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| https://my.tti.tamu.edu/com/publishingimages/TTI_Color.jpg |  | Texas A&M Transportation Institute  The Texas A&M University System  3135 TAMU  College Station, TX 77843-3135  Thomas J. Freeman  979-845-9923  Fax: 979-845-0278  http://tti.tamu.edu/group/pavements/groups/pavement-management/ |

July 17, 2015

To: Marci A. Greenberger and 09-11 Project Panel

Subject: *Pavement Maintenance Guidelines for General Aviation Airport*

*Management*

Interim Report #2 – Decision Trees and Supporting Documentation

ACRP Project 09-11

Contained in this interim report are the following:

Table 1. List of Asphalt Pavement Distress Decision Points

Table 2. Asphalt Pavement Treatment Types

Tables 3-18. 16 Asphalt Decision Trees

National – Wet Freeze, Dry Freeze, Dry No Freeze, Wet No Freeze

Regional – Wet Freeze, Dry Freeze, Dry No Freeze, Wet No Freeze

Local – Wet Freeze, Dry Freeze, Dry No Freeze, Wet No Freeze

Basic – Wet Freeze, Dry Freeze, Dry No Freeze, Wet No Freeze

Table 19. Example from Excel Sheet – All Responses-AC

Table 20. Order of Precedence – AC Pavements

Table 21. List of Concrete pavement distress decision points

Table 22. Concrete Pavement Treatment Types

Tables 23-38. 16 Concrete Decision Trees

National – Wet Freeze, Dry Freeze, Dry No Freeze, Wet No Freeze

Regional – Wet Freeze, Dry Freeze, Dry No Freeze, Wet No Freeze

Local – Wet Freeze, Dry Freeze, Dry No Freeze, Wet No Freeze

Basic – Wet Freeze, Dry Freeze, Dry No Freeze, Wet No Freeze

Table 39. Example from Excel Sheet – All Responses-PCC

Table 40. Order of Precedence-PCC Pavements

We look forward to seeing the comments and input from the panel during the conference. Please let me know if you need any additional information or have any questions or comments.

Thanks,

Tom Freeman

Texas A&M Transportation Institute

Program Manager, Pavement Management

Contained in this interim report are the following:

**Table 1. List of Asphalt Pavement Distress Decision Points.**

This table lists the distresses, distress severities, and conditions where the respondents of the survey were asked to make decisions on treatment types. These distresses are in accord with ASTM D5340-10 “Standard Test Method for Airport Pavement Condition Index Surveys” and those used in the FAA airport pavement management program FAA PAVEAIR.

**Table 2.**  **Asphalt Pavement Treatment Types.**

Table 2 lists the typical and customary treatment types for Asphalt pavements. A selection of “Other” was also a possible choice. Figure 1 shows the typical layout of a question.

**Tables 3-18. Asphalt Decision Trees**

**Tables 3-6. National – Wet Freeze, Dry Freeze, Dry No Freeze, Wet No Freeze**

**Tables 7-10. Regional – Wet Freeze, Dry Freeze, Dry No Freeze, Wet No Freeze**

**Tables 11-14. Local – Wet Freeze, Dry Freeze, Dry No Freeze, Wet No Freeze**

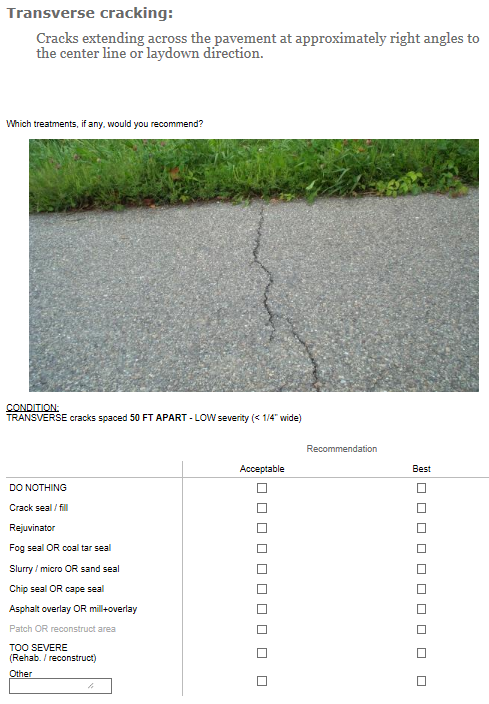
**Tables 15-18. Basic – Wet Freeze, Dry Freeze, Dry No Freeze, Wet No Freeze**

The survey respondent was asked to select the “Best” treatment, and then select other treatments that were “Acceptable”. Responses were received and tallied.

There were some corrections and additions made to the data. Where the response was that a certain treatment type was the “Best”, it was also included as “Acceptable”. In some instances the response was “Other”, but the description indicated that it was a variation of one of the existing treatments. For example, the response of “Other” included killing the grass and weeds in the crack. This was coded as “Crack Seal/Fill”. Where possible, the responses from the survey were used, but in other instances a response did not follow what the project team believed to be proper engineering practice. For example, when the question was about high severity joint seal damage, the response of “Rehab/Reconstruction” was determined to be excessive and improper. In other cases, the “Best” and “Acceptable” were switched to be consistent with that respondents other responses. Each of these changes is indicated in the tables by a shaded response. If no response was received for a question, it is also shaded. For example, if all of the responses to the question shown in Figure 1 were “Crack Seal/Fill” as the “Best” treatment, but there were no other treatments selected as “Acceptable”, the “Acceptable” response was shaded. If there were no responses received at all, as for the National-Dry Freeze category, all responses are shaded. The responses to the questions where there was no available response were taken from other responses in adjacent categories. Occasionally, there were several equivalent responses to the question so both responses were recorded.

**Table 19. Example from Excel Sheet – All Responses-AC**

Table 19 is an example (the full data is found in the attached Excel file but does not convert to tables well) showing how the final dispensation of distress decision points and treatments are distributed by climate and category. At the top of each of the decision tree tables is the description and code used in this table. For example, NWN is National Wet No Freeze. A designation is in lower case indicates that there was more than one treatment selected. This was used to locate outlier type responses and to fill-in responses where none was originally received.



**Figure 1. Layout of Asphalt Distress Type Selection Survey.**

**Table 20. Order of Precedence – AC Pavements**

This table illustrated the hierarchy of treatments. That is, when two distress decision points exist for a pavement, this table shows which one will be reported. For example, if one decision is crack seal but the other decision is rehab/reconstruct, only the rehab/reconstruct will be displayed.

**Table 21. List of Concrete Pavement Distress Decision Points**

This table is similar to Table 1, but the distresses, distress severities, and conditions are for concrete pavements. As before, these distresses are in accord with ASTM D5340-10 “Standard Test Method for Airport Pavement Condition Index Surveys” and those used in the FAA airport pavement management program FAA PAVEAIR.

**Table 22. Concrete Pavement Treatment Types**

Table 22 lists the typical and customary treatment types for Concrete pavements. A selection of “Other” was also a possible choice.

**Tables 23-38. 16 Concrete Decision Trees**

**Tables 39-42. National – Wet Freeze, Dry Freeze, Dry No Freeze, Wet No Freeze**

**Tables 42-45. Regional – Wet Freeze, Dry Freeze, Dry No Freeze, Wet No Freeze**

**Tables 46-49. Local – Wet Freeze, Dry Freeze, Dry No Freeze, Wet No Freeze**

**Tables 50-53. Basic – Wet Freeze, Dry Freeze, Dry No Freeze, Wet No Freeze**

Similar to Tables 3-18

**Table 39. Example from Excel Sheet – All Responses-PCC**

Same as Table 19, but for concrete pavements.

**Table 40. Order of Precedence-PCC Pavements**

Same as Table 20, but for concrete pavements.

**Table 1. Asphalt Pavement Distress Decision Points**

Starting to weather (losing fines)

Definitely Weathering (losing fines)

Starting to ravel (larger rock starting to pop out)

Definitely raveling and losing rock

A few longitudinal cracks or joints Low severity (< ¼” wide)

A few longitudinal cracks or joints Moderate severity (> ¼” and < 1” wide or starting to break down

A few longitudinal cracks or joints High severity (> 1” wide or severely spalled causing FOD

Many longitudinal cracks- Low severity (< ¼”” wide)

Many longitudinal cracks- Moderate severity (> ¼”” and < 1”” wide or starting to break down)

Many longitudinal cracks- High severity (> 1”” wide or severely spalled and causing FOD.)

Few edge cracks- Low severity (< ¼” wide)

Few edge cracks- Mod sev (> ¼” to < 1” wide,or starting to break down)

Few edge cracks- High sev (> 1” wide,or sev spall causing FOD)

Transverse cracks spaced 50 ft apart Low severity (< ¼”” wide)

Transverse cracks spaced 50 ft apart Mod sev (> ¼” and < 1” wide,or start to break down)

Transverse cracks spaced 50 ft apart High sev (> 1” wide,or severely spalled with FOD)

Transverse cracks spaced 20 ft apart Low sev (< ¼” wide)

Transverse cracks spaced 20 ft apart Moderate severity (> ¼” and < 1” wide, or starting to break down)

Transverse cracks spaced 20 ft apart High sev (> 1” wide,or sev spall with FOD)

Block cracking Low severity (< ¼” wide)

Block cracking Moderate severity (> ¼” and < 1” wide or starting to break down)

Block cracking High severity (> 1” wide or severely spalled with FOD)

Reflection cracking Low severity (< ¼” wide)

Reflection cracking Moderate severity (> ¼” and < 1” wide or starting to break down)

Reflection cracking High severity (> 1” wide, or severely spalled causing FOD)

Fatigue crack-10% Area Low severity (fine longitudinal cracks, few interconnecting cracks)

Fatigue cracking- 10% of Area Moderate severity (cracking is developed into a pattern, some spalling)

Fatigue cracking- 10% of Area High severity (interconnected cracking pattern is well defined, spalled

edges, pieces are missing or move under traffic)

Fatigue cracking- 30% of Area Low severity (fine longitudinal cracks with few interconnecting cracks)

Fatigue cracking- 30% of Area Moderate severity (cracking is developed into a pattern, some spalling)

Fatigue cracking- 30% of Area High severity (interconnected cracking pattern is well defined, spalled

edges, pieces are missing or move under traffic)

Patching- 10% of Area Low severity (patches in good condition)

Patching- 10% of Area Moderate severity (patches somewhat deteriorated)

Patching- 10% of Area High severity (patches are deteriorated and rough)

Patching- 30% of Area Low severity (patches in good condition)

Patching- 30% of Area Moderate severity (patches somewhat deteriorated)

Patching- 30% of Area High severity (patches are deteriorated and rough)

Roughness-Runway has Minimal Distress, Isolated, Long Wavelength Swells

Roughness-Runway has Minimal Distress, Many Long Wavelength Swells

Roughness-Runway has Minimal Distress, No Swells, Many Short Wavelength Bumps

**Table 2. Asphalt Pavement Treatment Types.**

|  |
| --- |
| Do nothing |
| Crack seal/ fill |
| Rejuvenator |
| Fog/Coal tar seal |
| Slurry/micro |
| Chip/cape seal |
| AC overlay/ Mill+ overlay |
| Patch/Reconstruct Area |
| Too Severe-Rehab/Reconstruct |

Table 3. **National Category- Wet Freeze Zone**

|  |  |  |
| --- | --- | --- |
|  | **National Category- Wet Freeze Zone** | |
| Ques | Accept | Best |
| Starting to weather (losing fines) | Do Nothing | Rejuvenator, or Fog/Coal Tar Seal |
| Definitely Weathering (losing fines) | Rejuvenator, or Fog/Coal tar Seal | Slurry/Micro |
| Starting to ravel (larger rock starting to pop out) | Rejuvenator, or Fog/Coal tar Seal | Slurry/Micro |
| Definitely raveling and losing rock | Chip/Cape seal | Asphalt Overlay/Mill+overlay |
| Few longitudinal cracks or joints, Low severity | Do Nothing | Crack seal/ fill |
| Few longitudinal cracks or joints Mod severity | Crack seal/fill | Crack seal/ fill |
| Few longitudinal cracks or joints- High severity | Crack seal/fill | Patch/Reconstruct area |
| Many longitudinal cracks- Low sev | Do Nothing | Crack seal/ fill |
| Many longitudinal cracks- Mod sev | Asphalt Overlay/Mill+overlay | Crack seal/ fill |
| Many longitudinal cracks- High severity | Asphalt Overlay/Mill+overlay | Rehab or Reconstruct |
| A few edge cracks- Low severity | Crack seal/ fill | Do Nothing |
| A few edge cracks- Moderate severity | Patch/Reconstruct area | Crack seal/ fill |
| A few edge cracks- High severity | Crack seal/fill | Patch/Reconstruct area |
| Transverse cracks spaced 50 ft apart Low sev | Do Nothing | Crack seal/ fill |
| Transverse cracks spaced 50 ft apart Mod sev | Crack seal/fill | Crack seal/ fill |
| Transverse cracks spaced 50 ft apart High sev | Crack seal/ fill | Patch/Reconstruct area |
| Transverse cracks spaced 20 ft apart- Low sev | Do Nothing | Crack seal/ fill |
| Transverse cracks spaced 20 ft apart Mod sev | Asphalt Overlay/Mill+overlay | Crack seal/ fill |
| Transverse cracks spaced 20 ft apart High sev | Crack seal/ fill,or Chip/Cape seal | Asphalt Overlay/Mill+overlay |
| Block cracking Low severity | Do Nothing, Chip/Cape seal | Crack seal/ fill |
| Block cracking Moderate severity | Chip/Cape seal, or Asphalt Overlay/Mill+overlay | Crack seal/ fill |
| Block cracking High severity | Chip/Cape seal, or Asphalt Overlay/Mill+overlay | Rehab or Reconstruct |
| Reflection cracking Low severity | Do Nothing | Crack seal/ fill |
| Reflection cracking Mod severity | Crack seal/fill | Crack seal/ fill |
| Reflection cracking High severity | Patch/Reconstruct area | Rehab or Reconstruct |
| Fatigue cracking- 10% Low severity | Crack seal/fill | Patch/Reconstruct area |
| Fatigue cracking- 10% Mod severity | Crack seal/fill | Patch/Reconstruct area |
| Fatigue cracking- 10% High severity | Rehab/Reconstruct | Patch/Reconstruct area |
| Fatigue cracking- 30% Fatigue cracking Low sev | Patch/Reconstruct area | Rehab or Reconstruct |
| Fatigue cracking- 30% Moderate sev | Patch/Reconstruct area | Rehab or Reconstruct |
| Fatigue cracking- 30% High sev | Patch/Reconstruct area | Rehab or Reconstruct |
| Patching- 10% Low severity | Crack seal/fill | Do Nothing |
| Patching- 10% Moderate severity | Crack seal/fill | Patch/Reconstruct area |
| Patching- 10% High severity | Asphalt Overlay/Mill+overlay | Patch/Reconstruct area |
| Patching- 30% Low severity | Slurry/Micro, or Chip/Cape seal | Do Nothing |
| Patching- 30% Moderate severity | Chip/Cape seal | Asphalt Overlay/Mill+overlay |
| Patching- 30% High severity | Asphalt overlay/Mill+ overlay, or Patch/Reconstruct area | Rehab or Reconstruct |
| Roughness, Long Wavelength Swells | Patch/Reconstruct area | Asphalt overlay/Mill+ overlay, or Do Nothing |
| Roughness- Many Long Wavelength Swells | Rehab or Reconstruct | Asphalt Overlay/Mill+overlay |
| Roughness- No Swells, Many Short Wave Bump | Asphalt Overlay/Mill+overlay | Patch/Reconstruct area |

Table 4. **National Category- Dry Freeze Zone**

|  |  |  |
| --- | --- | --- |
|  | **National Category- Dry Freeze Zone** | |
| Ques | Accept | Best |
| Starting to weather (losing fines) | Slurry/Micro | Rejuvenator, or Fog/Coal Tar seal |
| Definitely Weathering (losing fines) | Slurry/Micro | Rejuvenator, or Fog/Coal Tar seal |
| Starting to ravel (larger rock starting to pop out) | Rejuvenator, or Fog/Coal Tar seal | Slurry/Micro |
| Definitely raveling and losing rock | Slurry/Micro, or Chip/Cape seal | Asphalt Overlay/Mill+overlay |
| Few longitudinal cracks or joints, Low severity | Do Nothing | Crack seal/fill |
| Few longitudinal cracks or joints Mod severity | Crack seal/fill | Crack seal/fill |
| Few longitudinal cracks or joints- High severity | Crack seal/fill | Patch/Reconstruct area |
| Many longitudinal cracks- Low sev | Do Nothing | Crack seal/fill |
| Many longitudinal cracks- Mod sev | Asphalt Overlay/Mill+overlay | Crack seal/fill |
| Many longitudinal cracks- High severity | Asphalt Overlay/Mill+overlay | Rehab/Reconstruct |
| A few edge cracks- Low severity | Crack seal/fill | Do Nothing |
| A few edge cracks- Moderate severity | Patch/Reconstruct area | Crack seal/fill |
| A few edge cracks- High severity | Crack seal/fill | Patch/Reconstruct area |
| Transverse cracks spaced 50 ft apart Low sev | Do Nothing | Crack seal/fill |
| Transverse cracks spaced 50 ft apart Mod sev | Crack seal/fill | Crack seal/fill |
| Transverse cracks spaced 50 ft apart High sev | Crack seal/fill | Patch/Reconstruct area |
| Transverse cracks spaced 20 ft apart- Low sev | Do Nothing | Crack seal/fill |
| Transverse cracks spaced 20 ft apart Mod sev | Asphalt Overlay/Mill+overlay | Crack seal/fill |
| Transverse cracks spaced 20 ft apart High sev | Crack seal/ fill,or Chip/Cape seal | Asphalt Overlay/Mill+overlay |
| Block cracking Low severity | Do Nothing | Crack seal/fill |
| Block cracking Moderate severity | Crack seal/fill | Chip/Cape seal |
| Block cracking High severity | Chip/Cape seal | Rehab/Reconstruct |
| Reflection cracking Low severity | Do Nothing | Crack seal/fill |
| Reflection cracking Mod severity | Chip/Cape seal, or Asphalt Overlay or Mill+overlay | Crack seal/fill |
| Reflection cracking High severity | Patch/Reconstruct area | Rehab/Reconstruct |
| Fatigue cracking- 10% Low severity | Patch/Reconstruct area | Crack seal/fill |
| Fatigue cracking- 10% Mod severity | Crack seal/fill | Patch/Reconstruct area |
| Fatigue cracking- 10% High severity | Crack seal/fill | Patch/Reconstruct area |
| Fatigue cracking- 30% Fatigue crack Low sev | Asphalt Overlay/Mill+overlay | Patch/Reconstruct area |
| Fatigue cracking- 30% Moderate sev | Asphalt Overlay/Mill+overlay | Patch/Reconstruct area |
| Fatigue cracking- 30% High sev | Patch/Reconstruct area | Rehab/Reconstruct |
| Patching- 10% Low severity | Crack seal/fill | Do Nothing |
| Patching- 10% Moderate severity | Crack seal/fill | Patch/Reconstruct area |
| Patching- 10% High severity | Asphalt Overlay/Mill+overlay | Patch/Reconstruct area |
| Patching- 30% Low severity | Crack seal/fill | Do Nothing |
| Patching- 30% Moderate severity | Chip/Cape seal | Asphalt Overlay/Mill+overlay |
| Patching- 30% High severity | Asphalt Overlay/Mill+overlay | Rehab/Reconstruct |
| Roughness, Long Wavelength Swells | Asphalt Overlay/Mill+overlay | Do Nothing |
| Roughness- Many Long Wavelength Swells | Patch/Reconstruct area | Asphalt Overlay/Mill+overlay |
| Roughness- No Swell, Many Short Wave Bump | Patch/Reconstruct area | Patch/Reconstruct area |

