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Proposed Revisions to a Standard Plans Index

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

Contact In	formation:	Standard Plans:
Originator: Jo Phone: (850 Email: joshu	ber 21, 2021 oshua Turley 0) 414-4475 a.turley@dot.state.fl.us of the changes:	Index Number: 455-001 Sheet Number (s): 1 Index Title: Square Prestressed Concrete Piles Typica Details and Notes
Changed (Class V (Special) concrete to Class V.	
<u>Comment</u>	ary / Background:	
Other Affe	ected Offices / Documents: (Provide name	of person contacted)
Yes No V V V V V V V V V V V V V V V V V V	Other Standard Plans — FDOT Design Manual — Basis of Estimates Manual — Standard Specifications — Approved Product List — Construction — Maintenance —	
Originatio	on Package Includes:	Implementation:

Contact the Roadway Design Office for assistance in completing this form

Design Bulletin (Interim)

✓ Program Mgmt. Bulletin

FY-Standard Plans (Next Release)

☐ DCE Memo

(Email or hand deliver package to Rick Jenkins)

Redline Mark-ups

Other Support Documents

Revised SPI

Proposed Standard Plan Instruction (SPI)

Yes N/A

Email to: Rick Jenkins <u>rick.jenkins@dot.state.fl.us</u> and Darren Martin <u>darren.martin@dot.state.fl.us</u>

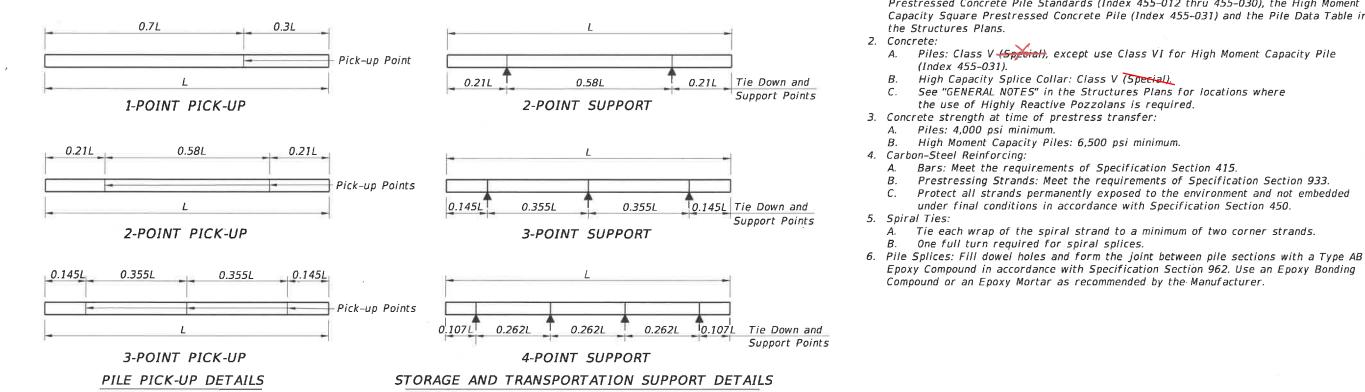
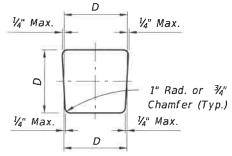
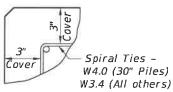


TABLE OF MAXIMUM PILE PICK-UP AND SUPPORT LENGTHS								
	D =	Square	e Pile	Size	(inches)	Required Storage and	Biok Un Dotoil	
	12	14	18	24	30	Transportation Detail	Pick-Up Detail	
Maximum	48	52	59	68	87	2, 3, or 4 point	1 Point	
Pile Length	69	75	85	98	124	2, 3, or 4 point	2 Point	
(Feet)	99	107	121	140	178	. 3 or 4 point	3 Point	



TYPICAL PILE SHAPE FOR MOLD FORMS



TYPICAL COVER

11/01/22

≥ DESCRIPTION: LA5T REVISION 11/01/20



FY 2021-22 STANDARD PLANS

SQUARE PRESTRESSED CONCRETE PILES - TYPICAL DETAILS & NOTES

PRESTRESSED CONCRETE PILE NOTES:

the Structures Plans.

(Index 455-031).

