

REINFORCEMENT AND OTHER UNIT FABRICATION DETAILS NOT SHOWN. SEE 'NOTICE' BELOW.

WALL UNIT

NOTICE

THE TEMPORARY CONCRETE BARRIER WALL UNIT SHOWN ON THIS INDEX THAT WAS PRODUCED PRIOR TO OCTOBER 1,2002, AND THAT IS IN GOOD CONDITION, CAN BE USED ON STATE HIGHWAY PROJECTS THROUGH SEPTEMBER 30,2012. TEMPORARY CONCRETE BARRIER UNITS PRODUCED ON AND AFTER OCTOBER 1,2002 FOR USE ON STATE HIGHWAY PROJECTS MUST MEET NCHRP 350 CRITERIA, AND MUST BE INCLUDED ON THE QUALIFIED PRODUCTS LIST. IF AND WHEN A GENERIC TEMPORARY CONCRETE BARRIER WALL UNIT IS APPROVED FOR USE ON STATE HIGHWAY PROJECTS, THE UNIT DESIGN WILL BE POSTED ON THE ROADWAY DESIGN WEB SITE.

FDOT 415 TEMPORARY CONCRETE BARRIER WALL UNIT AND GENERAL NOTES

GENERAL NOTES

- I. Temporary Concrete Barrier walls on roadways may be any of the following:
 - a. The FDOT 4/5 Temporary Concrete Barrier wall unit shown on Sheets I and 3 of this index, if manufactured prior to October I, 2002, in good condition, and installed in accordance with this Index. Units may be either F-Shape or New Jersey Shape. The FDOT 4/5 unit shown in this Index is the design provided in Index No. 4/5 in prior editions of the Design Standards. See "NOTICE" below. Since units produced after October I, 2002 cannot be used, complete fabrication details are omitted in this edition of the Design Standards.
 - b. The JJ Hook System (Index 413). Units may be either F-Shape or New Jersey Shape unless otherwise noted in the plans.
 - c. The FDOT Type K Temporary Concrete Barrier Wall (Structures Design Standard Index 715). F-Shape Units only.
 - d. Temporary concrete barrier wall systems meeting NCHRP 350 Test Level 3 criteria and included on the Qualified Products List.

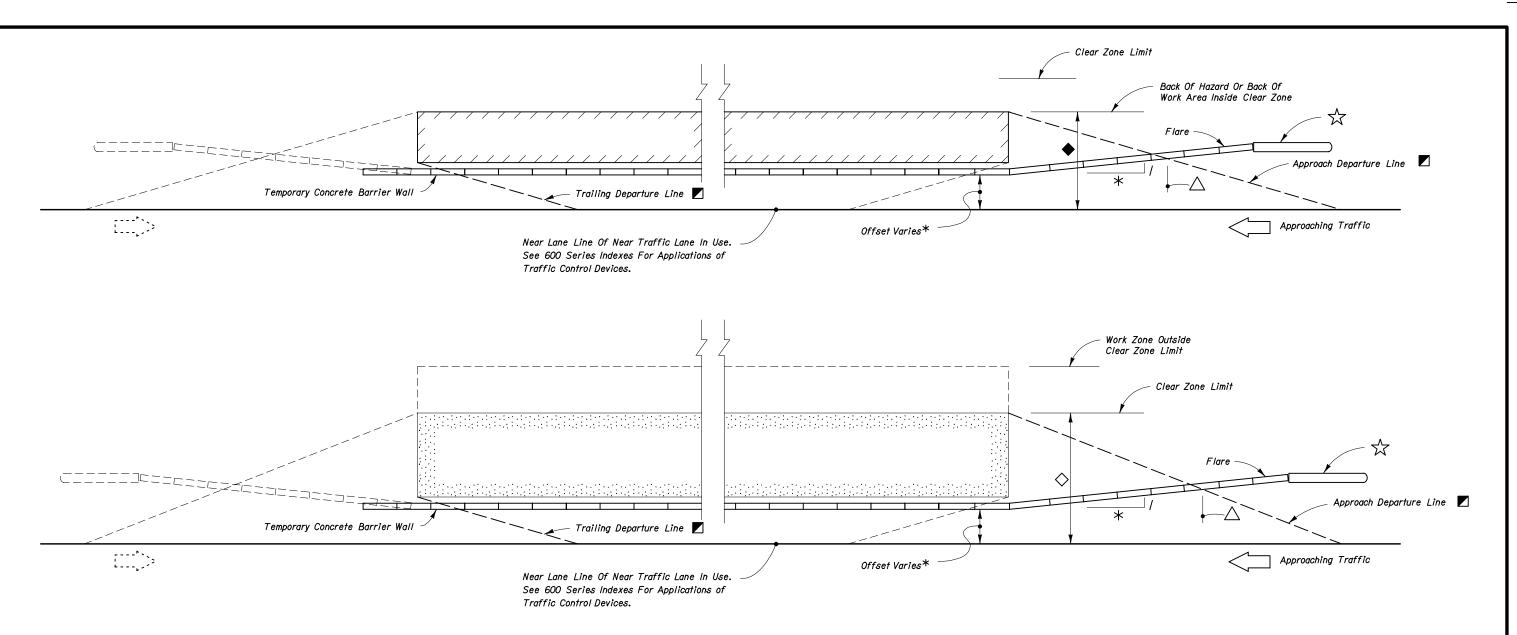
For temporary concrete barrier walls on bridges see Structures Design Standard Index No. 715.

