

II. FISCAL IMPACT ANALYSIS

A. Five Year Summary of Fiscal Impact:

Fiscal Years	2010	2011	2012	2013	2014
Capital Expenditures	<u>-0-</u>	<u>-0-</u>	<u>-0-</u>	<u>-0-</u>	<u>-0-</u>
Operating Costs	<u>\$1,573</u>	<u>\$1,573</u>	<u>\$1,573</u>	<u>\$1,573</u>	<u>\$1,573</u>
External Revenues	<u>-0-</u>	<u>-0-</u>	<u>-0-</u>	<u>-0-</u>	<u>-0-</u>
Program Income (County)	<u>-0-</u>	<u>-0-</u>	<u>-0-</u>	<u>-0-</u>	<u>-0-</u>
In-Kind Match (County)	<u>-0-</u>	<u>-0-</u>	<u>-0-</u>	<u>-0-</u>	<u>-0-</u>
NET FISCAL IMPACT	<u>\$1,573</u>	<u>\$1,573</u>	<u>\$1,573</u>	<u>\$1,573</u>	<u>\$1,573</u>

ADDITIONAL FTE
POSITIONS (Cumulative) _____

Is Item Included in Current Budget? Yes X No _____
Budget Acct No.: Fund 1201 Dept. 360 Unit 2270 Object 4607
Program

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

County Transportation Trust Fund
Railroad Crossing Maintenance
Repair/Maintenance

Funding is currently included in the FY 2010 budget. Funding in future years is subject to budget approval.

C. Departmental Fiscal Review: Shillwhite

III. REVIEW COMMENTS

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

[Signature]
na 9-11-09 OFMB
9/11/09
9/11/09

[Signature] 9.11.09
Contract Dev. and Control
6. Jones 9/17/09

This Contract complies with our contract review requirements.

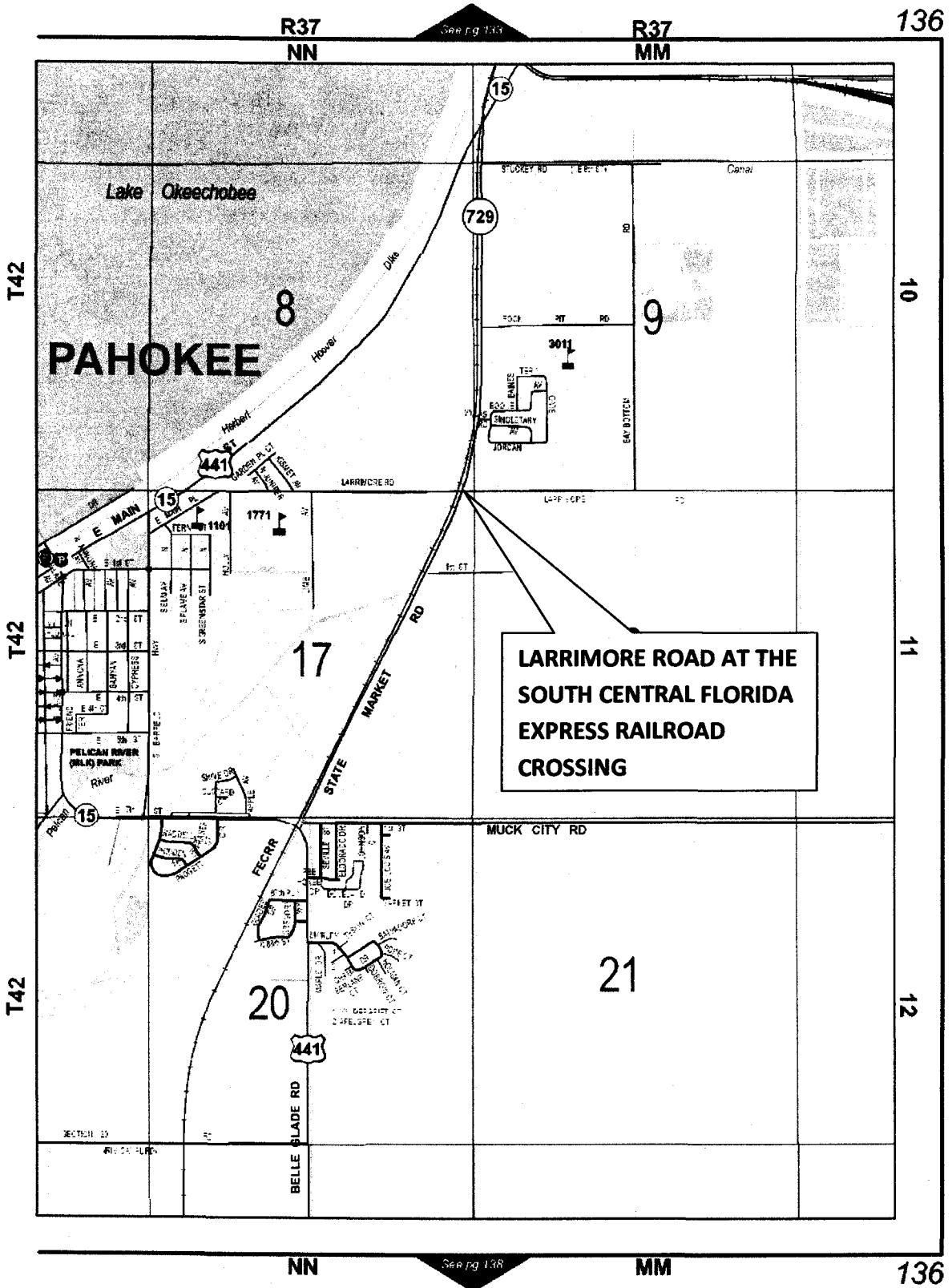
B. Approved as to Form and Legal Sufficiency:

[Signature]
Assistant County Attorney

C. Other Department Review:

Department Director

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



ATTACHMENT 1

RESOLUTION NO. R-2009 _____

**RESOLUTION OF THE BOARD OF COUNTY
COMMISSIONERS OF PALM BEACH COUNTY, FLORIDA
AUTHORIZING EXECUTION OF A RAILROAD
REIMBURSEMENT AGREEMENT WITH THE FLORIDA
DEPARTMENT OF TRANSPORTATION AND THE SOUTH
CENTRAL FLORIDA EXPRESS FOR SAFETY
IMPROVEMENTS AT THE LARRIMORE ROAD RAILWAY
CROSSING**

WHEREAS, the Florida Department of Transportation (FDOT) is constructing, reconstructing or otherwise changing a portion of the Public Road System on Larrimore Road which shall call for the installation of railroad grade crossing traffic control devices for the railroad grade crossing over the Larrimore Road; and

WHEREAS, the FDOT will fund safety improvements to Larrimore Road at the South Central Florida Express (SCFE) crossing designated as Financial Project Number 42575015701 at Crossing Number 272284-G in Pahokee, Florida and

WHEREAS, the SCFE's contractor Progress Rail will construct the safety improvements; and

WHEREAS, Palm Beach County will continue to fund 50% (fifty percent) of the annual maintenance fees of \$1,573 and all of the future maintenance and adjustment costs of said devices.

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

COMMISSIONERS OF PALM BEACH COUNTY FLORIDA:

That Palm Beach County enter into a railroad reimbursement agreement with FDOT and SCFE for the funding, construction and maintenance of the safety improvements, and

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

That this RESOLUTION shall take effect immediately upon adoption.

