## GENERAL NOTES:

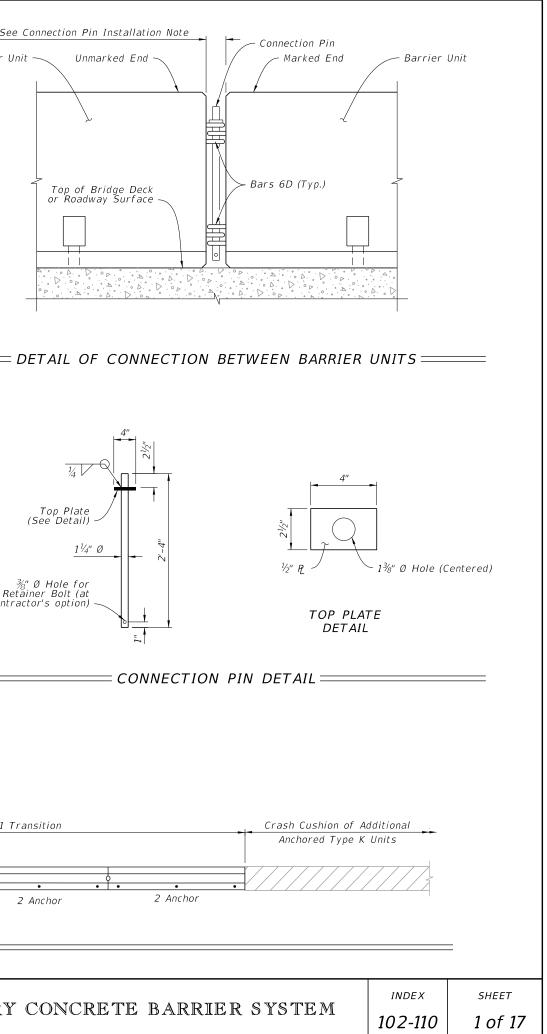
1. Meet the requirements of Index 102-100.

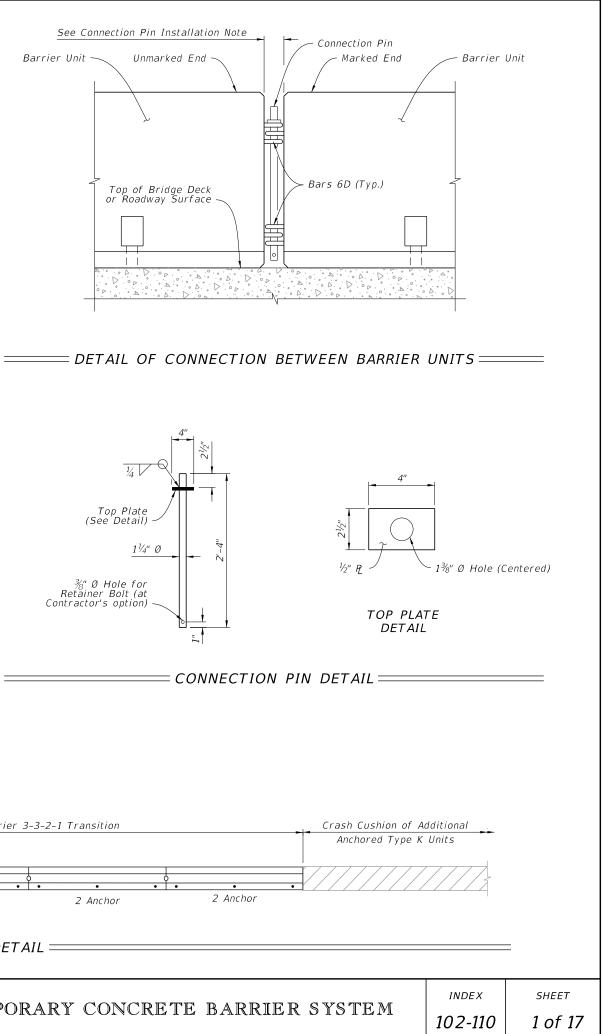
2. For fabrication details see Sheets 15 thru 17.

- 3. HANDLING: Do not lift or move the Barrier Units by using Bars 6D that extend from the ends of the units. Approximate weight of one unit equals 2.7 tons.
- 4. <u>CONNECTION PIN ASSEMBLY</u>: Use steel for Connection Pin and Top Plate assemblies in accordance with ASTM A36 or ASTM A709 Grade 36. Nondestructive testing of welds is not required. At the Contractor's option, a  $\frac{3}{3}$ " diameter hole may be provided at the bottom of the Connection Pin, as shown, for the installation of a vandal resistance bolt.
- 5. CONNECTION PIN INSTALLATION: Initially set Barrier Units by using a 3%" wooden block between ends of adjacent units. Install Connection Pin between adjacent Barrier Units as shown, then pull newly placed Barrier Unit away from adjacent Barrier Unit to remove slack between Connection Pin and Bars 6D (except as shown on Sheet 2). Do not use Barrier Units unconnected.
- 6. REUSE OF CONNECTION PINS AND STAKES: Connection pins and stakes may be reused if they have the structural integrity of new pins.
- 7. REMOVAL OF BOLTS, STAKES AND KEEPER PINS: Upon removal or relocation of Barrier Units, remove all Anchor Bolts and completely fill the remaining holes in bridge decks, approach slabs and roadway rigid pavements that are to remain with Magnesium Ammonium Phosphate Concrete in accordance with Specification 930 or with an Epoxy Resin Compound, Type F or Q, in accordance with Specification 926. If a flexible pavement is present and is to remain, completely fill the remaining holes in the flexible pavement with hot or cold patch asphalt material.
- 8. TYPE K ANCHORED TO FREE-STANDING TRANSITIONS: Use the 3-3-2-1 Anchorage Transition Detail when transitioning Free-Standing and Anchored Units or when connecting Free-Standing runs to Crash Cushions, as shown in this Index.