- 2. The FDOT 4I5 units with the optional end connections shown in this index may be interconnected within a run of wall. However, intermixing units with different shapes (F-Shape, New Jersey Shape) and units with dissimilar end connections (4I5, JJ Hook, Type K, or other) within a continuous run of wall is not permitted. See Sheets 6 through 8 of IO for required treatment for continuation of runs of barrier with different shapes or dissimilar connectors.
- 3. Alignment, length of need, anchorage and end treatment shall be in accordance with this index.
- 4. Wall units shall not be used for permanent barrier wall construction regardless of unit length, unless specifically permitted by the plans.
- 5. If the plans specify Barrier Wall (Temporary) (Type K), substitution with other barrier types is not permitted.
- 6. If the plans specify temporary concrete barrier wall, substitution with water filled barriers is not permitted.
- 7. Type C Steady-Burn Lights are to be mounted on top of temporary concrete barrier walls that are used as barriers along traveled ways in work zones. The lights are to be spaced at 50' centers in transitions, 100' centers on curves and 200' centers on tangent roadways. For additional information refer to Index 600.
- 8. Wall units used for work zone traffic control and other temporary applications shall be paid for under the contract unit price for Barrier Wall (Temporary), LF. Type C Steady-Burn Lights shall be paid for under the contract unit price for Lights, Temporary, Barrier Wall Mount (Type C, Steady-Burn), ED.

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TEMPORARY CONCRETE BARRIER

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△ The approach departure line location is determined by the line intersect with the back of the hazard or the area to be shielded, however the intersect offset distance is not to be beyond the clear zone limit. The trailing departure line is determined by the line intersect with the front of the downstream end of the hazard or the area to be shielded.

The length of barrier wall need is the distance from the approach departure line intersect with the upstream toe of the temporary concrete barrier wall to the trailing departure line intersect with the downstream toe of the temporary concrete barrier wall.

Where temporary concrete barrier wall end units are not anchored, two and one-half (2½) wall units (min.) are required beyond the length of barrier need for wall end anchorage. Temporary concrete barrier wall end units shall be located at or outside the clear zone or shielded by other structure, earth embeddment or a crash cushion.

Proprietary redirective crash cushions designed for use with temporary concrete barriers have the beginning length of need and departure line intersect point indicated on the Design Standard drawing for each proprietary crash cushion. Where redirective crash cushions are located on the departure line by their length of need reference point, the wall upstream end unit must be aligned with the crash cushion, and the wall's end unit secured with the anchor plates shown on Sheet 4 of this index. See Sheets 5 through 8 for configurations requiring end unit anchorage.

* The wall offset from the near traffic lane, wall flare rate and wall flare length are to be in conformance with the alignment called for in the plans and the alignments called for by Department Design Standards specified in the plans; in absence of either plan requirement, the offset shall be as determined by the Engineer, and, unless other flare rates are approved by the Engineer the flare rates to be applied are I: IO or flatter for speeds \leq 45 mph and l:15 or flatter for speeds \geq 50 mph; see Index No. 600 for other flare rates on expressway facilities.

Departure Rates I:16 For Speeds ≤ 45 mph 1:13 For Speeds≥50 mph

Area Shielded When Work Zone Hazards Or The Work Area Occupy Space Less Than Clear Zone Width

Area Shielded When Work Zone Hazards Or The Work Area Extend To Or Beyond Clear Zone Limit

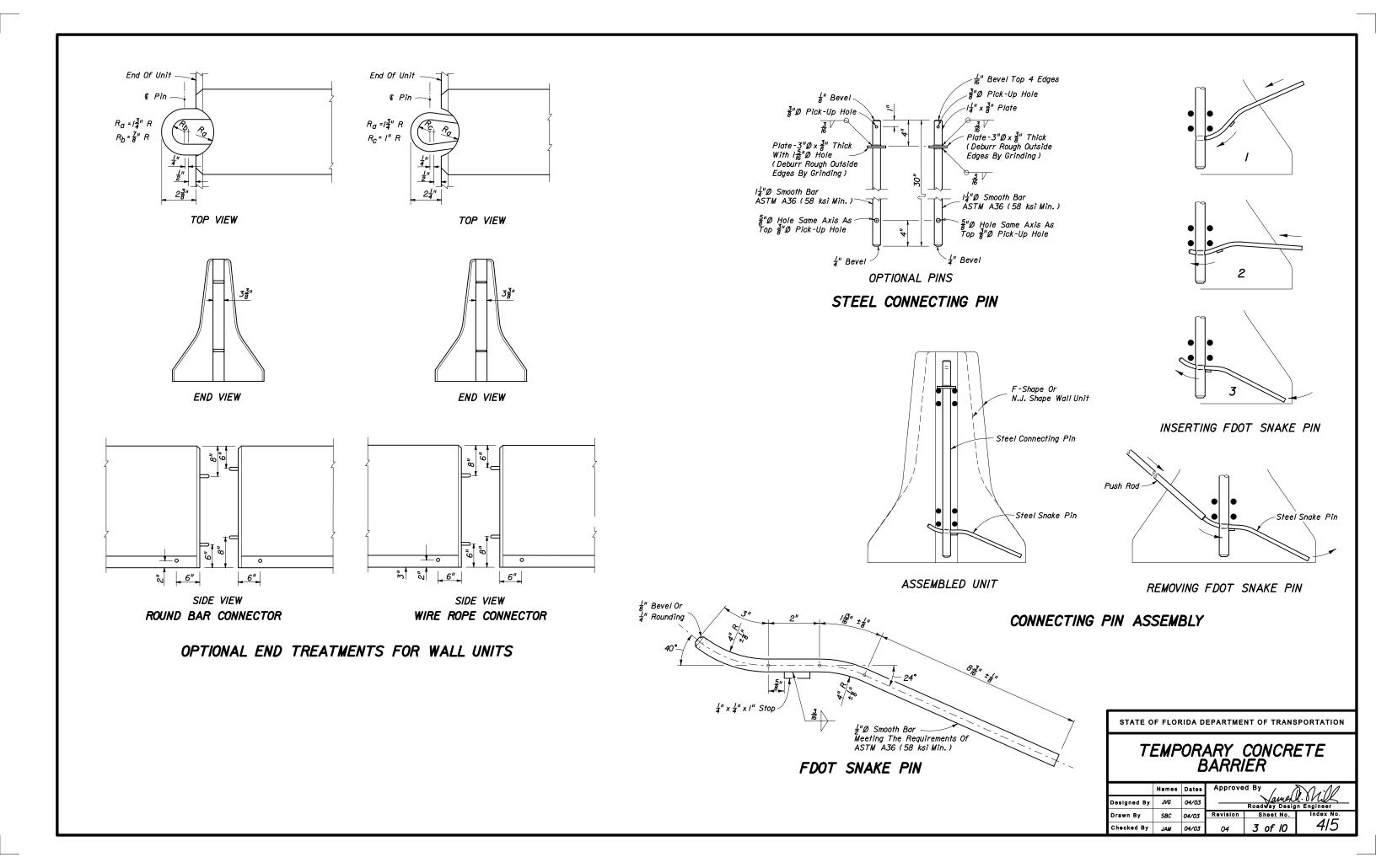
> Crash Cushion In Absence Of Other Wall End Shielding. See △ Notations And Sheet 5 Through 8 For Varied Locations For Wall End Units And Crash Cushions.

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TEMPORARY CONCRETE BARRIER

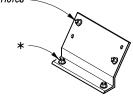
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ALIGNMENT AND LENGTH OF NEED



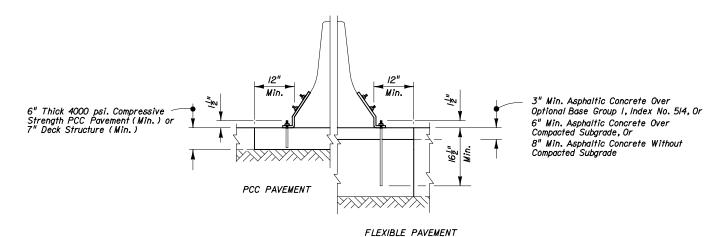
ANCHOR PLATE

 $\frac{3}{4}$ " \emptyset x $6\frac{1}{5}$ " Adhesive Bonded Anchor Bolts (EAS MP-3 Or Equal), 5" Embeddment, Two (2) Required Each Anchor Plate Installed In Diagonally Opposing Holes —



* ¾"Øx6½" Adhesive Bonded Anchor Bolts (EAS MP-3 Or Equal), 5" Embedment Where Installed On Concrete Pavement Or Decking, Two (2) Required Each Anchor Plate, ¾"Øx18" MP-3 Threaded Rod Longbolt System Or Other Approved ¾"Øx18" Threaded Rod With Chemical Anchorage Full Embedment Depth Where Installed On Asphaltic Concrete Pavement Prescribed Below, Two (2) Required Each Anchor Plate.

ANCHOR PLATE BOLTS



SURFACE ANCHORAGE REQUIREMENTS

ANCHOR PLATE NOTES

- I. For temporary barrier wall end units requiring anchor plates, see sheets 5 through 8.
- 2. The temporary concrete barrier wall anchor plate depicted above is a proprietary design by Energy Absorption Systems, Inc. Other temporary anchorage methods can be substituted when wall rigidity is assured by any of the following:
 - (a) proven by associated crash test of redirective crash cushions, or
 - (b) meet anchorage prescribed in 'A Guide To Standardized Highway Barrier Hardware', or
 - (c) crash cushion manufacturer's engineered design, or
 - (d) approved shop drawings on a case by case basis.
- 3. The cost for anchoring the wall segment will be included in the cost for the adjoining redirective crash cushion.

NOTES FOR WALL END SHIELDING

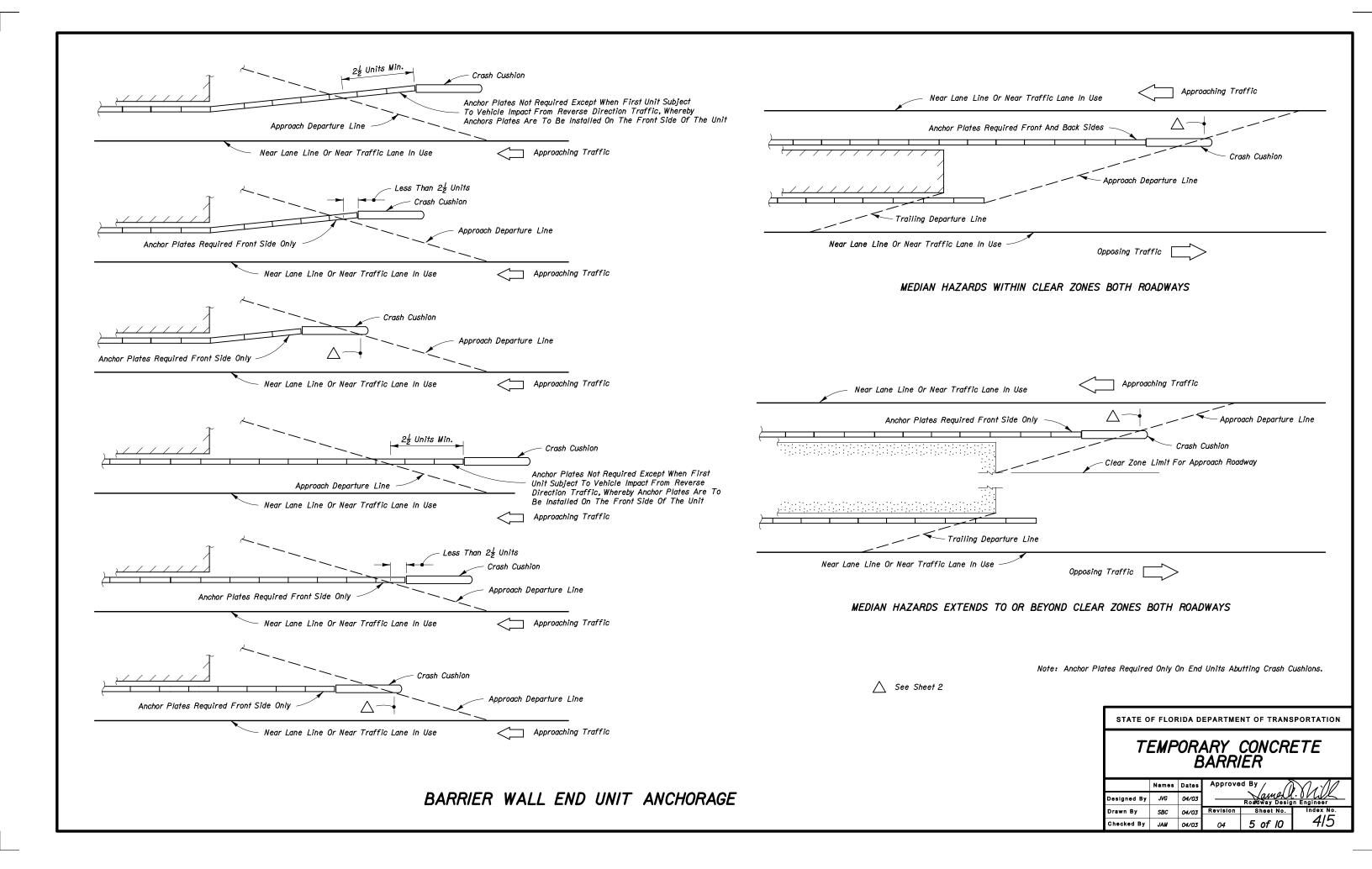
- I. Redirective crash cushions are the principal (standard) device to be used for shielding approach ends of temporary concrete barrier walls. Except where the plans designate a particular type of redirective crash cushion for a specific location, the contractor has the option to construct either the REACT 350, QuadGuard, ADIEM 350, TRACC or TAU-II crash cushions subject to the uses and limitations described on Index Nos. 434, 435, 436, 440 and 44I respectively. The barrier wall end unit must be anchored to a paved surface using anchor plates in accordance with "Anchor Plate Notes" and the details on this sheet.
- 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. Inertial crash cushions are not optional systems for locations designated for redirective crash cushions by the plans; can not be substituted for redirective crash cushions, and are not eligible for VECP consideration.
- 4. A yellow post mounted Type I Object Marker shall be centered 3' in front of the nose of all temporary crash cushions. Mounting hardware shall be in accordance with Index Nos. II860 and II865. The cost of the Object Marker shall be included in the cost of the crash cushion.
- 5. Optional temporary redirective crash cushions are to be paid for per location under the contract unit price for Vehicular Impact Attenuator (Temporary) (Redirective Option), LO.

