

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

FINANCIAL PROJECT NO.	ROAD NAME OR NUMBER	COUNTY NAME	PARCEL & R/W NUMBER	FAP NUMBER
43735515701	SEABOARD ROAD	ORANGE	1(75000-SIGG)	OOS5-052-J

THIS AGREEMENT, made and entered into this \_\_\_\_\_ day of \_\_\_\_\_, 2015, by and between the STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION, hereinafter called the DEPARTMENT, and FLORIDA CENTRAL RAILROAD COMPANY, INC., a corporation organized and existing under the laws of FLORIDA, with its principal place of business in the City of PLYMOUTH, County of ORANGE, State of FLORIDA, hereinafter called the COMPANY; and the City of ORLANDO, a municipal corporation, hereinafter called the CITY.

**WITNESSETH:**

WHEREAS, the DEPARTMENT is constructing, reconstructing or otherwise changing a portion of the Public Road System, designated by the Financial Project ID 437355-1-57-01, on SEABOARD ROAD, which crosses at grade the right of way and tracks of the COMPANY'S Milepost SILVER STAR 811.40, FDOT/AAR Crossing Number 914115-V, at or near ORLANDO, as shown on DEPARTMENT'S Plan Sheet No. 17881 & 17882, 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 III 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 CITY 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 CITY agrees to insure that at the crossing, the W10-1 advance warning signs and railroad crossing pavement marking will conform to the MUTCD 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 \$ 137,306.00. 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 \$ \_\_\_\_\_, 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) \$ \_\_\_\_\_ 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 Highway 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 Division of Consumer Services at 1-877-693-5236.

18. 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.

19. 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.

20. In accordance with Section 287.134(2)(a), Florida Statutes, the following provisions are included in this Agreement:

An entity or affiliate who has been placed on the discriminatory vendor list 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.

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 section is contingent upon an annual appropriation by the Florida Legislature.

22. The COMPANY covenants and agrees to that it will indemnify and hold harmless the DEPARTMENT and CITY and all of the DEPARTMENT'S and CITY'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 CITY or said parties may be subject, except that neither the COMPANY 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 the sole negligence of the DEPARTMENT, the CITY or any of their officers, agents or employees.

23. COMPANY shall:

1. utilize the U.S. Department of Homeland Security's E-Verify system to verify the employment eligibility of all new employees hired by the COMPANY during the term of the contract; and
2. expressly require any subcontractors performing work or providing services pursuant to the state contract to likewise utilize the U.S. Department of Homeland Security's E-Verify system to verify the employment eligibility of all new employees hired by the subcontractor during the contract term.

24. It is understood and agreed by the parties to this Agreement that if any part, term, or provision of this Agreement is held illegal by the courts or in conflict with any law of the State of Florida, the validity of the remaining portions or provisions shall not be affected, and the rights and obligations of the parties shall be construed and enforced as if the Agreement did not contain the particular part, term, or provision held to be invalid.

25. Any questions or matters arising under this Agreement as to validity, construction, enforcement, performance, or otherwise, shall be determined in accordance with the laws of the State of Florida. Venue for any action arising out of or in any way related to this Agreement shall lie exclusively in a state court of appropriate jurisdiction in Leon County, Florida.

26. The parties agree to bear their own attorney's fees and costs with respect to this Agreement.

27. The parties agree that this Agreement is binding on the parties, their heirs-at-law, and their assigns and successors in interest as evidenced by their signatures and lawful executions below.

28. A modification or waiver of any of the provisions of this Agreement shall be effective only if made in writing and executed with the same formality as this Agreement.

29. Paragraphs 4 and 22 were modified, prior to execution by all parties, at the request of the City of Orlando.

30. The City of Orlando agrees to allow Florida Central Railroad Company, Inc. the right of way required to install a 6' x 6' signal cabinet on the City's right of way for this signal safety project.

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

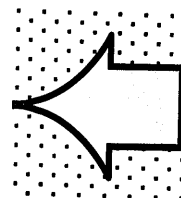
BY: \_\_\_\_\_  
(TITLE: Director of Transportation Operations )

COMPANY: FLORIDA CENTRAL RAILROAD COMPANY, INC.

