



Montana Department of Transportation

2701 Prospect Avenue  
PO Box 201001  
Helena MT 59620-1001

Jim Lynch, Director  
Brian Schweitzer, Governor

August 8, 2005

Carl James  
Federal Highway Administration (FHWA)  
2880 Skyway Drive  
Helena MT 59602

MASTER  
FILE  
COPY

Subject: Statewide Pavement Preservation Projects Concurrence  
**IM 15-8(61)380**  
**Sunburst - South**  
**CN 5760000**

The Environmental Services Bureau of the Montana Department of Transportation has reviewed the Preliminary Field Review/Scope of Work Report and the Environmental Checklist for Pavement Preservation Projects. We have determined that the Statewide PCE for these types of projects would cover this project.

The following special provision will be included in this project:

- Protection of Wetland Areas and Other Drainages

I have attached the Preliminary Field Review/Scope of Work Report, location map, Environmental Checklist for Pavement Preservation Projects, and the special provision listed above.

If you have any questions concerning this letter, please contact me at 444-0456.

Thomas L. Hansen, P.E.  
Engineering Section Supervisor  
Environmental Services Bureau

Attachments:

TLH:tgg: S:\PROJECTS\GREAT-FALLS\5760000\5760ENCSPFW01.DOC

copies: Michael P. Johnson – District Administrator-Great Falls  
Loran Frazier, P.E. – Chief Engineer  
Paul Ferry, P.E. – Highway Engineer  
Jean A. Riley, P.E. – Environmental Services  
Mark Wissinger, P.E. – Construction  
Suzy Althof – Contract Plans  
Dave Jensen – Fiscal Planning  
✓ Environmental Quality Council  
File

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LEGISLATIVE ENVIRONMENTAL  
POLICY OFFICE

### 1. PROTECTION OF WETLAND AREAS AND OTHER DRAINAGES

Impacts to any and all wetland areas and other drainages, including spring drainages, located adjacent to the project are not anticipated in association with this project. MDT has NOT acquired any water quality permits, including a Clean Water Act Section 404 permit, a Stream Protection Authorization 124 permit, or a 318 Authorization permit. Therefore, impacts to any and all wetland areas and other drainages, including spring drainages, located adjacent to the project are not permitted. Avoid all equipment traffic, fill material, staging activities and other disturbances to the wetland areas and other drainages. If situations are observed during construction that may potentially impact water quality, including wetland areas, utilize Best Management Practices (BMP) and/or Temporary Erosion Control measures as necessary to protect the resource. Refer to Section 208 of the MDT Detailed Drawings (2004 metric edition) for Erosion and Sediment Control Best Management Practices.

Install Temporary Erosion Control measures as deemed necessary by the Engineer. Payment to be determined using the Erosion and Sediment Control rate schedule and paid under Miscellaneous Work.

If complete avoidance of all impacts to these areas is not possible, contact the District Biologist at 444-9438 or the Construction Permit Coordinator at 444-7648, so that the proper permits can be secured prior to working in these areas. Any impacts to these areas and associated consequences, without the proper permitting, are the responsibility of the Contractor.

(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.: IM 15-8(61)380 ID: UPN 5760000 Project Name: Sunburst - South

Reference Post (Station) RP 380.25+/- to Reference Post (Station) RP 389.47+/-

Applicants Name: Montana Department of Transportation Address: PO Box 201001, 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)

Table with 2 main columns: Impact Questions and [Y/N] There are Potential Impacts; or Item Requires Documentation, Evaluation, Mitigation Measures, and/or (a) Permit(s). Includes rows 1 through 7 with checkboxes and handwritten notes like 'None Anticipated PS-815'.

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

Checklist prepared by: Jere Stoner Area Engineer July 8, 2005 Applicant Title Date

Approved by: [Signature] ENVIRONMENTAL ENGINEERING SECTION SUPERVISOR 8/10/05 Environmental Services Title Date

(when items 1, 2, 3, 3a, 4, 4a, 4b, 5, 6, 6a, or 7 are checked "Yes")

- A. The applicant shall complete the checklist indicating a "Yes" or "No" for each item, except number 8 which may require a narrative response.
- B. When a "Yes" is indicated on any number of items 1 through 7, MDT must explain why and provide the appropriate documentation, evaluation, permit, and/or mitigation measures required to satisfy environmental concerns for the project. Use attachments if necessary.
- C. If the applicant checks "Yes" for any one item, the checklist and MDT's mitigation proposal, documentation, evaluation and/or permit shall be submitted to MDT Environmental Services. Contact Number 444-7228.
- D. When the applicant checks a "Yes" item, MDT cannot be authorized to proceed with the proposed work until Environmental Services reviews the information and signs the checklist.
- E. MDT will obtain all necessary permits or authorizations from other entities with jurisdiction prior to beginning the Pavement Preservation Activity.

