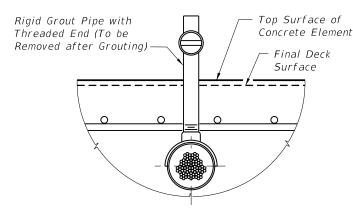
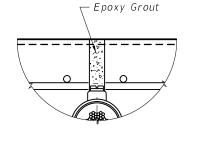


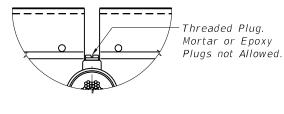
FACE INSPECTED ANCHOR WITH GROUT INLET





(1) GROUT OUTLET CONNECTION TO TENDON

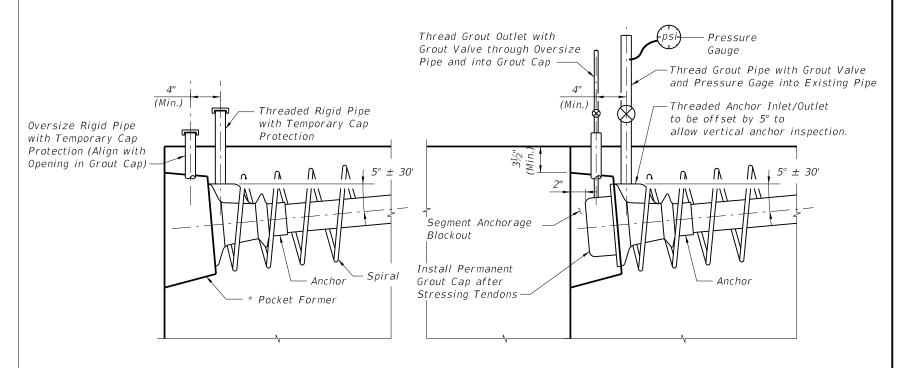
(3) FILLING POCKET



(2) POCKET PREPARATION

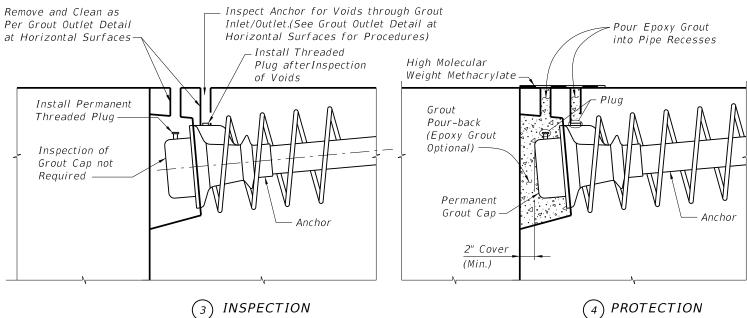
PROCEDURE:

- 1. Remove Rigid Grout Pipe.
- 2. Inspect Tendon for Voids as Necessary.
- 3. Vacuum Grout as Required and Allow Grout to Cure. Remove Pipe used for Vacuum Grouting.
- 4. Clean Threads and Rethread as Required. 5. Install Threaded Plug into Outlet to Form
- a Tight Fit. 6. Over-Ream Hole (½" Ø Over-Ream) Clean
- and Roughen Sides.
- 7. Fill Pocket with Epoxy Grout.



INSTALLATION & SHIPPING

GROUTING



NOTES:

1. Holes used for the Inspection and Grout Inlets/Outlets may be Formed using Tapered Pipes or Mandrels.

TOP INSPECTED ANCHOR WITH GROUT INLET INSTALLATION, GROUTING, INSPECTION & PROTECTION

> * Round O Pocket Former – Gravity Fed Placement of Grout Acceptable Modified Square Pocket Former - Gravity Fed Placement of Grout Acceptable Square Pocket Former - Vacuum Grouting Required

