Montana Department of Transportation
2701 Prospect Avenue
PO Box 201001
Helena MT 59620-1001

Jim Lynch, Director
Brian Schweitzer, Governor

April 9, 2010

MASTER FILE COPY

Alan Woodmansey, P.E.
Great Falls and Billings Districts Operations Engineer
Federal Highway Administration (FHWA)
585 Shepard Way
Helena MT 59602

Subject: Statewide Programmatic Categorical Exclusion for Pavement Preservation Projects
Simms-JCT S-434
NH 24-3(37)101
Control Number: 6963000

Dear Alan Woodmansey:

The MDT Environmental Services Bureau has reviewed the Preliminary Field Review/Scope of Work Report (PFR/SOW) for the subject project. Based on the completed Environmental Checklist for Pavement Preservation Projects (Checklist), we conclude that the Statewide Programmatic Categorical Exclusion for these types of projects would cover this project. For your information, I have attached a copy of the PFR/SOW (including the location map) and the signed Environmental Checklist. Environmental-related Special Provisions will be included in the contract plans.

If you have questions or concerns, please contact Eric Thunstrom at 444-7648. He will be pleased to assist you.

Sincerely,

Heidy Bruner, P.E.
Environmental Services Bureau Engineering Section Supervisor

Attachments: Environmental Checklist, PFR/SOW Report

copies with attachment (Checklist only, unless noted):

Michael P. Johnson	Great Falls District Administrator
Tom Martin, P.E.	Environmental Services Bureau Chief
Heidy Bruner, P.E.	Environmental Services Bureau Engineering Section Supervisor
Eric Thunstrom	Environmental Services Bureau Project Development Engineer
Paul Ferry, P.E.	Highways Engineer
Dustin Rouse, P.E.	Road Design Area Engineer
Kevin Christensen, P.E.	Construction Engineer
Suzy Price	Contract Plans Bureau Chief
David Jensen	Fiscal Programming Section Supervisor
Montana Legislative Branch	Environmental Quality Council (w/ PFR/SOW also)
✓ File	Environmental Services Bureau

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Environmental Services Bureau
Phone: (406) 444-7228
Fax: (406) 444-7245

Rail, Transit and Planning Division
TTY: (800) 335-7592
Web Page: www.mdt.mt.gov

(FOR PROJECTS WITH NO RIGHT-OF-WAY INVOLVEMENT)

Applicant cannot be authorized to proceed with the proposed work until ALL of the conditions of the checklist have been satisfied.

ENVIRONMENTAL CHECKLIST FOR PAVEMENT PRESERVATION PROJECTS (CRACK SEALING, SEAL & COVER, THIN OVERLAYS, MILL & FILL, PLANT MIX LEVELING, MILL OGFC, MICRO SURFACING, FOG SEAL)

Project No.: NH 24-3(37)101 **ID:** UPN 6963000 **Project Name:** Simms Jct. S-434

Reference Post (Station) RP 99.534± **to Reference Post (Station)** RP 116.800±

Applicants Name: MDT **Address:** 2701 Prospect, Helena MT 59620-1001

Type of Proposed Pavement Preservation Activity: Work Type : 183 – Resurfacing Seal & Cover

IMPACTS ON THE PHYSICAL ENVIRONMENT (TO BE COMPLETED BY APPLICANT)				
	Impact Questions	[Y/N] There are Potential Impacts; or Item Requires Documentation, Evaluation, Mitigation Measures, and/or (a) Permit(s). Yes	No	Comment or List Documentation, Evaluation, Mitigation Measure, and/or (a) Permit(s) Required for Items 1 through 7.(Use attachments if necessary)
1.	Does the proposed action require work in, across, and/or adjacent to a river which is a component of, or proposed for inclusion in Montana's Wild and/or Scenic Rivers system. (See listing on page 3)	☐	☒	
2.	Are there any recorded occurrences, and/or critical habitat for Federally-listed Threatened and Endangered Species in the vicinity of the proposed activity?	☒	☐	
3.	Does the proposed action have an impact on water quality? If answer is NO go to question 4.	☐	☒	
3a.	If the answer to number 3 is yes, is a Clean Water Act ' Section 402 permit required? (MPDES issued by MDEQ)	☐	☐	☒ N/A
4.	Does the proposed project have impacts to wetlands or waters of the U.S.? If answer is NO go to question 5.	☐	☒	
4a.	If the answer to number 4 is yes, is a Clean Water Act ' 404 permit authorization required?	☐	☐	☒ N/A
4b.	If the answer to number 3 or 4 is yes, is a Stream Protection Act ' 124SPA permit required? (Issued by MDFWP)	☐	☐	☒ N/A
5.	Does the proposed project involve hazardous waste site[s]? (Superfund, spills, underground storage tanks, etc.)	☐	☒	
6.	Is the proposed activity on and/or within approximately 1.6 Km (1 mile) of an Indian Reservation? If answer is NO go to question 7.	☐	☒	
6a.	Are any Tribal water permits required?	☐	☐	☒ N/A
7.	Is the proposed project in a "Class I Air Shed" (Some Indian Reservations)?	☐	☐	☒ N/A

