

4621105 POST-TENSIONING
COMMENTS FROM INDUSTRY REVIEW

David OHagan
State Rdwy. Design Eng.
414-4283
david.ohagan@dot.state.fl.us

Comments:

Throughout the original specification, it is unclear as to what precisely is being drilled into. Is it the original grout inlets/outlets? Is it the duct?

Response: I agree. I believe the “implied intent” is that the inlet/outlet and the duct that the inlet/outlet is attached to are being drilled into.

John Previte
D1 Specifications

Comments:

Consider the following in place of what has been proposed:

If voids are detected in tendon ducts or anchorage sockets during inspection...

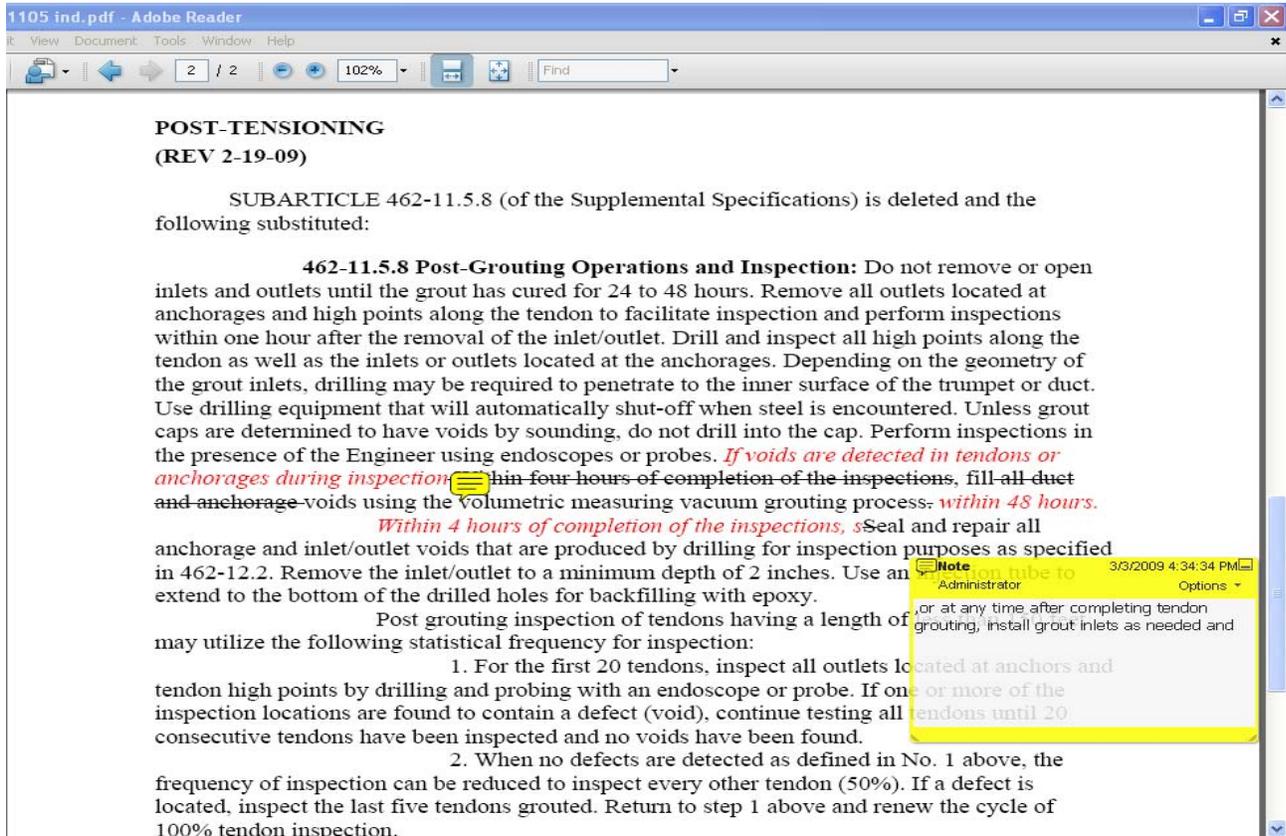
462-11.5.8 Post-Grouting Operations and Inspection: Do not remove or open inlets and outlets until the grout has cured for 24 to 48 hours. Remove all outlets located at anchorages and high points along the tendon to facilitate inspection and perform inspections within one hour after the removal of the inlet/outlet. Drill and inspect all high points along the tendon as well as the inlets or outlets located at the anchorages. Depending on the geometry of the grout inlets, drilling may be required to penetrate to the inner surface of the trumpet or duct. Use drilling equipment that will automatically shut-off when steel is encountered. Unless grout caps are determined to have voids by sounding, do not drill into the cap. Perform inspections in the presence of the Engineer using endoscopes or probes. *If voids are detected in tendons or anchorages during inspection* Within four hours of completion of the inspections, fill all duct and anchorage voids using

Response: Agree with tendon ducts but do not agree with anchorage sockets. Changes have been made to the above spec.

Rico Lepore, P.E.
LeporeR@pbworld.com

Comments:

Attached is a slight modification to the specification for your review. A valuable resource also would be Teddy Theryo of PB who developed some language for the Sunshine Skyway Bridge Repair Project specifications to allow small void repairs to be made with an approved epoxy.



Response: Article is titled "Post-Grouting Ops and inspection", therefore, no need to repeat.

Mario Paredes
352-955-6690
mario.paredes@dot.state.fl.us

Comments:

Text: It appears the following paragraph applies only if voids are not found, but is not clear. If that is the case, paragraph should start with "If no voids are found" "Within 4 hours of completion of the inspections, seal and repair all anchorage and inlet/outlet voids that are produced by drilling for inspection purposes as specified in 462-12.2. Remove the inlet/outlet to a minimum depth of 2 inches. Use an injection tube to extend to the bottom of the drilled holes for backfilling with epoxy."

Response: Agree. Change has been made to the above spec
