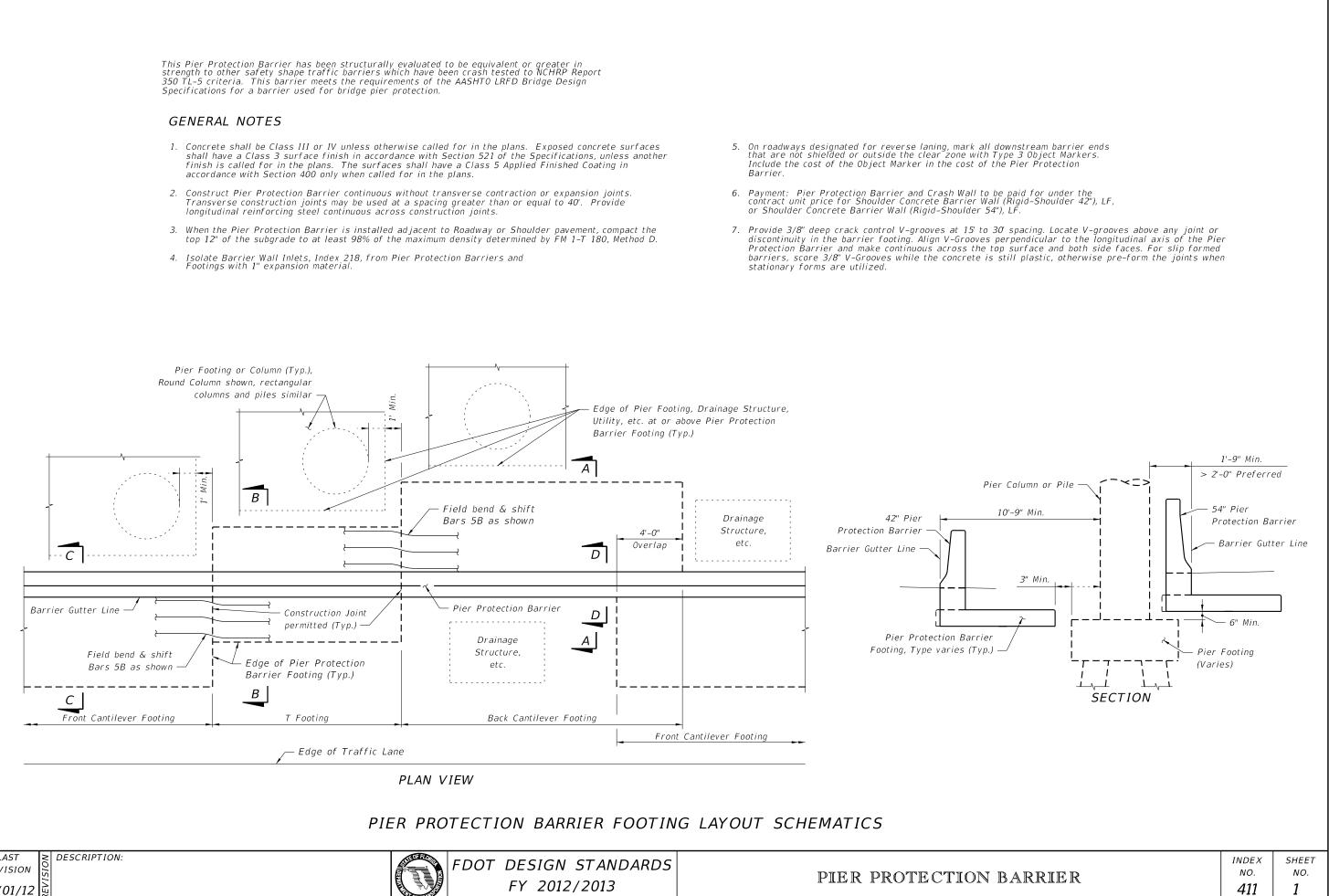
350 TL-5 criteria. This barrier meets the requirements of the AASHTO LRFD Bridge Design Specifications for a barrier used for bridge pier protection.