8. Magnitude and significance of potential impacts: To be completed by applicant.

Checklist prepared by: Dustin Rouse (Applicant) Project Design Engineer (Title) April 9, 2010 (Date)

Approved by: ENG SECTION SUPERVISOR (Title) 4/12/10 (Date)

Environmental Services

Montana Department of Transportation
PO Box 201001
Helena, MT 59620-1001

Memorandum

To: Distribution

From: Paul R. Ferry, P.E. [PRF]
Highways Engineer

Date: March 19, 2010

Subject: NH 24-3(37)101
SIMMS – JCT. S-434
6963000
Work Type : 183 - Resurfacing Seal & Cover

Attached is the Preliminary Field Review Report/Scope of Work Report which was approved on 3/23/10____. We request that those on the distribution review this report and submit your concurrence within two weeks of the approval date.

Your comments and recommendations are also requested if you do not concur or concur subject to certain conditions. When all personnel on the distribution list have concurred, and the environmental documentation is approved, we will submit this report to the Chief Engineer for approval.

I recommend approval:
Approved _____ Date _____

Distribution:
Mick Johnson, District Administrator
Kent Barnes, Bridge Engineer
Tom Martin, Environmental Services Bureau Chief
Duane Williams, Traffic and Safety Engineer
John Horton, Right-of-Way Bureau Chief
Paul Ferry, Highways Engineer
Lynn Zanto, Rail, Transit, & Planning Division Administrator
Jake Goettle, Construction Engineering Services Bureau
Matt Strizich, Materials Engineer
Jon Swartz, Maintenance Administrator
FHWA - Operations Engineer (full oversight)

cc:
Dave Jensen, Fiscal Programming Section Supervisor
Dustin Rouse, Project Design Manager, G F District
Damian Krings, Road Design Engineer (if involved)

e-copies:
Jim Walther, Engineering, Preconstruction Engineer
Lesly Tribelhorn, Highways Design Engineer
Mark Goodman, Hydraulics Engineer
Kurt Marcoux, District Hydraulics Engineer
Bonnie Gundrum, Env. Resources Section Supervisor
Paul Sturm, District Biologist
Eric Thunstrom, District Project Development Engineer
Danielle Bolan, Traffic Engineer
Ivan Ulberg, G.F. District Traffic Project Engineer
Pierre Jomini, Safety Management Engineer
Kevin McCray, Bridge Area Engineer, GF District
Matt Strizich, Materials Engineer
Jon Watson, Pavement Engineer
Lee Grosch, District Geotechnical Manager
Bryce Larsen, Supervisor, Photogrammetry & Survey
Marty Beatty, Engineering Information Services
Paul Grant, Public Involvement Officer
Jean Riley, Planner
Jason Sorenson, Engineering Cost Analyst
Jake Goettle, Construction Bureau – VA Engineer
Steve Prinzing, District Preconstruction Engineer
Christie McOmber, District Projects Engineer
Stan Kuntz, G.F. District Materials Lab
David Hand, G.F. District Maintenance Chief
Walt Scott, R/W Utilities Section Supervisor
Jim Mullins, R/W Design Manager
Greg Pizzini, Acquisition Manager
Joe Zody, R/W Access Management Section Manager
Gary Larson, Project Analysis Bureau Chief
Sue Sillick, Research Section Supervisor
Becky Duke, Traffic Data Collection Section Supervisor (WIM)
Mark Keeffe, Bicycle/Pedestrian Coordinator
Wayne Noem, Secondary Roads Engineer

Montana Department of Transportation
PO Box 201001
Helena, MT 59620-1001

Memorandum

To: Paul R. Ferry, P.E.
Highways Engineer

From: Damian M. Krings, P.E. [DMK]
Road Design Engineer

Date: March 19, 2010

Subject: NH 24-3(37)101
SIMMS – JCT. S-434
6963000
Work Type : 183 - Resurfacing Seal & Cover

Please approve the attached Preliminary Field Review Report/Scope of Work Report.