BY: \_\_\_\_\_  
TITLE: \_\_\_\_\_

CITY OF ORLANDO , FLORIDA

BY: \_\_\_\_\_  
(TITLE: \_\_\_\_\_ )



Legal Review

Approved as to Funds  
Available

Approved as to FAPG  
Requirements

BY: \_\_\_\_\_  
Attorney - DOT                      Date

BY: ATTACHED ENCUMBRANCE  
Comptroller - DOT                      Date

BY: \_\_\_\_\_  
FHWA                                      Date



STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION  
**RAILROAD GRADE CROSSING TRAFFIC CONTROL DEVICES**  
**ANNUAL MAINTENANCE COSTS**

725-090-41  
RAIL  
OGC - 03/12

FINANCIAL PROJECT NO.	ROAD NAME OR NUMBER	COUNTY NAME	PARCEL & R/W NUMBER	FAP NUMBER
43735515701	SEABOARD ROAD	ORANGE	1(75000-SIGG)	OOS5-052-J

COMPANY NAME: FLORIDA CENTRAL RAILROAD COMPANY, INC.

A. FDOT/AAR XING NO.: 914115-V RR MILE POST TIE: Silver Star 811.40

B. TYPE SIGNALS PROPOSED III 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	\$2,256.00
II	Flashing Signals - Multiple Tracks	\$2,985.00
III	Flashing Signals and Gates - One Track	\$3,402.00
IV	Flashing Signals and Gates - Multiple Tracks	\$4,272.00
V	3 or 4 Quadrant Flashing Signals and Gates - One Track	\$6,726.00
VI	3 or 4 Quadrant Flashing Signals and Gates - Multiple Tracks	\$8,442.00

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, 2011 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.

Company Address 1600 Progress Dr.  
Alberville, AL 35950  
US



#### Quote Information

Quote Number	00009981	Prepared By	Garry Caudill
Created Date	8/13/2013	Title	Account Executive
Account	Florida Central Railroad Company	Phone	(502) 368-6562 x2310
		E-mail	gcaudill@progressrail.com

#### Quote Line Items

QTY	U/M	Line Description	Sales Price	Total Price
1.00	LOT	Price Estimate For A New Grade Crossing Signal System Located On Seaboard Road In Orlando, Florida (DOT #914115V).	\$137,306.00	\$137,306.00

Grand Total \$137,306.00

#### Shipping Information and Notes

Shipping Info. Price includes the delivery, unloading and handling of the materials until the installation is complete and accepted by the customer.

Notes Scope of Work:

Remove and replace the existing signal system with a new system. The proposed system to include a new instrument shelter using a single island ac/dc track circuit with a DTMF controller for train detection equipment and plug-in relays to control the signals. The new signals will be flasher and gates using 12" LED light units. Price includes a new ac meter service. Price includes all required ground materials to complete the system and all required FRA Rule 234 testing and documentation.

The above price is based on the following provisions:

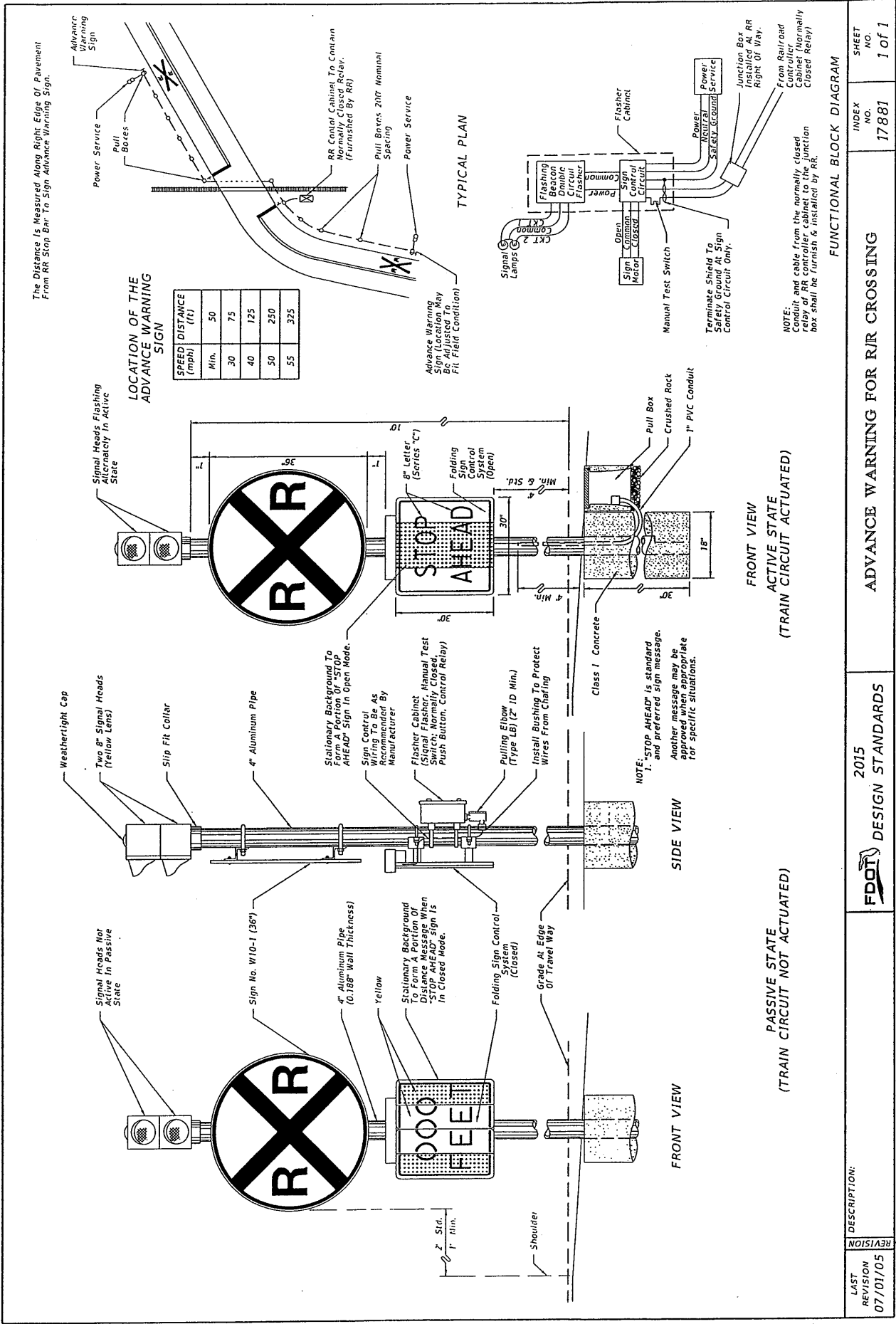
1. Price does not include tax of any kind.
2. Price does not include flagman for the crossing during train operations.
3. Commercial 110 volt ac power must be available within 75' of crossing.
4. Price does include estimated administration cost incurred by railroad.
5. Price does not include culvert or drainage work.
6. Price does not include retaining wall work or sidewalk repairs.
7. Price does include 4 insulated rail joints (materials and installation).
8. Price does include conduits for under the roadway and track.
9. Price based on one crew mobilization.
10. Price does include railroad protective liability insurance.
11. Price does not include a bid bond, payment bond or performance bond.
12. Price does not include pavement markings or the advance warning signs.

Installation is based on no hindering obstacles, such as rock, water, or utilities that may interfere with the installation and operation of proposed signal system.

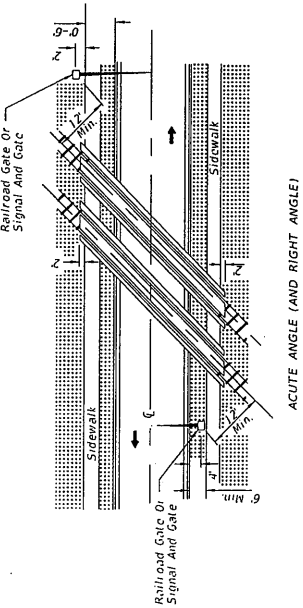
The above price is for budgeting purposes only and subject to change per final approved plans and detailed material lists.

