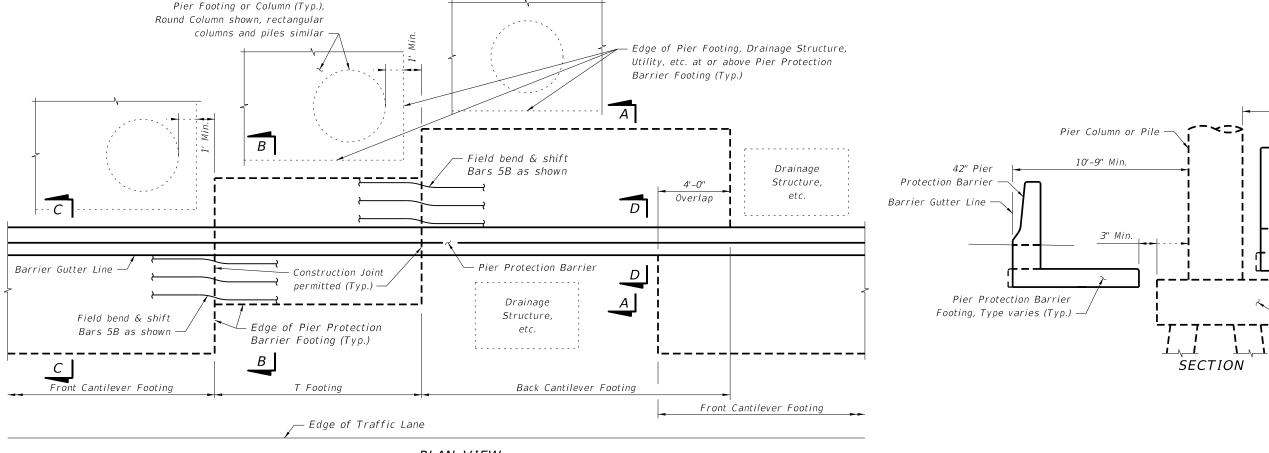
GENERAL NOTES

- 1. Concrete shall be Class III or IV unless otherwise called for in the plans. Exposed concrete surfaces shall have a Class 3 surface finish in accordance with Section 521 of the Specifications, unless another finish is called for in the plans. The surfaces shall have a Class 5 Applied Finished Coating in accordance with Section 400 only when called for in the plans.
- 2. Construct Pier Protection Barrier continuous without transverse contraction or expansion joints. Transverse construction joints may be used at a spacing greater than or equal to 40°. Provide longitudinal reinforcing steel continuous across construction joints.
- 3. When the Pier Protection Barrier is installed adjacent to Roadway or Shoulder pavement, compact the top 12" of the subgrade to at least 98% of the maximum density determined by FM 1-T 180, Method D.
- 4. Isolate Barrier Wall Inlets, Index 218, from Pier Protection Barriers and Footings with 1" expansion material.

- 5. On roadways designated for reverse laning, mark all downstream barrier ends that are not shielded or outside the clear zone with Type 3 Object Markers. Include the cost of the Object Marker in the cost of the Pier Protection
- 6. Payment: Pier Protection Barrier and Crash Wall to be paid for under the contract unit price for Shoulder Concrete Barrier Wall (Rigid-Shoulder 42"), LF, or Shoulder Concrete Barrier Wall (Rigid-Shoulder 54"), LF.
- 7. Provide 3/8" deep crack control V-grooves at 15 to 30' spacing. Locate V-grooves above any joint or discontinuity in the barrier footing. Align V-Grooves perpendicular to the longitudinal axis of the Pier Protection Barrier and make continuous across the top surface and both side faces. For slip formed barriers, score 3/8" V-Grooves while the concrete is still plastic, otherwise pre-form the joints when stationary forms are utilized.



PLAN VIEW

PIER PROTECTION BARRIER FOOTING LAYOUT SCHEMATICS

REVISION 01/01/12

DESCRIPTION:



FDOT DESIGN STANDARDS 2013

PIER PROTECTION BARRIER

INDEXSHEET NO. NO.