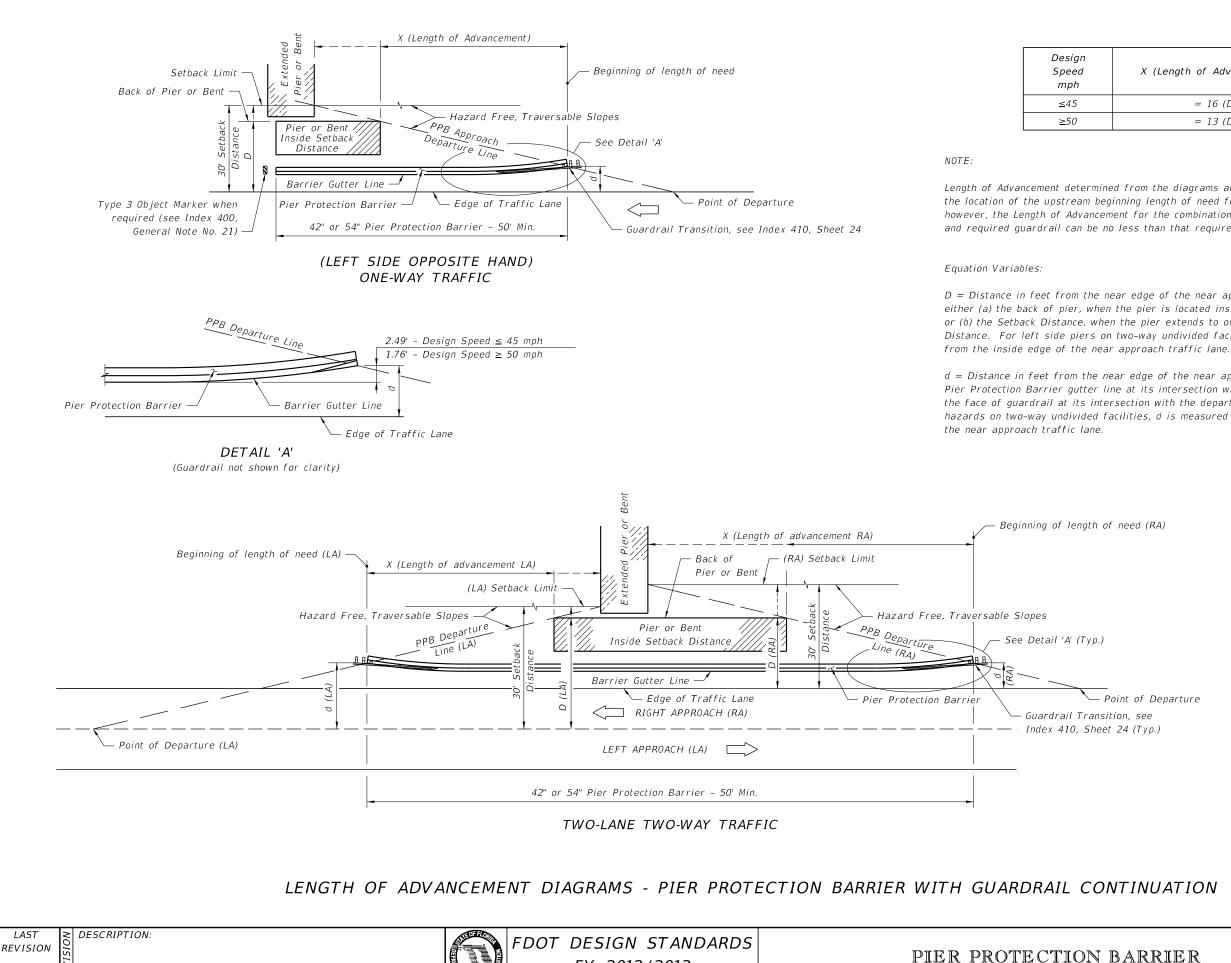
- shall have a Class 3 surface finish in accordance with Section 521 of the Specifications, unless another finish is called for in the plans. The surfaces shall have a Class 5 Applied Finished Coating in accordance with Section 400 only when called for in the plans.
- Transverse construction joints may be used at a spacing greater than or equal to 40'. Provide

- Barrier
- stationary forms are utilized.



LAST REVISION 01/01/12





FY 2012/2013

07/01/09

X (Length of Advancement) Ft.	
= 16 (D-d)	
= 13 (D-d)	

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.