**Montana's Wild and/or Scenic Rivers system as published by the U.S. DEPARTMENT OF AGRICULTURE (USDA), or the U.S. DEPARTMENT OF THE INTERIOR (USDoI)**

- 1 Middle Fork of the Flathead River (headwaters to South Fork of the Flathead River confluence)
- 2 North Fork of the Flathead River (Canadian Border to Middle Fork of the Flathead River confluence)
- 3 South Fork of the Flathead River (headwaters to Hungry Horse Reservoir)
- 4 Missouri River (Fort Benton to Charles M. Russell National Wildlife Refuge)



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: July 8, 2005

Subject: IM 15-8(61)380  
Sunburst - South  
UPN 5760000  
Work Type 183: Resurfacing- Seal & Cover

We request that you approve the **Preliminary Field Review/Scope of Work Report** for the subject project.

Approved *Paul R. Ferry* Date 7/11/05  
for Paul R. Ferry, P.E.  
Highways Engineer

We are requesting comments from those on the distribution list. We will assume their concurrences if no comments are received within **two weeks** of the above approval date.

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

DMK:JJS:TD:server:5760000RDPFRSOW.DOC

Distribution (all w/ attachment)

Jim Walther, Engineering	Jere Stoner, Road Design
Ivan Ulberg, Traffic & Safety	Bret Boundy, Geotechnical
Mark Goodman, Hydraulics	Dave Jensen, Fiscal Programming
Pierre Jomini, Safety Management	Walt Scott, Utilities
Bob Seliskar, FHWA(HOP-MT)	Sue Rowell, EISS
Greg Pizzini, R/W - Access Management	Drew Livesay, M.C.S.
Alice Flesch, Acting ADA Coordinator	Becky Duke, Traffic Data & Collection
Pamela Langve-Davis, Bicycle & Peds.	Highways File

Toole County Commissioners  
226 1<sup>st</sup> Street South  
Shelby, MT 59474-1920



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

**Preliminary Field Review/Scope of Work Report**

**IM 15-8(61)380  
Sunburst - South  
UPN 5760000**

**I. INTRODUCTION**

This report was developed from information taken from the preliminary field review conducted on May 2<sup>nd</sup>, 2005 with the following personnel in attendance:

Steve Prinzing	D.E.S.E.	Great Falls
Christie McOmber	District Projects Engineer, P.M.	Great Falls
Jeania Cereck	Road Design Supervisor	Great Falls
Teresa Davidson	Road Design	Great Falls
Jere Stoner	Road Design, Area Engineer	Helena
James H. Cornell Jr.	Traffic & Safety	Helena
Jon Watson	Pavement Analysis	Helena
Gerry Brown	Construction Oversight	Helena

**II. PROPOSED SCOPE OF WORK**

- A. The proposed project has been nominated as a preventative maintenance seal and cover. The plans for the proposed project will utilize reference posts.
- B. The existing horizontal and vertical alignments will be used throughout the project. No work on the existing guardrail or end treatments is planned.
- C. Traffic has recommended that the delineation be upgraded along with the pavement markings.
- D. The project is being designed in the Great Falls Design unit and has a ready date of July 2005.

**III. PROJECT LOCATION AND LIMITS**

- A. The project is located in Toole County, between the Kevin Interchange and the Sunburst Interchange. It begins approximately one mile north of the Kevin Interchange on Interstate 15 at RP 380.25 and proceeds 9.2 miles northwesterly to RP 389.47 just south of the Sunburst Interchange. Note that the ending reference post was changed at the field review to match the begin point of IM 15-8(55)389, Sunburst – Sweetgrass [UPN 2802], which was a mill and fill overlay project.
- B. The project includes the northbound and southbound lanes and the ramps and cross road at the Swayze Interchange. The cross road will be chip sealed from R/W fence to R/W fence excluding the bridge deck.

#### IV. PHYSICAL CHARACTERISTICS

The P.T.W. traverses level terrain and is classified as a National Highway System Interstate Route. The land adjacent to the project primarily consists of farm and rangeland.

