

## SECTION 00555 - POST-TENSIONING

*(Follow all instructions. If there are no instructions above a subsection, paragraph, sentence, or bullet, then include them in the project but make necessary modifications to only include project specific specifications. Delete specifications that do not apply to the project.)*

Comply with Section 00555 of the Standard Specifications modified as follows:

**00555.03 Anchorage Devices** - Add the following sentences to the end of the paragraph that begins "Secure all post-tensioned...":

Equip all anchorages with a permanent fiber reinforced plastic grout cap that encloses the whole wedge plate. Provide a grout cap that is vented, bolted to the anchorage and rated for a minimum pressure of 145 psi. Seal the group cap to the anchor plate using either a neoprene gasket or epoxy bonding agent.

**00555.20 Certified Calibrated Jacking Equipment** - In the sentence that begins "Calibrate each jack and..." of the first bullet, replace the words "and provide a certified calibration chart" with the words "and provide a calibration chart certified by an independent testing agency".

In the paragraph that begins "The certified calibration..." replace the words "certified calibration charts" with the words "calibration charts".

**00552.42(b) Duct Alignment** - Replace the horizontal alignment bullet with the following bullet:

- **Horizontal Alignment:**  $\pm 1/4$  inch unless shown otherwise

Add the following subsection:

**00555.42(f) Post-Stressing Survey** - Conduct a visual survey of all surfaces of all stressed concrete elements immediately after tensioning is complete. Search for cracking, distress, or other abnormalities and report findings to the Engineer. Obtain Engineer approval of the post-stressing survey before cutting strand ends.

**00555.43(a) Pre-Grouting Procedure** - Replace this subsection except for the subsection title, with the following:

Cut stressing steel 1 inch beyond wedges or anchor nuts after stressing operations.

**00555.43(c) Grouting Procedure** - Delete the paragraph that begins "Following grouting, fill all...".

Add the following subsection:

**00555.43(d) Anchorage Encasement** - Following grouting, encase grout caps and fill all grouting and post tensioning blockouts with concrete and finish flush. Prepare post

tensioning blockouts according to 00540.43(a) or as approved. Apply an epoxy bonding agent from the QPL to exposed bearing plate and wedge plate surfaces prior to placing concrete in the blockouts.

*(Use the following subsection .80 to list the estimated quantities of materials. Select the type of material used. Delete what does not apply. Delete the parentheses. Obtain the information from the Bridge Designer.)*

**00555.80 Measurement** - Add the following sentence to the end of this subsection:

The estimated quantity of prestressing steel, based on the use of (1/2 Inch 7-wire prestressing strands) (prestressed bars) (cables), is \_\_\_\_\_ pounds.