Table 7. **National Category- Dry No Freeze Zone**

|  |  |  |
| --- | --- | --- |
|  | **National Category- Dry No Freeze Zone** | |
| Ques | Accept | Best |
| Starting to weather (losing fines) | Fog/Coal tar Seal, or Slurry/Micro | Rejuvenator |
| Definitely Weathering (losing fines) | Fog/Coal tar Seal | Slurry/Micro |
| Starting to ravel (larger rock starting to pop out) | Slurry/Micro | Fog/Coal tar Seal |
| Definitely raveling and losing rock | Slurry/Micro, or Chip/Cape seal | Asphalt Overlay/Mill+overlay |
| Few longitudinal cracks or joints, Low severity | Crack seal/fill | Do Nothing |
| Few longitudinal cracks or joints Mod severity | Crack seal/fill | Crack seal/fill |
| Few longitudinal cracks or joints- High severity | Crack seal/fill | Patch/Reconstruct area |
| Many longitudinal cracks- Low sev | Crack seal/fill | Do Nothing |
| Many longitudinal cracks- Mod sev | Crack seal/fill | Asphalt Overlay/Mill+overlay |
| Many longitudinal cracks- High severity | Asphalt Overlay/Mill+overlay | Rehab/Reconstruct |
| A few edge cracks- Low severity | Rejuvenator, Fog/Coal tar Seal | Crack seal/fill |
| A few edge cracks- Moderate severity | Patch/Reconstruct area | Crack seal/fill |
| A few edge cracks- High severity | Crack seal/fill | Patch/Reconstruct area |
| Transverse cracks spaced 50 ft apart Low sev | Do Nothing | Crack seal/fill |
| Transverse cracks spaced 50 ft apart Mod sev | Crack seal/fill | Crack seal/fill |
| Transverse cracks spaced 50 ft apart High sev | Crack seal/fill | Patch/Reconstruct area |
| Transverse cracks spaced 20 ft apart- Low sev | Do Nothing | Crack seal/fill |
| Transverse cracks spaced 20 ft apart Mod sev | Asphalt Overlay/Mill+overlay | Crack seal/fill |
| Transverse cracks spaced 20 ft apart High sev | Crack seal/fill | Asphalt Overlay/Mill+overlay |
| Block cracking Low severity | Do Nothing | Crack seal/fill |
| Block cracking Moderate severity | Crack seal/fill | Crack seal/fill |
| Block cracking High severity | Rehab/Reconstruct | Patch/Reconstruct area |
| Reflection cracking Low severity | Do Nothing | Crack seal/fill |
| Reflection cracking Mod severity | Crack seal/fill, or Chip/Cape seal | Crack seal/fill |
| Reflection cracking High severity | Patch/Reconstruct area | Rehab/Reconstruct |
| Fatigue cracking- 10% Low severity | Patch/Reconstruct area | Crack seal/fill |
| Fatigue cracking- 10% Mod severity | Patch/Reconstruct area | Crack seal/fill |
| Fatigue cracking- 10% High severity | Crack seal/fill | Patch/Reconstruct area |
| Fatigue cracking- 30% Fatigue cracking Low sev | Asphalt Overlay/Mill+overlay | Patch/Reconstruct area |
| Fatigue cracking- 30% Moderate sev | Asphalt Overlay/Mill+overlay | Patch/Reconstruct area |
| Fatigue cracking- 30% High sev | Rehab/Reconstruct | Patch/Reconstruct area |
| Patching- 10% Low severity | Crack seal/fill | Do Nothing |
| Patching- 10% Moderate severity | Crack seal/fill | Patch/Reconstruct area |
| Patching- 10% High severity | Asphalt Overlay/Mill+overlay | Patch/Reconstruct area |
| Patching- 30% Low severity | Crack Seal/Fill | Do Nothing |
| Patching- 30% Moderate severity | Chip/Cape Seal | Rehab/Reconstruct |
| Patching- 30% High severity | Asphalt Overlay/Mill+overlay | Rehab/Reconstruct |
| Roughness, Long Wavelength Swells | Asphalt Overlay/Mill+overlay | Do Nothing |
| Roughness- Many Long Wavelength Swells | Patch/Reconstruct area | Asphalt Overlay/Mill+overlay |
| Roughness- No Swell, Many Short Wave Bump | Patch/Reconstruct area | Asphalt Overlay/Mill+overlay |

Table 8. **National Category- Wet No Freeze Zone**

|  |  |  |
| --- | --- | --- |
|  | **National Category- Wet No Freeze Zone NWN** | |
| Ques | Accept | Best |
| Starting to weather (losing fines) | Fog/Coal tar Seal | Rejuvenator |
| Definitely Weathering (losing fines) | Rejuvenator, or Fog/Coal tar Seal | Slurry/Micro |
| Starting to ravel (larger rock starting to pop out) | Rejuvenator, or Fog/Coal tar Seal | Slurry/Micro |
| Definitely raveling and losing rock | Slurry/Micro, or Chip/Cape seal | Asphalt Overlay/Mill+overlay |
| Few longitudinal cracks or joints, Low severity | Do Nothing | Crack seal/fill |
| Few longitudinal cracks or joints Mod severity | Crack seal/fill | Crack seal/fill |
| Few longitudinal cracks or joints- High severity | Crack seal/fill | Patch/Reconstruct area |
| Many longitudinal cracks- Low sev | Rejuvenator, Fog/Coal tar Seal | Crack seal/fill |
| Many longitudinal cracks- Mod sev | Asphalt Overlay/Mill+overlay | Crack seal/fill |
| Many longitudinal cracks- High severity | Asphalt Overlay/Mill+overlay | Patch/Reconstruct area |
| A few edge cracks- Low severity | Do Nothing | Crack seal/fill |
| A few edge cracks- Moderate severity | Patch/Reconstruct area | Crack seal/fill |
| A few edge cracks- High severity | Crack seal/fill | Patch/Reconstruct area |
| Transverse cracks spaced 50 ft apart Low sev | Do Nothing | Crack seal/fill |
| Transverse cracks spaced 50 ft apart Mod sev | Crack seal/fill | Crack seal/fill |
| Transverse cracks spaced 50 ft apart High sev | Asphalt Overlay/Mill+overlay | Patch/Reconstruct area |
| Transverse cracks spaced 20 ft apart- Low sev | Do Nothing | Crack seal/fill |
| Transverse cracks spaced 20 ft apart Mod sev | Asphalt Overlay/Mill+overlay | Crack seal/fill |
| Transverse cracks spaced 20 ft apart High sev | Crack seal/fill | Asphalt Overlay/Mill+overlay |
| Block cracking Low severity | Do Nothing, Chip/Cape seal | Crack seal/fill |
| Block cracking Moderate severity | Asphalt Overlay/Mill+overlay | Crack seal/fill |
| Block cracking High severity | Asphalt Overlay/Mill+overlay | Rehab/Reconstruct |
| Reflection cracking Low severity | Do Nothing | Crack seal/fill |
| Reflection cracking Mod severity | Crack seal/fill | Crack seal/fill |
| Reflection cracking High severity | Patch/Reconstruct area | Rehab/Reconstruct |
| Fatigue cracking- 10% Low severity | Crack seal/fill | Patch/Reconstruct area |
| Fatigue cracking- 10% Mod severity | Crack seal/fill | Patch/Reconstruct area |
| Fatigue cracking- 10% High severity | Asphalt Overlay/Mill+overlay | Rehab/Reconstruct |
| Fatigue cracking- 30% Fatigue cracking Low sev | Asphalt Overlay/Mill+overlay, or Patch/Reconstruct area | Rehab/Reconstruct |
| Fatigue cracking- 30% Moderate sev | Asphalt Overlay/Mill+overlay, or Patch/Reconstruct area | Rehab/Reconstruct |
| Fatigue cracking- 30% High sev | Patch/Reconstruct area | Rehab/Reconstruct |
| Patching- 10% Low severity | Crack seal/fill | Do Nothing |
| Patching- 10% Moderate severity | Crack seal/fill | Patch/Reconstruct area |
| Patching- 10% High severity | Asphalt Overlay/Mill+overlay | Patch/Reconstruct area |
| Patching- 30% Low severity | Slurry/Micro, or Cape/Chip seal | Do Nothing |
| Patching- 30% Moderate severity | Cape/Chip seal | Asphalt Overlay/Mill+overlay |
| Patching- 30% High severity | Asphalt Overlay/Mill+overlay | Rehab/Reconstruct |
| Roughness, Long Wavelength Swells | Asphalt Overlay/Mill+overlay | Do Nothing |
| Roughness, Many Long Wavelength Swells | Patch/Reconstruct area | Asphalt Overlay/Mill+overlay |
| Roughness,No Swell, Many Short Wave Bump | Patch/Reconstruct area | Asphalt Overlay/Mill+overlay |

Table 9. **Regional Category- Wet Freeze Zone**

|  |  |  |
| --- | --- | --- |
|  | **Regional Category- Wet Freeze Zone RWF** | |
| Ques | Accept | Best |
| Starting to weather (losing fines) | Slurry/Micro, Fog/Coal tar Seal | Rejuvenator |
| Definitely Weathering (losing fines) | Fog/Coal Tar Seal, or Rejuvenator | Slurry/Micro |
| Starting to ravel (larger rock starting to pop out) | Fog/Coal Tar Seal, or Rejuvenator | Slurry/Micro |
| Definitely raveling and losing rock | Slurry/Micro, or Chip/Cape seal | Asphalt Overlay/Mill+overlay |
| Few longitudinal cracks or joints, Low severity | Do Nothing | Crack Seal/fill |
| Few longitudinal cracks or joints Mod severity | Crack Seal/fill | Crack Seal/fill |
| Few longitudinal cracks or joints- High severity | Crack Seal/fill, or Asphalt Overlay/Mill+Overlay | Patch/Reconstruct area |
| Many longitudinal cracks- Low sev | Do Nothing | Crack Seal/fill |
| Many longitudinal cracks- Mod sev | Asphalt Overlay/Mill+overlay | Crack Seal/fill |
| Many longitudinal cracks- High severity | Asphalt Overlay/Mill+overlay | Rehab/Reconstruct |
| A few edge cracks- Low severity | Do Nothing | Crack Seal/fill |
| A few edge cracks- Moderate severity | Patch/Reconstruct area | Crack Seal/fill |
| A few edge cracks- High severity | Crack Seal/fill | Patch/Reconstruct area |
| Transverse cracks spaced 50 ft apart Low sev | Do Nothing | Crack Seal/fill |
| Transverse cracks spaced 50 ft apart Mod sev | Rejuvenator, Fog/Coal tar Seal | Crack Seal/fill |
| Transverse cracks spaced 50 ft apart High sev | Crack Seal/fill | Patch/Reconstruct area |
| Transverse cracks spaced 20 ft apart- Low sev | Do Nothing | Crack Seal/fill |
| Transverse cracks spaced 20 ft apart Mod sev | Asphalt Overlay/Mill+overlay | Crack Seal/fill |
| Transverse cracks spaced 20 ft apart High sev | Chip/Cape seal | Asphalt Overlay/Mill+overlay |
| Block cracking Low severity | Do Nothing | Crack Seal/fill |
| Block cracking Moderate severity | Chip/Cape seal | Crack Seal/fill |
| Block cracking High severity | Rehab/Reconstruct | Asphalt Overlay/Mill+overlay |
| Reflection cracking Low severity | Do Nothing | Crack Seal/fill |
| Reflection cracking Mod severity | Crack Seal/fill | Crack Seal/fill |
| Reflection cracking High severity | Rehab/Reconstruct | Patch/Reconstruct area |
| Fatigue cracking- 10% Low severity | Patch/Reconstruct area | Crack Seal/fill |
| Fatigue cracking- 10% Mod severity | Crack Seal/fill | Patch/Reconstruct area |
| Fatigue cracking- 10% High severity | Asphalt Overlay/Mill+overlay | Patch/Reconstruct area |
| Fatigue cracking- 30% Fatigue cracking Low sev | Patch/Reconstruct area | Asphalt Overlay/Mill+overlay |
| Fatigue cracking- 30% Moderate sev | Patch/Reconstruct area | Asphalt Overlay/Mill+overlay |
| Fatigue cracking- 30% High sev | Patch/Reconstruct area | Rehab/Reconstruct |
| Patching- 10% Low severity | Crack Seal/fill | Do Nothing |
| Patching- 10% Moderate severity | Crack Seal/fill | Patch/Reconstruct area |
| Patching- 10% High severity | Asphalt Overlay/Mill+overlay | Patch/Reconstruct area |
| Patching- 30% Low severity | Slurry/Micro | Do Nothing |
| Patching- 30% Moderate severity | Patch/Reconstruct area | Asphalt Overlay/Mill+overlay |
| Patching- 30% High severity | Asphalt Overlay/Mill+overlay | Patch/Reconstruct area |
| Roughness, Long Wavelength Swells | Asphalt Overlay/Mill+overlay | Do Nothing |
| Roughness- Many Long Wave Swells | Patch/Reconstruct area | Asphalt Overlay/Mill+overlay |
| Roughness- No Swells, Many Short Wavelength Bumps | Patch/Reconstruct area | Asphalt Overlay/Mill+overlay |

Table 10. **Regional Category- Dry Freeze Zone**

|  |  |  |
| --- | --- | --- |
|  | **Regional Category- Dry Freeze Zone RDF** | |
| Ques | Accept | Best |
| Starting to weather (losing fines) | Do Nothing | Slurry/Micro, Fog/Coal tar Seal, Rejuvenator |
| Definitely Weathering (losing fines) | Slurry/Micro | Rejuvenator |
| Starting to ravel (large rock start to pop) | Asphalt Overlay/Mill+overlay | Slurry/Micro, or Chip/Cape seal |
| Definitely raveling and losing rock | Slurry/Micro, or Chip/Cape seal | Asphalt Overlay/Mill+overlay |
| Few long cracks or joints, Low severity | Do Nothing | Crack Seal/fill |
| Few long cracks or joints Mod severity | Crack Seal/fill | Crack Seal/fill |
| Few long cracks or joints- High severity | Crack Seal/fill | Patch/Reconstruct area |
| Many longitudinal cracks- Low sev | Do Nothing | Crack Seal/fill |
| Many longitudinal cracks- Mod sev | Asphalt Overlay/Mill+overlay | Crack Seal/fill |
| Many longitudinal cracks- High severity | Crack Seal/fill | Rehab/Reconstruct |
| A few edge cracks- Low severity | Crack Seal/fill | Do Nothing |
| A few edge cracks- Moderate severity | Patch/Reconstruct area | Crack Seal/fill |
| A few edge cracks- High severity | Patch/Reconstruct area | Asphalt Overlay/Mill+overlay |
| Transverse cracks, 50 ft apart Low sev | Crack Seal/fill | Do Nothing |
| Transverse cracks, 50 ft apart Mod sev | Do Nothing | Crack Seal/fill |
| Transverse cracks, 50 ft apart High sev | Asphalt Overlay/Mill+overlay | Crack Seal/fill |
| Transverse cracks, 20 ft apart- Low sev | Do Nothing | Crack Seal/fill |
| Transverse cracks, 20 ft apart Mod sev | Chip/Cape Seal, or Asphalt overlay/Mill+ overlay | Crack Seal/fill |
| Transverse cracks,20 ft apart High sev | Chip/Cape Seal, or Asphalt overlay/Mill+ overlay | Crack Seal/fill |
| Block cracking Low severity | Do Nothing | Crack Seal/fill |
| Block cracking Moderate severity | Chip/Cape seal | Crack Seal/fill |
| Block cracking High severity | Slurry/Micro, or Chip/Cape seal, or Asphalt Overlay/Mill+overlay | Rehab/Reconstruct |
| Reflection cracking Low severity | Crack Seal/fill | Do Nothing |
| Reflection cracking Mod severity | Crack Seal/fill | Crack Seal/fill |
| Reflection cracking High severity | Patch/Reconstruct area | Rehab/Reconstruct |
| Fatigue cracking- 10% Low severity | Patch/Reconstruct area | Crack Seal/fill |
| Fatigue cracking- 10% Mod severity | Crack Seal/fill | Patch/Reconstruct area |
| Fatigue cracking- 10% High severity | Asphalt Overlay/Mill+overlay | Patch/Reconstruct area |
| Fatigue cracking- 30% Low sev | Asphalt Overlay/Mill+overlay | Patch/Reconstruct area |
| Fatigue cracking- 30% Moderate sev | Patch/Reconstruct area | Rehab/Reconstruct |
| Fatigue cracking- 30% High sev | Patch/Reconstruct area | Rehab/Reconstruct |
| Patching- 10% Low severity | Crack Seal/fill | Do Nothing |
| Patching- 10% Moderate severity | Crack Seal/fill | Do Nothing |
| Patching- 10% High severity | Asphalt Overlay/Mill+overlay | Patch/Reconstruct area |
| Patching- 30% Low severity | Asphalt Overlay/Mill+overlay | Do Nothing |
| Patching- 30% Moderate severity | Chip/Cape Seal, or Asphalt Overlay/Mill+overlay | Asphalt Overlay/Mill+overlay |
| Patching- 30% High severity | Asphalt Overlay/Mill+overlay | Patch/Reconstruct area |
| Roughness, Long Wavelength Swells | Do Nothing | Asphalt Overlay/Mill+overlay |
| Roughness- Many Long Wave Swells | Patch/Reconstruct area | Asphalt Overlay/Mill+overlay |
| Roughness- No Swell, Many Short Wave Bump | Patch/Reconstruct area | Asphalt Overlay/Mill+overlay |

