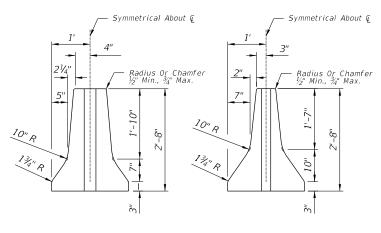
## GENERAL NOTES

- 1. Temporary concrete barrier systems on roadways may be any of the following:
- a. The FDOT Type K Temporary Concrete Barrier system (Design Standard Index 414). F-Shape Units. For temporary concrete barrier systems on bridges see Design Standard Index No. 414.
- b. Proprietary temporary concrete barrier systems meeting NCHRP Report 350 Test Level 3 criteria which are included on the Approved Products List.
- 2. Barrier units of dissimilar types may be interconnected within a single line barriers using transition units.
- 3. Alignment, length of need, anchorage and end treatment shall be in accordance with this Index.
- 4. Temporary concrete barrier units shown herein shall not be used for permanent barrier wall construction regardless of unit length.
- 5. If the plans specify Barrier (Temporary) (Type K), substitution with other barrier types is not permitted.
- 6. If the plans specify temporary concrete barrier system, substitution with water filled barriers is not permitted.
- 7. Where existing pavement is not present, construct an Asphalt Pad using Miscellaneous Asphalt Pavement. Cost of the Asphalt Pad to be included in the cost of the Barrier system.
- 8. Barrier Delineators meeting the requirements of Specifications Section 993 are to be mounted on top of temporary concrete barriers that are used as barriers along traveled ways in work zones. The barrier delineators are to be spaced at 50' centers in transitions, 100' centers on curves and 200' centers on tangent roadways. Color must match adjacent longitudinal pavement marking.
- 9. Barrier units used for work zone traffic control and other temporary applications shall be paid for under the contract unit price for Barrier (Temporary), LF.
- 10. Deflection space shall be clear of any grass, construction debris, stockpiled materials, equipment, and objects.
- 11. Placing alternate temporary barrier systems with heights greater than 32 inches within the work zone may obstruct the clear sight distance at intersections and driveways. Prior to placing these barrier systems, the contractor shall submit a Certification Statement that the clear sight distance meets the requirements of Index 546, signed and sealed by a Florida Professional Engineer.

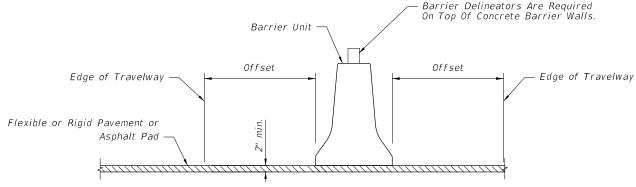
12. Minimum temporary concrete barriers installed per run shall be 16 units.

OFFSET AND DEFLECTION SPACE REQUIREMENTS						
Installation	Shielding	Work Zone Speed	Offset to Travelway	Deflection Space		
Left or Right Shoulder	Above Ground Hazards	45 mph or Less	1' min, 2' preferred	2' min.		
		50 mph and Greater	2' min, 4' preferred	4' min.		
	Drop-Off Hazards	45 mph or Less	1' min, 2' preferred	2' min.		
		50 mph and Greater				
		a. Drop-offs 4' or Less and NO traffic below	2' min, 4' preferred	2' min.		
		b. All drop-off conditions other than 'a'	2' min, 4' preferred	4' min.		
Separating Traffic	Adjacent Opposing Traffic	45 mph or Less	1' min, 2' preferred	1' min., 2' prefered		
		50 mph and Greater	2' min, 4' preferred	2' min., 4' preferred		

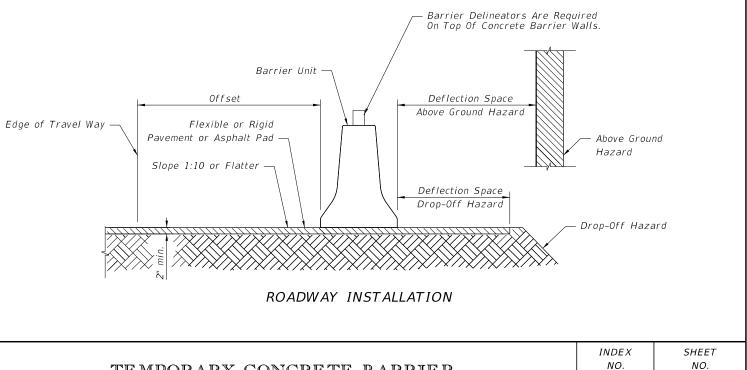




END VIEWS REINFORCEMENT AND OTHER UNIT FABRICATION DETAILS NOT SHOWN. PERMITTED BARRIER UNIT END VIEWS



MEDIAN INSTALLATION



DESCRIPTION:

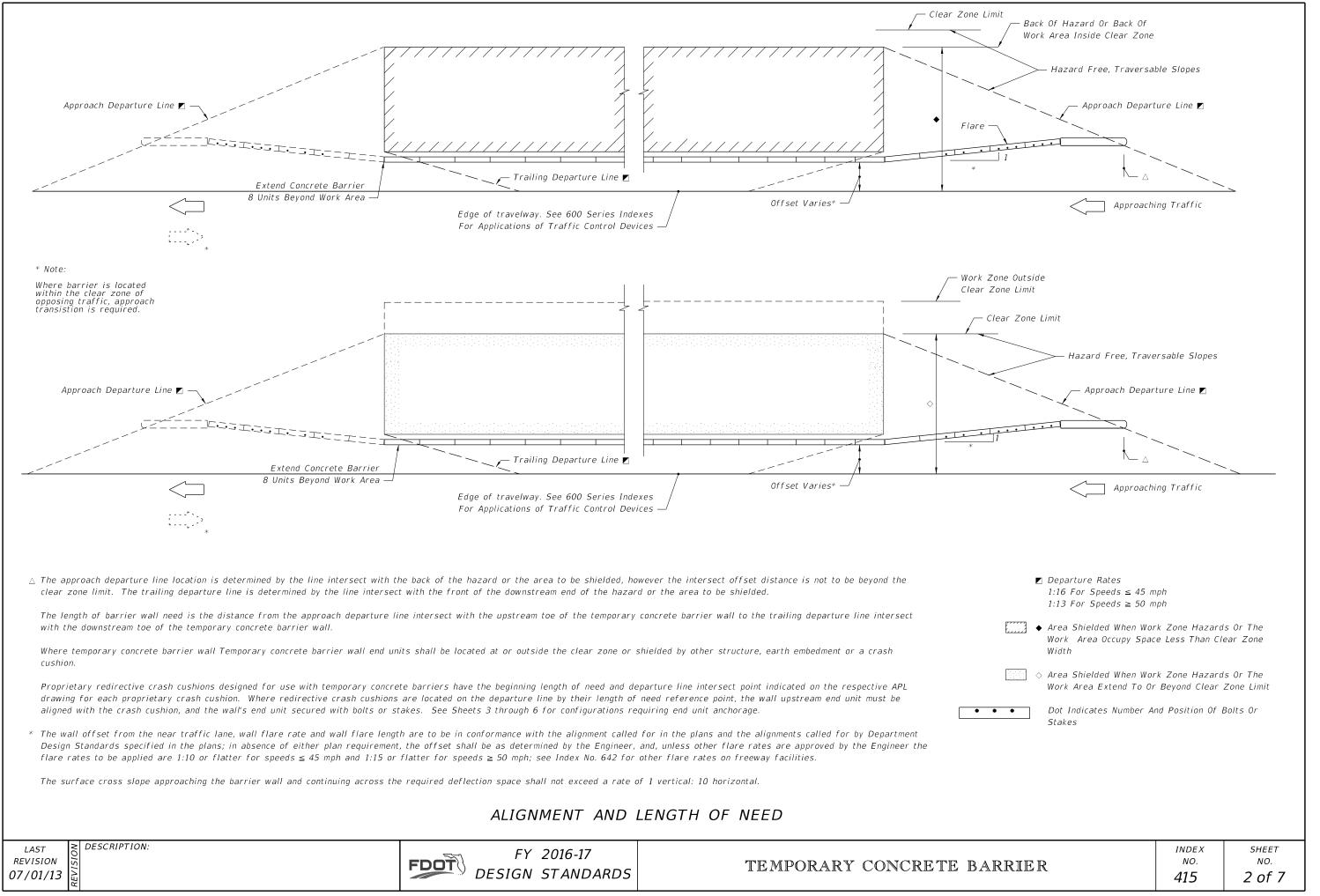
# TEMPORARY CONCRETE BARRIER

N.J. SHAPE

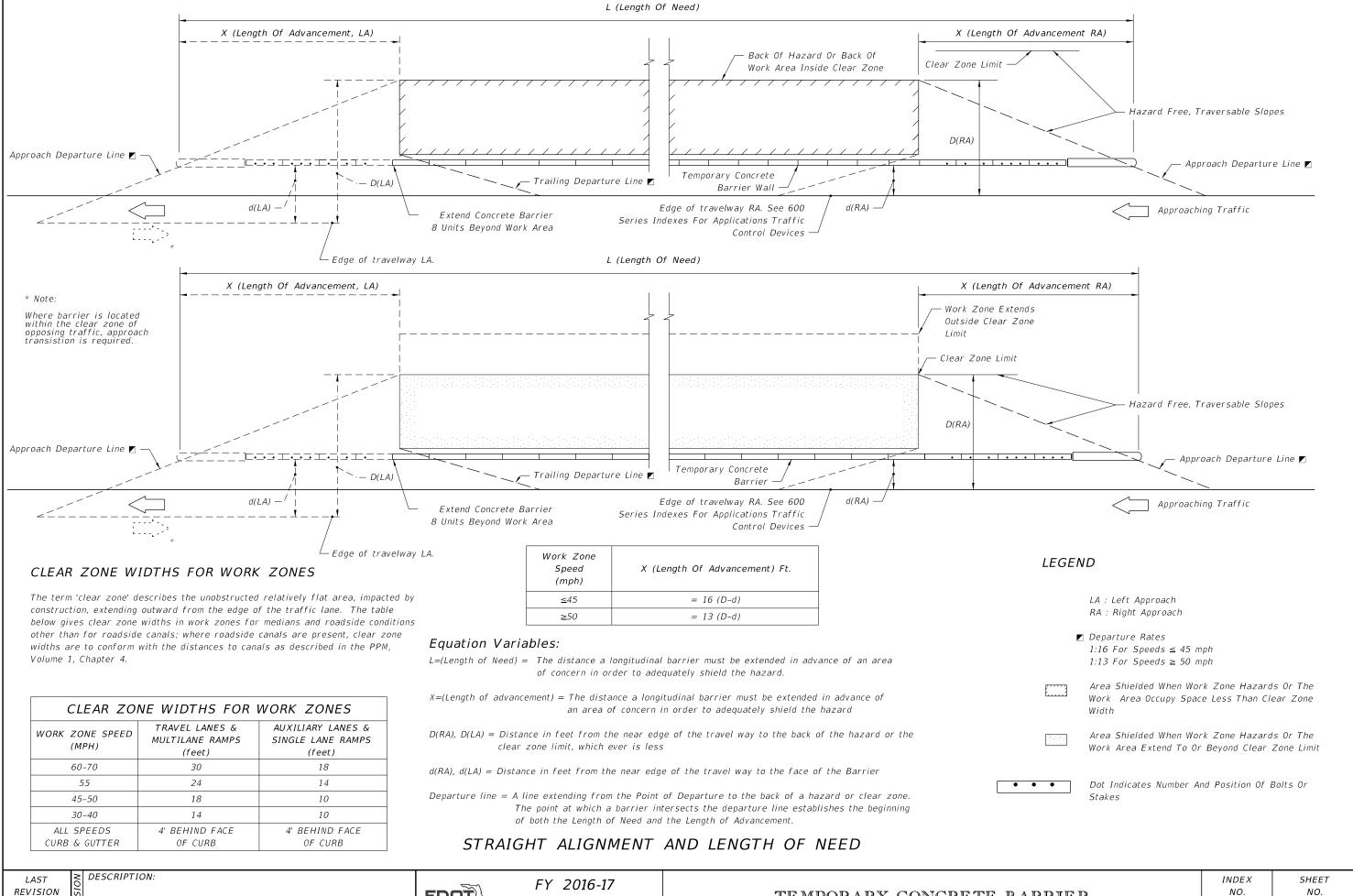
Barrier Delineators Are Required

415

1 of 7



115 12:57:0



CLEAR ZONE WIDTHS FOR WORK ZONES						
WORK ZONE SPEED (MPH)	TRAVEL LANES & MULTILANE RAMPS (feet)	AUXILIARY LANES & SINGLE LANE RAMPS (feet)				
60-70	30	18				
55	24	14				
45-50	18	10				
30-40	14	10				
ALL SPEEDS CURB & GUTTER	4' BEHIND FACE OF CURB	4' BEHIND FACE OF CURB				