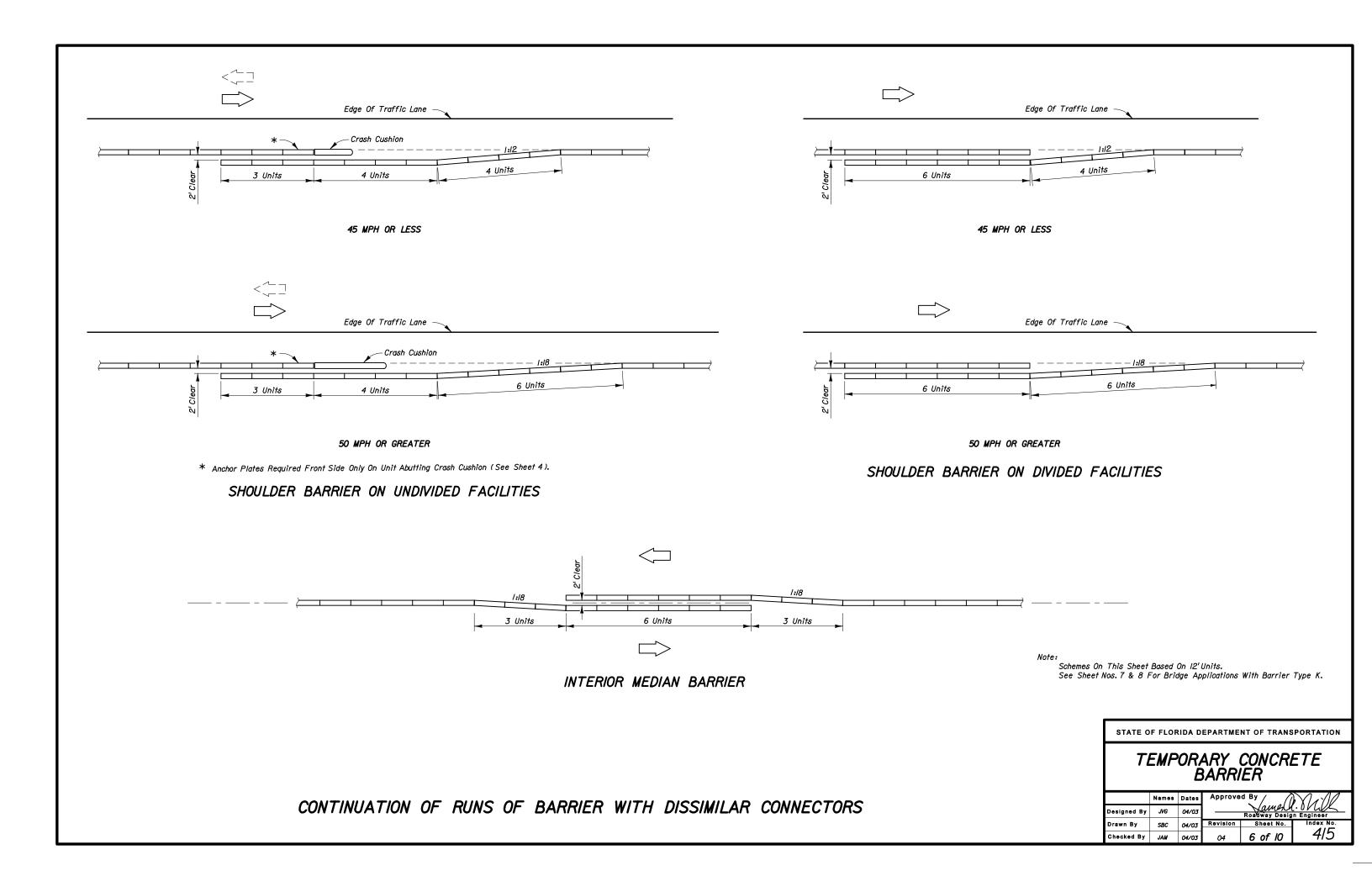
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