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

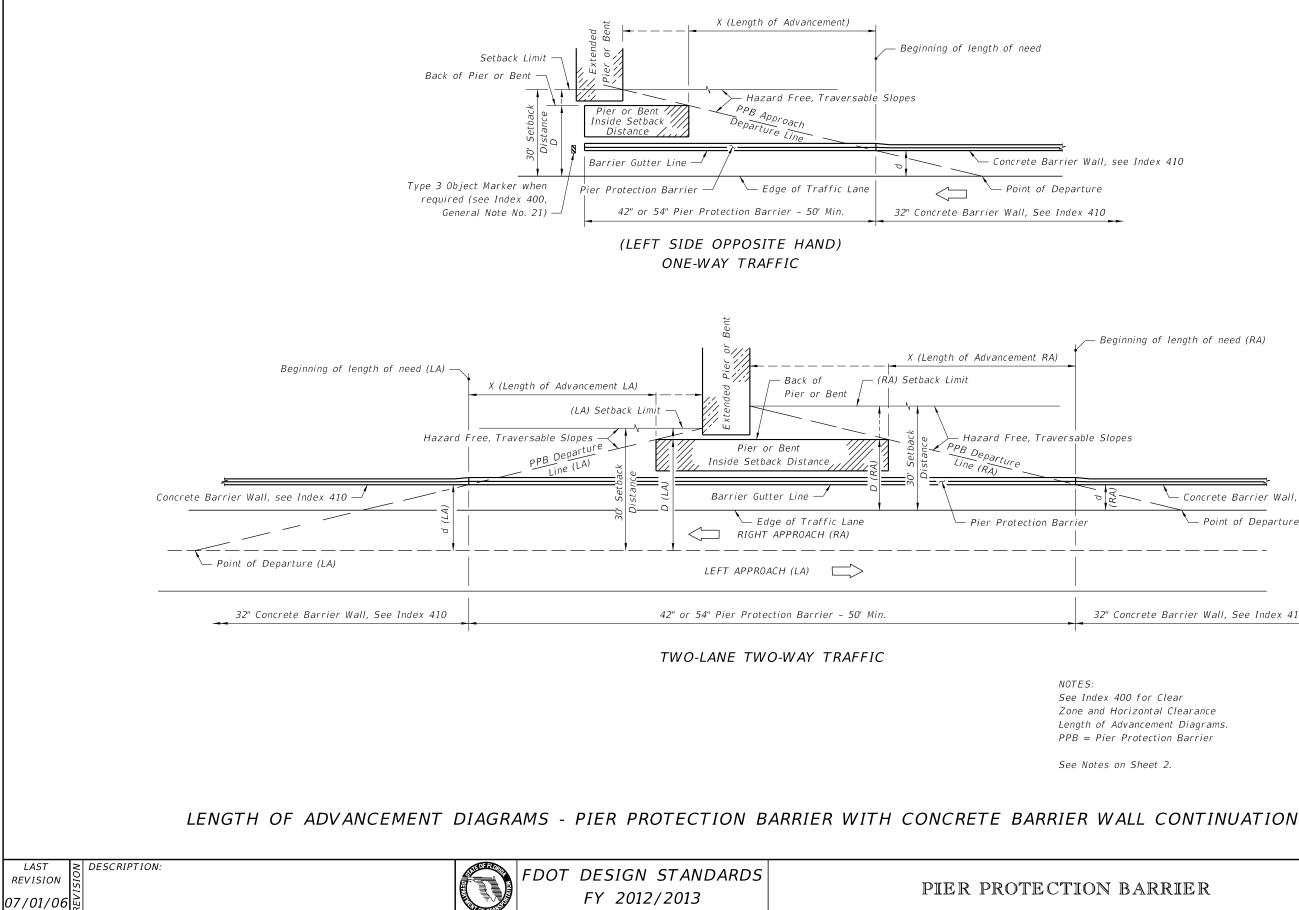
d = Distance in feet from the near edge of the near approach traffic lane to the Pier Protection Barrier gutter line at its intersection with the departure line or the face of guardrail at its intersection with the departure line. For left side hazards on two-way undivided facilities, d is measured from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

— Point of Departure

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

PPB = Pier Protection Barrier

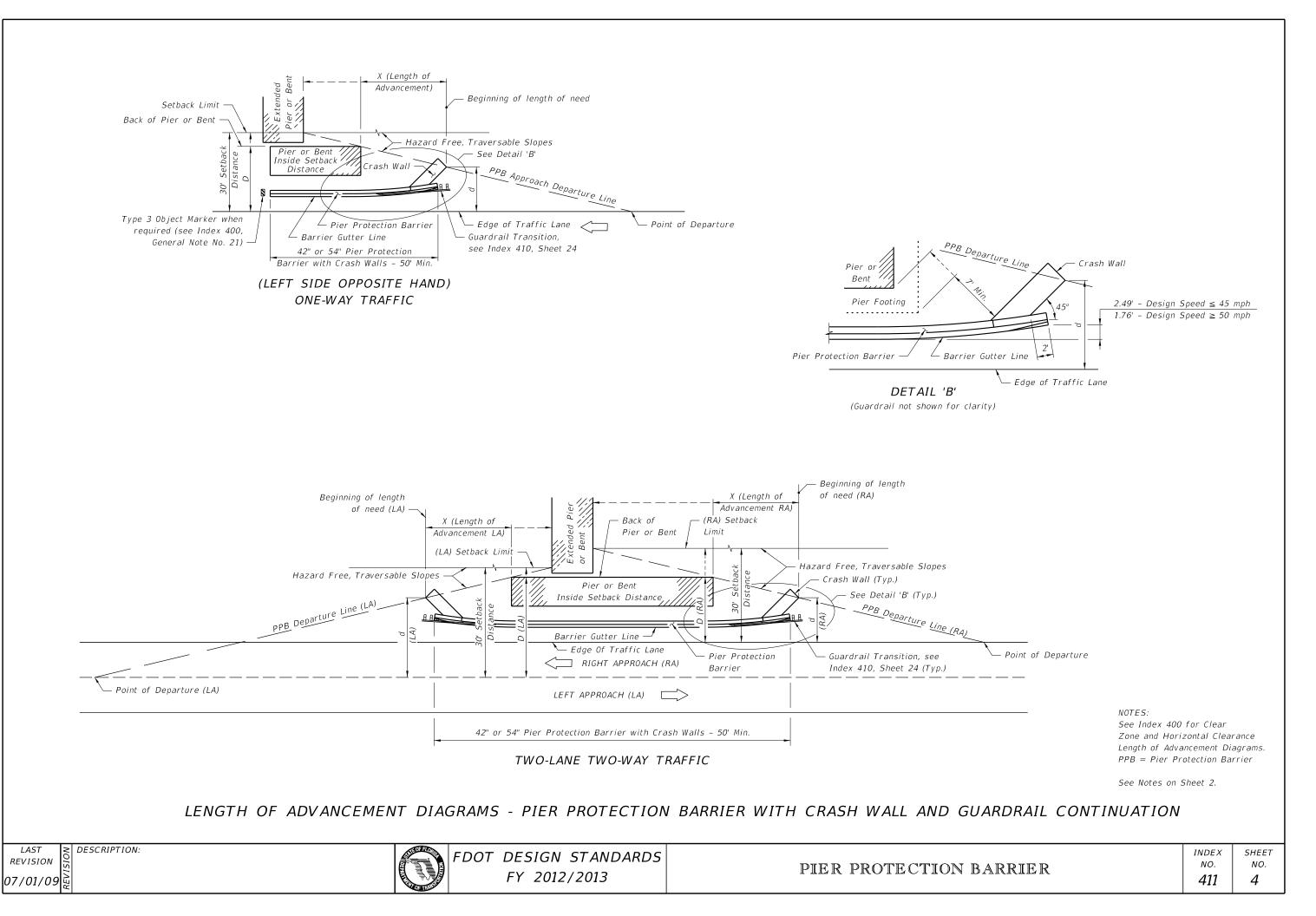
	INDEX	SHEET
BARRIER	NO.	NO.
	411	2

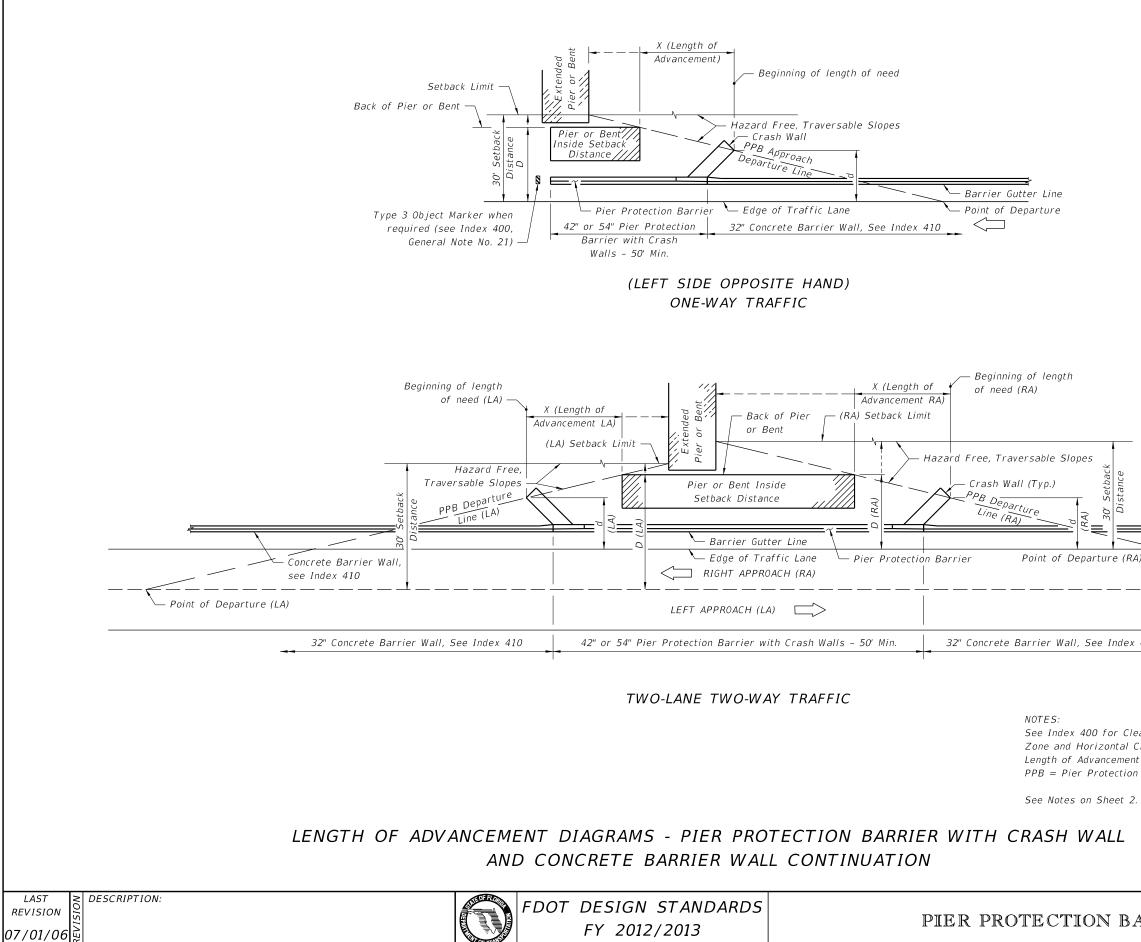


- Beginning of length of need (RA)

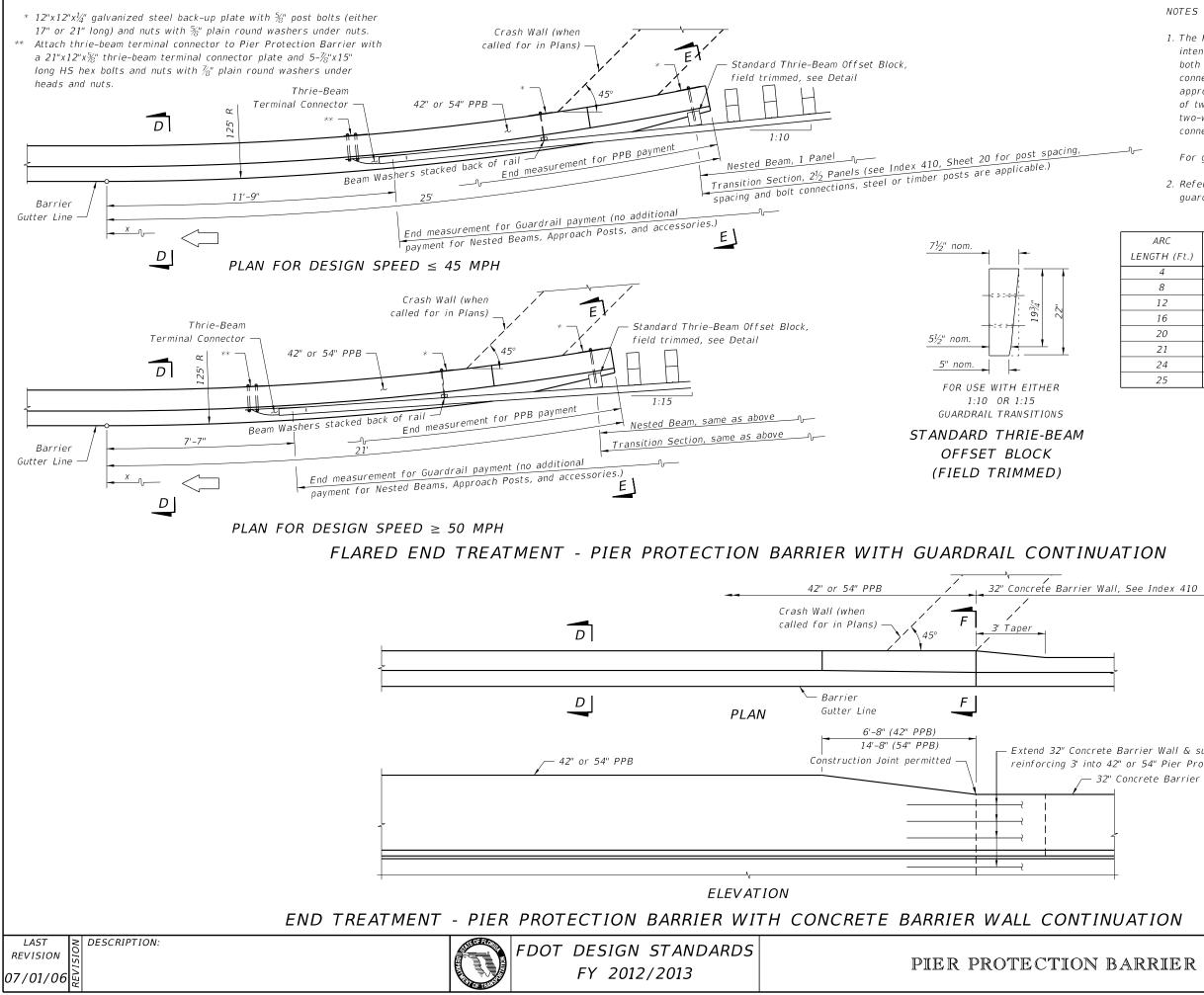
Concrete Barrier Wall, see Index 410
Point of Departure
ncrete Barrier Wall, See Index 410
0 for Clear rizontal Clearance
vancement Diagrams.
Protection Barrier
Sheet 2.

	INDEX	SHEET
BARRIER	NO.	NO.
	411	3
	411	3





RA) — Concrete Barrier Wall, See Index 410		
ex 410		
Clear I Clearance ent Diagrams. ion Barrier 2.		
BARRIER	index no. <b>411</b>	sнеет NO. <b>5</b>



# NOTES

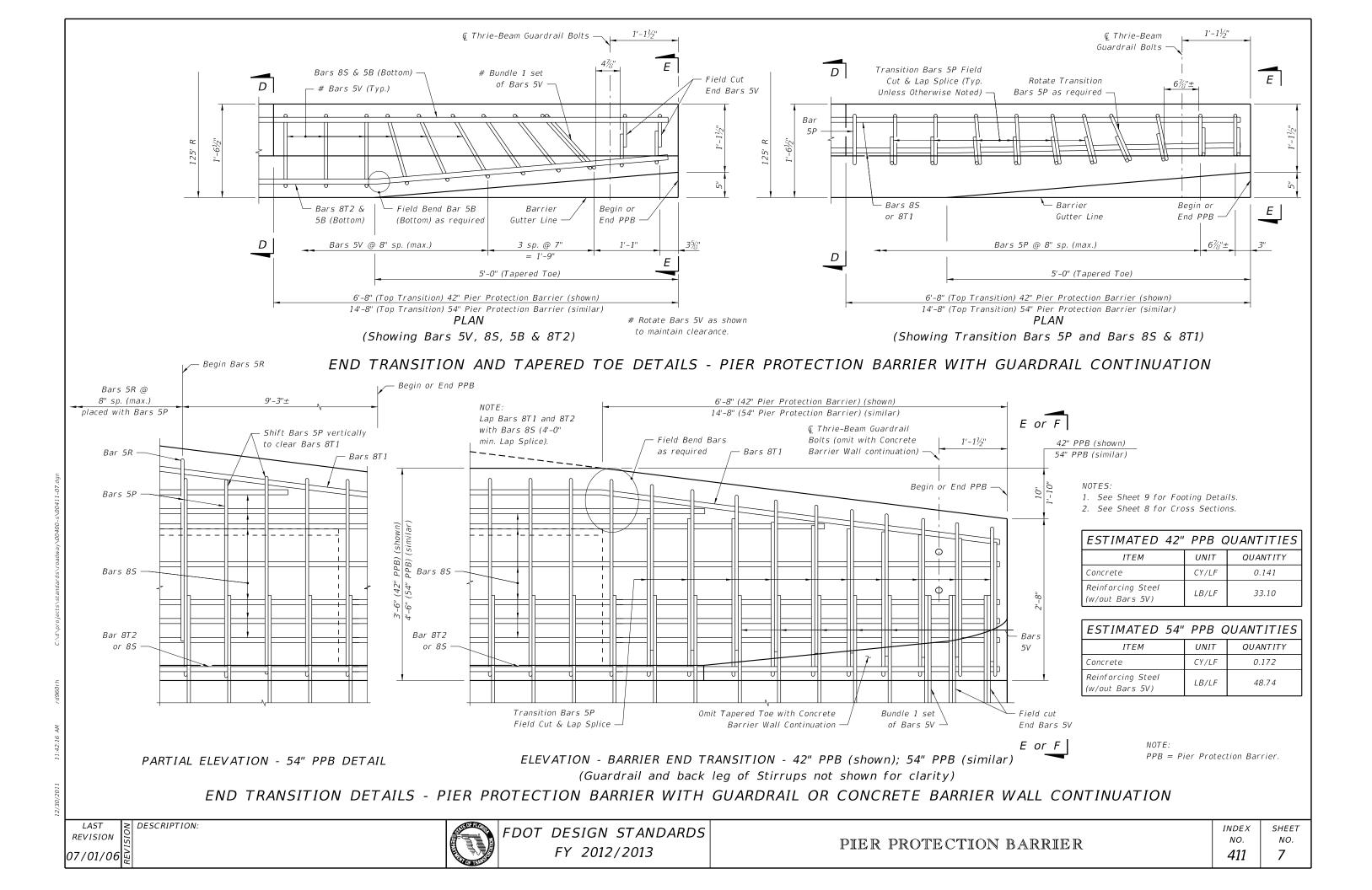
- 1. The Pier Protection Barrier radial segments are intended for use on approach and trailing ends of both one-way and two-way facilities. The guardrail connections shown on this sheet apply to one-way approaches and to the approaching and trailing ends of two-lane two-way facilities. On trailing ends of two-way multilane and one-way facilities the end connection on Index 410, Sheet 2 may be used.
- For guardrail connections, see Index 410, Sheet 20.
- 2. Refer to Index No. 400 Detail J for additional guardrail information.

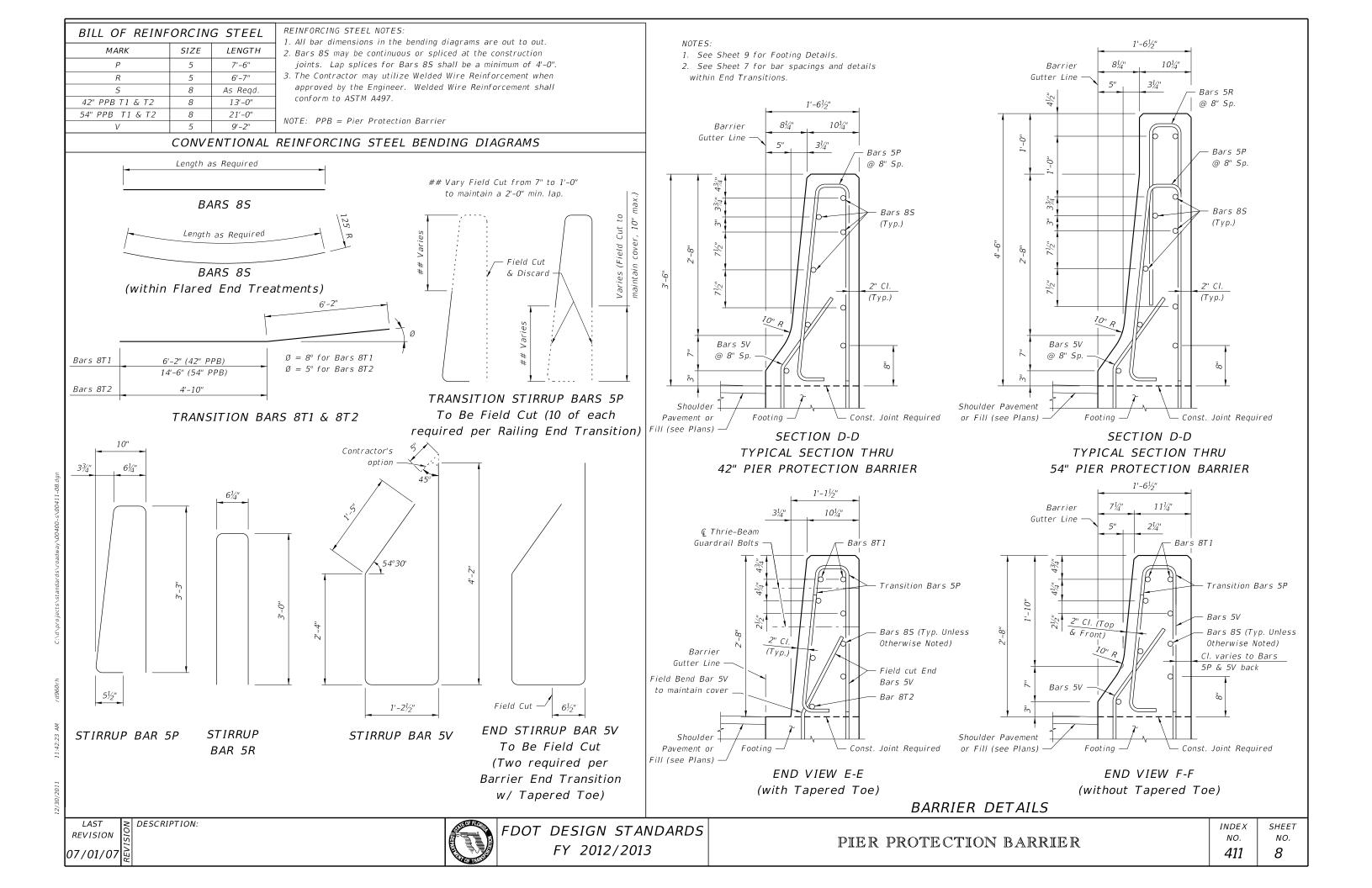
ARC	DISTANCE	OFFSETS "y"	
LENGTH (Ft.)	"x" (Ft.)	"y" (Ft.)	125
4	4.00	0.06	
8	7.99	0.26	Y
12	11.98	0.58	X
16	15.96	1.02	Note:
20	19.91	1.60	Barrier may be
21	20.91	1.76	constructed in chords having
24	23.85	2.30	lengths ≤4 feet.
25	24.83	2.49	

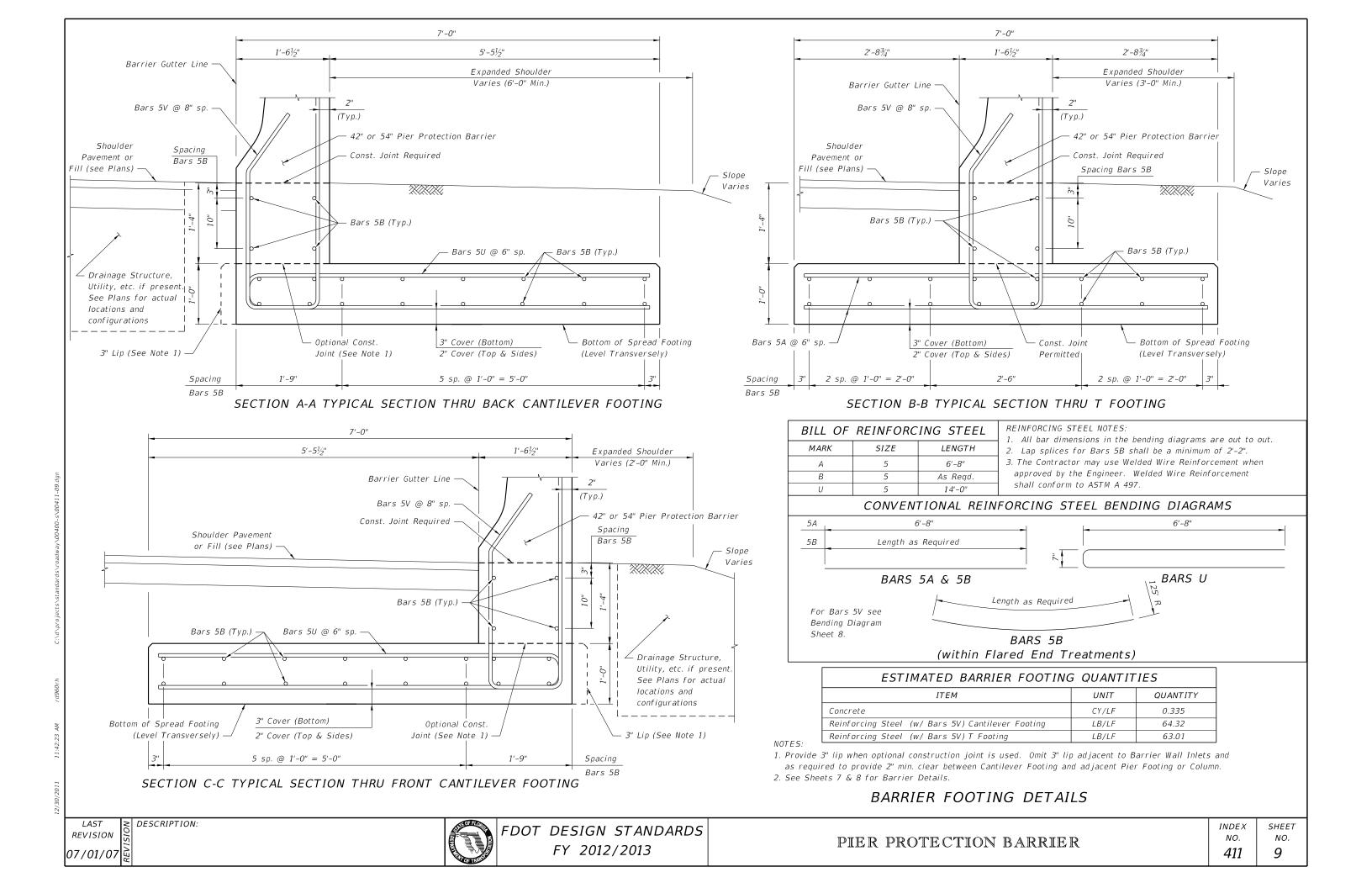
- Extend 32" Concrete Barrier Wall & supporting footing horizontal reinforcing 3' into 42" or 54" Pier Protection Barrier (Typ.) - 32" Concrete Barrier Wall, See Index 410

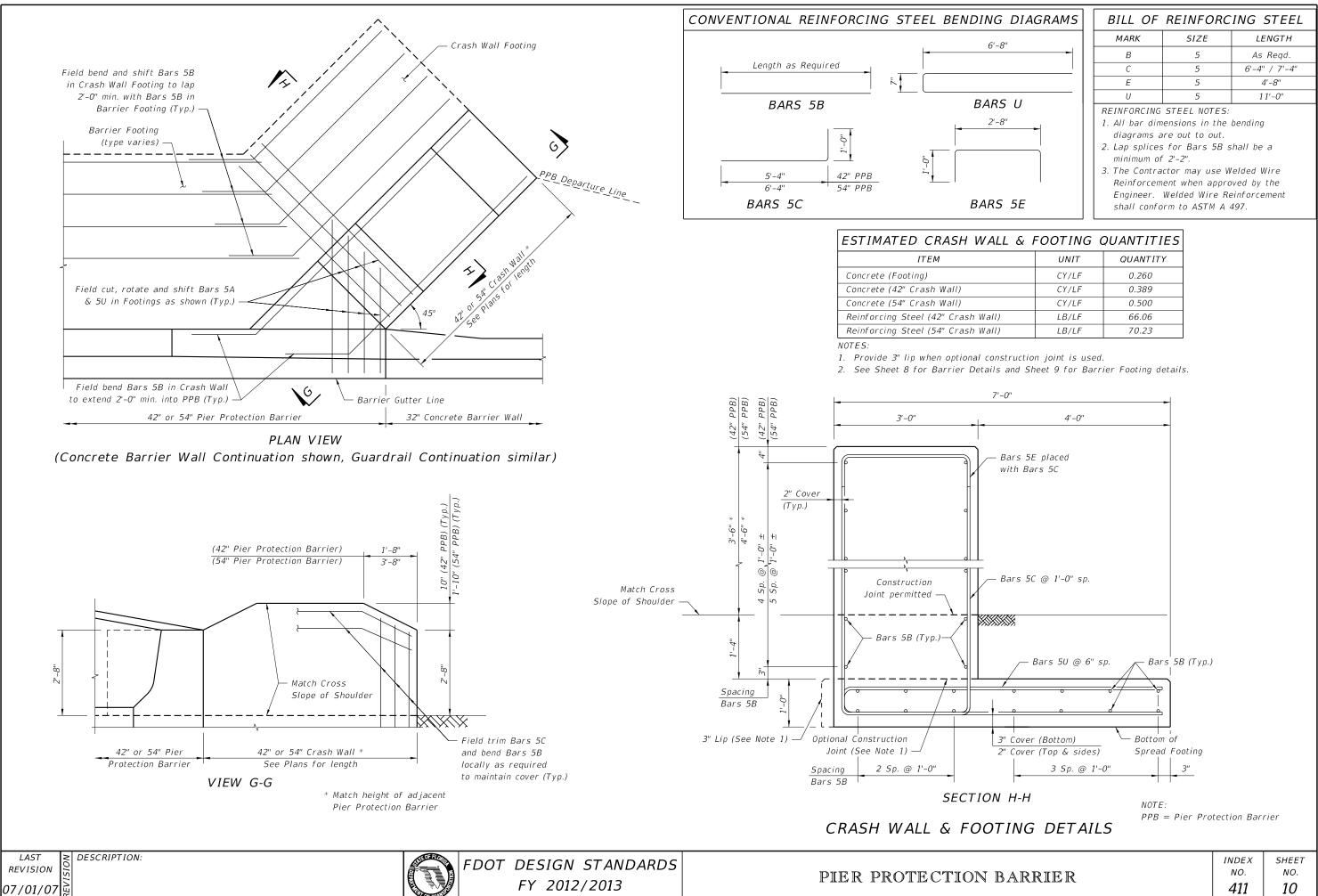
> NOTE PPB = Pier Protection Barrier.

	INDEX NO.	SHEET NO.
BARRIER	ло. л11	6
	411	0









.L &	FOOTING (	QUANTITIES
	UNIT	QUANTITY
	CY/LF	0.260
	CY/LF	0.389
	CY/LF	0.500
	LB/LF	66.06
	LB/LF	70.23

BARRIER	index no. <b>411</b>	sheet no. <b>10</b>