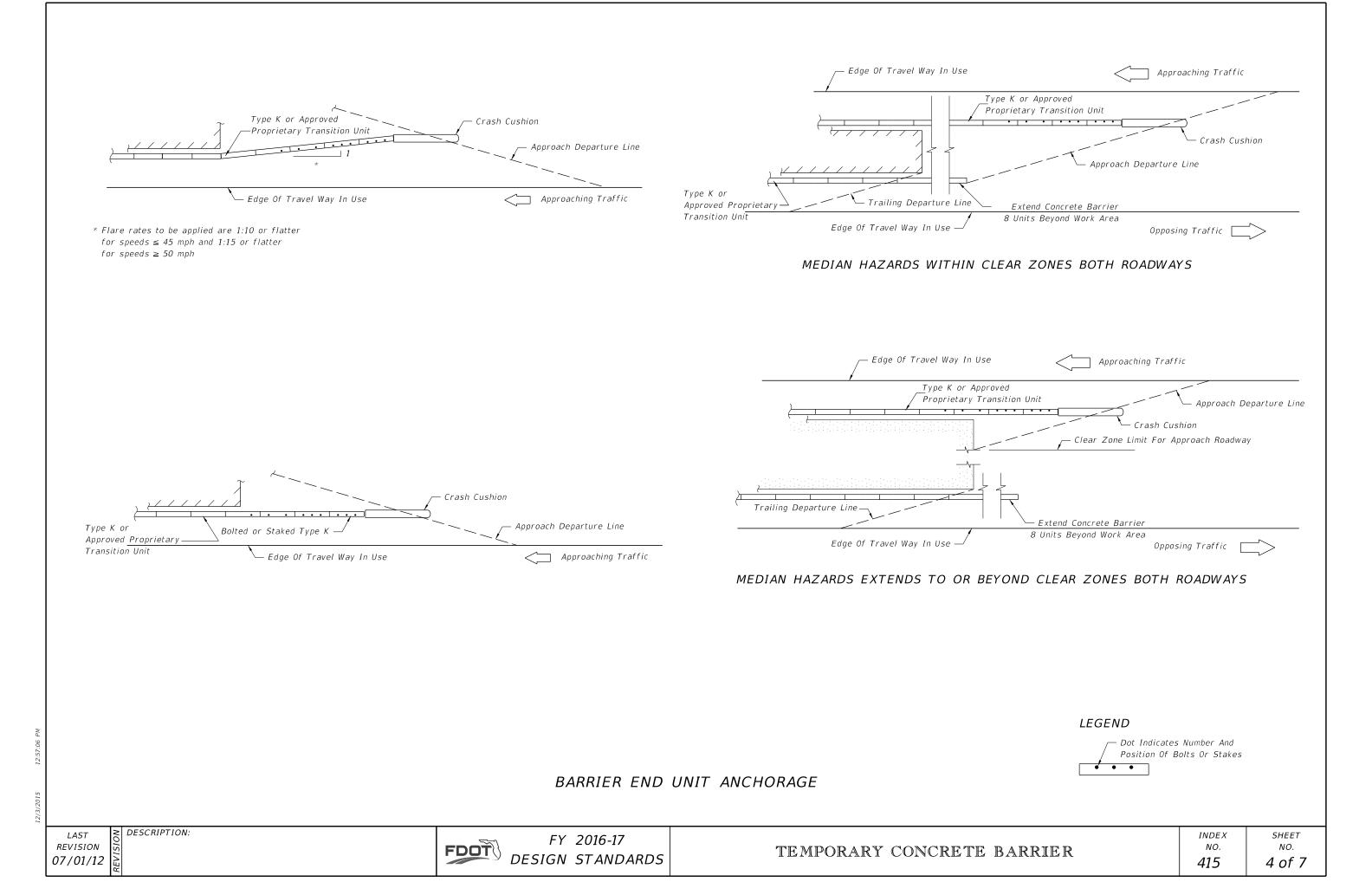
FDOT DESIGN STANDARDS

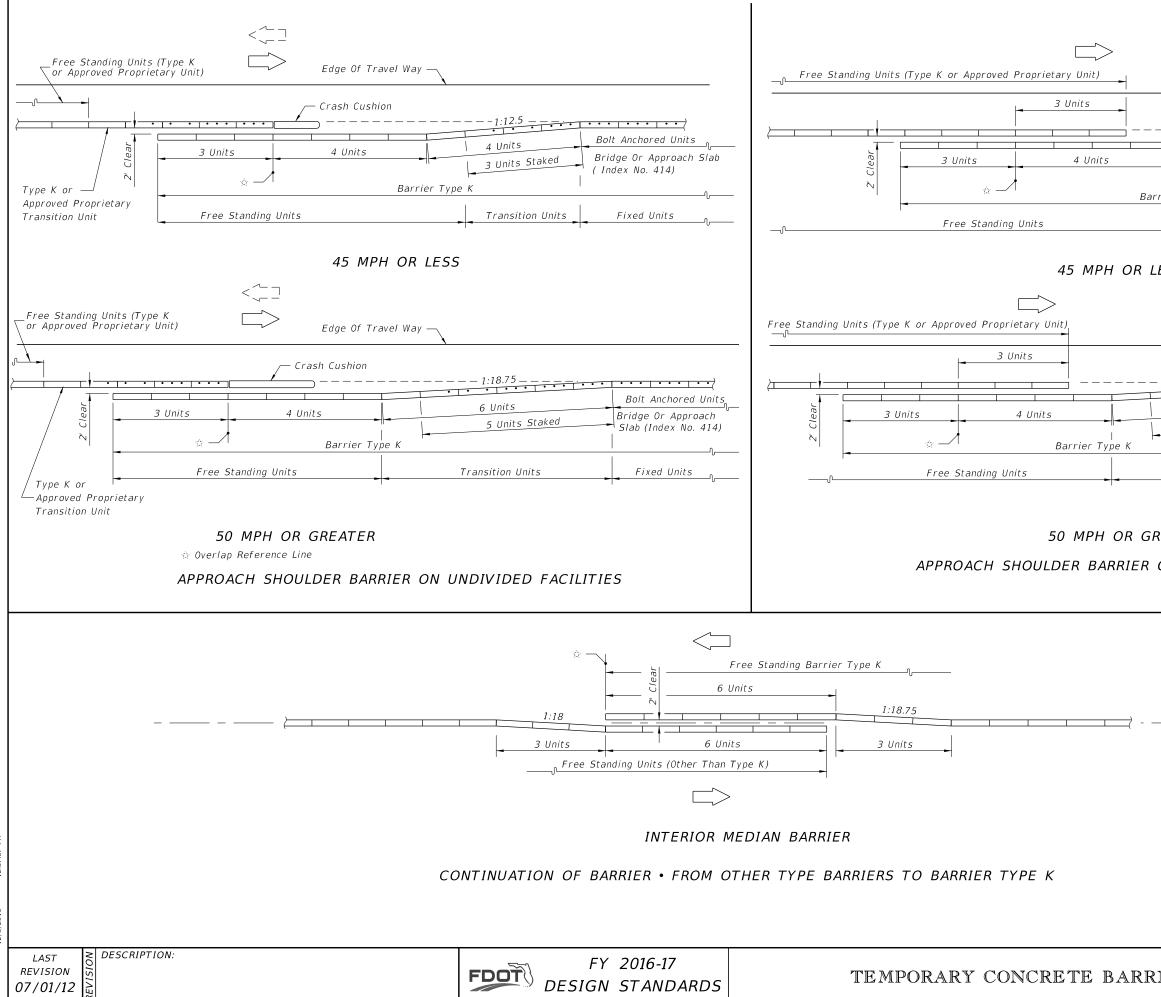
TEMPORARY CONCRETE BARRIER

415

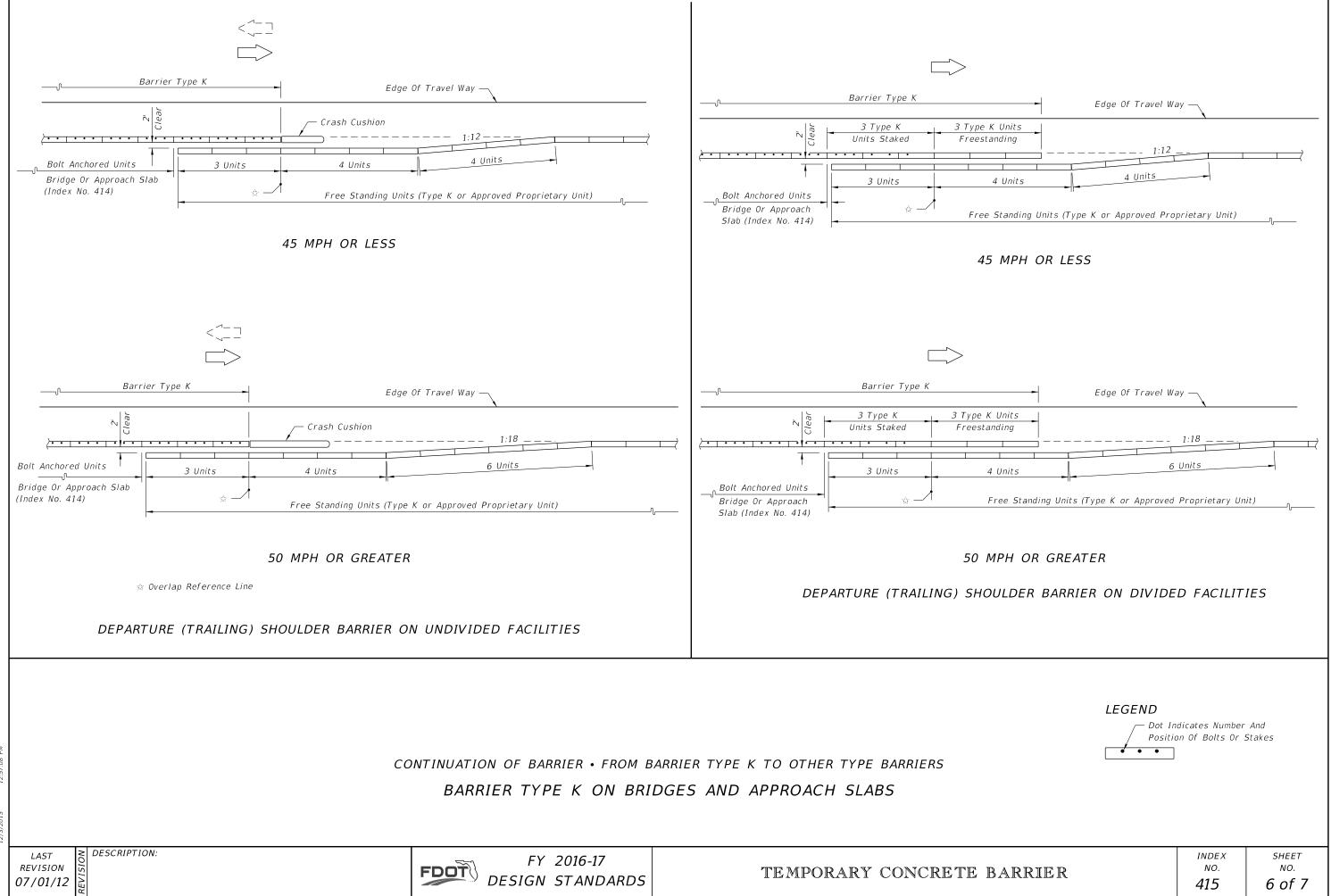
3 of 7

01/01/16

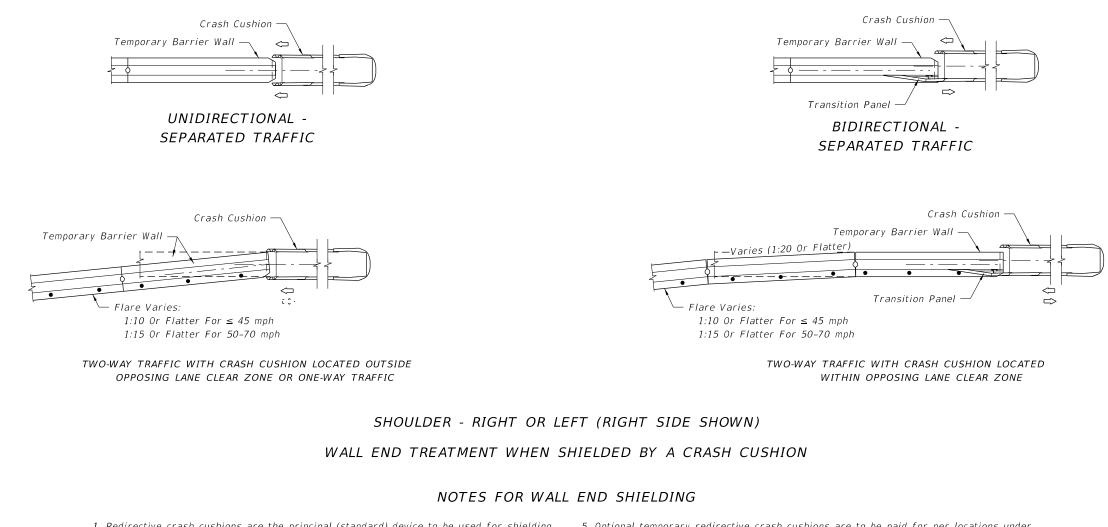




Edge Of Travel Way —					
· · · · · · · · · · · · · · · · · · ·					
1:12.5 1:12.5	Bolt Anchor Bridge Or A (Index N	pproach Slab			
Transition Units	Fixed L	Jnits			
.ESS					
Edge Of Travel Way —					
	••••••••	horod Units			
6 Units		hored Units			
5 Units Staked		<sup>-</sup> Approach ex No. 414)			
		{			
Transition Units	Fixed	Units			
REATER					
ON DIVIDED FACILIT	IES				
LEGEND					
— Dot Indicates Number And Position Of Bolts Or Stakes					
•••		Stares			
	INDEX	SHEET			
IER	NО. <b>415</b>	<sub>NO.</sub> 5 of 7			



R	NO.	N
	415	60



- 1. Redirective crash cushions are the principal (standard) device to be used for shielding approach ends of temporary concrete barrier walls. The contractor has the option to construct any of the redirective crash cushions listed on the Approved Products List at "102 Temporary Crash Cushion", subject to the uses and limitations described on their respective drawings. The barrier wall four end unit abutting crash cushions must be anchored to a paved surface using anchors/stakes in accordance with Standard Index 414.
- 2. Temporary redirective crash cushions shall be installed in accordance with the manufacturer's specifications and recommendations. Temporary crash cushions can be either new or functionally sound used devices. Performance of intended function is the only condition for acceptance, whether the crash cushion is new, used, refurbished, purchased, leased, rented, on loan, shared between projects, or made up of mixed new and used components.
- 3. Temporary Crash Cushions shall not be bolted down on bridge superstructures that contain post-tensioned tendons within the concrete deck (top flange of concrete box girders) or on bridge superstructures consisting of longitudinally prestressed, transversely post-tensioned, solid or voided concrete slab units. Gating crash cushions shall be used where bolting is not allowed.
- 4. Assemble and install Crash Cushions according to the limitations noted on the Approved Products List (APL) webpage, the manufacturer's specifications, and the applicable crash cushion drawings posted on the APL.

- 5. Optional temporary redirective crash cushions are to be paid for per locations under the contract unit price for Crash Cushion (Redirective Option) (Temporary), LO.
- 6. A yellow Type I Object Marker shall be centered 3' in front of the crash cushion nose. Mounting hardware shall be in conformance with Section 993 of the Standard Specifications for Road and Bridge Construction.

As an option, the contractor may install reflective sheeting on the nose of the crash cushion. The sheeting to be used must be solid yellow, Type III or better and must be a product listed on the Department's Approved Products List (APL). The sheeting to be applied to the nose of the crash cushion shall be a minimum of 360 square inches with a minimum height of 15 inches.

- 7. Equipment, stockpile material, etc., shall not be placed behind the crash cushion.
- 8. When subjected to reverse direction hits, construct Transition Panels from Concrete Barrier Walls to Crash Cushions; for additional details refer to the applicable crash cushion drawings on the APL.
- 9. Galvanize metallic components to meet the requirements for Steel Guardrail, Section 967 of the Standard Specifications for Road and Bridge Construction.

LEGEND

LAST

REVISION

07/01/14

Dot Indicates Number And Position Of Bolts Or Stakes

DESCRIPTION:

SHIELDING WALL ENDS WITH REDIRECTIVE CRASH CUSHIONS (REDIRECTIVE OPTION)

TEMPORARY CONCRETE BARR

TER	INDEX NO.	SHEET NO.
	415	7 of 7