Piles: 4,000 psi minimum.

1. Work this Index with the Square Prestressed Concrete Pile Splices (Index 455-002), the Prestressed Concrete Pile Standards (Index 455-012 thru 455-030), the High Moment Capacity Square Prestressed Concrete Pile (Index 455-031) and the Pile Data Table in

A. Piles: Class V (Special), except use Class VI for High Moment Capacity Pile

Prestressing Strands: Meet the requirements of Specification Section 933.

under final conditions in accordance with Specification Section 450.

Tie each wrap of the spiral strand to a minimum of two corner strands.

Epoxy Compound in accordance with Specification Section 962. Use an Epoxy Bonding

Protect all strands permanently exposed to the environment and not embedded

See "GENERAL NOTES" in the Structures Plans for locations where

High Capacity Splice Collar: Class V (Special).

High Moment Capacity Piles: 6,500 psi minimum.

One full turn required for spiral splices.

the use of Highly Reactive Pozzolans is required.

Bars: Meet the requirements of Specification Section 415.

Compound or an Epoxy Mortar as recommended by the Manufacturer.

INDEX

SHEET

455-001 1 of 1

DETAIL SHOWING

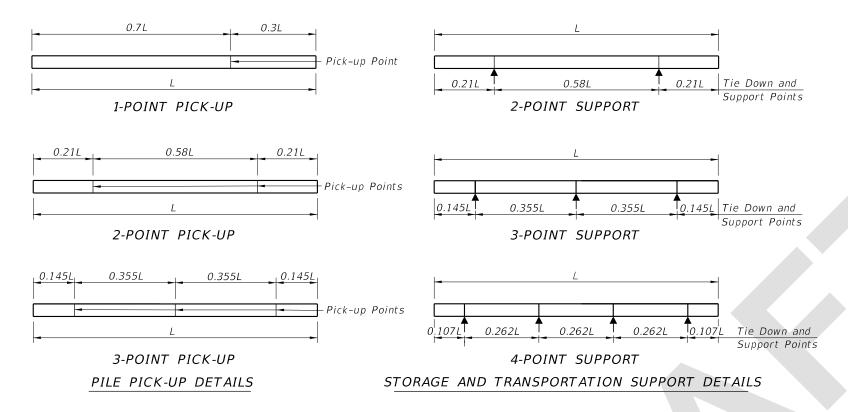
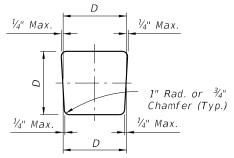
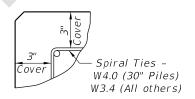


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(Feet)	99	107	121	140	178	3 or 4 point	3 Point	



TYPICAL PILE SHAPE FOR MOLD FORMS



DETAIL SHOWING TYPICAL COVER

PRESTRESSED CONCRETE PILE NOTES:

- 1. Work this Index with the Square Prestressed Concrete Pile Splices (Index 455-002), the Prestressed Concrete Pile Standards (Index 455-012 thru 455-030), the High Moment Capacity Square Prestressed Concrete Pile (Index 455-031) and the Pile Data Table in the Structures Plans.
- 2. Concrete:
 - A. Piles: Class V, except use Class VI for High Moment Capacity Pile (Index 455-031).
 - High Capacity Splice Collar: Class V.
 - See "GENERAL NOTES" in the Structures Plans for locations where the use of Highly Reactive Pozzolans is required.
- 3. Concrete strength at time of prestress transfer:
 - Piles: 4,000 psi minimum.
 - B. High Moment Capacity Piles: 6,500 psi minimum.
- 4. Carbon-Steel Reinforcing:
 - Bars: Meet the requirements of Specification Section 415.
 - Prestressing Strands: Meet the requirements of Specification Section 933.
 - Protect all strands permanently exposed to the environment and not embedded under final conditions in accordance with Specification Section 450.
- 5. Spiral Ties:
 - A. Tie each wrap of the spiral strand to a minimum of two corner strands.
 - One full turn required for spiral splices.
- 6. Pile Splices: Fill dowel holes and form the joint between pile sections with a Type AB Epoxy Compound in accordance with Specification Section 962. Use an Epoxy Bonding Compound or an Epoxy Mortar as recommended by the Manufacturer.

DESCRIPTION:

455-001