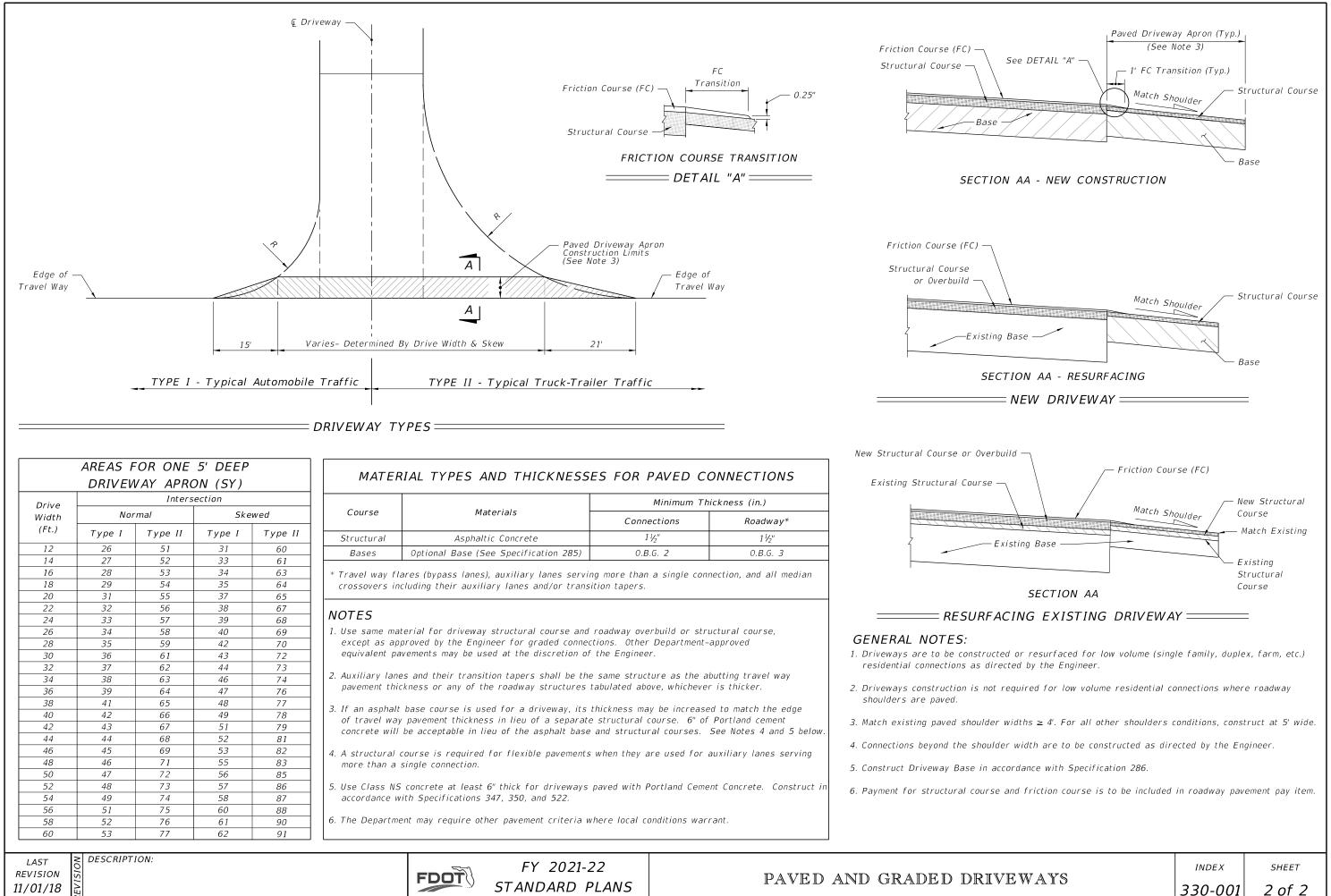
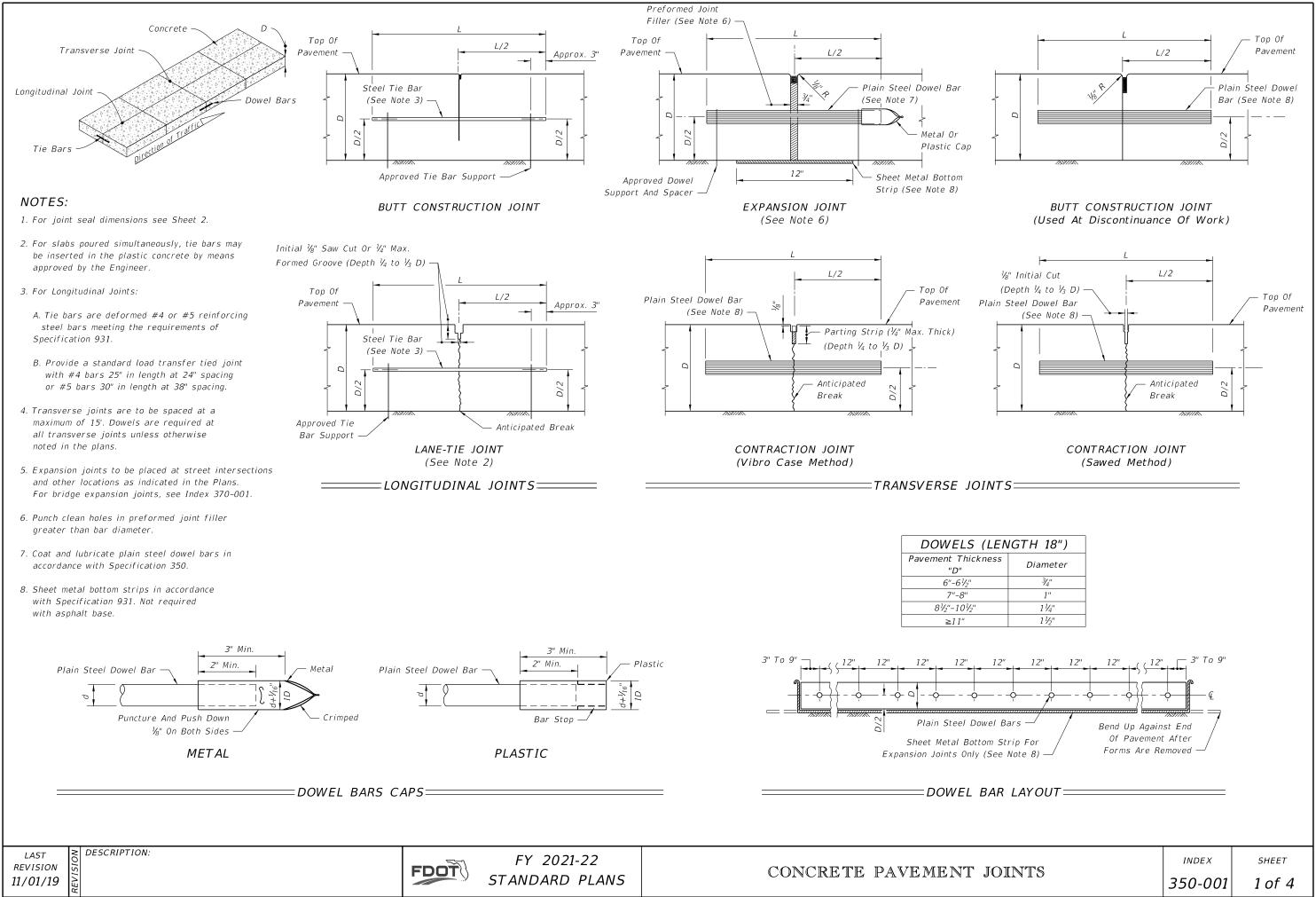
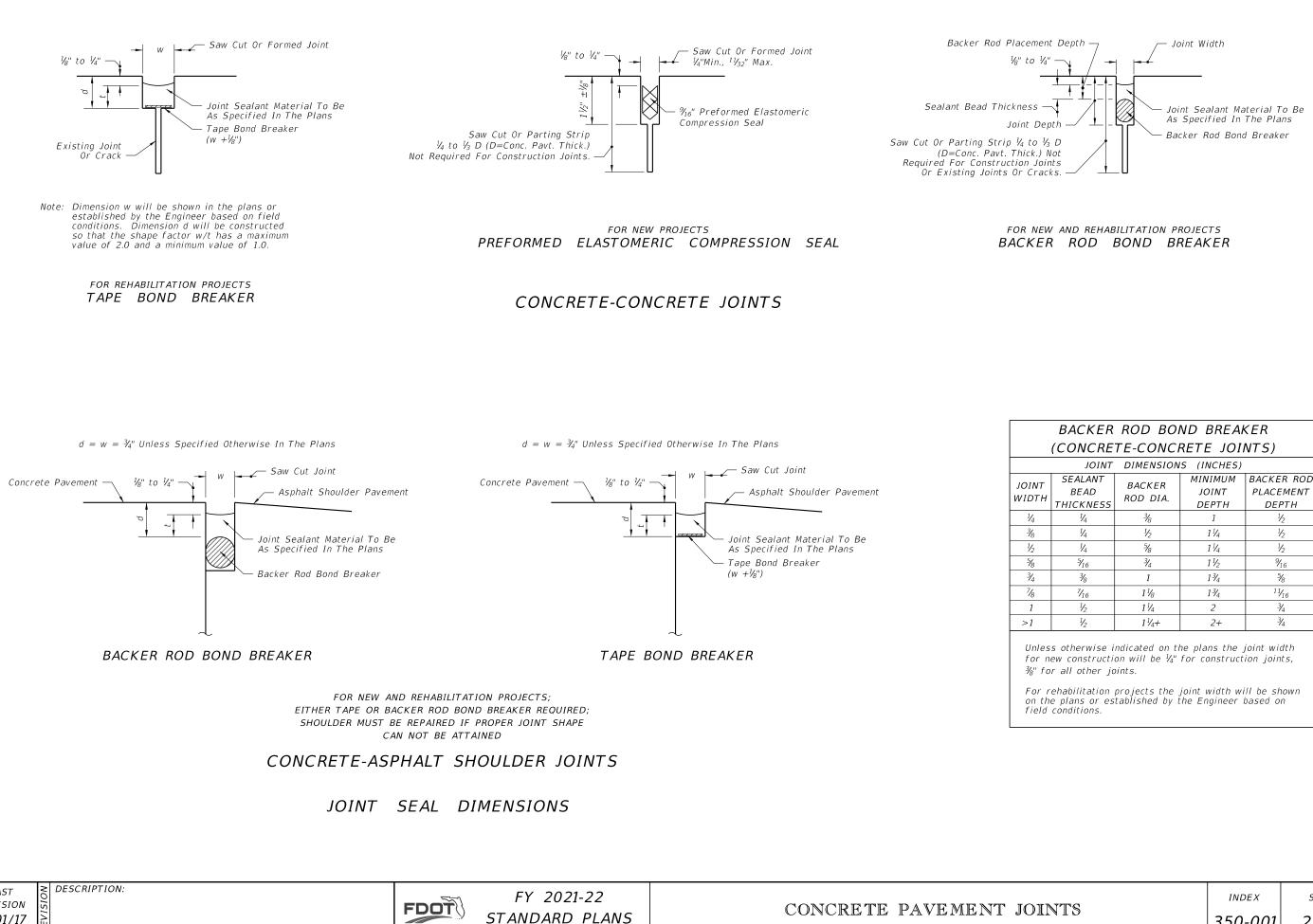


| Limits of C | learing and Gru | bbing |
|--|---|-----------------------|
| 10" All Other B | se to Edge of P Bases 4" Outside To Apron of Curt | Edge of Pavt. |
| 3' Transitio | on | |
| | R/W | Line Stabilization |
| Ç Project P.T. (Typ.) | Edge of T | ravel Way |
| WITH CURB & GUTTER | | |
| | | |
| | | |
|). | | |
| letermined by the Engineer. | | |
| o private property as directed | d | |
| ns may be waived for connecti than 20 trips per day, or 5 tri wn in the Plans. | | |
| facilities. The connecting poir | nt | |
| cial, industrial or high volume ne connecting point 30'-0' from 5. | | |
| ions. The R/W is the connecti | ng point. | |
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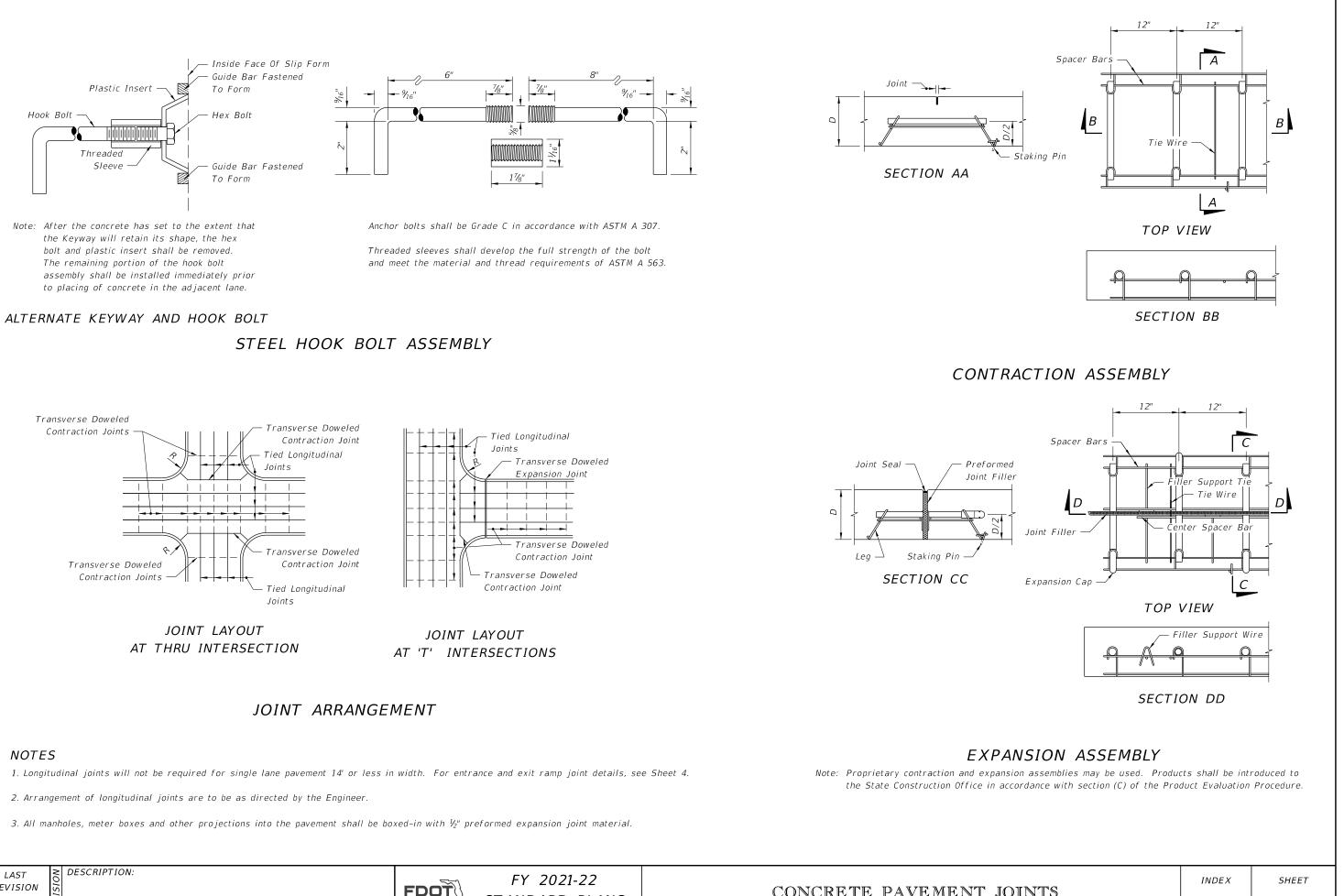




| LAST |
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| JOINT DIMENSIONS (INCHES) SEALANT BEAD THICKNESS BACKER ROD DIA. MINIMUM JOINT DEPTH BACKER RO PLACEMEN DEPTH ½ ¾ 1 ½ ¼ ¾ 1 ½ ¼ ½ 1¼ ½ ¼ ½ 1¼ ½ ¼ ½ 1¼ ½ ¼ ½ 1¼ ½ ¾ ½ 1¼ ½ ¾ ½ 1¼ ½ ¾ ¾ 1½ ¾ ¾ 1½ 1½ ¾ ¾ 1½ ½ ¾ | BACKER ROD BOND BREAKER | | | | | |
|--|----------------------------|-----------------|-------------|----------------------------------|--|--|
| SEALANT BEAD THICKNESS BACKER ROD DIA. MINIMUM JOINT DEPTH BACKER RC PLACEMEN DEPTH ½ ¾ 1 ½ ¼ ¾ 1 ½ ¼ ½ 1¼ ½ ¼ ½ 1¼ ½ ¼ ½ 1¼ ½ ¼ ½ 1¼ ½ ¾ ½ 1¼ ½ ¾ ½ 1¼ ½ ¾ ½ 1¼ ½ ¾ ¾ 1½ ¾ ¾ 1¼ ½ ¾ | (CONCRETE-CONCRETE JOINTS) | | | | | |
| BEAD THICKNESS BACKER ROD DIA. JOINT DEPTH PLACEMEN DEPTH ¼ ¾ 1 ½ ¼ ¾ 1 ½ ¼ ½ 1¼ ½ ¼ ½ 1¼ ½ ¼ ½ 1¼ ½ ¼ ½ 1¼ ½ ¾ ½ 1¼ ½ ¾ ½ 1¼ ½ ¾ ½ 1¼ ½ ¾ ¾ 1½ % ¾ 1 ½ % | JOINT | DIMENSION | IS (INCHES) | | | |
| $\begin{array}{c c c c c c c c c c c c c c c c c c c $ | BEAD | | JOINT | BACKER ROD PLACEMENT DEPTH | | |
| $\begin{array}{c ccccccccccccccccccccccccccccccccccc$ | 1/4 | 3/8 | 1 | 1/2 | | |
| $\begin{array}{c ccccccccccccccccccccccccccccccccccc$ | 1/4 | 1/2 | 1 1/4 | 1/2 | | |
| <i>¾</i> 1 1¾ <i>¾</i> | V_4 | ⁵ /8 | 1 1/4 | 1/2 | | |
| | ⁵ /16 | 3/4 | 11/2 | %16 | | |
| 7_{16} 1_{8} 1_{34} 1_{16} | 3/8 | 1 | 1¾ | 5/8 | | |
| | 7/ ₁₆ | 1 1/8 | 1¾ | 11/ ₁₆ | | |
| $\frac{1}{2}$ $\frac{1}{4}$ 2 $\frac{3}{4}$ | 1 _{/2} | 1 1/4 | 2 | 3/4 | | |
| $\frac{1}{2}$ $1\frac{1}{4}$ 2+ $\frac{3}{4}$ | 1/2 | 11/4+ | 2+ | 3/4 | | |

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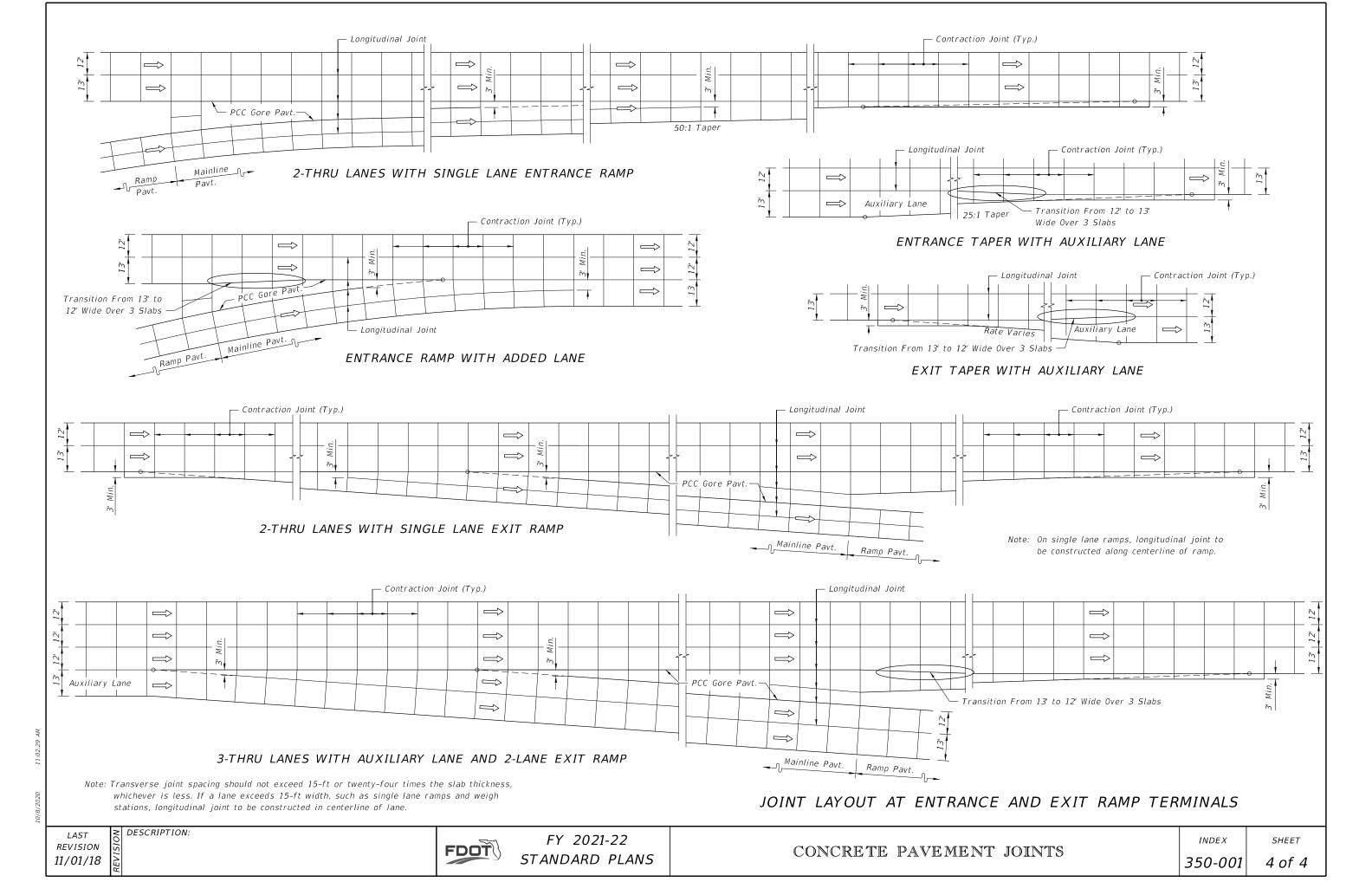


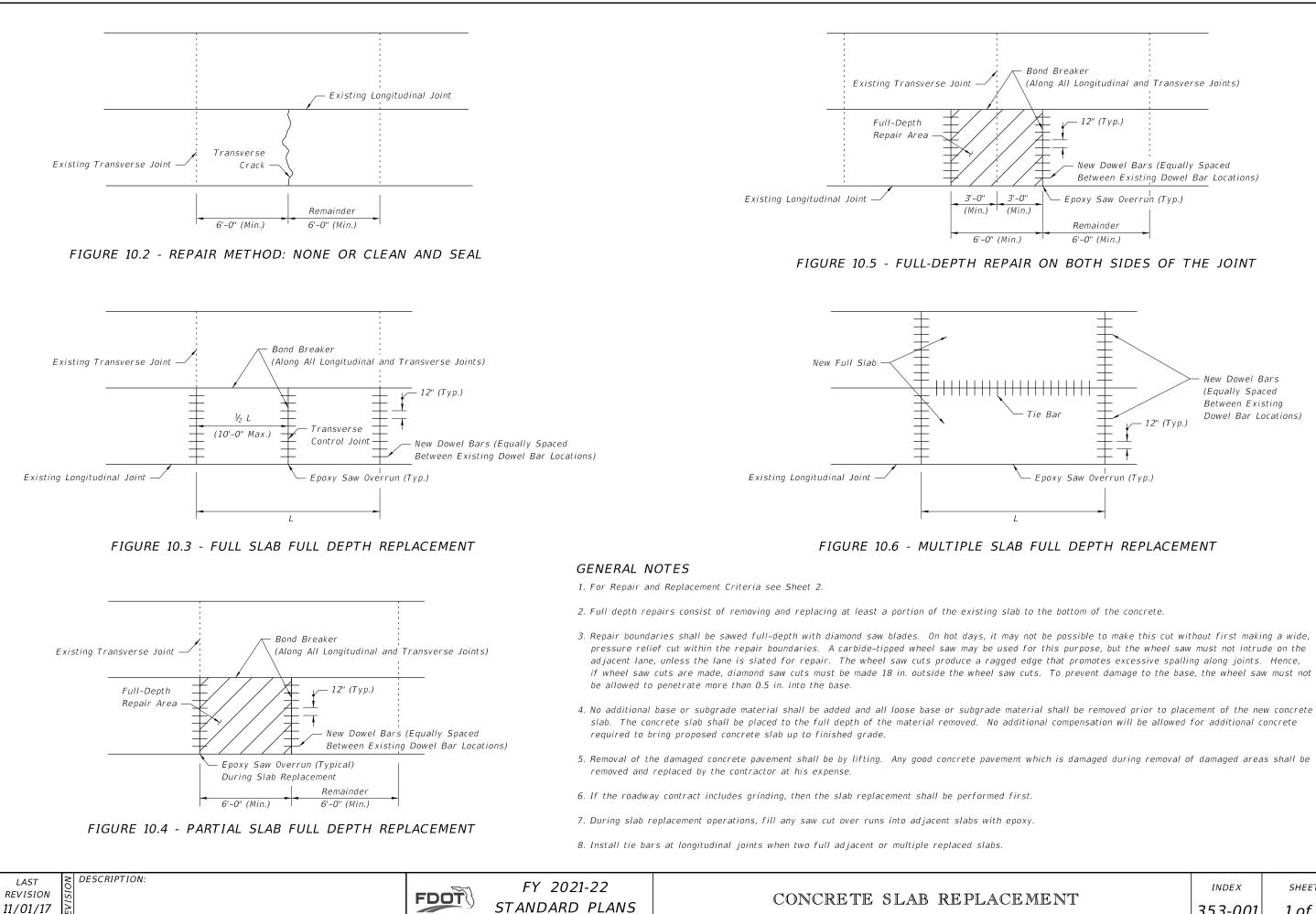
STANDARD PLANS

CONCRETE PAVEMENT JOINTS

350-001

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STANDARD PLANS

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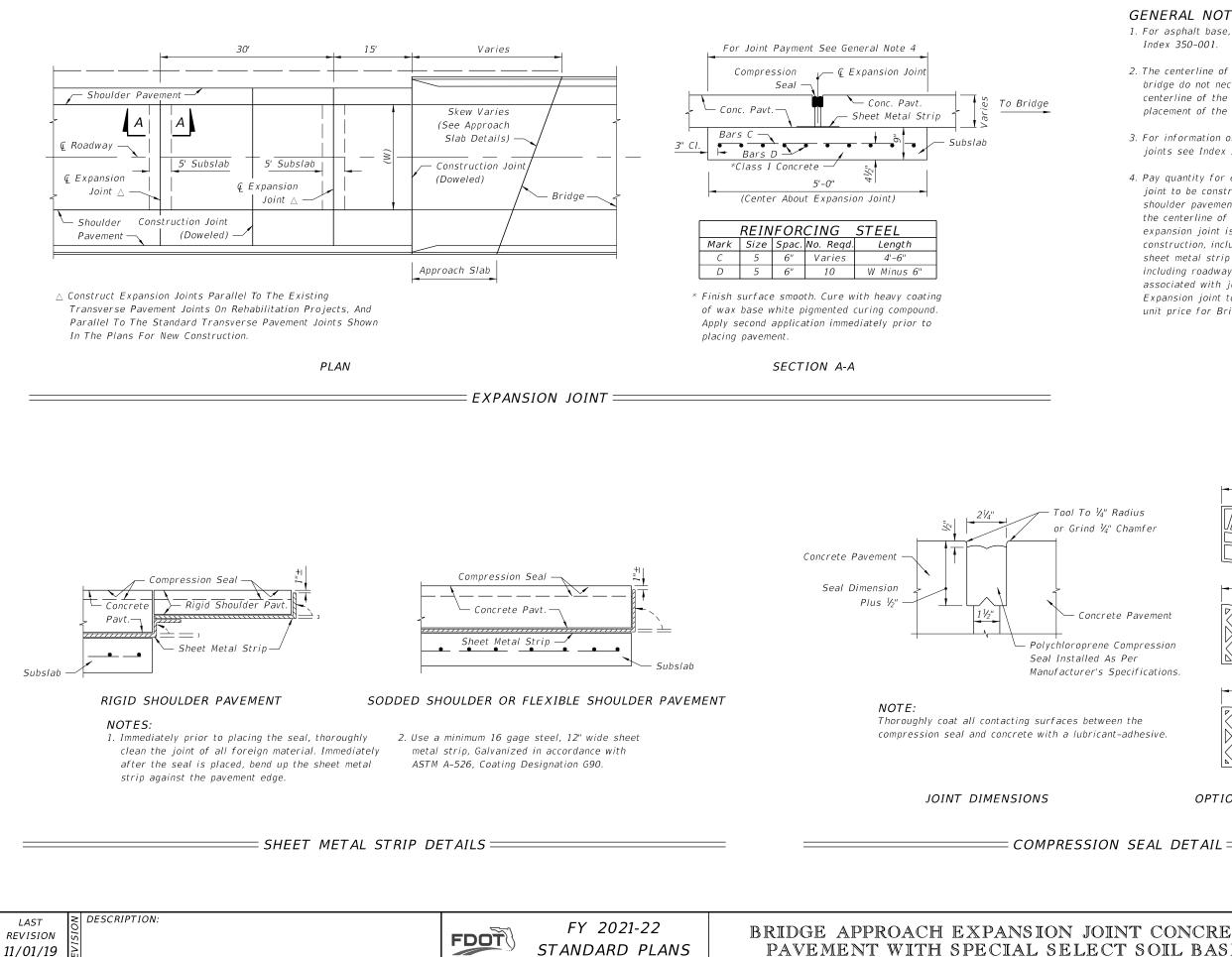
SLAB REPAIR AND REPLACEMENT CRITERIA

