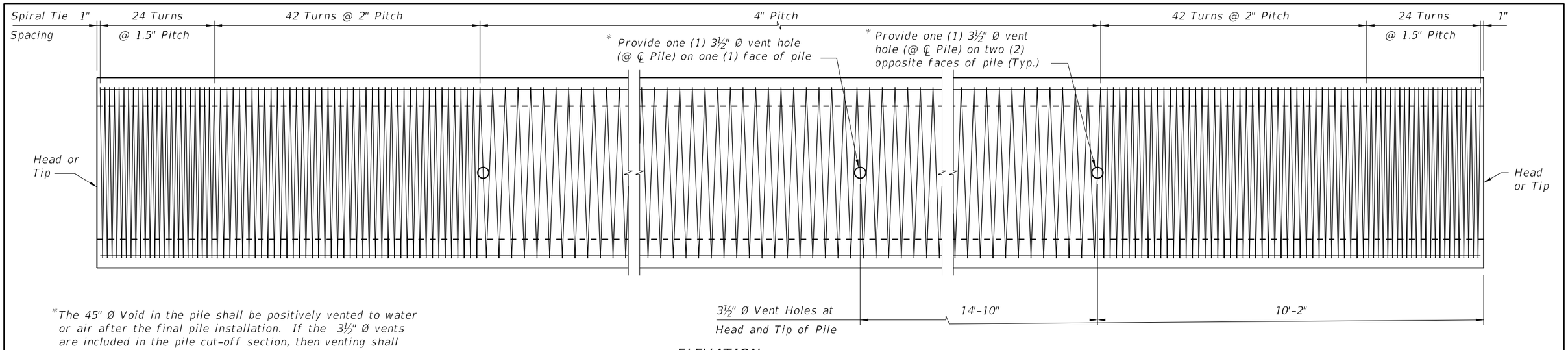
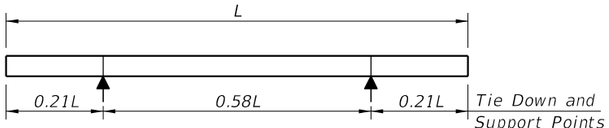
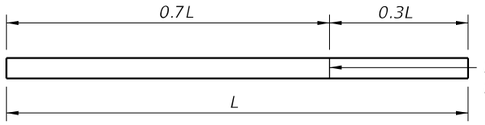



*The 45" Ø Void in the pile shall be positively vented to water or air after the final pile installation. If the 3½" Ø vents are included in the pile cut-off section, then venting shall be provided by the use of a 1" Ø PVC conduit through the substructure cap or column.

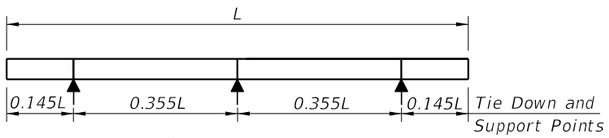
ELEVATION



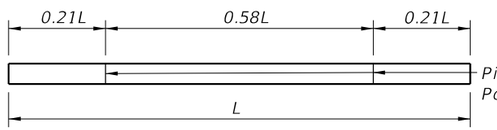

2-POINT SUPPORT



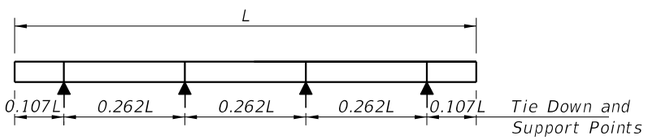

1-POINT PICK-UP




3-POINT SUPPORT




2-POINT PICK-UP




4-POINT SUPPORT

PILE PICK-UP DETAILS

STORAGE AND TRANSPORTATION SUPPORT DETAILS

| TABLE OF MAXIMUM PILE PICK-UP AND SUPPORT LENGTHS | | |
|---|---|---|
| Maximum Pile Length (Feet) | Required Storage and Transportation Detail | Pick-Up Detail |
| 122 | 2, 3, or 4 point | 1 Point |
| 174 | 2, 3, or 4 point | 2 Point |

