

RICK SCOTT GOVERNOR 605 Suwannee Street Tallahassee, FL 32399-0450 MIKE DEW SECRETARY

October 27, 2017

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

Re: State Specifications Office

Section: 955

Proposed Specification: 9550000 Timber Treatment (including Treating Materials).

Dear Mr. Nguyen:

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

The changes are proposed by Steve Duke of the State Materials Office to update the language.

Please review and transmit your comments, if any, within two weeks. Comments should be sent via email to 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

# TIMBER TREATMENT (INCLUDING TREATING MATERIALS). (REV 9-7-17)

SECTION 955 is deleted and the following substituted:

# SECTION 955 TIMBER TREATMENT (INCLUDING TREATING MATERIALS)

### 955-1 General.

The work specified in this Section is the treating of structural timber, timber piling and timber posts. The method of treatment for all such timber materials shall be in accordance with AASHTO M 133, or American Wood Protection Association (AWPA) Use Category System (UCS) - U1, with the exceptions and additions as specified herein.

### 955-2 Preservative.

**955-2.1 Salt or Brackish Water Use:** The treating of Southern Yellow Pine (SYP) lumber or timber for use in salt or brackish water environments shall be done with Chromated Copper Arsenate (CCA) in accordance with AWPA U1.

955-2.2 Above Ground or Ground Contact and Fresh Water Immersion Use: The treating of SYP lumber and timber for above ground or ground contact and fresh water immersion applications, shall be done with, Ammoniacal Copper Zinc Arsenate (ACZA), Copper Azole (CA), Micronized Copper Azole (MCA), Alkaline Copper Quat (ACQ), Micronized Copper Quat (MCQ), or CCA, with the following exceptions:

Treatment of the wood products of the pedestrian bridges, wood rails at buildings or rest areas, and fence posts shall be done either with CA, MCA, MCO, or ACQ.

### 955-3 Process.

All timber and lumber items shall be treated in accordance with AWPA T1.

## 955-4 Requirements for Preservative Materials.

ACQ, MACQ, CCA, CA, MCA and ACZA shall be in accordance with the appropriate AWPA P Standard. MCQ and MCA shall be in accordance with the appropriate ICC Evaluation Service (ICC-ES) ESR Report.

## 955-5 Requirements for Retainmenention.

**955-5.1 Piling:** All pilings shall be treated in accordance with AWPA U1.

**955-5.2 Structural Timber and Sheet Piles:** All structural timber and sheet piles shall be treated in accordance with AWPA U1.

**955-5.3 Posts:** All posts shall be treated in accordance with AWPA U1.

**955-5.4 Determination of Retention:** Retention shall be determined by assay performed and certified by the treating company in accordance with the applicable AWPA standards.

## 955-6 Penetration Requirements.

**955-6.1 For Structural Timber:** The penetration of the treatment shall be in accordance with AWPA T1, with the exceptions as specified herein.

955-6.2 For Round Piles and Fence Posts: Any round pile or post, which does not meet AWPA T1 will be rejected or shall be retreated to meet such penetration requirement.

955-6.3 Retreatment: The necessity for retreatment of structural timber, piling and posts shall be avoided as far as practicable and if it becomes apparent that due measures are not being taken to prevent such necessity, the acceptance of retreated materials may be withdrawn.

When retreatment is necessary the maximum limits for temperature of steam or preservative, and for preservative pressure, which apply to the original treatment shall not be exceeded during the retreatment.

955-6.4 Determination of Penetration: Sapwood penetration shall be determined by taking at least one increment boring core from each pile and cap, and other pieces of similar dimensions and, for other sizes of material, at least one boring from the charge for each 1,000 FBM in the charge. All bored holes shall be immediately plugged, with tight fitting treated plugs.

## 955-7 Handling Waterborne Preservative Treated Piling.

In handling of piles that have been treated with chromated copper arsenate (CCA) or ammoniacal copper zinc arsenate (ACZA), cable slings shall be used. Mechanical grabbers or pointed tools shall not be permitted. Rough or careless handing shall be avoided at all times.

# 955-8 Identification of Treating Plants for Round Piling.

The treating plant shall brand, or place a distinctive permanent mark, on each round pile, approximately 6 feet from the butt end, such that the plant responsible for the treatment can be readily determined at any time during the service life of the piling.

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## 955-4 Requirements for Preservative Materials.

ACQ, CCA, CA, MCA and ACZA shall be in accordance with the appropriate AWPA P Standard. MCA shall be in accordance with the appropriate ICC Evaluation Service (ICC-ES) ESR Report.

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