##### A. Project History

1. This project, from RP 380.3 to RP 389.5, was originally constructed in 1969 under I 15-8(27) with 0.35' of plant mix surfacing and 1.0' of crushed base course.
2. In 1988, this section of roadway was overlaid with 0.25' of plant mix surfacing under project IR 15-8(44)380.
3. In 1999, this section of roadway was milled 0.10' and overlaid with 0.15' of plant mix surfacing (Grade D) under project IM 15-8(51)380.

##### B. PVMS Index Numbers & Recommended Treatment for 2005

The following table shows the latest information (2004 survey year) from the Pavement Analysis Section's PvMS Pavement Conditions and Recommended Treatments data in Oracle.

PVMS INDICES		
RP 380.3 to RP 389.4	Left Lane	Right Lane
Ride	81.8 (Good)	81.4 (Good)
Rut	88.7 (Good)	89.9 (Good)
Alligator Cracking	100.0 (Good)	100.0 (Good)
Miscellaneous Cracking	98.5 (Good)	98.5 (Good)
Recommended Treatment (Construction)	AC Crack Seal & Cover	AC Crack Seal & Cover
RP 389.4 to RP 398.2 *	Left Lane	Right Lane
Ride	83.5 (Good)	83.3 (Good)
Rut	78.5 (Good)	87.4 (Good)
Alligator Cracking	100.0 (Good)	99.6 (Good)
Miscellaneous Cracking	93.6 (Good)	92.0 (Good)
Recommended Treatment (Construction)	AC Crack Seal	AC Crack Seal

\* This project ends at RP 389.5.

##### C. Bridges

There are three bridges located within the limits of the project. All of the bridges are overpass structures; however, only one location provides access to the interstate. The bridge at the Swayze Interchange serves as a crossing for local route X51028. The MDT Bridge Log lists the bridge as having a length

of 224 ft., a roadway width of 31.6 ft., and a total width of 38.0 feet.

## V. TRAFFIC DATA

The AADT according to the TIS Road Log for this section of interstate is 3160.

## VI. ACCIDENT ANALYSIS

An accident analysis was not requested due to the limited scope of the project.

## VII. MAJOR DESIGN FEATURES

### A. Design Speed

Design speed is not an applicable design criterion since this project is a preventative maintenance seal & cover.

### B. Horizontal Alignment & Vertical Alignment

The existing horizontal and vertical alignments are adequate for a preventative maintenance seal & cover. No changes are proposed.

### C. Surfacing Design

Due to the nature of this project, no surfacing design was requested.

### D. Typical Sections

1. The typical section for this project will be a 38.0' wide finished driving surface with 12' driving lanes, a 10.0' outside shoulder and a 4.0' inside shoulder for both northbound and southbound roadways.
2. The ramps for the Swayze Interchange are 24.0' wide.
3. The crossroad at the Swayze Interchange is 28' outside of the guardrail areas.

### E. Geotechnical Considerations

Due to the nature of this project, no geotechnical issues will be addressed.

### F. Grading

There will be no grading with this project

### G. Hydraulics

Due to the nature of this project, hydraulics considerations will not be addressed.

### H. Bridge

No Bridge involvement is anticipated. No work on the bridge rail or bridge approach rail is planned.

**I. Traffic and Safety**

New pavement markings will be required. It was determined at the field review that the delineation would be upgraded with this project. No signing or rumble strips are proposed on this project.

**VIII. DESIGN EXCEPTIONS**

The design exception process does not apply to pavement preservation projects.

**IX. RIGHT-OF-WAY**

No new right-of-way will be required on the project.

**X. UTILITIES/RAILROADS**

- A. There will be no utility involvement.
- B. There are no railroads in the vicinity of the project.

**XI. ENVIRONMENTAL CONSIDERATIONS**

No apparent significant environmental issues have been identified. It is anticipated that the project meets the criteria for the Programmatic Agreement as a Categorical Exclusion. An environmental checklist is being supplied with the Preliminary Field Review/Scope of Work Report.

**XII. 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.

**XIII. TRAFFIC CONTROL**

Traffic will be maintained throughout project construction through the use of appropriate signing, flagging, lane closures, etc. Local access will be maintained to the maximum extent possible. The MUTCD will be utilized to guide the application of all traffic control.

**XIV. READY DATE**

The current ready date for the project is July 1, 2005.

**XV. COST ESTIMATE**

Roadwork	\$ 370,000
Subtotal	\$ 370,000
Mobilization (10%)	\$ 37,000

Paul R. Ferry, P.E.