2015 FDOT DESIGN STANDARDS

POST-TENSIONING ANCHORAGE AND GROUTING DETAILS

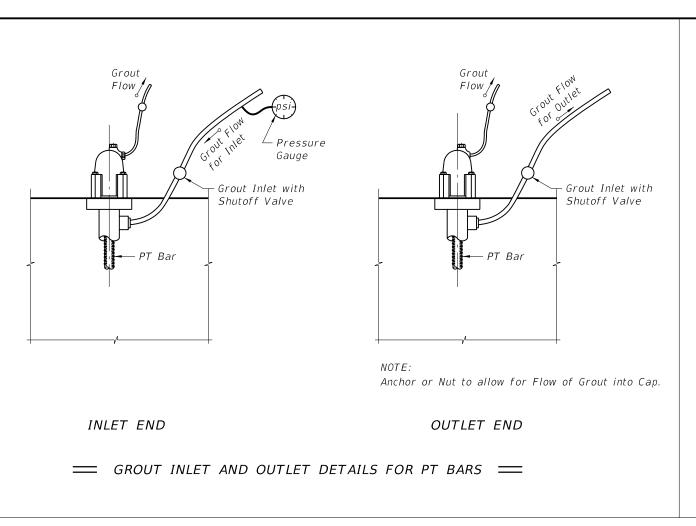
INDEX NO.

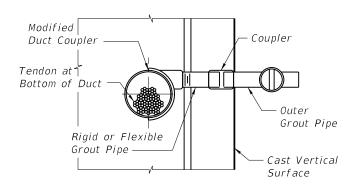
SHEET NO. 1 of 3

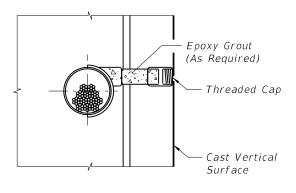
LAST

REVISION

01/01/11







(1) GROUT OUTLET CONNECTION TO TENDON

(3) FILLING POCKET

PROCEDURE:

- 1. Remove Rigid Grout Pipe. or Drill Grout in Flexible Pipe.
- 2. Inspect Tendon for Voids as Necessary.
- 3. Vacuum Grout as Required and Allow Grout to Cure for 24 hr. (Min.). Remove Pipe used for Vacuum Grouting.
- 4. Plug Recess with Threaded Cap on Inside Surfaces of Box Sections and Inside (non-fascia) Surfaces of I-Girders. For all other Surfaces, Plug Recess with both Threaded Cap and Epoxy Grout.

— Inspect Tendon Tendon at Bottom of Duct Cast Vertical Surface (2) POCKET PREPARATION

── GROUT OUTLET DETAIL AT VERTICAL SURFACES ──

Dashed Line only Applicable Dashed Line only Applicable if Top two (2) Tendons if Top two (2) Tendons Stressed after Deck Pour. Stressed after Deck Pour. Deck Slab -Deck Slab Remove Rigid Pipe Grout Outlet, Clean, and Epoxy Grout as Per Grout Outlet Build-up_ Detail at Horizontal Surfaces Build-up-Remove Rigid Pipe Grout Outlet, Coupler - Provide Clean, and Epoxy Grout as Per Threaded Plug Flexible Pipe Grout Grout Outlet Detail at Horizontal After Removal Outlet with Threaded Surfaces (Typ.) (unless otherwise of Rigid Pipe -Plug noted) Flexible Pipe -Modified Inlet / Outlet Coupler (See Grout Outlet Grout Outlet Detail at Vertical Surfaces)

> TENDONS AT 3' TO 6' FROM HIGH POINTS (GROUT OUTLET)

Tendon Duct Outlet Drains and Grout Inlets Located at Low Points of Draped Profile Drain Water Prior to Grouting and Inject Grout from the Lowest Point Coupler (Typ) -After Grout Set, Plug Recess with Threaded Cap.

TENDONS AT LOW POINTS (GROUT INLET / DRAIN)

── GROUT INLET AND OUTLET DETAILS FOR I-GIRDERS/BULB-T'S ──

Details for C-I-P Boxes with Internal Tendons Similar. Web Reinforcing not Shown for Clarity.