Delivery is estimated at 90 to 120 days after project is authorized.

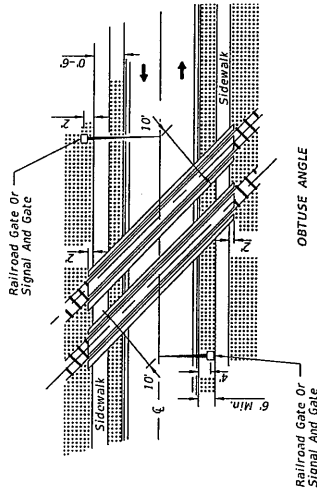
Crossing No: 914115V		Roadway: SEABOARD RD		RR Street		District: 5 County: Orange	
PUBLIC HWY		AT GRADE Commercial		City: Orlando		IN CITY OPEN-TRACK ACTIVE	
Rank 2013: 3233	SR No.:	RR Company:		FCEN		<b>Date:</b> 6/17/13 <b>Team Members:</b> Scott Allbritton Jim Ganey John Garcia Henry Parrish	
Rank 2012: 3029	CR No.:	Division Name:		TAMPA			
Rank 2011: 3397	US No.:	Subdivision Name:		ORLANDO			
	Latitude: 28.581800	Branch Name:		SILVER STAR			
	Longitude: -81.440000	RR Milepost:		811.40			
Field Review Comments: <i>Old</i> Team Recommendations: <i>2-Fl &amp; G's, island circuit w/remote</i> <input type="checkbox"/> A <input type="checkbox"/> S <input checked="" type="checkbox"/> <input checked="" type="checkbox"/> Preempt Cabinet Cable							
Highway Speed: 30 Crossing Angle: 60-90 DEG AADT: 6430 (2008) Percent Trucks: 0 (2009) School Buses: 0 (2013) Street Types: Thru Lanes: 2 Aux Lanes: 0 Hazmat Route? NO Emergency Services Route? YES				Train Speed Range: 5-10 Max Time Table Speed: 10 Day Thru/Switch: 0/2 Night Thru/Switch: 0/0 Train Service: Freight Passenger Count/Day: 0 Train Count Date: 10/17/2011 Main Tracks: 0 Other Tracks: (1) Spur/Lead			
Emergency Notification Signs: NO Crossbuck (4x4 post): 2 Crossbuck Sign: Stop Sign: 0 Yield Sign: Low Ground Clearance Signs: 0 Exempt Signs: Respass Signs:				Train Signals? NO Train Signal Proximity: Train Detection: AFO Event Recorder? Number of Bells: 1 Post Mounted Flashing Lights: 2 Roadway Gate Count: 2 Pedestrian Gate Count: Gates: 2 Quad Cantilevered Flashing Over Traffic: 0 Cantilevered Flashing Not Over Traffic: 0 Intersecting Roadway? NO Signalized? N/A Interconnection: Not Interconnected Traffic Signals Controlling? Preemption: Traffic Pre-Signals? 8" Count: 0 12" Count: 8 LED Count: 0 Install - Upgrade: -- 07/27/1992			
W10-1 <input checked="" type="checkbox"/> EB WB NB SB W10-2 <input type="checkbox"/> R10-6a W10-3 <input type="checkbox"/> R11-2 W10-4 <input type="checkbox"/> R15-2P W10-11 <input type="checkbox"/> R15-6 W10-12 <input type="checkbox"/> R15-6a R8-1a <input type="checkbox"/> R15-7 R8-2a <input type="checkbox"/> R15-7a R8-3 <input type="checkbox"/> R15-8 R8-9 <input type="checkbox"/> Pvt Crossing R8-10 <input type="checkbox"/> Look Out R8-10a <input type="checkbox"/> R8-8 w/Beacon R10-6 <input type="checkbox"/> WB-1 W10-6 <input type="checkbox"/> WB-3				W8-1 <input type="checkbox"/> W10-8 <input type="checkbox"/> W10-9 <input type="checkbox"/> W10-9P <input type="checkbox"/> W10-11a <input type="checkbox"/> W10-11b <input type="checkbox"/> W10-13P <input type="checkbox"/> W10-14P <input type="checkbox"/> W10-15P <input type="checkbox"/> W10-1w/Beacon <input type="checkbox"/> LED Signs			
Surface Installation Date: <input type="checkbox"/> Surface Type: RUBBER <input type="checkbox"/> Pmt Mtk: STOP LINES AND XING SYMBOLS <input checked="" type="checkbox"/> Redo Mtk: EB WB NB SB Trim Trees: EB WB NB SB Approach: LOS C = Minor erosion <input type="checkbox"/> Vehicle Reaction: LOS D = Bouncing <input type="checkbox"/> Driver Reaction: LOS D = Drivers Slow down + Weave <input type="checkbox"/> Rail/Pad Movement: erosion / Severe Movement <input type="checkbox"/>				Maintenance Responsibility: CITY <input type="checkbox"/> Roadway Paved: YES <input type="checkbox"/> Tracks run down street? NO <input type="checkbox"/> Sidewalks on Crossing Approach? YES <input type="checkbox"/> Sidewalks Thru Crossing? YES <input type="checkbox"/> Crossing Illuminated? YES <input type="checkbox"/> Commercial Power? YES <input type="checkbox"/> Alternative Power? NO <input type="checkbox"/>			
Incident History:				Recommended Warning Device: FL & G			