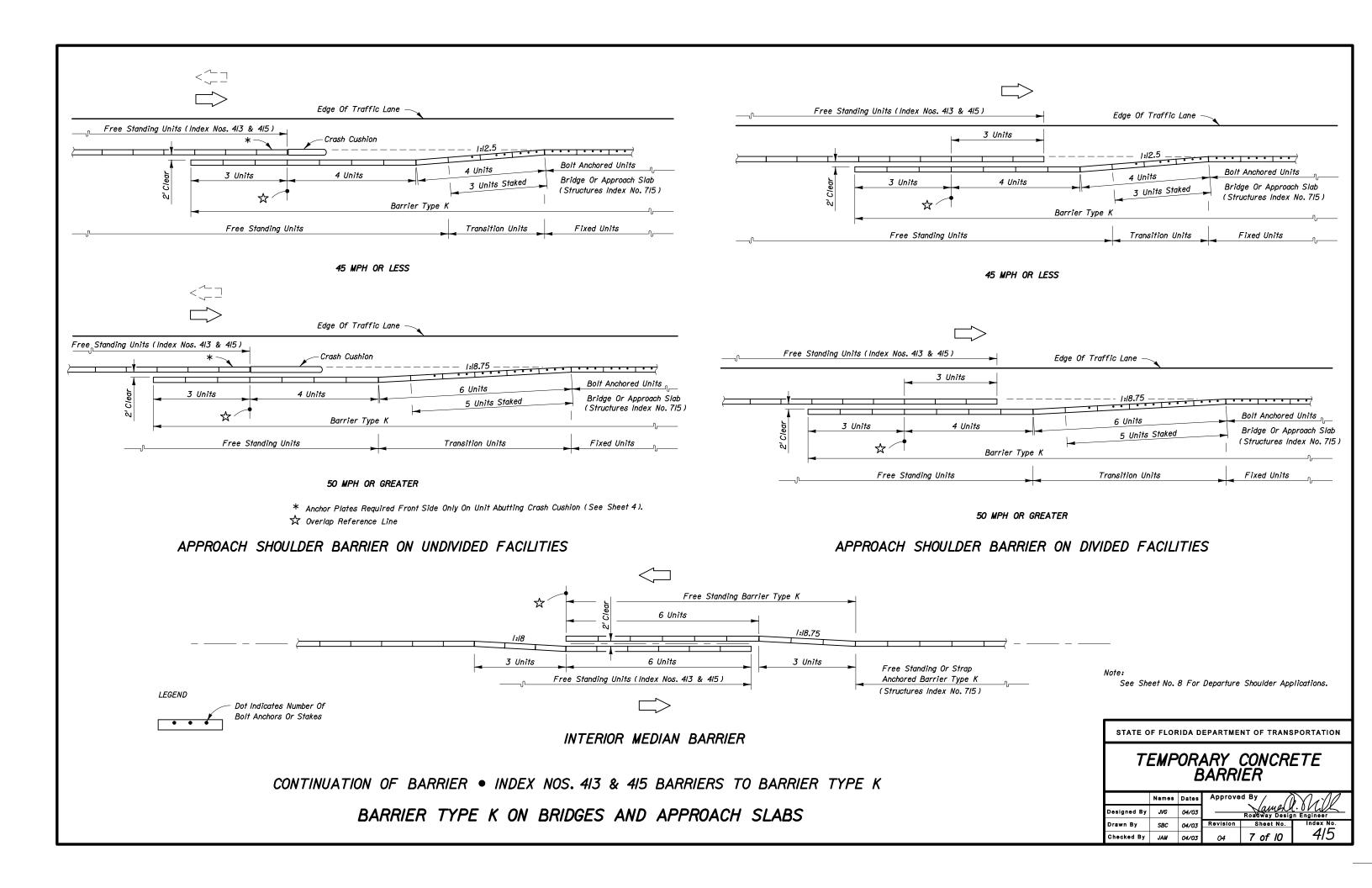
TEMPORARY CONCRETE BARRIER

