



*Florida Department of Transportation*

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**M E M O R A N D U M**

**DATE:** August 3, 2023

**TO:** Will Watts, Dan Hurtado, Stefanie Maxwell, Tim Lattner, Patrick Overton, Larry Ringers, Arthur Berger, Michael Shepard, Sue Zheng, Rhonda Taylor, Will Potter, Ben Goldsberry, Rudy Powell, Lance Grace, Scott Arnold, Rick Jenkins, Derwood Sheppard

**CC:** Daniel Strickland, State Specifications Engineer; Ananth Prasad, FTBA

**FROM:** Darla Hunsicker, Specifications Development Coordinator

**SUBJECT: Proposed Specification: 5210300 Concrete Barriers, Traffic Railings, and Parapets.**

Attached for your review and comments is a copy of the subject proposed Specification.

The changes are proposed by Joshua Turley to add a precast version of the Concrete Noise Wall Barrier to the existing Standards.

The proposed changes are also associated with Standard Plans Indices 521-510 and 521-511 located at the following link: <https://www.fdot.gov/design/standardplans/irr/Internal-Review-Current>.

Please review and offer your comments within ten business days so that we may continue with the review process.

Attachment

**CONCRETE BARRIERS, TRAFFIC RAILINGS, AND PARAPETS.**  
**(REV 6-29-23)**

ARTICLE 521-3 is deleted and the following substituted:

**521-3 Requirements.**

**521-3.1 Precast Temporary Concrete Barrier:** Meet the requirements of 102-9.5.

**521-3.2 Precast Noise Wall Barrier Requirements:** Obtain precast concrete components from a plant that is currently on the Department's Production Facility Listing. Producers seeking inclusion on the list must meet the requirements of Section 105.

Do not accept products that are not permanently and clearly stamped on the tongue and groove portion of the panel and posted with the type, date cast, project number, and the manufacturer's name or symbol by the Producer.

**521-3.2.1 Casting Tolerances:** Maintain the following casting tolerances:

1. Overall Height and Width: +/- 1/4"
2. Thickness: +/- 1/4"
3. Out of Square: 1/8" per 6 ft., but not more than 3/8" total along any side
4. Warping: 1/16" per foot distance to nearest corner
5. Bowing: 1/240 segment dimension
6. Surface Smoothness: +/- 1/16"
7. Tongue and groove joint dimensions: +/- 1/4"

**521-3.2.2 Shop Drawing Submittal:** Submit shop drawings for precast elements, when required, in accordance with Section 5, showing a plan and elevation with the following project specific information:

1. Begin and end wall stations with offsets
2. Horizontal and vertical alignments of the wall
3. Segment locations and lengths
4. Segment locations for:
  - a. Graphic details for architectural inlays as required
  - b. Special detailing for drainage requirements
5. Elevations of top of segments
6. Existing ground and finished grade elevations
7. Top panel to precast base grouted and dowelled joint dowel and sleeve locations
8. Non-standard precast component details
9. Lifting devices