Origination Form

Proposed Revisions to a Standard Plans Index

Originator:	Turley, Joshua	Index Number:	400-010
Date:	4/22/2025	Sheet Number(s):	all
E-mail:	Joshua.Turley@dot.state.fl.us	Index Title:	CANTILEVER RETAINING WALL (C-I-P)

Summary of the changes:

Redeveloped Index (General cleanup and rearrangement of details).

Sheet 1: Updated Notes to General Notes; Added new Note1 "Work with Specifications 400 and 415. See the Retaining Wall Control Drawings and Data Tables in the Plans"; Added Isometric View; Updated Bar M to match VIEW A-A detail.

Sheet 2: Added an alternate footing step detail "Option II; Updated Notes formatting".

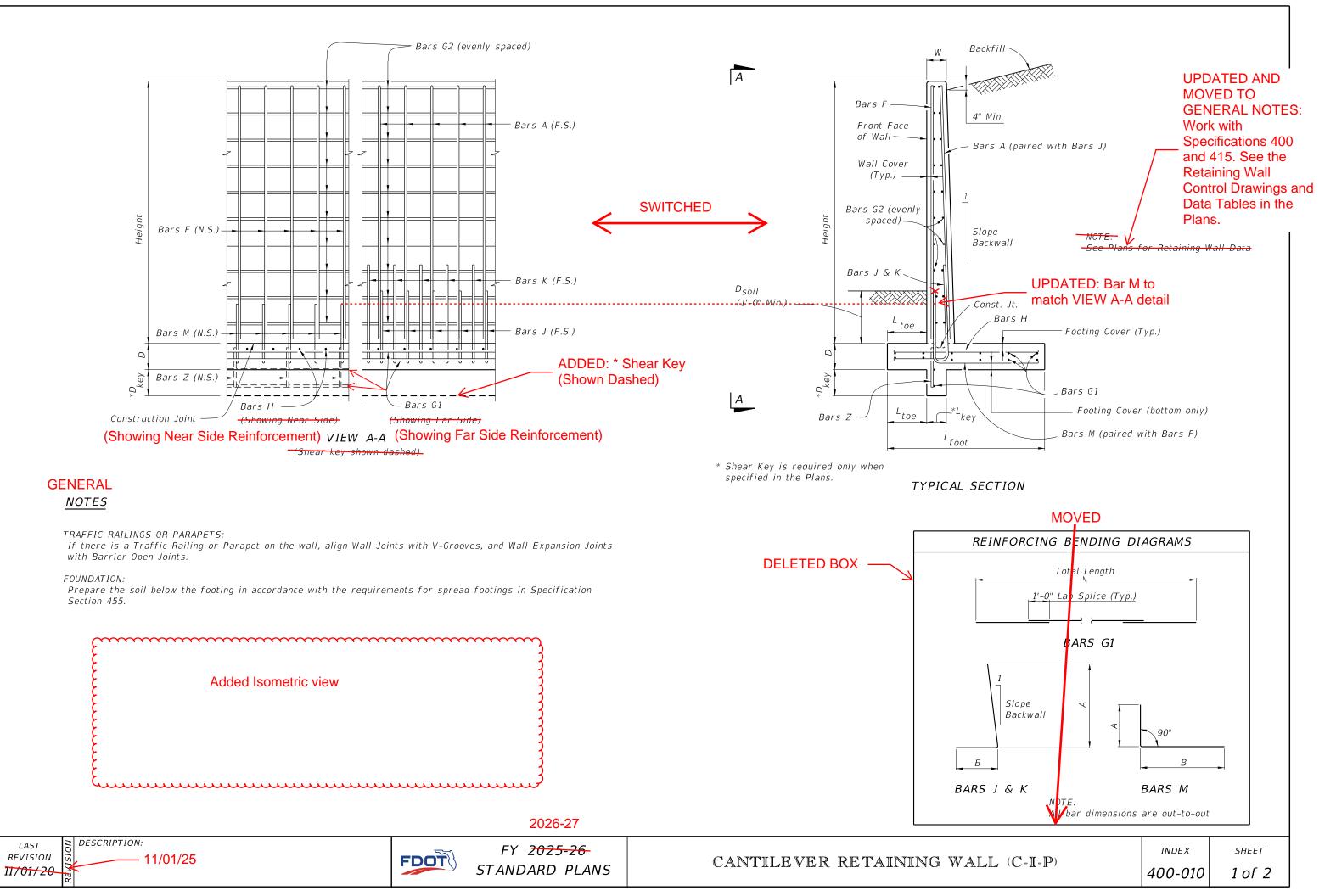
Commentary/Background:

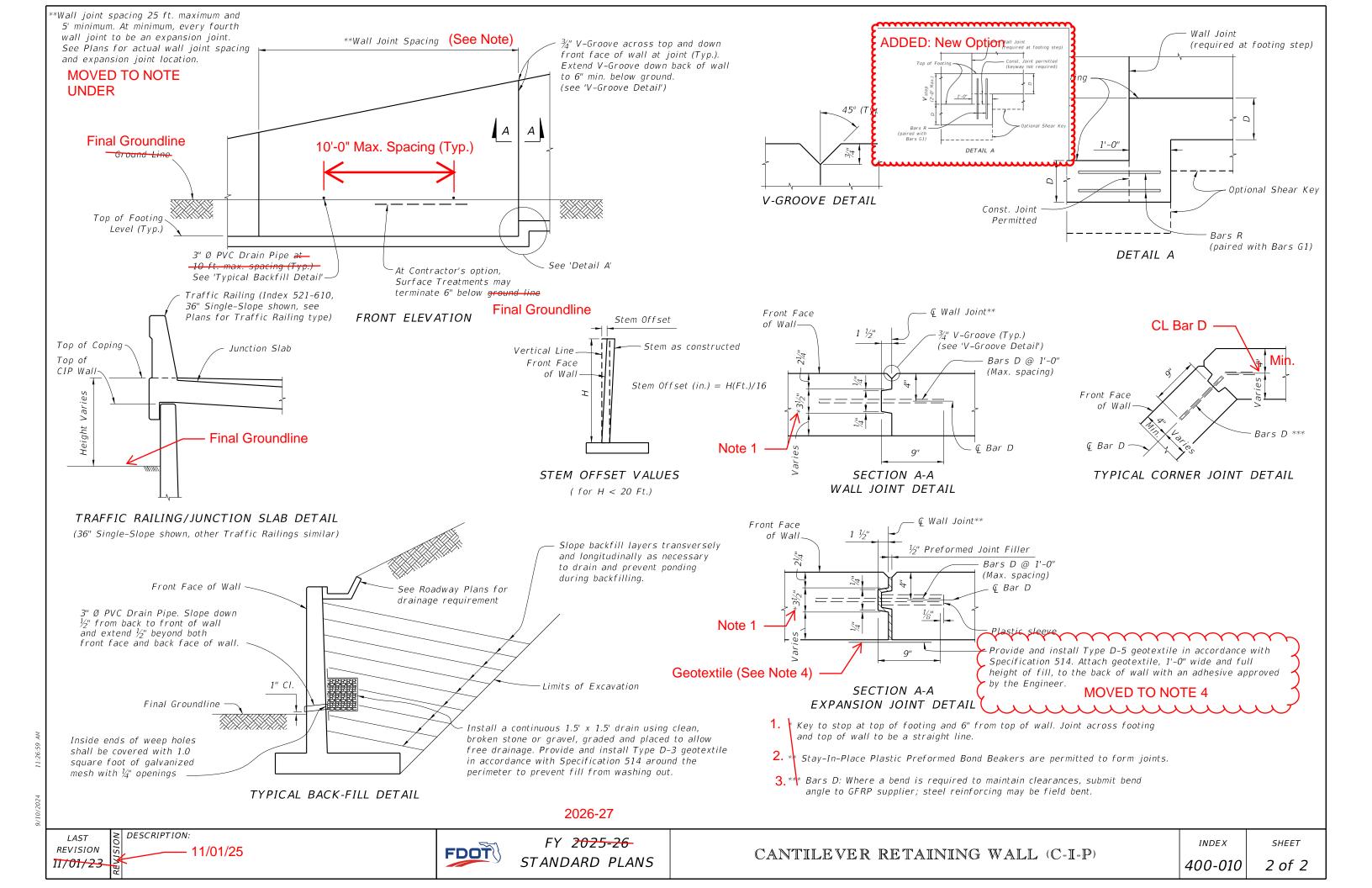
Contractors requested an option to pour the footing over top of the lower footing. This detail was previously in the 2017-2018 book but was changed to the newer detail to manage potential cracking better. However, the new detail is more difficult to construct because its hard to maintain a vertical slope on the soil in order to cast the concrete. We've never had reports the older detail failed so we are adding it back in a a more constructible option.

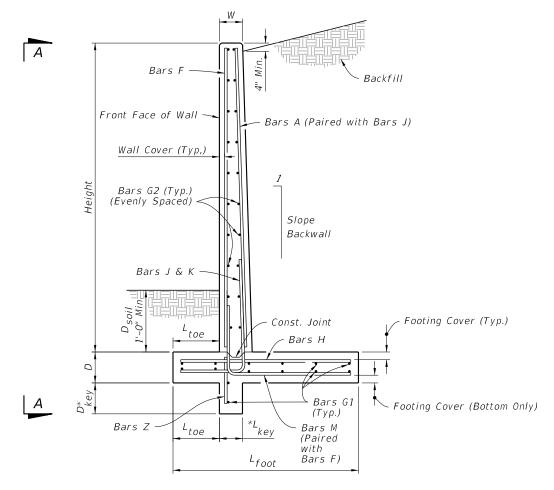
Other Affected Documents/Offices	Person Contacted	Affected (Yes/No)
Other Standard Plans		No
FDOT Design Manual		No
Standard Specifications		No
Basis of Estimates Manual		No
Approved Product List		No
Construction Office		No
Maintenance Office		No

Implementation

["FY-Standard Plans (Next Release)"]







*Shear Key is required only when specified in the Plans.

Front Face of Wall Footer Shear Key

= ISOMETRIC VIEW ===

Bars F (N.S.) Bars M (N.S.) Const. Joint Bars Z (N.S.) Bars Z (N.S.) Bars Bars Z (N.S.) (Showing Near Side Reinforcement) (Showing Far Side Reinforcement)

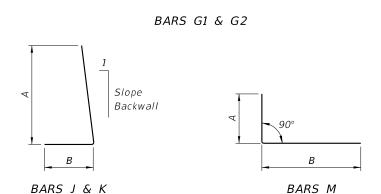
Bars G2 (Evenly Spaced)

GENERAL NOTES:

- 1. Work with Specifications 400 and 415. See the Retaining Wall Control Drawings and Data Tables in the Plans.
- 2. TRAFFIC RAILINGS OR PARAPETS:

 If there is a Traffic Railing or Parapet on the wall, align Wall Joints with V-Grooves, and Wall Expansion Joints with Barrier Open Joints.
- 3. FOUNDATION:

 Prepare the soil below the footing in accordance with the requirements for spread footings in Specification 455.



= V I EW A-A ====

Total Length

1'-0" Min. Lap Splice (Typ.)

NOTE: All bar dimensions are out-to-out

= REINFORCING BENDING DIAGRAMS =

LAST NO IS 11/01/25

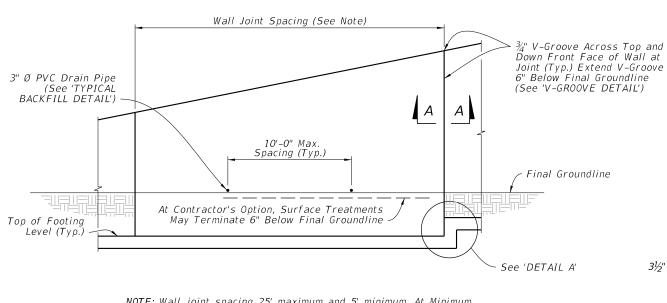
FDOT

FY 2026-27 STANDARD PLANS

CANTILEVER RETAINING WALL (C-I-P)

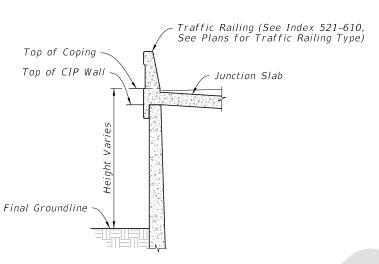
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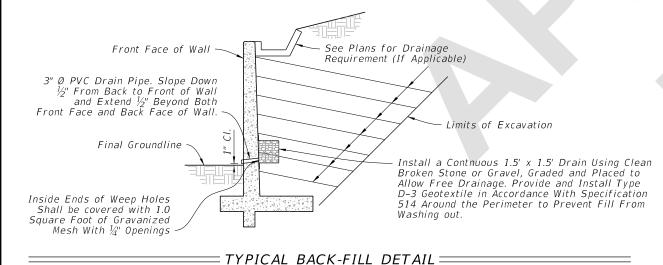
NOTE: Wall joint spacing 25' maximum and 5' minimum. At Minimum, every fourth wall joint to be an expansion joint. See plans for actual wall joint spacing and expansion joint locations.

= FRONT ELEVATION =



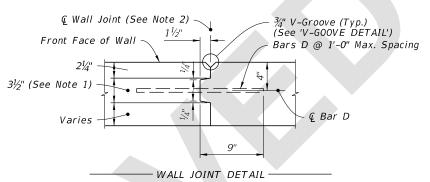
TRAFFIC RAILING/JUNCTION SLAB DETAIL:

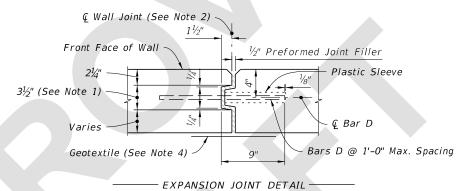
(36" Single-Slope Shown, Other Traffic Railings Similar)

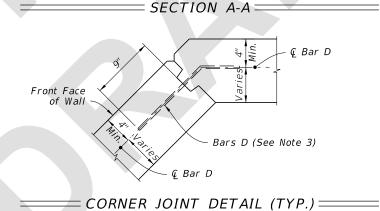


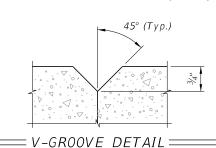
NOTES:

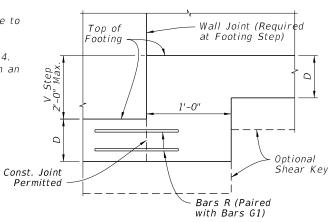
- 1. Key to stop at top of footing and 6" from top of wall. Joint across footing and top of wall to be a straight line.
- 2. Stay-In-Place Plastic Preformed Bond Breakers are permitted to form joints.
- 3. Bars D: Where a bend is required to maintain clearances, submit bend angle to GFRP supplier; steel reinforcing may be field bent.
- 4. Provide and install Type D-5 geotextile in accordance with Specification 514. Attach geotextile, 1'-0" wide and full height of fill. to the back of wall with an adhesive approved by the Engineer.

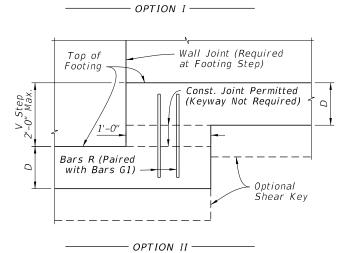




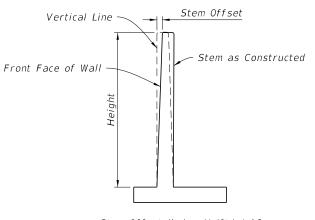












Stem Offset (in.) = H (ft.) / 16

STEM OFFSET VALUES = (For Height < 20 Ft.)

REVISION 11/01/25

DESCRIPTION:

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SHEET