LAST REVISION 01/01/11

Diaphragm-

I-Girder or

HIGH POINT INSPECTION

LOCATION AT GROUT OUTLET

Bulb-T -

∠ DESCRIPTION:

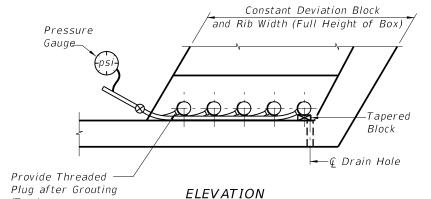
2015 DESIGN STANDARDS

POST-TENSIONING ANCHORAGE AND GROUTING DETAILS

INDEX NO. 21803

SHEET NO. 2 of 3

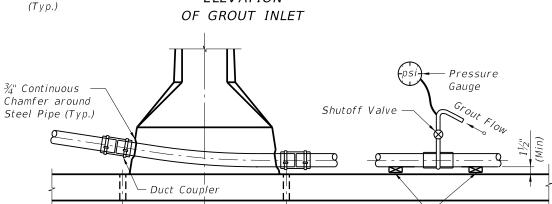
FDOT



Place Tapered Blocks Under Each Tendon to be Grouted to Raise Duct off Tendon Strands. Center Strands within Duct before Grouting Blocks Shall be Removed after Grout has Set. Blocks Shall not Damage or Permanently Deform

Duct.

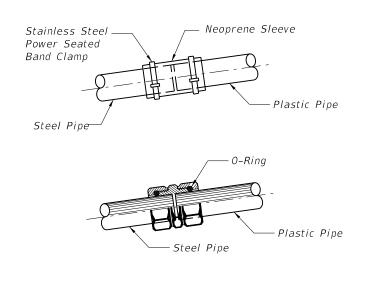
∠Tapered Blocks



GROUTING FOR SPAN BY SPAN CONSTRUCTION

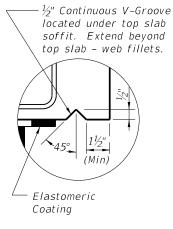
SECTION

-- ♀ Drain Hole

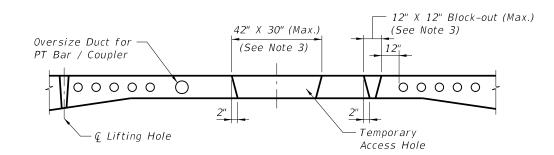


DUCT COUPLER DETAIL

¢ Drain Hole →



DETAIL OF DRIP LEDGE AT ABUTMENTS AND EXPANSION JOINTS FOR SEGMENTAL AND CAST-IN-PLACE BOX CONSTRUCTION



TEMPORARY ACCESS HOLES

Notes: Temporary Access Holes

- 1. Temporary access holes to facilitate access for erection, jacking and grouting operations inside the box during construction are allowed. The access holes shall be limited to a maximum size of 42" wide x 30" long and shall be limited to one per span.
- 2. Slab block-outs for temporary / permanent longitudinal post-tensioning bars are not allowed. Temporary/ permanent PT bars in the top slab shall be placed in oversized ducts in the slab to accommodate both the bar and coupler.
- 3. In lieu of $1 \sim 42'' \times 30''$ temporary access hole, a maximum of 2 top slab block-outs (12" x 12" (Max.)) between the webs is allowed for construction per span. Block-outs shall be a minimum of 12" from the nearest duct or anchor and shall be located as to prevent direct drip onto bottom slab anchors.

Notes: Repair of Temporary Access Holes, Block-outs, and Lifting Holes

- 1. Form all large block-outs with tapered sides.
- 2. Immediately before casting the concrete, mechanically clean the mating concrete surfaces to remove any laitance and to expose small aggregate.
- 3. Repair all holes and block-outs with Magnesium Ammonium Phosphate Concrete within 24 hours of cleaning concrete.
- 4. After completion of the deck grooving, coat the repaired and surrounding concrete surfaces with High Molecular Weight Methacrylate.
- 5. Alternately, epoxy grout may be used to repair holes. High Molecular Weight Methacrylate is not required with epoxy grout.

DESCRIPTION: