## - ORIGINATION FORM -

# Proposed Revisions to a Standard Plans Index

(Please provide all information — Incomplete forms will be returned)

Contact Information:Standard Plans:Date: January 13, 2022Index Number: 455-440Originator: Joshua TurleySheet Number (s): 1 and 2 of 4Phone: (850) 414-4475Index Title: PRECAST CONCRETE SHEET PILE WALLEmail: joshua.turley@dot.state.fl.us(CFRP/GFRP & HSSS/GFRP)Summary of the changes:Index Title: PRECAST CONCRETE SHEET PILE WALL

Sheet 1: Changed Class V (Special) concrete to Class V.

Sheet 2: Updated Dimension B which takes into account the latest FRP bar bending radius's; Removed note 5 which was only required because of dimension B; Deleted the "See Note 5" reference in SECTION A-A, B-B, and C-C.

### Commentary / Background:

Sheet1: Department has eliminated Class V (Special)

Sheet 2: In the early versions of the FRP Bar Bending Index (D21310) we had a standard minimum inside pin diameter of 4.5" (5.5" out-to-out dimension B) for #4 GFRP bars, which did not accommodate a 10" Sheet pile thickness with 3" cover. Since then, under Index 415-010 the FRP Bar Bending Standard dimensions for a #4 GFRP bar have been standardized/updated to the AASHTO standard minimum pin radius of 6-bar diameters (= 3" diameter). This now allows us to keep the standardized layout of 3" concrete cover.

### Other Affected Offices / Documents: (Provide name of person contacted)

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  - Redline Mark-ups
    - Revised or Proposed Standard Plan Instruction (SPI)
  - Other Support Documents

### Implementation:

Design Bulletin (Interim)

- DCE Memo
- Program Mgmt. Bulletin
- FY-Standard Plans (Next Release)



11/01/20

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torced concrete construction. th the requirements of the				
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merock aggregate concrete				
requirements of Specification Section 932.				
HSSS, Grade 240 strand, meeting the 933.				
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ng: 4000 psi minimum 700 psi minimum 450 psi tension with 1.5 times pile self weight for single-point pick-up at f'c ≥ 6000 psi				
ve strength f'ci ≥ 4000 psi required for two-point pick-up; r single-point pick-up.				
ne "X" dimension.				
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STANDARD PLANS

11/01/22

(CFRP/GFRP & HSSS/GF)

4000 psi minimum 700 psi minimum 450 psi tension with 1.5 times pile self weight for single-point pick-up at  $f'c \ge 6000$  psi

Pick-up, Storage and Transportation: Minimum compressive strength f'ci  $\geq$  4000 psi required for two-point pick-up;  $f'c \ge 6000$  psi for single-point pick-up.

The 2'-6" Sheet Pile dimension is nominal. This dimension may be shortened by the Manufacturer up to  $\frac{1}{2}$ " to allow for Sheet Pile fit-up in its final position. Minimum Sheet Pile width is 2'-5½". No changes shall be made

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