RESOLUTION NO. 2009-
October 6, 2009

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:

District 2 - JOHN F. KOONS, Chairman

District 5 - BURT AARONSON, Vice Chair

District 1 - KAREN T. MARCUS

District 3 - SHELLEY VANA

District 4 - STEVEN L. ABRAMS

District 6 - JESS R. SANTAMARIA

District 7 - PRISCILLA A. TAYLOR

The Chairperson thereupon declared the resolution duly passed and adopted _____.

SHARON R. BOCK, CLERK & COMPTROLLER

By: _____
Deputy Clerk

S E A L

APPROVED AS TO FORM
AND LEGAL SUFFICIENCY

By: _____
(County Attorney)

PAGE 2 OF 2

ATTACHMENT 2

**RAILROAD REIMBURSEMENT AGREEMENT
GRADE CROSSING TRAFFIC CONTROL DEVICES - COUNTY**

FINANCIAL PROJECT NO.	ROAD NAME OR NUMBER	COUNTY NAME	PARCEL & R/W NUMBER	FAP NUMBER
42575015701	Larrimore Road	PALM BEACH		00S4-047-J

THIS AGREEMENT, made and entered into this _____ day of _____, _____, by and between the STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION, hereinafter called the DEPARTMENT, and South Central Florida Express, Inc., a corporation organized and existing under the laws of Florida, with its principal place of business in the City of Clewiston, County of Palm Beach, State of Florida, hereinafter called the COMPANY; and PALM BEACH County, a political subdivision of the State of Florida, acting by and through its Board of County Commissioners, hereinafter called the COUNTY.

WITNESSETH:

WHEREAS, the DEPARTMENT is constructing, reconstructing or otherwise changing a portion of the Public Road System, designated by the Financial Project ID 42575015701 on Larrimore Road, which crosses at grade the right of way and tracks of the COMPANY'S Milepost K51.71, FDOT/AAR Crossing Number 272284-G, at or near City of Pahokee as shown on DEPARTMENT'S Plan Sheet No. Location Map, attached hereto as a part hereof; and

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

1. The COMPANY shall furnish the necessary materials and install Automatic Grade Crossing Signals Type IV Class III and/or other traffic control devices at said location on an actual cost basis and in accordance with (1) the attached detailed statement of the work, plans, and specifications; and (2) the DEPARTMENT'S Plans and Standard Index Number 17882 attached hereto and made a part hereof.
2. After installation of said signals is completed, fifty (50%) percent of the expense thereof in maintaining the same shall be borne by the COUNTY and fifty (50%) percent shall be borne by the COMPANY, as enumerated by the Schedule of Annual Cost of Automatic Highway Grade Crossing Devices attached hereto and by this reference made a part hereof and subject to future revision.
3. After said signals have been installed and found to be in satisfactory working order by the parties hereto, the same shall be immediately put into service, operated and maintained by the COMPANY so long as said COMPANY or its successors or assigns shall operate the said signals at said grade crossing; or until it is agreed between the parties hereto that the signals are no longer necessary or until the said crossing is abandoned; or legal requirements occur which shall cease operation of signals thereat.

The COMPANY agrees that any future relocation or adjustment of said signals shall be performed by the COMPANY, but at the expense of the party initiating such relocation. Upon relocation the maintenance responsibilities shall be in accordance with the provisions of this agreement. It is further agreed that the cost of maintaining any additional or replacement signal equipment at the same location will be shared as provided under Paragraph 2. above.

4. Unless otherwise agreed upon herein, the COUNTY agrees to insure that at the crossing the advance warning signs and railroad crossing pavement markings will conform to the U.S. Department of Transportation Manual on Uniform Traffic Control Devices within 30 days of notification that the railroad signal improvements have been completed and that such signs and pavement markings will be continually maintained at an acceptable level.

5. The COMPANY hereby agrees to install and/or adjust the necessary parts of its facilities along said road in accordance with the provisions set forth in the:

- (a) DEPARTMENT Procedure No. 725-080-002 Appendix D.4, and Rule 14.57.011 "Public Railroad-Highway Grade Crossing Costs", Florida Administrative Code.
- (b) Federal Highway Administration Federal-Aid Policy Guide, 23 C.F.R. Subchapter G, Part 646, Subpart B, and 23 C.F.R., Subchapter B, Part 140, Subpart I,

and any supplements thereto or revisions thereof, which, by reference hereto, are made a part hereof. The COMPANY further agrees to do all of such work, with its own forces or by a contractor paid under a contract let by the COMPANY, all under the supervision and approval of the DEPARTMENT and the Federal Highway Administration, when applicable.

6. The DEPARTMENT hereby agrees to reimburse the COMPANY for all costs incurred by it in the installation and/or adjustment of said facilities, in accordance with the provisions of Procedure No. 725-080-002 Appendix D-4 "Billing Requirements," and any supplements thereto or revisions thereof. It is understood and agreed by and between the parties hereto that preliminary engineering costs not incorporated within this agreement shall not be subject to payment by the DEPARTMENT.

7. Attached hereto, and by this reference made a part hereof, are plans and specifications of the work to be performed by the COMPANY pursuant to the terms hereof, and an itemized estimate of the cost thereof in the amount of \$ 158,291.00. All work performed by the COMPANY pursuant hereto, shall be performed according to these plans and specifications as approved by the DEPARTMENT and the Federal Highway Administration if federal aid participating; and all subsequent plan changes shall likewise be approved by the DEPARTMENT and the Federal Highway Administration, when applicable.

8. All labor, services, materials, and equipment furnished by the COMPANY in carrying out the work to be performed hereunder shall be billed by the COMPANY direct to the DEPARTMENT. Separate records as to the costs of contract bid items and force account items performed for the COMPANY shall also be furnished by the COMPANY to the DEPARTMENT.

9. The COMPANY has determined that the method to be used in developing the relocation or installation cost shall be as specified for the method checked and described hereafter:

- (a) Actual and related indirect costs accumulated in accordance with a work order accounting procedure prescribed by the applicable Federal or State regulatory body.
- (b) Actual and related indirect costs accumulated in accordance with an established accounting procedure developed by the COMPANY and approved by the DEPARTMENT.
- (c) An agreed lump sum \$ 0.00 , as supported by a detail analysis of estimated cost attached hereto. (NOTE: This method is not applicable where the estimated cost of the proposed adjustment exceeds \$100,000.)

10. The installation and/or adjustment of the COMPANY'S facility as planned will will not involve additional work over and above the minimum reimbursable requirements of the DEPARTMENT. (If upgrading and/or nonreimbursable work is involved at the option of the COMPANY, then credit against the cost of the project is required and will be governed by the method checked and described hereafter):

- (a) _____ % will be applied to the final billing of work actually accomplished to determine required credit for (betterment) and/or (expired service life) and/or (nonreimbursable segments).
- (b) All work involving nonreimbursable segments will be performed by special COMPANY work or job order number apart and separate from the reimbursable portion of the work; such work or job order number to be _____. The COMPANY further agrees to clearly identify such additional work areas in the COMPANY'S plans and estimates for the total work covered by this Agreement.
- (c) \$ 0.00 credited for betterment expired service life
 nonreimbursable segments in accord with Article 9.(c) hereinabove.

11. It is specifically agreed by and between the DEPARTMENT and the COMPANY that the DEPARTMENT shall receive fair and adequate credit for any salvage which shall accrue to the COMPANY as a result of the above installation and/or adjustment work.

12. It is further agreed that the cost of all improvements made during this adjustment work shall be borne by the COMPANY, subject only to the DEPARTMENT bearing such portion of this cost as represents the cost of adjustment of previously existing facility, less salvage credit as set forth in the immediately preceding paragraph.