| DISTRESS PATTERN | | SEVERITY/DESCRIPTION | REPAIR METHOD | REF |
|--|---|---|---|-----------|
| CRACKING | | | | |
| | Light | $<\!$ | None | Fi |
| Longitudinal | Moderate | $\frac{1}{6}$ " <width <<math="">\frac{1}{2}", spalling <3" wide</width> | Clean and Seal | Fi |
| | Severe | width > $\frac{1}{2}$ ", spalling >3" faulting > $\frac{1}{2}$ " | Replace | Fi |
| | Light | 2/2", no faulting, spalling <<math 2/2" wide | None | Fi |
| Transverse | Moderate | $\frac{1}{6}$ " <width <<math="">\frac{1}{2}", spalling <3" wide</width> | Clean and Seal | |
| | Severe | width > $\frac{1}{2}$ ", spalling >3" faulting > $\frac{1}{2}$ " | Replace | Figure 10 |
| Corner Breaks | adjacent lo | the slab is separated by a crack that intersects the ngitudinal and transverse joint, describing an approximate ith the direction of traffic. | Full Depth | Figure |
| Intersecting Random Cracks (Shattered Slab) | Cracking pa | atterns that divide the slab into three or more segments. | Full Depth | Figure |
| JOINT DEFICIENCIES | | | | |
| | Light | spall width <1½", < $\frac{1}{3}$ slab depth, <12" in length | None | Figure |
| Spall Nonwheel Path | Moderate | $1\frac{1}{2}$ " <spall <="" <3",="" <math="" width="">\frac{1}{3} slab depth, <12" in length</spall> | None | Figure |
| | Severe | spall width >3" or length >12" | Full Depth | Figure |
| | Light | spall width <1½", <than <math="">\frac{1}{2} slab depth, <12" in length</than> | None | Figure |
| Spall Wheel Path | Moderate | $1\frac{1}{2}$ " <spall <="" <3",="" <math="" width="">\frac{1}{3} slab depth, <12" in length</spall> | Full Depth | Figure |
| | Severe | spall width >3" or length >12" | Full Depth | Figure |
| SURFACE DETERIORATIO | N | | | |
| Pop Outs Nonwheel Path | from 1 to 4 | s of surface pavement broken loose, normally ranging 4 in. diameter and $\frac{1}{2}$ to 2 in. in depth. | | |
| | Light | Not deemed to be a traffic hazard | Keep under observation | |
| Pop Outs Wheel Path | | Flying debris deemed a traffic hazard s of surface pavement broken loose, normally er and 2" in depth. | Full Depth | Fi |
| | Light | Deemed to be a traffic hazard | Full Depth | Fi |
| | Severe | Flying debris deemed a traffic hazard | Full Depth | Fi |
| AISCELLANEOUS DISTRES | is l | | | |
| | Elevation d | ifferences across joints or cracks. | | |
| Faulting | Light | Faulting <4/32" | None | |
| | Moderate | 4 <faulting 32"<="" <16="" td=""><td>Grind</td><td></td></faulting> | Grind | |
| | Severe | Faulting >16/32" | Grind | |
| | Light | 0 <drop-off <1"<="" td=""><td>None</td><td></td></drop-off> | None | |
| Lane To Shoulder Drop-Off | Moderate | 1" <drop-off <3"<="" td=""><td>Build Up</td><td></td></drop-off> | Build Up | |
| | Severe | drop-off >3 " | Build Up | |
| Water Bleeding Or Pumping | | ejection of water through joints or cracks. | Install appropriate drainage, edge drain, permeable subbase, reseal joints, etc. | |
| Blowups | Upward movement at transverse joints or cracks often accompanied by shattering of the concrete. | | Full Depth | Figure |

LAST REVISION 11/01/17

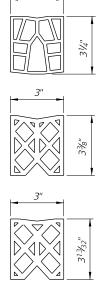


| REFERENCE | | |
|-----------------------|---------|--------|
| | | |
| Figure 10.2 | | |
| Figure 10.2 | | |
| Figure 10.3 | | |
| Figure 10.2 | | |
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| ure 10.4 and 10.5 | | |
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| Figure 10.4 | | |
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| ure 10.3 and 10.4 | | |
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GENERAL NOTES:

- 1. For asphalt base, use four expansion joints per Index 350-001.
- 2. The centerline of roadway and the centerline of bridge do not necessarily coincide. Determine the centerline of the roadway pavement prior to the placement of the expansion joint.
- 3. For information on other types of concrete pavement joints see Index 350-001.
- 4. Pay quantity for expansion joint is the length of joint to be constructed across the roadway and shoulder pavements, measured at right angles to the centerline of the roadway. Payment for expansion joint is full compensation for joint construction, including reinforced concrete subslab, sheet metal strip and compression seal, but, not including roadway pavement reconstruction associated with joint replacement or reconstruction. Expansion joint to be paid for under the contract unit price for Bridge Approach Expansion Joint, LF.



OPTIONAL SEALS

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