



## *Florida Department of Transportation*

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MIKE DEW  
SECRETARY

November 17, 2017

Khoa Nguyen  
Director, Office of Technical Services  
Federal Highway Administration  
3500 Financial Plaza, Suite 400  
Tallahassee, Florida 32312

Re: State Specifications Office  
Section: **641**  
Proposed Specification: **6410202 Prestressed Concrete Poles.**

Dear Mr. Nguyen:

We are submitting, for your approval, two copies of the above referenced Supplemental Specification.

The changes are proposed by Andre Pavlov of the State Structures Design Office to update the language for clarification.

Please review and transmit your comments, if any, within two weeks. Comments should be sent via email to [dan.hurtado@dot.state.fl.us](mailto:dan.hurtado@dot.state.fl.us).

If you have any questions relating to this specification change, please call me at 414-4130.

Sincerely,

Signature on file

Dan Hurtado, P.E.  
State Specifications Engineer

DH/dt

Attachment

cc: Florida Transportation Builders' Assoc.  
State Construction Engineer

**PRESTRESSED CONCRETE POLES.**  
**(REV 9-14-17)**

SUBARTICLE 641-2.2 is deleted and the following substituted:

**641-2.2 Camera Lowering Device:** Use lowering devices that are listed on the Department's Approved Product List (APL). Permanently mark the lowering device with manufacturer name or trademark, model or part number, date of manufacture, and serial number.

The lowering device must provide the electrical connection between the control cabinet and the equipment installed on the lowering device without reducing the function or effectiveness of the equipment. The lowering device system support arm must be capable of withstanding service tension and shear up to 1 kip minimum.

The lowering device must include a disconnect unit and power, data, and video cables (as applicable) for connecting equipment, a divided support arm, pole attachment provisions, a rotatable pole-top tenon, and a pole-top junction box, unless otherwise shown in the Plans.

All external components are to be made of corrosion-resistant materials that are powder-coated, galvanized, or otherwise protected from the environment. All finished castings must have a smooth finish free from cracks, blow-holes, shrinks, and other flaws. All roller fairlead frames must be corrosion resistant stainless steel or aluminum. All pulleys used in the lowering device and portable lowering tool must have sealed, self-lubricated or oil-tight bearings, or sintered bronze bushings.

Provide a minimum of 100 feet of composite power and signal cable prewired to the lowering device at the factory unless otherwise shown in the Plans. Splices will not be allowed.

Use only lowering devices designed to withstand the design wind speeds defined in the Department's Structures Manual, [Volume 3](#).

SUBARTICLE 641-4.2 is deleted and the following substituted:

**641-4.2 Footingsoundations:** Provide footingsoundations 3 feet 6 inches in diameter and of the depth specified in the Plans for strain poles used for span wire support of traffic signals. Provide footingsoundations for concrete CCTV poles in accordance with Design Standards, Index No. 18113. Provide footingsoundations for all other pole applications as specified in the Plans. Construct the footingsoundation with concrete as specified in Section 347.

For the excavation and backfill of the footingsoundation, meet the requirements specified in 125-4 and 125-8.2 with the exception of the backfill density. In lieu of the requirements for obtaining the specified density, the Contractor may hand tamp the backfill in 4 inch maximum layers or machine tamp the backfill in 6 inch maximum layers. When performing such operations, ensure that the material is neither dry nor saturated. The Contractor may backfill with concrete.

Use forms, when required, meeting the requirements of 400-5. If the footingsoundation is cast in an oversize hole, place the concrete in the top 6 inches in a form. Trowel all exposed surfaces to a smooth finish.

## **PRESTRESSED CONCRETE POLES.**

**(REV 9-14-17)**

SUBARTICLE 641-2.2 is deleted and the following substituted:

**641-2.2 Camera Lowering Device:** Use lowering devices that are listed on the Department's Approved Product List (APL). Permanently mark the lowering device with manufacturer name or trademark, model or part number, date of manufacture, and serial number.

The lowering device must provide the electrical connection between the control cabinet and the equipment installed on the lowering device without reducing the function or effectiveness of the equipment. The lowering device system support arm must be capable of withstanding service tension and shear up to 1 kip minimum.

The lowering device must include a disconnect unit and power, data, and video cables (as applicable) for connecting equipment, a divided support arm, pole attachment provisions, a rotatable pole-top tenon, and a pole-top junction box, unless otherwise shown in the Plans.

All external components are to be made of corrosion-resistant materials that are powder-coated, galvanized, or otherwise protected from the environment. All finished castings must have a smooth finish free from cracks, blow-holes, shrinks, and other flaws. All roller fairlead frames must be corrosion resistant stainless steel or aluminum. All pulleys used in the lowering device and portable lowering tool must have sealed, self-lubricated or oil-tight bearings, or sintered bronze bushings.

Provide a minimum of 100 feet of composite power and signal cable prewired to the lowering device at the factory unless otherwise shown in the Plans. Splices will not be allowed.

Use only lowering devices designed to withstand the design wind speeds defined in the Department's Structures Manual.

SUBARTICLE 641-4.2 is deleted and the following substituted:

**641-4.2 Foundations:** Provide foundations 3 feet 6 inches in diameter and of the depth specified in the Plans for strain poles used for span wire support of traffic signals. Provide foundations for concrete CCTV poles in accordance with Design Standards, Index No. 18113. Provide foundations for all other pole applications as specified in the Plans. Construct the foundation with concrete as specified in Section 347.

For the excavation and backfill of the foundation, meet the requirements specified in 125-4 and 125-8.2 with the exception of the backfill density. In lieu of the requirements for obtaining the specified density, the Contractor may hand tamp the backfill in 4 inch maximum layers or machine tamp the backfill in 6 inch maximum layers. When performing such operations, ensure that the material is neither dry nor saturated. The Contractor may backfill with concrete.

Use forms, when required, meeting the requirements of 400-5. If the foundation is cast in an oversize hole, place the concrete in the top 6 inches in a form. Trowel all exposed surfaces to a smooth finish.