

# Minnesota PG3 Draft Proposal / Expectations

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Minnesota's Interest/Expectations for PG3 "Minnesota Sections"  
**Draft Proposal**

## **MnDOT Proposed Treatment**

- Cape Seal (Scrub Seal + Thinlay)
- Performed well on CSAH8 and US-169 northern PP test cells under PG2 effort.



# Cape Seal Section 12 – Installed summer 2016 – PG2 Type II Micro over FA2.5 Scrub Chip Seal

Apr 2021



Apr 2022



# Minnesota's Interest/Expectations for PG3 "Minnesota Sections"

## Draft Proposal

### Primary Focus

- Cape Seal (Scrub Seal + Thinlay)
- Performed well on CSAH8 and US-169 northern PP test cells

### Secondary Efforts

- Add Crack Sealing and/or Micromilling in adjacent test cells

### Final Outcome

- Will depend on Districts level of funding and support

		Test Section					
		1	2	3	4	5	6
Treatments		Thinlay (HMA 4.75)		Micro Surfacing (Wear Course)			Control
		Chip or Scrub Seal		Chip Seal			
		Micromill		Micro Surfacing (Scratch Course)			
Existing Cracked Roadway (RQI<2.6, PCI~70)							
Comment	Primary objective is to better understand Cape Seal performance	MnDOT knows micromilling helps improve ride	MicroSurfacing instead of Thinlay (MnDOT does a lot of MicroSufacing)	Would placing Chip Seal between Micro Surfacing courses help?	Current Practice		Control (Do nothing) expect will not last long

# Minnesota's Interest/Expectations for PG3 "Minnesota Sections"

## Pre-Construction: Spec Review

### What MnDOT is looking for

- Cape Seal Spec Review (Scrub Seal with Thinlay)
- Primary Assistance from NCPP / Secondary feedback from Industry

### Secondary Efforts

- Crack Sealing / Micromilling
- Not looking for input here but open to ideas

		Test Section					
		1	2	3	4	5	6
Treatments		Thinlay (HMA 4.75)		Micro Surfacing (Wear Course)			Control
		Chip or Scrub Seal			Chip Seal		
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# Minnesota's Interest/Expectations for PG3 "Minnesota Sections"

## Pre-Construction: Field Review

### Day Before (Just in Time)

- Inspector/Contractor Training
  - Equipment
    - Condition Review
    - Calibration
  - Materials Review
  - Review Design Application Rates

		Test Section					
		1	2	3	4	5	6
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		Chip or Scrub Seal			Chip Seal		
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# Minnesota's Interest/Expectations for PG3 "Minnesota Sections" Field Construction Oversight

## Day of Construction

- Materials
- Application rates
- Equipment
- Awareness
  - Best Practices
  - Construction Issues

## Sampling Materials

		Test Section					
		1	2	3	4	5	6
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# Minnesota's Interest/Expectations for PG3 "Minnesota Sections" Field Performance Monitoring

## MnDOT

- Minimum Quarterly Monitoring

## Secondary Efforts

- Crack Sealing / Micromilling / Micro Surfacing

		Test Section					
		1	2	3	4	5	6
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		Chip or Scrub Seal			Chip Seal		
		Micromill			Micro Surfacing (Scratch Course)		
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# Minnesota's Interest/Expectations for PG3 "Minnesota Sections" Analysis

## NCAT

- Pull our Minnesota Data into Analysis Dataset Tool
- Allow Local Cost Inputs

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# Minnesota's Interest/Expectations for PG3 "Minnesota Sections" Timelines

End of  
Phase III



2029

## Minnesota Construction

NCPP and Industry Support



MnDOT Post-Monitoring

2026

## Field Review

Inspector and contractor Training Day  
NCPP and Industry Support Before

MnDOT Pre-Monitoring



## Construction Specifications

MnDOT work with PG3 members to  
define spec and develop into a MnDOT  
construction project with the district

2025



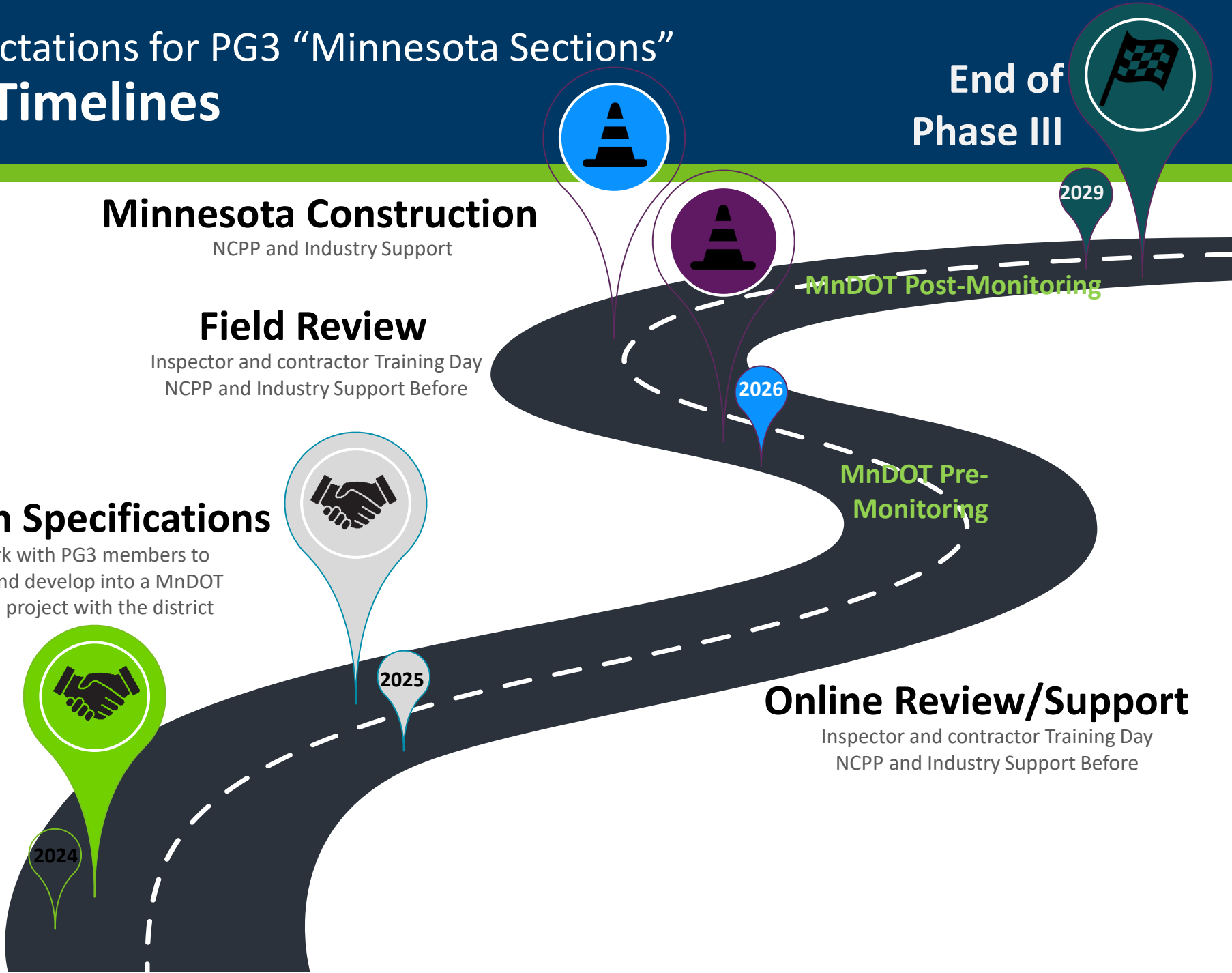
## Online Review/Support

Inspector and contractor Training Day  
NCPP and Industry Support Before

## Nomination

Work with District on construction and  
start discussion with PG3 members

2024



# Questions / Comments

**Working together you can be a part of something bigger than yourself**



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