## NOTES

1. Work this Index with the Pile Data Table in the Structures Plans.
2. Concrete:
   - A. Piles: Class V (Special)
   - B. Splice Collar: Class IV
   - C. Silica Fume: See "GENERAL NOTES" in the Structures Plans for locations where the use of silica fume, metakaolin or ultra-fine flyash is required.
3. Concrete Strength at time of prestress transfer:
   - A. Piles: 4,000 psi minimum.
4. Carbon-Steel Reinforcing:
   - A. Bars: Meet the requirements of Specification Section 415
   - B. Prestressing Strands: Use 0.6 dia. carbon-steel, Grade 270, low-relaxation strand stressed to 44.0 kips that meets the requirements of Specification Section 933.
   - C. Protect all carbon-steel strands permanently exposed to the environment and not embedded under final conditions in accordance with Specification Section 450.
5. Spiral Ties:
   - A. One half turn is required for carbon-steel spiral splices
   - B. One full turn is required at the head and tip of each pile
6. Pile Splices:
   - A. Epoxy: Type AB Epoxy Compound or Epoxy Mortar must meet the requirements of Specification Section 926.
     - a. Use a Type AB Epoxy Bonding Compound or Epoxy Mortar, as recommended by the Manufacturer, to form the joint between pile sections.
     - b. Use a Type AB Epoxy Bonding Compound as a bonding agent on internal pile surfaces.
   - B. Splices: Resume pile driving after the splice concrete reaches a minimum strength of 5,500 psi.
7. Mark piles at the pick-up points to indicate the proper points for attaching handling lines.

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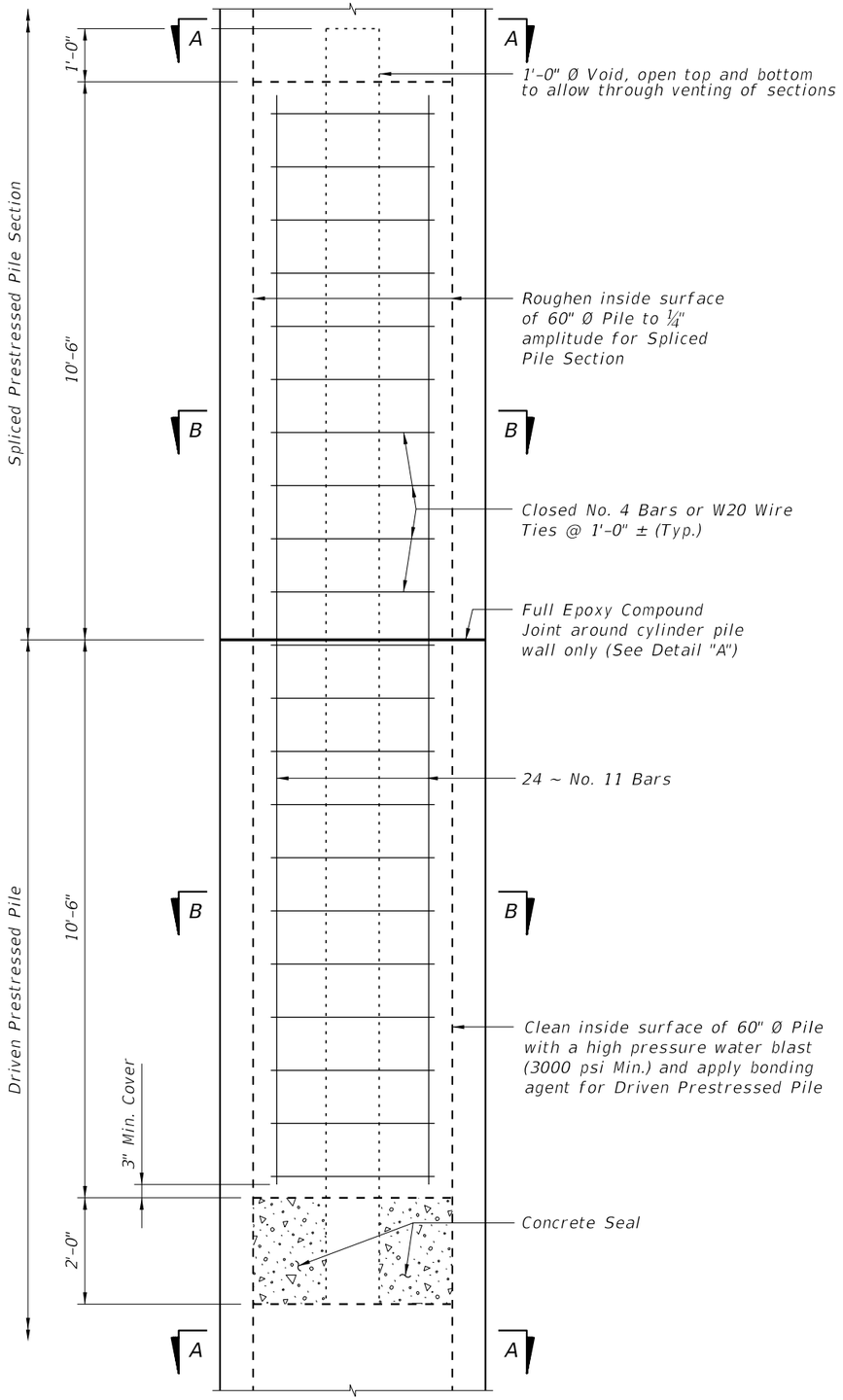
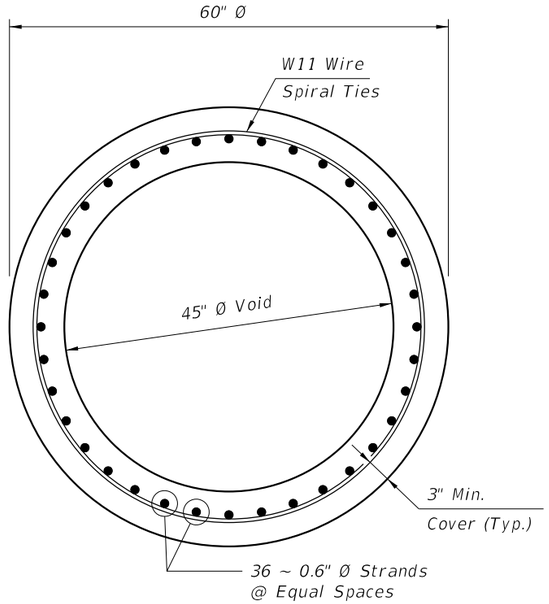
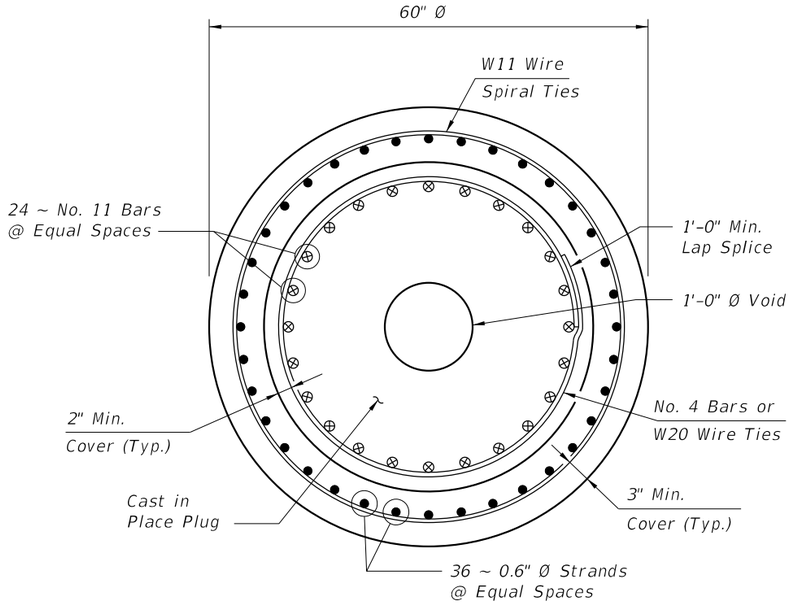
| LAST REVISION | REVISION | DESCRIPTION: | FDOT FY 2017-18 DESIGN STANDARDS | 60" PRESTRESSED CONCRETE CYLINDER PILE | INDEX NO. | SHEET NO. |
|---|---|---|---|---|---|---|
| 11/01/16 | | | | | 20660 | 1 of 2 |



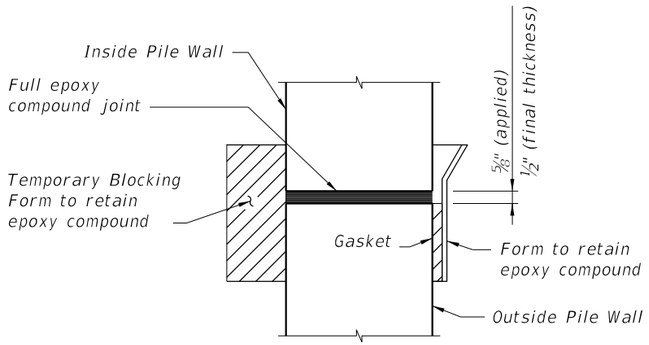

DRIVABLE UNFORESEEN FIELD SPLICE DETAIL
(Cast in Place Plug)




SECTION A-A




SECTION B-B




DETAIL "A"

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| LAST REVISION | REVISION | DESCRIPTION: | | | INDEX NO. | SHEET NO. |
|---|---|---|---|---|---|---|
| 01/01/12 | | | FDOT FY 2017-18 DESIGN STANDARDS | 60" PRESTRESSED CONCRETE CYLINDER PILE | 20660 | 2 of 2 |