EXPECTED IMPLEMENTATION JANUARY 2015

DRAFT

450 PRECAST PRESTRESSED CONCRETE CONSTRUCTION.
(REV 7-21-14) (FA 8-12-14) (1-15)

SUBARTICLE 450-11.5 is deleted and the following substituted:

450-11.5 Cutting Strands and Bars: Upon completion of the detensioning operation, cut strands to required length, using an oxygen flame or mechanical cutting device. Do not use electric arc welders to cut bars or strands.

450-11.5.1 Beams: For beam ends that will be permanently encased in concrete diaphragms, cut strands to 2.5 inches plus or minus 0.5 inch beyond the end of the product or as specified in the Plans. For beams with ends that will not be encased in permanent concrete diaphragms, mechanically cut strands a minimum of 1/8 inch below the concrete surface.

450-11.5.2 Piles: Mechanically cut strands flush with the concrete surface. For top (head) of fender piles and pile ends not embedded under final conditions, burn the strands a minimum of 1 inch below the concrete surface and clearly mark the pile to identify the top (head) end.

450-11.5.3 Poles: Mechanically cut strands to a minimum of 1/8 inch below the concrete surface.

SUBARTICLE 450-11.6 is deleted and the following substituted:

450-11.6 Protecting Ends of Strands: Prepare the concrete surfaces and apply Type F-1 epoxy in accordance with the manufacturer's recommendations.

450-11.6.1 Beams: For beam ends that will not be permanently encased in concrete diaphragms, apply two layers of epoxy to the exposed beam ends (including clipped and chamfered surfaces) within seven calendar days of detensioning and prior to development of any corrosion at the ends of strands. The finished thickness of the epoxy coating must be a minimum of 1/16 inch and form a vertical flat plane without deviations or localized depressions from recessed strands or other defects.

450-11.6.2 Piles: Apply epoxy patches to all recessed strands.

450-11.6.3 Poles: Coat entire face of tip (top) and butt (bottom) ends with epoxy.