13. Upon completion of the work the COMPANY 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 the 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 permit 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 is possible. Salvage credits from recovered and replaced permanent and recovered temporary materials shall be reported in said bills in relative position with the charge for the replacement or the original charge for temporary use.

The final billing shall show the description and site of the Project; the date on which the first work was performed, or, if preliminary engineering or right-of-way items are involved, the date on which the earliest item of billed expense was incurred; the date on which the last work was performed or the last item of billed expense was incurred; and the location where the records and accounts billed can be audited. Adequate reference shall be made in the billing to the COMPANY'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 the COMPANY in the amount of such actual costs as approved by the DEPARTMENT'S auditor.

14. Payment shall be made only after receipt and approval of goods and services unless advance payments are authorized by the DEPARTMENT'S Comptroller under Section 334.044(29), F.S., or by the Department of Financial Services under Section 215.422(14), Florida Statutes (F.S.).

15. 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 preaudit and postaudit thereof.

16. Bills for travel expenses specifically authorized in this agreement shall be submitted and paid in accordance with DEPARTMENT Rule 14-57.011 "Public Railroad-Highway Grade Crossing Costs" and the Federal Administration Federal-Aid Policy Guide, Subchapter B, Part 140, Subpart I "Reimbursement for Railroad Work."

17. In accordance with Section 215.422, Florida Statutes, the following 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 Financial Services. The 20 days are measured from the latter of the date the invoice is received or 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 Financial Services. 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) 413-5516 or by calling the Department of Financial Services Hotline, 1-877-693-5236.

18. 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 five 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.

19. 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 339.135(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 into 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.

20. 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.

21. In accordance with Section 287.0582, Florida Statutes, the following provision is included in this Agreement:

The Department's obligation to pay under this contract is contingent upon an annual appropriation by the Florida Legislature.

22. The COMPANY covenants and agrees that it will indemnify and hold harmless the DEPARTMENT and all of the DEPARTMENT'S officers, agents, and employees from any claim, loss, damage, cost charge, or expense arising out of any act, action, neglect, omission or delay by the COMPANY 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 the COMPANY nor any of its sub-contractors will be liable under this section for damages arising out of injury or damage to persons or property directly caused or resulting from the sole negligence of the DEPARTMENT or any of its officers, agents, or employees.

IN WITNESS WHEREOF, the parties hereto have caused these presents to be executed by their duly authorized officers, the day and year first above written.

STATE OF FLORIDA
DEPARTMENT OF TRANSPORTATION

BY: _____
(TITLE: Director of Transportation Development)

COMPANY: South Central Florida Express, Inc.

BY: Sara C. Cochran, VP

Palm Beach COUNTY, FLORIDA

BY: _____
(TITLE: JOHN F. KOONS, CHAIRMAN)

Legal Review	Approved as to Funds Available	Approved as to FAPG Requirements
BY: _____	BY: _____	BY: <u>N/A</u>
Attorney - DOT Date	Comptroller - DOT Date	FHWA Date

PALM BEACH COUNTY, FLORIDA

APPROVED AS TO TERMS AND CONDITIONS

SHARON R. BOCK
CLERK & COMPTROLLER

BY: Charles Rich
ENGINEER

BY: _____
CLERK

STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION
WORK DESCRIPTION
GRADE CROSSING TRAFFIC CONTROL DEVICES

725-090-09
RAIL
05/02

FINANCIAL PROJECT NO.	ROAD NAME OR NUMBER	COUNTY NAME	PARCEL & R/W NUMBER	FAP NUMBER
42575015701	Larrimore Road	PALM BEACH		00S4-047-J

RAILROAD COMPANY

South Central Florida Express, Inc.

- A. JOB DESCRIPTION & LOCATION: Gates / CWT
- B. TYPE OF ROADWAY FACILITY: _____
- C. FDOT/AAR XING NO.: 272284-G RR MILE POST TIE: K 51.71
- D. TYPE CROSSING PROPOSED: IV CLASS: III DOT INDEX NO.: 17882
- E. STATUS AND PROPOSAL:
1. EXISTING DEVICES: (See Agreement dated _____)
 - a. _____ None-New Crossing.
 - b. _____ Crossbuck and Disk.
 - c. _____ Flashing Signals with Disk.
 - d. Flashing Signals with Cantilever.
 - e. _____ Flashing Signals with Gates.
 - f. _____ Flashing Signals with Cantilever and Gates.
 2. PROPOSED DEVICES: (Safety Index Rating _____)
 - a. _____ No revision required.
 - b. _____ Crossbuck and Disk.
 - c. _____ Flashing Signals and Disk.
 - d. _____ Flashing Signals with Cantilever.
 - e. _____ Flashing Signals with Gates.
 - f. Flashing Signals with Cantilever and Gates.
 - g. _____ Relocate existing signal devices:
 - (1) _____ (With-Without) addition of Gates.
 - (2) _____ (With-Without) synchronization with highway traffic signals.
 - (3) _____ (With-Without) constant warning time.
- F. COMMUNICATION AND/OR POWER LINE ADJUSTMENTS
1. N/A By Others (_____ Company.)
 2. N/A By Railroad Company.
- G. AUTHORITY REQUESTED: (Draft attached: Yes No.)
1. Agreement (Third Party Participating Pam Beach)
 2. _____ Supplemental Agreement No. _____
 3. _____ Crossing Permit.
 4. _____ Estimate for Change Order No. _____
 5. _____ Letter of Authority.
 6. _____ Letter of Confirmation (No Cost to Department).
- H. OTHER REMARKS:

Negotiations to be completed by: _____
Signal installation target date: _____
Synchronization: (Draft attached Yes No.)

STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION
RAILROAD GRADE CROSSING TRAFFIC CONTROL DEVICES

725-090-41
 RAIL
 OGC - 01/06

FINANCIAL PROJECT NO.	ROAD NAME OR NUMBER	COUNTY NAME	PARCEL & RW NUMBER	FAP NUMBER
42575015701	Larrimore Road	PALM BEACH		00S4-047-J

COMPANY NAME: South Central Florida Express, Inc.

A. FDOT/AAR XING NO.: 272284G RR MILE POST TIE: K 51.71

B. TYPE SIGNALS PROPOSED IV CLASS III DOT INDEX: 17882

**SCHEDULE OF ANNUAL COST OF AUTOMATIC
 HIGHWAY GRADE CROSSING TRAFFIC CONTROL DEVICES**

Annual Maintenance Cost Exclusive of Installation

<u>CLASS</u>	<u>DESCRIPTION</u>	<u>COST*</u>
I	Flashing Signals - One Track	\$2,086.00
II	Flashing Signals - Multiple Tracks	\$2,760.00
III	Flashing Signals and Gates - One Track	\$3,146.00
IV	Flashing Signals and Gates - Multiple Tracks	\$3,950.00

AUTHORITY: FLORIDA ADMINISTRATIVE RULE 14-57.011
 Public Railroad-Highway Grade Crossing Costs

EFFECTIVE DATE: July 22, 1982

GENERAL AUTHORITY: 334.044, F.S.

SPECIFIC LAW IMPLEMENTED: 335.141, F.S.

*This schedule will become effective July 1, 2006 and will be reviewed every 5 years and revised as appropriate based on the Consumer Price Index for all Urban Consumers published by the U.S. Department of Labor.

STATE OF FLORIDA
DEPARTMENT OF TRANSPORTATION

OFFICE OF MODAL DEVELOPMENT
DISTRICT 4 RAIL OFFICE

PROJECT SCOPE AND COST ESTIMATE

PROJECT INFORMATION

Financial Project No.: 425750-1-57-01
FAP No.: 00S4-047-J
Location: Larrimore Road
County: Palm Beach
Crossing No.: 272284-G
RR MP: K51.71
Company: South Central Florida Express , Inc.

This project scope and cost estimate was prepared by:
District Rail Coordinator

PROJECT SCOPE AND COST ESTIMATE

Gates& CWT \$158,291.00

TOTAL PROJECT COST..... \$158,291.00

Florida Department of Transportation

Project No. _____

Diagnostic Field Review Sheet

F.M. No. _____

Rail-Highway Grade Crossing

Data Sheet

Crossing No : 272284G Priority No :1073 County : PALM BEACH City : PAHOKEE RDWY : LARRIMORE RD

Classification/Location: Last Updated: 5/9/2008 1:47:35 PM

R.R. Co. : SOUTH CENTRAL FLORIDA EXPRESS R.R. Branch. : FP-LH BRANCH
Station. : 499164 R.R. Milepost. : 51.71
Latitude : 26.82708330 Longitude : 80.64591670
R.R Crossing Status : OPEN-TRACK ACTIVE As of : 9/18/2002

Rail Operations : Last Updated : 1/18/2000

Train Movements : 30
Max Speed : 35 Effective date : 1/18/2000
No. of main tracks : 1 Other tracks : 0

Warning devices : Last Updated :

Existing warning : CFLandG - NO GATES Type of train detection : OTHER PMD
Preemption : NOT INTERCONNECTED Advance warning : YES

Physical data : Last updated : 7/21/2006

R.R Crossing angle : 60-90 DEG Highway speed : 35
No. of Thru lanes : 2 Other lanes : 1
Crossing condition : POOR Approach condition : MINOR
Maintaining agency : ~~PAH~~ COUNTY

Department data : Last updated : 9/18/2002

Traffic vol.(AADT) : 5000 As of : 2001
School bus count : 14 As of : 2008
Percent trucks : 0

Safety data : Last updated 5/13/2008

Pred. accident/year : 0.0088 Recommended warning device : CFL & G
Safety index : 67.99 As of :5/13/2008

Description of Site/Installation conflicts :

Cable & case is 30 years old, no gate nor bells school & childer
52' from rail to stop bar, 82' from rail to travellway
Rough King

Review team recommendations :

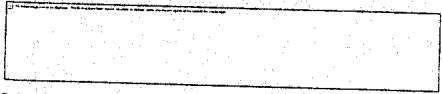
Red gate study to start
Gates & Red Gate box CWT
Gate lower moved Do NOT STOP ON TRACKS
(1 document) W10-11a storage sign (52')
6' away

Date reviewed : 8-29-08

Ask county to improve

by :

Review team personnel :



(800) 867-2118

9/11/2008

CONFIDENTIAL

Page 1 of 3

ENGINEER'S ESTIMATE & MATERIAL LIST

RAILROAD: SOUTH CENTRAL FLORIDA EXPRESS

LOCATION: LARRIMORE ROAD
DOT # 272 284G, M.P.0051.71
PAHOKEE, PALM BEACH COUNTY, FL

PROJECT: INSTALLATION OF RAILROAD CROSSING WARNING SYSTEM
6' X 6' HOUSE, HXP-3R PREDICTOR SYSTEM, LED FLASHERS &
GATES. NO SIDE WALK GATES.

CONTROL MATERIAL		
DESCRIPTION	SUPPLIER	QUANTITY
6' X 6' Aluminum House w/2 doors, rubber matting, overhead wire chases, light switch, incandescent light, terminal boards, 1" insulation, conduit entrance bushings, three 4" x 24" PVC cable entrance pipes & four ground stubs, and 4 ea. gal. house piers. Generator Hookup Connection.	Sermi	1 ea.
HXP 3R With IDK & RMM (25081 1-2B01)	GETS	1 ea.
Recorder Interface Module	GETS	1 ea.
MDSA-1	GETS	1 ea.
Flasher Relay w/X PAK (A62-673) B48	GRS	1 ea.
Power Transfer Relay (A62-406) B62	GRS	1 ea.
Rectifier for POR (A53-541)	GRS	1 ea.
Relay, MDR (A62-262)	GRS	1 ea.
Relay, GPXR (A62-310)	GRS	1 ea.
Relay, XGPR (A62-360)	GRS	1 ea.
Relay Plug Board (A62-650)	GRS	1 ea.
Voltage Test Post	GRS	6 ea.
Relay Rack	GRS	4 ea.
Battery Charger (NRS 12/20)	Fab. Metals	2 ea.
Battery Charger (NRS 12/40)	NRS	1 ea.
Battery, 240 AH (OL-B12)	NRS	1 ea.
Battery, 240 AH (MAIN B12)	ELM	12V Batt.
Battery Stand	ELM	14V Batt.
Lighting Transformer MLT 50	GETS	2 ea.
Power Off Light Assy. (Internal)	GETS	1 ea.
Indicator Light	GETS	2 ea.
Fan Assy. W/ Thermostat	GETS	1 ea.
Breaker 30A.	GETS	1 ea.
Breaker 20A.	Safetran	1 ea.
Breaker 10A.	Safetran	3 ea.
Equalizers, Heavy Duty	Safetran	3 ea.
Arresters, Heavy Duty	Safetran	2 ea.
Case Wire #10 Flex	Safetran	5 ea.
Case Wire #14 Flex	Okonite	1 lt.
Test Switch	Okonite	1 lt.
Emergency Disarm Switch (Motion Detector)	Safetran	1 ea.
Ground Plate	Square D	1 ea.
Signal Locks	GETS	1 ea.
	Safetran	3 ea.

ENGINEER'S ESTIMATE & MATERIAL LIST (Cont.)

LARRIMORE ROAD

SIGNAL MATERIAL

DESCRIPTION	SUPPLIER	QUANTITY
Pour-in-place Cantilever Foundation	GETS	2 ea.
4000 PSI Concrete	Local	14 cy.
Junction Box Base (5" Gate Mast)	Progress Rail	2 ea.
Aluminum Mast 5" x 16' w/o pinnacle	Progress Rail	2 ea.
Generator Cage	Fab. Metals	1 ea.
Flasher/Gate Transition Plate for Cant. Foundation (19" X 19" to 12" X 12" for 1" Bolts)	Progress Rail	2 ea.

REUSE EXISTING CANTILEVERS AND LED FLASHING LIGHTS

Gate Mech Assy., Model S-40 w/counterweight kit, cast adapter, & conversion brkt.	Safetran	2 ea.
Gate Arm Assy. w/fiberglass gate arm, 3 ea. LED gate lights, and gate light wiring assy. (1-37' Arm & 1-33' Arm)	WCH	2 ea.
12" 1-Way LED Flashlight Assy. (5" Gate Mast Mtd.)	Progress Rail	2 ea.
12" 2-Way LED Flashlight Assy. (4" Extension Arm Mtd.)	Progress Rail	1 ea.
Extension Arm (Cantilever Mast Mtd)	Progress Rail	1 ea.
Gate High Wind Bracket	WCH	2 ea.
Bell	WCH	2 ea.
Sign, RR Crossing, Hi-Intensity	GETS	2 ea.
Signal Locks	Safetran	4 ea.
Misc. Material	NA	1 lt.

FIELD MATERIAL

DESCRIPTION	SUPPLIER	QUANTITY
5 Cond. #6 Cable (Signal)	Okonite	350 ft.
7 Cond. #14 Cable (Signal)	Okonite	350 ft.
3 Cond. #6 UG Cable (Power)	Okonite	50 ft.
2 Cond. #6 Twist Pair UG Cable (Track)	Okonite	300 ft.
Cadweld Bonds (As Needed)	Erico	
Plug Bonds (As Needed)	Erico	
Hard Wire Shunt	GETS	2 ea.
Ground Rods	DJR	2 ea.
Track Kit, #6 Trk. Wire	DJR	2 ea.
4" Sched. 80 Conduit (under Tracks)	Carlton	10 ft.
4" Galvanized Conduit (under Road)	Galvanized	80 ft.
Dress Stone, Seed & Mulch	N/A	1 lt.
Power Service 110V 60AMP Min. per RR Standards	Local	1 ea.
AAR/DOT Stencil for House & AAR/DOT Tags for Masts	Shannon & Baum	2 ea.
Pavement Marking & Advance Warning Signs (W10-1)	BY OTHERS	
Misc. Field Material		1 lt.

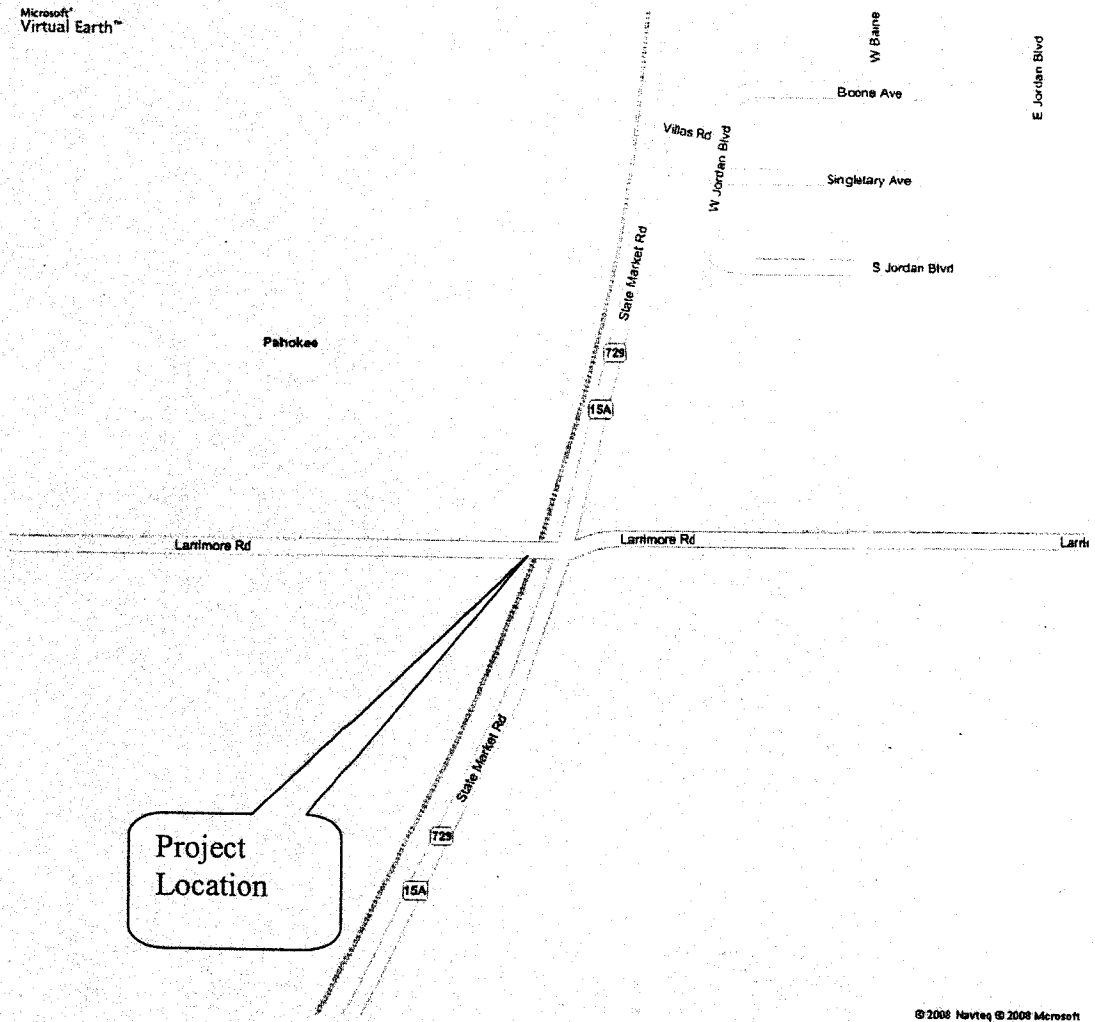
ESTIMATE SUMMARY

SITE SURVEY, ENGINEERING & PLANS		\$	4,500.00
MATERIAL (FOB JOB SITE)			
Control Material	\$	54,920.00	
Signal Material	\$	43,850.00	
Field Material	\$	<u>17,636.00</u>	
TOTAL MATERIAL		\$	116,406.00
FACTORY WIRING OF EQUIPMENT HOUSE		\$	4,000.00
CANTILEVER REMOVAL AND TRANSPORT TO STORAGE		\$	21,350.00
INSTALLATION - EQUIPMENT		\$	2,235.00
TEST & PLACE "IN SERVICE"		\$	1,250.00
TRAVEL, LIVING, & MISCELLANEOUS EXPENSE		\$	<u>3,550.00</u>

PROJECT SUBTOTAL COST = \$ 153,291.00
RAILROAD LABOR AND MISC. EXPENSE = \$ 5,000.00
***TOTAL PROJECT COST* = \$ 158,291.00**

- * PRICE VALID FOR 30 DAYS FROM DATE OF QUOTE
- * PLUS SALES TAX, IF APPLICABLE, AND POWER COMPANY
LINE DROP CHARGE, IF ANY

