

4501105 PRECAST PRESTRESSED CONCRETE CONSTRUCTION
COMMENTS FROM INTERNAL/INDUSTRY REVIEW

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Comment: (6-4-14, Internal)

For fender piles: According to this spec change, to cut the strands 1- inch below the top of the pile, concrete will be removed around the strands and epoxy patches will be applied in the plant. Here is my concern: After driving, patching will be likely to be required again. How and who will do the patching after driving the piles? Is the Contractor going to be paid for this additional patching after driving? Language may need to be added in 455 to address this.

Response: The note has been on Index 20600 since January 2012; I think we should go ahead with Industry review (Andre agrees). If necessary we can add a note to the Index to repair the epoxy after driving, I'll talk to Juan and Steve when they get back

Anonymous

Comment: (6-12-14)

450-11.6.1 Beams - Beginning of 1st Sentence should read "For beam ends..." not "beams ends"...

Response: Agree. The "s" will be deleted.
Change made.

Dan Hurtado
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Comment: (6-12-14)

1. 450-11.5.2: Recommend changing the sentence, "For fender piles, mechanically cut the top strands at least 1 inch below the concrete surface." Remove the word "top". They likely won't know which end is the top at the casting yard.

Response:

2. Use consistent wording - some places you say "to a minimum of xx inches below the concrete surface..", others you say, "at least xx inches...". Use consistent wording throughout.

Response:

3. 450-11.6, You provide workmanship guidelines for coating beam ends. You should provide similar guidelines for coating pile tips.

Response:

Shailesh Patel

Comment: (7-11-14)

below the concrete surface.¶
→ → **450-11.5.2-Piles:** ~~Mechanically cut strands flush with the concrete surface. except~~
~~For fender piles, then mechanically cut the top strands at least 1 inch below the concrete~~
~~surface.¶~~

Producers typically use a one inch sponge around the cables at the ends to create a small void in which to burn back the cables and then place epoxy in the holes. Unless a large void is made in the ends, there is no physical way that I know of mechanical cutting that deep into the product without causing more damage than intended. Also, the first spiral turn is at one inch.

I interpret “cut the top strands” as cutting strands for the head end. The fender system that we are casting now has some piles with bolt holes and some without. For the piles with bolt holes, that end is the head end. For the piles without bolt holes, the piles are symmetrical. So we need to do the same to both ends or clearly identify the head and tip ends.

Response:
