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Proposed Revisions to a Standard Plans Index

(Please provide all information — Incomplete forms will be returned)

Contact Information:

Standard Plans:

Date: May 2, 2023 Originator: Joshua Turley Phone: (850) 414-4475 Index Number: 700-030 Sheet Number (s): 1 of 1

Email: joshua.turley@dot.state.fl.us

Index Title: WIND AND HANGER BEAMS FOR OVERHEAD

SIGNS

Summary of the changes:

Sheet 1: Revise the bolts in the Hanger Beams to show correctly. Added language to Detail B bolt call out to clarify number of bolts required.

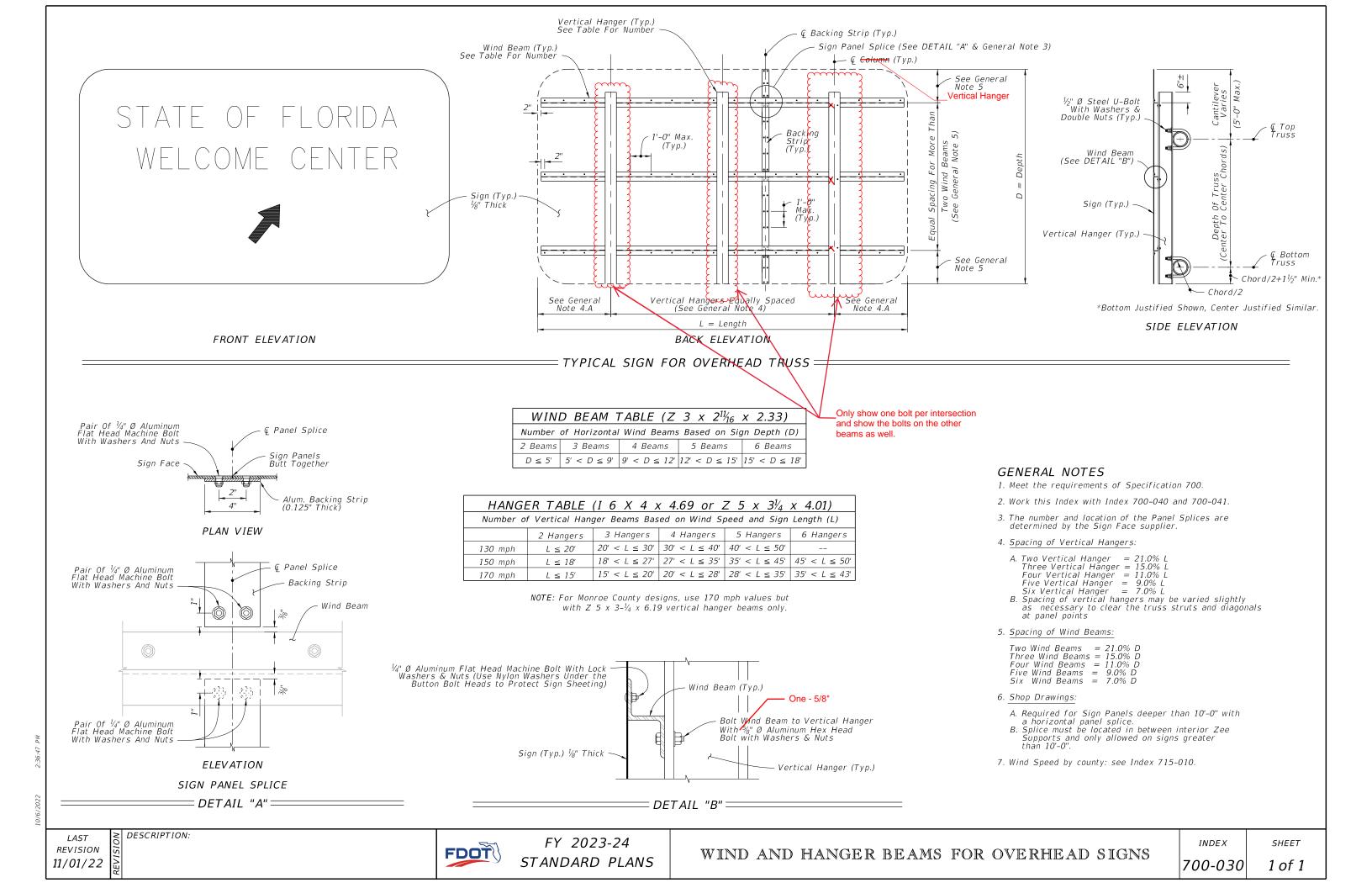
Commentary / Background:

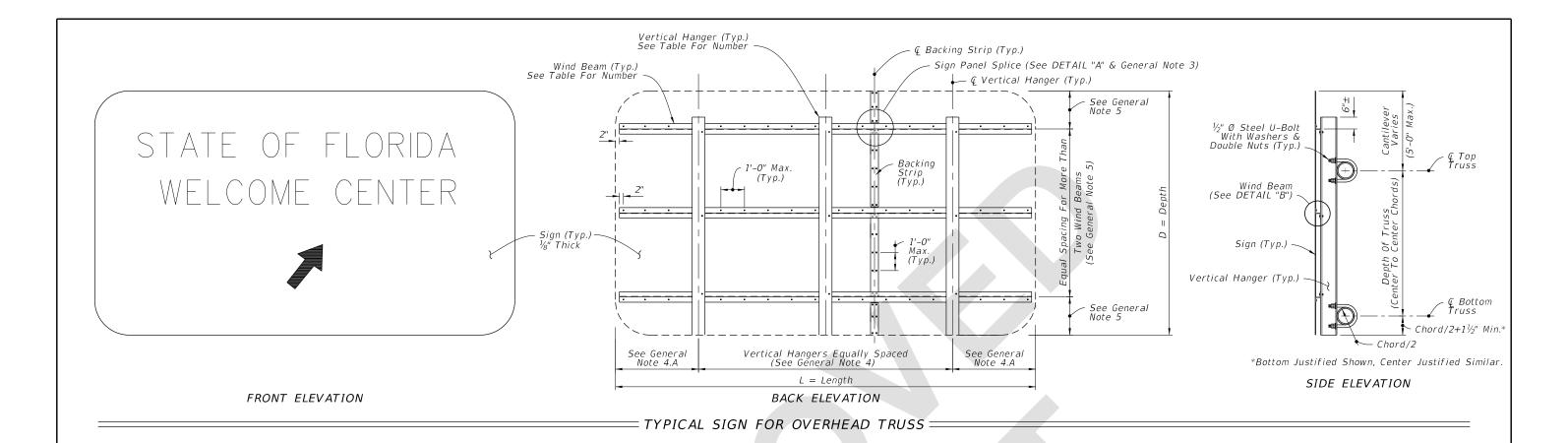
We received a query about the required number of bolts per intersection of the hanger beam and the wind beams. The bolts were not showing correctly in the elevation details so we corrected it.

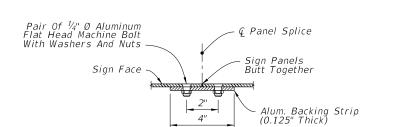
Other Affected Offices / Documents: (Provide name of person contacted)

Yes	No		
✓		Other Standard Plans – 700-020	
	/	FDOT Design Manual –	
	/	Basis of Estimates Manual –	
	\checkmark	Standard Specifications –	
	/	Approved Product List –	
	/	Construction –	
	\checkmark	Maintenance –	
<u>Origin</u>	atio	n Package Includes: (Submit package to Rick Jenkins)	Implementation:
Yes	N/A	4	Design Bulletin (Interim)
/		Redline Mark-ups	☐ DCE Memo
		Revised or Proposed Standard Plan Instruction (SPI)	Program Mgmt. Bulletin
		Other Support Documents	▼ FY-Standard Plans (Next Release)

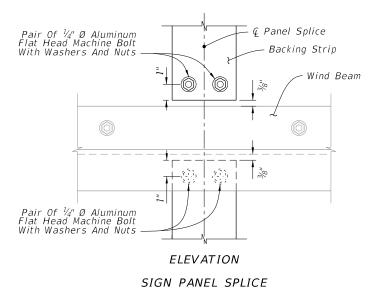
Contact the Roadway Design Office for assistance in completing this form -







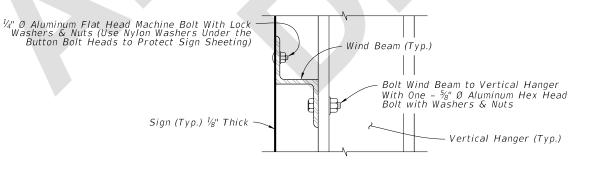
PLAN VIEW



WIND BEAM TABLE (Z 3 x $2^{11}/16$ x 2.33)								
Number of Horizontal Wind Beams Based on Sign Depth (D								
2 Beams	3 Beams	4 Beams	5 Beams	6 Beams				
D ≤ 5′	$5' < D \le 9'$	$9' < D \le 12'$	$12' < D \le 15'$	$15' < D \le 18'$				

HANGER TABLE (I 6 X 4 x 4.69 or Z 5 x $3\frac{1}{4}$ x 4.01)							
Number of Vertical Hanger Beams Based on Wind Speed and Sign Length (L)							
	2 Hangers	3 Hangers	4 Hangers	5 Hangers	6 Hangers		
130 mph	L ≤ 20'	20' < L ≤ 30'	$30' < L \le 40'$	$40' < L \le 50'$			
150 mph	$L \leq 18'$	18' < L ≤ 27'	$27' < L \le 35'$	35' < L ≤ 45'	$45' < L \leq 50'$		
170 mph	L ≤ 15'	$15' < L \le 20'$	20' < L ≤ 28'	28' < L ≤ 35'	35' < L ≤ 43'		

NOTE: For Monroe County designs, use 170 mph values but with Z 5 x $3-\frac{1}{4}$ x 6.19 vertical hanger beams only.



= DETAIL "B" ===

GENERAL NOTES

- 1. Meet the requirements of Specification 700.
- 2. Work this Index with Index 700-040 and 700-041.
- 3. The number and location of the Panel Splices are determined by the Sign Face supplier.
- 4. Spacing of Vertical Hangers:
- A. Two Vertical Hanger = 21.0% L Three Vertical Hanger = 15.0% L Four Vertical Hanger = 11.0% L Five Vertical Hanger = 9.0% L Six Vertical Hanger = 7.0% L Six Vertical Hanger
- B. Spacing of vertical hangers may be varied slightly as necessary to clear the truss struts and diagonals at panel points
- 5. Spacing of Wind Beams:

Two Wind Beams = 21.0% D Three Wind Beams = 15.0% D Four Wind Beams = 11.0% D Five Wind Beams = 9.0% D Six Wind Beams = 7.0% D

- 6. Shop Drawings:
- A. Required for Sign Panels deeper than 10'-0" with a horizontal panel splice.
- B. Splice must be located in between interior Zee Supports and only allowed on signs greater
- 7. Wind Speed by county: see Index 715-010.

LAST REVISION 11/01/23

DESCRIPTION:

EDETAIL "A"=



FY 2024-25 STANDARD PLANS

INDEX

SHEET 1 of 1

700-030