Origination Form

Proposed Revisions to a Standard Plans Index

Originator:	Turley, Joshua	Index Number:	102-201
Date:	6/17/2025	Sheet Number(s):	1-5
E-mail:	Joshua.Turley@dot.state.fl.us	Index Title:	Temporary Acrow 700XS Series Detour Bridge General Notes and Details

Summary of the changes:

Sheet 1: Added some clarifying terms to the Notes. Removed errant shear panel and part number from TYPICAL ELEVATION VIEW.

Sheet2: Added some clarifying language to asphalt overlay notes in SECTION A-A.

Sheet 3: Added clarifying notes to TYPICAL DETAIL AT INTERMEDIATE PIER. Corrected table reference in TYPICAL DETAIL AT ABUTMENTS. Added note to EOB AT DECK DETAIL

Sheet 4: Updated BOLSTER DETAIL with new detail provided by ACROW

Sheet 5: Inserted rows corresponding to an additional Transom option (AB1006). Add notes about epoxy aggregate deck.

Commentary/Background:

All these changes were made after review and recommendation from ACROW. These changes add clarity and correction and include updated inventory options.

Other Affected Documents/Offices	Person Contacted	Affected (Yes/No)
Other Standard Plans		No
FDOT Design Manual		No
Standard Specifications		No
Basis of Estimates Manual		No
Approved Product List		No
Construction Office		No
Maintenance Office		No

Implementation

["FY-Standard Plans (Next Release)"]

Work this Index with Index 102-210, 102-220 and 102-230.

STRUCTURAL STEEL: Steel Plates shall be ASTM A709 Grade 36. except when deck and curb panels with an epoxy aggregate non-skid driving surface are used,

EXPANSION BEARINGS:

Inspect the PTFE (Teflon) layer and stainless steel plate prior to installation. Do not use bearings that have a severely damaged or unbonded PTFE layer. Clean PTFE of all grit and grime prior to installation.

Clean Stainless steel plate of all grit and grime prior to installation and finish to a

smooth-buffed-suxface......

keeper channels DISTRIB<mark>U</mark>TION BEAMS:

Distribution beam stops restraining the distribution beams may be lengthened or shortened to center the distributing beam bearing on the cage beam. The longitudinal stops are to bear on the distributing beam and frame.

ends of the keeper channels EXPANSION JOINT SETTINGS:

Install the expansion joint considering the total continuous bridge length, location of fixed bearings and ambient temperature at the time of installation, assume a 2" expansion joint opening at 70 degrees F, (Expansion joint depends on span/bridge length and configuration).

STORAGE FACILITY:

Contact

FDOT Statewide Aluminum Shop 2590 Camp Rd. Oviedo, Fl. 407-278-2727

For shipping weights and dimensions of Temporary Bridge elements. Contractor to coordinate with Storage Facility and Acrow to obtain required parts list. Shipping weights and dimensions of other bridge components can be referenced in "Acrow Panel Bridging, Series 700XS, Technical Handbook".

APPROACH TRAFFIC RAILING NOTES:

See Index 536-001 for component details, geometric layouts and associated notes not fully detailed herein.

CONCRETE: Concrete for Transition Blocks shall be Class II (Bridge Deck).

THRIE-BEAM PANEL: Steel Thrie-Beam Elements shall meet the requirements of AASHTO M180, Type II (Zinc coated).

BOLTS, NUTS AND WASHERS:

DESCRIPTION:

Bolts, nuts and round washers shall be in accordance with AASHTO M180. Plate Washers shall be in accordance with ASTM A36 or ASTM A709 Grade 36. Do not drill Temporary Bridge components to attach Guardrail. Guardrail Bolts shall be placed between Truss members as shown in Index 102-240.

COATINGS: All Nuts, Bolts, Anchors, Washers and Backer Plates shall be hot-dip galvanized in accordance with the Specifications.

WOOD BLOCKS: All wood blocks, including required wedge shaped blocks shall be Pressure Treated Lumber in accordance with Specifications Section 955. Bolt holes in blocks to be centered $(\pm 1/4")$.

PAYMENT:

Temporary Detour Bridge is to be paid for under Contract Unit Price for Special Detour. If a temporary bridge system other than that shown herein is used, the Contractor is responsible for renting or purchasing their own system. Payment for Temporary Guardrail work and Transition Block will be made under Pay Item Temporary Guardrail, LF.

Furnish and install Bridge Thrie-Beam Panels and all associated hardware as shown. Payment will be made with the Temporary Detour Bridge under the Pay Item Special Detour, LS. Turn over Bridge Thrie-Beam Panels and all associated hardware to the Department with the Detour Bridge components per Specifications Section 102-6.

2026-27

FY 2025-26 STANDARD PLANS

INDEX

DECK BOLT

SHEET

REVISION

FDOT

TEMPORARY ACROW 700XS SERIES DETOUR BRIDGE GENERAL NOTE AND DETAILS

REINFORCING CHORD 20'-0" TOP & BOTTOM (TYP.)

