY THE BOARD OF COUNTY**

**COMMISSIONERS OF PALM BEACH COUNTY FLORIDA:**

That the County enter into the agreement with FDOT and FEC for the use of the synchronization hardware and use of the highway signal devices on the overhead truss and cantilever, and

That the Chairman of the Board of County Commissioners be authorized to enter into such agreements with the FDOT and FEC, as herein described: and

That this RESOLUTION shall take effect immediately upon adoption.

RESOLUTION NO. 2010-  
April 20, 2010

The foregoing Resolution was offered by Commissioner \_\_\_\_\_ who moved its adoption. The motion was seconded by Commissioner \_\_\_\_\_ and upon being put to a vote was as follows:

Commissioner Burt Aaronson, Chair	-
Commissioner Karen T. Marcus, Vice Chair	-
Commissioner Jeff Koons	-
Commissioner Shelley Vana	-
Commissioner Steven L. Abrams	-
Commissioner Jess R. Santamaria	-
Commissioner Priscilla A. Taylor	-

The Chairperson thereupon declared the resolution duly passed and adopted \_\_\_\_\_.

PALM BEACH COUNTY, FLORIDA, BY  
SHARON R. BOCK, CLERK & COMPTROLLER

By: \_\_\_\_\_  
Deputy Clerk

S E A L

APPROVED AS TO FORM  
AND LEGAL SUFFICIENCY

By: \_\_\_\_\_  
(County Attorney)

**RAILROAD REIMBURSEMENT AGREEMENT  
 SYNCHRONIZATION OF GRADE CROSSING AND  
 CROSSING TRAFFIC CONTROL DEVICES-COUNTY  
 (Traffic signal heads mounted on the Railroad truss)**

FINANCIAL PROJECT ID	ROAD NAME OR NUMBER	COUNTY NAME	PARCEL AND R/W NUMBER	FAP NUMBER
411431-2-57-01	SR-708 (Blue Heron Blvd.)	Palm Beach	1(93000-PREW)	

**THIS AGREEMENT**, made and entered this \_\_\_\_\_ day of \_\_\_\_\_, \_\_\_\_\_, by and between the **STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION**, hereinafter called the **DEPARTMENT**, and **FLORIDA EAST COAST RAILWAY L.L.C.**, a Limited Liability Company organized and existing under the laws of **FLORIDA**, with its principal place of business in the city of **JACKSONVILLE**, County of, **DUVAL** State of **FLORIDA**, hereinafter called **FEC**; and the **COUNTY** of **PALM BEACH** a political subdivision of the State of Florida, hereinafter called the **COUNTY**.

**WHEREAS**, train-activated railroad grade crossing warning devices, hereinafter called "Crossing Warning Devices", presently exist or shall be installed at the railroad/highway grade crossing on **SR-708 / Blue Heron Boulevard**, which crosses at grade **FEC** Property at Railroad Milepost **294 + 2,482'** **FDOT / AAR** crossing number **272390-P** in or near **Riviera Beach**, Florida; and

**WHEREAS**, an existing or proposed highway-to-highway intersection exists adjacent to or in close proximity to the aforementioned grade crossing; and, the **DEPARTMENT** and **COUNTY**, in the interest of safety, desire that the Crossing Warning Devices be synchronized with existing and/or proposed highway traffic signal devices, hereinafter called "Highway Signal Devices", so as to assist in clearing highway traffic from the grade crossing upon the approach of trains, and to provide for improved operational efficiency of the highway system during train passage, hereinafter referred as the "project".

**WHEREAS**, the work to be contemplated hereunder is subject to the provisions of the Federal Highway Administration Federal -Aid Policy Guide, 23 C.F.R. Subchapter B, Part 140, Subpart I, as amended, and Federal -Aid Policy Guide, 23 C.F.R. Subchapter G, Part 646, Subpart B, as amended and **DEPARTMENT'S** Rule 14-57.011 Florida Administrative Code as amended; and

**WHEREAS**, words that are not otherwise defined herein shall have the meaning ascribed to them in the Purchase Agreement.

**NOW, THEREFORE**, in consideration of the mutual undertaking as herein set forth, the parties agree as follows:

1. The **FEC**, at **DEPARTMENT'S** expense, will furnish and install a preemption synchronization circuit of the "closed loop fail safe design principle", (in which the normally closed electrical contacts will open on approach or presence of a train), to a common cable junction box and install other equipment necessary to provide **30** seconds total preemption time. The installation of the junction box will be done near or adjacent to the **COUNTY'S** Highway Signal Devices control cabinet.
2. The **DEPARTMENT** at its expense, will install or have installed all cable, circuitry and related equipment, required to operate the Highway Signal Devices in a coordinated and synchronized manner; will provide the connecting cable from the Highway Signal Devices to the common cable junction box with sufficient cable to be connected to terminals in **FEC's** control case, and will configure the preemption circuit with its system whereby a failure of the Highway Signal Devices will create a safe condition for both the rail corridor and the roadway. The **DEPARTMENT** will furnish **FEC** a written and/or graphic description of the Highway Signal Devices, both in operational mode and failed mode preempted sequence mode, attached hereto as Exhibit A (Signalization plan T-4).
3. The common cable junction box and inter-connecting cable from the common cable junction box to the Highway Signal Devices shall be deemed the property of the **COUNTY**, and shall be maintained by the **COUNTY**. The inter-

connecting cable from the common cable junction box to the Crossing Warning Devices shall be maintained by FEC. The parties hereto shall each have access to the common junction box in order to perform appropriate maintenance and testing.