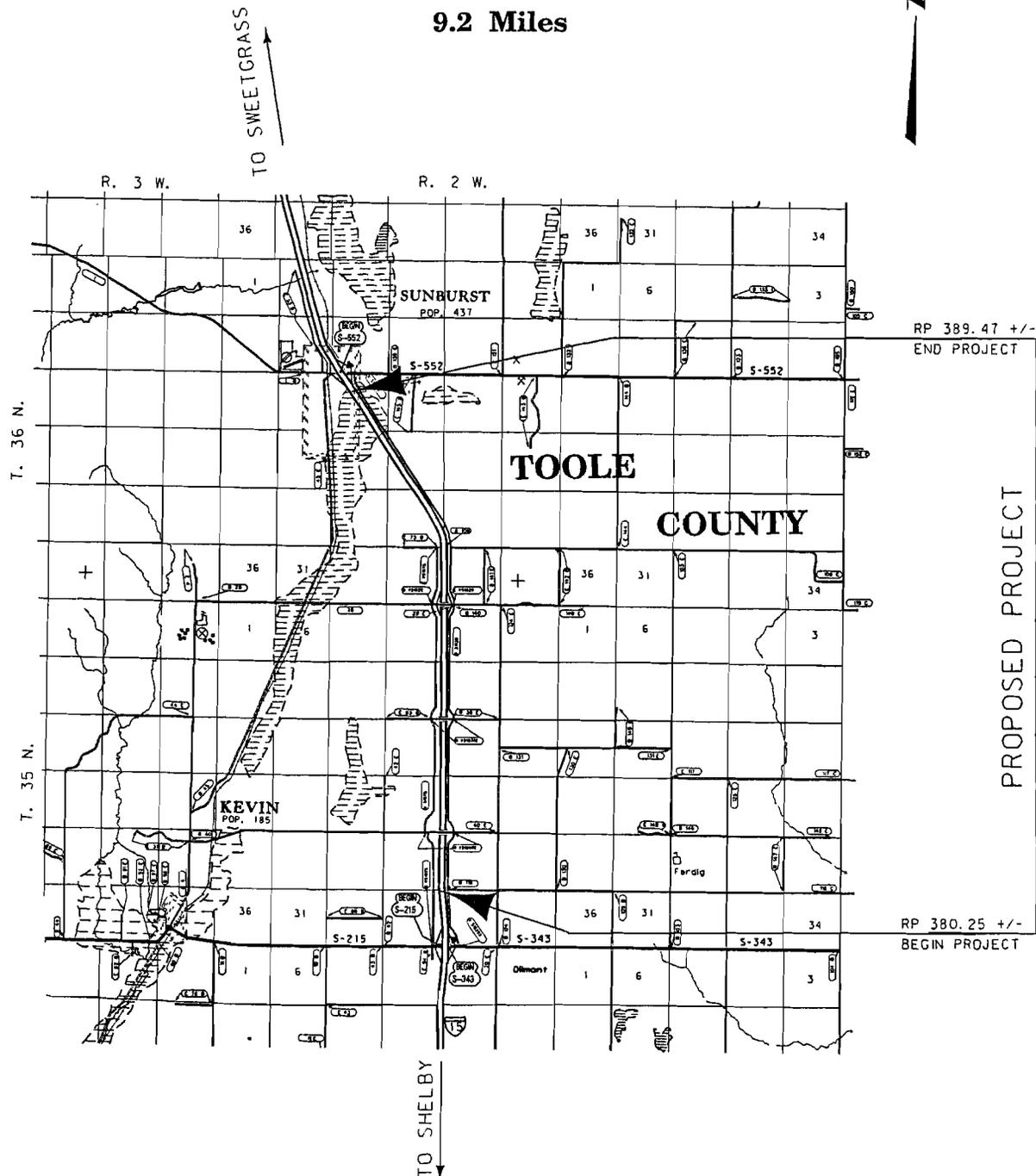
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Subtotal	\$ 407,000
Traffic Control (7%)	\$ 28,490
Contingency (5%)	\$ 20,350
Subtotal	\$ 455,840
Inflation (3% per year for 1 year)	\$ 13,680
<b>Construction Total</b>	<b>\$ 469,520</b>
Construction Engineering (10%)	\$ 46,950
<b>Total Project Estimate</b>	<b>\$ 516,470</b>

**FEDERAL AID PROJECT NO. IM 15-8(61)380**  
**WORK TYPE 183 RESURFACING - SEAL & COVER**  
**SUNBURST - SOUTH**  
**TOOLE COUNTY**

UPN 5760000  
 9.2 Miles



PROPOSED PROJECT