CHORD BOLT

TYPICAL ELEVATION VIEW

CURB UNIT;

DECK, UNIT

DECK UNIT

DECK UNIT

DECK UNIT

DECK UNIT

CURB UNIT

10'-0" BAY

(TYP)

TYPICAL PLAN VIEW

REINFORCING

(TOP & BOTTOM)

CHORD END

TRANSOM #

STRUT

(AT TOP)

TOP, BOTTOM (TYP.)

PINS @

REINFORCING CHORDS -

TRANSOM

CURB UNIT

DECK UNIT

DECK UNIŢ

DECK UNIT

DECK UNIT

DECK UNIT

CURB

DIAGONAL BRACE

`∖CURB UNIT/

DECK UNIT

DECK UNIŢ

STRUT

(AT TOP)

DECK UNIT

DECK UNIT

DECK UNIT

CURB UNIT

USE BOLTS

TOP OF CURB

-TOP OF DECK

PANEL

~PANEL

TRANSOM

TOP CHORD BRACE

BRACE

USE CHORD BOLTS

RAKER BRACE

ONLY AT THE END

BEARING BLOCK

WITH BEARING

RAKER

BRACE

STRUT

`BRACE

OPTIONAL DOUBLE HIGH

(Truss configuration depends

on design Live load, Span, and

RAKER BRACE

-AB703 RAKER

RAKER BRACE TOP OF STEEL DECK

BEARING

BOLT

سسس RAKER BRACE

(ASPHALT NOT INCLUDED)

ABUTMENT

TRANSOM

SHEET 5 FOR TYPES)

TRANSOM BOLSTER

TRANSOM BRACES (TYP.,

BEARING €

NOTE: SEE ACROW TECHNICAL HANDBOOK AND

PARTS LIST FOR ITEM PART DETAILS

SWAYBRACE

(SEE TABLE 1

(BY OTHERS)

BRACES (TYP.)

