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REVISION 11/01/17



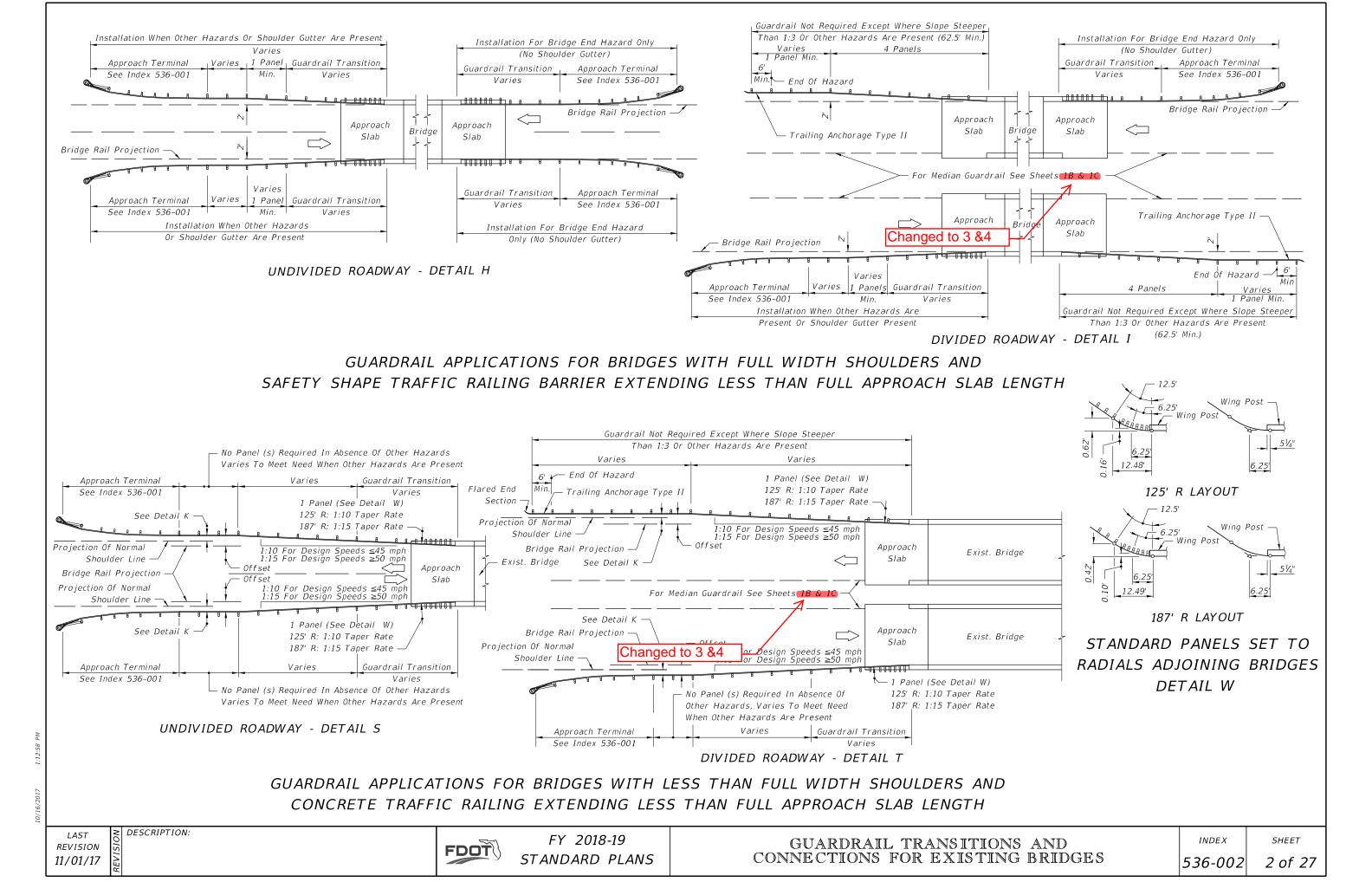


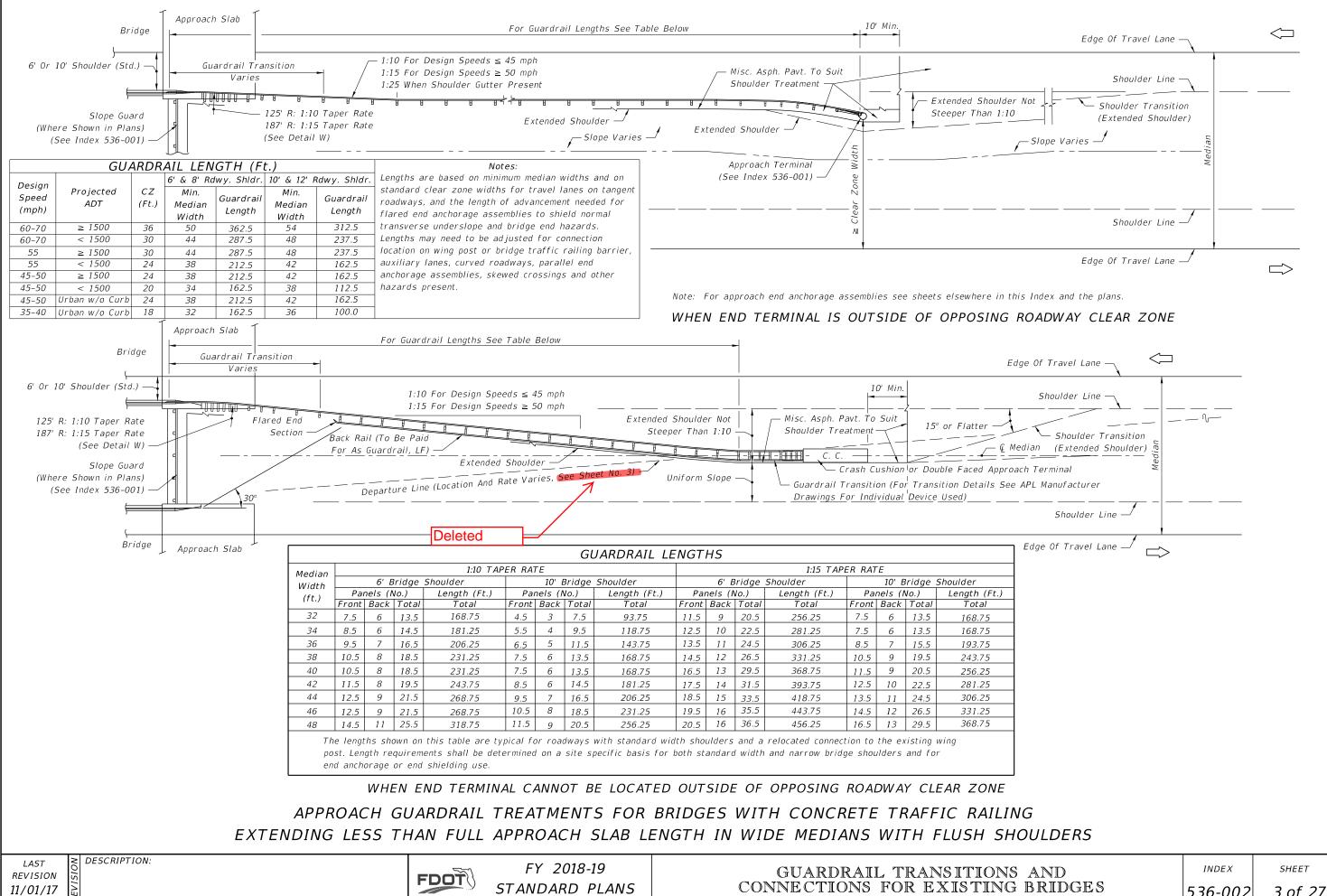
STANDARD PLANS

GUARDRAIL TRANSITIONS A CONNECTIONS FOR EXISTING B

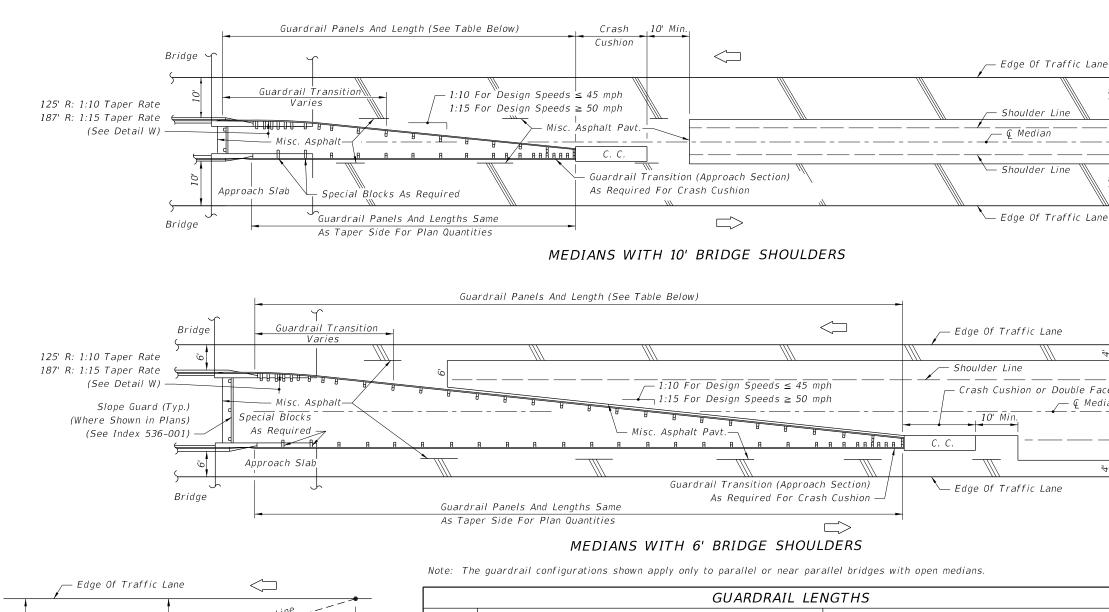
tor attachments will vary for traffic railing barrier vertical face retrofits.

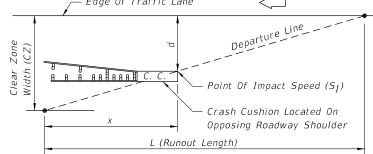
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Speed (S<sub>I</sub>) For Determining Crash Cushion Size:  $S_I = \frac{x}{L} (Design Speed) = \left[\frac{(CZ - d)}{CZ}\right] Design Speed$ SIZING CRASH CUSHIONS LOCATED

ON OPPOSING ROADWAY SHOULDERS

GUARDRAIL LENGTHS							
MEDIAN	6' BRIDGE SHOULDERS				10' BRIDGE	SHOULDERS	
WIDTH	1:10 TAPI	ER RATE	1:15 TAP	ER RATE	1:10 TAP	ER RATE	1:15 TAPI
(Ft.)	PANELS (No.)	LENGTH (Ft.)	PANELS (No.)	LENGTH (Ft.)	PANELS (No.)	LENGTH (Ft.)	PANELS (No.)
30	12.5	156.25	18.5	231.25	6.5	81.25	9.5
28	11.5	143.75	16.5	206.25	5.5	68.75	7.5
26	9.5	118.75	14.5	181.25	5.5*	68.75	5.5*
24	8.5	106.25	11.5	143.75	5.5*	68.75	5.5*

The lengths shown in this table are based on standard widths for roadway and bridge median shoulders. Length requirement standard width and narrow bridge shoulders and end anchorage or end shielding requirements shall be determined on a site s When crash cushions are required on opposing roadway shoulders, their sizes may be determined by the residual speeds (S1's runouts from the approach roadways; however, when calculated speeds ( $S_{I}$ 's) are less than 30 mph crash cushions shall be no than for 30 mph; see speed diagram left. The number of panels may be reduced when installing a crash cushion more than 2. see \* below.

\*Number shown is the minimum number of panels plus a W-Thrie beam transition panel; single faced quardrail must have a len or more panels.

APPROACH GUARDRAIL TREATMENTS FOR BRIDGES WITH CONCRETE TRAFFIC RAILING EXTENDING LESS THAN FULL APPROACH SLAB LENGTH IN NARROW MEDIANS WITH FLUSH SHO

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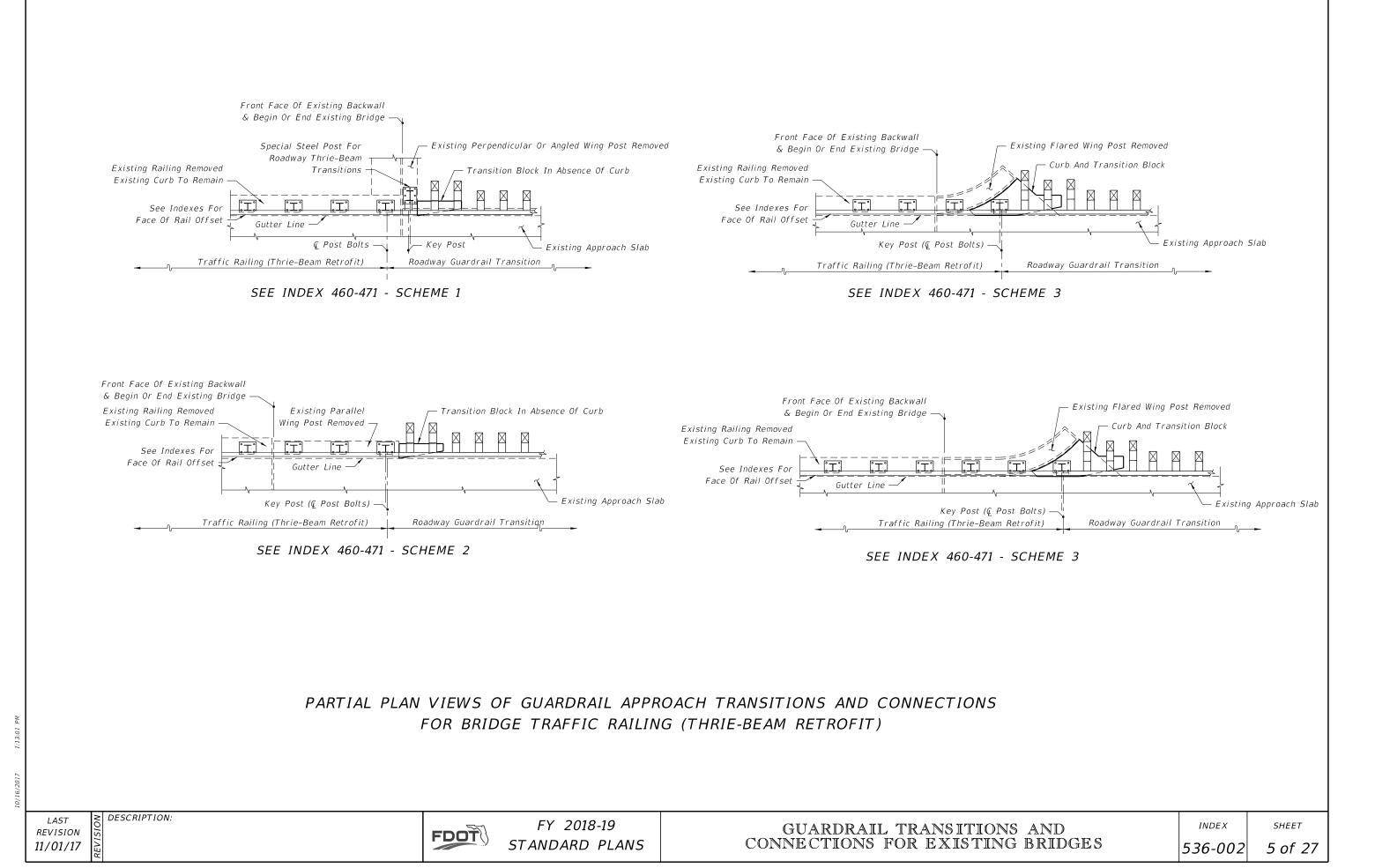


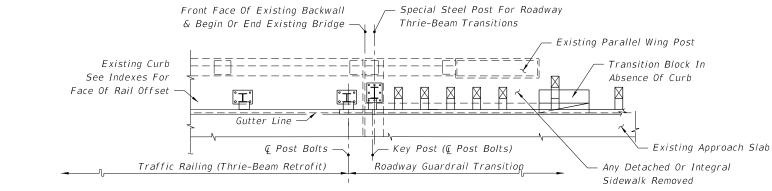
FY 2018-19 STANDARD PLANS

GUARDRAIL TRANSITIONS A CONNECTIONS FOR EXISTING BI

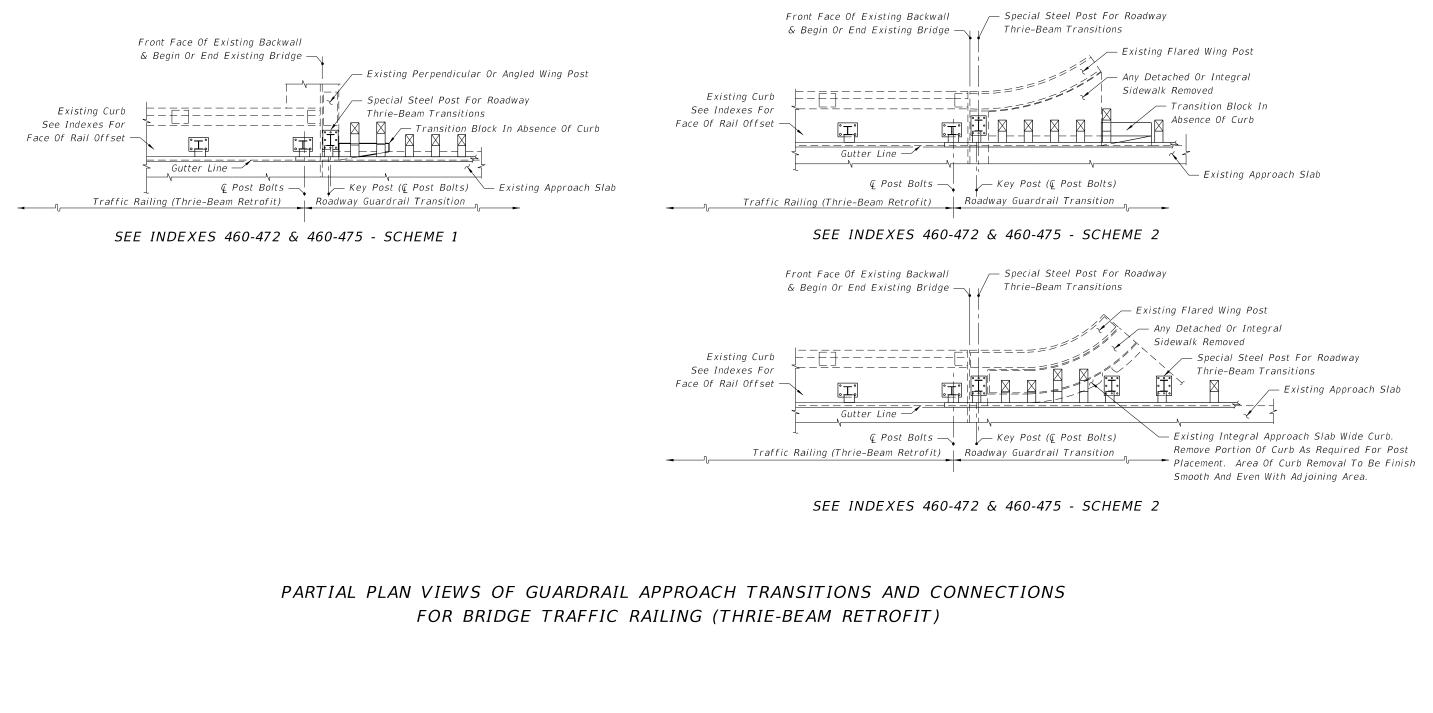
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le Faced Approach Terminal		
<u>a</u> Median		
Median		
+-		
	houlder Line	
4		
ER RATE		
LENGTH (Ft.)		
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93.75 68.75		
68.75		
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ngth of five (5)		
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SEE INDEXES 460-472 & 460-475 - SCHEME 2



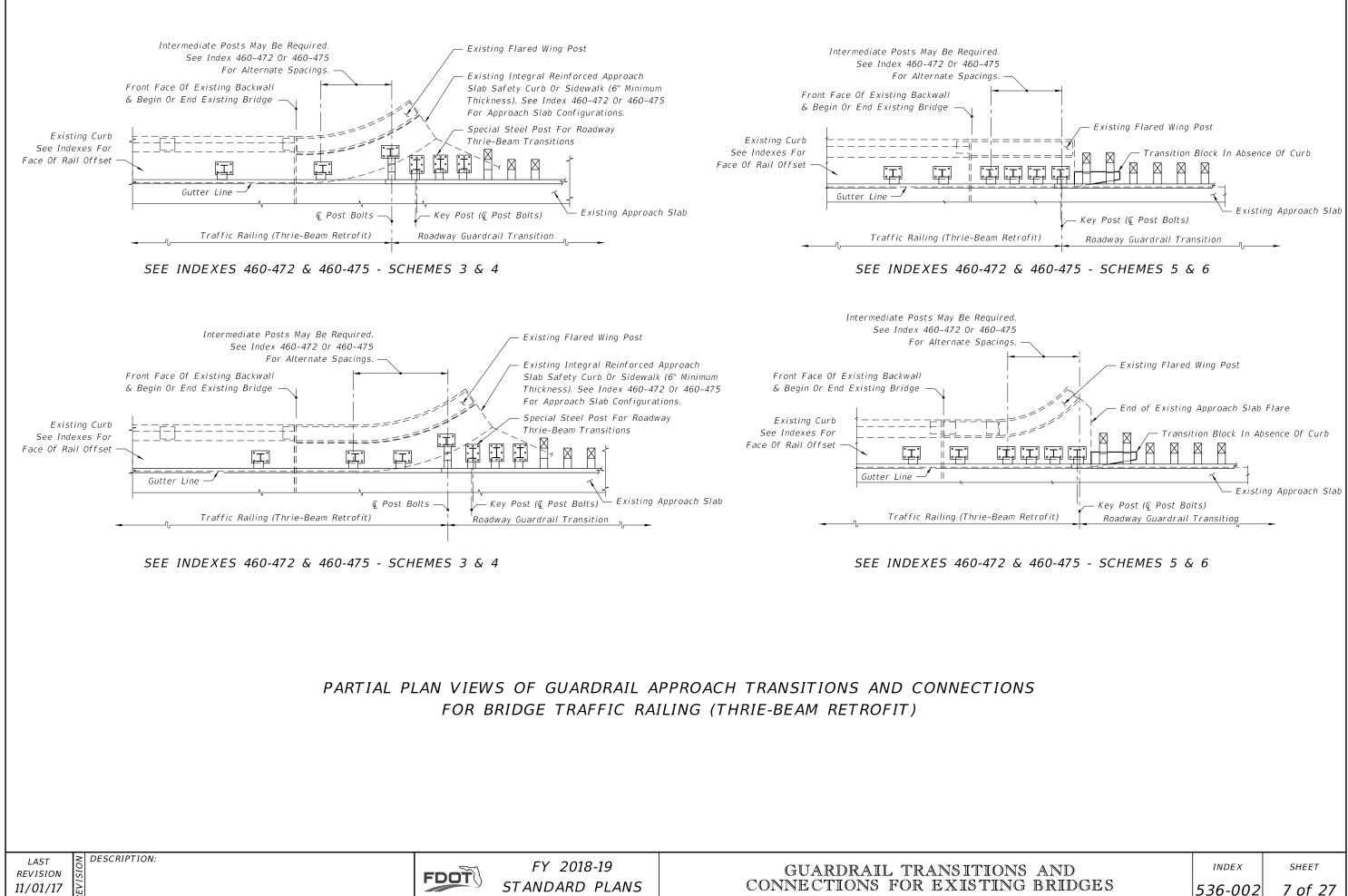
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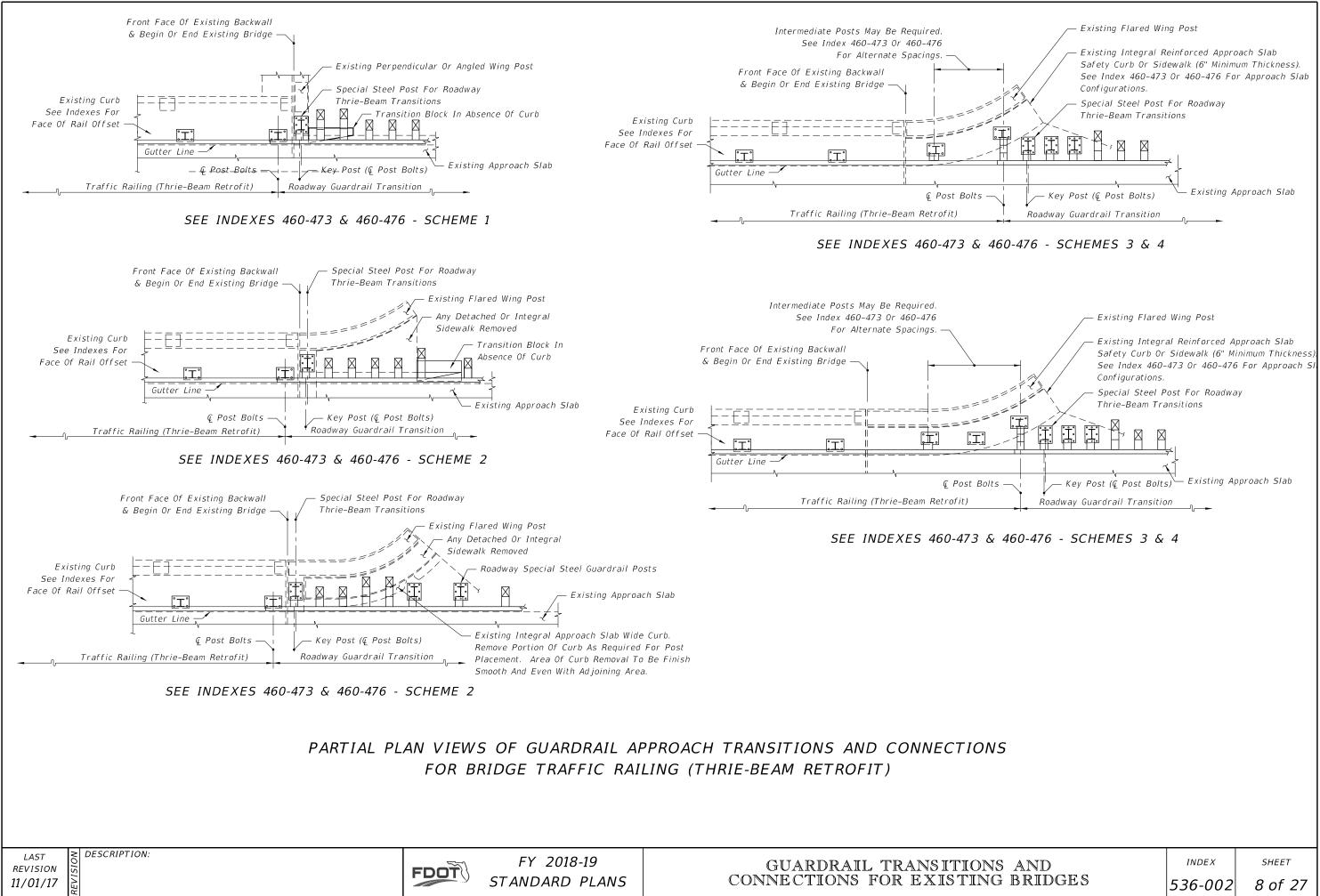




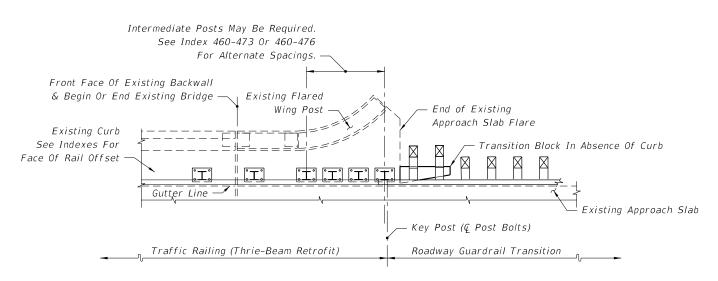
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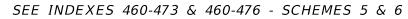


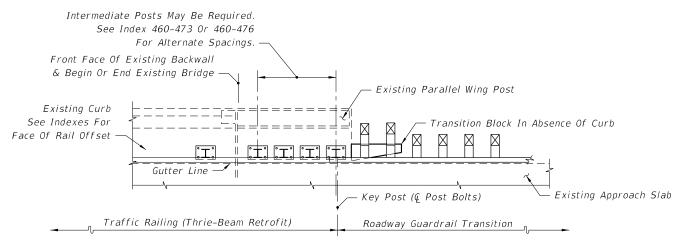
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SEE INDEXES 460-473 & 460-476 - SCHEMES 5 & 6

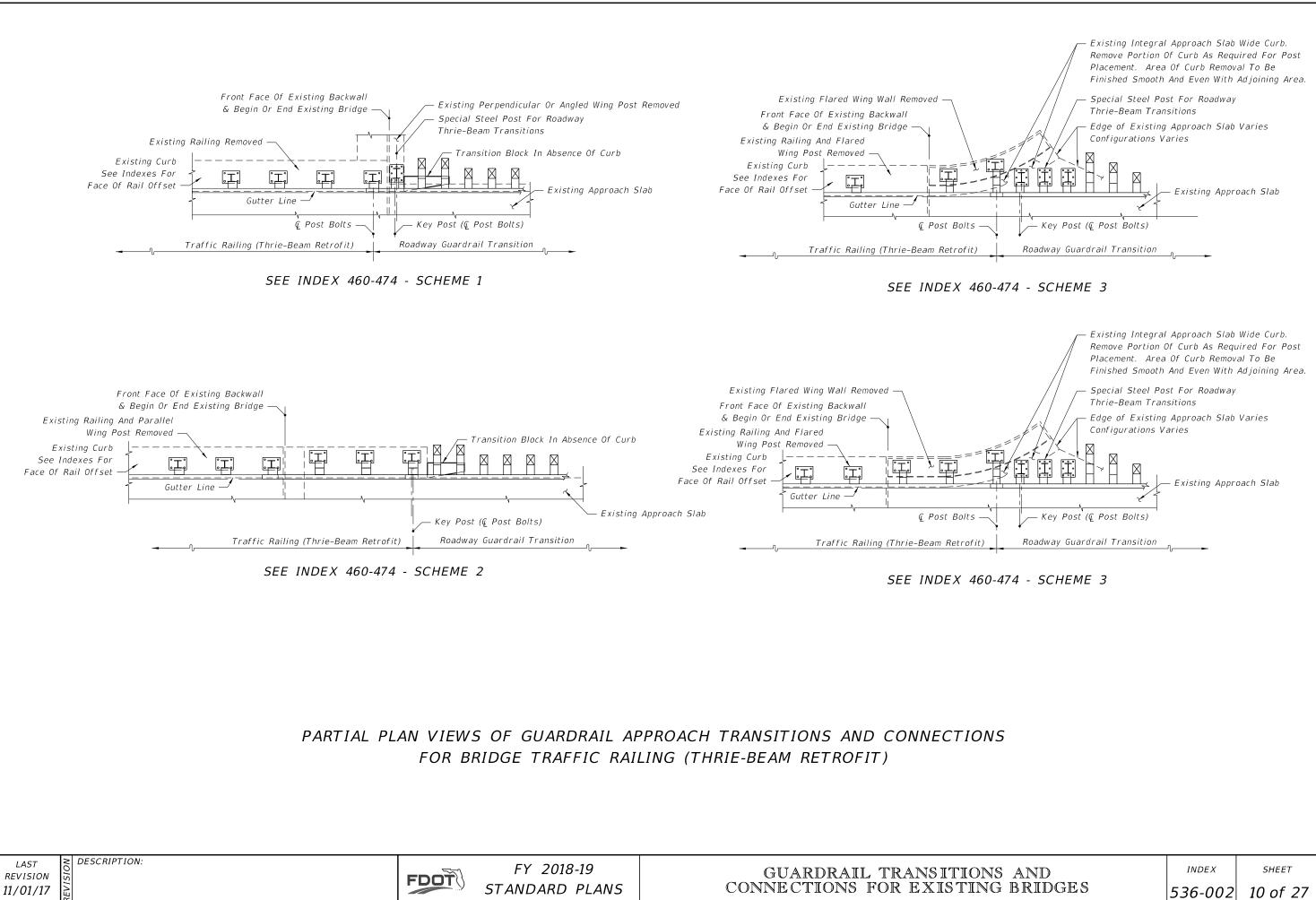
# PARTIAL PLAN VIEWS OF GUARDRAIL APPROACH TRANSITIONS AND CONNECTIONS FOR BRIDGE TRAFFIC RAILING (THRIE-BEAM RETROFIT)

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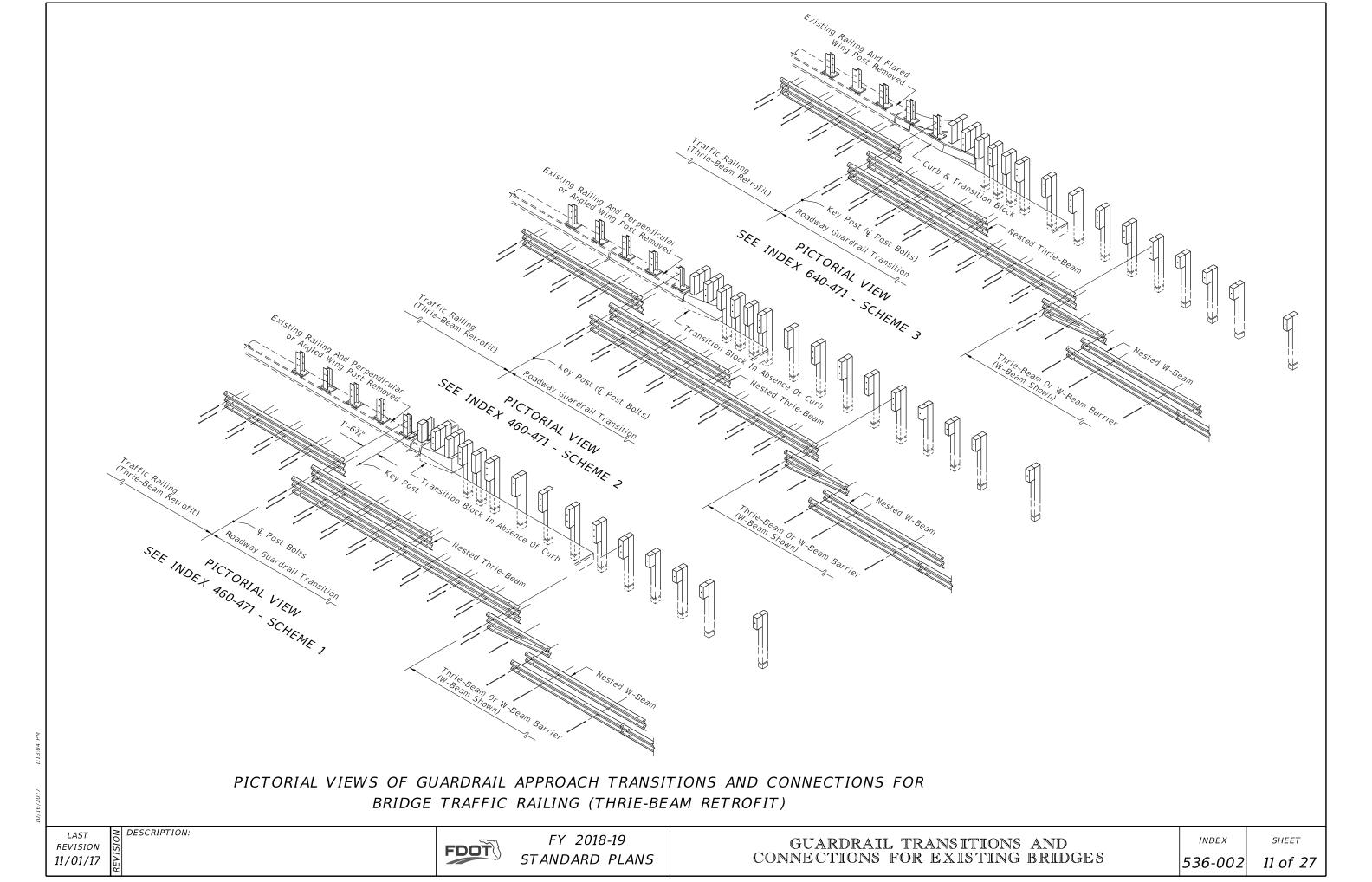




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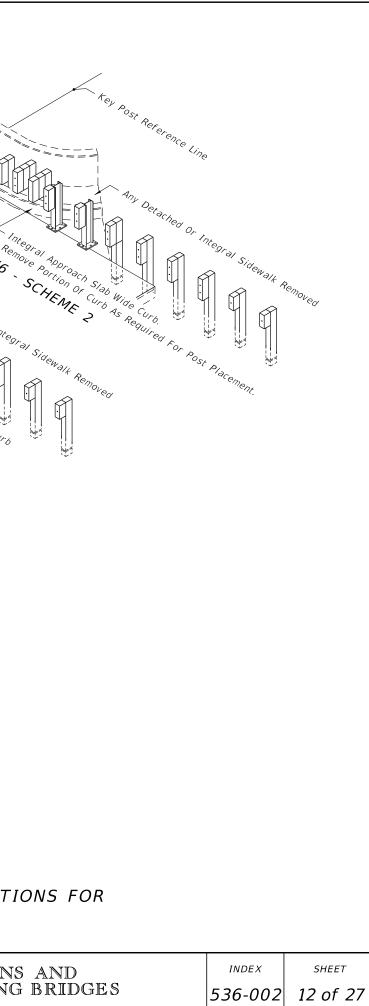
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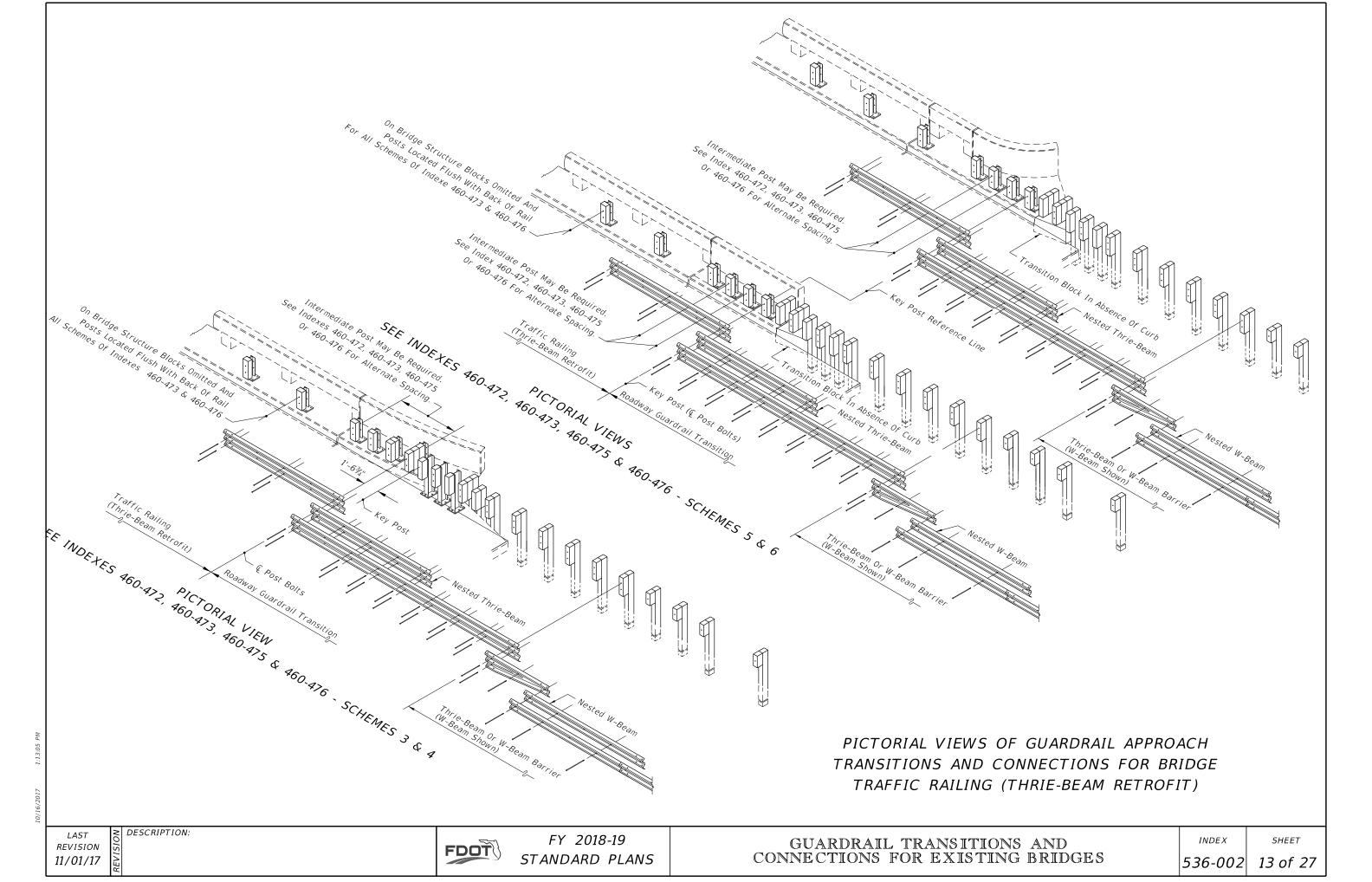


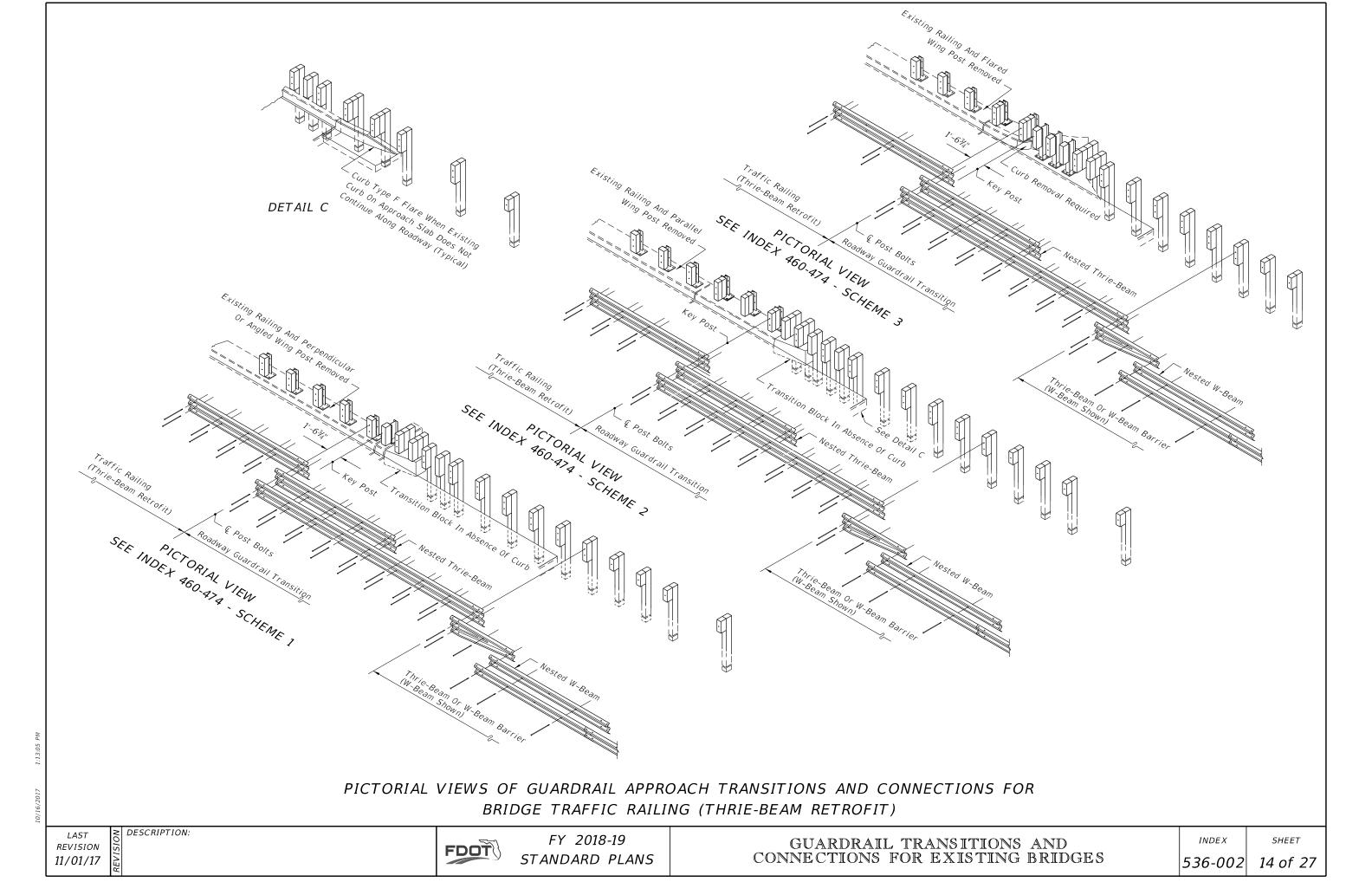
LAST	INDEXES 460-APICTORIAL VIEWS 460-AP2: 460-AP3: 460-AP5 & 460-AP6 & 5CHEM	TORIAL VIEWS OF GUARDRAIN BRIDGE TRAFFI	A 460-476 A 10 A 10 A 10 C RAILING (THRIE-BEAM	<sup>° or</sup> c <sub>urb</sub> NS AND CONNECTION RETROFIT)
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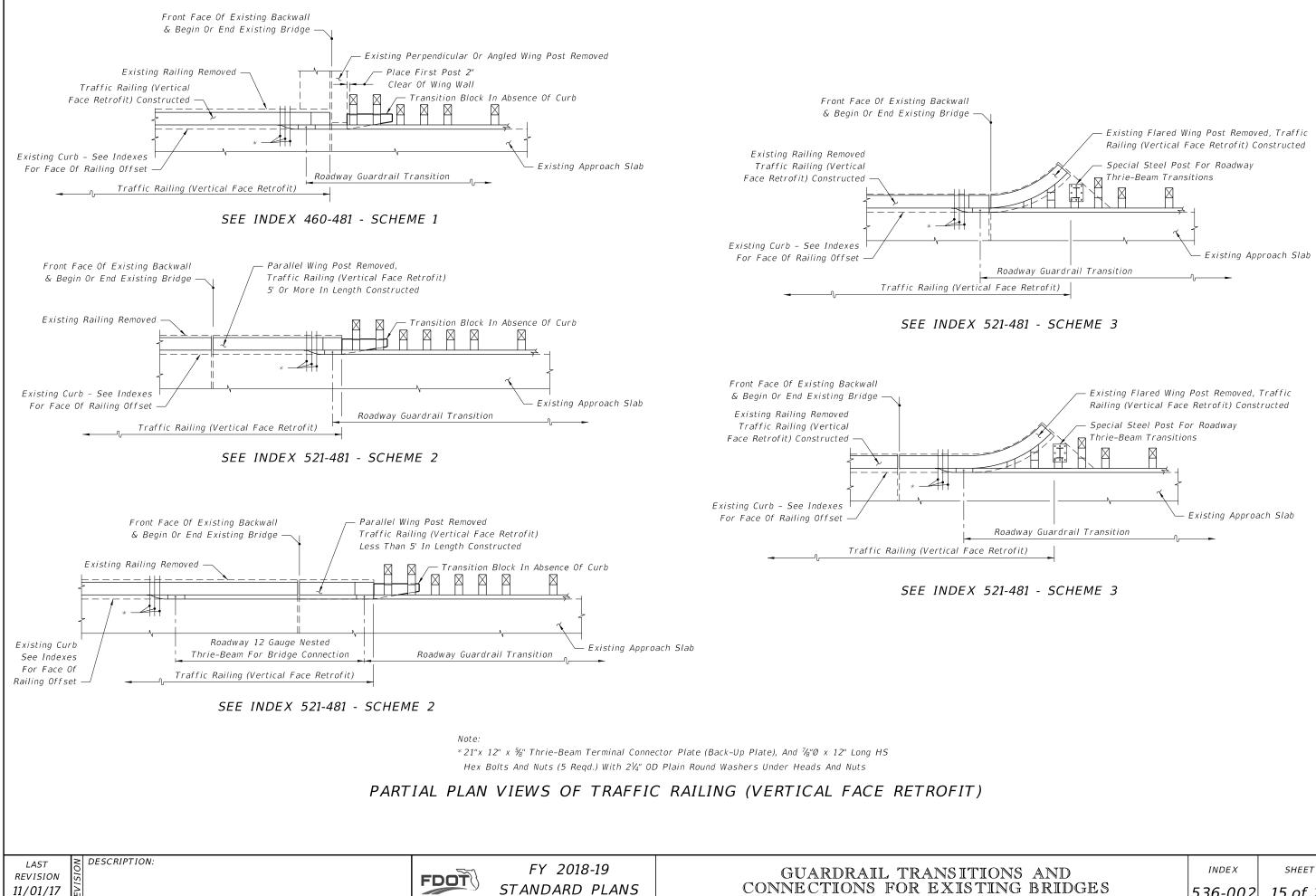
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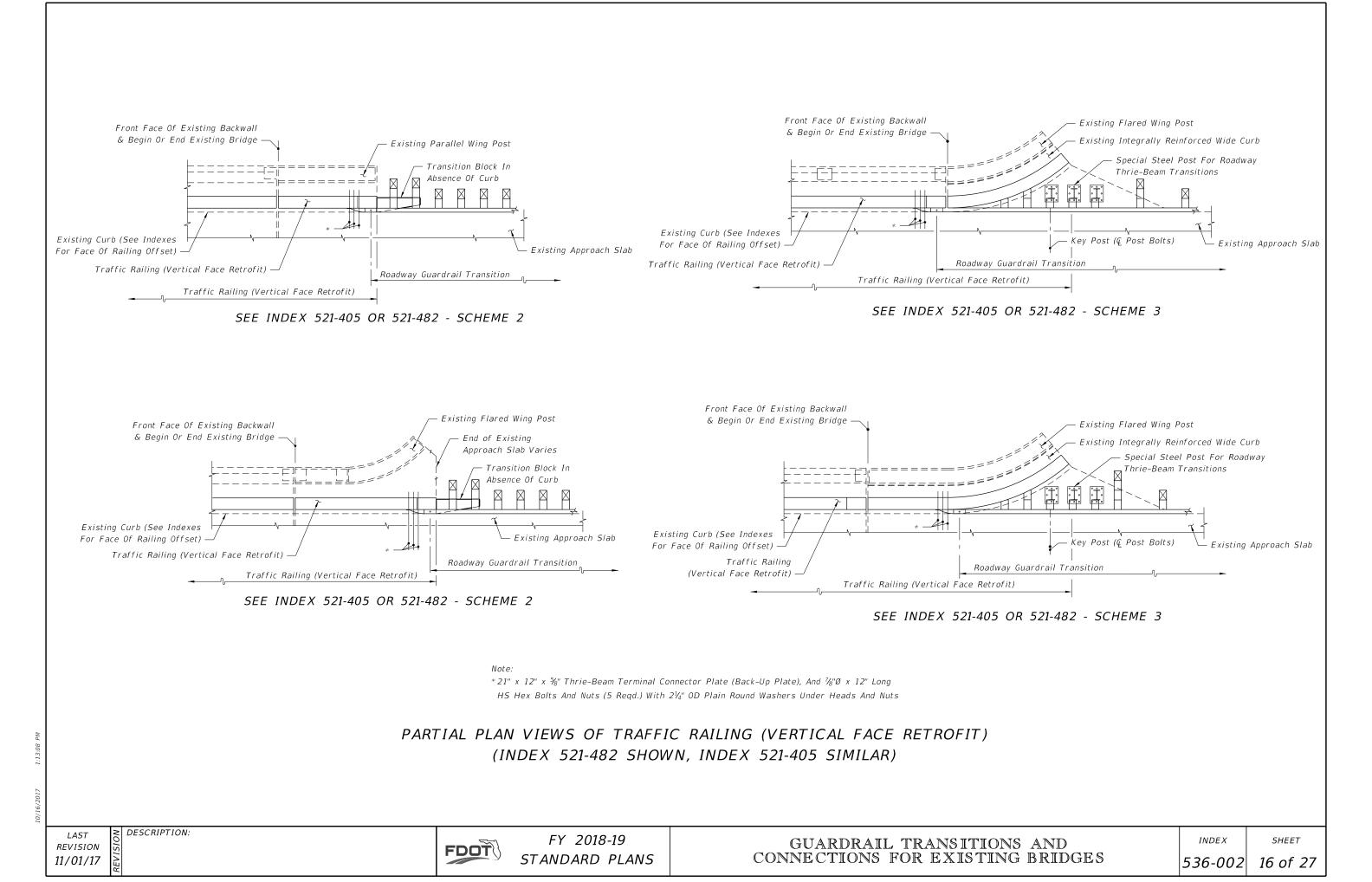


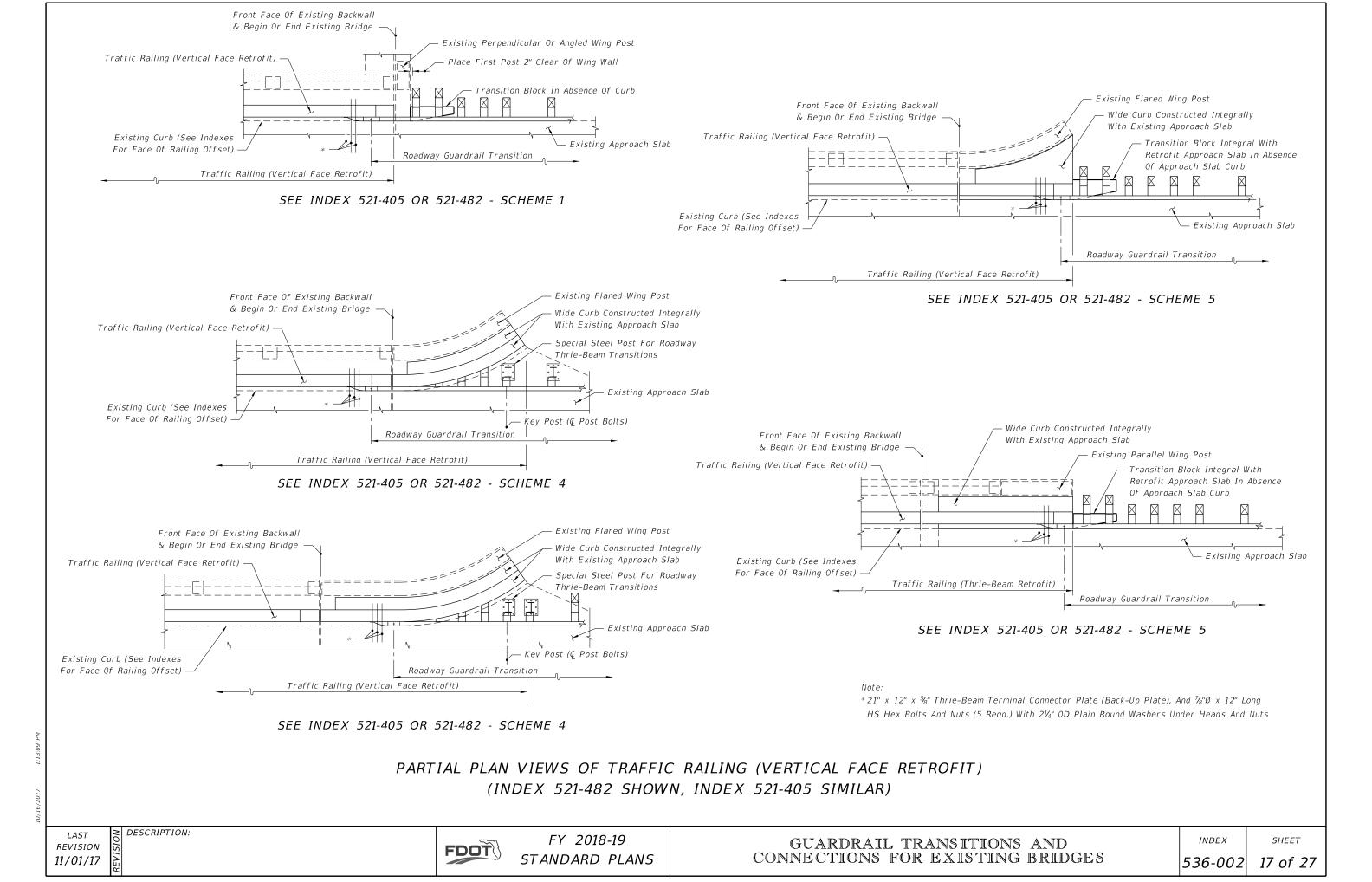


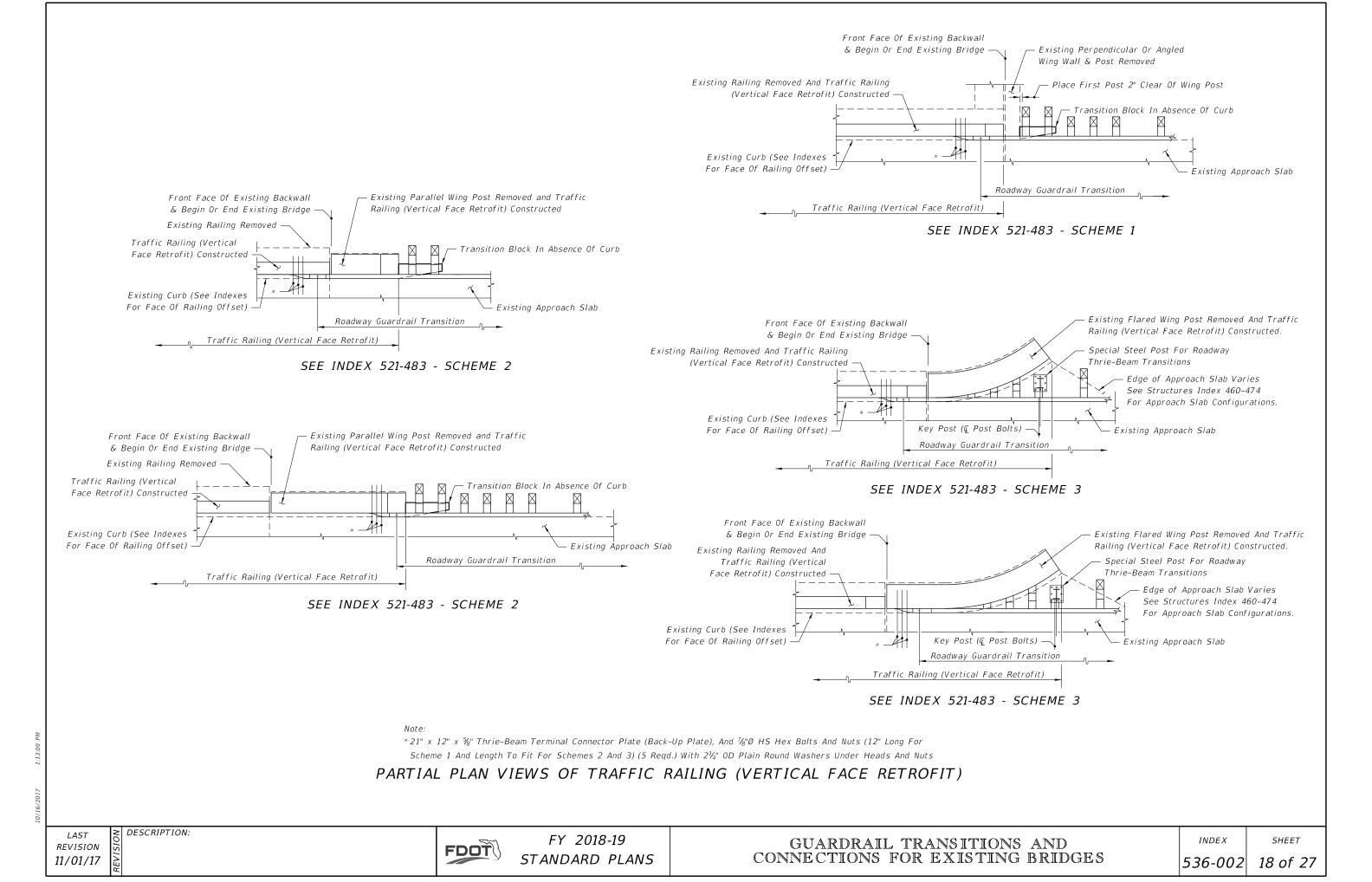


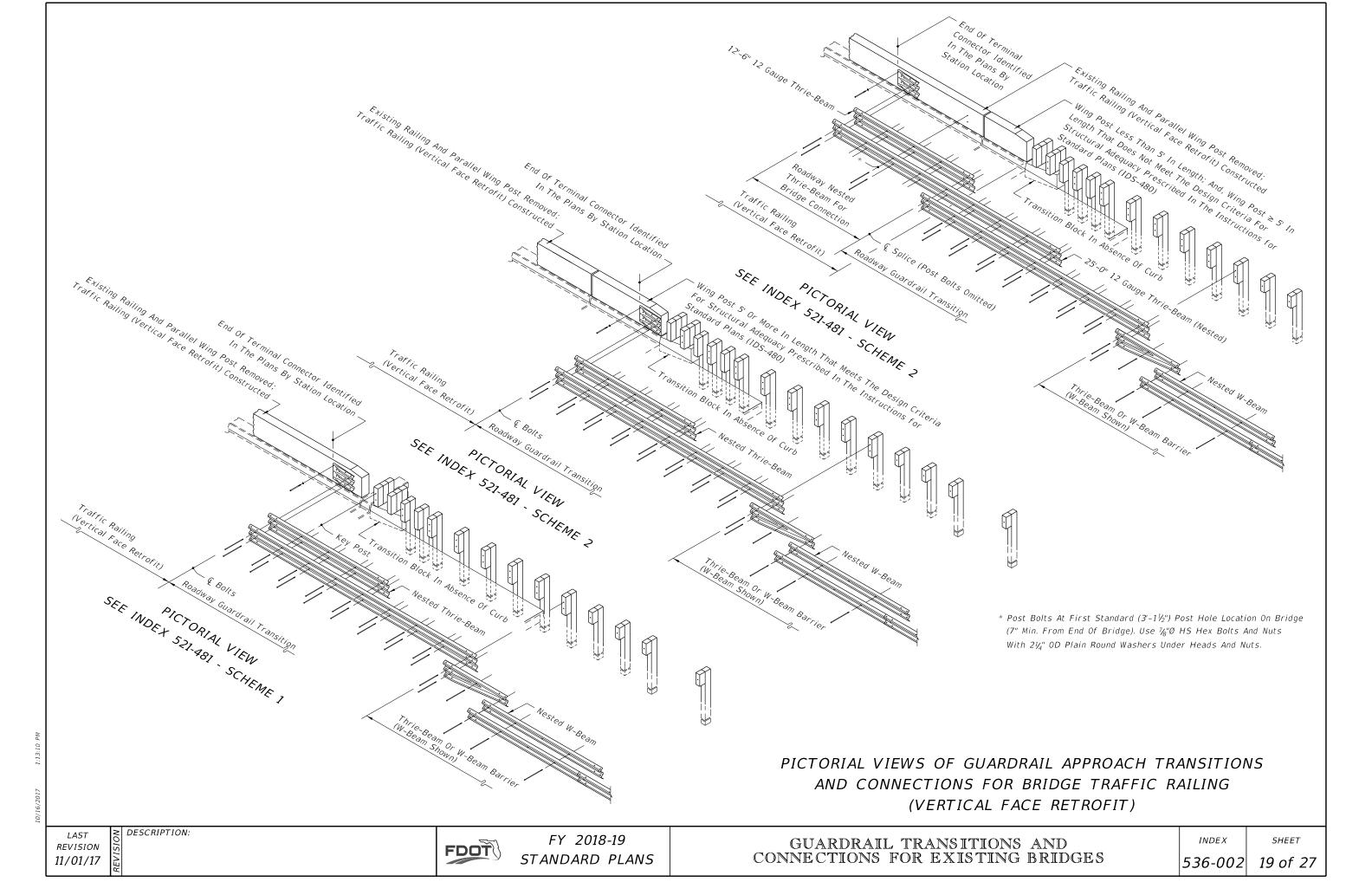
— Existing Flared Wing Post Removed, Traffic Railing (Vertical Face Retrofit) Constructed
Special Steel Post For Roadway Thrie-Beam Transitions
Existing Approach Slab
Guardrail Transition
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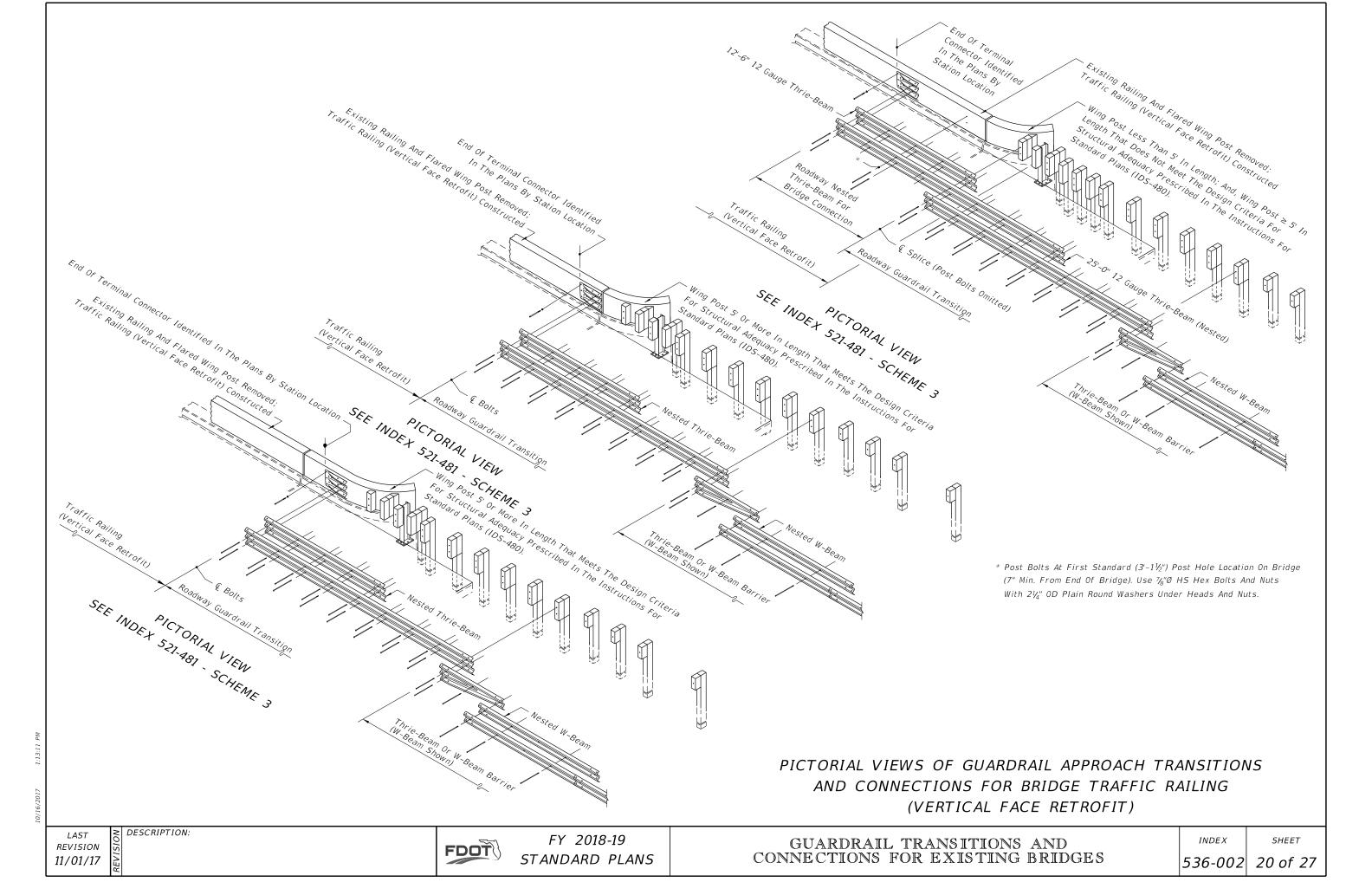
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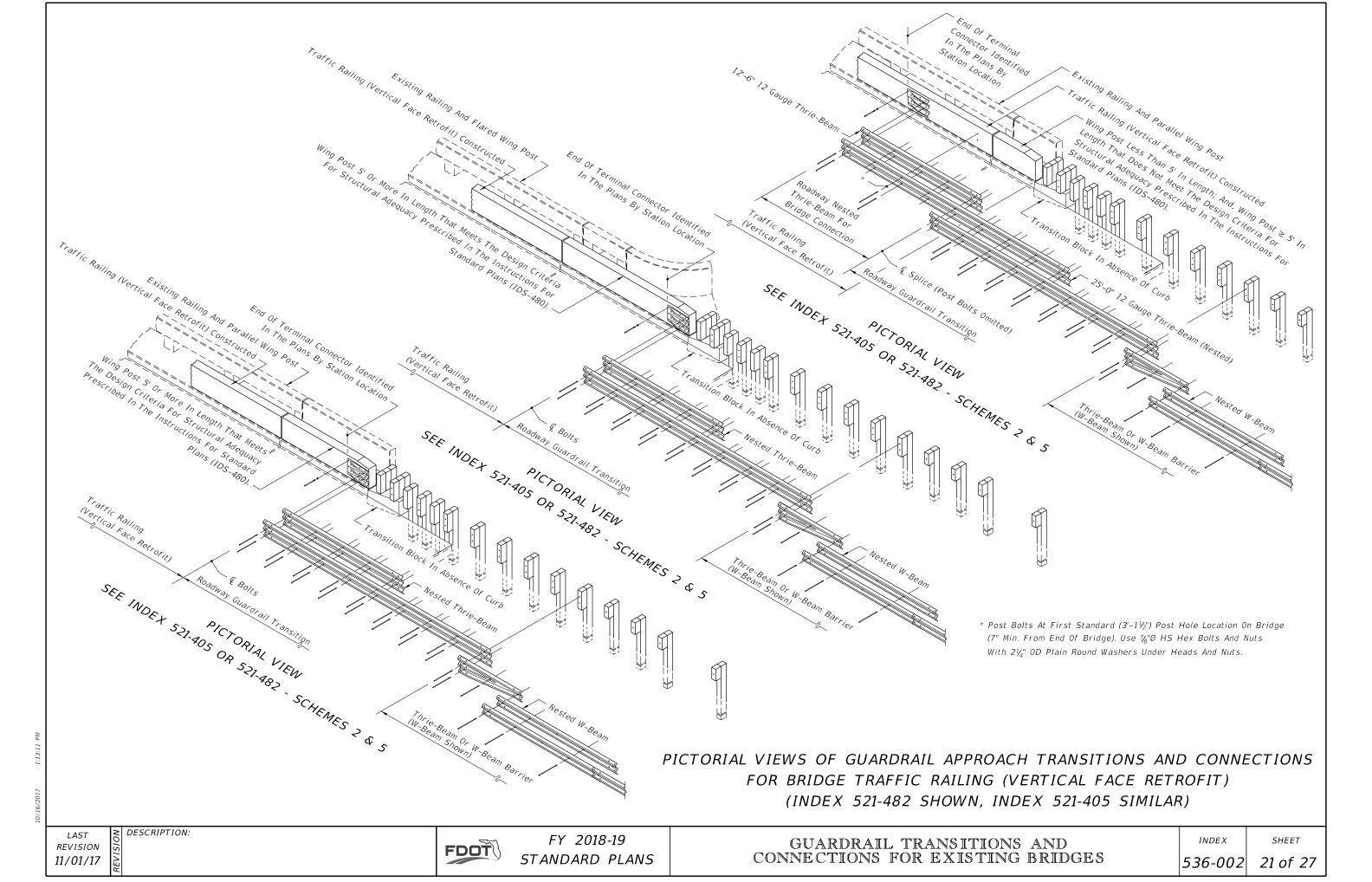


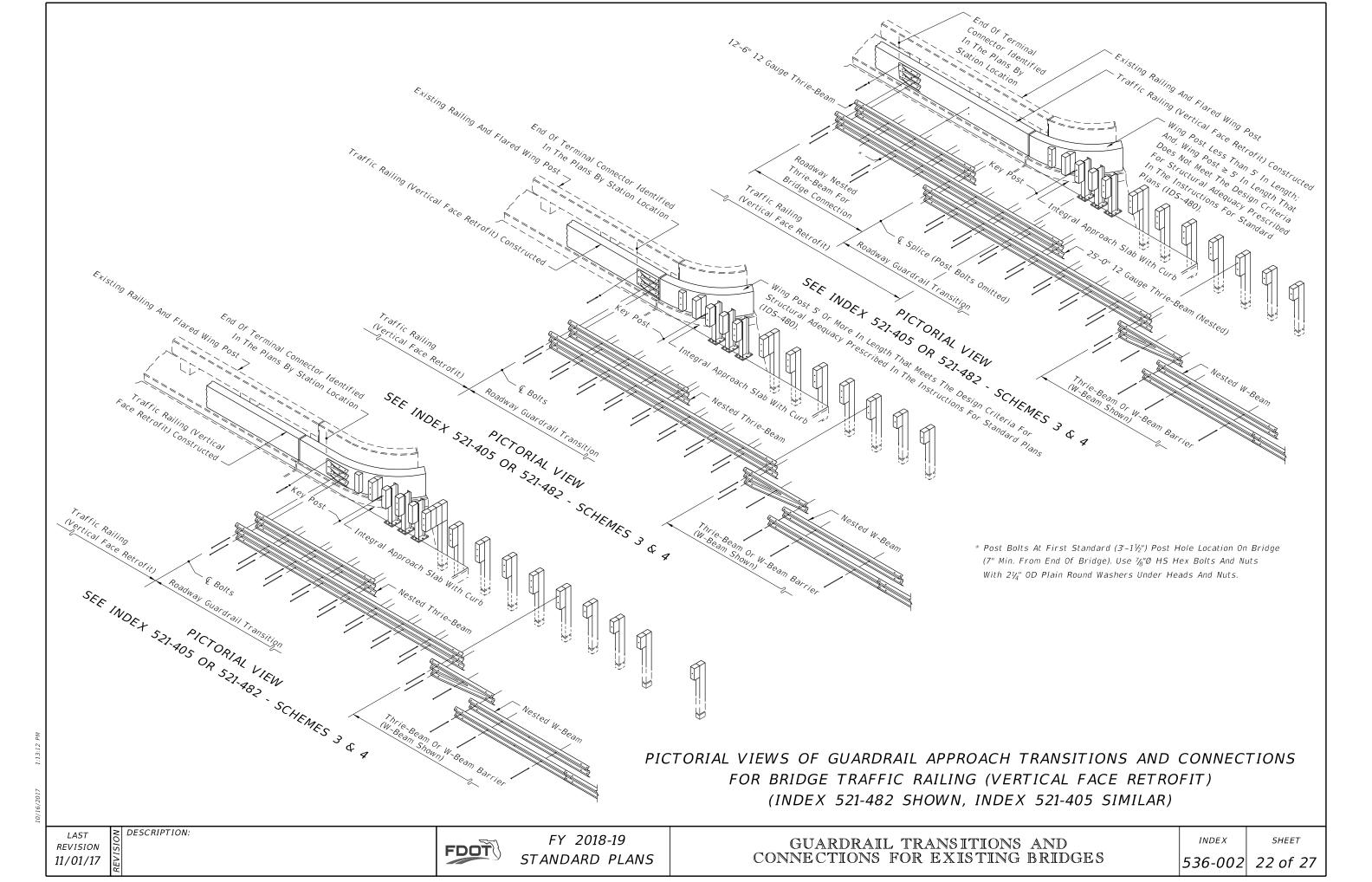


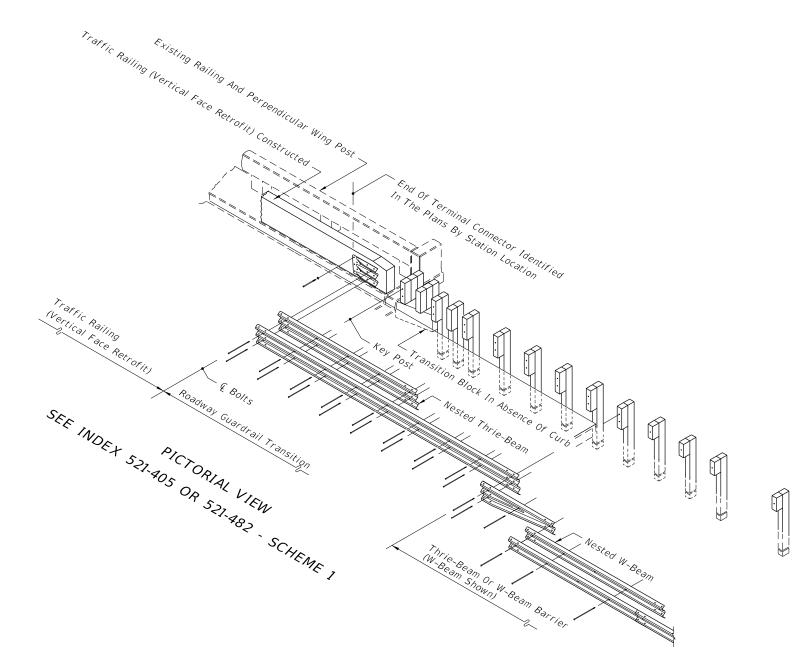










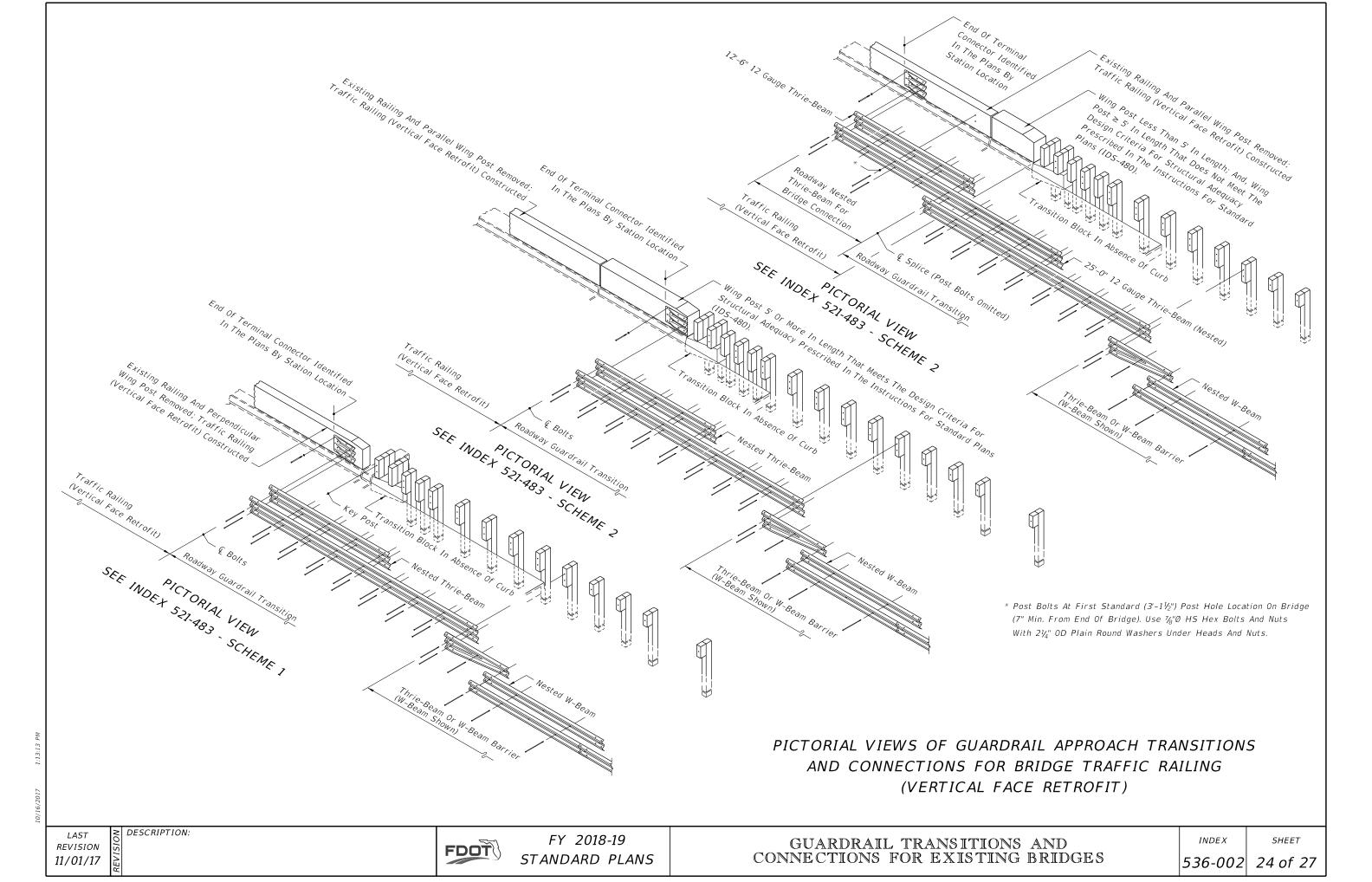


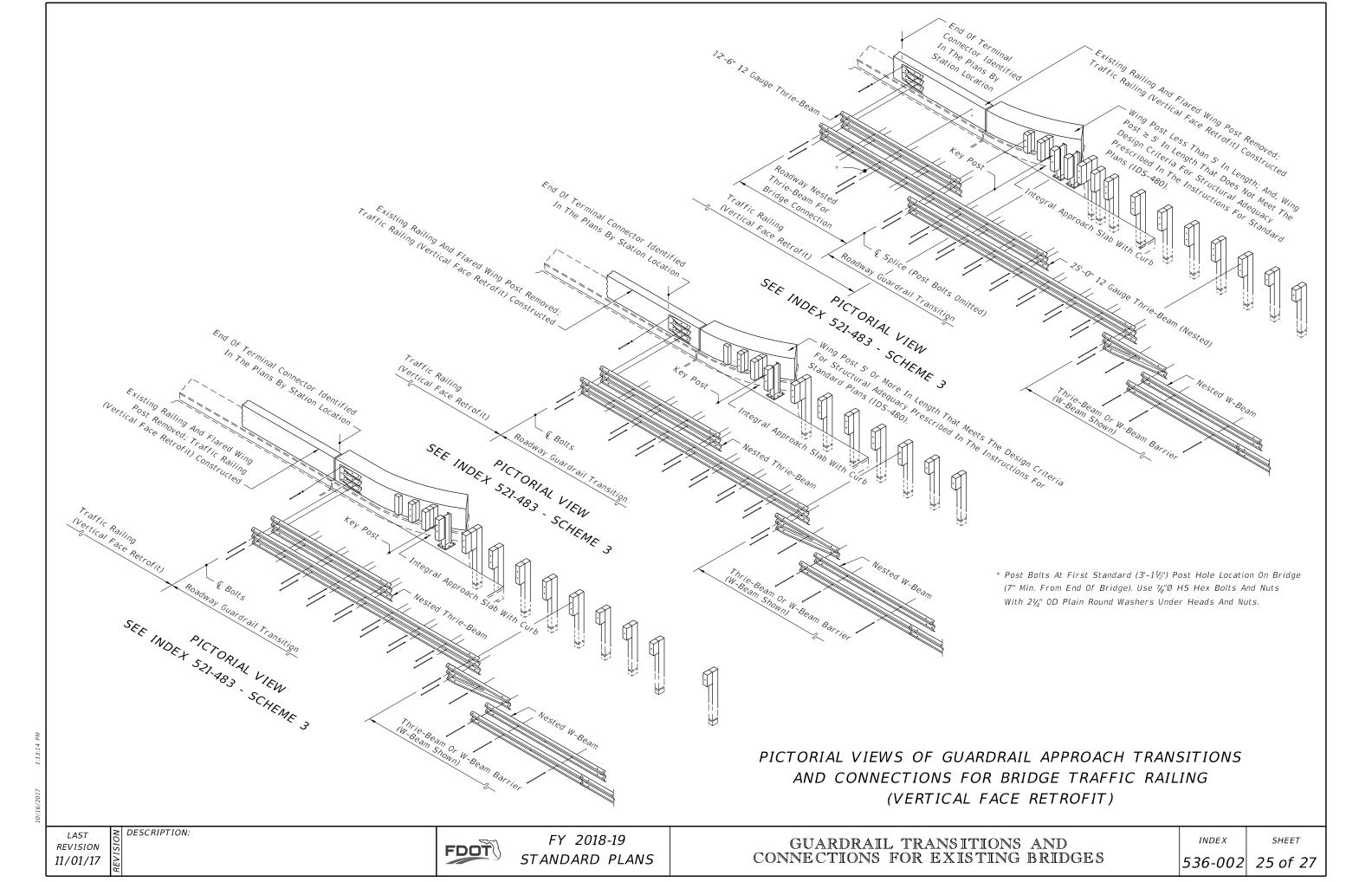
PICTORIAL VIEWS OF GUARDRAIL APPROACH TRANSITIONS AND CONNECTIONS FOR BRIDGE TRAFFIC RAILING (VERTICAL FACE RETROFIT) (INDEX 521-482 SHOWN, INDEX 521-405 SIMILAR)

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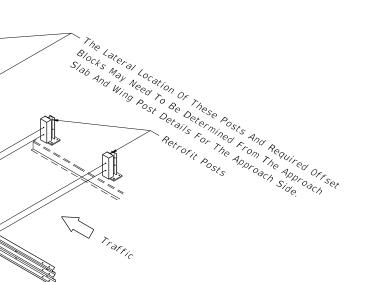
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7 1:13:15 PM	RAILING END GUARD	Trancisco PRESENT	BRIDGE TRAFFIC RAILING (THRIE BEAM RETR
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