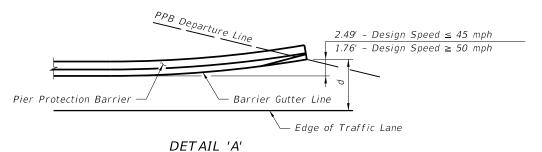
1'-9" Min > 2'-0" Preferred

Pier Footing

(Varies)

Protection Barrier

Barrier Gutter Line



Design Speed X (Length of Advancement) Ft. mph ≤45 = 16 (D-d)= 13 (D-d)

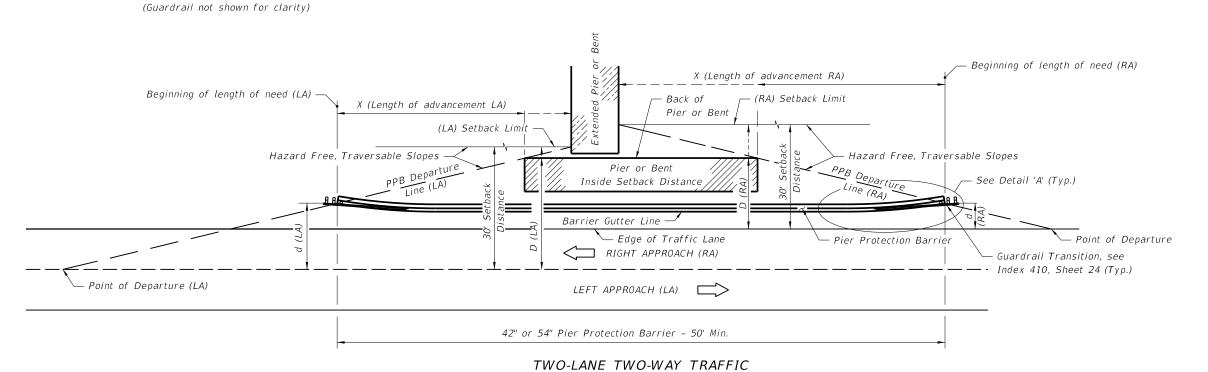
NOTE:

Length of Advancement determined from the diagrams and equations shown establishes the location of the upstream beginning length of need for a Pier Protection Barrier, however, the Length of Advancement for the combination of Pier Protection Barrier and required guardrail can be no less than that required by other details of Index 400.

Equation Variables:

D = Distance in feet from the near edge of the near approach traffic lane to either (a) the back of pier, when the pier is located inside the Setback Distance or (b) the Setback Distance, when the pier extends to or goes beyond the Setback Distance. For left side piers on two-way undivided facilities, D is measured from the inside edge of the near approach traffic lane.

d = Distance in feet from the near edge of the near approach traffic lane to the Pier Protection Barrier gutter line at its intersection with the departure line or the face of guardrail at its intersection with the departure line. For left side hazards on two-way undivided facilities, d is measured from the inside edge of the near approach traffic lane.



NOTE:

See Index 400 for Clear Zone and Horizontal Clearance Length of Advancement Diagrams.

PPB = Pier Protection Barrier

LENGTH OF ADVANCEMENT DIAGRAMS - PIER PROTECTION BARRIER WITH GUARDRAIL CONTINUATION

LAST REVISION 07/01/09

DESCRIPTION:



FDOT DESIGN STANDARDS 2013

PIER PROTECTION BARRIER

INDEX SHEET NO. NO. 411

07/01/06

DESCRIPTION: REVISION



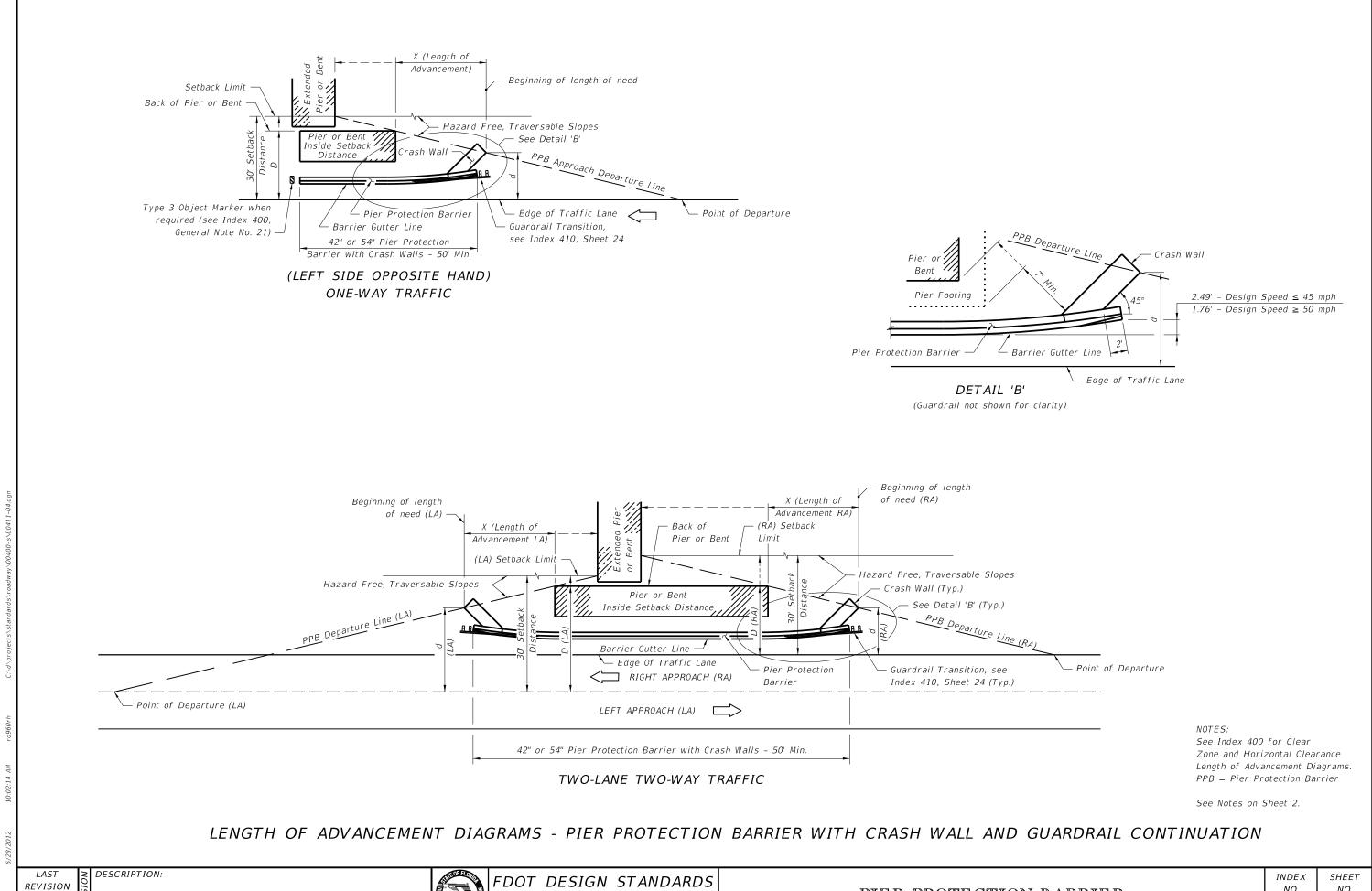
- Beginning of length of need (RA)

— Concrete Barrier Wall, see Index 410

Point of Departure

32" Concrete Barrier Wall, See Index 410

INDEX NO. 411



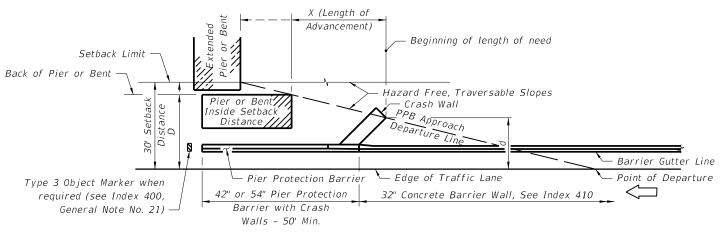
07/01/09

LAST

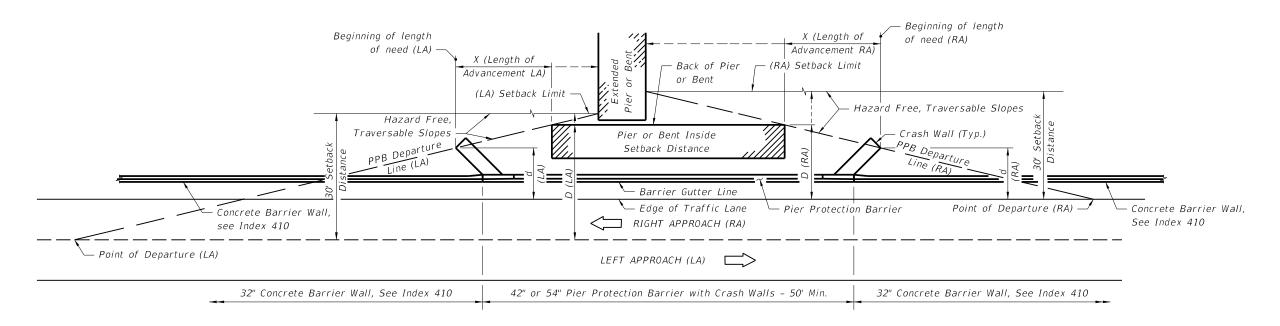
REVISION

07/01/06

DESCRIPTION:



(LEFT SIDE OPPOSITE HAND) ONE-WAY TRAFFIC



TWO-LANE TWO-WAY TRAFFIC

NOTES: See Index 400 for Clear Zone and Horizontal Clearance Length of Advancement Diagrams. PPB = Pier Protection Barrier

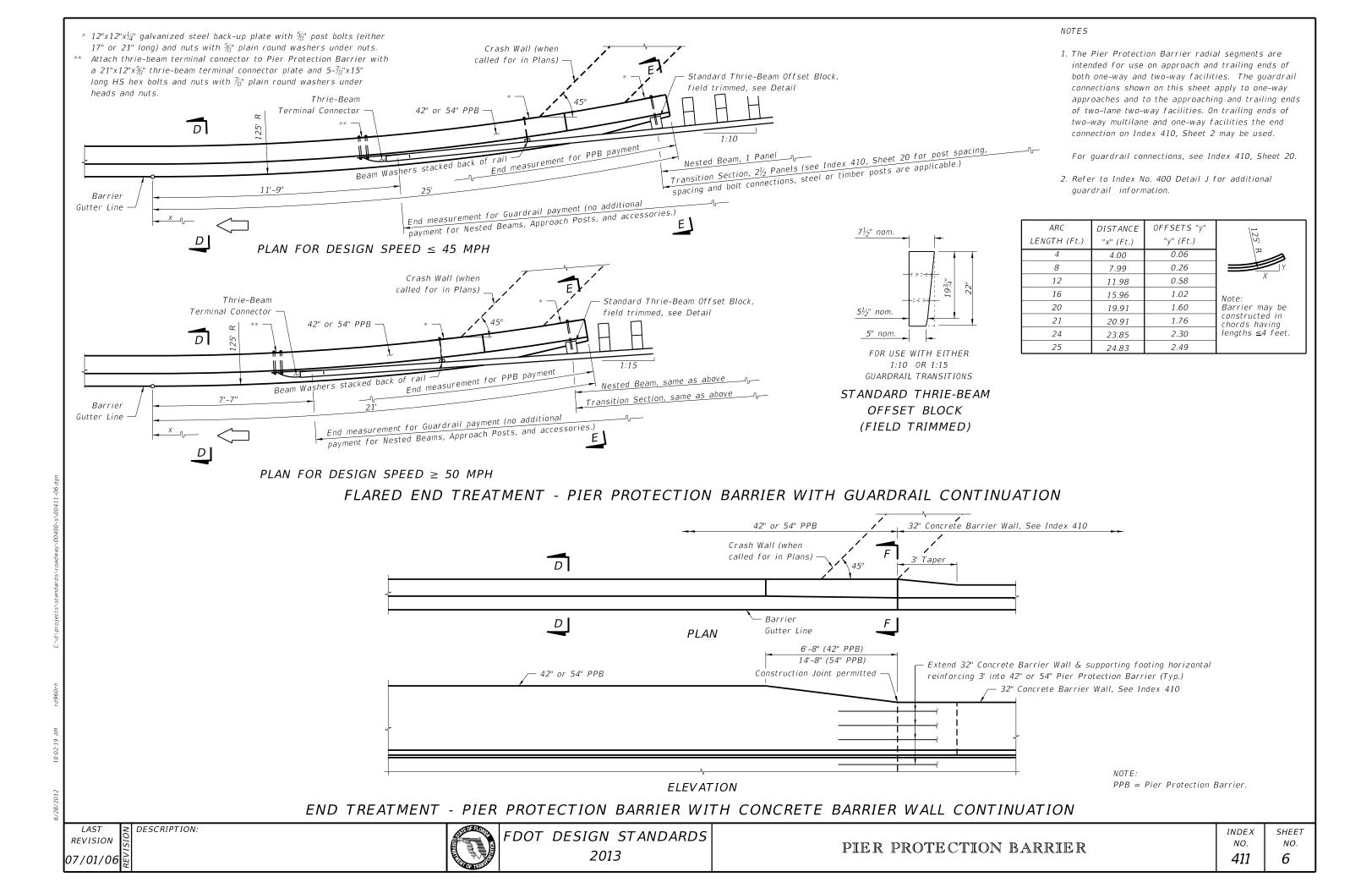
See Notes on Sheet 2.

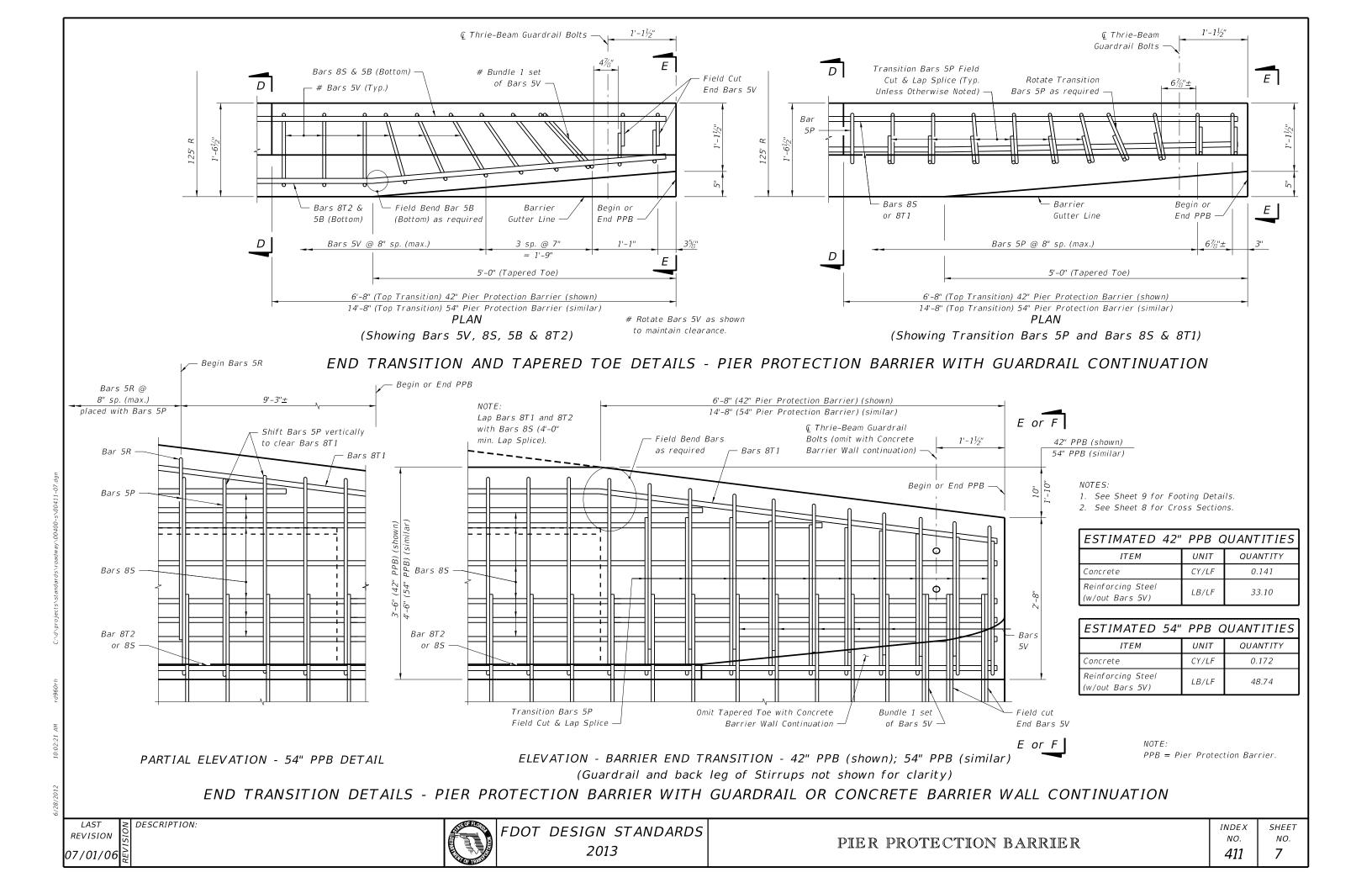
LENGTH OF ADVANCEMENT DIAGRAMS - PIER PROTECTION BARRIER WITH CRASH WALL AND CONCRETE BARRIER WALL CONTINUATION

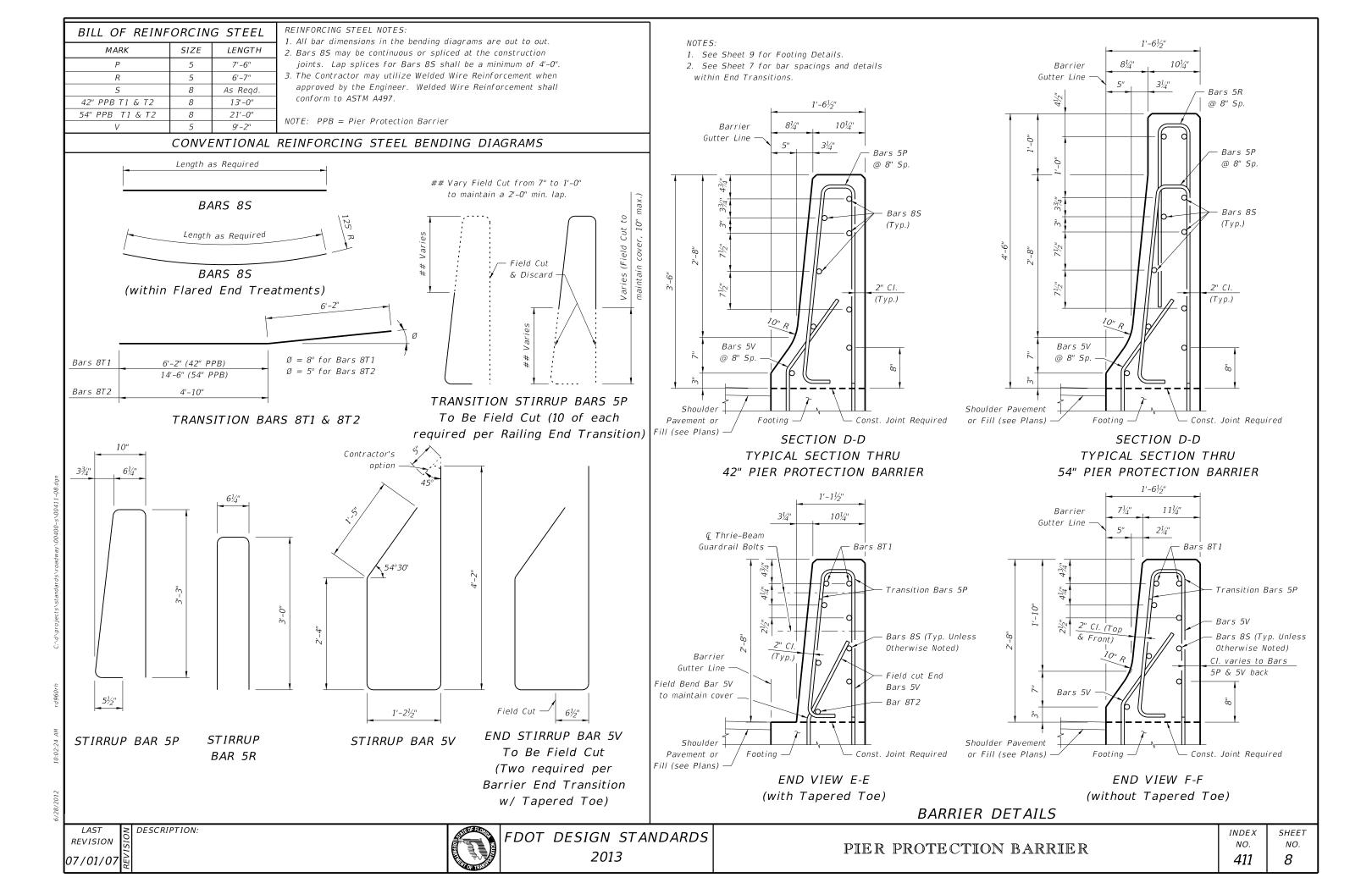
SHEET

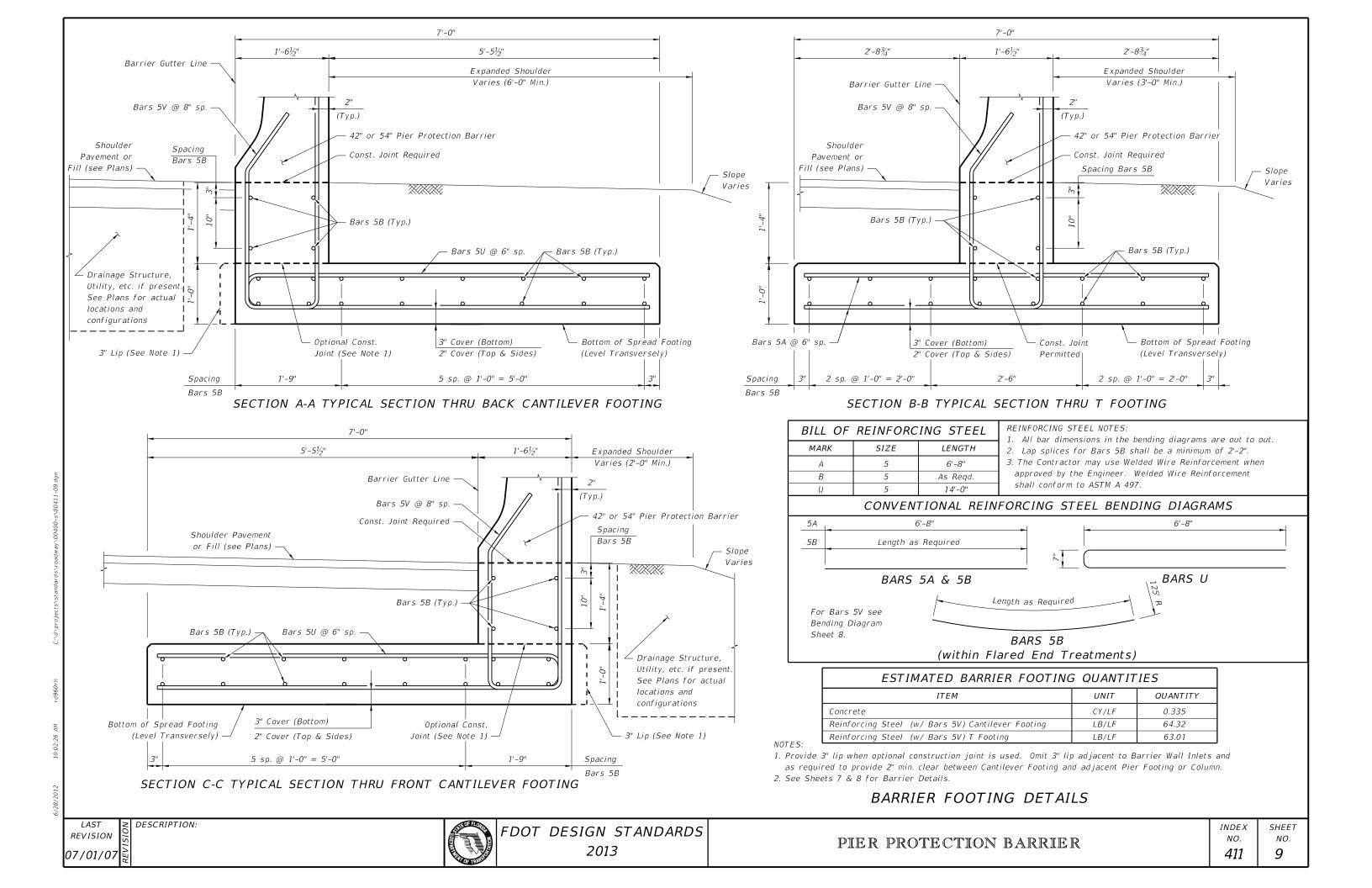