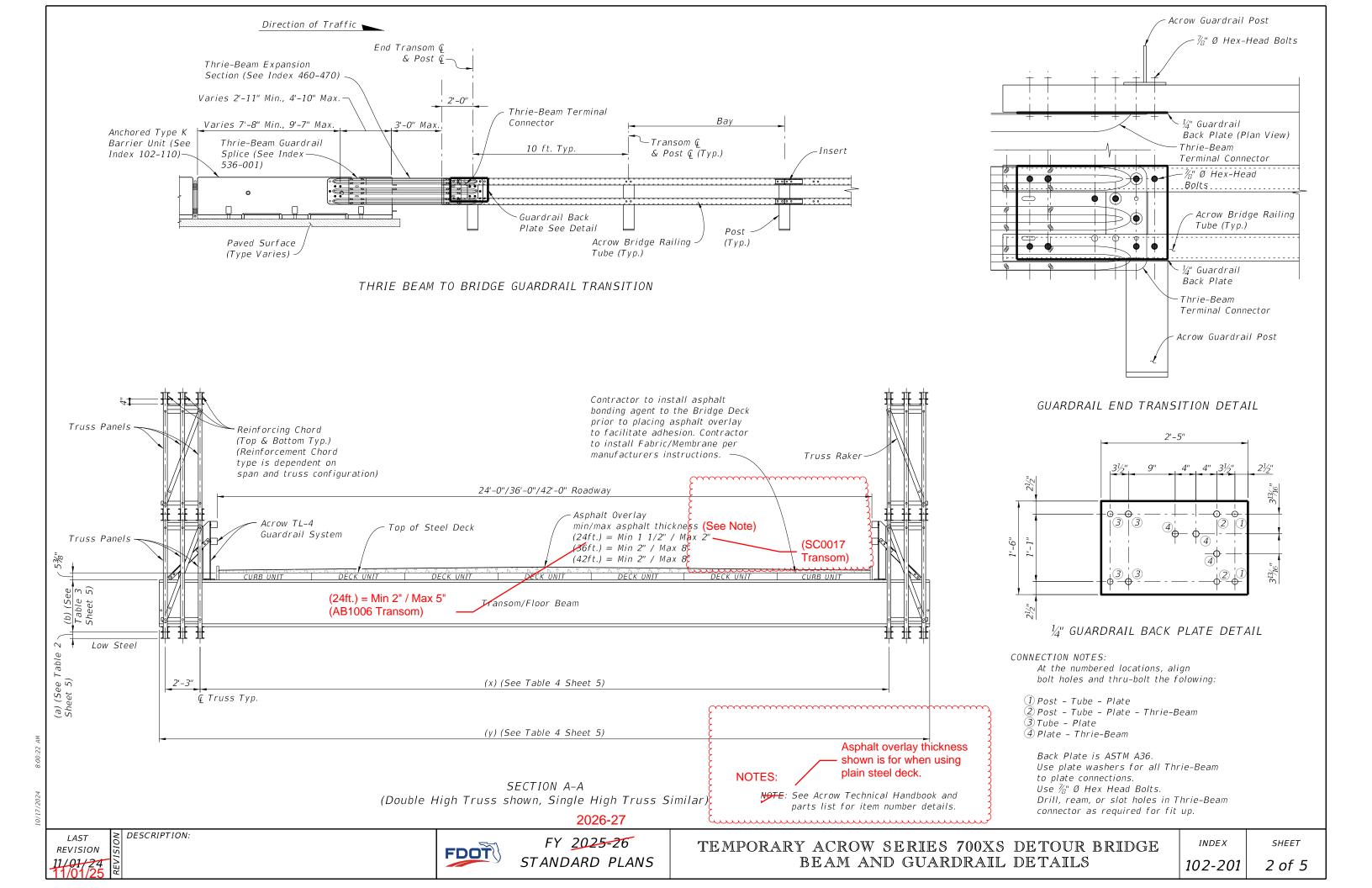
TRUSS CONFIGURATION

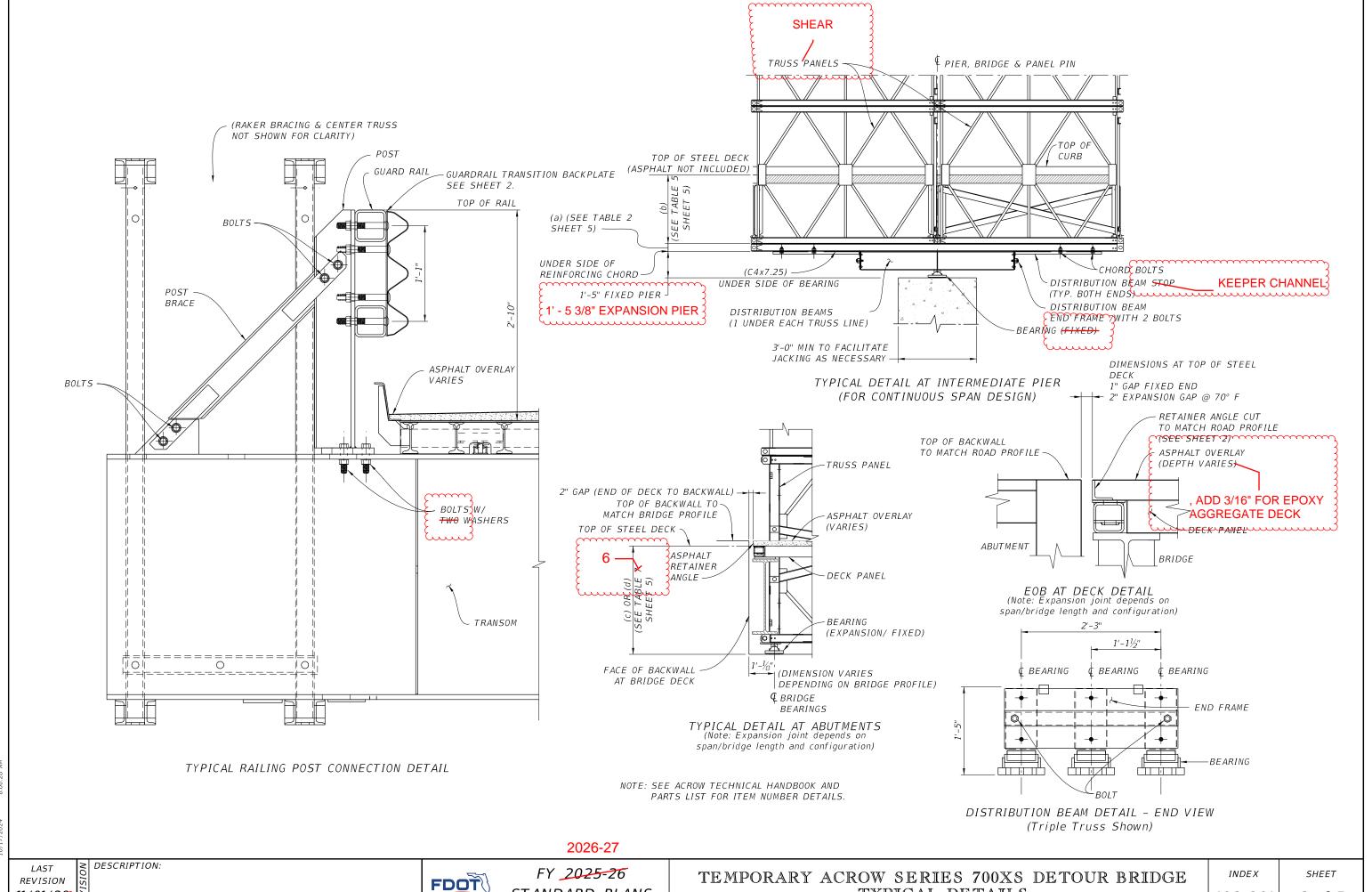
width of bridge)

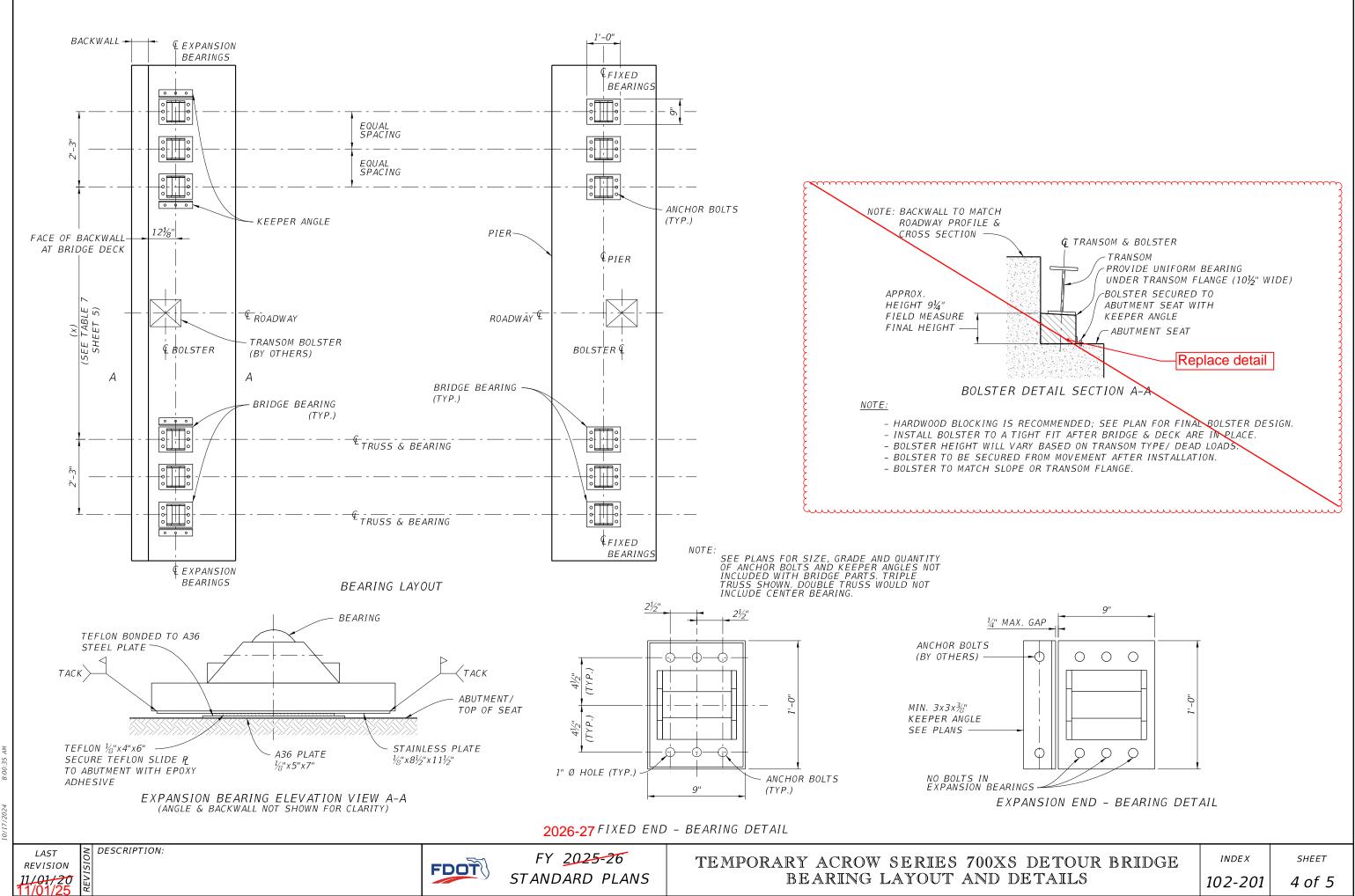
T-BOLT (4 PER DECK UNIT)

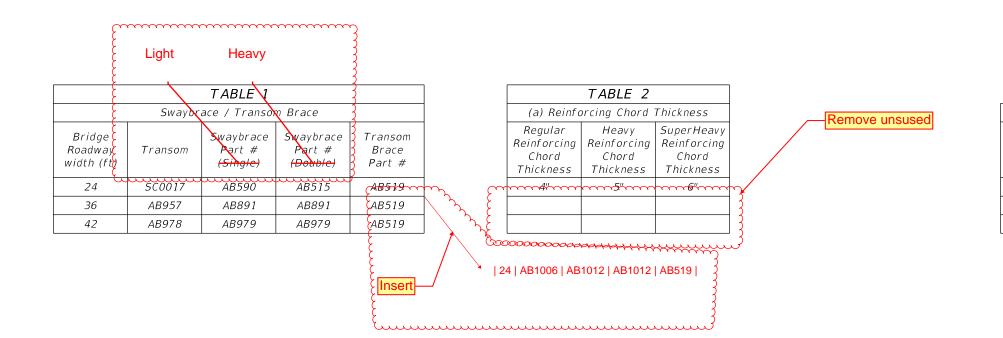
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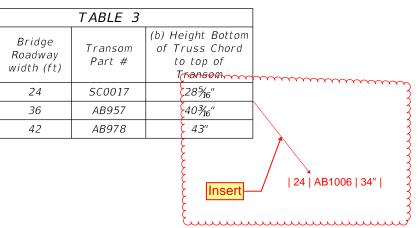
(AT TOP)











Bridge Roadway width (ft)	Transom Part #	(x) • to inner truss to • inner truss	(y) Transom Beam Length	
24	SC0017 C	Marallan	<u> </u>	mmmmy
36	AB957 E	38'-4 ¹³ / ₁₆ "	43'-7 ¹³ / ₁₆ "	3
42	AB978	44'-43/8"	49'-7 <i>%</i> "] \
		Insert	24 AB10	006 26' - 1" 31' - 4"

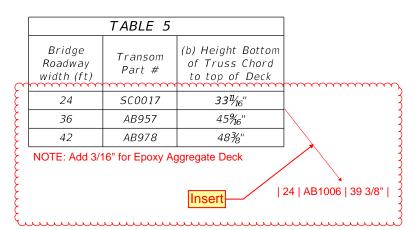


			TABLE 6		
\sim	Bridge Roadway width (ft)	Transom Part #	(c) Height Bottom of fixed bearing to top of Deck	(d) Height Bottom of expansion bearing to top of Deck	···········
ځ	24	SC0017	391/16"	397/6"	3
ع	36	AB957	50 ¹⁵ / ₁₆ "	51 ⁵ / ₁₆ "	}
٤	42	AB978	53¾"	54½"	3
, manual de la companya de la compan	NOTE: Add 3/1	6" for Epoxy Ag	gregate Deck	Insert 2	24 AB1006 44 3/4" 45 1/8"

	TABLE 7		
Bridge Roadway width (ft)	Transom Part #	(x) Q to inner truss to Q inner truss	
24	SC0017	26'-1"]
36	AB 9 57	38'-4 ¹³ / ₁₆ "	}
42	AB ∮ 78	44'-4 % "] \
	Inse	ert 12	24 AB1006 26' - 1"

2026-27

REVISION 11/01/20 11/01/25 DESCRIPTION:

FDOT

Work this Index with Index 102-210, 102-220 and 102-230.

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DISTRIBUTION BEAMS:

Distribution beam keeper channels restraining the distribution beams may be lengthened or shortened to center the distributing beam bearing on the cap beam. The ends of the keeper channels are to bear on the distributing beam end frame.

EXPANSION JOINT SETTINGS:

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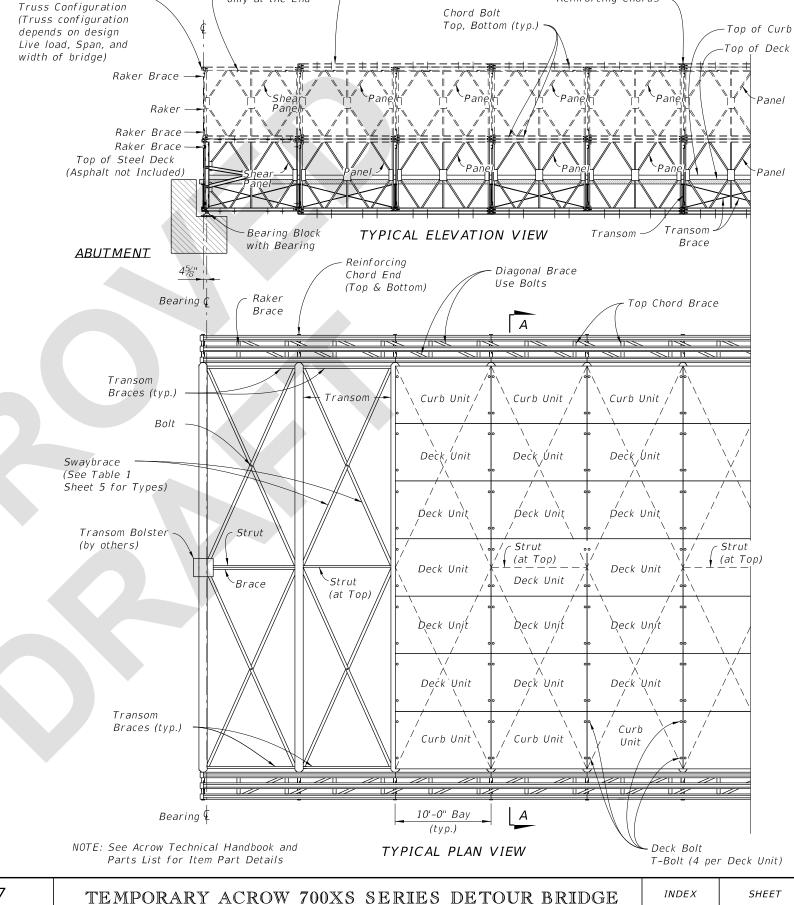
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Reinforcing Chord 20'-0" Top & Bottom (typ.)

Use Chord Bolts

Raker Brace

only at the End

Optional Double High

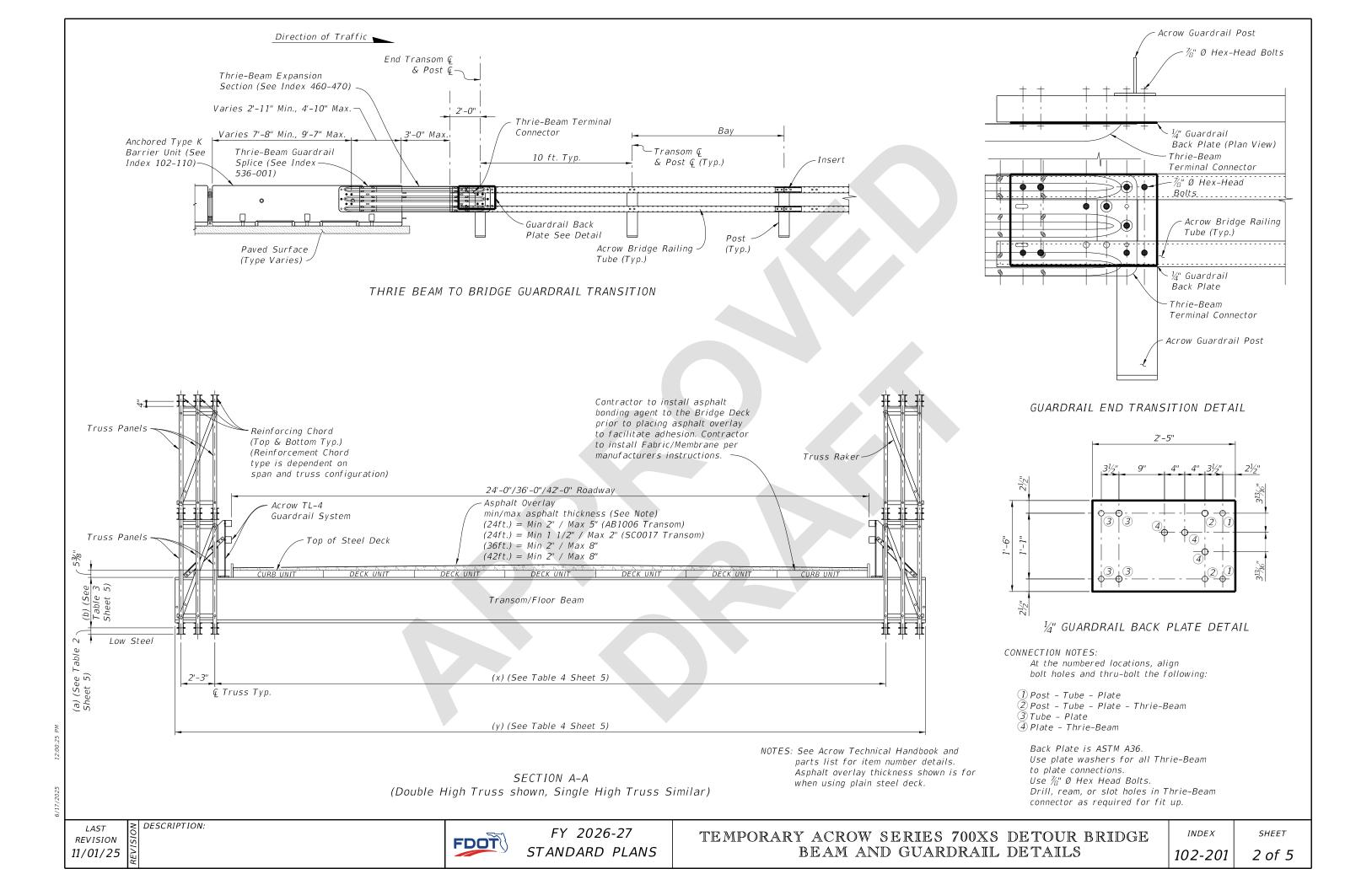