Table 11. **Regional Category- Dry No Freeze Zone**

|  |  |  |
| --- | --- | --- |
|  | **Regional Category- Dry No Freeze Zone RDN** | |
| Ques | Accept | Best |
| Starting to weather (losing fines) | Slurry/Micro | Rejuvenator |
| Definitely Weathering (losing fines) | Chip/Cape seal | Fog/Coal tar Seal |
| Starting to ravel (larger rock starting to pop out) | Chip/Cape seal | Slurry/Micro |
| Definitely raveling and losing rock | Slurry/Micro, or Chip/Cape seal | Asphalt Overlay/Mill+overlay |
| Few longitudinal cracks or joints, Low severity | Do Nothing | Crack Seal/fill |
| Few longitudinal cracks or joints Mod severity | Crack Seal/fill | Crack Seal/fill |
| Few longitudinal cracks or joints- High severity | Crack Seal/fill | Patch/Reconstruct area |
| Many longitudinal cracks- Low sev | Do Nothing | Crack Seal/fill |
| Many longitudinal cracks- Mod sev | Crack Seal/fill | Crack Seal/fill |
| Many longitudinal cracks- High severity | Crack Seal/fill | Asphalt Overlay/Mill+overlay |
| A few edge cracks- Low severity | Do Nothing | Crack Seal/fill |
| A few edge cracks- Moderate severity | Patch/Reconstruct area | Crack Seal/fill |
| A few edge cracks- High severity | Crack Seal/fill | Patch/Reconstruct area |
| Transverse cracks spaced 50 ft apart Low sev | Do Nothing | Crack Seal/fill |
| Transverse cracks spaced 50 ft apart Mod sev | Do Nothing | Crack Seal/fill |
| Transverse cracks spaced 50 ft apart High sev | Crack Seal/fill | Patch/Reconstruct area |
| Transverse cracks spaced 20 ft apart- Low sev | Do Nothing | Crack Seal/fill |
| Transverse cracks spaced 20 ft apart Mod sev | Crack Seal/fill, or Asphalt overlay/Mill+overlay | Crack Seal/fill |
| Transverse cracks spaced 20 ft apart High sev | Crack Seal/fill | Asphalt Overlay/Mill+overlay |
| Block cracking Low severity | Do Nothing | Crack Seal/fill |
| Block cracking Moderate severity | Chip/Cape seal | Crack Seal/fill |
| Block cracking High severity | Chip/Cape seal | Asphalt Overlay/Mill+overlay |
| Reflection cracking Low severity | Do Nothing | Crack Seal/fill |
| Reflection cracking Mod severity | Crack Seal/fill | Crack Seal/fill |
| Reflection cracking High severity | Rehab/Reconstruct | Patch/Reconstruct area |
| Fatigue cracking- 10% Low severity | Do Nothing | Crack Seal/fill |
| Fatigue cracking- 10% Mod severity | Crack Seal/fill | Patch/Reconstruct area |
| Fatigue cracking- 10% High severity | Rehab/Reconstruct | Patch/Reconstruct area |
| Fatigue cracking- 30% Fatigue cracking Low sev | Patch/Reconstruct area | Asphalt Overlay/Mill+overlay |
| Fatigue cracking- 30% Moderate sev | Patch/Reconstruct area | Asphalt Overlay/Mill+overlay |
| Fatigue cracking- 30% High sev | Patch/Reconstruct area | Rehab/Reconstruct |
| Patching- 10% Low severity | Do Nothing | Crack Seal/fill |
| Patching- 10% Moderate severity | Crack Seal/fill | Patch/Reconstruct area |
| Patching- 10% High severity | Asphalt Overlay/Mill+overlay | Patch/Reconstruct area |
| Patching- 30% Low severity | Slurry/Micro | Do Nothing |
| Patching- 30% Moderate severity | Chip/Cape seal | Asphalt Overlay/Mill+overlay |
| Patching- 30% High severity | Asphalt Overlay/Mill+overlay | Rehab/Reconstruct |
| Roughness, Long Wavelength Swells | Asphalt Overlay/Mill+overlay | Do Nothing |
| Roughness- Many Long Wavelength Swells | Patch/Reconstruct area | Asphalt Overlay/Mill+overlay |
| Roughness- No Swells, Many Short Wavelength Bumps | Patch/Reconstruct area | Asphalt Overlay/Mill+overlay |

Table 12. **Regional Category- Wet No Freeze Zone**

|  |  |  |
| --- | --- | --- |
|  | **Regional Category- Wet No Freeze Zone RWN** | |
| Ques | Accept | Best |
| Starting to weather (losing fines) | Fog/Coal tar Seal | Rejuvenator |
| Definitely Weathering (losing fines) | Rejuvenator | Slurry/Micro |
| Starting to ravel (larger rock start to pop out) | Rejuvenator | Slurry/Micro |
| Definitely raveling and losing rock | Slurry/Micro, or Chip/Cape seal | Asphalt Overlay/Mill+overlay |
| Few longitudinal cracks or joints, Low severity | Do Nothing | Crack Seal/fill |
| Few longitudinal cracks or joints Mod severity | Do Nothing | Crack Seal/fill |
| Few longitudinal cracks or joints- High severity | Crack Seal/fill | Patch/Reconstruct area |
| Many longitudinal cracks- Low sev | Do Nothing | Crack Seal/fill |
| Many longitudinal cracks- Mod sev | Asphalt Overlay/Mill+overlay | Crack Seal/fill |
| Many longitudinal cracks- High severity | Patch/Reconstruct area | Asphalt Overlay/Mill+overlay |
| A few edge cracks- Low severity | Crack Seal/fill | Do Nothing |
| A few edge cracks- Moderate severity | Patch/Reconstruct area | Crack Seal/fill |
| A few edge cracks- High severity | Crack Seal/fill | Patch/Reconstruct area |
| Trans cracks spaced 50 ft apart Low sev | Do Nothing | Crack Seal/fill |
| Trans cracks spaced 50 ft apart Mod sev | Crack Seal/fill | Crack Seal/fill |
| Trans cracks spaced 50 ft apart High sev | Patch/Reconstruct area | Crack Seal/fill |
| Trans cracks spaced 20 ft apart- Low sev | Do Nothing | Crack Seal/fill |
| Trans cracks spaced 20 ft apart Mod sev | Asphalt Overlay/Mill+overlay | Crack Seal/fill |
| Trans cracks spaced 20 ft apart High sev | Chip/Cape seal | Asphalt Overlay/Mill+overlay |
| Block cracking Low severity | Do Nothing | Crack Seal/fill |
| Block cracking Moderate severity | Asphalt Overlay/Mill+overlay | Crack Seal/fill |
| Block cracking High severity | Rehab/Reconstruct | Asphalt Overlay/Mill+overlay |
| Reflection cracking Low severity | Crack Seal/fill | Do Nothing |
| Reflection cracking Mod severity | Crack Seal/fill | Crack Seal/fill |
| Reflection cracking High severity | Crack Seal/fill | Patch/Reconstruct area |
| Fatigue cracking- 10% Low severity | Crack Seal/fill | Do Nothing |
| Fatigue cracking- 10% Mod severity | Crack Seal/fill | Patch/Reconstruct area |
| Fatigue cracking- 10% High severity | Asphalt overlay/mill+ overlay, or Patch/Reconstruct area | Patch/Reconstruct area |
| Fatigue cracking- 30% Fatigue cracking Low sev | Patch/Reconstruct area | Asphalt Overlay/Mill+overlay |
| Fatigue cracking- 30% Moderate sev | Asphalt Overlay/Mill+overlay | Patch/Reconstruct Area |
| Fatigue cracking- 30% High sev | Patch/Reconstruct area | Rehab/Reconstruct |
| Patching- 10% Low severity | Crack Seal/fill | Do Nothing |
| Patching- 10% Moderate severity | Crack Seal/fill | Patch/Reconstruct area |
| Patching- 10% High severity | Asphalt Overlay/Mill+overlay | Patch/Reconstruct area |
| Patching- 30% Low severity | Slurry/Micro, or Chip/Cape seal | Do Nothing |
| Patching- 30% Moderate severity | Patch/Reconstruct area | Asphalt Overlay/Mill+overlay |
| Patching- 30% High severity | Asphalt Overlay/Mill+overlay | Rehab/Reconstruct |
| Roughness, Long Wavelength Swells | Asphalt Overlay/Mill+overlay | Do Nothing |
| Roughness- Many Long Wavelength Swells | Asphalt Overlay/Mill+overlay, or Do Nothing | Patch/Reconstruct area |
| Roughness- No Swell, Many Short Wave Bump | Asphalt Overlay/Mill+overlay | Patch/Reconstruct area |

Table 13. **Regional Category- Wet Freeze Zone**

|  |  |  |
| --- | --- | --- |
|  | **Local Category- Wet Freeze Zone LWF** | |
| Ques | Accept | Best |
| Starting to weather (losing fines) | Rejuvenator | Do Nothing |
| Definitely Weathering (losing fines) | Fog/Coal tar Seal | Rejuvenator |
| Starting to ravel (larger rock starting to pop out) | Fog/Coal tar Seal | Slurry/Micro |
| Definitely raveling and losing rock | Slurry/Micro, or Chip/Cape seal | Asphalt Overlay/Mill+overlay |
| Few longitudinal cracks or joints, Low severity | Do Nothing | Crack Seal/fill |
| Few longitudinal cracks or joints Mod severity | Crack Seal/fill | Crack Seal/fill |
| Few longitudinal cracks or joints- High severity | Crack Seal/fill | Patch/Reconstruct area |
| Many longitudinal cracks- Low sev | Rejuvenator, or Fog/Coal Tar seal | Crack Seal/fill |
| Many longitudinal cracks- Mod sev | Asphalt overlay/mill+ overlay | Crack Seal/fill |
| Many longitudinal cracks- High severity | Rehab/Reconstruct | Asphalt overlay/mill+ overlay |
| A few edge cracks- Low severity | Do Nothing | Crack Seal/fill |
| A few edge cracks- Moderate severity | Patch/Reconstruct area | Crack Seal/fill |
| A few edge cracks- High severity | Crack Seal/fill | Patch/Reconstruct area |
| Transverse cracks spaced 50 ft apart Low sev | Do Nothing | Crack Seal/fill |
| Transverse cracks spaced 50 ft apart Mod sev | Crack Seal/fill | Crack Seal/fill |
| Transverse cracks spaced 50 ft apart High sev | Patch/Reconstruct area | Asphalt Overlay/Mill+overlay |
| Transverse cracks spaced 20 ft apart- Low sev | Do Nothing | Crack Seal/fill |
| Transverse cracks spaced 20 ft apart Mod sev | Crack Seal/fill | Asphalt Overlay/Mill+overlay |
| Transverse cracks spaced 20 ft apart High sev | Chip/Cape seal | Asphalt Overlay/Mill+overlay |
| Block cracking Low severity | Rejuvenator | Crack Seal/fill |
| Block cracking Moderate severity | Asphalt Overlay/Mill+overlay | Crack Seal/fill |
| Block cracking High severity | Rehab/Reconstruct | Asphalt Overlay/Mill+overlay |
| Reflection cracking Low severity | Do Nothing | Crack Seal/fill |
| Reflection cracking Mod severity | Crack Seal/fill | Crack Seal/fill |
| Reflection cracking High severity | Rehab/Reconstruct | Patch/Reconstruct area |
| Fatigue cracking- 10% Low severity | Do Nothing | Crack Seal/fill |
| Fatigue cracking- 10% Mod severity | Crack Seal/fill | Patch/Reconstruct area |
| Fatigue cracking- 10% High severity | Asphalt Overlay/Mill+overlay | Patch/Reconstruct area |
| Fatigue cracking- 30% Low sev | Rehab/Reconstruct | Asphalt Overlay/Mill+overlay |
| Fatigue cracking- 30% Moderate sev | Rehab/Reconstruct | Asphalt Overlay/Mill+overlay |
| Fatigue cracking- 30% High sev | Asphalt Overlay/Mill+overlay | Rehab/Reconstruct |
| Patching- 10% Low severity | Crack Seal/fill | Do Nothing |
| Patching- 10% Moderate severity | Patch/Reconstruct area | Crack Seal/fill |
| Patching- 10% High severity | Chip/Cape Seal | Patch/Reconstruct area |
| Patching- 30% Low severity | Crack Seal/fill | Do Nothing |
| Patching- 30% Moderate severity | Asphalt Overlay/Mill+overlay | Patch/Reconstruct area |
| Patching- 30% High severity | Patch/Reconstruct area | Asphalt Overlay/Mill+overlay |
| Roughness, Long Wavelength Swells | Do Nothing | Do Nothing |
| Roughness- Many Long Wavelength Swells | Patch/Reconstruct area | Asphalt Overlay/Mill+overlay |
| Roughness-No Swell, Many Short Wave Bump | Patch/Reconstruct area | Asphalt Overlay/Mill+overlay |

Table 14. **Local Category- Dry Freeze Zone**

|  |  |  |
| --- | --- | --- |
|  | **Local Category- Dry Freeze Zone LDF** | |
| Ques | Accept | Best |
| Starting to weather (losing fines) | Rejuvenator | Slurry/Micro, or Fog/Coal Tar Seal |
| Definitely Weathering (losing fines) | Rejuvenator | Slurry/Micro, or Fog/Coal Tar Seal |
| Starting to ravel (larger rock starting to pop out) | Asphalt Overlay/Mill+overlay | Slurry/Micro, or Fog/Coal tar Seal |
| Definitely raveling and losing rock | Slurry/Micro, or Chip/Cape seal | Asphalt Overlay/Mill+overlay |
| Few longitudinal cracks or joints, Low severity | Rejuvenator | Crack Seal/fill |
| Few longitudinal cracks or joints Mod severity | Fog/Coal tar Seal | Crack Seal/fill |
| Few longitudinal cracks or joints- High severity | Crack Seal/fill | Patch/Reconstruct area |
| Many longitudinal cracks- Low sev | Fog/Coal Tar Seal, or Rejuvenator | Crack Seal/fill |
| Many longitudinal cracks- Mod sev | Asphalt overlay/Mill+overlay | Crack Seal/fill |
| Many longitudinal cracks- High severity | Asphalt overlay/Mill+overlay | Rehab/Reconstruct |
| A few edge cracks- Low severity | Crack Seal/fill | Do Nothing |
| A few edge cracks- Moderate severity | Patch/Reconstruct area | Crack Seal/fill |
| A few edge cracks- High severity | Crack Seal/fill | Patch/Reconstruct area |
| Transverse cracks spaced 50 ft apart Low sev | Do Nothing | Crack Seal/fill |
| Transverse cracks spaced 50 ft apart Mod sev | Crack Seal/fill | Crack Seal/fill |
| Transverse cracks spaced 50 ft apart High sev | Crack Seal/fill | Asphalt Overlay/Mill+overlay |
| Transverse cracks spaced 20 ft apart- Low sev | Do Nothing | Crack Seal/fill |
| Transverse cracks spaced 20 ft apart Mod sev | Crack Seal/fill | Crack Seal/fill |
| Transverse cracks spaced 20 ft apart High sev | Crack Seal/fill | Asphalt Overlay/Mill+overlay |
| Block cracking Low severity | Do Nothing | Fog/Coal Tar seal |
| Block cracking Moderate severity | Crack Seal/fill | Asphalt Overlay/Mill+overlay |
| Block cracking High severity | Asphalt Overlay/Mill+ overlay | Rehab/Reconstruct |
| Reflection cracking Low severity | Do Nothing | Crack Seal/fill |
| Reflection cracking Mod severity | Crack Seal/fill | Crack Seal/fill |
| Reflection cracking High severity | Patch/Reconstruct area | Rehab/Reconstruct |
| Fatigue cracking- 10% Low severity | Fog/Coal Tar Seal, or Rejuvenator | Crack Seal/fill |
| Fatigue cracking- 10% Mod severity | Crack Seal/fill | Patch/Reconstruct area |
| Fatigue cracking- 10% High severity | Asphalt overlay/Mill+ overlay | Patch/Reconstruct area |
| Fatigue cracking- 30% Low sev | Fog/Coal tar Seal | Asphalt overlay/Mill+ overlay |
| Fatigue cracking- 30% Moderate sev | Patch/Reconstruct area | Asphalt overlay/Mill+ overlay |
| Fatigue cracking- 30% High sev | Patch/Reconstruct area | Rehab/Reconstruct |
| Patching- 10% Low severity | Crack Seal/fill | Do Nothing |
| Patching- 10% Moderate severity | Patch/Reconstruct area | Do Nothing |
| Patching- 10% High severity | Asphalt overlay/Mill+ overlay | Patch/Reconstruct area |
| Patching- 30% Low severity | Crack Seal/fill | Do Nothing |
| Patching- 30% Moderate severity | Patch/Reconstruct area | Chip/Cape Seal |
| Patching- 30% High severity | Rehab/Reconstruct | Asphalt overlay/Mill+ overlay |
| Roughness, Long Wavelength Swells | Patch/Reconstruct area | Do Nothing |
| Roughness- Many Long Wavelength Swells | Patch/Reconstruct area | Asphalt Overlay/Mill+overlay |
| Roughness-No Swell, Many Short Wave Bump | Patch/Reconstruct area | Asphalt Overlay/Mill+overlay |

Table 15. **Local Category- Dry No Freeze Zone**

|  |  |  |
| --- | --- | --- |
|  | **Local Category- Dry No Freeze Zone LDN** | |
| Ques | Accept | Best |
| Starting to weather (losing fines) | Slurry/Micro, or Chip/Cape seal | Fog/Coal tar Seal |
| Definitely Weathering (losing fines) | Slurry/Micro, or Chip/Cape seal | Fog/Coal tar Seal |
| Starting to ravel (large rock start to pop) | Slurry/Micro, or Chip/Cape seal | Fog/Coal tar Seal |
| Definitely raveling and losing rock | Slurry/Micro, or Chip/Cape seal | Fog/Coal tar Seal |
| Few longitudinal crack/joint, Low sev | Do Nothing | Crack Seal/fill |
| Few longitudinal crack/joint Mod sev | Do Nothing | Crack Seal/fill |
| Few longitudinal crack/joint- High sev | Crack Seal/fill | Patch/Reconstruct area |
| Many longitudinal cracks- Low sev | Fog/Coal tar Seal | Chip/Cape seal |
| Many longitudinal cracks- Mod sev | Slurry/Micro, or Fog/Coal tar Seal, or Crack Seal | Chip/Cape seal |
| Many longitudinal cracks- High severity | Patch/Reconstruct area | Asphalt Overlay/Mill+overlay |
| A few edge cracks- Low severity | Do Nothing | Crack Seal/fill |
| A few edge cracks- Moderate severity | Do Nothing | Crack Seal/fill |
| A few edge cracks- High severity | Patch/Reconstruct area | Crack Seal/fill |
| Trans cracks spaced 50 ft apart Low sev | Crack Seal/fill | Do Nothing |
| Trans cracks spaced 50 ft apart Mod sev | Do Nothing | Crack Seal/fill |
| Trans cracks spaced 50 ft apart High sev | Asphalt Overlay/Mill+overlay | Crack Seal/fill |
| Trans cracks spaced 20 ft apart- Low sev | Crack Seal/fill | Fog/Coal tar Seal |
| Trans cracks spaced 20 ft apart Mod sev | Chip/Cape seal | Asphalt Overlay/Mill+overlay |
| Trans cracks spaced 20 ft apart High sev | Chip/Cape seal | Asphalt Overlay/Mill+overlay |
| Block cracking Low severity | Do Nothing, or Crack Seal/Fill | Fog/Coal tar Seal |
| Block cracking Moderate severity | Crack Seal/Fill | Chip/Cape seal |
| Block cracking High severity | Crack Seal/Fill | Asphalt Overlay/Mill+overlay |
| Reflection cracking Low severity | Do Nothing | Crack Seal/fill |
| Reflection cracking Mod severity | Do Nothing | Crack Seal/fill |
| Reflection cracking High severity | Crack Seal/Fill | Patch/Reconstruct area |
| Fatigue cracking- 10% Low severity | Crack Seal/Fill | Do Nothing |
| Fatigue cracking- 10% Mod severity | Do Nothing, or Crack Seal/Fill | Patch/Reconstruct area |
| Fatigue cracking- 10% High severity | Asphalt Overlay/Mill+overlay | Patch/Reconstruct area |
| Fatigue cracking- 30% Low sev | Patch/Reconstruct area | Asphalt Overlay/Mill+overlay |
| Fatigue cracking- 30% Moderate sev | Asphalt Overlay/Mill+overlay, or Patch/Reconstruct area | Rehab/Reconstruct |
| Fatigue cracking- 30% High sev | Asphalt Overlay/Mill+overlay, or Patch/Reconstruct area | Rehab/Reconstruct |
| Patching- 10% Low severity | Crack Seal/fill | Do Nothing |
| Patching- 10% Moderate severity | Do Nothing | Patch/Reconstruct area |
| Patching- 10% High severity | Asphalt Overlay/Mill+overlay | Patch/Reconstruct area |
| Patching- 30% Low severity | Slurry/Micro, or Chip/Cape Seal | Do Nothing |
| Patching- 30% Moderate severity | Slurry/Micro, or Fog/Coal tar Seal | Chip/Cape Seal |
| Patching- 30% High severity | Patch/Reconstruct area, or Rehab/Reconstruct | Asphalt Overlay/Mill+overlay |
| Roughness, Long Wavelength Swells | Patch/Reconstruct area | Do Nothing |
| Roughness- Many Long Wave Swells | Patch/Reconstruct area | Asphalt Overlay/Mill+overlay |
| Roughness-No Swell, Many Short Wave Bump | Patch/Reconstruct area | Asphalt Overlay/Mill+overlay |

Table 16. **Local Category- Wet No Freeze Zone**

|  |  |  |
| --- | --- | --- |
|  | **Local Category- Wet No Freeze Zone LWN** | |
| Ques | Accept | Best |
| Starting to weather (losing fines) | Fog/Coal tar Seal | Rejuvenator |
| Definitely Weathering (losing fines) | Rejuvenator, or Fog/Coal tar Seal | Slurry/Micro |
| Starting to ravel (larger rock starting to pop out) | Rejuvenator, or Fog/Coal tar Seal | Slurry/Micro |
| Definitely raveling and losing rock | Slurry/Micro, or Chip/Cape seal | Asphalt Overlay/Mill+overlay |
| Few longitudinal cracks or joints, Low severity | Do Nothing | Crack Seal/fill |
| Few longitudinal cracks or joints Mod severity | Do Nothing | Crack Seal/fill |
| Few longitudinal cracks or joints- High severity | Crack Seal/fill | Patch/Reconstruct area |
| Many longitudinal cracks- Low sev | Rejuvenator | Chip/Cape seal |
| Many longitudinal cracks- Mod sev | Asphalt Overlay/Mill+overlay | Chip/Cape seal |
| Many longitudinal cracks- High severity | Crack Seal/fill | Asphalt Overlay/Mill+overlay |
| A few edge cracks- Low severity | Do Nothing | Crack Seal/fill |
| A few edge cracks- Moderate severity | Patch/Reconstruct area | Crack Seal/fill |
| A few edge cracks- High severity | Crack Seal/fill | Patch/Reconstruct area |
| Trans cracks spaced 50 ft apart Low sev | Do Nothing | Crack Seal/fill |
| Trans cracks spaced 50 ft apart Mod sev | Crack Seal/fill | Crack Seal/fill |
| Trans cracks spaced 50 ft apart High sev | Patch/Reconstruct area | Asphalt Overlay/Mill+overlay |
| Trans cracks spaced 20 ft apart- Low sev | Do Nothing | Crack Seal/fill |
| Trans cracks spaced 20 ft apart Mod sev | Crack Seal/fill | Asphalt Overlay/Mill+overlay |
| Trans cracks spaced 20 ft apart High sev | Crack Seal/fill | Asphalt Overlay/Mill+overlay |
| Block cracking Low severity | Do Nothing | Crack Seal/fill |
| Block cracking Moderate severity | Rejuvenator | Crack Seal/fill |
| Block cracking High severity | Rehab/Reconstruct | Asphalt Overlay/Mill+overlay |
| Reflection cracking Low severity | Do Nothing | Crack Seal/fill |
| Reflection cracking Mod severity | Crack Seal/fill | Crack Seal/fill |
| Reflection cracking High severity | Patch/Reconstruct area | Rehab/Reconstruct |
| Fatigue cracking- 10% Low severity | Rejuvenator | Patch/Reconstruct area |
| Fatigue cracking- 10% Mod severity | Rejuvenator | Patch/Reconstruct area |
| Fatigue cracking- 10% High severity | Rejuvenator | Patch/Reconstruct area |
| Fatigue cracking- 30% Low sev | Rejuvenator | Patch/Reconstruct area |
| Fatigue cracking- 30% Moderate sev | Rejuvenator | Patch/Reconstruct area |
| Fatigue cracking- 30% High sev | Patch/Reconstruct area | Rehab/Reconstruct |
| Patching- 10% Low severity | Crack Seal/Fill | Do Nothing |
| Patching- 10% Moderate severity | Crack Seal/Fill | Patch/Reconstruct area |
| Patching- 10% High severity | Asphalt Overlay/Mill+overlay | Patch/Reconstruct area |
| Patching- 30% Low severity | Crack Seal/Fill | Do Nothing |
| Patching- 30% Moderate severity | Slurry/Micro, or Chip/Cape seal | Patch/Reconstruct area |
| Patching- 30% High severity | Asphalt Overlay/Mill+overlay | Patch/Reconstruct area |
| Roughness, Long Wavelength Swells | Patch/Reconstruct area | Do Nothing |
| Roughness- Many Long Wavelength Swells | Patch/Reconstruct area | Do Nothing |
| Roughness-No Swell, Many Short Wave Bump | Patch/Reconstruct area | Asphalt Overlay/Mill+overlay |

Table 17. **Basic Category- Wet Freeze Zone**

|  |  |  |
| --- | --- | --- |
|  | **Basic Category- Wet Freeze Zone BWF** | |
| Ques | Accept | Best |
| Starting to weather (losing fines) | Fog/Coal Tar Seal, Rejuvenator | Do Nothing |
| Definitely Weathering (losing fines) | Do Nothing | Fog/Coal Tar Seal, Rejuvenator |
| Start to ravel(large rock start to pop) | Fog/Coal Tar Seal, Rejuvenator | Chip/Cape seal |
| Definitely raveling and losing rock | Chip/Cape seal | Asphalt Overlay/Mill+overlay |
| Few long cracks or joints, Low sev | Do Nothing | Crack Seal/fill |
| Few long cracks or joints Mod sev | Do Nothing | Crack Seal/fill |
| Few long cracks or joints- High sev | Crack Seal/Fill | Patch/Reconstruct area |
| Many longitudinal cracks- Low sev | Do Nothing, or Asphalt Overlay/Mill+overlay | Crack Seal/fill |
| Many longitudinal cracks- Mod sev | Patch/Reconstruct area, or Do Nothing | Crack Seal/fill |
| Many longitudinal cracks- High sev | Asphalt Overlay/Mill+overlay | Patch/Reconstruct area |
| A few edge cracks- Low severity | Crack Seal/fill | Do Nothing |
| A few edge cracks- Mod sev | Asphalt Overlay/Mill+overlay, or Patch/Recon | Crack Seal/fill |
| A few edge cracks- High severity | Asphalt Overlay/Mill+overlay | Patch/Reconstruct area |
| Trans crack, 50 ft apart Low sev | Do Nothing | Crack Seal/fill |
| Trans crack,50 ft apart Mod sev | Asphalt Overlay/Mill+overlay, or Do Nothing | Crack Seal/fill |
| Trans crack, 50 ft apart High sev | Crack Seal/fill | Patch/Reconstruct area |
| Trans crack, 20 ft apart- Low sev | Do Nothing | Crack Seal/fill |
| Trans crack, 20 ft apart Mod sev | Asphalt Overlay/Mill+overlay, or Do Nothing | Crack Seal/fill |
| Trans crack, 20 ft apart High sev | Crack Seal/fill | Asphalt Overlay/Mill+overlay |
| Block cracking Low severity | Do Nothing | Crack Seal/fill |
| Block cracking Moderate severity | Do Nothing | Crack Seal/fill |
| Block cracking High severity | Chip/Cape seal | Asphalt Overlay/Mill+overlay |
| Reflection cracking Low severity | Do Nothing | Crack Seal/fill |
| Reflection cracking Mod severity | Asphalt Overlay/Mill+overlay, or Do Nothing | Crack Seal/fill |
| Reflection cracking High severity | Asphalt Overlay/Mill+overlay, or Rehab/Recon | Patch/Reconstruct area |
| Fatigue cracking- 10% Low sev | Do Nothing | Crack Seal/fill |
| Fatigue cracking- 10% Mod sev | Fog/Coal tar Seal | Patch/Reconstruct area |
| Fatigue cracking- 10% High sev | Asphalt Overlay/Mill+overlay | Patch/Reconstruct area |
| Fatigue cracking- 30% Low sev | Fog/Coal tar Seal | Asphalt Overlay/Mill+overlay, or Rehab/Reconstruct |
| Fatigue cracking- 30% Mod sev | Patch/Reconstruct area, or Rehab/Recon | Asphalt Overlay/Mill+overlay |
| Fatigue cracking- 30% High sev | Asphalt Overlay/Mill+overlay, or Patch/Recon | Rehab/Reconstruct |
| Patching- 10% Low severity | Slurry/Micro | Do Nothing |
| Patching- 10% Moderate severity | Do Nothing | Slurry/Micro, or Patch/Reconstruct area |
| Patching- 10% High severity | Patch/Reconstruct area | Asphalt Overlay/Mill+overlay |
| Patching- 30% Low severity | Fog/Coal tar Seal | Do Nothing |
| Patching- 30% Moderate severity | Fog/Coal tar Seal | Patch/Reconstruct area |
| Patching- 30% High severity | Patch/Reconstruct area | Asphalt Overlay/Mill+overlay |
| Roughness, Long Wave Swells | Patch/Reconstruct area | Do Nothing |
| Roughness-Many Long Wave Swell | Patch/Reconstruct area | Asphalt Overlay/Mill+overlay |
| Roughness-No Swell, Many Short Wave Bump | Patch/Reconstruct area | Asphalt Overlay/Mill+overlay |

Table 186. **Basic Category- Dry Freeze Zone**

|  |  |  |
| --- | --- | --- |
|  | **Basic Category- Dry Freeze Zone BDF** | |
| Ques | Accept | Best |
| Starting to weather (losing fines) | Fog/Coal tar Seal | Rejuvenator |
| Definitely Weathering (losing fines) | Fog/Coal tar Seal | Slurry/Micro |
| Starting to ravel (larger rock starting to pop out) | Slurry/Micro | Chip/Cape seal |
| Definitely raveling and losing rock | Slurry/Micro | Chip/Cape seal |
| Few longitudinal cracks or joints, Low severity | Do Nothing | Crack Seal/fill |
| Few longitudinal cracks or joints Mod severity | Crack Seal/fill | Crack Seal/fill |
| Few longitudinal cracks or joints- High severity | Crack Seal/fill | Patch/Reconstruct area |
| Many longitudinal cracks- Low sev | Do Nothing | Crack Seal/fill |
| Many longitudinal cracks- Mod sev | Crack Seal/fill | Crack Seal/fill |
| Many longitudinal cracks- High severity | Patch/Reconstruct area | Asphalt Overlay/Mill+overlay |
| A few edge cracks- Low severity | Do Nothing | Crack Seal/fill |
| A few edge cracks- Moderate severity | Crack Seal/fill | Crack Seal/fill |
| A few edge cracks- High severity | Crack Seal/fill | Patch/Reconstruct area |
| Transverse cracks spaced 50 ft apart Low sev | Do Nothing | Crack Seal/fill |
| Transverse cracks spaced 50 ft apart Mod sev | Do Nothing | Crack Seal/fill |
| Transverse cracks spaced 50 ft apart High sev | Asphalt Overlay/Mill+overlay | Crack Seal/fill |
| Transverse cracks spaced 20 ft apart- Low sev | Do Nothing | Crack Seal/fill |
| Transverse cracks spaced 20 ft apart Mod sev | Chip/Cape Seal | Crack Seal/fill |
| Transverse cracks spaced 20 ft apart High sev | Chip/Cape Seal | Asphalt Overlay/Mill+overlay |
| Block cracking Low severity | Do Nothing | Crack Seal/fill |
| Block cracking Moderate severity | Chip/Cape Seal | Crack Seal/fill |
| Block cracking High severity | Chip/Cape Seal | Asphalt Overlay/Mill+overlay |
| Reflection cracking Low severity | Do Nothing | Crack Seal/fill |
| Reflection cracking Mod severity | Crack Seal/fill | Crack Seal/fill |
| Reflection cracking High severity | Crack Seal/Fill, or Rehab/Reconstruct | Patch/Reconstruct area |
| Fatigue cracking- 10% Low severity | Rejuvenator | Crack Seal/fill |
| Fatigue cracking- 10% Mod severity | Chip/Cape Seal | Patch/Reconstruct area |
| Fatigue cracking- 10% High severity | Asphalt Overlay/Mill+overlay | Patch/Reconstruct area |
| Fatigue cracking- 30% Fatigue cracking Low sev | Chip/Cape seal | Asphalt Overlay/Mill+overlay |
| Fatigue cracking- 30% Moderate sev | Chip/Cape seal | Patch/Reconstruct area |
| Fatigue cracking- 30% High sev | Asphalt Overlay/Mill+overlay | Patch/Reconstruct area |
| Patching- 10% Low severity | Crack Seal/fill | Do Nothing |
| Patching- 10% Moderate severity | Slurry/Micro, or Fog/Coal Tar Seal | Do Nothing |
| Patching- 10% High severity | Slurry/Micro, or Fog/Coal Tar Seal | Patch/Reconstruct area |
| Patching- 30% Low severity | Crack Seal/Fill | Do Nothing |
| Patching- 30% Moderate severity | Patch/Reconstruct area | Asphalt Overlay/Mill+overlay |
| Patching- 30% High severity | Patch/Reconstruct area | Asphalt Overlay/Mill+overlay |
| Roughness, Long Wavelength Swells | Patch/Reconstruct area | Do Nothing |
| Roughness- Many Long Wavelength Swells | Asphalt Overlay/Mill+overlay | Do Nothing |
| Roughness-No Swell, Many Short Wave Bumps | Asphalt Overlay/Mill+overlay | Do Nothing |

Table 17. **Basic Category- Dry No Freeze Zone**

|  |  |  |
| --- | --- | --- |
|  | **Basic Category- Dry No Freeze Zone BDN** | |
| Ques | Accept | Best |
| Starting to weather (losing fines) | Fog/Coal tar Seal | Rejuvenator |
| Definitely Weathering (losing fines) | Rejuvenator | Fog/Coal tar Seal |
| Starting to ravel (larger rock starting to pop out) | Fog/Coal tar Seal | Slurry/Micro |
| Definitely raveling and losing rock | Slurry/Micro | Chip/Cape seal |
| Few longitudinal cracks or joints, Low severity | Crack Seal/fill | Do Nothing |
| Few longitudinal cracks or joints Mod severity | Do Nothing | Crack Seal/fill |
| Few longitudinal cracks or joints- High severity | Crack Seal/fill | Patch/Reconstruct area |
| Many longitudinal cracks- Low sev | Crack Seal/fill | Do Nothing |
| Many longitudinal cracks- Mod sev | Do Nothing | Crack Seal/fill |
| Many longitudinal cracks- High severity | Crack Seal/fill | Asphalt Overlay/Mill+overlay |
| A few edge cracks- Low severity | Crack Seal/fill | Do Nothing |
| A few edge cracks- Moderate severity | Do Nothing | Crack Seal/fill |
| A few edge cracks- High severity | Crack Seal/fill | Patch/Reconstruct area |
| Transverse cracks spaced 50 ft apart Low sev | Crack Seal/fill | Do Nothing |
| Transverse cracks spaced 50 ft apart Mod sev | Do Nothing | Crack Seal/fill |
| Transverse cracks spaced 50 ft apart High sev | Patch/Reconstruct area | Crack Seal/fill |
| Transverse cracks spaced 20 ft apart- Low sev | Do Nothing | Crack Seal/fill |
| Transverse cracks spaced 20 ft apart Mod sev | Do Nothing | Crack Seal/fill |
| Transverse cracks spaced 20 ft apart High sev | Chip/Cape Seal | Crack Seal/fill |
| Block cracking Low severity | Crack Seal/fill | Do Nothing |
| Block cracking Moderate severity | Do Nothing | Crack Seal/fill |
| Block cracking High severity | Crack Seal/fill | Asphalt Overlay/Mill+overlay |
| Reflection cracking Low severity | Crack Seal/fill | Do Nothing |
| Reflection cracking Mod severity | Do Nothing | Crack Seal/fill |
| Reflection cracking High severity | Crack Seal/fill | Patch/Reconstruct area |
| Fatigue cracking- 10% Low severity | Do Nothing | Crack Seal/fill |
| Fatigue cracking- 10% Mod severity | Crack Seal/fill | Patch/Reconstruct area |
| Fatigue cracking- 10% High severity | Asphalt Overlay/Mill+overlay | Patch/Reconstruct area |
| Fatigue cracking- 30% Fatigue cracking Low sev | Rejuvenator | Asphalt Overlay/Mill+overlay |
| Fatigue cracking- 30% Moderate sev | Asphalt Overlay/Mill+overlay | Patch/Reconstruct area |
| Fatigue cracking- 30% High sev | Patch/Reconstruct area | Rehab/Reconstruct |
| Patching- 10% Low severity | Crack Seal/fill | Do Nothing |
| Patching- 10% Moderate severity | Do Nothing | Crack Seal/fill |
| Patching- 10% High severity | Asphalt Overlay/Mill+overlay | Patch/Reconstruct area |
| Patching- 30% Low severity | Crack Seal/fill | Do Nothing |
| Patching- 30% Moderate severity | Asphalt Overlay/Mill+overlay | Chip/Cape seal, or Slurry/Micro |
| Patching- 30% High severity | Chip/Cape seal, or Slurry/Micro | Asphalt Overlay/Mill+overlay |
| Roughness, Long Wavelength Swells | Patch/Reconstruct area | Do Nothing |
| Roughness- Many Long Wavelength Swells | Asphalt Overlay/Mill+overlay | Do Nothing |
| Roughness-No Swell, Many Short Wave Bumps | Asphalt Overlay/Mill+overlay | Do Nothing |

Table 18. **Basic Category- Wet No Freeze Zone**

|  |  |  |
| --- | --- | --- |
|  | **Basic Category- Wet No Freeze Zone BWN** | |
| Ques | Accept | Best |
| Starting to weather (losing fines) | Do Nothing, or Rejuvenator | Fog/Coal tar Seal |
| Definitely Weathering (losing fines) | Rejuvenator, or Fog/Coal Tar Seal | Slurry/Micro |
| Starting to ravel (larger rock starting to pop out) | Slurry/Micro | Rejuvenator |
| Definitely raveling and losing rock | Chip/Cape Seal | Asphalt Overlay/Mill+overlay |
| Few longitudinal cracks or joints, Low severity | Do Nothing, or Rejuvenator | Crack Seal/fill |
| Few longitudinal cracks or joints Mod severity | Do Nothing, or Rejuvenator | Crack Seal/fill |
| Few longitudinal cracks or joints- High severity | Asphalt Overlay/Mill+overlay | Patch/Reconstruct area |
| Many longitudinal cracks- Low sev | Do Nothing | Crack Seal/fill |
| Many longitudinal cracks- Mod sev | Asphalt Overlay/Mill+overlay | Crack Seal/fill |
| Many longitudinal cracks- High severity | Crack Seal/fill | Asphalt Overlay/Mill+overlay |
| A few edge cracks- Low severity | Crack Seal/fill | Do Nothing |
| A few edge cracks- Moderate severity | Rejuvenator | Crack Seal/fill |
| A few edge cracks- High severity | Crack Seal/Fill, or Rejuvenator | Patch/Reconstruct area |
| Transverse cracks spaced 50 ft apart Low sev | Do Nothing | Crack Seal/fill |
| Transverse cracks spaced 50 ft apart Mod sev | Do Nothing | Crack Seal/fill |
| Transverse cracks spaced 50 ft apart High sev | Asphalt Overlay/Mill+overlay | Crack Seal/fill |
| Transverse cracks spaced 20 ft apart- Low sev | Do Nothing | Crack Seal/fill |
| Transverse cracks spaced 20 ft apart Mod sev | Chip/Cape Seal | Crack Seal/fill |
| Transverse cracks spaced 20 ft apart High sev | Asphalt Overlay/Mill+overlay | Crack Seal/fill |
| Block cracking Low severity | Do Nothing | Crack Seal/fill |
| Block cracking Moderate severity | Asphalt Overlay/Mill+overlay | Crack Seal/fill |
| Block cracking High severity | Chip/Cape Seal | Asphalt Overlay/Mill+overlay |
| Reflection cracking Low severity | Do Nothing | Crack Seal/fill |
| Reflection cracking Mod severity | Crack Seal/fill | Crack Seal/fill |
| Reflection cracking High severity | Rehab/Reconstruct | Patch/Reconstruct area |
| Fatigue cracking- 10% Low severity | Patch/Reconstruct area | Crack Seal/fill |
| Fatigue cracking- 10% Mod severity | Chip/Cape Seal | Crack Seal/fill |
| Fatigue cracking- 10% High severity | Chip/Cape Seal | Patch/Reconstruct area |
| Fatigue cracking- 30% Low sev | Rejuvenator | Asphalt Overlay/Mill+overlay |
| Fatigue cracking- 30% Moderate sev | Patch/Reconstruct Area | Asphalt Overlay/Mill+overlay |
| Fatigue cracking- 30% High sev | Asphalt Overlay/Mill+overlay | Rehab/Reconstruct |
| Patching- 10% Low severity | Do Nothing | Do Nothing |
| Patching- 10% Moderate severity | Fog/Coal tar Seal | Do Nothing |
| Patching- 10% High severity | Slurry/Micro, or Chip/Cape seal | Patch/Reconstruct area |
| Patching- 30% Low severity | Crack Seal/Fill | Do Nothing |
| Patching- 30% Moderate severity | Chip/Cape Seal | Asphalt Overlay/Mill+overlay |
| Patching- 30% High severity | Rehab/Reconstruct | Asphalt Overlay/Mill+overlay |
| Roughness, Long Wavelength Swells | Patch/Reconstruct area | Do Nothing |
| Roughness- Many Long Wavelength Swells | Patch/Reconstruct area | Asphalt Overlay/Mill+overlay |
| Roughness-No Swell, Many Short Wave Bump | Patch/Reconstruct area | Asphalt Overlay/Mill+overlay |

**Table 19. Example from Excel Sheet – All Responses-AC**

|  |  |  |
| --- | --- | --- |
| **Treatment** | **Starting to weather (losing fines)** | |
| **Acceptable** | **Best** |
| **Do Nothing** | nwf,RDF,bwn | LWF,BWF |
| **Crack seal/ fill** |  |  |
| **Rejuvenator** | LWF,LDF,bwf,bwn | nwf,ndf,NDN,NWN,RWF,rdf,RDN,RWN,LWN,BDF,BDN |
| **Fog/Coal tar seal** | ndn,NWN,rwf,RWN,LWN,bwf,bdf,BDN | nwf,ndf,rdf,ldf,LDN,BWN |
| **Slurry/Micro** | NDF,ndn,rwf,RDN,ldn | rdf,ldf |
| **Chip/Cape seal** | ldn |  |
| **Asphalt overlay/Mill+ overlay** |  |  |
| **Patch/Reconstruct area** |  |  |
| **Rehab/Reconstruct)** |  |  |
|  |  |  |
| No Response Received |  |  |
| **NDF** | NDF | NDF |
| **NWN** | NWN | NWN |
| NDN |  |  |
| **RDN** |  |  |
| **RWN** |  |  |
| **LDN** |  |  |
| **LWN** |  |  |
| BDF |  |  |
| BDN | BDN | BDN |
| BWN |  |  |

**Table 20. Order of Precedence – AC Pavements**

|  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| Treatment | Do Nothing | Crack seal/fill | Rejuvenator | Fog/Coal tar seal | Slurry/ micro | Chip/ cape seal | AC overlay/ Mill+ overlay | Patch/ Recon area | Rehab/ Recon) |
| Do nothing | X | Crack seal/fill | Rejuvenator | Fog/Coal tar seal | Slurry/ micro | Chip/ cape seal | AC overlay/ Mill+ overlay | Patch/ Recon area | Rehab/ Recon) |
| Crack seal/fill | Crack seal/ fill | X |  |  |  |  |  |  | Rehab/ Recon) |
| Rejuvenator | Rejuvenator | Both | X | Fog/Coal tar seal | Slurry/ micro | Chip/ cape seal | AC overlay/ Mill+ overlay | Both | Rehab/ Recon) |
| Fog/Coal tar seal | Fog/Coal tar seal | Both | Fog/Coal tar seal | X | Slurry/ micro | Chip/ cape seal | AC overlay/ Mill+ overlay | Both | Rehab/ Recon) |
| Slurry/micro | Slurry/micro | Both | Slurry/ micro | Slurry/micro | X | Chip/ cape seal | AC overlay/ Mill+ overlay | Both | Rehab/ Recon) |
| Chip/cape seal | Chip/ cape seal | Both | Chip/ cape seal | Chip/cape seal | Chip/ cape seal | X | AC overlay/ Mill+ overlay | Both | Rehab/ Recon) |
| AC overlay /Mill+ overlay | AC overlay/ Mill+ overlay | Both | AC overlay/ Mill+ overlay | AC overlay/ Mill+ overlay | AC overlay/ Mill+ overlay | AC overlay/ Mill+ overlay | X | Both | Rehab/ Recon) |
| Patch/Recon | Patch/Recon | Both | Both | Both | Both | Both | Both | X | Rehab/ Recon) |
| Rehab/ Recon) | Rehab/Recon) | Rehab/Recon) | Rehab/Recon) | Rehab/Recon) | Rehab/Recon) | Rehab/Recon) | Rehab/Recon) | Rehab/Recon) | X |

**Table 21 Concrete Pavement Decision Points**

Joint seal is about 5 years old still in Good condition

Joint Seal Damage Low severity (8 years old, getting stiff, losing some adhesion, but mostly intact)

Joint Seal Damage Moderate sev (Less than 10% of length has stripping, extrusion, weed growth, hardening, loss of bond, or missing)

Joint Seal Damage High severity (Significant length has stripping, extrusion, weed growth, hardening, loss of bond, or

missing

Joint and Corner Spalls Low severity (little or no FOD)

Joint and Corner Spalls Moderate severity (some FOD, broken into 2-3 pieces, loose pieces)

Joint and Corner Spalls High severity (significant FOD, severely frayed or broken)

Mid-panel cracking on 20% of the slabs Low severity (< 1/8" wide or sealed, minor or no spalling)

Mid-panel cracking on 20% of the slabs Moderate severity (> 1/8" to 1" wide, or moderately spalled (some FOD), or filled

unsatisfactorily)

Mid-panel cracking on 20% of the slabs High severity (Severely spalled with definite FOD, or unsealed >1")

Mid-panel cracking on 40% of the slabs Low severity (< 1/8" wide or sealed, minor or no spalling)

Mid-panel cracking on 40% of the slabs Moderate severity (> 1/8" to 1" wide, or moderately spalled (some FOD), or filled

unsatisfactorily.)

Mid-panel cracking on 40% of the slabs High severity (Severely spalled with definite FOD, or unsealed >1")

Corner Break on 10% of the slabs Low severity (< 1/8" wide, or sealed, and little or minor spalling (no FOD))

Corner Break on 10% of the slabs Moderate severity (> 1/8" and < 1" wide, moderately spalled (some FOD), sealant in

unsatisfactory condition, or the broken corner is lightly cracked)

Corner Break on 10% of the slabs High severity (> 1" wide, filled or nonfilled crack is severely spalled, definite FOD

potential, or area between the corner break is severely cracked)

Corner Break on 30% of the slabs Low severity (< 1/8" wide, or sealed, and little or minor spalling (no FOD))

Corner Break on 30% of the slabs Moderate severity (> 1/8" and < 1" wide, moderately spalled (some FOD), sealant in

unsatisfactory condition, or the broken corner is lightly cracked)

Corner Break on 30% of the slabs High severity (> 1" wide, filled or nonfilled crack is severely spalled, definite FOD

potential, or area between the corner break is severely cracked)

10% of slabs are Shattered Low severity (broken into 4-5 pieces predominantly defined by low severity cracks)

10% of slabs are Shattered Moderate severity (broken into 4-5 pieces with 15% of the cracks of medium severity (no

high severity cracks); or slab is broken into 6+ or more pieces with over 85% cracks lowseverity)

10% of slabs are Shattered High severity (broken into 4-5 pieces with some or all cracks high severity; or slab is broken

into 6+ pieces with over 15% of medium or high severity.

30% of slabs are Shattered Low severity (broken into 4-5 pieces predominantly defined by low severity cracks)

30% of slabs are Shattered Moderate severity (broken into 4-5 pieces with 15% of the cracks of medium severity (no

high severity cracks), or slab is broken into 6+ or more pieces with over 85% cracks low severity)

30% of slabs are Shattered High severity (broken into 45 pieces with some or all cracks high severity; or slab is broken

into 6+ pieces with over 15% of medium or high severity.

30% of area has Patches Low severity (good condition)

30% of area has Patches Moderate severity (somewhat deteriorated)

30% of area has Patches High severity (deteriorated and rough)

50% of area has Patches Low severity (good condition)

50% of area has Patches Moderate severity (somewhat deteriorated)

50% of area has Patches High severity (deteriorated and rough)

10% of slabs are Faulted Low severity (< 1/4" difference)

10% of slabs are Faulted Moderate severity (> 1/4" and < 1/2" difference)

10% of slabs are Faulted High severity (> 1/2" difference)

30% of slabs are Faulted Low severity (< 1/4" difference)

30% of slabs are Faulted Moderate severity (> 1/4" and < 1/2" difference)

30% of slabs are Faulted High severity (> 1/2" difference)

**Table 22. Concrete Pavement Treatment Types.**

|  |
| --- |
| Do Nothing |
| Crack/Joint Seal |
| Partial Depth Repair |
| Full-depth Repair (localized) |
| Cross-stitching/dowelbar Retrofit |
| Slab stabilization/jacking/underseal |
| Concrete/asphalt overlay |
| Grinding/grooving |
| TOO SEVERE (Rehab/Reconstruct) |

Table 23. **National Category- Wet Freeze Zone**

|  |  |  |
| --- | --- | --- |
|  | **National Category- Wet Freeze Zone NWF** | |
| Ques | Accept | Best |
| Joint seal 5 years, still GOOD | Do Nothing | Do Nothing |
| Joint Seal Low sev | Crack/Joint Seal | Do Nothing |
| Joint Seal Mod sev | Crack/Joint Seal | Crack/Joint Seal |
| Joint Seal High sev | Crack/Joint Seal | Crack/Joint Seal |
| Joint and Corner Spall Lowsev | Crack/Joint Seal, or Do Nothing | Partial depth repair |
| Joint and Corner Spall Mod sev | Crack/Joint Seal, orPartial Depth repair | Partial depth repair |
| Joint and Corner Spall High sev | Partial depth repair | Partial depth repair |
| Mid-Panel Crack, 20% slabs, Low sev | Crack/Joint Seal | Do Nothing |
| Mid-Panel Crack, 20% slabs, Mod sev | Partial depth repair, or Full-depth repair | Crack/Joint Seal |
| Mid-Panel Crack, 20% slabs, Hi sev | Crack/Joint Seal, or Partial depth repair | Full-depth repair |
| Mid-Panel Crack, 40% slabs, Low sev | Do Nothing | Concrete/asphalt overlay |
| Mid-Panel Crack, 40% slabs,Mod sev | Rehab/Reconstruct | Concrete/asphalt overlay |
| Mid-Panel Crack, 40% slabs, Hi sev | Concrete/asphalt overlay | Rehab/Reconstruct |
| Corner Brk, 10% slab, Low sev | Crack/Joint Seal, or Full-depth repair | Do Nothing |
| Corner Brk, 10% slab, Mod sev | Full-depth repair | Crack/Joint Seal |
| Corner Brk, 10% slab, Hi sev | Full-depth repair | Full-depth repair |
| Corner Brk, 30% slab, Low sev | Crack/Joint Seal | Do Nothing, or Full-depth repair |
| Corner Brk, 30% slab, Mod sev | Full-depth repair | Full-depth repair, or Concrete/asphalt overlay |
| Corner Brk, 30% slab, Hi sev | Full-depth repair | Rehab/Reconstruct |
| 10% Shattered, Low sev | Do Nothing | Full-depth repair |
| 10% Shattered, Mod sev | Crack/Joint Seal | Full-depth repair |
| 10% Shattered, Hi sev | Concrete/asphalt overlay | Full-depth repair |
| 30% Shattered, Low sev | Rehab/Reconstruct | Concrete/asphalt overlay |
| 30% Shattered, Mod sev | Full-depth repair | Rehab/Reconstruct |
| 30% Shattered, Hi sev | Full-depth repair | Rehab/Reconstruct |
| 30% slabs, Patches Low sev | Do Nothing | Do Nothing |
| 30% slabs, Patches Med sev | Partial depth repair | Full-depth repair |
| 30% slabs, Patches Hi sev | Partial depth repair | Full-depth repair |
| 50% slabs, Patches Low sev | Concrete/asphalt overlay | Do Nothing |
| 50% slabs, Patches Med sev | Full-depth repair | Concrete/asphalt overlay |
| 50% slabs, Patches Hi sev | Concrete/asphalt overlay | Rehab/Reconstruct |
| 10% slabs Fault Low sev | Grinding/grooving | Do Nothing |
| 10% slabs Fault Med sev | Slab stabilization/jacking/underseal | Grinding/grooving |
| 10% slabs Fault Hi sev | Slab stabilization/jacking/underseal | Grinding/grooving |
| 30% slabs Fault Low sev | Do Nothing | Grinding/grooving |
| 30% slabs Fault Med sev | Slab stabilization/jacking/underseal | Grinding/grooving |
| 30% slabs Fault Hi sev | Slab stabilization/jacking/underseal | Rehab/Reconstruct |

Table 24. **National Category- Dry Freeze Zone**

|  |  |  |
| --- | --- | --- |
|  | **National Category- Dry Freeze Zone NDF** | |
| Ques | Accept | Best |
| Joint seal 5 years, still GOOD | Do Nothing | Do Nothing |
| Joint Seal Low sev | Do Nothing | Crack/Joint Seal |
| Joint Seal Mod sev | Crack/Joint Seal | Crack/Joint Seal |
| Joint Seal High sev | Crack/Joint Seal | Crack/Joint Seal |
| Joint and Corner Spall Lowsev | Crack/Joint Seal | Do Nothing |
| Joint and Corner Spall Mod sev | Crack/Joint Seal | Partial depth repair |
| Joint and Corner Spall High sev | Partial depth repair | Partial depth repair |
| Mid-Panel Crack, 20% slabs, Low sev | Crack/Joint Seal | Do Nothing |
| Mid-Panel Crack, 20% slabs, Mod sev | Partial depth repair | Crack/Joint Seal |
| Mid-Panel Crack, 20% slabs, Hi sev | Crack/Joint Seal | Partial depth repair |
| Mid-Panel Crack, 40% slabs, Low sev | Crack/Joint Seal | Do Nothing |
| Mid-Panel Crack, 40% slabs,Mod sev | Partial depth repair | Crack/Joint Seal |
| Mid-Panel Crack, 40% slabs, Hi sev | Concrete/asphalt overlay | Rehab/Reconstruct |
| Corner Brk, 10% slab, Low sev | Crack/Joint Seal | Do Nothing |
| Corner Brk, 10% slab, Mod sev | Full-depth repair | Crack/Joint Seal |
| Corner Brk, 10% slab, Hi sev | Full-depth repair | Full-depth repair |
| Corner Brk, 30% slab, Low sev | Crack/Joint Seal | Do Nothing |
| Corner Brk, 30% slab, Mod sev | Crack/Joint Seal | Full-depth repair |
| Corner Brk, 30% slab, Hi sev | Full-depth repair | Rehab/Reconstruct |
| 10% Shattered, Low sev | Crack/Joint Seal | Full-depth repair |
| 10% Shattered, Mod sev | Crack/Joint Seal | Full-depth repair |
| 10% Shattered, Hi sev | Concrete/asphalt overlay | Full-depth repair |
| 30% Shattered, Low sev | Full-depth repair | Crack/Joint Seal |
| 30% Shattered, Mod sev | Rehab/Reconstruct | Full-depth repair |
| 30% Shattered, Hi sev | Full-depth repair | Rehab/Reconstruct |
| 30% slabs, Patches Low sev | Do Nothing | Do Nothing |
| 30% slabs, Patches Med sev | Full-depth repair | Partial depth repair |
| 30% slabs, Patches Hi sev | Partial depth repair | Rehab/Reconstruct |
| 50% slabs, Patches Low sev | Do Nothing | Do Nothing |
| 50% slabs, Patches Med sev | Concrete/asphalt overlay | Full-depth repair |
| 50% slabs, Patches Hi sev | Concrete/asphalt overlay | Rehab/Reconstruct |
| 10% slabs Fault Low sev | Crack/Joint Seal | Do Nothing |
| 10% slabs Fault Med sev | Slab stabilization/jacking/underseal | Grinding/grooving |
| 10% slabs Fault Hi sev | Grinding/grooving | Slab stabilization/jacking/underseal |
| 30% slabs Fault Low sev | Crack/Joint Seal | Do Nothing |
| 30% slabs Fault Med sev | Slab stabilization/jacking/underseal | Grinding/grooving |
| 30% slabs Fault Hi sev | Grinding/grooving | Slab stabilization/jacking/underseal |

Table 25. **National Category- Dry No Freeze Zone**

|  |  |  |
| --- | --- | --- |
|  | **National Category- Dry No Freeze Zone NDN** | |
| Ques | Accept | Best |
| Joint seal 5 years, still GOOD | Do Nothing | Do Nothing |
| Joint Seal Low sev | Do Nothing | Crack/Joint Seal |
| Joint Seal Mod sev | Crack/Joint Seal | Crack/Joint Seal |
| Joint Seal High sev | Crack/Joint Seal | Crack/Joint Seal |
| Joint and Corner Spall Lowsev | Crack/Joint Seal | Do Nothing |
| Joint and Corner Spall Mod sev | Crack/Joint Seal | Partial depth repair |
| Joint and Corner Spall High sev | Partial depth repair | Partial depth repair |
| Mid-Panel Crack, 20% slabs, Low sev | Crack/Joint Seal | Do Nothing |
| Mid-Panel Crack, 20% slabs, Mod sev | Partial depth repair | Crack/Joint Seal |
| Mid-Panel Crack, 20% slabs, Hi sev | Crack/Joint Seal | Partial depth repair |
| Mid-Panel Crack, 40% slabs, Low sev | Crack/Joint Seal | Do Nothing |
| Mid-Panel Crack, 40% slabs,Mod sev | Partial depth repair | Crack/Joint Seal |
| Mid-Panel Crack, 40% slabs, Hi sev | Concrete/asphalt overlay | Rehab/Reconstruct |
| Corner Brk, 10% slab, Low sev | Crack/Joint Seal | Do Nothing |
| Corner Brk, 10% slab, Mod sev | Full-depth repair | Crack/Joint Seal |
| Corner Brk, 10% slab, Hi sev | Full-depth repair | Full-depth repair |
| Corner Brk, 30% slab, Low sev | Crack/Joint Seal | Do Nothing |
| Corner Brk, 30% slab, Mod sev | Crack/Joint Seal | Full-depth repair |
| Corner Brk, 30% slab, Hi sev | Full-depth repair | Rehab/Reconstruct |
| 10% Shattered, Low sev | Crack/Joint Seal | Full-depth repair |
| 10% Shattered, Mod sev | Crack/Joint Seal | Full-depth repair |
| 10% Shattered, Hi sev | Concrete/asphalt overlay | Full-depth repair |
| 30% Shattered, Low sev | Full-depth repair | Crack/Joint Seal |
| 30% Shattered, Mod sev | Rehab/Reconstruct | Full-depth repair |
| 30% Shattered, Hi sev | Full-depth repair | Rehab/Reconstruct |
| 30% slabs, Patches Low sev | Do Nothing | Do Nothing |
| 30% slabs, Patches Med sev | Full-depth repair | Partial depth repair |
| 30% slabs, Patches Hi sev | Partial depth repair | Rehab/Reconstruct |
| 50% slabs, Patches Low sev | Do Nothing | Do Nothing |
| 50% slabs, Patches Med sev | Concrete/asphalt overlay | Full-depth repair |
| 50% slabs, Patches Hi sev | Concrete/asphalt overlay | Rehab/Reconstruct |
| 10% slabs Fault Low sev | Crack/Joint Seal | Do Nothing |
| 10% slabs Fault Med sev | Slab stabilization/jacking/underseal | Grinding/grooving |
| 10% slabs Fault Hi sev | Grinding/grooving | Slab stabilization/jacking/underseal |
| 30% slabs Fault Low sev | Crack/Joint Seal | Do Nothing |
| 30% slabs Fault Med sev | Slab stabilization/jacking/underseal | Grinding/grooving |
| 30% slabs Fault Hi sev | Grinding/grooving | Slab stabilization/jacking/underseal |

Table 26. **National Category- Wet No Freeze Zone**

|  |  |  |
| --- | --- | --- |
|  | **National Category- Wet No Freeze Zone** | |
| Ques | Accept | Best |
| Joint seal 5 years, still GOOD | Do Nothing | Do Nothing |
| Joint Seal Low sev | Do Nothing | Crack/Joint Seal |
| Joint Seal Mod sev | Crack/Joint Seal | Crack/Joint Seal |
| Joint Seal High sev | Crack/Joint Seal | Crack/Joint Seal |
| Joint and Corner Spall Lowsev | Crack/Joint Seal | Partial depth repair |
| Joint and Corner Spall Mod sev | Crack/Joint Seal | Partial depth repair |
| Joint and Corner Spall High sev | Partial depth repair | Partial depth repair |
| Mid-Panel Crack, 20% slabs, Low sev | Crack/Joint Seal | Do Nothing |
| Mid-Panel Crack, 20% slabs, Mod sev | Partial depth repair | Crack/Joint Seal |
| Mid-Panel Crack, 20% slabs, Hi sev | Crack/Joint Seal | Partial depth repair |
| Mid-Panel Crack, 40% slabs, Low sev | Crack/Joint Seal | Concrete/asphalt overlay |
| Mid-Panel Crack, 40% slabs,Modsev | Partial depth repair | Concrete/asphalt overlay |
| Mid-Panel Crack, 40% slabs, Hi sev | Concrete/asphalt overlay | Rehab/Reconstruct |
| Corner Brk, 10% slab, Low sev | Crack/Joint Seal | Do Nothing |
| Corner Brk, 10% slab, Mod sev | Full-depth repair | Crack/Joint Seal |
| Corner Brk, 10% slab, Hi sev | Full-depth repair | Full-depth repair |
| Corner Brk, 30% slab, Low sev | Crack/Joint Seal | Do Nothing |
| Corner Brk, 30% slab, Mod sev | Crack/Joint Seal | Full-depth repair |
| Corner Brk, 30% slab, Hi sev | Full-depth repair | Rehab/Reconstruct |
| 10% Shattered, Low sev | Crack/Joint Seal | Full-depth repair |
| 10% Shattered, Mod sev | Crack/Joint Seal | Full-depth repair |
| 10% Shattered, Hi sev | Concrete/asphalt overlay | Full-depth repair |
| 30% Shattered, Low sev | Full-depth repair | Crack/Joint Seal |
| 30% Shattered, Mod sev | Rehab/Reconstruct | Full-depth repair |
| 30% Shattered, Hi sev | Full-depth repair | Rehab/Reconstruct |
| 30% slabs, Patches Low sev | Do Nothing | Do Nothing |
| 30% slabs, Patches Med sev | Full-depth repair | Partial depth repair |
| 30% slabs, Patches Hi sev | Partial depth repair | Rehab/Reconstruct |
| 50% slabs, Patches Low sev | Do Nothing | Do Nothing |
| 50% slabs, Patches Med sev | Concrete/asphalt overlay | Full-depth repair |
| 50% slabs, Patches Hi sev | Concrete/asphalt overlay | Rehab/Reconstruct |
| 10% slabs Fault Low sev | Crack/Joint Seal | Do Nothing |
| 10% slabs Fault Med sev | Slab stabilization/jacking/underseal | Grinding/grooving |
| 10% slabs Fault Hi sev | Grinding/grooving | Slab stabilization/jacking/underseal |
| 30% slabs Fault Low sev | Crack/Joint Seal | Do Nothing |
| 30% slabs Fault Med sev | Slab stabilization/jacking/underseal | Grinding/grooving |
| 30% slabs Fault Hi sev | Grinding/grooving | Slab stabilization/jacking/underseal |

Table 27. **Regional Category- Wet Freeze Zone**

|  |  |  |
| --- | --- | --- |
|  | **Regional Category- Wet Freeze Zone RWF** | |
| Ques | Accept | Best |
| Joint seal 5 years, still GOOD | Do Nothing | Do Nothing |
| Joint Seal Low sev | Do Nothing | Crack/Joint seal |
| Joint Seal Mod sev | Do Nothing | Crack/Joint seal |
| Joint Seal High sev | Crack/Joint seal | Crack/Joint seal |
| Joint and Corner Spall Lowsev | Do Nothing, or Partial Depth repair | Crack/Joint seal |
| Joint and Corner Spall Mod sev | Crack/Joint seal | Partial depth repair |
| Joint and Corner Spall High sev | Partial depth repair | Partial depth repair |
| Mid-Panel Crack, 20% slabs, Low sev | Do Nothing | Crack/Joint seal |
| Mid-Panel Crack, 20% slabs, Mod sev | Partial depth repair | Crack/Joint seal |
| Mid-Panel Crack, 20% slabs, Hi sev | Full-depth repair (localized) | Partial depth repair |
| Mid-Panel Crack, 40% slabs, Low sev | Do Nothing | Crack/Joint seal |
| Mid-Panel Crack, 40% slabs,Mod sev | Full-depth repair (localized) | Crack/Joint seal |
| Mid-Panel Crack, 40% slabs, Hi sev | Partial depth repair | Full-depth repair (localized) |
| Corner Brk, 10% slab, Low sev | Do Nothing | Crack/Joint seal |
| Corner Brk, 10% slab, Mod sev | Full-depth repair (localized) | Crack/Joint seal |
| Corner Brk, 10% slab, Hi sev | Full-depth repair (localized) | Full-depth repair (localized) |
| Corner Brk, 30% slab, Low sev | Do Nothing | Crack/Joint seal |
| Corner Brk, 30% slab, Mod sev | Full-depth repair (localized) | Crack/Joint seal |
| Corner Brk, 30% slab, Hi sev | Full-depth repair (localized) | Full-depth repair (localized) |
| 10% Shattered, Low sev | Do Nothing | Crack/Joint seal |
| 10% Shattered, Mod sev | Crack/Joint seal | Full-depth repair (localized) |
| 10% Shattered, Hi sev | Concrete/Asphalt overlay | Full-depth repair (localized) |
| 30% Shattered, Low sev | Full-depth repair (localized) | Crack/Joint seal |
| 30% Shattered, Mod sev | Rehab/Reconstruct | Full-depth repair (localized) |
| 30% Shattered, Hi sev | Rehab/Reconstruct | Full-depth repair (localized) |
| 30% slabs, Patches Low sev | Do Nothing | Do Nothing |
| 30% slabs, Patches Med sev | Do Nothing | Partial depth repair |
| 30% slabs, Patches Hi sev | Partial depth repair | Full-depth repair (localized) |
| 50% slabs, Patches Low sev | Do Nothing | Do Nothing |
| 50% slabs, Patches Med sev | Full-depth repair (localized) | Partial depth repair |
| 50% slabs, Patches Hi sev | Full-depth repair (localized) | Rehab/Reconstruct |
| 10% slabs Fault Low sev | Do Nothing | Crack/Joint seal |
| 10% slabs Fault Med sev | Crack/Joint seal | Grinding/grooving |
| 10% slabs Fault Hi sev | Slab stabilization/jacking/underseal | Grinding/grooving |
| 30% slabs Fault Low sev | Slab stabilization/jacking/underseal | Grinding/grooving |
| 30% slabs Fault Med sev | Crossstitching/dowelbar retrofit | Grinding/grooving |
| 30% slabs Fault Hi sev | Slab stabilization/jacking/underseal | Rehab/Reconstruct |

Table 28. **Regional Category- Dry Freeze Zone**

|  |  |  |
| --- | --- | --- |
|  | **Regional Category- Dry Freeze Zone RDF** | |
| Ques | Accept | Best |
| Joint seal 5 years, still GOOD | Do Nothing | Crack/Joint seal |
| Joint Seal Low sev | Do Nothing | Crack/Joint seal |
| Joint Seal Mod sev | Do Nothing | Crack/Joint seal |
| Joint Seal High sev | Crack/Joint seal | Crack/Joint seal |
| Joint and Corner Spall Lowsev | Do Nothing | Crack/Joint seal |
| Joint and Corner Spall Mod sev | Crack/Joint seal | Partial depth repair |
| Joint and Corner Spall High sev | Crack/Joint seal | Partial depth repair |
| Mid-Panel Crack, 20% slabs, Low sev | Do Nothing | Crack/Joint seal |
| Mid-Panel Crack, 20% slabs, Mod sev | Partial depth repair | Crack/Joint seal |
| Mid-Panel Crack, 20% slabs, Hi sev | Partial depth repair | Full-depth repair (localized) |
| Mid-Panel Crack, 40% slabs, Low sev | Do Nothing | Crack/Joint seal |
| Mid-Panel Crack, 40% slabs,Mod sev | Partial depth repair, or Full-depth repair (localized) | Rehab/Reconstruct |
| Mid-Panel Crack, 40% slabs, Hi sev | Full-depth repair (localized) | Rehab/Reconstruct |
| Corner Brk, 10% slab, Low sev | Do Nothing | Crack/Joint seal |
| Corner Brk, 10% slab, Mod sev | Full-depth repair (localized) | Crack/Joint seal |
| Corner Brk, 10% slab, Hi sev | Crack/Joint seal | Full-depth repair (localized) |
| Corner Brk, 30% slab, Low sev | Do Nothing | Crack/Joint seal |
| Corner Brk, 30% slab, Mod sev | Full-depth repair (localized) | Crack/Joint seal |
| Corner Brk, 30% slab, Hi sev | Crack/Joint seal | Full-depth repair (localized) |
| 10% Shattered, Low sev | Do Nothing | Crack/Joint seal |
| 10% Shattered, Mod sev | Crack/Joint seal | Full-depth repair (localized) |
| 10% Shattered, Hi sev | Full-depth repair (localized) | Full-depth repair (localized) |
| 30% Shattered, Low sev | Do Nothing | Full-depth repair (localized) |
| 30% Shattered, Mod sev | Full-depth repair (localized) | Rehab/Reconstruct |
| 30% Shattered, Hi sev | Full-depth repair (localized) | Rehab/Reconstruct |
| 30% slabs, Patches Low sev | Do Nothing | Do Nothing |
| 30% slabs, Patches Med sev | Full-depth repair (localized) | Do Nothing |
| 30% slabs, Patches Hi sev | Partial depth repair | Full-depth repair (localized) |
| 50% slabs, Patches Low sev | Do Nothing | Do Nothing |
| 50% slabs, Patches Med sev | Full-depth repair (localized) | Partial depth repair |
| 50% slabs, Patches Hi sev | Concrete/Asphalt overlay | Full-depth repair (localized) |
| 10% slabs Fault Low sev | Crack/Joint seal | Do Nothing |
| 10% slabs Fault Med sev | Crack/Joint seal | Grinding/grooving |
| 10% slabs Fault Hi sev | Crossstitching/dowelbar retrofit | Slab stabilization/ jacking/underseal |
| 30% slabs Fault Low sev | Grinding/grooving | Do Nothing |
| 30% slabs Fault Med sev | Grinding/grooving | Do Nothing |
| 30% slabs Fault Hi sev | Crossstitching/dowelbar retrofit | Slab stabilization/ jacking/underseal |

Table 29. **Regional Category- Dry No Freeze Zone**

|  |  |  |
| --- | --- | --- |
|  | **Regional Category- Dry No Freeze Zone ,RDN** | |
| Ques | Accept | Best |
| Joint seal 5 years, still GOOD | Do Nothing | Do Nothing |
| Joint Seal Low sev | Do Nothing | Crack/Joint seal |
| Joint Seal Mod sev | Do Nothing | Crack/Joint seal |
| Joint Seal High sev | Crack/Joint seal | Crack/Joint seal |
| Joint and Corner Spall Lowsev | Crack/Joint seal | Do Nothing |
| Joint and Corner Spall Mod sev | Partial depth repair | Crack/Joint seal |
| Joint and Corner Spall High sev | Crack/Joint seal | Partial depth repair |
| Mid-Panel Crack, 20% slabs, Low sev | Crack/Joint seal | Do Nothing |
| Mid-Panel Crack, 20% slabs, Mod sev | Partial depth repair | Crack/Joint seal |
| Mid-Panel Crack, 20% slabs, Hi sev | Full-depth repair (localized) | Full-depth repair (localized) |
| Mid-Panel Crack, 40% slabs, Low sev | Crack/Joint seal | Do Nothing |
| Mid-Panel Crack, 40% slabs,Mod sev | Partial depth repair, or Full-depth repair (localized) | Crack/Joint seal |
| Mid-Panel Crack, 40% slabs, Hi sev | Full-depth repair (localized) | Rehab/Reconstruct |
| Corner Brk, 10% slab, Low sev | Crack/Joint seal | Do Nothing |
| Corner Brk, 10% slab, Mod sev | Full-depth repair (localized) | Crack/Joint seal |
| Corner Brk, 10% slab, Hi sev | Full-depth repair (localized) | Full-depth repair (localized) |
| Corner Brk, 30% slab, Low sev | Crack/Joint seal | Do Nothing |
| Corner Brk, 30% slab, Mod sev | Full-depth repair (localized) | Crack/Joint seal |
| Corner Brk, 30% slab, Hi sev | Crack/Joint seal | Full-depth repair (localized) |
| 10% Shattered, Low sev | Do Nothing | Crack/Joint seal |
| 10% Shattered, Mod sev | Full-depth repair (localized) | Full-depth repair (localized) |
| 10% Shattered, Hi sev | Full-depth repair (localized) | Full-depth repair (localized) |
| 30% Shattered, Low sev | Do Nothing | Crack/Joint seal |
| 30% Shattered, Mod sev | Full-depth repair (localized) | Rehab/Reconstruct |
| 30% Shattered, Hi sev | Full-depth repair (localized) | Rehab/Reconstruct |
| 30% slabs, Patches Low sev | Do Nothing | Do Nothing |
| 30% slabs, Patches Med sev | Partial depth repair | Do Nothing |
| 30% slabs, Patches Hi sev | Partial depth repair | Full-depth repair (localized) |
| 50% slabs, Patches Low sev | Do Nothing | Do Nothing |
| 50% slabs, Patches Med sev | Full-depth repair (localized) | Partial depth repair |
| 50% slabs, Patches Hi sev | Concrete/Asphalt overlay | Rehab/Reconstruct |
| 10% slabs Fault Low sev | Crack/Joint seal | Do Nothing |
| 10% slabs Fault Med sev | Slab stabilization/jacking/underseal | Grinding/grooving |
| 10% slabs Fault Hi sev | Grinding/grooving | Slab stabilization/ jacking/underseal |
| 30% slabs Fault Low sev | Crack/Joint seal | Do Nothing |
| 30% slabs Fault Med sev | Slab stabilization/jacking/underseal | Grinding/grooving |
| 30% slabs Fault Hi sev | Rehab/Reconstruct | Slab stabilization/ jacking/underseal |

Table 30. **Regional Category- Wet No Freeze Zone**

|  |  |  |
| --- | --- | --- |
|  | **Regional Category- Wet No Freeze Zone ,RWN** | |
| Ques | Accept | Best |
| Joint seal 5 years, still GOOD | Crack/Joint seal | Do Nothing |
| Joint Seal Low sev | Crack/Joint seal | Do Nothing |
| Joint Seal Mod sev | Crack/Joint seal | Crack/Joint seal |
| Joint Seal High sev | Crack/Joint seal | Crack/Joint seal |
| Joint and Corner Spall Lowsev | Crack/Joint seal | Do Nothing |
| Joint and Corner Spall Mod sev | Crack/Joint seal | Partial Depth repair |
| Joint and Corner Spall High sev | Partial Depth repair | Partial Depth repair |
| Mid-Panel Crack, 20% slabs, Low sev | Do Nothing | Crack/Joint seal |
| Mid-Panel Crack, 20% slabs, Mod sev | Do Nothing | Full-depth repair (localized) |
| Mid-Panel Crack, 20% slabs, Hi sev | Partial Depth repair | Full-depth repair (localized) |
| Mid-Panel Crack, 40% slabs, Low sev | Partial Depth repair | Full-depth repair (localized) |
| Mid-Panel Crack, 40% slabs,Mod sev | Partial Depth repair | Full-depth repair (localized) |
| Mid-Panel Crack, 40% slabs, Hi sev | Full-depth repair (localized) | Concrete/Asphalt overlay |
| Corner Brk, 10% slab, Low sev | Crack/Joint seal | Do Nothing |
| Corner Brk, 10% slab, Mod sev | Crack/Joint seal | Full-depth repair (localized) |
| Corner Brk, 10% slab, Hi sev | Full-depth repair (localized) | Full-depth repair (localized) |
| Corner Brk, 30% slab, Low sev | Do Nothing | Crack/Joint seal |
| Corner Brk, 30% slab, Mod sev | Crack/Joint seal | Full-depth repair (localized) |
| Corner Brk, 30% slab, Hi sev | Full-depth repair (localized) | full-depth repair (localized) or Rehab/Reconstruct |
| 10% Shattered, Low sev | Crack/Joint seal | Full-depth repair (localized) |
| 10% Shattered, Mod sev | Full-depth repair (localized) | Full-depth repair (localized) |
| 10% Shattered, Hi sev | Full-depth repair (localized) | Full-depth repair (localized) |
| 30% Shattered, Low sev | Crack/Joint seal | Full-depth repair (localized) |
| 30% Shattered, Mod sev | Full-depth repair (localized) | Rehab/Reconstruct |
| 30% Shattered, Hi sev | Full-depth repair (localized) | Rehab/Reconstruct |
| 30% slabs, Patches Low sev | Do Nothing | Do Nothing |
| 30% slabs, Patches Med sev | Crack/Joint seal | Do Nothing, or Partial Depth repair |
| 30% slabs, Patches Hi sev | Partial Depth repair | Full-depth repair (localized) |
| 50% slabs, Patches Low sev | Do Nothing | Do Nothing |
| 50% slabs, Patches Med sev | Concrete/Asphalt overlay | Full-depth repair (localized) |
| 50% slabs, Patches Hi sev | Concrete/Asphalt overlay | Full-depth repair (localized) |
| 10% slabs Fault Low sev | Crack/Joint seal | Do Nothing |
| 10% slabs Fault Med sev | Crack/Joint seal | Slab stabilization/jacking/underseal |
| 10% slabs Fault Hi sev | Grinding/grooving | Slab stabilization/jacking/underseal |
| 30% slabs Fault Low sev | Slab stabilization/jacking/underseal | Do Nothing |
| 30% slabs Fault Med sev | Grinding/grooving | Slab stabilization/jacking/underseal |
| 30% slabs Fault Hi sev | Slab stabilization/jacking/underseal | Rehab/Reconstruct |

Table 31. **Local Category- Wet Freeze Zone**

|  |  |  |
| --- | --- | --- |
|  | **Local Category- Wet Freeze Zone ,LWF** | |
| Ques | Accept | Best |
| Joint seal 5 years, still GOOD | Do Nothing | Do Nothing |
| Joint Seal Low sev | Do Nothing | Crack/Joint seal |
| Joint Seal Mod sev | Do Nothing | Crack/Joint seal |
| Joint Seal High sev | Crack/Joint seal | Crack/Joint seal |
| Joint and Corner Spall Lowsev | Partial depth repair, or Crack/Joint seal | Do Nothing |
| Joint and Corner Spall Mod sev | Partial depth repair | Crack/Joint seal |
| Joint and Corner Spall High sev | Crack/Joint seal | Partial depth repair |
| Mid-Panel Crack, 20% slabs, Low sev | Do Nothing | Crack/Joint seal |
| Mid-Panel Crack, 20% slabs, Mod sev | Crack/Joint seal | Partial depth repair |
| Mid-Panel Crack, 20% slabs, Hi sev | Full-depth repair (localized) | Partial depth repair |
| Mid-Panel Crack, 40% slabs, Low sev | Do Nothing | Crack/Joint seal |
| Mid-Panel Crack, 40% slabs,Mod sev | Concrete/Asphalt overlay, or Partial Depth repair | Crack/Joint seal |
| Mid-Panel Crack, 40% slabs, Hi sev | Full-depth repair (localized) | Partial depth repair |
| Corner Brk, 10% slab, Low sev | Do Nothing | Crack/Joint seal |
| Corner Brk, 10% slab, Mod sev | Full-depth repair (localized) | Crack/Joint seal |
| Corner Brk, 10% slab, Hi sev | Full-depth repair (localized) | Full-depth repair (localized) |
| Corner Brk, 30% slab, Low sev | Do Nothing, or Full-depth repair (localized) | Crack/Joint seal |
| Corner Brk, 30% slab, Mod sev | Crack/Joint seal | Full-depth repair (localized) |
| Corner Brk, 30% slab, Hi sev | Full-depth repair (localized) | Full-depth repair (localized) |
| 10% Shattered, Low sev | Do Nothing | Crack/Joint seal |
| 10% Shattered, Mod sev | Crack/Joint seal | Full-depth repair (localized) |
| 10% Shattered, Hi sev | Full-depth repair (localized) | Full-depth repair (localized) |
| 30% Shattered, Low sev | Do Nothing | Crack/Joint seal |
| 30% Shattered, Mod sev | Crack/Joint seal | Full-depth repair (localized) |
| 30% Shattered, Hi sev | Full-depth repair (localized) | Full-depth repair (localized) |
| 30% slabs, Patches Low sev | Do Nothing | Do Nothing |
| 30% slabs, Patches Med sev | Do Nothing | Partial depth repair |
| 30% slabs, Patches Hi sev | Partial depth repair | Full-depth repair (localized) |
| 50% slabs, Patches Low sev | Do Nothing | Do Nothing |
| 50% slabs, Patches Med sev | Full-depth repair (localized) | Partial depth repair |
| 50% slabs, Patches Hi sev | Partial depth repair | Full-depth repair (localized) |
| 10% slabs Fault Low sev | Do Nothing | Do Nothing |
| 10% slabs Fault Med sev | Do Nothing | Slab stabilization/ jacking/underseal |
| 10% slabs Fault Hi sev | Full-depth repair (localized) | Full-depth repair (localized) |
| 30% slabs Fault Low sev | Do Nothing | Do Nothing |
| 30% slabs Fault Med sev | Do Nothing | Slab stabilization/ jacking/underseal |
| 30% slabs Fault Hi sev | Full-depth repair (localized) | Rehab/Reconstruct |

Table 32. **Local Category- Dry Freeze Zone**

|  |  |  |
| --- | --- | --- |
|  | **Local Category- Dry Freeze Zone ,LDF** | |
| Ques | Accept | Best |
| Joint seal 5 years, still GOOD | Do Nothing | Do Nothing |
| Joint Seal Low sev | Do Nothing | Crack/Joint seal |
| Joint Seal Mod sev | Do Nothing | Crack/Joint seal |
| Joint Seal High sev | Crack/Joint seal | Crack/Joint seal |
| Joint and Corner Spall Lowsev | Partial depth repair, or Crack/Joint seal | Do Nothing |
| Joint and Corner Spall Mod sev | Crack/Joint seal | Partial depth repair |
| Joint and Corner Spall High sev | Partial Depth repair | Partial depth repair |
| Mid-Panel Crack, 20% slabs, Low sev | Crack/Joint seal | Do Nothing |
| Mid-Panel Crack, 20% slabs, Mod sev | Partial depth repair, or Full-depth repair (localized) | Crack/Joint seal |
| Mid-Panel Crack, 20% slabs, Hi sev | Concrete/Asphalt overlay | Crack/Joint seal |
| Mid-Panel Crack, 40% slabs, Low sev | Crack/Joint seal | Do Nothing |
| Mid-Panel Crack, 40% slabs,Mod sev | Partial depth repair | Crack/Joint seal |
| Mid-Panel Crack, 40% slabs, Hi sev | Full-depth repair (localized) | Rehab/Reconstruct |
| Corner Brk, 10% slab, Low sev | Crack/Joint seal | Do Nothing |
| Corner Brk, 10% slab, Mod sev | Full-depth repair (localized) | Full-depth repair (localized) |
| Corner Brk, 10% slab, Hi sev | Full-depth repair (localized) | Full-depth repair (localized) |
| Corner Brk, 30% slab, Low sev | Crack/Joint seal | Do Nothing |
| Corner Brk, 30% slab, Mod sev | Crack/Joint seal | Full-depth repair (localized) |
| Corner Brk, 30% slab, Hi sev | Full-depth repair (localized) | Rehab/Reconstruct |
| 10% Shattered, Low sev | Crack/Joint seal | Do Nothing |
| 10% Shattered, Mod sev | Crack/Joint seal | Do Nothing |
| 10% Shattered, Hi sev | Full-depth repair (localized) | Full-depth repair (localized) |
| 30% Shattered, Low sev | Crack/Joint seal | Do Nothing |
| 30% Shattered, Mod sev | Concrete/Asphalt overlay | Full-depth repair (localized) |
| 30% Shattered, Hi sev | Full-depth repair (localized) | Rehab/Reconstruct |
| 30% slabs, Patches Low sev | Do Nothing | Do Nothing |
| 30% slabs, Patches Med sev | Do Nothing | Partial Depth repair |
| 30% slabs, Patches Hi sev | Full-depth repair (localized) | Rehab/Reconstruct |
| 50% slabs, Patches Low sev | Do Nothing | Do Nothing |
| 50% slabs, Patches Med sev | Full-depth repair (localized) | Concrete/Asphalt overlay |
| 50% slabs, Patches Hi sev | Full-depth repair (localized) | Rehab/Reconstruct |
| 10% slabs Fault Low sev | Crack/Joint seal | Do Nothing |
| 10% slabs Fault Med sev | Grinding/grooving | Partial depth repair |
| 10% slabs Fault Hi sev | Concrete/Asphalt overlay | Partial depth repair |
| 30% slabs Fault Low sev | Full-depth repair (localized) | Do Nothing |
| 30% slabs Fault Med sev | Concrete/Asphalt overlay, or Slab stabilization/jacking/underseal | Grinding/grooving |
| 30% slabs Fault Hi sev | Concrete/Asphalt overlay, or Slab stabilization/jacking/underseal, or Grind/Groove | Rehab/Reconstruct |

Table 33. **Local Category- Dry No Freeze Zone**

|  |  |  |
| --- | --- | --- |
|  | **Local Category- Dry No Freeze Zone ,LDN** | |
| Ques | Accept | Best |
| Joint seal 5 years, still GOOD | Do Nothing | Do Nothing |
| Joint Seal Low sev | Do Nothing | Crack/Joint seal |
| Joint Seal Mod sev | Do Nothing | Crack/Joint seal |
| Joint Seal High sev | Crack/Joint seal | Crack/Joint seal |
| Joint and Corner Spall Lowsev | Partial depth repair, or Do Nothing | Crack/Joint seal |
| Joint and Corner Spall Mod sev | Crack/Joint seal, or Do Nothing | Partial depth repair |
| Joint and Corner Spall High sev | Crack/Joint seal | Partial depth repair |
| Mid-Panel Crack, 20% slabs, Low sev | Do Nothing | Crack/Joint seal |
| Mid-Panel Crack, 20% slabs, Mod sev | Do Nothing | Crack/Joint seal |
| Mid-Panel Crack, 20% slabs, Hi sev | Crack/Joint seal | Partial depth repair |
| Mid-Panel Crack, 40% slabs, Low sev | Do Nothing | Crack/Joint seal |
| Mid-Panel Crack, 40% slabs,Mod sev | Do Nothing | Crack/Joint seal |
| Mid-Panel Crack, 40% slabs, Hi sev | Crack/Joint seal | Rehab/Reconstruct |
| Corner Brk, 10% slab, Low sev | Do Nothing | Crack/Joint seal |
| Corner Brk, 10% slab, Mod sev | Full-depth repair (localized) | Crack/Joint seal |
| Corner Brk, 10% slab, Hi sev | Crack/Joint seal | Full-depth repair (localized) |
| Corner Brk, 30% slab, Low sev | Do Nothing | Crack/Joint seal |
| Corner Brk, 30% slab, Mod sev | Full-depth repair, or Do Nothing | Crack/Joint seal |
| Corner Brk, 30% slab, Hi sev | Full-depth repair (localized) | Rehab/Reconstruct |
| 10% Shattered, Low sev | Do Nothing | Crack/Joint seal |
| 10% Shattered, Mod sev | Crack/Joint seal | Full-depth repair (localized) |
| 10% Shattered, Hi sev | Concrete/Asphalt overlay | Full-depth repair (localized) |
| 30% Shattered, Low sev | Do Nothing | Crack/Joint seal |
| 30% Shattered, Mod sev | Full-depth repair, or Rehab/Reconstruct | Concrete/Asphalt overlay |
| 30% Shattered, Hi sev | Concrete/Asphalt overlay | Rehab/Reconstruct |
| 30% slabs, Patches Low sev | Do Nothing | Do Nothing |
| 30% slabs, Patches Med sev | Do Nothing | Partial depth repair |
| 30% slabs, Patches Hi sev | Partial depth repair | Full-depth repair (localized) |
| 50% slabs, Patches Low sev | Concrete/Asphalt overlay | Do Nothing |
| 50% slabs, Patches Med sev | Concrete/Asphalt overlay, or Partial Depth repair | Full-depth repair (localized) |
| 50% slabs, Patches Hi sev | Rehab/Reconstruct | Concrete/Asphalt overlay |
| 10% slabs Fault Low sev | Crack/Joint seal | Do Nothing |
| 10% slabs Fault Med sev | Slab stabilization/jacking/underseal | Do Nothing |
| 10% slabs Fault Hi sev | Slab stabilization/jacking/underseal | Crossstitching/dowelbar retrofit |
| 30% slabs Fault Low sev | Full-depth repair (localized) | Do Nothing |
| 30% slabs Fault Med sev | Grinding/grooving | Concrete/Asphalt overlay |
| 30% slabs Fault Hi sev | Concrete/Asphalt overlay | Rehab/Reconstruct |

Table 34. **Local Category- Wet No Freeze Zone**

|  |  |  |
| --- | --- | --- |
|  | **Local Category- Wet No Freeze Zone ,LWN** | |
| Ques | Accept | Best |
| Joint seal 5 years, still GOOD | Do Nothing | Do Nothing |
| Joint Seal Low sev | Do Nothing | Crack/Joint seal |
| Joint Seal Mod sev | Crack/Joint seal | Crack/Joint seal |
| Joint Seal High sev | Crack/Joint seal | Crack/Joint seal |
| Joint and Corner Spall Lowsev | Crack/Joint seal | Do Nothing |
| Joint and Corner Spall Mod sev | Crack/Joint seal, or Do Nothing | Partial depth repair |
| Joint and Corner Spall High sev | Crack/Joint seal | Partial depth repair |
| Mid-Panel Crack, 20% slabs, Low sev | Do Nothing | Crack/Joint seal |
| Mid-Panel Crack, 20% slabs, Mod sev | Do Nothing | Crack/Joint seal |
| Mid-Panel Crack, 20% slabs, Hi sev | Crack/Joint seal | Partial depth repair |
| Mid-Panel Crack, 40% slabs, Low sev | Do Nothing | Crack/Joint seal |
| Mid-Panel Crack, 40% slabs,Mod sev | Partial Depth repair | Crack/Joint seal |
| Mid-Panel Crack, 40% slabs, Hi sev | Crack/Joint seal | Rehab/Reconstruct |
| Corner Brk, 10% slab, Low sev | Crack/Joint seal | Do Nothing |
| Corner Brk, 10% slab, Mod sev | Full-depth repair (localized) | Crack/Joint seal |
| Corner Brk, 10% slab, Hi sev | Crack/Joint seal | Full-depth repair (localized) |
| Corner Brk, 30% slab, Low sev | Do Nothing | Crack/Joint seal |
| Corner Brk, 30% slab, Mod sev | Full-depth repair, or Do Nothing | Crack/Joint seal |
| Corner Brk, 30% slab, Hi sev | Full-depth repair (localized) | Rehab/Reconstruct |
| 10% Shattered, Low sev | Full-depth repair, or Do Nothing | Crack/Joint seal |
| 10% Shattered, Mod sev | Crack/Joint seal | Full-depth repair (localized) |
| 10% Shattered, Hi sev | Concrete/Asphalt overlay | Full-depth repair (localized) |
| 30% Shattered, Low sev | Do Nothing | Crack/Joint seal |
| 30% Shattered, Mod sev | Rehab/Reconstruct | Full-depth repair (localized) |
| 30% Shattered, Hi sev | Concrete/Asphalt overlay | Rehab/Reconstruct |
| 30% slabs, Patches Low sev | Do Nothing | Do Nothing |
| 30% slabs, Patches Med sev | Partial depth repair, or Do Nothing | Do Nothing |
| 30% slabs, Patches Hi sev | Partial depth repair, or Do Nothing | Full-depth repair (localized) |
| 50% slabs, Patches Low sev | Do Nothing | Do Nothing |
| 50% slabs, Patches Med sev | Concrete/Asphalt overlay, or Do Nothing | Partial depth repair |
| 50% slabs, Patches Hi sev | Rehab/Reconstruct | Concrete/Asphalt overlay |
| 10% slabs Fault Low sev | Do Nothing | Partial depth repair |
| 10% slabs Fault Med sev | Slab stabilization/jacking/underseal, or Do Nothing | Partial depth repair |
| 10% slabs Fault Hi sev | Slab stabilization/jacking/underseal | Crossstitching/dowelbar retrofit |
| 30% slabs Fault Low sev | Full-depth repair (localized) | Concrete/Asphalt overlay |
| 30% slabs Fault Med sev | Rehab/Reconstruct | Concrete/Asphalt overlay |
| 30% slabs Fault Hi sev | Concrete/Asphalt overlay | Rehab/Reconstruct |