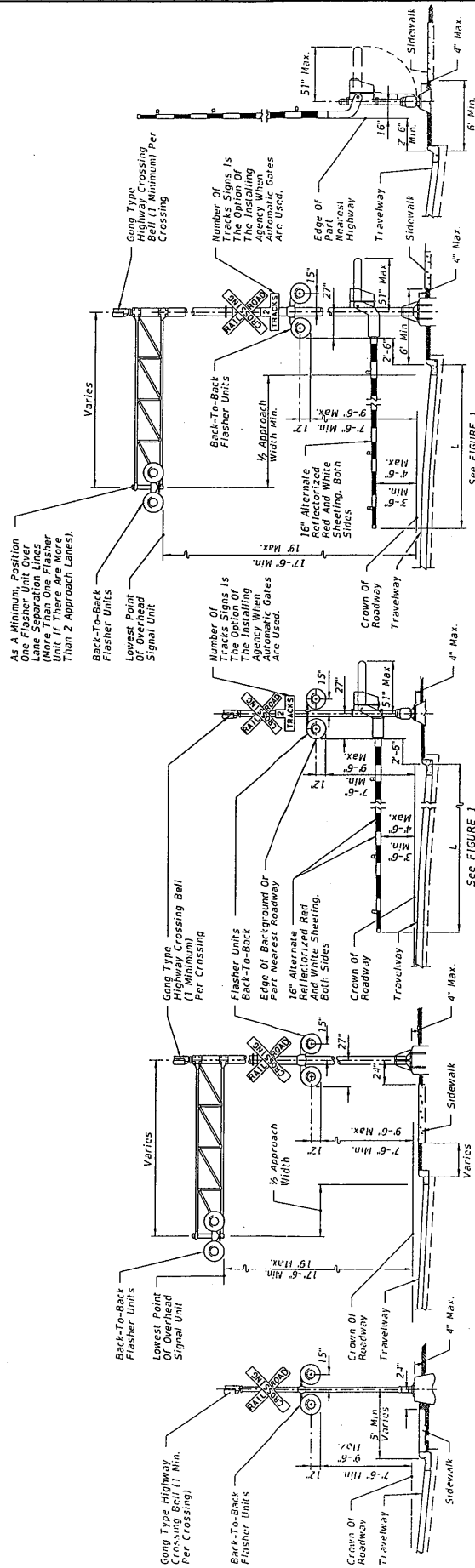
SIGNAL PLACEMENT AT RAILROAD CROSSING  
(2 LANES, CURB & GUTTER)



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 curved 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.
5. When a cantilevered-arm flashing-light signal is used, the minimum vertical clearance shall be 17'-6" (from above the Crown of Roadway to the Lowest Point of the Overhead Signal Unit).



TYPE I

TYPE II

TYPE III

TYPE IV

TYPE V

LAST  
REVISION  
07/01/14

DESCRIPTION:

FDOT DESIGN STANDARDS

2015

RAILROAD GRADE CROSSING  
TRAFFIC CONTROL DEVICES

INDEX  
NO.  
17882

SHEET  
NO.  
2 of 4

# 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 Roadway or 8' From & Parallel To Gate When Present.

24" White

Future Gate Location

6" Dbl. Yellow

10' Min.

12'

24" White

10' Min.

12'

24" White

10' Min.

12'

24" White

10' Min.

12'

24" White

10' Min.

12'

24" White

10' Min.

12'

24" White

10' Min.

12'

24" White

10' Min.

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24" White

10' Min.

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24" White

10' Min.

12'

24" White

10' Min.

12'

24" White

10' Min.

12'

24" White

10' Min.

12'

24" White

10' Min.

12'

24" White

10' Min.

12'

24" White

10' Min.

12'

DO NOT STOP ON TRACKS

For Use Near Signalized Intersections

RB - 8

See Note 5

6" Dbl. Yellow

10' Min.

12'

24" White

10' Min.

12'

24" White

10' Min.

12'

24" White

10' Min.

12'

24" White

10' Min.

12'

24" White

10' Min.

12'

24" White

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24" White

10' Min.

12'

24" White

10' Min.

12'

24" White

10' Min.

12'

24" White

10' Min.

12'

24" White

10' Min.

12'

Stop Line

6

Gate Or Flashing Signal With Gates

8

Edge Of Travel Way

6

Flashing Signal (If Not With Gate)

As Required

8'-0"

6'-0"

16"

20'

16"

16"

16"

16"

16"

16"

16"

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16"

16"

16"

16"

16"

16"

16"

16"

16"

Pavement Message White

8'-0"

6'-0"

16"

20'

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16"

Future Gate Location

24" White

6" Dbl. Yellow

10' Min.

12'

24" White

10' Min.

12'

24" White

10' Min.

12'

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10' Min.

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10' Min.

Future Gate Location

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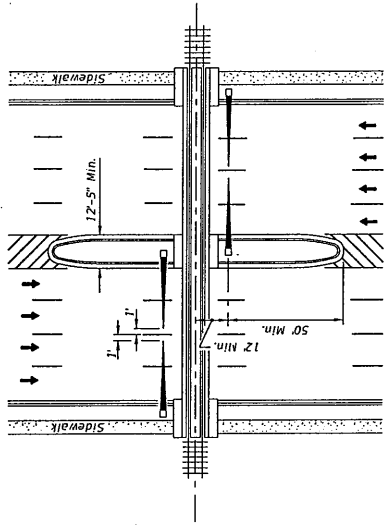
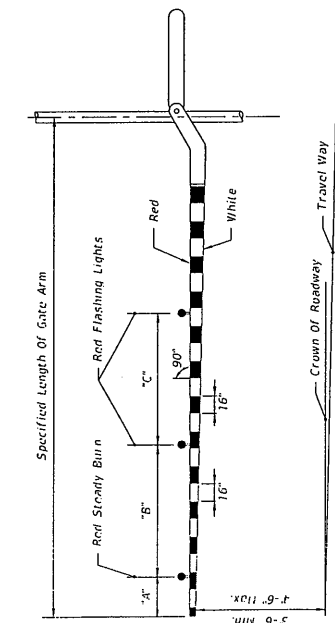
10' Min.

12'

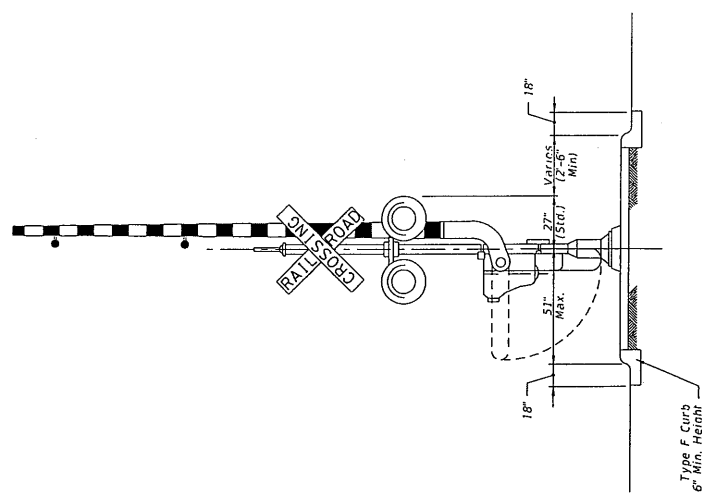
24" White

10' Min.

12'



PLAN



MEDIAN SECTION AT SIGNAL GATES

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"	41"	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'

NOTE:  
For additional information see the "Manual On Uniform Traffic Control Devices", Part 8; The "Traffic Control Handbook", Part VIII; and AASHTO "A Policy On Geometric Design Of Streets And Highways".

MEDIAN SIGNAL GATES FOR  
MULTILANE UNDIVIDED URBAN SECTIONS  
(THREE OR MORE DRIVING LANES IN ONE DIRECTION, 45 MPH OR LESS)



**CITY RESOLUTION**  
**GRADE CROSSING TRAFFIC CONTROL DEVICES AND FUTURE RESPONSIBILITY**

FINANCIAL PROJECT NO.	ROAD NAME OR NUMBER	COUNTY NAME	PARCEL & R/W NUMBER	FAP NUMBER
43735515701	SEABOARD ROAD	ORANGE	1(75000-SIGG)	OOS5-052-J

A RESOLUTION AUTHORIZING EXECUTION OF A RAILROAD REIMBURSEMENT AGREEMENT FOR THE INSTALLATION OF GRADE CROSSING TRAFFIC CONTROL DEVICES, AND FUTURE MAINTENANCE AND ADJUSTMENT OF SAID DEVICES; PROVIDING FOR THE EXPENDITURE OF FUNDS; AND PROVIDING WHEN THIS RESOLUTION SHALL TAKE EFFECT.

RESOLUTION NO. \_\_\_\_\_

ON MOTION OF Commissioner (Councilman) \_\_\_\_\_,  
 seconded by Commissioner (Councilman) \_\_\_\_\_, the following  
 RESOLUTION was adopted:

WHEREAS, the State of Florida Department of Transportation is constructing, reconstructing or otherwise changing a portion of the Public Road System, on SEABOARD ROAD,  
 which shall call for the installation and maintenance of railroad grade crossing traffic control devices for railroad grade crossing over or near said highway; and

NOW, THEREFORE, BE IT RESOLVED BY THE CITY COMMISSION OF THE CITY OF ORLANDO,  
 FLORIDA;

That the City of ORLANDO enter into a RAILROAD REIMBURSEMENT AGREEMENT with the State of Florida Department of Transportation and the FLORIDA CENTRAL RAILROAD COMPANY, INC. Company for the installation and maintenance of certain grade crossing traffic control devices designated as Financial Project Number 437355-1-57-01 on SEABOARD ROAD which crosses the right of way and tracks of the Company at FDOT/AAR Crossing No. 914115-V located near ORLANDO Florida; and

That the City assume it's share of the costs for future maintenance and adjustment of said grade crossing traffic control devices as designated in the RAILROAD REIMBURSEMENT AGREEMENT; and

That the Mayor/Mayor Pro Tem and City Clerk be authorized to execute such agreements with the State of Florida Department of Transportation and the Florida Central Railroad Company, Inc. as herein described; and

That this RESOLUTION shall take effect immediately upon adoption.

INTRODUCED AND PASSED by the City Commission of the City of ORLANDO,  
 Florida, in regular session this \_\_\_\_\_ day of \_\_\_\_\_, 2015.

\_\_\_\_\_  
 Mayor - Commissioner

ATTEST: \_\_\_\_\_ (SEAL)

City Auditor and Clerk