Microsoft
Virtual Earth™



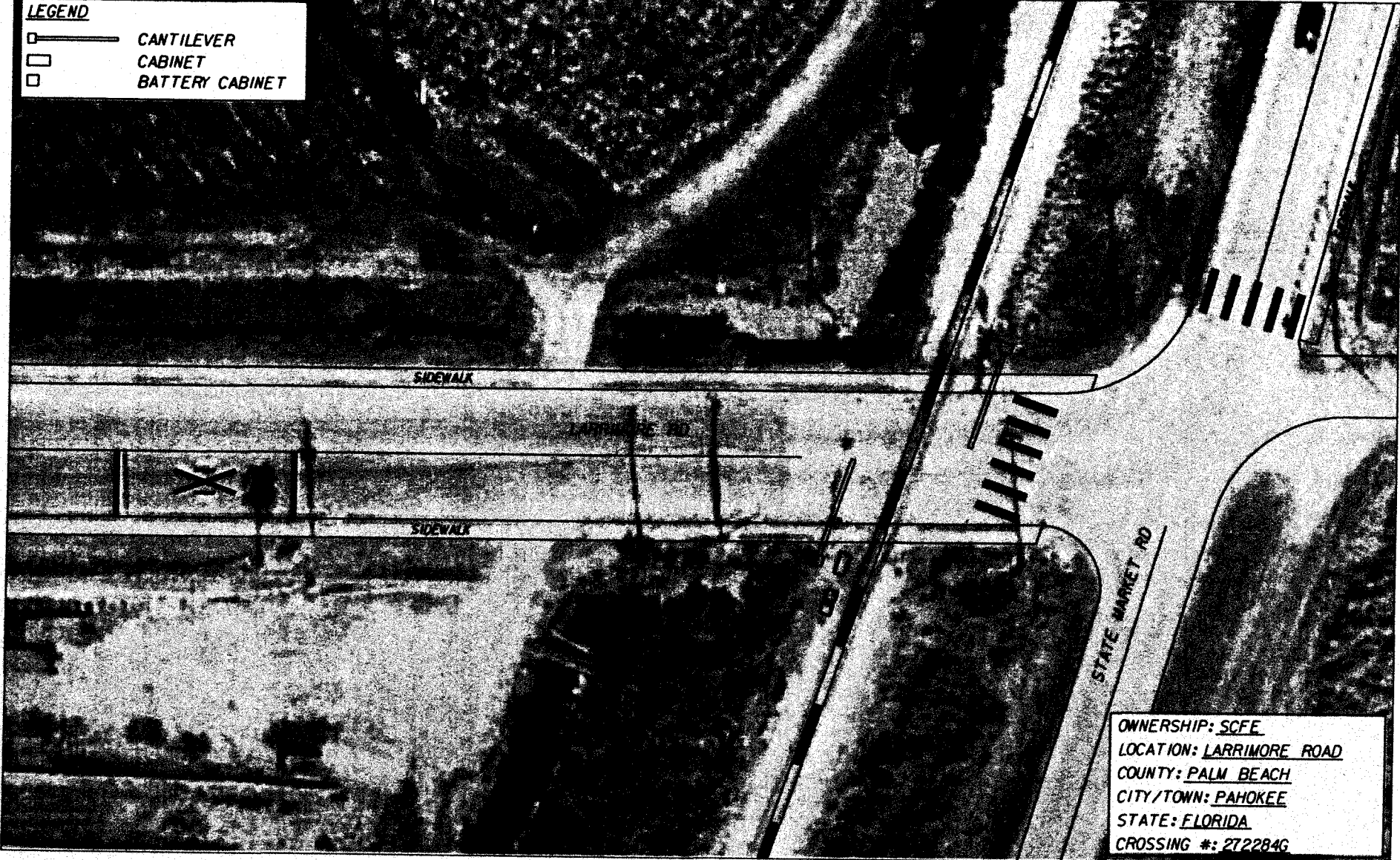
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LOCATION MAP

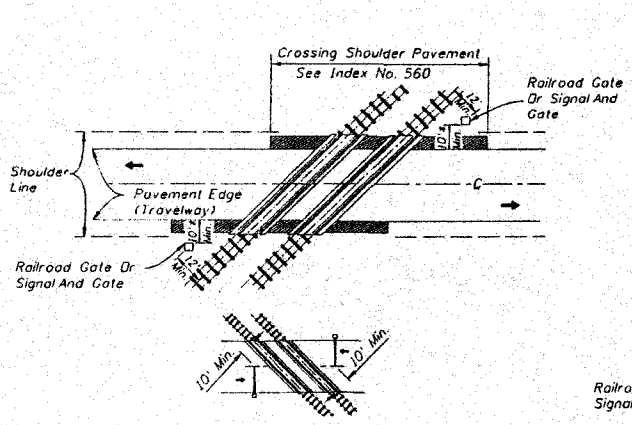
South Central Florida Express

LOCATION:	Larrimore Road
FINANCIAL PROJECT NO.:	425750-1-57-01
CROSSING NO.:	272284-G
RAILROAD MILEPOST:	K51.71

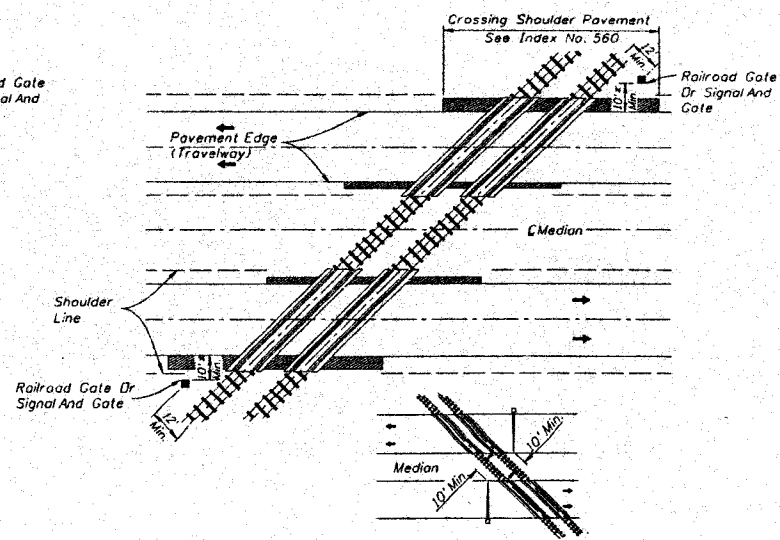
LEGEND
□ CANTILEVER
□ CABINET
□ BATTERY CABINET



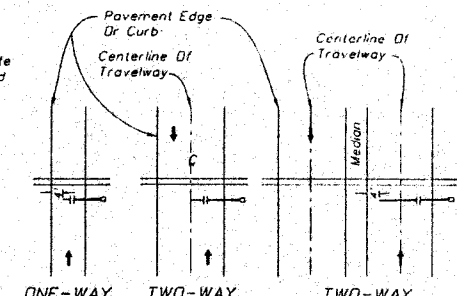
OWNERSHIP: SCEE
LOCATION: LARRIMORE ROAD
COUNTY: PALM BEACH
CITY/TOWN: PAHOKEE
STATE: FLORIDA
CROSSING #: 272284G



SIGNAL PLACEMENT AT RAILROAD CROSSING
(2 - LANE DESIGN)



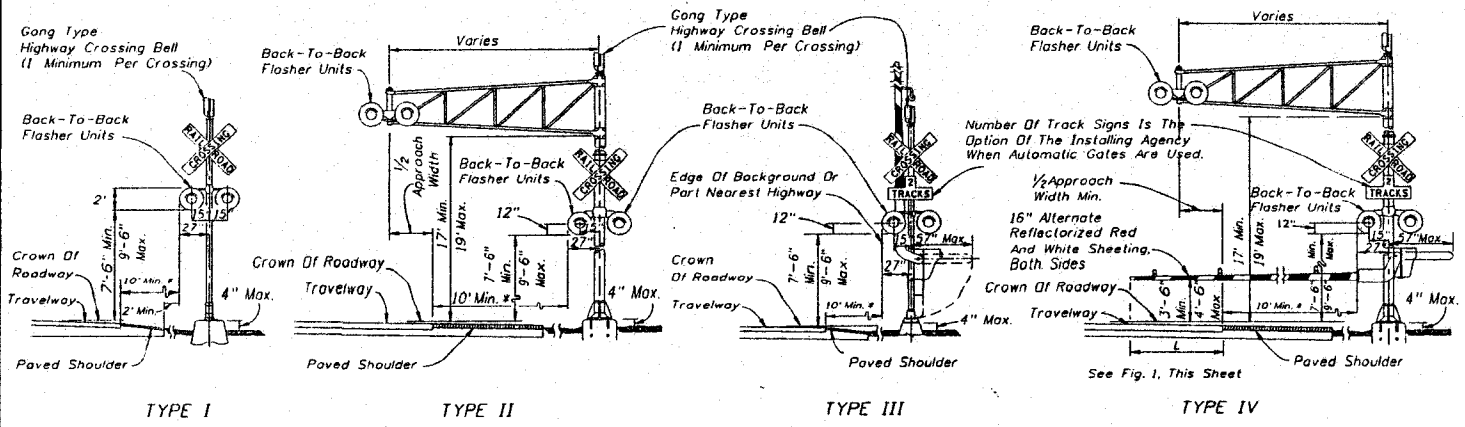
SIGNAL PLACEMENT AT RAILROAD CROSSING
(4 - LANE DESIGN)