Approved Paul R. Ferry Date 3/23/10
Paul R. Ferry, P.E.
Highways Engineer

The same report is also being distributed under a separate cover as a Scope of Work Report for comments and approval recommendations.

cc (w/attach.):
Damian Krings, Road Design Engineer

Introduction

This report was developed from information taken from the preliminary field review conducted on January 27, 2010. The following people were in attendance:

Mick Johnson	District Administrator	MDT - Great Falls
Steve Prinzing	D.E.S.E.	MDT - Great Falls
Dustin Rouse	Road Design, Project Manager	MDT - Helena
Lotse Townsend	Road Design	MDT - Helena
James Dunbar	Road Design	MDT - Helena
Steve McEvoy	Pavement Analysis	MDT - Helena
Gary Engman	Maintenance Superintendent	MDT - Great Falls
James Combs	Traffic	MDT - Great Falls
Gerry Brown	Const. Eng. Services	MDT - Great Falls
Louise Stoner	Road Design	MDT - Great Falls

Proposed Scope of Work

This project was nominated as a preventative maintenance crack seal and seal and cover. The District would also like to add an 8" wide rumble strip on the fog line through the project, and extend the project limits to RP 99.534 to include chip sealing 75 feet on planned project NH 24-3(35)100, Culvert-NE of Rogers Pass.

Purpose and Need

The intent of this seal and cover project is to extend the life of the existing plant mix surface, provide a skid resistant surface, and provide new pavement markings.

Project Location and Limits

a. This project is located east of Lincoln on National Highway Route 24/MT 200 in Lewis and Clark County. The project begins at the west end of the intersection of S-434, RP 99.534±**,** and extends northeast for 17.27 miles (27.79 km), ending at RP 116.8±**.**
b. The route is functionally classified as a principal arterial.
c. Adjacent project number NH 24-3(34)91 connects with this project on the southwest side and NH 24-4(15)117 connects at the end of the project on the northeast side.
d. Road log lists F 24 3(5) as the last as built project for RP 100.539 thru 109.51 and NH 24-3(23)109 as the last as built project for RP 109.51 thru RP 121.50.
e. Project stationing, as well as reference posts, proceed west to east.

Work Zone Safety and Mobility

At this time, Level 2 construction zone impacts are anticipated for this project as defined in the Work Zone Safety and Mobility (WZSM) guidance. The plans package will include a Transportation Management Plan (TMP) consisting of a Traffic Control Plan (TCP).

Physical Characteristics

a. This project is located in a rural environment with rolling terrain.
b. The land adjacent to the project consist mainly of rangeland.
c. The existing pavement width varies around 20.0' to 56.0'. The majority of the finished roadway is 30 feet.
d. According to as-built plans, in 1982 under project F 24-3(5)100, the existing roadway was reconstructed to a 30' top width. As-builts show the existing PMS section consisting of 0.25' of Grade B Plant Mix Surfacing, 0.15' of Crushed Top Surfacing Type "A" Grade 2, and 1.0' of Crushed Base Course Type "A" Grade 5. The project limits were RP 100.539 thru 109.51.

In 1996, beginning at RP 109.51 thru RP 121.50, under project NH 24-3(23)109, the existing roadway was reconstructed with varied top widths of 30.0' to 56.0'. As-builts show the existing PMS section consisting of 0.3' of Grade D Plant Mix Surfacing and 0.25' of Crushed Top Surfacing Type "A" Grade 2.

e. PvMS Data:
The indices and condition levels for the 2009 survey year are given in the following table:

PVMS INDICES			
Reference Posts	Ride Condition	Rut Condition	Recommendation
100.54 Thru 109.05	77.7 - Fair	61.9 - Poor	C_AC Crack Seal & Cover
109.05 Thru 116.83	82.2 - Good	59.7 - Poor	C_AC Crack Seal & Cover

f. There are eight existing structures that fall within the limits of this project; they are summarized in the table below:

Structure Number	Feature Crossed	Width **(m)**	Length **(m)**	Year Built	Structure Status
P00024102+05011	25M SW Simms	56.69	7.32	1949	Not Deficient
P00024104+02001	23M SW Simms	6.4	8.54	1949	Not Deficient
P00024107+08001	2KM W Bowmans Corners	2.59	9.60	1949	Not Deficient
P00024109+07001	2KM E Bowmans Corners	2.44	11.50	1986	Not Deficient
P00024111+02361	16 M SW Simms	12.80	11.70	1986	Not Deficient
P00024113+09001	23KM SW Simms	4.23	13.80	1984	Not Deficient
P00024114+05001	21KM SW Simms	2.44	11.40	1986	Not Deficient
P00024116+00001	18KM SW Simms	3.05	11.15	1986	Not Deficient

Traffic Data

A traffic analysis was not requested for this project due to its limited scope.

