

ENT	INDEX	SHEET
	353-001	1 of 2

SLAB REPAIR AND REPLACEMENT CRITERIA

DISTRESS PATTERN	SEVERITY/DESCRIPTION REPAIR METHOD		REPAIR METHOD	REF
CRACKING				
	Light	$<\!$	None	Fig
Longitudinal	Moderate	$\frac{1}{8}$ " <width <<math="">\frac{1}{2}", spalling <3" wide</width>	Clean and Seal	Fi
	Severe	width > $\lambda_2^{\prime\prime}$, spalling >3" faulting > $\lambda_2^{\prime\prime}$	Replace	Fi
	Light	$<\!$	None	Fi
Transverse	Moderate	$\frac{1}{8}$ " <width <<math="">\frac{1}{2}", spalling <3" wide</width>	Clean and Seal	
	Severe	width > V_2 ", spalling >3" faulting > V_2 "	Replace	Figure 10
Corner Breaks	A corner of the slab is separated by a crack that intersects the adjacent longitudinal and transverse joint, describing an approximate 45° angle with the direction of traffic.		Full Depth	Figure
Intersecting Random Cracks (Shattered Slab)	Cracking patterns that divide the slab into three or more segments.		Full Depth	Figure
JOINT DEFICIENCIES				
	Light	spall width $<1\frac{1}{2}$ ", $<\frac{1}{3}$ 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 <1 $\frac{1}{2}$, <than <math="">\frac{1}{3} 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		s of surface pavement broken loose, normally ranging in. diameter and $\frac{1}{2}$ to 2 in. in depth. Not deemed to be a traffic hazard	Keep under observation	
	Severe	Flying debris deemed a traffic hazard	Full Depth	Fi
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	Fi
	Severe	Flying debris deemed a traffic hazard	Full Depth	Fi
ISCELLANEOUS DISTRES	55			
	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	
Lane To Shoulder Drop-Off	Light	0 < drop-off < 1''	None	
	Moderate	1" <drop-off <3"<="" td=""><td>Build Up</td><td></td></drop-off>	Build Up	
			Build Up	
Water Bleeding Or Pumping	Severe drop-off >3 " Seeping or ejection of water through joints or cracks.		Install appropriate drainage, edge drain, permeable subbase, reseal joints, etc.	

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LAST REVISION 11/01/17

DESCRIPTION:



CONCRETE SLAB REPLACEM

REFERENCE]		
Figure 10.2			
Figure 10.2			
Figure 10.3			
Figure 10.2			
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ו ורי א זיווי		INDEX	SHEET
IENT		353-001	2 of 2