Distress Measurements

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Joint Reflection Cracking

Only occurs on pavements with PCC base

Does not include reflection cracking from stabilized bases or cracks in base slabs (include with LTD cracking)

Counted separately from L&T, block, and other cracking distresses

Joint reflection cracking is measured in linear feet / meters for each severity

Joint Reflection Cracking

Low severity	Medium severity	High Severity
• Light spalling • Little or no FOD potential • Non-filled or unsatisfactorily filled cracks < ¼" wide • Satisfactorily filled cracks > ¼" wide	• Moderate spalling • Some FOD potential • Light random cracking at intersections • Unfilled cracks > ¼" wide w/ little spalling or FOD potential	• Severe spalling • Definite FOD potential • Width > 3"

Joint Reflection Cracking

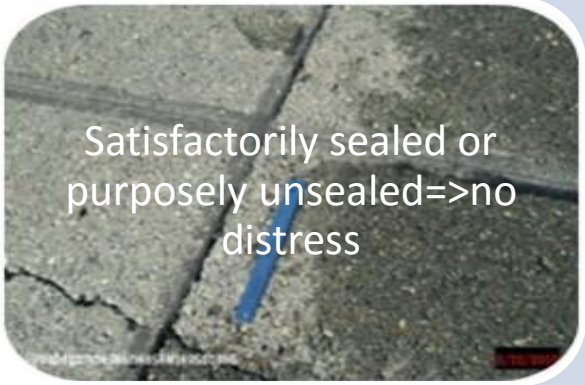
- Knowledge of PCC joint pattern will help identification
- Each foot of a reflection crack is considered independently
- Little, light, or minor spalling means no spall longer than 3", no spalled particles larger than 4 square inches, and less than 10% of the crack face spalled
- Moderately spalled means no spall longer than 6" and less than 50% of the segment is spalled
- Severely spalled means the segment is spalled over more than half its length
- If secondary cracking/spalling extends >1ft total on either side, record as alligator cracking
- Rated separately from L&T and block cracking
- JRC should rate at least as high as comparable L&T cracking

JRC Low Severity

JRC Medium Severity

JRC High Severity

Saw Cuts in Asphalt Overlay over PCC



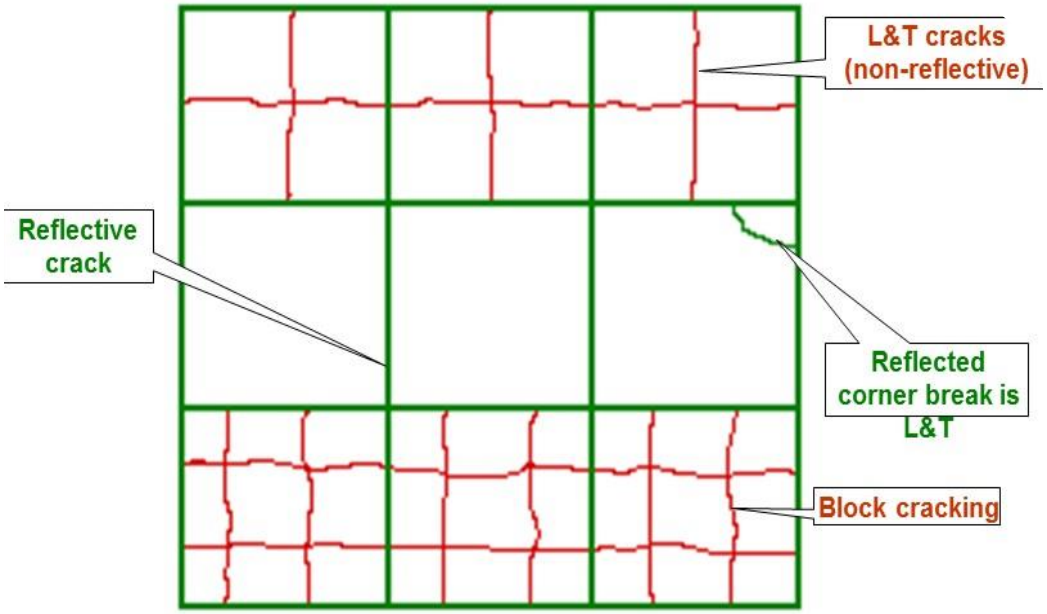
Satisfactorily sealed or purposely unsealed=>no distress

Meet criteria for M or H severity=>JRC

Missed underlying joint

- Crack over joint is recorded at appropriate severity
- Satisfactorily sealed or purposely unsealed sawcut=>no distress
- Sawcut meets criteria for M or H severity=>L&T

Joint Reflection Cracking



Joint reflection cracks may be used to define the blocks of block cracking if the non-reflective cracks comprise a majority of the cracks that define block boundaries.

QUESTIONS?

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