4. The **DEPARTMENT** at its expense will construct the project, and the **COUNTY**, upon final acceptance of the installation, will operate and maintain the Highway Signal Devices. The **COUNTY** agrees to give **FEC** sufficient notice prior to making any changes in the operation thereof which, in any way, might affect the coordination features of the Crossing Warning Devices. Said Highway Signal Devices for eastbound and westbound **SR 708 / Blue Heron Boulevard**, shall be mounted on the **FEC** cantilevers as shown on the plans attached hereto. In the event said Highway Signal Devices, and/or coordinating facilities of the **COUNTY** become inoperative, **COUNTY** will notify **FEC** and restore or repair such devices and/or facilities promptly, and use other means including, traffic control personnel or law enforcement personnel to control the flow of traffic at the traffic signal locations at any time the Highway Signal Devices or preemption are inoperative so as to clear the highway/railroad grade crossing before the approach of trains.
5. The **FEC** at its expense will operate and maintain the Crossing Warning Devices, overhead trusses and cantilevers and likewise agrees to give the **COUNTY** sufficient advance notice prior to making any changes in the operation thereof which, in any way, would affect the coordination features of the **COUNTY'S** Highway Signal Devices. In the event said Crossing Warning Devices and/or coordination facilities of **FEC** become inoperative, **FEC** will notify **COUNTY** and restore or repair such devices and/or facilities.
6. Attached hereto as Exhibit A, and by this reference made a part hereof, are plans and /or operational design sheets numbered DWG NO 01-E-151 with specifications of work to be performed by **FEC** pursuant to the terms hereof, and an estimate of the cost thereof (including the common cable junction box) payable to **FEC** by the **DEPARTMENT** in the amount of \$ 532,710.00. All work performed by **FEC** shall be performed in accordance with these plans and specifications as approved by the **DEPARTMENT**, the **COUNTY**, and the **FEDERAL HIGHWAY ADMINISTRATION** if the project is a federal aid participating project; and all subsequent plan changes shall likewise be approved by the parties.
7. Notwithstanding anything in this agreement to the contrary, the cost of any adjustment, relocation or replacement of said synchronization devices and equipment related Highway Signal Devices, upon written notice from the **FEC**, that the relocation is necessary due to railroad operations, including but not limited to, track relocation, maintenance or replacement, or because of changes or additions to the **FEC** train control signal or communication equipment, shall be borne by the **DEPARTMENT**.
8. **FEC** shall have no responsibility or liability for any loss of life or injury to persons, or loss of or damage to property, growing out of or arising from the irregular operation of the Highway Signal Devices of the **COUNTY** and/or **FEC'S** Crossing Warning Devices resulting from or in any manner attributed to the malfunction of the **COUNTY'S** Highway Signal Devices on **FEC'S** overhead truss or cantilever. Provided however, that the provisions of this article shall have no application to any loss, injury or damage growing out of or resulting from the failure or improper operation of the Crossing Warning Devices when such failure or improper operation is not attributed the **COUNTY'S** Highway Signal Devices; it being the intention of the parties that **FEC** shall have the same responsibilities and obligations with respect to the Crossing Warning Devices and the operation thereof as set forth in this Agreement, and the **COUNTY** shall have and assume sole responsibility for its Highway Signal Devices on the overhead truss and cantilever and the operation or functioning thereof.
9. The **DEPARTMENT** will be responsible for claims and demands arising out of the work undertaken by the **DEPARTMENT** pursuant to this Agreement due to the negligent actions, done or committed by the **DEPARTMENT**, its contractors, employees, agents, or representatives in connection with the work done on the overhead truss or cantilever. The **FEC** will be responsible for claims and demands arising out of the work undertaken by the **FEC** pursuant to this Agreement due to the negligent actions, done or committed by the **FEC**, its contractors, employees, agents, or representatives in connection with the work done on the overhead truss or cantilever.
10. ~~FEC covenants and agrees that it will indemnify and hold harmless for DEPARTMENT'S officers, agents, and employees from any claim, loss, damage, cost charge, or expense arising out of any action, neglect, omission, or delay by FEC during the performance of the contract, whether direct or indirect, and whether to any person or property to which the DEPARTMENT or said parties may be subject, except that neither FEC nor any of its~~



~~subcontractors will be liable under this section for damages arising out of injury or damage to persons or property directly caused or resulting from sole negligence of the DEPARTMENT, or any of its officers, agents, or employees.~~

11. Either party may make changes to their own equipment in any manner and agree to reimburse the other party for any expenses incurred by the other party as a result of such changes; provided, however that the cost of any adjustment, relocation of cable, circuitry, and related equipment as related to the Highway Signal Devices necessary due to railroad operations or changes or additions to the COMPANY'S train control Signals or communication equipment, shall be treated as set forth in paragraph 7 hereof. 72 hours notice shall be given prior to work, which will have an effect on the other party. The 72 hour notice shall be waived in case of emergencies.
12. If for any reason the overhead truss or cantilever is damaged or destroyed by a third party, the FEC and the DEPARTMENT agree to share in the expense not covered by the insurance or indemnification of the third party, in repair or replacement, including all materials, equipment, labor for said repair or replacement of the overhead truss or cantilever only, on a 50% actual cost basis per party
13. In the event of damage to the overhead truss or cantilever, the County shall be responsible for its own control devices, including any temporary structures or devices necessary for the mounting of the Highway Signal Devices, and the FEC shall be responsible for their own control devices, including any temporary structures or devices necessary for the mounting of the Railroad Warning Devices.
14. Upon completion of the work, FEC shall, within one hundred eighty (180) days, furnish the DEPARTMENT with two (2) copies of its final and complete billing of all costs incurred in connection with the work performed hereunder, such statement to follow as closely as possible the order of items contained in the estimate attached hereto. The totals for labor, overhead, travel expense, transportation, equipment, material and supplies, handling costs and other services shall be shown in such a manner as will allow ready comparison with the approved plans and estimates. Materials shall be itemized where they represent major components of cost in the relocation following the pattern set out in the approved estimate as closely as possible.  
  
Adequate reference shall be made in the billing to FEC'S records, accounts and other relevant documents. All cost records and accounts shall be subject to audit by a representative of the DEPARTMENT. Upon receipt of invoices, prepared in accordance with the provisions of the above-indicated Reimbursement Policy the DEPARTMENT agrees to reimburse FEC in the amount of such actual costs approved by the DEPARTMENT'S auditor.
15. All salvage value of materials resulting from work contemplated herein shall be subject to the salvage provision of the Operating and Management Agreement Phase A
16. Payment shall be made only after receipt and approval of goods and services unless advance payments are authorized by the State Comptroller under Section 215.422, Florida Statutes.
17. In accordance with Section 287.058, Florida Statutes, the following provisions are in this Agreement: If this Contract involves units of deliverables, then such units must be received and accepted in writing by the Contract Manager prior to payments. Bills for fees or other compensation for services or expenses shall be submitted in detail sufficient for a proper pre-audit and post-audit thereof.
18. In accordance with Section 215.422, Florida Statutes, the followings provisions are in this Agreement: Contractors providing goods and services to the DEPARTMENT should be aware of the following time frames. Upon receipt, the DEPARTMENT has five (5) working days to inspect and approve the goods and services, unless the Agreement specifies otherwise. The DEPARTMENT has 20 days to deliver a request for payment (voucher) to the Department of Banking and Finance. The 20 days are measured from the latter of the date the invoice is received or the date the goods or services are received, inspected, and approved.