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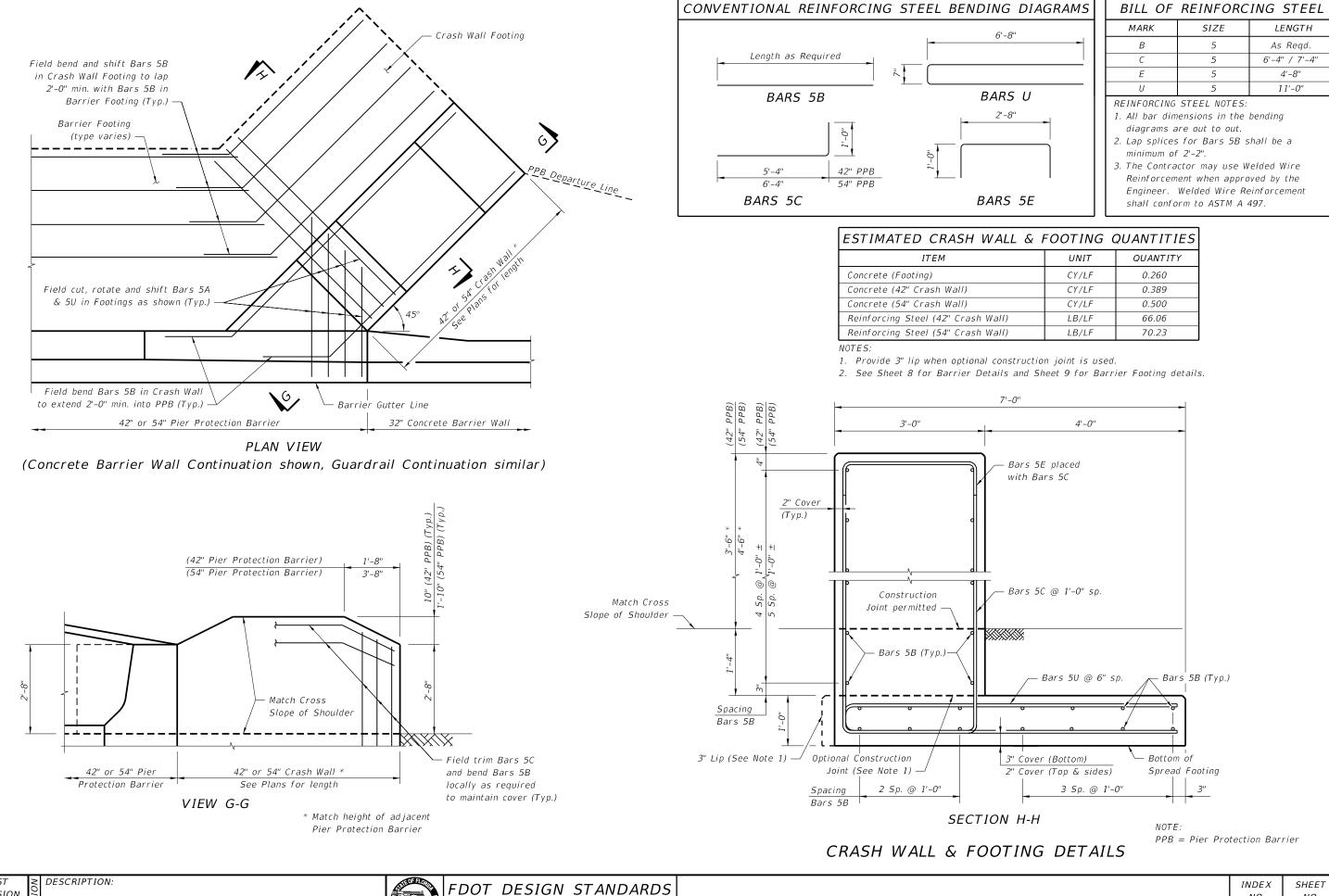
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LAST NOISTON OT 101/07