Table 35. **Basic Category- Wet Freeze Zone**

|  |  |  |
| --- | --- | --- |
|  | **Basic Category- Wet Freeze Zone ,BWF** | |
| Ques | Accept | Best |
| Joint seal 5 years, still GOOD | Do Nothing | Do Nothing |
| Joint Seal Low sev | Do Nothing | Do Nothing |
| Joint Seal Mod sev | Do Nothing | Crack/Joint seal |
| Joint Seal High sev | Crack/Joint seal | Crack/Joint seal |
| Joint and Corner Spall Lowsev | Crack/Joint seal | Do Nothing |
| Joint and Corner Spall Mod sev | Crack/Joint seal | Do Nothing |
| Joint and Corner Spall High sev | Crack/Joint seal | Partial depth repair |
| Mid-Panel Crack, 20% slabs, Low sev | Crack/Joint seal | Do Nothing |
| Mid-Panel Crack, 20% slabs, Mod sev | Crack/Joint seal | Do Nothing |
| Mid-Panel Crack, 20% slabs, Hi sev | Partial depth repair | Full-depth repair (localized) |
| Mid-Panel Crack, 40% slabs, Low sev | Crack/Joint seal | Do Nothing |
| Mid-Panel Crack, 40% slabs,Mod sev | Crack/Joint seal | Full-depth repair (localized) |
| Mid-Panel Crack, 40% slabs, Hi sev | Rehab/Reconstruct | Full-depth repair (localized) |
| Corner Brk, 10% slab, Low sev | Crack/Joint seal | Do Nothing |
| Corner Brk, 10% slab, Mod sev | Do Nothing | Crack/Joint seal |
| Corner Brk, 10% slab, Hi sev | Full-depth repair (localized) | Full-depth repair (localized) |
| Corner Brk, 30% slab, Low sev | Crack/Joint seal | Do Nothing |
| Corner Brk, 30% slab, Mod sev | Full-depth repair | Crack/Joint seal |
| Corner Brk, 30% slab, Hi sev | Crack/Joint seal | Full-depth repair (localized) |
| 10% Shattered, Low sev | Crack/Joint seal | Do Nothing |
| 10% Shattered, Mod sev | Full-depth repair (localized) | Crack/Joint seal |
| 10% Shattered, Hi sev | Full-depth repair (localized) | Full-depth repair (localized) |
| 30% Shattered, Low sev | Crack/Joint seal | Do Nothing |
| 30% Shattered, Mod sev | Full-depth repair (localized) | Crack/Joint seal |
| 30% Shattered, Hi sev | Full-depth repair (localized) | Full-depth repair (localized) |
| 30% slabs, Patches Low sev | Do Nothing | Do Nothing |
| 30% slabs, Patches Med sev | Do Nothing | Partial depth repair |
| 30% slabs, Patches Hi sev | Partial depth repair | Full-depth repair (localized) |
| 50% slabs, Patches Low sev | Do Nothing | Do Nothing |
| 50% slabs, Patches Med sev | Full-depth repair (localized) | Partial depth repair |
| 50% slabs, Patches Hi sev | Full-depth repair (localized) | Partial depth repair |
| 10% slabs Fault Low sev | Do Nothing | Do Nothing |
| 10% slabs Fault Med sev | Do Nothing | Crack/Joint seal |
| 10% slabs Fault Hi sev | Grinding/grooving | Slab stabilization/jacking/underseal |
| 30% slabs Fault Low sev | Crack/Joint seal | Do Nothing |
| 30% slabs Fault Med sev | Slab stabilization/jacking/underseal | Grinding/grooving |
| 30% slabs Fault Hi sev | Grinding/grooving | Rehab/Reconstruct |

Table 36. **Basic Category- Dry Freeze Zone**

|  |  |  |
| --- | --- | --- |
|  | **Basic Category- Dry Freeze Zone BDF** | |
| Ques | Accept | Best |
| Joint seal 5 years, still GOOD | Do Nothing | Do Nothing |
| Joint Seal Low sev | Do Nothing | Do Nothing |
| Joint Seal Mod sev | Do Nothing | Crack/Joint seal |
| Joint Seal High sev | Crack/Joint seal | Crack/Joint seal |
| Joint and Corner Spall Lowsev | Crack/Joint seal | Do Nothing |
| Joint and Corner Spall Mod sev | Crack/Joint seal | Do Nothing |
| Joint and Corner Spall High sev | Crack/Joint seal | Partial depth repair |
| Mid-Panel Crack, 20% slabs, Low sev | Crack/Joint seal | Do Nothing |
| Mid-Panel Crack, 20% slabs, Mod sev | Crack/Joint seal | Do Nothing |
| Mid-Panel Crack, 20% slabs, Hi sev | Partial depth repair | Full-depth repair (localized) |
| Mid-Panel Crack, 40% slabs, Low sev | Crack/Joint seal | Do Nothing |
| Mid-Panel Crack, 40% slabs,Mod sev | Crack/Joint seal | Full-depth repair (localized) |
| Mid-Panel Crack, 40% slabs, Hi sev | Rehab/Reconstruct | Full-depth repair (localized) |
| Corner Brk, 10% slab, Low sev | Crack/Joint seal | Do Nothing |
| Corner Brk, 10% slab, Mod sev | Do Nothing | Crack/Joint seal |
| Corner Brk, 10% slab, Hi sev | Full-depth repair (localized) | Full-depth repair (localized) |
| Corner Brk, 30% slab, Low sev | Crack/Joint seal | Do Nothing |
| Corner Brk, 30% slab, Mod sev | Full-depth repair | Crack/Joint seal |
| Corner Brk, 30% slab, Hi sev | Crack/Joint seal | Full-depth repair (localized) |
| 10% Shattered, Low sev | Crack/Joint seal | Do Nothing |
| 10% Shattered, Mod sev | Full-depth repair (localized) | Crack/Joint seal |
| 10% Shattered, Hi sev | Full-depth repair (localized) | Full-depth repair (localized) |
| 30% Shattered, Low sev | Crack/Joint seal | Do Nothing |
| 30% Shattered, Mod sev | Full-depth repair (localized) | Crack/Joint seal |
| 30% Shattered, Hi sev | Full-depth repair (localized) | Full-depth repair (localized) |
| 30% slabs, Patches Low sev | Do Nothing | Do Nothing |
| 30% slabs, Patches Med sev | Do Nothing | Partial depth repair |
| 30% slabs, Patches Hi sev | Partial depth repair | Full-depth repair (localized) |
| 50% slabs, Patches Low sev | Do Nothing | Do Nothing |
| 50% slabs, Patches Med sev | Full-depth repair (localized) | Partial depth repair |
| 50% slabs, Patches Hi sev | Full-depth repair (localized) | Partial depth repair |
| 10% slabs Fault Low sev | Do Nothing | Do Nothing |
| 10% slabs Fault Med sev | Do Nothing | Crack/Joint seal |
| 10% slabs Fault Hi sev | Grinding/grooving | Slab stabilization/jacking/underseal |
| 30% slabs Fault Low sev | Crack/Joint seal | Do Nothing |
| 30% slabs Fault Med sev | Slab stabilization/jacking/underseal | Grinding/grooving |
| 30% slabs Fault Hi sev | Grinding/grooving | Rehab/Reconstruct |

Table 37. **Basic Category- Dry No Freeze Zone**

|  |  |  |
| --- | --- | --- |
|  | **Basic Category- Dry No Freeze Zone BDN** | |
| Ques | Accept | Best |
| Joint seal 5 years, still GOOD | Do Nothing | Do Nothing |
| Joint Seal Low sev | Do Nothing | Do Nothing |
| Joint Seal Mod sev | Do Nothing | Crack/Joint seal |
| Joint Seal High sev | Crack/Joint seal | Crack/Joint seal |
| Joint and Corner Spall Lowsev | Crack/Joint seal | Do Nothing |
| Joint and Corner Spall Mod sev | Crack/Joint seal | Do Nothing |
| Joint and Corner Spall High sev | Crack/Joint seal | Partial depth repair |
| Mid-Panel Crack, 20% slabs, Low sev | Crack/Joint seal | Do Nothing |
| Mid-Panel Crack, 20% slabs, Mod sev | Crack/Joint seal | Do Nothing |
| Mid-Panel Crack, 20% slabs, Hi sev | Partial depth repair | Full-depth repair (localized) |
| Mid-Panel Crack, 40% slabs, Low sev | Crack/Joint seal | Do Nothing |
| Mid-Panel Crack, 40% slabs,Mod sev | Crack/Joint seal | Full-depth repair (localized) |
| Mid-Panel Crack, 40% slabs, Hi sev | Rehab/Reconstruct | Full-depth repair (localized) |
| Corner Brk, 10% slab, Low sev | Crack/Joint seal | Do Nothing |
| Corner Brk, 10% slab, Mod sev | Do Nothing | Crack/Joint seal |
| Corner Brk, 10% slab, Hi sev | Full-depth repair (localized) | Full-depth repair (localized) |
| Corner Brk, 30% slab, Low sev | Crack/Joint seal | Do Nothing |
| Corner Brk, 30% slab, Mod sev | Full-depth repair | Crack/Joint seal |
| Corner Brk, 30% slab, Hi sev | Crack/Joint seal | Full-depth repair (localized) |
| 10% Shattered, Low sev | Crack/Joint seal | Do Nothing |
| 10% Shattered, Mod sev | Full-depth repair (localized) | Crack/Joint seal |
| 10% Shattered, Hi sev | Full-depth repair (localized) | Full-depth repair (localized) |
| 30% Shattered, Low sev | Crack/Joint seal | Do Nothing |
| 30% Shattered, Mod sev | Full-depth repair (localized) | Crack/Joint seal |
| 30% Shattered, Hi sev | Full-depth repair (localized) | Full-depth repair (localized) |
| 30% slabs, Patches Low sev | Do Nothing | Do Nothing |
| 30% slabs, Patches Med sev | Do Nothing | Partial depth repair |
| 30% slabs, Patches Hi sev | Partial depth repair | Full-depth repair (localized) |
| 50% slabs, Patches Low sev | Do Nothing | Do Nothing |
| 50% slabs, Patches Med sev | Full-depth repair (localized) | Partial depth repair |
| 50% slabs, Patches Hi sev | Full-depth repair (localized) | Partial depth repair |
| 10% slabs Fault Low sev | Do Nothing | Do Nothing |
| 10% slabs Fault Med sev | Do Nothing | Crack/Joint seal |
| 10% slabs Fault Hi sev | Grinding/grooving | Slab stabilization/jacking/underseal |
| 30% slabs Fault Low sev | Crack/Joint seal | Do Nothing |
| 30% slabs Fault Med sev | Slab stabilization/jacking/underseal | Grinding/grooving |
| 30% slabs Fault Hi sev | Grinding/grooving | Rehab/Reconstruct |

Table 38. **Basic Category- Wet No Freeze Zone**

|  |  |  |
| --- | --- | --- |
|  | **Basic Category- Wet No Freeze Zone ,BWN** | |
| Ques | Accept | Best |
| Joint seal 5 years, still GOOD | Do Nothing | Do Nothing |
| Joint Seal Low sev | Do Nothing | Crack/Joint seal |
| Joint Seal Mod sev | Do Nothing | Crack/Joint seal |
| Joint Seal High sev | Crack/Joint seal | Crack/Joint seal |
| Joint and Corner Spall Lowsev | Do Nothing | Crack/Joint seal |
| Joint and Corner Spall Mod sev | Do Nothing | Crack/Joint seal |
| Joint and Corner Spall High sev | Partial depth repair | Crack/Joint seal |
| Mid-Panel Crack, 20% slabs, Low sev | Do Nothing | Crack/Joint seal |
| Mid-Panel Crack, 20% slabs, Mod sev | Crack/Joint seal | Crack/Joint seal |
| Mid-Panel Crack, 20% slabs, Hi sev | Crack/Joint seal | Full-depth repair (localized) |
| Mid-Panel Crack, 40% slabs, Low sev | Do Nothing | Crack/Joint seal |
| Mid-Panel Crack, 40% slabs,Modsev | Crack/Joint seal, or Full-depth repair | Rehab/Reconstruct |
| Mid-Panel Crack, 40% slabs, Hi sev | Full-depth repair | Rehab/Reconstruct |
| Corner Brk, 10% slab, Low sev | Do Nothing | Crack/Joint seal |
| Corner Brk, 10% slab, Mod sev | Do Nothing | Crack/Joint seal |
| Corner Brk, 10% slab, Hi sev | Crack/Joint seal | Full-depth repair (localized) |
| Corner Brk, 30% slab, Low sev | Do Nothing | Crack/Joint seal |
| Corner Brk, 30% slab, Mod sev | Full-depth repair, or Do Nothing | Crack/Joint seal |
| Corner Brk, 30% slab, Hi sev | Full-depth repair (localized) | Full-depth repair (localized) |
| 10% Shattered, Low sev | Crack/Joint seal | Crack/Joint seal |
| 10% Shattered, Mod sev | Crack/Joint seal | Full-depth repair (localized) |
| 10% Shattered, Hi sev | Concrete/Asphalt overlay | Full-depth repair (localized) |
| 30% Shattered, Low sev | Do Nothing | Crack/Joint seal |
| 30% Shattered, Mod sev | Crack/Joint seal | Full-depth repair (localized) |
| 30% Shattered, Hi sev | Concrete/Asphalt overlay | Full-depth repair (localized) |
| 30% slabs, Patches Low sev | Do Nothing | Do Nothing |
| 30% slabs, Patches Med sev | Do Nothing | Partial depth repair |
| 30% slabs, Patches Hi sev | Partial depth repair | Full-depth repair (localized) |
| 50% slabs, Patches Low sev | Do Nothing | Do Nothing |
| 50% slabs, Patches Med sev | Partial depth repair | Full-depth repair (localized) |
| 50% slabs, Patches Hi sev | Partial depth repair | Full-depth repair (localized) |
| 10% slabs Fault Low sev | Do Nothing | Crack/Joint seal |
| 10% slabs Fault Med sev | Slab stabilization/jacking/underseal | Crack/Joint seal |
| 10% slabs Fault Hi sev | Slab stabilization/jacking/underseal | Grinding/grooving |
| 30% slabs Fault Low sev | Slab stabilization/jacking/underseal, or Crack/Joint seal | Do Nothing |
| 30% slabs Fault Med sev | Slab stabilization/jacking/underseal, or Crack/Joint seal | Grinding/grooving |
| 30% slabs Fault Hi sev | Slab stabilization/jacking/underseal | Grinding/grooving |

**Table 39. Example from Excel Sheet – All Responses-PCC**

|  |  |  |
| --- | --- | --- |
|  | Joint seal is about 5 years old still in GOOD condition | |
| Treatment | Acceptable | Best |
| Do nothing | NWF,NDF,NDN,NWN,RWF,RDF,RDN,RWN,LWF,LDF,LDN,LWN,BWF,BDF,BDN,BWN | NWF,NDF,NDN,NWN,RWF,RWN,RDN,RWN,LWF,LDF,LDN,LWN,BWN,BWF,BDF,BDN,BWN |
| Crack/ joint seal |  | RDF |
| Partial depth repair |  |  |
| Full-depth repair (localized) |  |  |
| Crossstitching/dowel bar retrofit |  |  |
| Slab stabilization/  jacking/underseal |  |  |
| Concrete/asphalt overlay |  |  |
| Grinding/grooving |  |  |
| TOO SEVERE (Rehab/Reconstruct) |  |  |
|  |  |  |
| No Response Received |  |  |
| **NWF** | NWF |  |
| **NDF** | **NDF** | **NDF** |
| **NDN** | **NDN** | **NDN** |
| **NWN** | NWN | NWN |
| **RWF** | **RWF** |  |
| RDF |  |  |
| RDN | RDN | RDN |
| RWN | RWN |  |
| LWF |  |  |
| LDF | LDF |  |
| LDN | LDN |  |
| LWN | LWN | LWN |
| BWF | BWF | BWF |
| BDF | BDF | BDF |
| BDN | BDN | BDN |
| BWN | BWN |  |

**Table 40. Order of Precedence – PCC Pavements**

|  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| Treatment | Do Nothing | Crack/ joint seal | Partial depth repair | Full-depth repair (local) | Crossstitch/dowelbar retrofit | Slab stabilization /jack/underseal | PCC/AC overlay | Grind/ groove | Rehab/Recon |
| Do Nothing | X | Crack/ joint seal | Partial depth repair | Full-depth repair (local) | Crossstitch/dowelbar retrofit | Slab stabilization/ jack/underseal | PCC/AC overlay | Grind/ groove | Rehab/Recon |
| Crack/ joint seal | Crack/ joint seal | X | Partial depth repair | Full-depth repair (local) | Crossstitch/dowelbar retrofit | Slab stabilization/ jack/underseal | PCC/AC overlay | Grind/ groove | Rehab/Recon |
| Partial depth repair | Partial depth repair | Both | X | Full-depth repair (local) | Crossstitch/dowelbar retrofit | Slab stabilization/ jack/underseal | PCC/AC overlay | Grind/ groove | Rehab/Recon |
| Full-depth repair (local) | Full-depth repair (local) | Both | Full-depth repair (local) | X | Crossstitch/dowelbar retrofit | Slab stabilization/ jack/underseal | PCC/AC overlay | Grind/ groove | Rehab/Recon |
| Crossstitch/dowelbar retrofit | Crossstitch/dowelbar retrofit | Both | Crossstitch/dowelbar retrofit | Crossstitch/dowel bar retrofit | X | Both | PCC/AC overlay | Grind/ groove | Rehab/Recon |
| Slab stabilization/ jack/underseal | Slab stabilization/ jack/underseal | Both | Slab stabilization/ jack/underseal | Both | Slab stabilization/ jack/underseal | X | Both | Both | Rehab/Recon |
| PCC/AC overlay | PCC/AC overlay | Both | Both | Both | Both | Both | X | PCC/ AC overlay | Rehab/Recon |
| Grind/groov | Grind/groov | Both | Both | Both | Both | Both | PCC/AC overlay | X | Rehab/Recon |
| Rehab/Recon | Rehab/Recon | Rehab/Recon | Rehab/Recon | Rehab/Recon | Rehab/Recon | Rehab/ Recon | Rehab/ Recon | Rehab/ Recon | X |