If a payment is not available within 40 days, a separate interest penalty at a rate as established pursuant to Section 215.422 (3)(b), Florida Statutes, will be due and payable in addition to the invoice amount, to the Contractor. Interest penalties of less than one (1) dollar will not be enforced unless the Contractor requests payment. Invoices which have to be returned to a Contractor because of Contractor preparation errors will result in a delay in the payment. The invoice payment requirements do not start until a properly completed invoice is provided to the DEPARTMENT.

A vendor Ombudsman has been established within the Department of Banking and Finance. The duties of this individual include acting as an advocate for contractors/vendors who may be experiencing problems in obtaining timely payment(s) from a state agency. The Vendor Ombudsman may be contacted at (850) 410-9724, or by calling the State Comptroller's Hotline, 1-800-848-3792.

19. Records of costs incurred under terms of this Agreement shall be maintained and made available upon request to the **DEPARTMENT** at all times during the period of this Agreement and for three years after final payment is made. Copies of these documents and records shall be furnished to the **DEPARTMENT** upon request. Records of costs incurred includes the Contractor's general accounting records and the project records, together with supporting documents and records, of the Contractor and all subcontractors performing work on the project, and all other records of the Contractor and subcontractors considered necessary by the **DEPARTMENT** for a proper audit of costs.

20. In the event this contract is for services in excess of **TWENTY FIVE THOUSAND DOLLARS (\$25,000.00)** and a term for a period of more than one year, the provisions of Section 339.35(6) (a), Florida Statutes, are hereby incorporated:

The **DEPARTMENT**, during any fiscal year, shall not expend money, incur any liability, or enter into any contract which, by its terms, involves the expenditure of money in excess of the amounts budgeted as available for expenditure during such fiscal year. Any contract, verbal or written, made in violation of this subsection is null and void, and no money may be paid on such contract. The **DEPARTMENT** shall require a statement from the Comptroller of the **DEPARTMENT** that such funds are available prior to entering in any such contract or other binding commitment of funds. Nothing herein contained shall prevent the making of contracts for periods exceeding one year, but any contract so made shall be executory only for the value of the services to be rendered or agreed to be paid for in succeeding fiscal years; and this paragraph shall be incorporated verbatim in all contracts of the **DEPARTMENT** which are for an amount in excess of **TWENTY FIVE THOUSAND DOLLARS (\$25,000.00)** and which have a term for a period of more than one year.

21. In accordance with Section 287.133 (2)(a), Florida Statutes, the following provisions are included in this Agreement:

A person or affiliate who has been placed on the convicted vendor list following a conviction for a public entity crime may not submit a bid, proposal, or reply on a contract to provide any goods or services to a public entity; may not submit a bid, proposal, or reply on a contract with a public entity for the construction or repair of a public building or public work; may not submit bids, proposals, or replies on leases of real property to a public entity; may not be awarded or perform work as a contractor, supplier, subcontractor, or consultant under a contract with any public entity; and may not transact business with any public entity in excess of the threshold amount provided in s. 287.017 for CATEGORY TWO for a period of 36 months following the date of being placed on the convicted vendor list.

22. In accordance with Section 287.0582, Florida Statutes, the following provisions are included in this Agreement:

The **DEPARTMENT'S** obligation to pay under this section is contingent upon an annual appropriation by the Florida Legislature.

23. The **DEPARTMENT** reserves the right to unilaterally cancel this Agreement for refusal by the contractor or Agency to allow public access to all documents, papers, letters, or other material subject to the provisions of Chapter 119, Florida Statutes, and made or received in conjunction with this Agreement.

24. If any existing contract exists between **FEC** and either the **COUNTY** or **DEPARTMENT**, or a third party, by which this grade crossing is opened or maintained, or by which other crossing devices or highway signal devices are installed and maintained, then that contract shall remain in full force and effect, except when in conflict with this synchronization Agreement.

25. This Agreement is of an indefinite, but unperpetual duration and shall terminate upon the removal of the aforementioned rail-highway grade crossing or upon removal of either the Highway Signal Devices or Crossing Warning Devices.

26. In the event any of the parties hereto desire an assignment of this Agreement, it shall be said party's responsibility to obtain written acceptance of the assignment by the new party to the Agreement.
27. Upon execution by all parties, and after all crossing surface and signal work has been placed in service, this agreement will supersede and cancel the Grade Crossing and Crossing Traffic Control Devices Agreement between the State of Florida Department of Transportation, the Florida East Coast Railway L.L.C. and Palm Beach County dated October 31, 2006
28. Any notices required or permitted to be given under this Agreement shall be in writing and shall be deemed to have been given if delivered by hand, sent by recognized overnight courier (such as Federal Express) or mailed by certified or registered mail, return receipt requested, in a postage-prepaid envelope, and addressed as follows:

If to the Department at: **Florida Department of Transportation**  
3400 West Commercial Boulevard  
Ft. Lauderdale, Florida 33309  
**Att: Rail Coordinator**  
(954)777- 4401

If to FEC **Florida East Coast Railway L.L.C.**  
7411 Fullerton Street, Suite 300  
Jacksonville, FL 32256  
**Att: Leslie Schonder, Manager – Engineering Services**  
(904) 538-6056

If to the County **Palm Beach County.**  
Engineering and Public Works Dept.  
Engineering Services Division  
P.O. Box 21229  
West Palm Beach, FL 33416  
**Att: Andy Hartmann, Technical Assistant III**  
(561) 684-4053

29. Provision ten (10) was stroke through prior to the agreement execution.

\* \* \* \* \*

IN WITNESS WHEREOF, the parties hereto have made and executed this Synchronization Agreement as of the day and year first above written.