ONE-WAY TWO-WAY TWO-WAY
(Mountable Curb Or Shoulder) Unaided 2 Or 4 Lanes Divided Median (Mountable Curb)

Note:
Arrows denote direction of travel in lane indication

FIGURE 1
Gate Length Requirements
See Note 5 Sheet 3

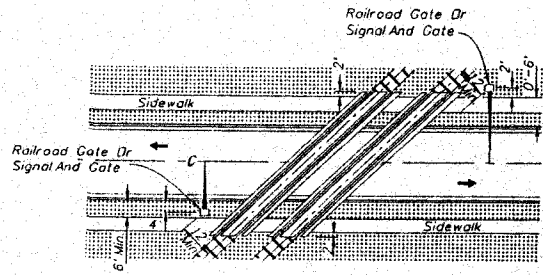


- General Notes
- No guardrails proposed for signals; however, some form of impact attenuation device may be specified for certain locations.
 - Advance flasher to be installed when and it called for in plans or specifications.
 - Top of foundation shall be no higher than 4" above finished shoulder grade.
 - Type of traffic control device
 - Flashing signals
 - Flashing signals with cantilever
 - Flashing signals with gate
 - Flashing signals with cantilever & gate
 - Gate
 - Class of traffic control devices
 - Flashing signals - one track
 - Flashing signals - multiple tracks
 - Flashing signals and gates - one track
 - Flashing signals and gates - multiple tracks

* When 10' is deemed impracticable the control device can be located as close as 2' from the edge of a paved shoulder but not less than 6' from the edge of the near traffic lane.

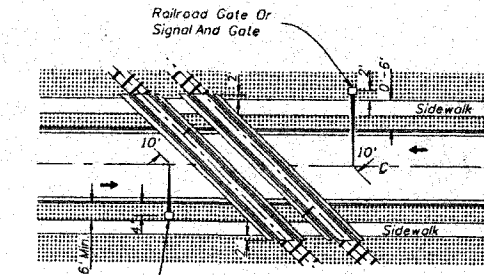
Note:
Two separate foundations may be required (one for signals, one for gate), depending on type of equipment used.





ACUTE ANGLE (AND RIGHT ANGLE)

SIGNAL PLACEMENT AT RAILROAD CROSSING
(2 LANES, CURB & GUTTER)

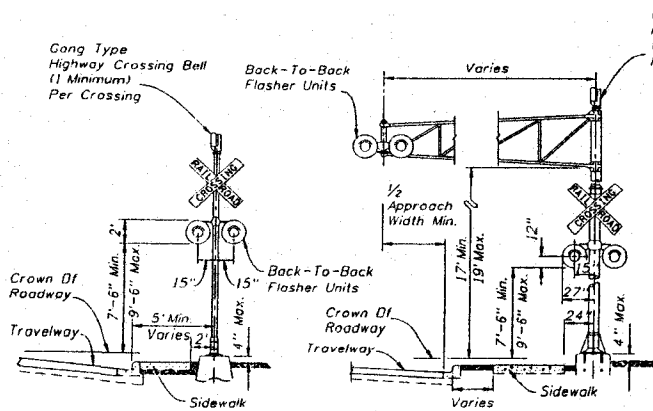


OBTUSE ANGLE

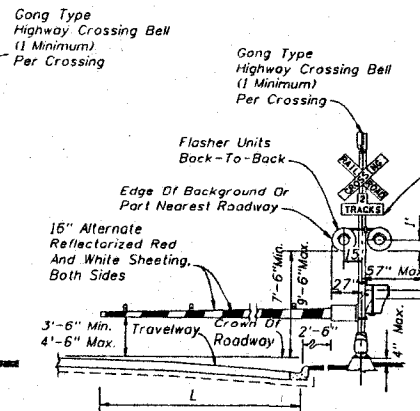
SIGNAL PLACEMENT AT RAILROAD CROSSING
(2 LANES, CURB & GUTTER)

GENERAL NOTES

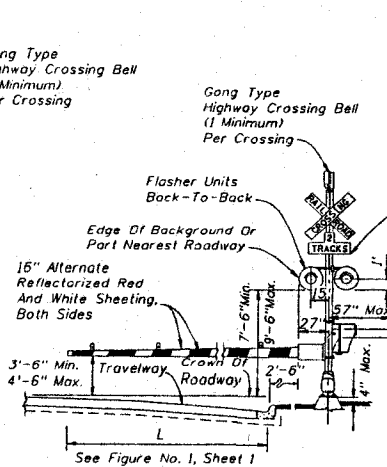
1. The location of flashing signals and stop lines shall be established based on future (or present) installation of gate with appropriate track clearances.
2. Where plans call for railroad traffic control devices to be installed in curbed medians, the minimum median width shall be 12'-6".
3. Location of railroad traffic control device is based on the distance available between face of curb & sidewalk. 0' to 6' - Locate device outside sidewalk. Over 6' - Locate device between face of curb and sidewalk.
4. Stop line to be perpendicular to edge of roadway, approx. 15' from nearest rail or 8' from and parallel to gate when present.



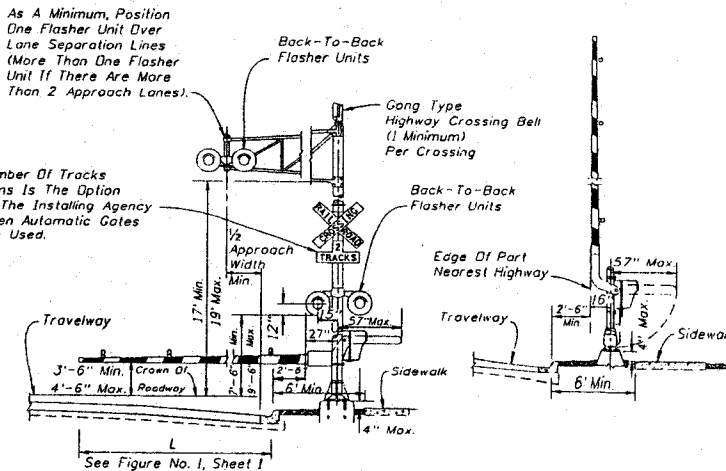
TYPE I



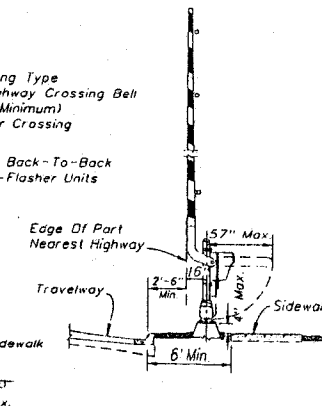
TYPE II



TYPE III



TYPE IV



TYPE V



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RAILROAD GRADE CROSSING
TRAFFIC CONTROL DEVICES

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RAILROAD CROSSING AT
TWO (2)-LANE ROADWAY