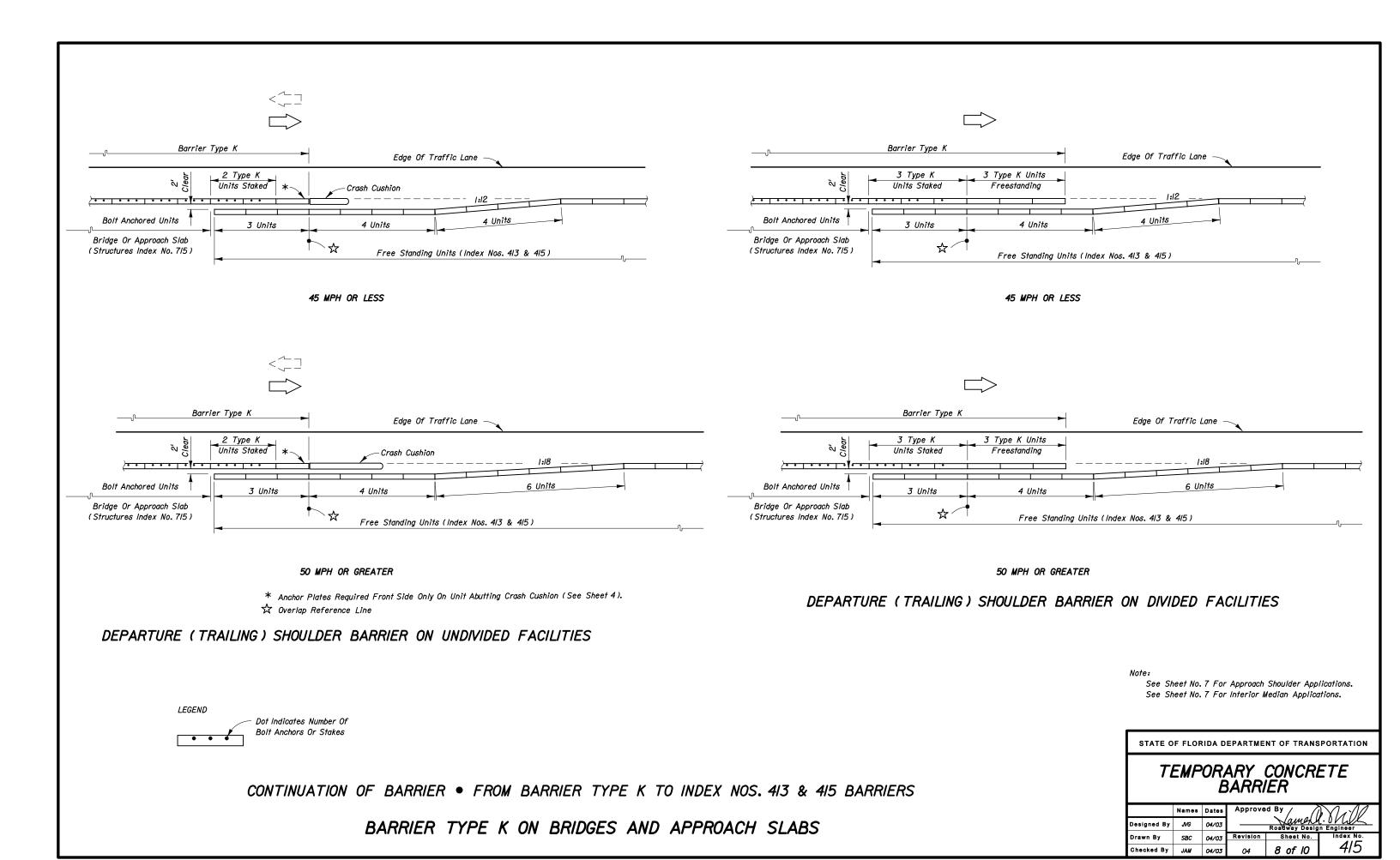
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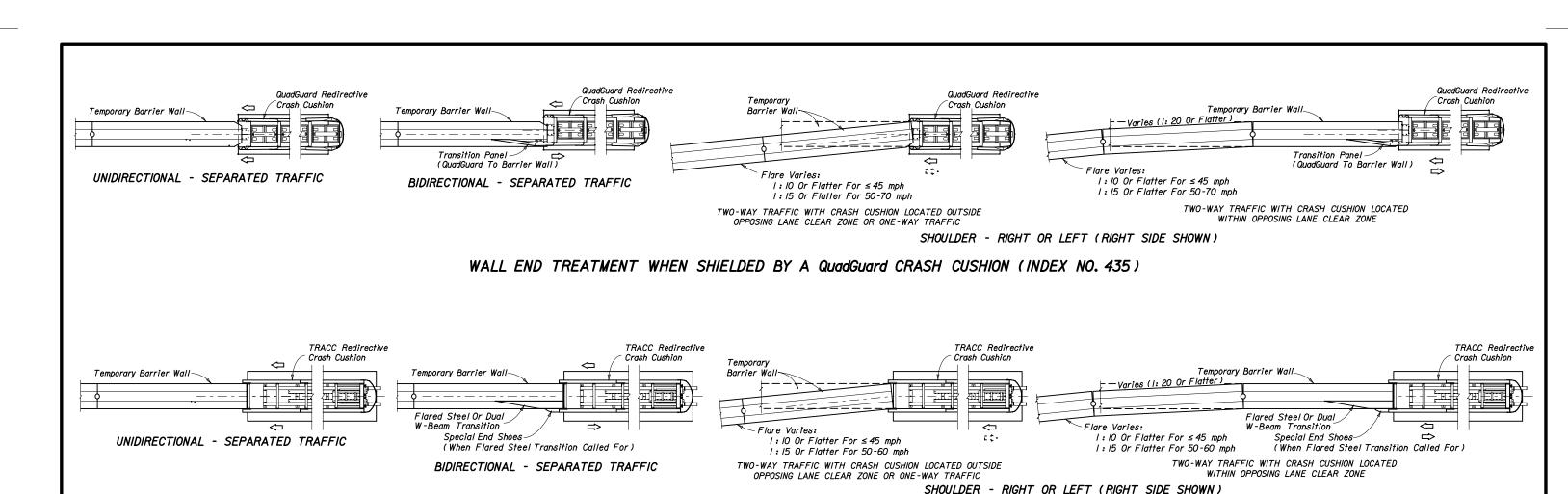
ANCHOR PLATE REQUIREMENTS FOR BARRIER WALL END UNITS ABUTTING CRASH CUSHIONS



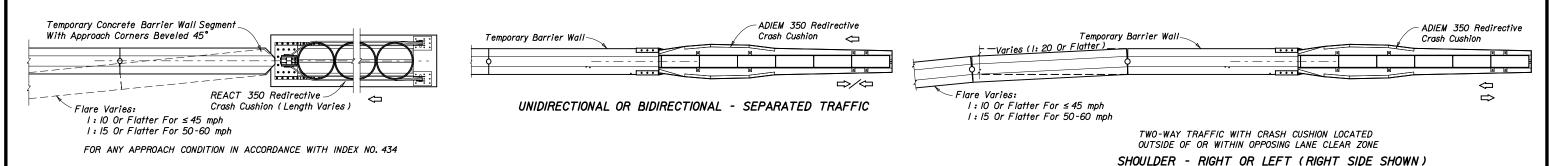








WALL END TREATMENT WHEN SHIELDED BY A TRACC CRASH CUSHION (INDEX NO. 440)



WALL END TREATMENT WHEN SHIELDED BY A
REACT 350 CRASH CUSHION (INDEX NO. 434)

END TREATMENT WHEN SHIELDED BY AN
ADIEM 350 CRASH CUSHION (INDEX NO. 436)

NOTES

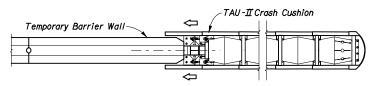
- I. For alignment and length of need see Sheets 2 and 5 through 8.
- 2. Anchor plates required only on units abutting crash cushions.

SHIELDING WALL ENDS WITH REDIRECTIVE CRASH CUSHIONS (REDIRECTIVE OPTION)
(CONTINUATION ON SHEET 10)

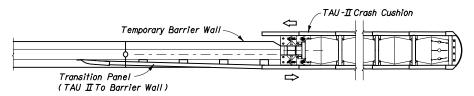
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TEMPORARY CONCRETE BARRIER

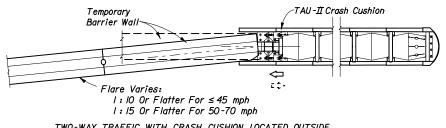
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UNIDIRECTIONAL - SEPARATED TRAFFIC

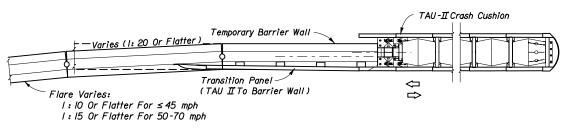


BIDIRECTIONAL - SEPARATED TRAFFIC



TWO-WAY TRAFFIC WITH CRASH CUSHION LOCATED OUTSIDE OPPOSING LANE CLEAR ZONE OR ONE-WAY TRAFFIC

SHOULDER - RIGHT OR LEFT (RIGHT SIDE SHOWN)



TWO-WAY TRAFFIC WITH CRASH CUSHION LOCATED WITHIN OPPOSING LANE CLEAR ZONE

SHOULDER - RIGHT OR LEFT (RIGHT SIDE SHOWN)

WALL END TREATMENT WHEN SHIELDED BY TAU II CRASH CUSHION (INDEX NO. 441)

NOTES

- I. For alignment and length of need see Sheets 2 and 5 through 8.
- 2. Anchor plates required only on units abutting crash cushions.

SHIELDING WALL ENDS WITH REDIRECTIVE CRASH CUSHIONS (REDIRECTIVE OPTION)

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