COUNTY:

PALM BEACH COUNTY, FLORIDA,  
A Political Subdivision of the State of Florida

BOARD OF COUNTY COMMISSIONERS

BY: \_\_\_\_\_  
Burt Aaronson, Chair

ATTEST:  
Sharon R. Bock, Clerk  
Circuit Court

BY: \_\_\_\_\_  
Deputy Clerk

S E A L

APPROVED AS TO TERMS &  
CONDITIONS: \_\_\_\_\_

By: Mark A. H.  
Engineer

APPROVED AS TO FORM AND  
LEGAL SUFFICIENCY:

By: \_\_\_\_\_  
County Attorney

COMPANY:

Florida East Coast Railway L.L.C.

BY: [Signature]

Attest:  
By: [Signature]  
Assistant Secretary

Witnesses as to Company:

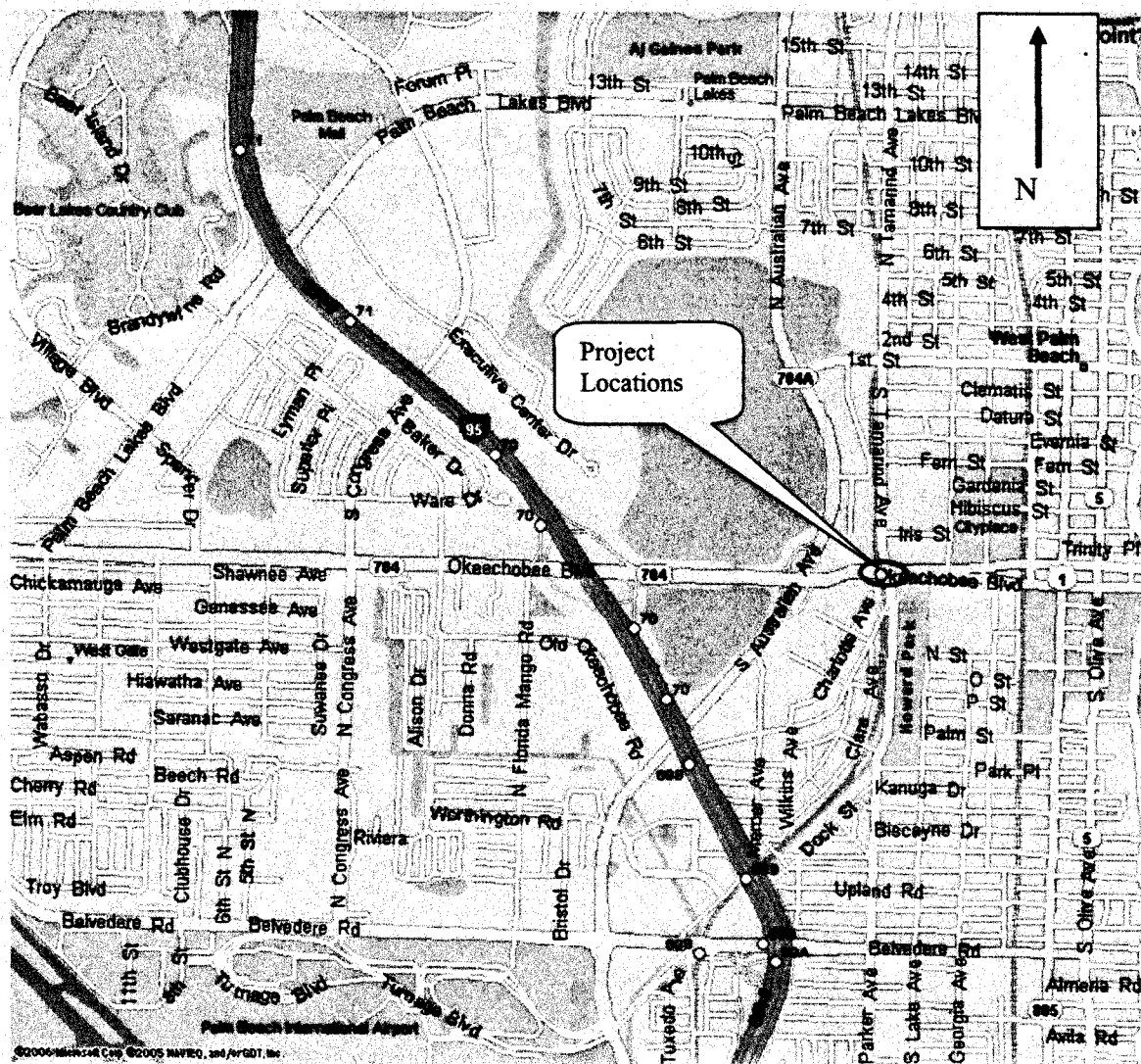
By: [Signature]  
By: [Signature]

Florida Department of Transportation

By: \_\_\_\_\_  
Its: \_\_\_\_\_

Witnesses

\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_



**LOCATION MAP**

**CSX Transportation.**

LOCATION: SR-704 / Okeechobee Boulevard  
 FINANCIAL PROJECT NO.: 229755-1-57-01  
 CROSSING NO.: 628126-V  
 RAILROAD MILEPOST: SX 970.34

**STATE OF FLORIDA  
DEPARTMENT OF TRANSPORTATION  
OFFICE OF MODAL DEVELOPMENT  
DISTRICT IV RAIL OFFICE**

**PROJECT SCOPE AND COST ESTIMATE**

**PROJECT INFORMATION**

**Financial Project No.:** 411431-2-57-01  
**Location:** SR-708 / Blue Heron Boulevard  
**County:** Palm Beach  
**Crossing No.:** 272390-P  
**RR. MP.:** 294+2,482'  
**Company:** Florida East Coast Railway, L.L.C.

This project scope was prepared by: District 4 Railroad Coordinator's Office

**Project Scope:** By Florida East Coast Railway, L.L.C.

Provide materials, labor construction and installation of the shared structure at SR-708 / Blue Heron Boulevard.

**Agreement:** Materials, Labor, Equipment, Installation of railroad signals and shared structure.....\$532,710.00

**TOTAL ESTIMATED COSTS.....\$532,710.00**



FLORIDA EAST COAST RAILWAY  
 OFFICE OF THE GENERAL MANAGER  
 OF SIGNALS AND COMMUNICATIONS

DATE: 8/12/2009  
 FILE: 10.2  
 TYPE: IV  
 CLASS: IV  
 NO. OF DAYS: 20  
 AAR / DOT #: 272390P  
 MILE POST: 294+2482'

Project Type: FDOT

ESTIMATED COST FOR HIGHWAY CROSSING WARNING DEVICES AT BLUE HERON BLVD.  
 This estimate should be considered void after one (1) year.

MATERIAL	UNIT COST	UNITS	TOTAL COST
GATE ASSEMBLIES	\$9,598.00	5 EA.	\$47,990.00
GATES	\$500.00	5 EA.	\$2,500.00
GATE FOUNDATIONS	\$675.00	5 EA.	\$3,375.00
ADDITIONAL FLASHING LIGHTS	\$1,486.00	2 EA.	\$2,972.00
1- BRIDGE 62', 1- CANTILEVER 46'	\$34,597.00	2 EA.	\$69,194.00
CANTILEVER FOUNDATIONS	\$4,370.00	3 EA.	\$13,110.00
6'X 6' & 4'X 4' WIRED CASES WITH CWT	\$97,685.00	1 EA.	\$97,685.00
GENERATOR CASE W/ TRANSFER SWITCH	\$5,615.00	1 EA.	\$5,615.00
BATTERY BOX	\$675.00	2 EA.	\$1,350.00
BATTERIES, SAFT SPL250	\$250.00	50 EA.	\$12,500.00
MISC. GROUND MATERIAL	\$3,443.20	1 PKG.	\$3,443.20
CONDUIT & DIRECTIONAL BORE	\$45.00	320 FT.	\$14,400.00
CABLE	\$14,400.00	1 PKG.	\$14,400.00
MISCELLANEOUS RELAY EQUIPMENT	\$1,120.00	1 PKG.	\$1,120.00
POWER SERVICE	\$1,800.00	1 EA.	\$1,800.00
MONITORING EQUIPMENT	\$12,985.00	1 PKG.	\$12,985.00
SANITATION & DISPOSAL	\$1,500.00	1 PKG.	\$1,500.00
FREIGHT & HANDLING			\$76,110.00
TAX @ 6.5%			<u>\$19,789.00</u>
<b>TOTAL MATERIALS</b>			<b>\$401,838.20</b>
EXCAVATING EQUIPMENT PER DAY	\$417.10	20 DAYS	\$8,342.00
EQUIPMENT RENTAL PER DAY	\$200.00	20 DAYS	\$4,000.00
FOREMAN'S TRUCK PER DAY	\$224.70	20 DAYS	\$4,494.00
GANG TRUCK PER DAY	\$647.30	20 DAYS	\$12,946.00
SUPERVISORS TRUCK PER DAY	\$142.60	20 DAYS	<u>\$2,852.00</u>
<b>EQUIPMENT TOTAL</b>			<b>\$32,634.00</b>
ENGINEERING	\$8,500.00	1	<u>\$8,500.00</u>
<b>ENGINEERING TOTAL</b>			<b>\$8,500.00</b>
CONSTRUCTION SUPERVISION	\$364.00	20 DAYS	\$7,280.00
LABOR ADDITIVE			<u>\$4,203.00</u>
<b>SUPERVISION TOTAL</b>			<b>\$11,483.00</b>
LABOR PER DAY	\$1,286.24		\$25,725.00
NUMBER OF DAYS	20		
LABOR ADDITIVE			<u>\$15,124.00</u>
<b>TOTAL LABOR</b>			<b>\$40,849.00</b>
GANG EXPENSES PER DAY	\$602.00		
NUMBER OF DAYS	20		
<b>TOTAL GANG EXPENSES</b>			<b>\$12,040.00</b>
<b>SUB-TOTAL</b>			<b>\$507,344.20</b>
CONTINGENCIES 5%			<u>\$25,367.00</u>
<b>TOTAL</b>			<b>\$532,710.00</b>

COMPONENTS OF CONTRACT PLANS SET

- ROADWAY PLANS
- SIGNING AND PAVEMENT MARKING PLANS
- SIGNALIZATION PLANS

**STATE OF FLORIDA**  
**DEPARTMENT OF TRANSPORTATION**

**CONTRACT PLANS**

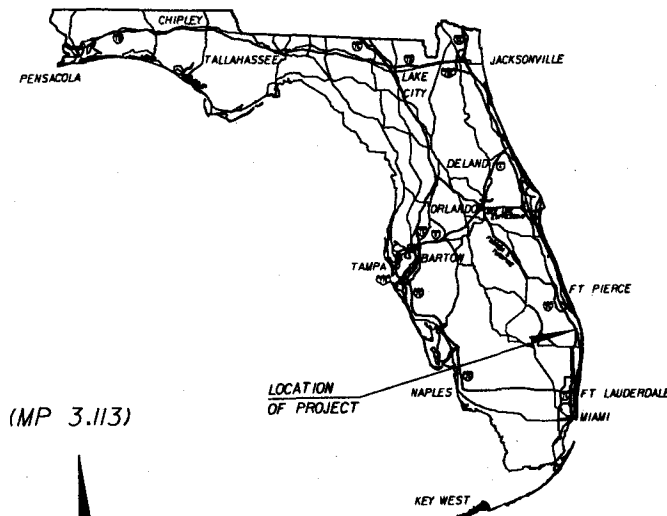
FINANCIAL PROJECT ID 411431-2-52-01

(FEDERAL FUNDS)

PALM BEACH COUNTY (93012)

STATE ROAD NO. 708

FROM WEST OF OLD DIXIE HWY (MP 2.805) TO 1000 FT EAST OF FEC CROSSING (MP 3.113)



A DETAILED INDEX APPEARS ON THE KEY SHEET OF EACH COMPONENT

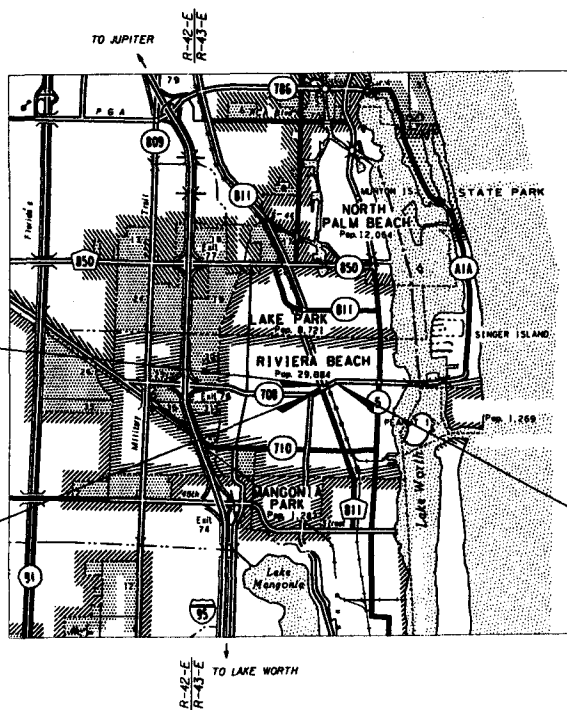
INDEX OF ROADWAY PLANS

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DOT/AAR CROSSING NO. 272390-P  
RR MP 2.923, FEC  
STA. 63+98.13

GOVERNING STANDARDS AND SPECIFICATIONS:  
FLORIDA DEPARTMENT OF TRANSPORTATION,  
DESIGN STANDARDS DATED 2010,  
AND STANDARD SPECIFICATIONS FOR ROAD AND  
BRIDGE CONSTRUCTION DATED 2010,  
AS AMENDED BY CONTRACT DOCUMENTS.

APPLICABLE DESIGN STANDARDS MODIFICATIONS: 01/01/10  
For Design Standards Modifications click on  
"Design Standards" at the following web site:  
<http://www.dot.state.fl.us/rddesign/>



BEGIN PROJECT  
STA 57+68.33  
MP 2.805

END PROJECT  
STA 73+94.57  
MP 3.113

ROADWAY SHOP DRAWINGS  
TO BE SUBMITTED TO:

SCOTT T. EDGAR, P.E.  
800 FAIRWAY DRIVE, SUITE 190  
DEERFIELD BEACH, FL 33441

PLANS PREPARED BY:

**Jacobs Engineering Group Inc.**

800 FAIRWAY DRIVE, SUITE 190  
DEERFIELD BEACH, FL 33441  
Tel: (954) 246-1234  
Fax: (954) 246-1235  
CERTIFICATE OF AUTHORIZATION No. 2822  
CONTRACT No. CBM07  
VENDOR No. : 95-4081636

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

**PRELIMINARY PLANS  
SUBJECT TO CHANGE**

REVISIONS

LENGTH OF PROJECT		
	LINEAR FEET	MILES
ROADWAY	1626.24	0.308
BRIDGES	0.00	0.000
NET LENGTH OF PROJECT	1626.24	0.308
EXCEPTIONS	0.00	0.000
GROSS LENGTH OF PROJECT	1626.24	0.308

FDOT PROJECT MANAGER: JAMES HUGHES, P.E.

KEY SHEET REVISIONS	
DATE	DESCRIPTION

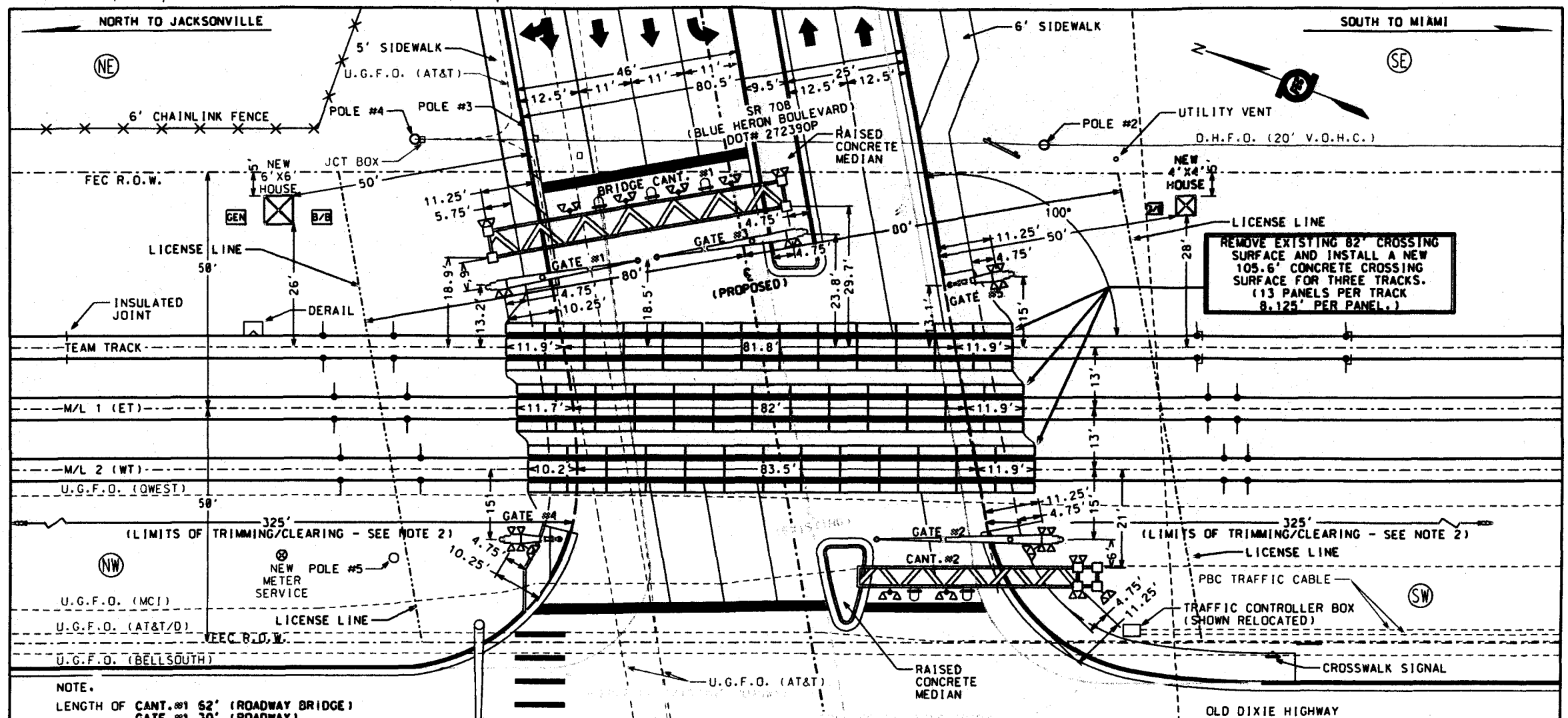
ROADWAY PLANS  
ENGINEER OF RECORD: SCOTT T. EDGAR, P.E.

P.E. NO. 70120

FISCAL YEAR	SHEET NO.
11	1

NOTICE: THE OFFICIAL RECORD OF THIS SHEET IS THE ELECTRONIC FILE SIGNED AND SEALED UNDER RULE 6005-23.003, F.A.C.





REMOVE EXISTING 82' CROSSING SURFACE AND INSTALL A NEW 105.6' CONCRETE CROSSING SURFACE FOR THREE TRACKS. (13 PANELS PER TRACK. 8.125' PER PANEL.)

NOTE.

LENGTH OF	DESCRIPTION
CANT. #1	62' (ROADWAY BRIDGE)
GATE #1	30' (ROADWAY)
CANT. #2	46' (ROADWAY)
GATE #2	37' (ROADWAY)
GATE #3	30' (ROADWAY)
GATE #4	10' (PEDESTRIAN)
GATE #5	11' (PEDESTRIAN)

SURVEY SCALE 1" = 20'

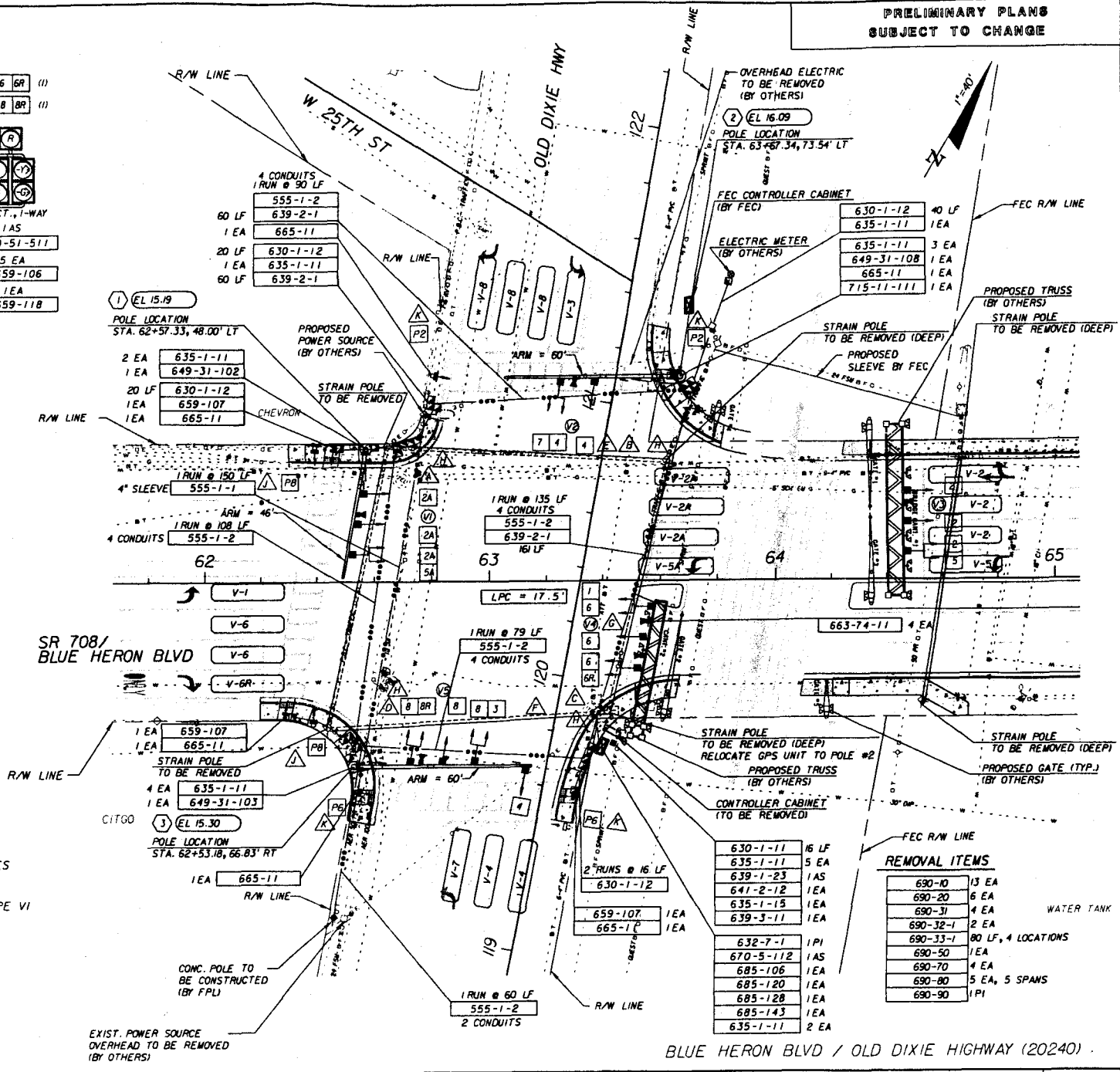
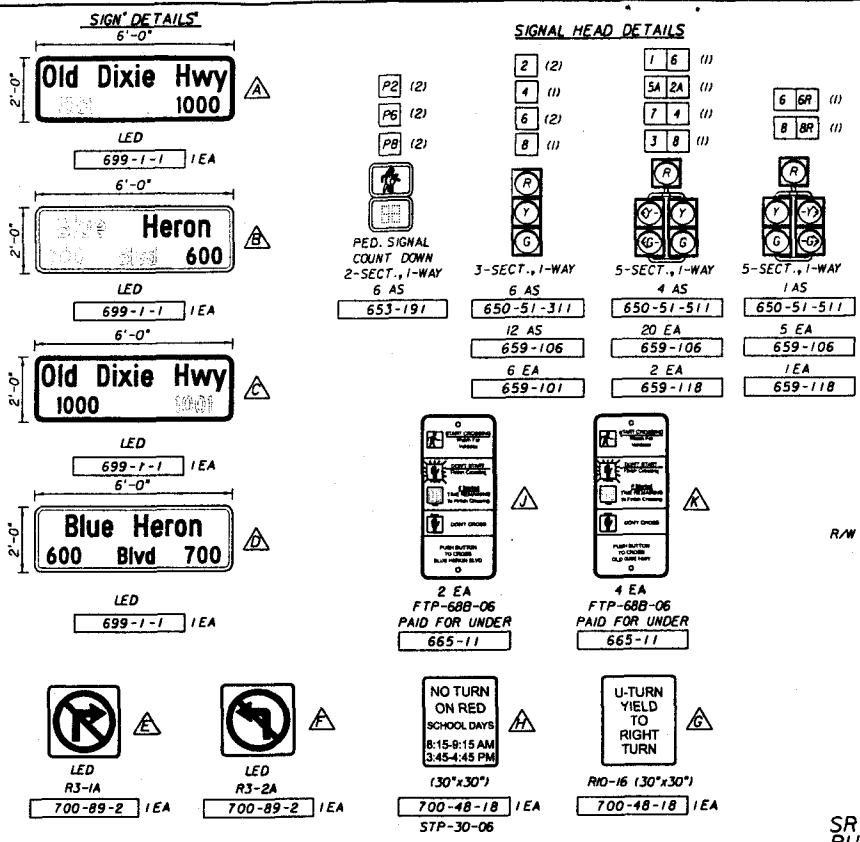
NOTE: SHARED USE CANTILEVER STRUCTURES/ TRAFFIC LIGHT INSTALLATION MUST CONFORM TO STANDARDS AND REQUIREMENTS AS PUT FORTH BY FEC.

**NOTE 1:** CURB & GUTTER, SIDEWALK OR ANY OTHER MASONRY CONSTRUCTION SHALL NOT BE CONSTRUCTED WITHIN 12' OF C/L OF TRACK AS MEASURED PERPENDICULAR TO THE TRACK.

**NOTE 2:** ROADWAY AUTHORITY WILL BE RESPONSIBLE FOR TRIMMING/CLEARING OF ALL VEGETATION WITHIN FEC R.O.W LIMITS TO MAXIMUM 2 HEIGHT FOR A MINIMUM DISTANCE OF 325' FROM EDGE OF ROADWAY ALONG TRACK IN EACH DIRECTION FROM THE CROSSING. TRIMMING/CLEARING WILL BE PERFORMED BY FEC FORCES OR FEC AUTHORIZED CONTRACTOR. ALL COST RELATED TO TRIMMING/CLEARING WILL BE CHARGED TO THE ROADWAY AUTHORITY AS PART OF THE ROADWAY CROSSING LICENSE AGREEMENT.

**NOTE 3:** THE ROADWAY AUTHORITY, OR DESIGNATED CONTRACTOR, SHALL NOT PERFORM TEMPORARY LANE CLOSURES, LANE SHIFTS, OR DETOURS WITHIN THE FLORIDA EAST COAST RAILWAY RIGHT-OF-WAY WITHOUT AUTHORIZATION FROM THE RAILWAY'S SIGNAL DEPARTMENT PERSONNEL. YOU MUST CONTACT FLORIDA EAST COAST RAILWAY AT (904) 534-6056. TO COORDINATE THIS PHASE OF THE PROJECT.

<b>FLORIDA EAST COAST RAILWAY CO.</b> OFFICE OF MANAGER - ENGINEERING SERVICES      JACKSONVILLE			
<b>GRADE CROSSING IMPROVEMENTS</b> <b>BLUE HERON BLVD 294+2482</b> <b>RIVIERA BEACH, (PALM BEACH), FLORIDA</b>			
DRAWN BY	CHA	M P LOC	294+2482
CHECKED BY	TJF	VAL MAP	DATE 06/05/09
FILE NO	DWG NO		



- SQP NOTES:**
- THE MAJOR STREET IS SR 708 (BLUE HERON BOULEVARD) AND THE MINOR STREET IS OLD DIXIE HIGHWAY.
  - FLASHING OPERATION: BLUE HERON - YELLOW OLD DIXIE - RED
  - INTERNALLY ILLUMINATED STREET NAME SIGNS SHALL BE DOUBLE SIDED AND FREE SWINGING MOUNTED.
  - ELEVATIONS SHOWN FOR MAST ARMS ARE APPROXIMATE. CONTRACTOR SHALL FIELD VERIFY PRIOR TO FABRICATION OF MAST ARMS.
  - FLORIDA EAST COAST (FEC) RAILROAD IS RESPONSIBLE FOR INSTALLING TRUSS STRUCTURES AND ALL RELATED SIGNALIZATION EQUIPMENT FOR USE WITH THE TRUSS STRUCTURES.
  - CONTROLLER AND CABINET TO BE USED NAZTEC TS2 TYPE 1NTCIP CONTROLLER WITH TYPE VI CABINET.

REVISIONS		REVISIONS	
DATE	DESCRIPTION	DATE	DESCRIPTION

**Jacobs Engineering Group Inc.**  
800 FAIRWAY DRIVE, SUITE 190  
DEERFIELD BEACH, FL. 33441  
TEL. (954) 246-1234  
CERTIFICATE OF AUTHORIZATION No. 2822  
ENGINEER OF RECORD  
SCOTT T. EDGAR FLORIDA P.E. NO. 70120

STATE OF FLORIDA  
DEPARTMENT OF TRANSPORTATION

ROAD NO.	COUNTY	FINANCIAL PROJECT ID
708	PALM BEACH	411431-2-52-01

BLUE HERON BLVD / OLD DIXIE HIGHWAY (20240)

**SIGNALIZATION PLAN**

SHEET NO.  
T-4

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