RAILROAD CROSSING AT
MULTILANE ROADWAY

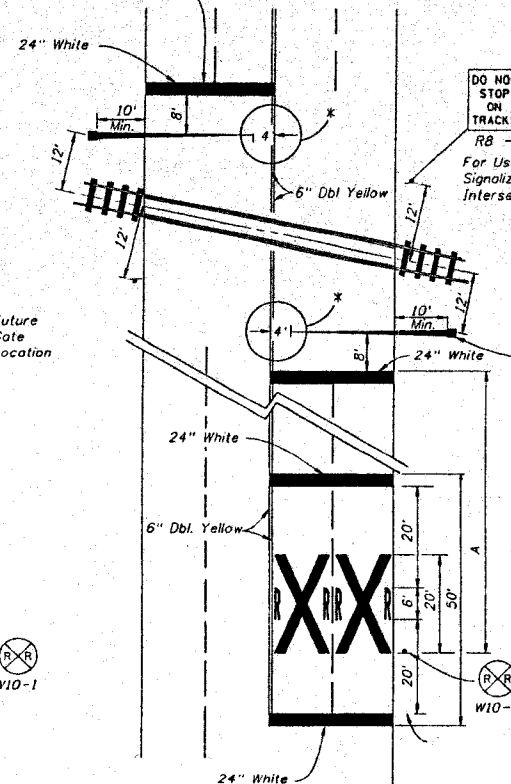
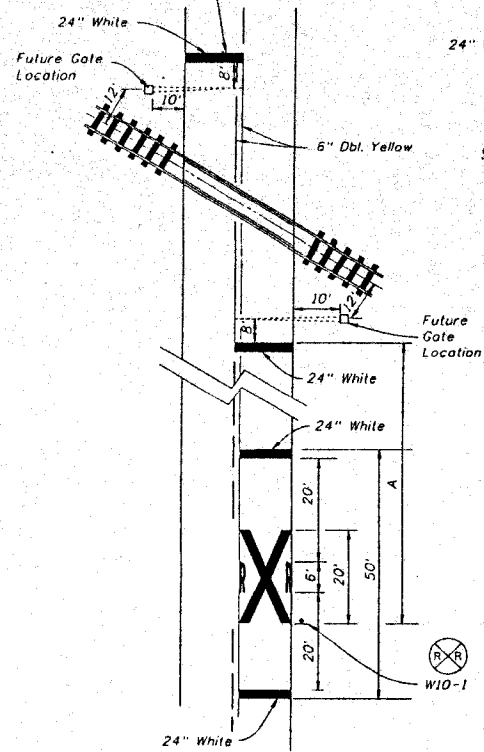
RELATIVE LOCATION OF CROSSING TRAFFIC
CONTROL DEVICES

Stop Bar Perpendicular
To Edge Of Travel Way
Or 8' From & Parallel
To Gate When Present.

Stop Bar Perpendicular
to Edge Of Travel Way
Or 8' From & Parallel
To Gate When Present.

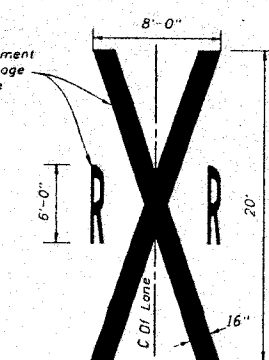
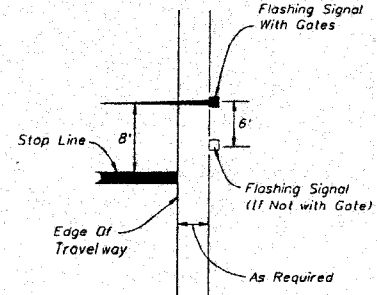
Gate Or
Flashing Signal
With Gates

Pavement
Message
White



DO NOT
STOP
ON
TRACKS
RB - 8
For Use Near
Signalized
Intersections

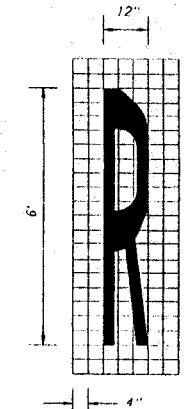
Railroad Protection
Device Is Not To Be
Located Within 12'
Of The RR Center
Line.



NOTES:

- When computing pavement message, quantities do not include traverse lines.
- Placement of sign W10-1 in a residential or business district, where low speeds are prevalent, the W10-1 sign may be placed a minimum distance of 100' from the crossing. Where street intersections occur between the RR pavement message and the tracks an additional W10-1 sign and additional pavement message should be used.
- A portion of the pavement markings symbol should be directly opposite the W10-1 sign.
- Recommended location for FTP-61-06 or FTP-62-06 signs, 100' urban and 300' rural. See Index 17355 for sign details.
- Gate Length Requirements:
For two-way undivided sections:
The gate should extend to within 1' of the center line. On multiple approaches the maximum gate length may not reach to within 1' of the center line. For those cases, the distance from the gate to the center line shall be a maximum of 4'.

For one-way or divided sections:
The gate shall be of sufficient length such that the distance from the gate lip to the inside edge of pavement is a maximum of 4'.



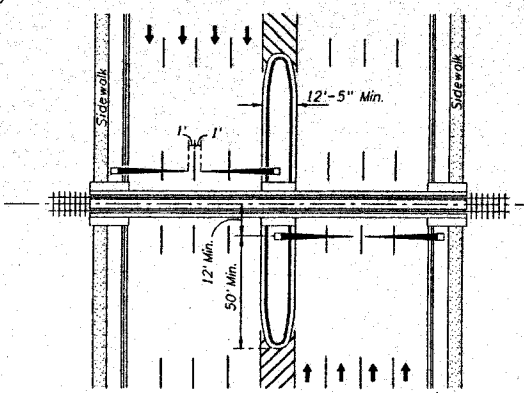
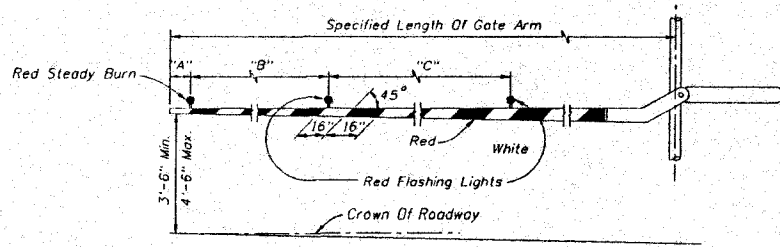
SPEED MPH	" A " IN FT.
60	400
55	325
50	250
45	175
40	125
35	100
URBAN	85 MIN.



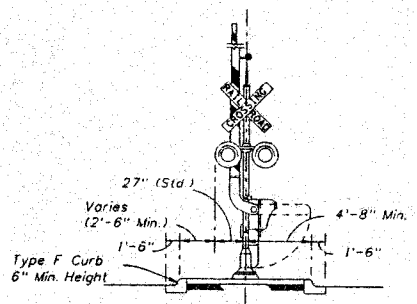
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PLAN



MEDIAN SECTION AT SIGNAL GATES

NOTE:
For additional information see the "Manual On Uniform Traffic Control Devices", Part B; The "Traffic Control Handbook", Part VIII; and AASHTO "A Policy On Geometric Design Of Streets And Highways".

RAILROAD GATE ARM LIGHT SPACING

Specified Length Of Gate Arm	Dimension "A"	Dimension "B"	Dimension "C"
14 Ft.	6"	36"	5'
15 Ft.	18"	36"	5'
16-17 Ft.	24"	36"	5'
18-19 Ft.	28"	41"	5'
20-23 Ft.	28"	4'	5'
24-28 Ft.	28"	5'	5'
29-31 Ft.	36"	6'	6'
32-34 Ft.	36"	7'	7'
35-37 Ft.	36"	9'	9'
38 And Over	36"	10'	10'

MEDIAN SIGNAL GATES FOR
MULTILANE UNDIVIDED URBAN SECTIONS

(THREE OR MORE DRIVING LANES IN ONE DIRECTION, 45 MPH OR LESS)



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