Accident Analysis

An accident analysis was not requested for this project due to its limited scope.

Major Design Features

a. **Design Speed.** Design speed is not an applicable design criterion since this project is a seal and cover.

b. **Typical Sections and Surfacing**.
The project is designed to seal and cover the total roadway width which varies between 20.0' to 56.0'. The majority of the finished roadway is 30 feet.
Cores will be taken in all patched and milled areas, particularly at the crest verticals. Mill and fill will be considered in some areas where there is rutting. Surfacing will decide if this is necessary after receiving core information.
c. **Geotechnical Considerations**. No geotechnical issues will be addressed with this seal and cover project.
d. **Hydraulics**. No hydraulics issues will be addressed with this project.
e. **Bridges.** All existing structures have paved surfaces and will be seal and covered.
f. **Traffic.** New pavement markings will be required. Signing will not be replaced.
g. **Pedestrian/Bicycle/ADA**. An eight inch rumble strip will be placed on the fog line to alert errant drivers, without reducing usable bicycle and pedestrian width.
h. **Miscellaneous Features**. Guardrail is being upgraded on project HSIP 24-3(31)97, UPN 6064000, SF 069 – Guardrail – W. of Jct. S-434.
Maintenance will provide an estimate of the cracks on the subject project. Signing and delineators appear to be in good shape.
i. **Context Sensitive Design Issues**. There are no Context Sensitive Design issues on this project.

Other Projects

Seal and cover will also be placed on another project, NH 24-3(35)100, that is located approximately 0.8 miles west of the intersection with Secondary Route 434 at RP 99.534 for 75 feet.
Updates on guardrail for this project will be made on another project HSIP 24-3(31)97, UPN 6064000, SF 069 – Guardrail – W. of Jct. S-434.

Design Exceptions

No design exceptions are anticipated for this project.

Right-of-Way

There is no right-of-way involvement for this project.

Access Control

Access control will not be required for this project

Utilities/Railroads

There is no railroad or utility involvement with this project.

Intelligent Transportation Systems (ITS) Features

There are no known ITS solutions that should be designed with this seal and cover project. There are no WIM or RWIS sites located on the proposed project.

Survey

Estimated plan quantities will be determined from as-builts and field inventory.

Public Involvement

Due to the limited scope of the project, a level "A" public involvement plan should suffice. This will include a news release to the local media.

Environmental Considerations

No apparent significant environmental impacts or issues were identified. We believe the project meets the criteria for the Programmatic Agreement as a Nationwide Categorical Exclusion. The appropriate environmental documentation will be provided in order to comply with applicable regulations. No other permits will be needed.

Traffic Control

Traffic will be maintained throughout the project during construction with the appropriate signing, flagging, etc. All signing will be in accordance with the Manual on Uniform Traffic Control Devices. Access to residences within the project will be maintained to the maximum extent possible.

Project Management

MDT's Helena Road Design Great Falls Area will be responsible for the road design plans. The Project Design Manager will be Dustin Rouse.

Preliminary Cost Estimate

The estimated cost that has been programmed to construct this project is $1,324,407.

	Estimated cost	Inflation (INF) (from PPMS)	TOTAL costs w/INF + IDC (from PPMS)
Road Work	498,046		
Traffic Control	70,000		
Subtotal	568,046		
Mobilization (10%)	56,805		
Subtotal	624,851		
Contingencies (12%)	74,982		
Total CN	**$699,833**	**$ 140,388**	**$962,376**
CE (10%)	**$69,983**	**$14,039**	**$106,931**
TOTAL CN+CE	**$769,816**	**$ 154,427**	**$ 1,069,307**

Estimated cost per mile for this project is 42,934.00.

Ready Date

The target letting date for this project is March 2013. OPX2 shows a ready date August 1, 2010. Planned finish date is July 20, 2010.

Site Map

The project site map is attached.

FEDERAL AID PROJECT NH 24–3(37)101
CRACK SEALING, SEAL & COVER
SIMMS – JCT S–434
LEWIS AND CLARK COUNTY

LENGTH 16.5 miles

NO SCALE