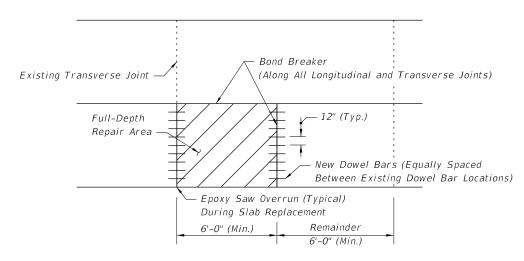


FIGURE 10.3 - FULL SLAB FULL DEPTH REPLACEMENT

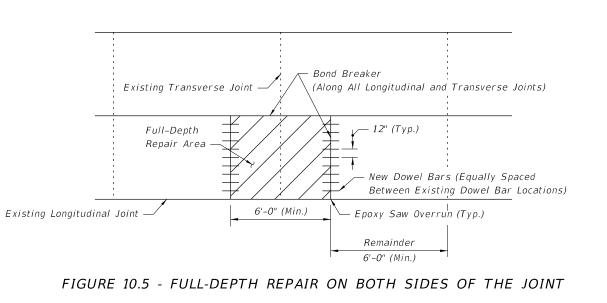


## FIGURE 10.4 - PARTIAL SLAB FULL DEPTH REPLACEMENT

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FDOT DESIGN STANDARDS FY 2012/2013



## GENERAL NOTES

- 1. For Repair and Replacement Criteria see Sheet 2.
- slab to the bottom of the concrete.
- to penetrate more than 0.5 in. into the base.
- grade.
- replaced by the contractor at his expense.
- first.
- ероху.

## CONCRETE SLAB REPI

2. Full depth repairs consist of removing and replacing at least a portion of the existing

3. Repair boundaries shall be sawed full-depth with diamond saw blades. On hot days, it may not be possible to make this cut without first making a wide, pressure relief cut within the repair boundaries. A carbide-tipped wheel saw may be used for this purpose, but the wheel saw must not intrude on the adjacent lane, unless the lane is slated for repair. The wheel saw cuts produce a ragged edge that promotes excessive spalling along joints. Hence, if wheel saw cuts are made, diamond saw cuts must be made 18 in. outside the wheel saw cuts. To prevent damage to the base, the wheel saw must not be allowed

4. No additional base or subgrade material shall be added and all loose base or subgrade material shall be removed prior to placement of the new concrete slab. The concrete slab shall be placed to the full depth of the material removed. No additional compensation will be allowed for additional concrete required to bring proposed concrete slab up to finished

5. Removal of the damaged concrete pavement shall be by lifting. Any good concrete pavement which is damaged during removal of damaged areas shall be removed and

6. If the roadway contract includes grinding, then the slab replacement shall be performed

7. During slab replacement operations, fill any saw cut over runs into adjacent slabs with

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## SLAB REPAIR AND REPLACEMENT CRITERIA

DISTRESS PATTERN		SEVERITY/DESCRIPTION	REPAIR METHOD	
CRACKING				
	Light	<1/8", no faulting, spalling <1/2" wide	None	
Longitudinal	Moderate	$\frac{1}{6}$ " <width <<math="">\frac{1}{2}", spalling &lt;3" wide</width>	Clean and Seal	
	Severe	width > $\frac{1}{2}$ ", spalling >3" faulting > $\frac{1}{2}$ "	Replace	
	Light	$<\!$	None	
Transverse	Moderate	$\frac{1}{6}$ " <width <<math="">\frac{1}{2}", spalling &lt;3" wide</width>	Clean and Seal	
	Severe	width > $\frac{1}{2}$ ", spalling >3" faulting > $\frac{1}{2}$ "	Replace	Figur
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	Fi
Intersecting Random Cracks (Shattered Slab)	Cracking pa	atterns that divide the slab into three or more segments.	Full Depth	Fig
JOINT DEFICIENCIES				
	Light	spall width <1½", < $\frac{1}{3}$ slab depth, <12" in length	None	Fi
Spall Nonwheel Path	Moderate	$1\frac{1}{2}$ " <spall <="" <3",="" <math="" width="">\frac{1}{3} slab depth, &lt;12" in length</spall>	None	Fig
	Severe	spall width >3" or length >12"	Full Depth	Fig
	Light	spall width $<1\frac{1}{2}$ ", $<$ than $\frac{1}{3}$ slab depth, $<12$ " in length	None	Fic
Spall Wheel Path	Moderate	$1\frac{1}{2}$ " <spall <="" <3",="" <math="" width="">\frac{1}{3} slab depth, &lt;12" in length</spall>	Full Depth	Fic
	Severe	spall width >3" or length >12"	Full Depth	Fie
URFACE DETERIORATIO	N			
Pop Outs Nonwheel Path		s of surface pavement broken loose, normally ranging 1 in. diameter and $\frac{1}{2}$ to 2 in. in depth.		
	Light	Not deemed to be a traffic hazard	Keep under observation	
	Severe	Flying debris deemed a traffic hazard	Full Depth	
Pop Outs Wheel Path		s of surface pavement broken loose, normally er and 2" in depth.		
	Light	Deemed to be a traffic hazard	Full Depth	
	Severe	Flying debris deemed a traffic hazard	Full Depth	
ISCELLANEOUS 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''	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		vement at transverse joints or cracks often d by shattering of the concrete.	Full Depth	Fie



REFERENCE			
Figure 10.2			
Figure 10.2			
Figure 10.3			
Figure 10.2			
ure 10.3, 10.4 and 10.5			
Figure 10.4 and 10.5			
Figure 10.3 and 10.4			
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