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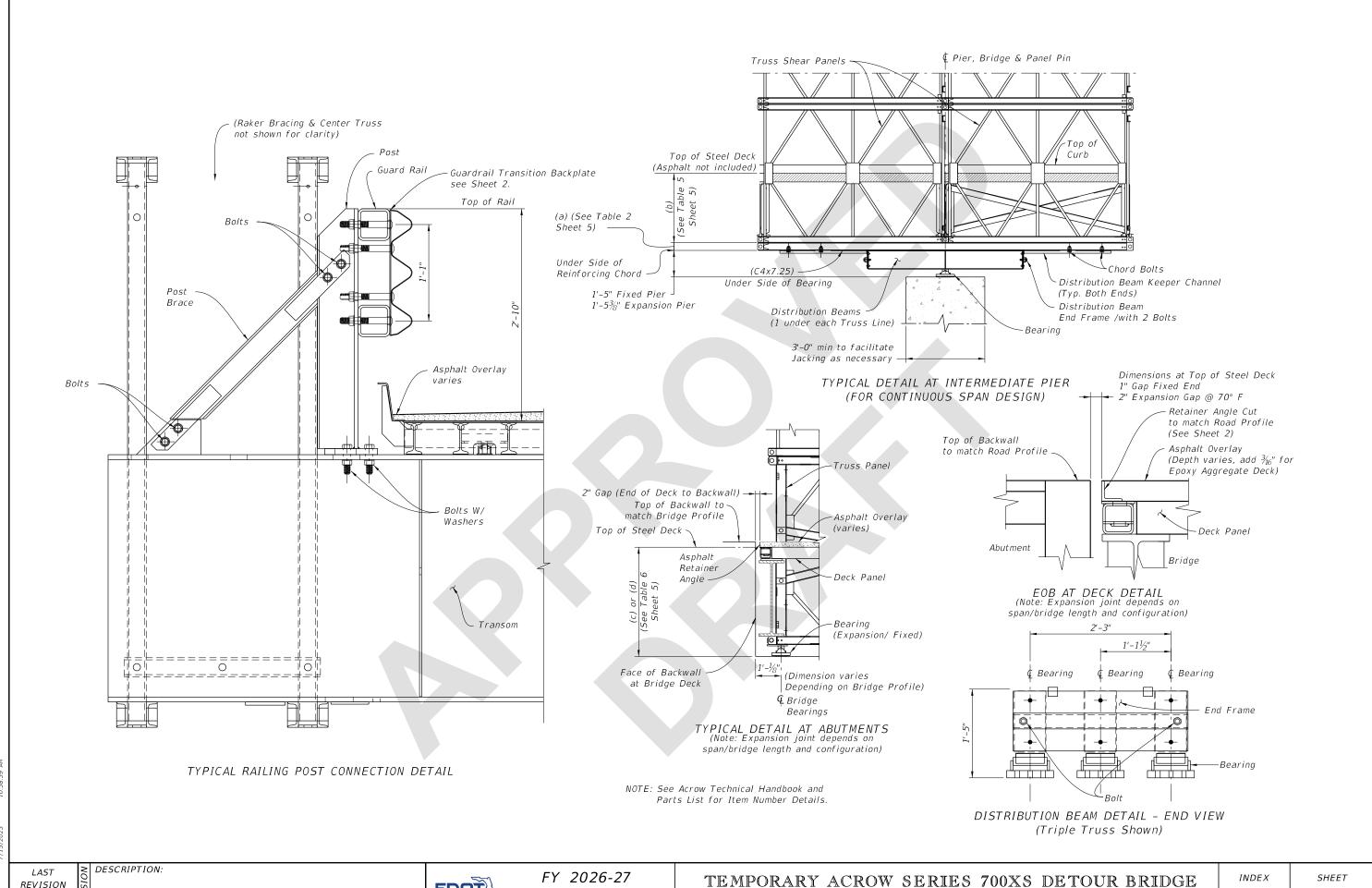
Reinforcing Chords -