## THRIE-BEAM GUARDRAIL SPLICE INSTALLATION NOTES:

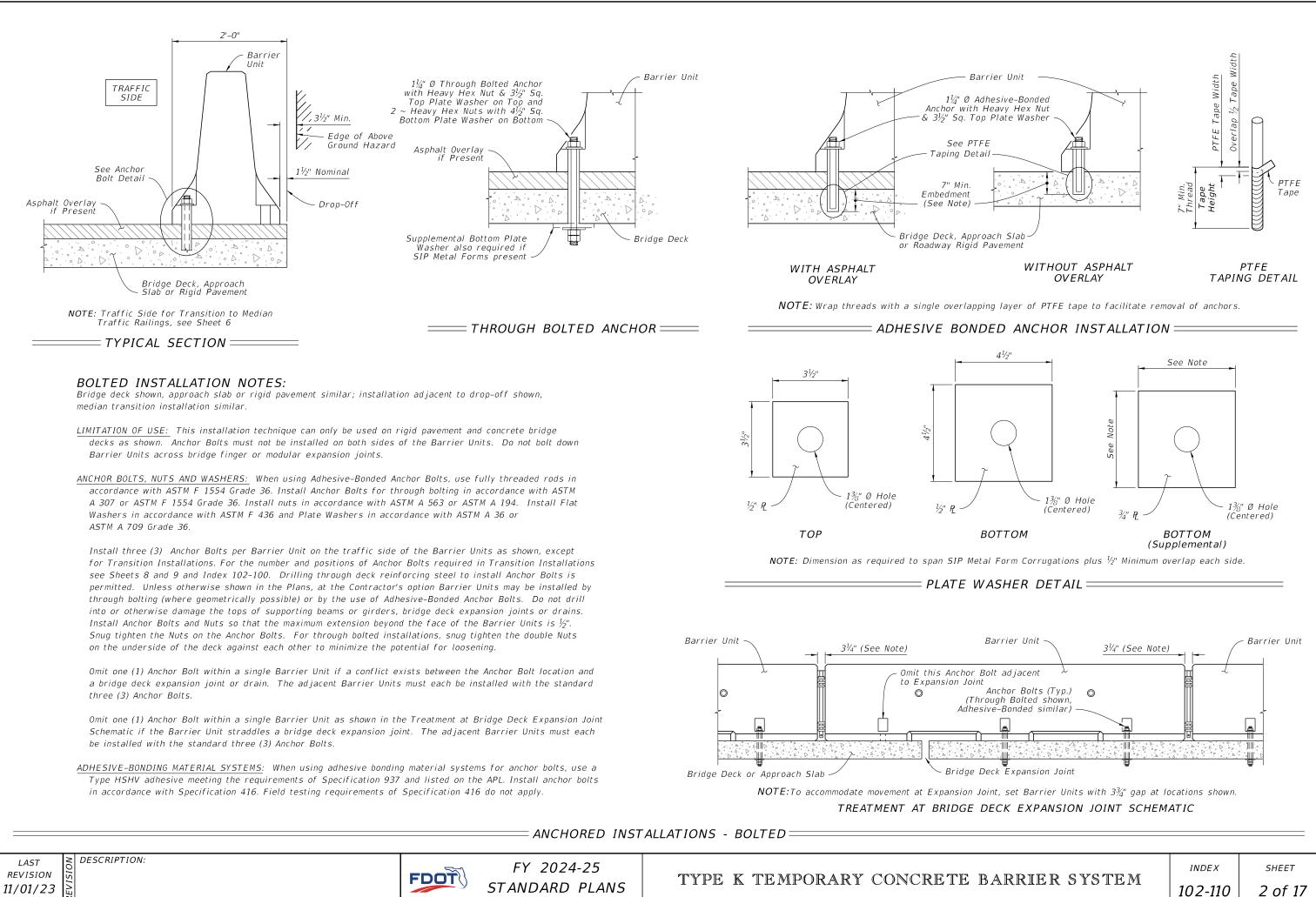
- 1. THRIE-BEAM GUARDRAIL: Provide Thrie-Beam Guardrail for splices meeting the requirements of specification 967 and as follows: Two panels per splice (One panel per side) of Class B (10 Gauge), or Four panels per splice (Two nested panels per side) of Class A (12 Gauge). Use a 12'-6" guardrail panel. Provide and install all other associated metallic guardrail components (Terminal Connectors, Shoulder Bolts, Hex Bolts and Nuts, Filler Plates, etc.) in accordance with Index 536-001. Install five Guardrail Anchor Bolts at each end of each splice in any of the standard seven anchor bolt holes in the Thrie-Beam Terminal Connector. If reinforcing steel is encountered when drilling holes for Guardrail Anchor Bolts in Type K Barrier Units, shift Thrie-Beam Terminal Connector so as to clear reinforcing steel within the given tolerances or select a different bolt hole to use. Do not drill or cut through reinforcing steel within Type K Barrier Units. Drilling or cutting through reinforcing steel within permanent concrete traffic railings is permitted.
- 2. GUARDRAIL OFFSET BLOCKS: Provide and install timber Offset Blocks meeting the requirements of Specification 967. Field trim Offset Blocks as required for proper fit. Utilize Offset Blocks as shown and required in order to prevent bending or kinking of Thrie-Beam Guardrail panels.
- 3. CONCRETE FOR FILLING TAPERED TRAFFIC RAILING TOES: Provide concrete for filling tapered toes of Traffic Railings as shown meeting the material requirements of Specification 346, any Class, or a commercially available pre-bagged concrete mix (3000 psi minimum compressive strength). Sampling, testing, evaluation and certification of the concrete in accordance with Specification 346 is not required. Saturate with water the surfaces upon and against which the concrete fill will be placed prior to placing concrete. Place and finish concrete fill using forms or by hand methods to the general configurations shown so as to provide a smooth shape transition between the Type K Barrier and the adjacent traffic railing. A low slump is desirable if placing and finishing concrete by hand methods. Cure the concrete fill by application of a curing compound, or by covering with a wet tarp or burlap for a minimum of 24 hours. Completely remove the concrete fill upon relocation or removal of the Type K Temporary Concrete Barrier.

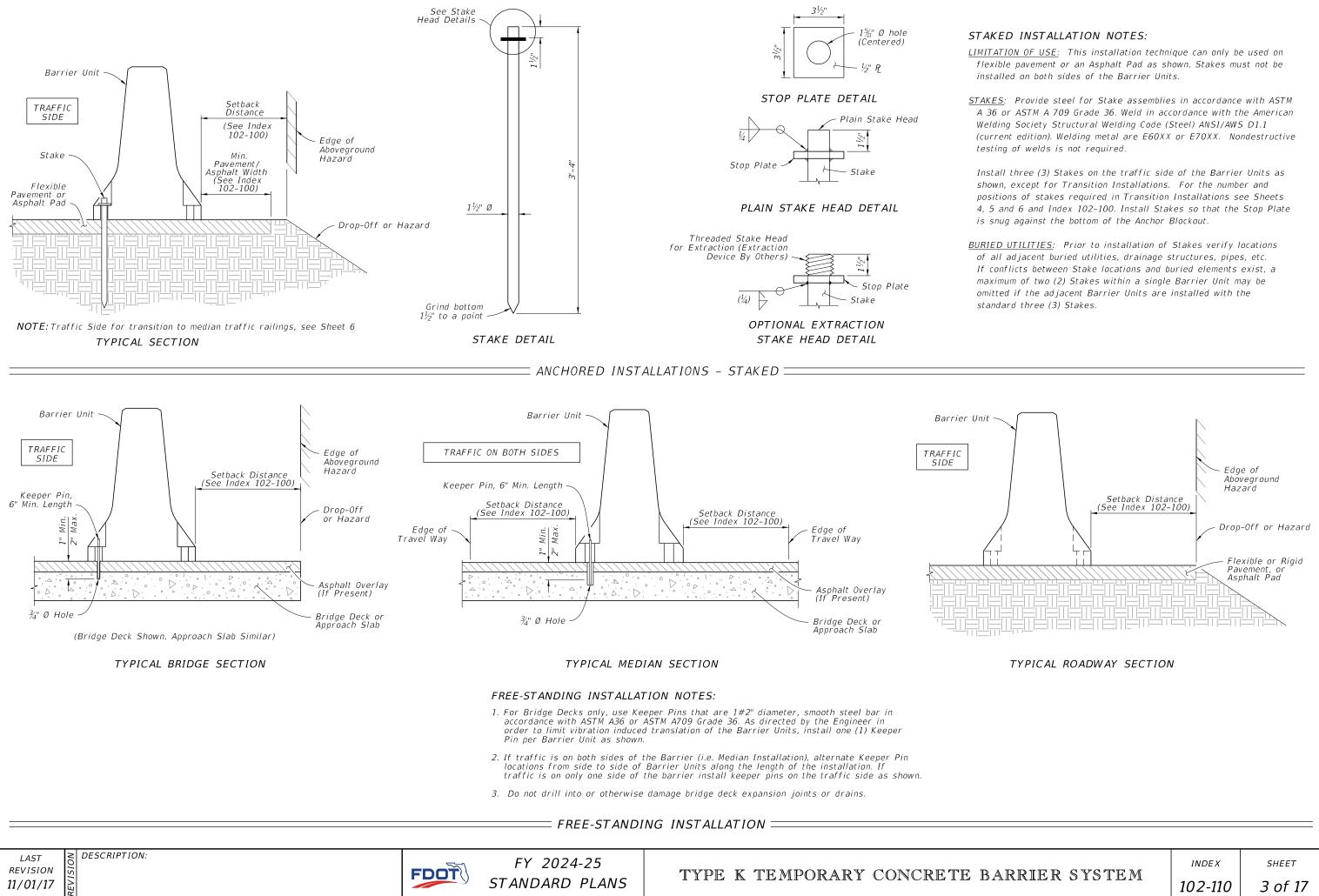


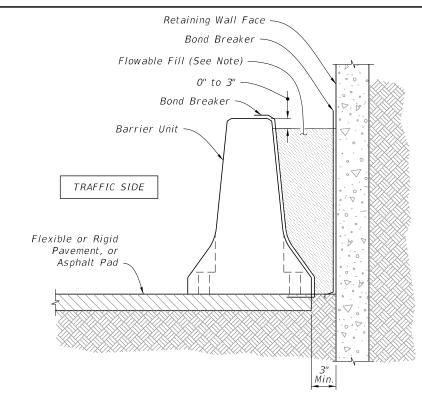


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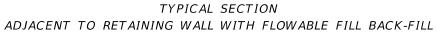
SYMBOL:		Free	-Standing Barrier	7	Гуре К Barrier 3-3-2-	1 Transition	
	Dot indicates number and position of Bolts or Stakes			Anchor 2 CHORAGE TRANSI	Anchor	2 Anchor	2
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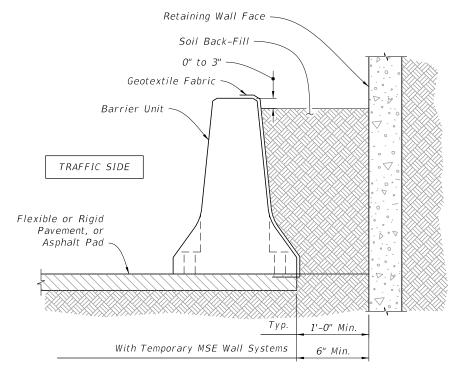


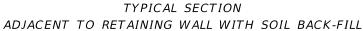


NOTE: Provide Excavatable Flowable Fill in accordance with Specification 121.



FLOWABLE FILL BACK-FILL ROADSIDE INSTALLATIONS

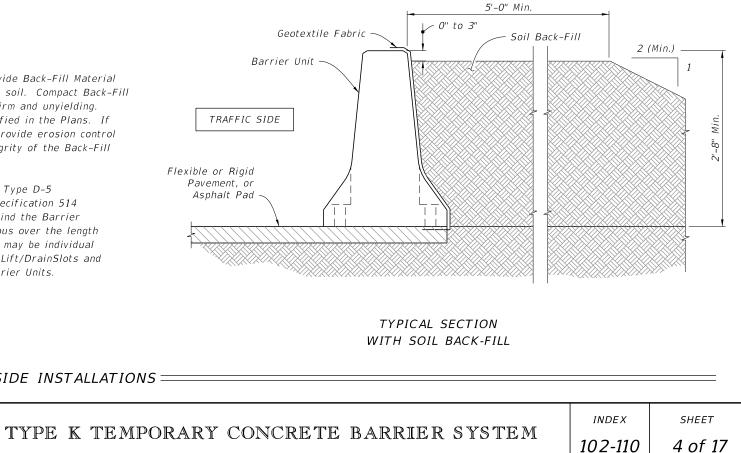




## NOTES:

SOIL BACK-FILL MATERIAL: Provide Back-Fill Material consisting of any available clean soil. Compact Back-Fill Material until the soil mass is firm and unyielding. Provide erosion control as specified in the Plans. If none is specified in the Plans, provide erosion control as required to maintain the integrity of the Back-Fill embankment.

GEOTEXTILE: Provide and install Type D-5 geotextile in accordance with Specification 514 to contain Back-Fill Material behind the Barrier Units. Geotextile may be continuous over the length and height of the installation or may be individual pieces as required to cover the Lift/DrainSlots and open vertical joints between Barrier Units.



SOIL BACK-FILLED ROADSIDE INSTALLATIONS

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DESCRIPTION:

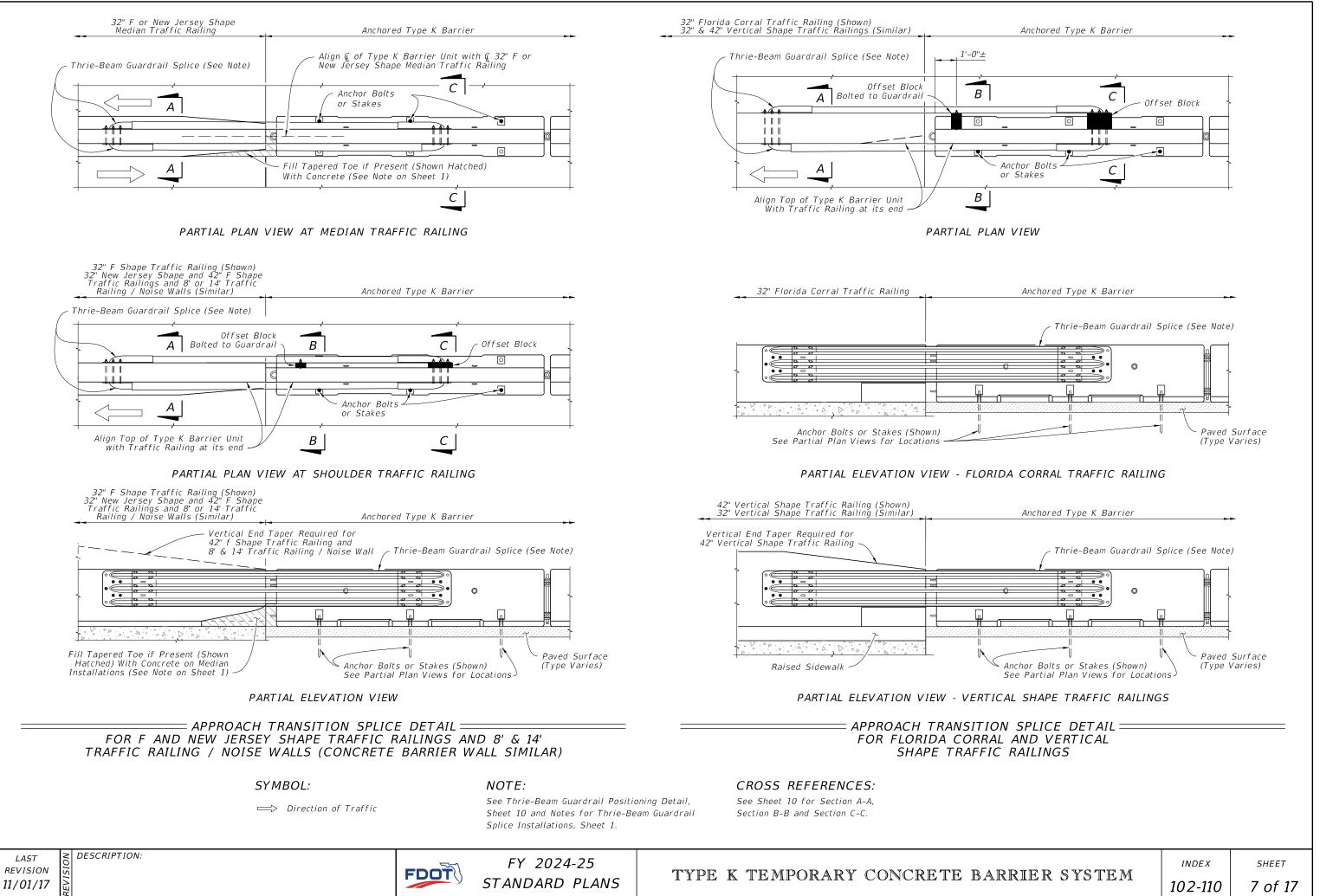


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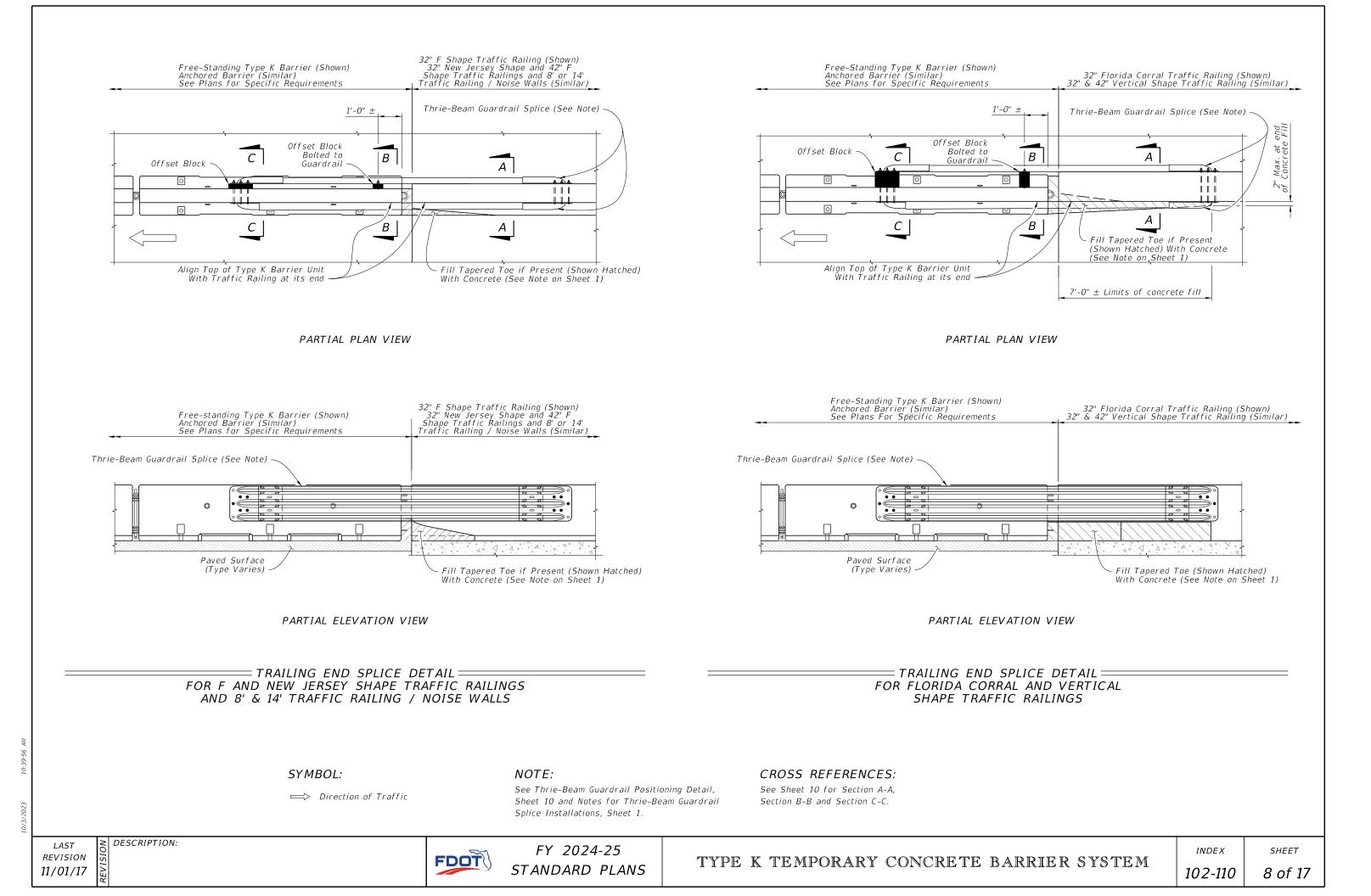


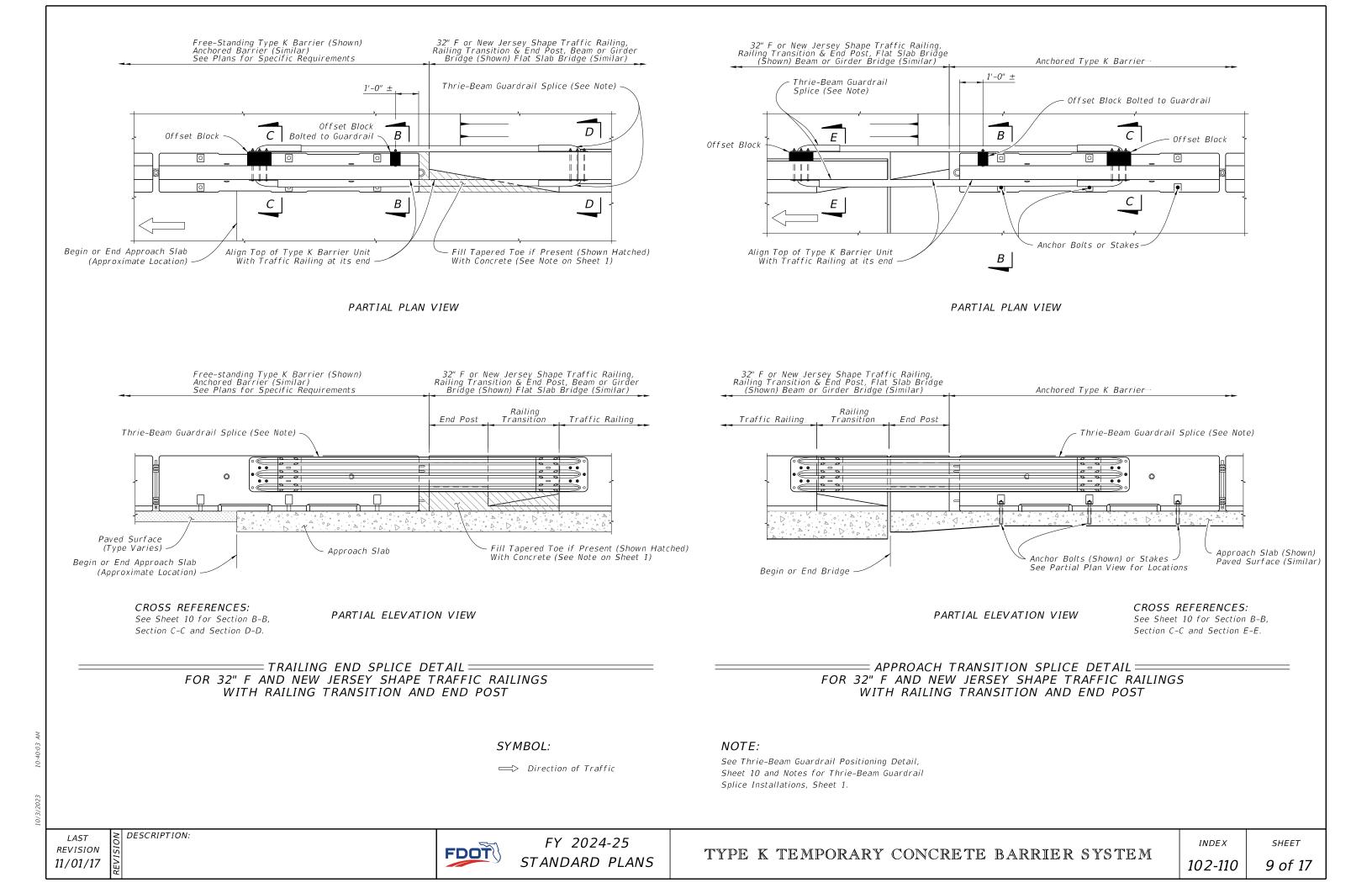
	(See Note)
	Edge of Travel Way
	Type K Barrier (Typ.) First Full Barrier Unit Before Drop-Off or Hazard Shielded by Anchored Barrier
See Index 102-100 for Dimensions —	
7 7 7 7 7 7 7 7 7 7 7	Drop-Off or Hazard
Free-Standing Barrier (13	3 Units Min.) Transition (4 Units) Anchored Barrier Transition (4 Units) (See Note) Free-Standing Barrier (13 Units Min.) (See Note)
	APPROACH TRANSITION FROM FREE-STANDING TO ANCHORED TYPE K TEMPORARY CONCRETE BARRIERS
	(See Note)
	Edge of Travel Way
	Type K Barrier (Typ.) First Full Barrier Unit Before Back-Filled Barrier
See Index 102-100 for Dimensions —	
	Back-Fill
Drop-Off or Hazard — Free-Standing Barrier (13 Uni	nits Min.) Transition (4 Units) Back-Filled Barrier Transition (4 Units) (See Note) Free-Standing Barrier (13 Units Min.)
	APPROACH TRANSITION FROM FREE-STANDING TO BACK-FILLED TYPE K TEMPORARY CONCRETE BARRIERS
	Edge of Travel Way
	Edge of Travel Way
	First Full Barrier Unit After Drop-Off or Hazard Shielded by Anchored Barrier Type K Barrier (Typ.)
	See Index 102-100 For Dimensions
	Anchored Barrier Free-Standing Barrier
	TRAILING END TRANSITION FROM ANCHORED TO FREE-STANDING TYPE K TEMPORARY CONCRETE BARRIERS
NOTE:	Edge of Travel Way 🥄
Where Barrier is located within Clear Zone of opposing traffic,	
Approach Transition is required.	
SYMBOLS:	
Dot indicates number and position of Bolts or Stakes	See Index 102-100 For Dimensions
·	Back-Fill / Drop-Off or Hazard
→ Direction of Traffic	Back-Filled Barrier
	TRAILING END TRANSITION FROM BACK-FILLED TO FREE-STANDING TYPE K TEMPORARY CONCRETE BARRIERS
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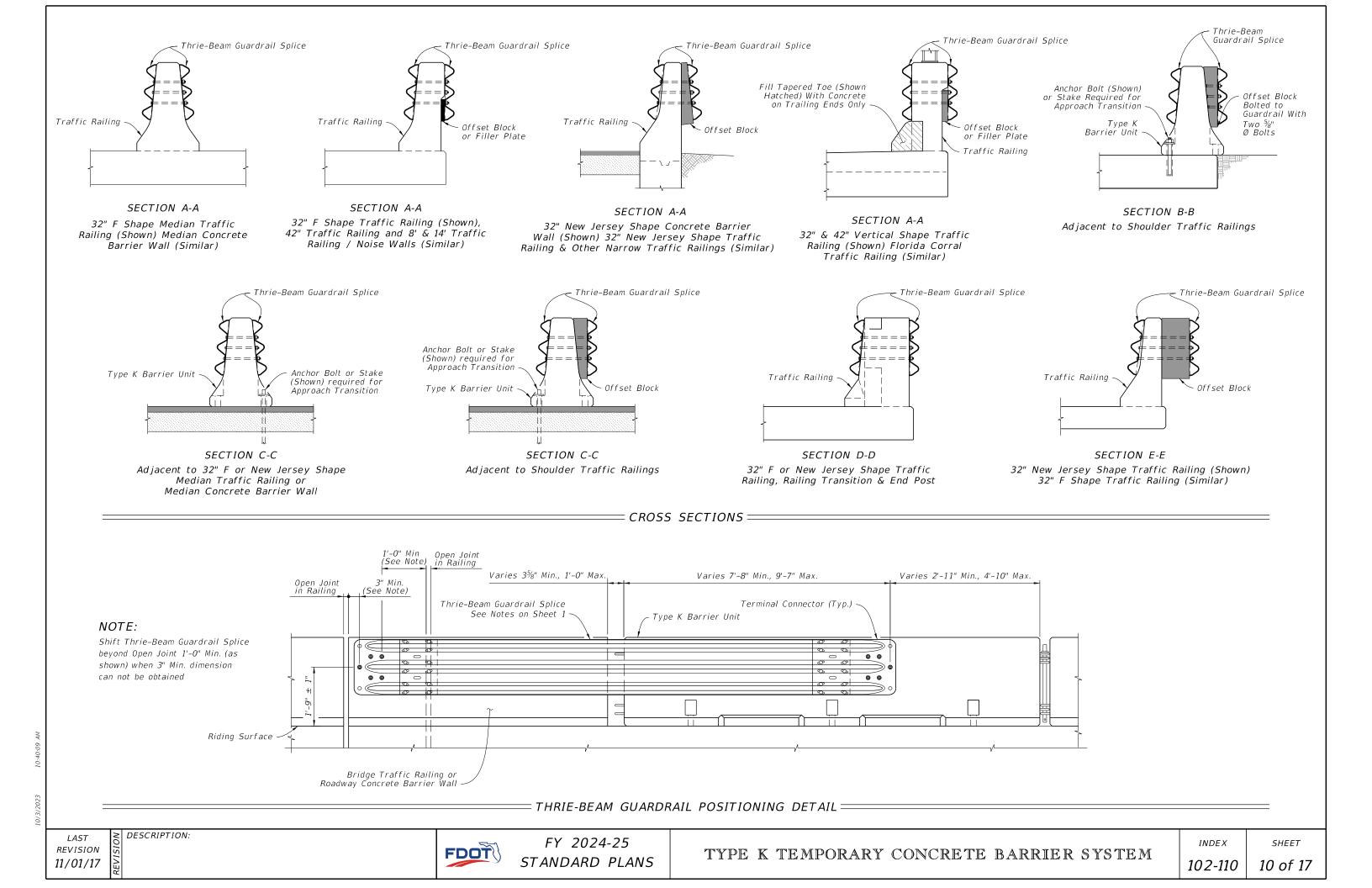
		Edge of Travel Way				
See Sheet 4	Type K Barrier (Typ.)	,		Thrie-Beam Guardrail Splice (Typ.)		
for Dimensions		See Approach Transition Splice Details Sheets 7 & 10 Brice	ge Median Traffic Railing (32" F Shape or Jersey Shape) or Roadway Concrete Median rier Wall (32" F Shape or New Jersey Shape)	See Approach Transition Splice Details Sheets 7, 9 & 10		
	Free-Standing Barrier (13 Units Min.)	Transition (4 Units) Bar	ier Wall (32" F Shape or New Jersey Shape)	Transition (4 Units) Free-Standing Barrier (13 Units	Min.)	
	1	Edge of Travel Way				
====== T F	RANSITION FROM FREE-STANDING TYPE K 1	EMPORARY CONCRETE BARRIERS	TO BRIDGE MEDIAN TRAFFIC RA	ILING OR ROADWAY MEDIAN CONCRETE BARRI	ER WALL	
			/(See Note)			
		Edge of Travel Way	See Approach Transition Splice			
-	Type K Barrier (Typ.) See Index 102-100 for Dimensions		Details Sheets 7, 9 & 10	Thrie-Beam Guardrail Splice (Typ.)		
		7 7 7 7 7 7 7 7 7 7	See Trailing End Splice Details Sheets 8 thru 10 (See Note)			
	Drop-Off or Hazard — Free-Standing Barrier (13 Units Min.)	Transition (4 Units)	Bridge Traffic Railing or Roadway Concrete Barrier Wall	Free-Standing Barrier (13 Units Min.) (See Note)		
	TRANSITION FROM FREE-STANDING	TYPE K TEMPORARY CONCRETE BA	ARRIERS TO BRIDGE TRAFFIC RA	ILING OR ROADWAY CONCRETE BARRIER WALL		
		- Edge of Travel Way	< 			
	Type K Barrier	(Typ.)	See Approach Transition Splice Details Sheets 7, 9 & 10	— Thrie-Beam Guardrail Splice (Typ.)		
2	See Index 102-100		See Trailing End Splice		<u> </u>	
,	Drop-Off or Hazard		Details Sheets 8 thru 10 (See Note) Bridge Traffic Railing or			
	Anchored Barrier	•	Bridge Traffic Railing or Roadway Concrete Barrier Wall	Anchored Barrier		
	TRANSITION FROM ANCHORED TY	PE K TEMPORARY CONCRETE BARF	RIERS TO BRIDGE TRAFFIC RAILI	NG OR ROADWAY CONCRETE BARRIER WALL $=$		
		<b>NOTE:</b> Where Barrier is located withi clear zone of opposing traffic				
		Approach Transition is require				
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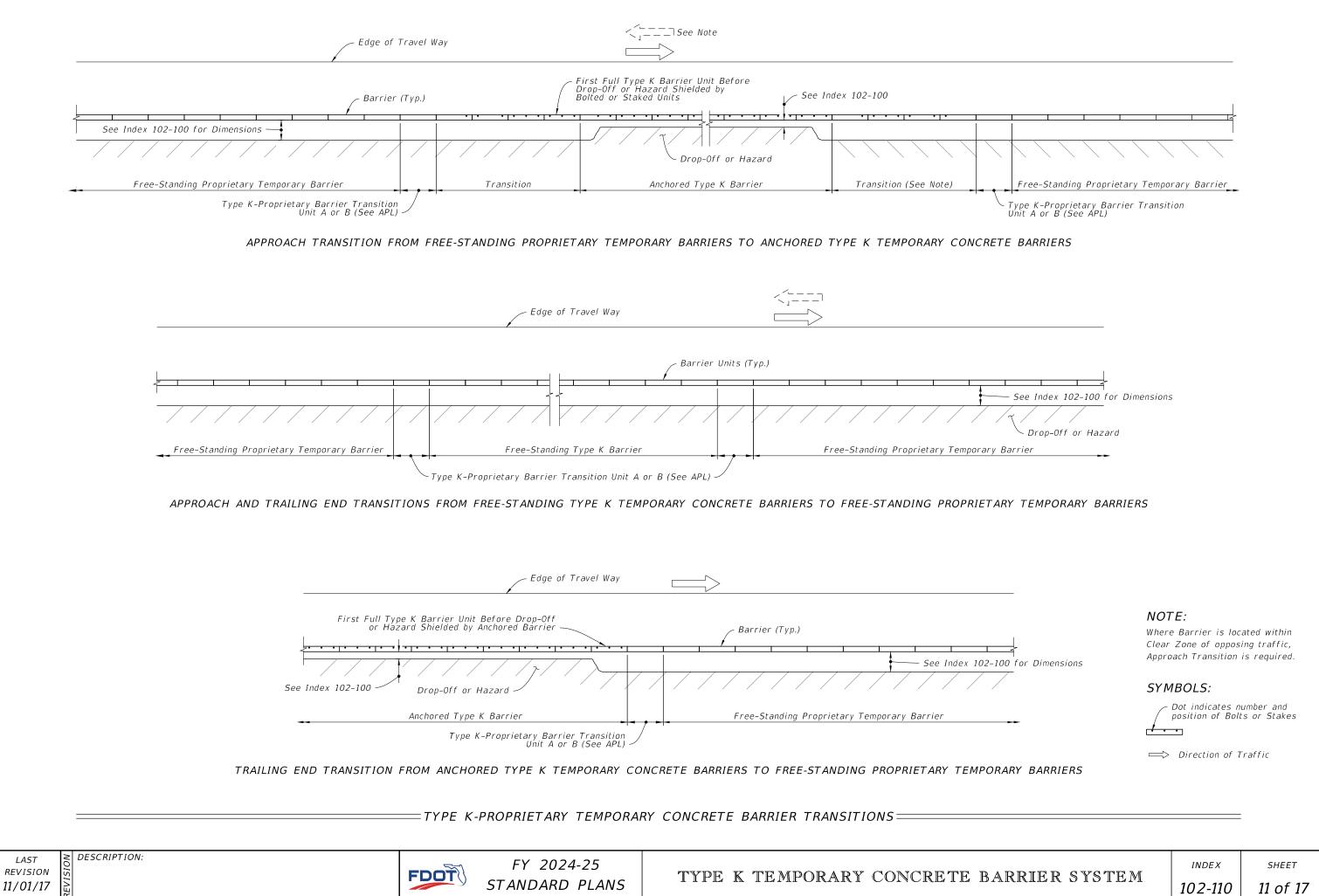


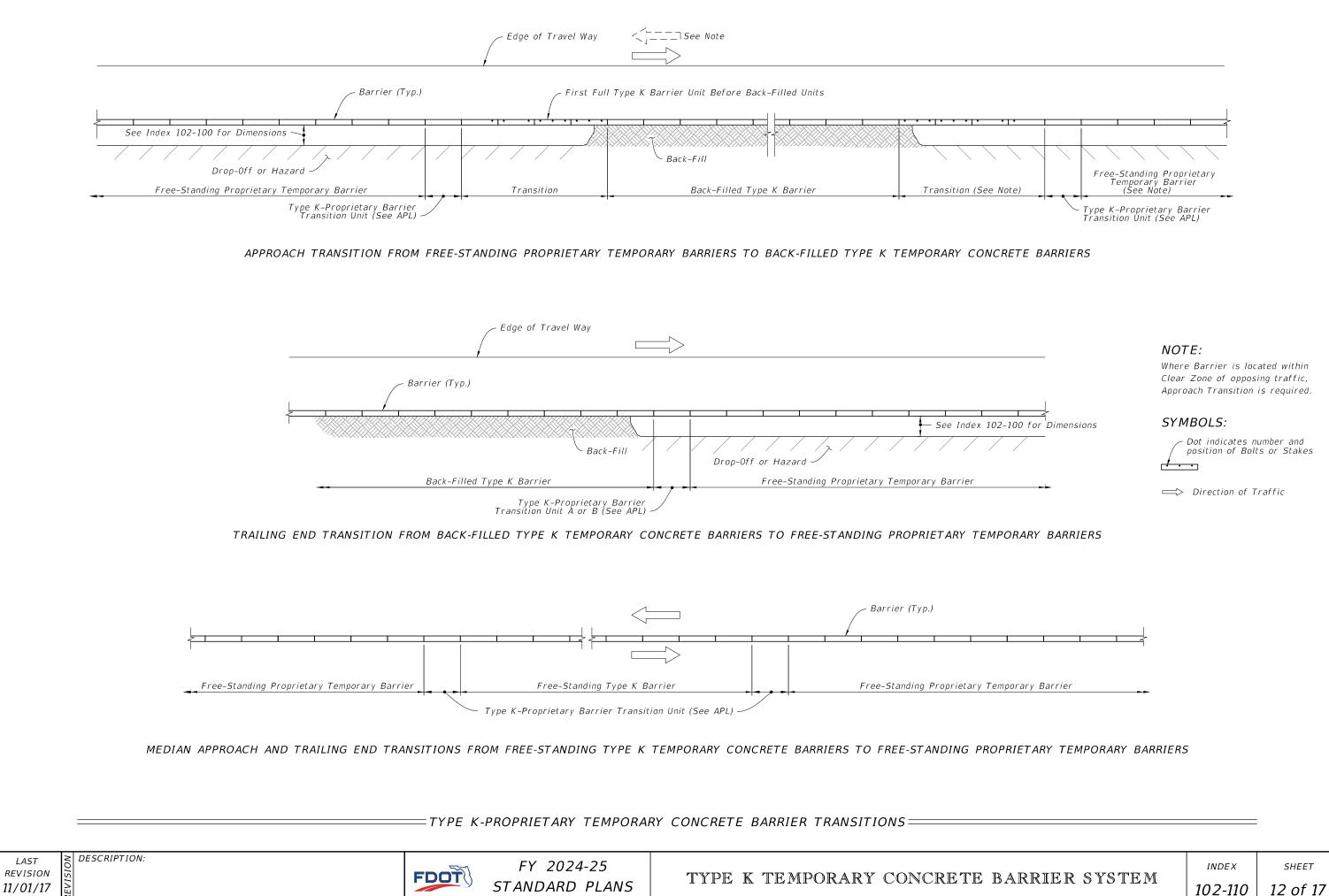
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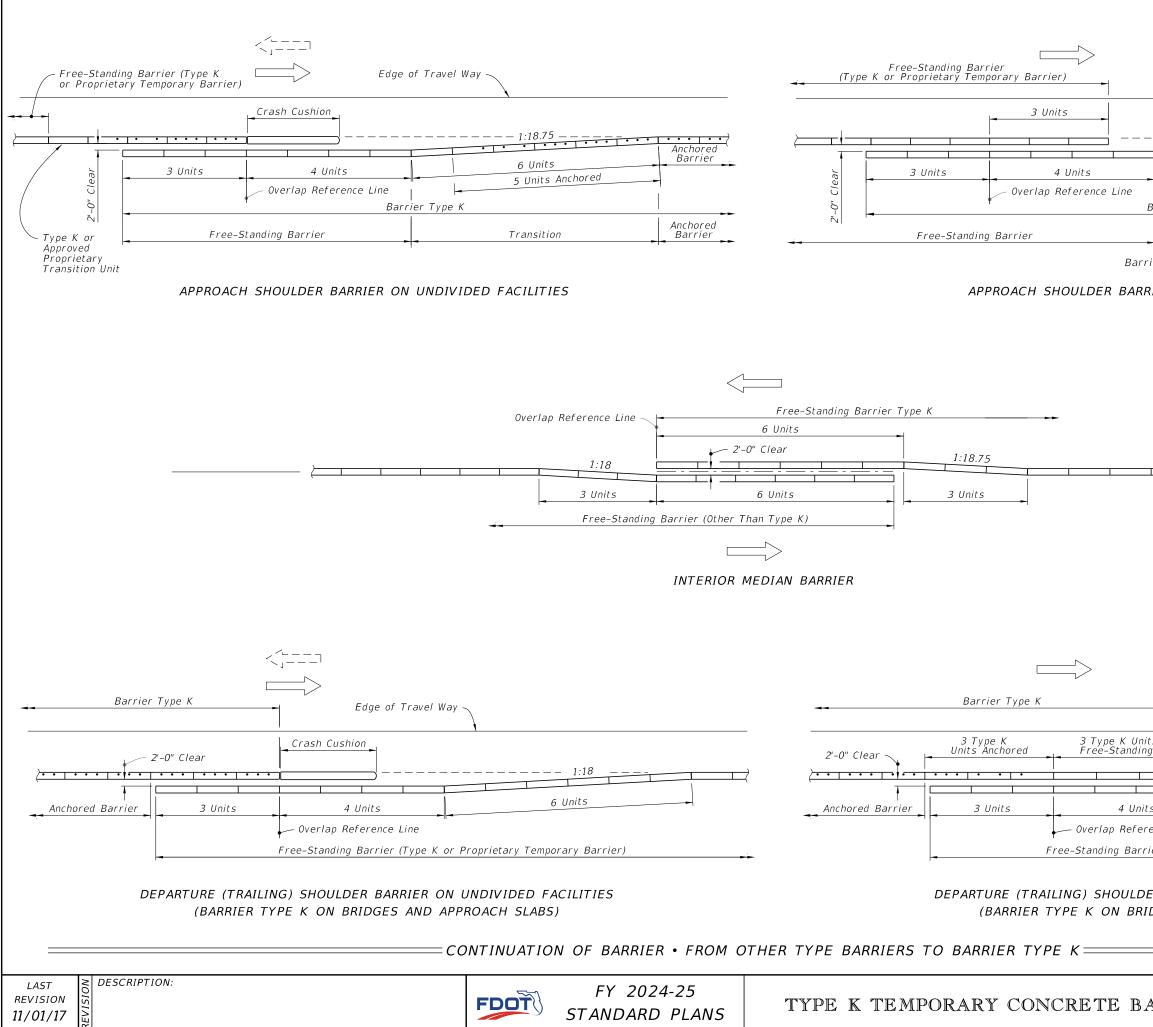




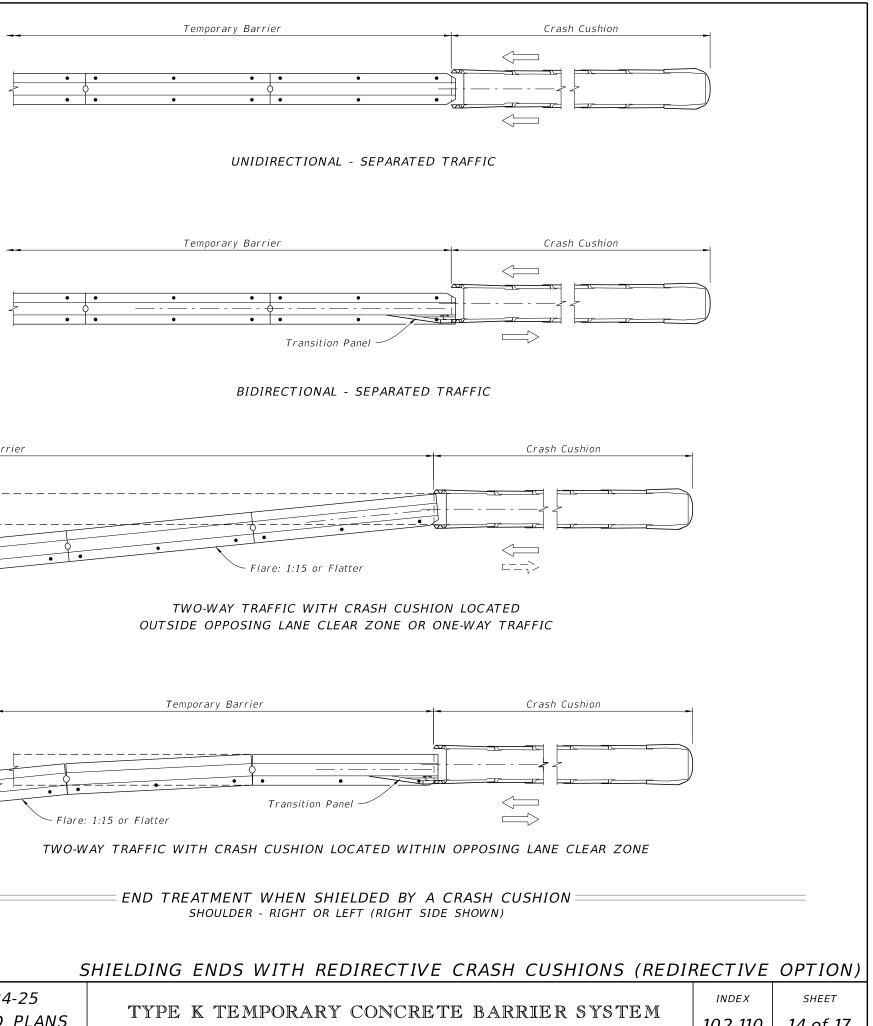


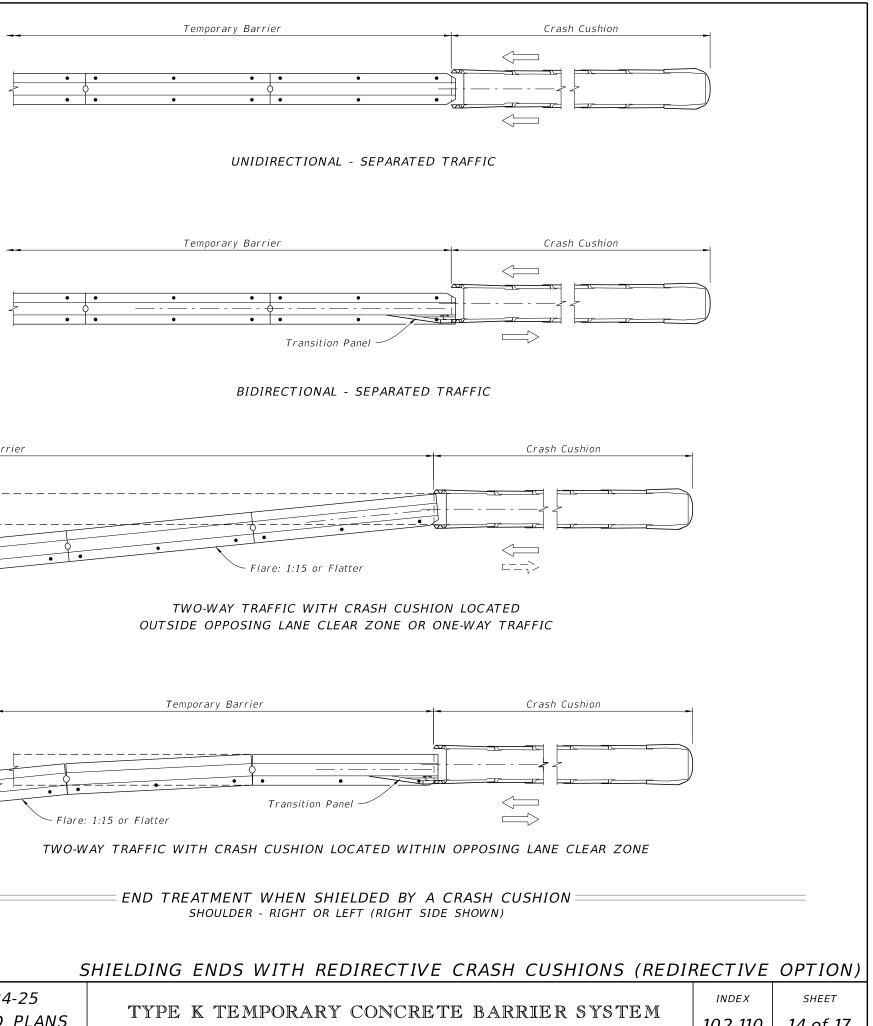
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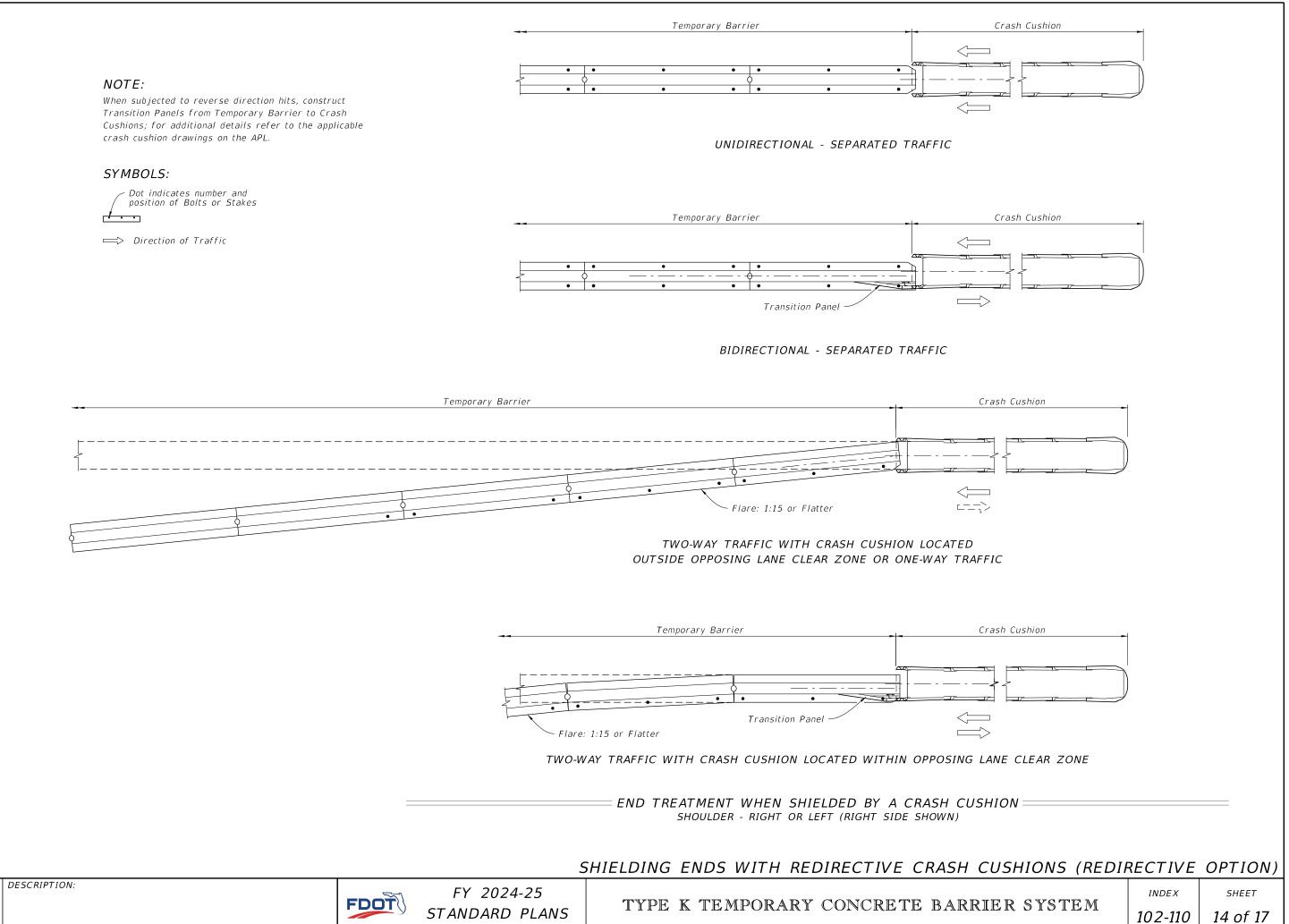
ARRIER	SYSTEM
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Edge of Travel Way				
	1			
		Anchored		
6 Units 5 Units Anchored		Barrier		
-				
Barrier Type K				
Transition		Anchored Barrier		
rier Type K	I			
RIER AN DIVIDED EACHITIES				
RIER ON DIVIDED FACILITIES				
	_			
SYMB	OLS:			
	indicates numi sition of Bolts o			
Direction of Traffic				
Edge of Travel Way				
its ng				
	1:18			
6 Units				
rence Line				
rier (Type K or Proprietary Temporary	Barrier)			
ER BARRIER ON DIVIDED FACILITIES				
IDGES AND APPROACH SLABS)				
	INDEX	SHEET		
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## FABRICATION NOTES:

In order to maintain crashworthiness of the Barrier System, do not substitute different grades, sizes, shapes or types of reinforcing steel for those shown for constructing Type K Barrier Units. Also, do not substitute different type, size, length or material grade anchor bolts, nuts, washers, adhesives, connector pins, stakes, keeper pins, or guardrail components for installing Type K Barrier Units.

### FABRICATOR PREQUALIFICATIONS:

- A. The Concrete Plant that meets the requirements;
- a. Specification 450 for prestressed concrete
- b. Specification 105 for precast.

### CONCRETE:

- A. Construct Barrier Units with Class IV concrete in accordance with Specification 346.
- B. Specification 346-10 is not applicable.
- C. Barrier Units represented by concrete acceptance strength tests which fall below 5000 psi will be rejected.

#### REINFORCING STEEL:

- A. Use only steel reinforcing that meet ASTM A 615, Grade 60, with the exception of Bars 6D1, 6D2 and 6D3.
- B. Bars 6D1, 6D2 and 6D3 use steel reinforcing that meets ASTM A 706, with the exception that a 2<sup>3</sup>/<sub>4</sub>" diameter pin must be used for the 180 degree bend test.
- C. After steel reinforcing fabrication, hot dip galvanized in accordance with Specification 962 or coated with a cold galvanizing compound in accordance with Specification 562, all or part of Bars 6D.
- D. At the Fabricator's option, the entire length of Bars 6D may be galvanized or coated.
- E. The minimum limit of galvanizing or coating is shown in the Bending Diagrams.
- F. Install Bars 6D within  $\frac{1}{8}$ " of the plan dimensions.
- G. Correct placement of Bars 6D is critical for proper fit up and performance of individual Barrier Units.
- H. At the option of the Fabricator, Deformed Welded Wire Fabric in accordance with Specification 931 and the details shown on Sheet 15 may be utilized in lieu of Bars 4A and 5B.
- I. All dimensions in the Bending Diagrams are out to out.
- J. Install all reinforcing steel with a 2" minimum cover, except as noted.

### LIFTING SLEEVE ASSEMBLY:

- A. Inclusion of the Lifting Sleeve Assemblies is optional.
- B. Use steel in accordance with ASTM A 53 for the Pipe Sleeve.
- C. Hot-dip galvanize the Lifting Sleeve Assemblies after their fabrication in accordance with the Specifications.

### SURFACE FINISH:

- A. Construct Barrier Units in accordance with Specifications 400 and 521.
- B. Finish the top and sides of the Barrier Units with a General Surface Finish.
- C. Finish the bottom of the Barrier Units to a dense uniform surface by floating in lieu of the General Surface Finish.
- D. Use stationary metal forms or stationary timber forms with a form liner.

### MARKING:

- A. Permanently mark the top left end of each Barrier Unit by the use of an embedded and anchored metallic plate with letters and figures a minimum of 0.5" tall.
- B. Ink stamps are not allowed.
- C. Permanently mark with the following information:
  - Туре К1
  - Fabricator's name or symbol
  - Date of manufacture (day, month and year)

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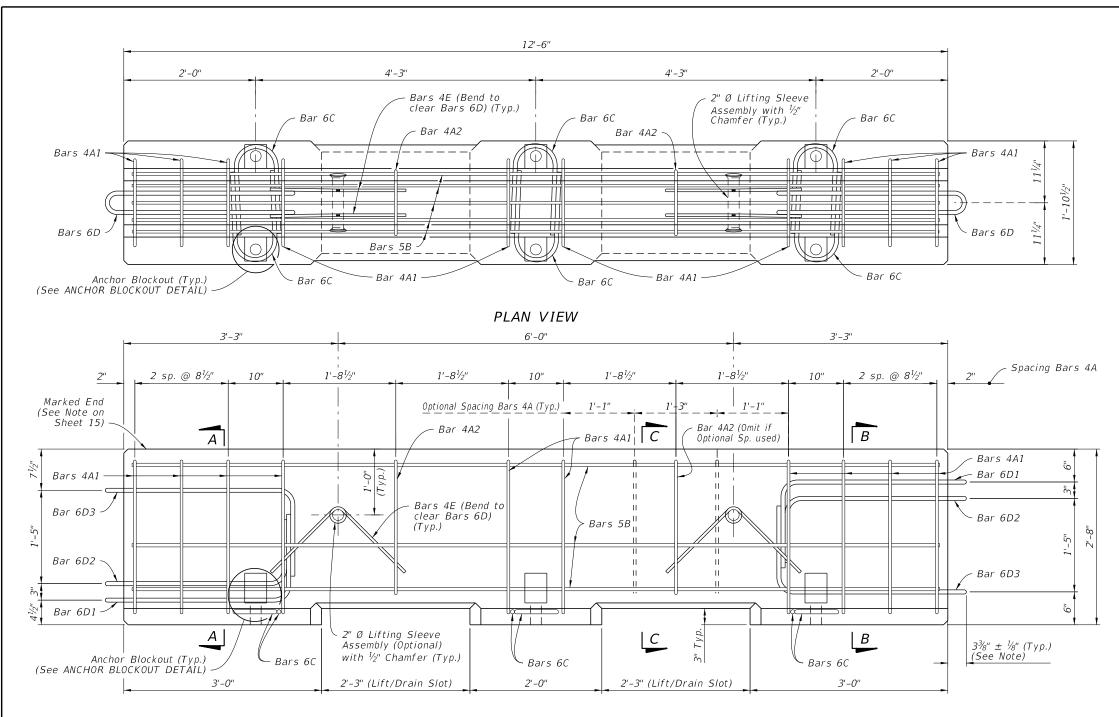
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TYPE K TEMPORARY CONCRETE B.

ARRIER SYSTEM	INDEX	SHEET
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# NOTE:

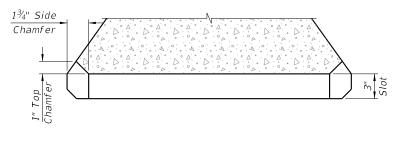
Measured for end to barrier unit to outside edge of Bars 6D.

ELEVATION VIEW

ESTIMATED TEMPORARY CONCRETE BARRIER QUANTITIES				
ITEM UNIT QUANTITY				
Concrete	СҮ	1.29		
Reinforcing Steel	LB	218		

The above quantities are for one Barrier Unit.

Cross References: For Section A-A, Section B-B and Section C-C see Sheet 17.



==== SECTION THRU LIFT/DRAIN SLOT =======



DESCRIPTION:



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TYPE K TEMPORARY CONCRETE BARRIER SYSTEM

