# ORIGINATION FORM -

Proposed Revisions to a Standard Plans Index (Please provide all information — Incomplete forms will be returned)

### **Contact Information:**

Date: March 24, 2023 Originator: Joshua Turley Phone: (850) 414-4475 Email: joshua.turley@dot.state.fl.us **Summary of the changes:** 

## **Standard Plans:**

Index Number: 521-510 Sheet Number (s): 1 and 4 of 5 Index Title: CONCRETE BARRIER/NOISE WALL (8'-0")

Sheet 1: Deleted section cut lines A-A.

Sheet 4: Corrected reinforcing steel estimated quantities.

## Commentary / Background:

The estimate for reinforcing steel was slightly off for the CIP version. We updated the estimate.

# Other Affected Offices / Documents: (Provide name of person contacted)

- Yes No
- 🔲 🗹 Other Standard Plans –
- 🔲 🗹 FDOT Design Manual –
- 🔲 🗹 Basis of Estimates Manual –
- Standard Specifications 521-723
- Approved Product List –
- Construction –
- ] 🗹 Maintenance –

## Origination Package Includes: (Submit package to Rick Jenkins)

- Yes N/A
- Redline Mark-ups
- Revised or Proposed Standard Plan Instruction (SPI)
- Other Support Documents

### **Implementation:**

Design Bulletin (Interim	)

- DCE Memo
- Program Mgmt. Bulletin
- ✓ FY-Standard Plans (Next Release)

Contact the Roadway Design Office for assistance in completing this form \_\_\_\_\_\_\_\_\_
Email to: Rick Jenkins <u>rick.jenkins@dot.state.fl.us</u> and Darren Martin <u>darren.martin@dot.state.fl.us</u>



1'-101/2"

BILL OF REINFORCING STEEL			
MARK	SIZE	LENGTH	
R1	5	5'-2"	
R2	5	5'-2½"	
R3	5	4'-10''	
51	5	As Reqd.	
52	5	7'-3"	
V (Wall)	5	6'-6½"	
V (T-Footing)	5	7'-8½"	
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REINFORCING STEEL NOTES:

- 1. All bar dimensions in the bending diagrams are out to out.
- 2. All reinforcing steel at the open joints shall have a 2" minimum cover.
- 3. Bars 5R shall be one continuous or lap spliced bar. No mechanical couplers are permitted.
- shall be a minimum of 2'-2".
- 5. The Contractor may use Welded Wire Reinforcement (WWR) when approved by the Engineer. WWR must consist of deformed wire meeting the requirements of Specification Section 931.
- 6. See Index 521-514 and 521-515 for L-shaped and Trench footing vertical reinforcing.

ESTIMATED TRAFFIC RAILING/NOISE WALL QUANTITIES			
ITEM	UNIT	QUANTITY	
Concrete (Railing)	CY/LF	0.107	
Concrete (Noise Wall)	CY/LF	0.136	

CHANGED TO: 81.55 241.58

(The above quantities are based on the Concrete Barrier/ Noise wall typical section, (excluding junction slab or footing)

LB/LF

LB

<del>- 69.36</del>

226.85



Reinforcing Steel (Typical)

Additional Reinf. @ Open Joint





# CONCRETE BARRIER/NOISE WALL (8'-0")





1'-1012"

BILL OF REINFORCING STEEL			
MARK	SIZE	LENGTH	
R1	5	5'-2''	
R2	5	5'-2½"	
R3	5	4'-10''	
51	5	As Reqd.	
52	5	7'-3"	
V (Wall)	5	6'-6½"	
V (T-Footing)	5	7' <i>-8<sup>1</sup>/2</i> "	



REINFORCING STEEL NOTES:

1. All bar dimensions in the bending diagrams are out to out.

- 2. All reinforcing steel at the open joints shall have a 2" minimum cover.
- 3. Bars 5R shall be one continuous or lap spliced bar. No mechanical couplers are permitted.
- 4. Bars 5S1 may be continuous or spliced at the construction joints. Lap splices for Bars 5R, 5S1 and 5W shall be a minimum of 2'-2".
- 5. The Contractor may use Welded Wire Reinforcement (WWR) when approved by the Engineer. WWR must consist of deformed wire meeting the requirements of Specification Section 931.
- 6. See Index 521-514 and 521-515 for L-shaped and Trench footing vertical reinforcing.

ESTIMATED TRAFFIC			
RAILING/NOISE	WALL	QUANTITIES	

ITEM	UNIT	QUANTITY
Concrete (Railing)	CY/LF	0.107
Concrete (Noise Wall)	CY/LF	0.136
Reinforcing Steel (Typical)	LB/LF	81.55
Additional Reinf. @ Open Joint	LB	241.58

(The above quantities are based on the Concrete Barrier/ Noise wall typical section, (excluding junction slab or footing)

LAST REVISION 11/01/23





# CONCRETE BARRIER/NOISE WALL (8'-0")