LAST REVISION 11/01/25



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REVISION 11/01/25

FDOT

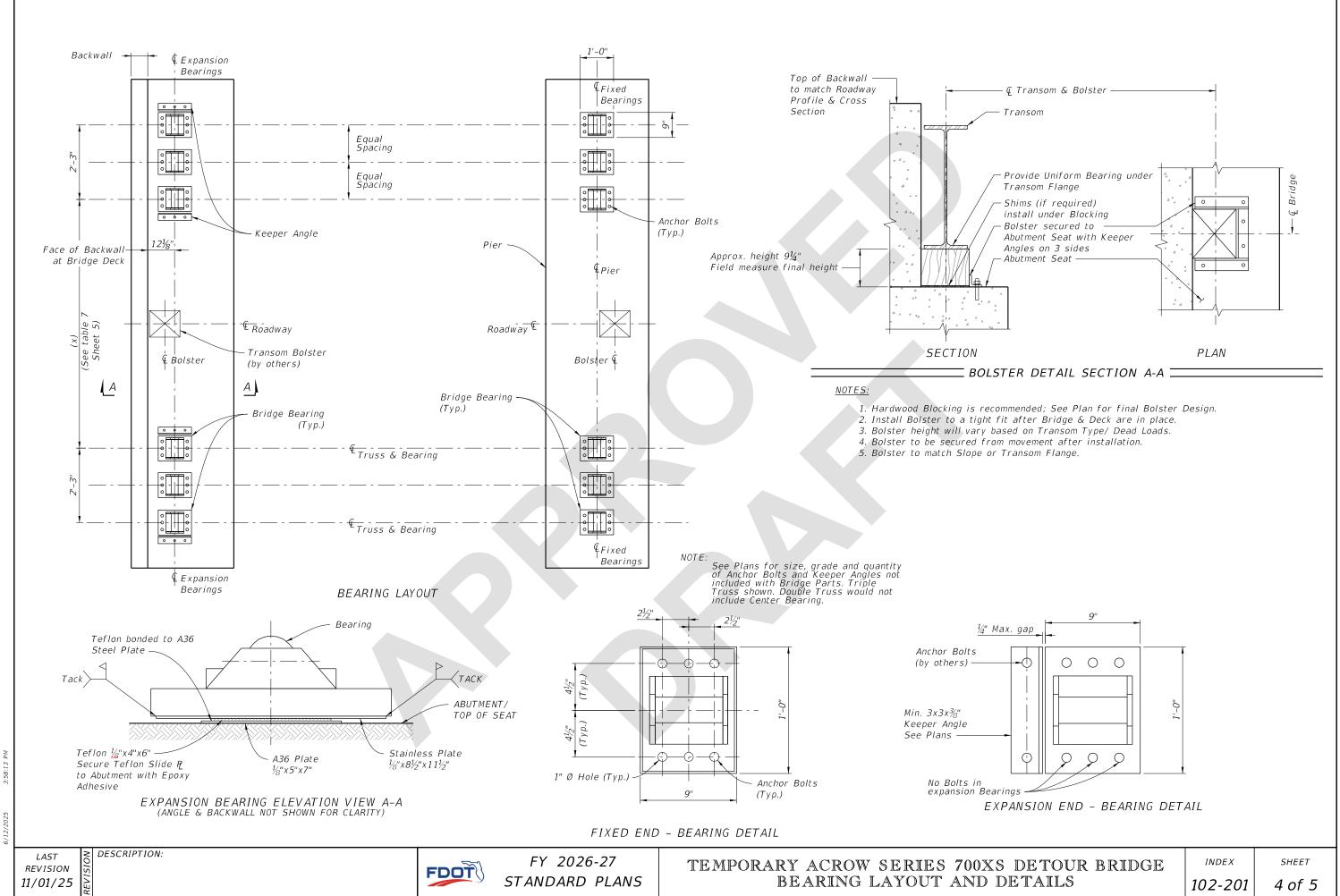


TABLE 1				
	Swaybr	ace / Transoi	m <i>Brace</i>	
Bridge Roadway width (ft)	Transom	Swaybrace Part # (Light)	Swaybrace Part # (Heavy)	Transom Brace Part #
24	SC0017	AB590	AB515	AB519
24	AB1006	AB1012	AB1012	AB519
36	AB957	AB891	AB891	AB519
42	AB978	AB979	AB979	AB519

TABLE 2					
(a) Reinfo	(a) Reinforcing Chord Thickness				
Regular Reinforcing Chord Thickness	Heavy Reinforcing Chord Thickness	Super Heavy Reinforcing Chord Thickness			
4"	5"	6"			

TABLE 3				
Bridge Roadway width (ft)	Transom Part #	(b) Height Bottom of Truss Chord to top of Transom		
24	SC0017	285⁄ ₁₆ "		
24	AB1006	34"		
36	AB957	40¾ ₆ "		
42	AB978	43"		

TABLE 4				
Bridge Roadway width (ft)	Transom Part #	(x) • to inner truss to • inner truss	(y) Transom Beam Length	
24	SC0017	26'-1"	31'-4"	
24	AB1006	26'-1"	31'-4"	
36	AB957	38'-4 ¹³ / ₁₆ "	43'-7 ¹³ / ₁₆ "	
42	AB978	44'-43%"	49'-7 <i>%</i> "	

	TABLE 5	
Bridge Roadway width (ft)	Transom Part #	(b) Height Bottom of Truss Chord to top of Deck
24	SC0017	33 ¹ / ₁₆ "
24	AB1006	39 ³ / ₈ "
36	AB957	45% ₆ "
42	AB978	48 3 %"

NOTE: Add 3/16" for Epoxy Aggregate Deck

	TABLE 6				
Bridge Roadway width (ft)	Transom Part #	(c) Height Bottom of fixed bearing to top of Deck	(d) Height Bottom of expansion bearing to top of Deck		
24	SC0017	39½ _{16"}	39‰"		
24	AB1006	44 ³ / ₄ "	45½"		
36	AB957	50 ¹⁵ ⁄16"	<i>515</i> / ₁₆ "		
42	AB978	53¾"	54½"		

NOTE: Add $\frac{3}{16}$ " for Epoxy Aggregate Deck

Bridge Roadway width (ft)	Transom Part #	(x) • to inner truss to • truss
24	SC0017	26'-1"
24	AB1006	26'-1"
36	AB957	38'-4 ¹³ / ₁₆ "
42	AB978	44'-4 3 %''

≥ DESCRIPTION: