

LAST 11/01/20

FDOT

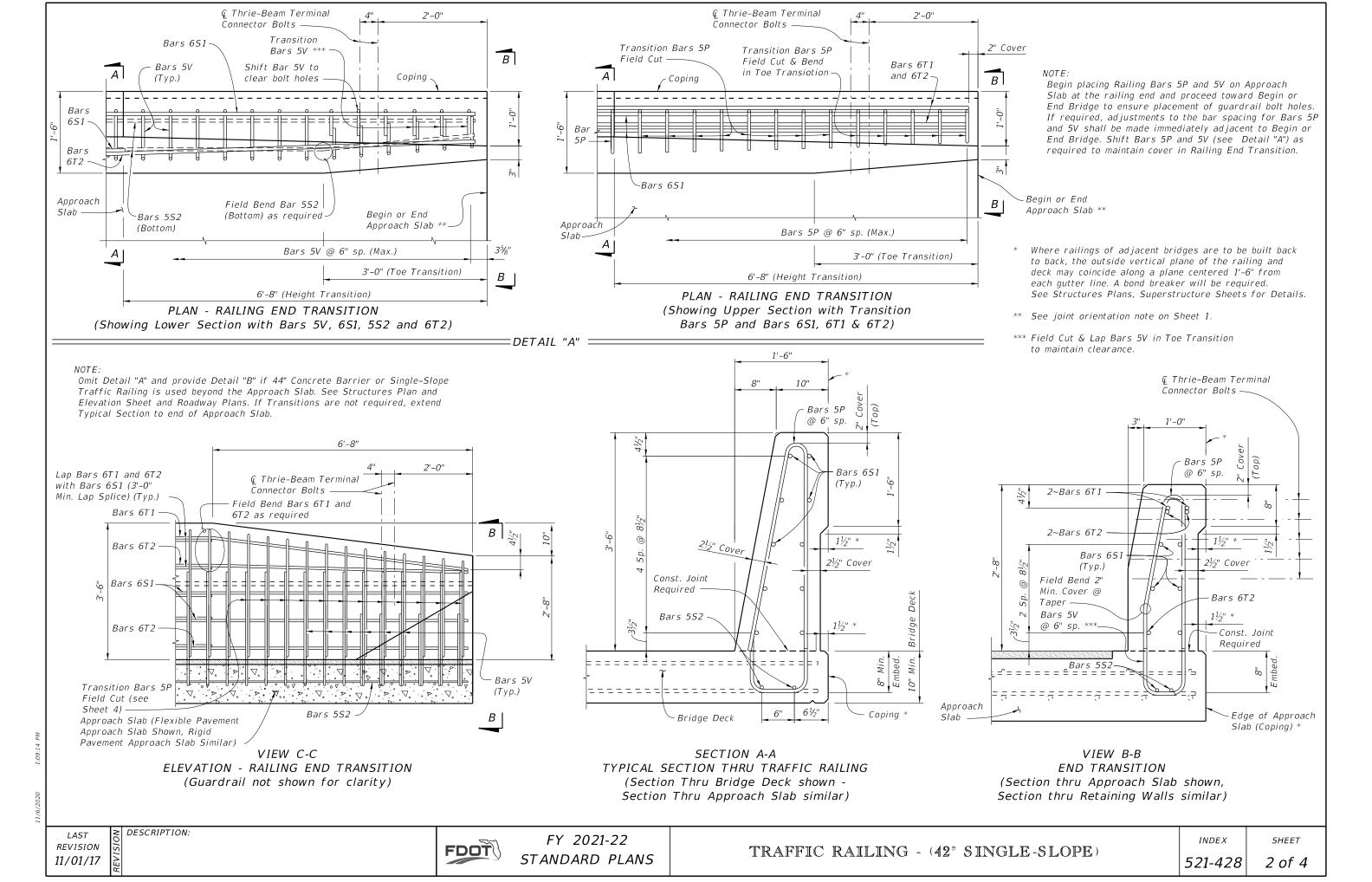
FY 2021-22 STANDARD PLANS

TRAFFIC RAILING - (42" SINGLE-SLOPE)

INDEX

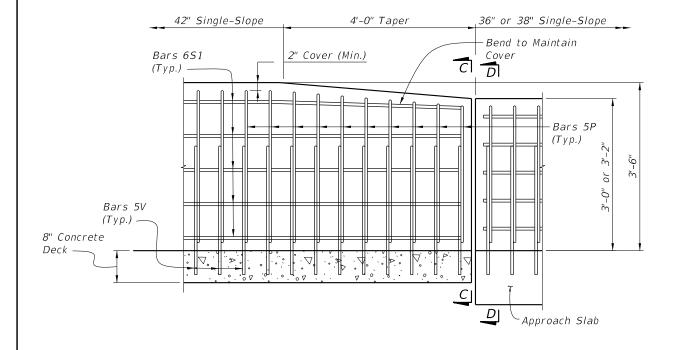
521-428 1 of 4

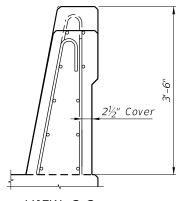
SHEET



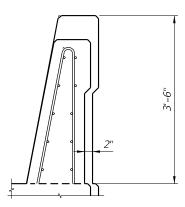
- 1. Provide Detail "B" height transition where 42" Traffic Railings are required on bridge, and 36" or 38" Barriers are shown on approaches. See Structures Plans for coping details.

 2. Work Detail "B" with Indexes 400-090 or 400-091, 521-427,
- and 521-610 as necessary.
- 3. Field cut 5P Bars as shown to maintain 2" min. (4" max.) cover at top of traffic railing.





VIEW C-C RAILING HEIGHT TRANSITION (Begin/End of Bridge) (Bars 5V not shown for clarity)



SECTION D-D (Index 400-091 Shown, 400-090 Similar) (Index 521-427 Bars 4V not shown for Clarity)

DETAIL "B"

3 of 4

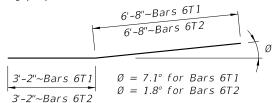
CONVENTIONAL REINFORCING STEEL BENDING DIAGRAMS

BILL OF REINFORCING STEEL				
MARK	SIZE	LENGTH		
Р	5	7'-0"		
<i>S1</i>	6	As Reqd.		
52	5	As Reqd.		
T1 & T2	6	10'-0"		
V	5	5'-9"		

ROADWAY	LOW GUTTER	HIGH GUTTER
CROSS-SLOPE	ØВ	ØВ
0% to 2%	101°	101°
2% to 6%	98°	104°
6% to 10%	95°	107°

TRANSITION BARS 6T1 & 6T2

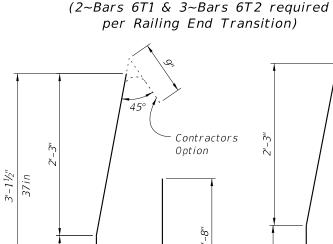
ØA and ØB shall be 90° if Contractor elects to place Railing perpendicular to the Deck.



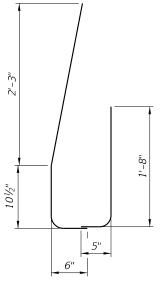
Length as Required

BARS 6S1 & 5S2

111/2" 71/4" Bend Inside Dia. = 3" Field Bend -(as required to maintain cover) Field Cut & Discard



101/2"



STIRRUP BAR 5P

TRANSITION STIRRUP BAR 5P To Be Field Cut (10 of each required per Railing End Transition)

STIRRUP BAR 5V

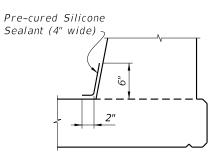
11"

END STIRRUP BAR 5V To Be Field Cut and Lapped

REINFORCING STEEL NOTES:

DESCRIPTION:

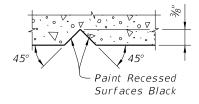
- 1. All bar dimensions in the bending diagrams are out to out.
- 2. All reinforcing steel at the open joints shall have a 2" minimum cover.
- 3. Bars 6S1 may be continuous or spliced at the construction joints. Lap splices for Bars 6S1 and 5S2 shall be a minimum of 3'-0" and 2'-2", respectively.
- 4. The Contractor may utilize deformed WWR when approved by the Engineer. WWR must meet the requirements of Specification Section 931.



DETAIL "C" - SECTION AT INTERMEDIATE OPEN JOINT

INTERMEDIATE JOINT SEAL NOTES:

- 1. At Intermediate Open Joints, seal the lower 6" portion of the open joint with Pre-cured Silicone Sealant in accordance with Specification Section 932.
- 2. Apply sealant prior to any Class V finish coating and remove all curing compound and loose material from the surface prior to application of bonding agent.
- 3. The cost of the Pre-cured Silicone Sealant shall be included in the Contract Unit Price for the Traffic Railing.



SECTION THRU RECESSED "V" GROOVE TO FORM INSCRIBED LETTERS AND FIGURES

ESTIMATED TRAFFIC RAILING QUANTITIES			
ITEM	UNIT	QUANTITY	
Concrete	CY/LF	0.143	
Reinforcing Steel	LB/LF	39.34	

The estimated railing quantities are based on a 2% deck cross slope; railing on low side of deck.