



September 18, 2006

**RECEIVED**

SEP 20 2006

Carl James  
Federal Highway Administration (FHWA)  
585 Shepard Way  
Helena, MT 59601-9785

LEGISLATIVE ENVIRONMENTAL  
POLICY OFFICE

**Subject: Statewide Pavement Preservation Project  
GREAT FALLS URBAN SYSTEM  
STPU 5299(72)  
CN6124000**

Dear Carl James:

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 have determined 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 Checklist.

If you have any questions or concerns, please contact Heidy Bruner at 444-7203. She will be pleased to assist you.

Sincerely,

Jake Goettle, PE  
Acting Engineering Section Supervisor  
Environmental Services Bureau

encl.

- cc (w/o encl.): Mick Johnson MDT, Great Falls District Administrator
- Steve Prinzing, PE MDT, Great Falls District Engineering Services Supervisor
- Jean A. Riley, PE MDT, Environmental Services Bureau Chief
- Paul Ferry, PE MDT, Highway Engineer
- Mark Wissinger, PE MDT, Construction Engineer
- Suzy Price MDT, Contract Plans Bureau Chief
- Dave Jensen MDT, MDT Fiscal Programming Section Supervisor
- Bob Seliskar, PE FHWA, Operations Engineer
- Stacy Hill, PE MDT, Great Falls Environmental
- Heidy Bruner MDT, Environmental Services

- cc (w/encl.): Montana Legislative Branch Environmental Quality Council (EQC)
- Cascade County Office (325 Second Avenue North #111, Great Falls MT 59401)
- Great Falls City Office (PO Box 5021, Great Falls, MT 59403)
- File

TLH.hsb \\Astro\envr\PROJECTS\GREAT-FALLS\6000-6999\6124\6124ENCEDCSP1\_PAVE PRES\_GTF DOC



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

Memorandum

To: Jean A. Riley, P.E.  
Chief - Environmental Services Bureau

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

Date: *Aug. 30, 2006*

Subject: STPU 5299(72)  
Great Falls Urban System  
UPN 6124000  
Work Type 181 Resurfacing: Seal & Cover

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SEP 01 2006  
**ENVIRONMENTAL**

Attached is the Preliminary Field Review/Scope of Work Report for the subject project. The project meets the criteria for the Statewide Programmatic Categorical Exclusion for pavement preservation projects and the environmental checklist is attached.

Please send the notification for the environmental documentation on this project to the FHWA. If you need additional information, contact Christie McOmber at 454-5900.

Attachment

cc:  
Christie McOmber  
Highways File

*NO  
Comments  
Good to  
Go*

*pc*  
*Scoping  
value*  
*APR 9/1*  
*RS. 9/1*  
*Jim 9/1*  
*DGC 9/1*  
*9/1*  
*X*  
*X*  
*X*  
*X*  
*X*

(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.: STPU 5299(72) ID: UPN 6124000 Project Name: Great Falls Urban System

Reference Post (Station) Various City Streets to Reference Post (Station) Various City Streets

Applicants Name: Montana Department of Transportation Address: PO Box 1359, Great Falls, MT 59403-1359

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

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). Sub-headers include Yes, No, and Comment or List Documentation, Evaluation, Mitigation Measure, and/or (a) Permit(s) Required for Items 1 through 7. (Use attachments if necessary). Rows 1-7 contain specific questions about river impacts, species, water quality, wetlands, hazardous waste, Indian Reservations, and air sheds.

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

Checklist prepared by: Christie McOmber Applicant Title District Project Engineer Date

Approved by: [Signature] Title Bureau Chief Date SEP 19 2006

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 (USDol)**

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: Christie W. McOmber, P.E. *CWM*  
Great Falls District Project Manager

Date: August 29, 2006

Subject: STPU 5299(72)  
Great Falls Urban System  
UPN 6124 000  
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 *Aug 30, 2006*  
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 approval date.

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

Distribution (all w/ attachment)

Jim Walther, Engineering	Chris Jain, Road Design
Ivan Ulberg, Traffic & Safety	Bret Boundy, Geotechnical
Mark Goodman, Hydraulics	Dave Jensen, Fiscal Programming
Pierre Jomini, Safety Management	Walt Scott, Utilities
Sue Rowell, E.I.S.S.	Alice Flesch, Acting ADA Coordinator
Greg Pizzini, R/W - Access Management	Pamela Langve-Davis, Bicycle & Peds.
Drew Livesay, M.C.S.	Becky Duke, Traffic Data & Collections
Dave Dobbs, City of Great Falls, PO Box 5021, Great Falls, MT 59403	
Highways File	

**Preliminary Field Review/Scope of Work Report**  
**STPU 5299(72)**  
**Great Falls Urban System**  
**UPN 6124 000**

**I. Introduction:**

This report was developed from information taken from the preliminary field review conducted on May 1, 2006 with the following personnel in attendance:

Steve Prinzing	Engineering Services Engineer	Great Falls
Christie McOmber	District Project Manager	Great Falls
Jeania Cereck	District Design Supervisor	Great Falls
Laci Bogden	District Design	Great Falls
Gerry Brown	Construction Oversight	Lewistown
Steve McEvoy	Surfacing Design	Helena
Jason Handl	Project Engineer	City of Great Falls
Jim Tumbow	Street Superintendent	City of Great Falls

**II. Proposed Scope of Work:**

This project is nominated as a preventative maintenance crackseal with a seal and cover. The intent of is to protect and seal the roadways to preserve the function of the system and retard future deterioration.

- A. The existing horizontal and vertical alignment will be used throughout the project. No work is planned on the existing guardrail, end treatments, or signing.
- B. The project was nominated at \$370,011 utilizing Urban STPU funds. The estimate includes mobilization, traffic control, construction engineering, and contingency. This estimate also takes into consideration an inflation rate of 3% for 1 year.
- C. The project is being designed in the Great Falls Design Unit and has a ready date of July 2006; however, due to fiscal restraints the proposed ready date for this project will be **December 2006**.

**III. Project Locations and Limits:**

- A. The project includes 9 locations in Cascade County with the functional classification of Urban. Eight of the locations are completely within the City of Great Falls and will be designed to the geometric design criteria of Urban Minor Arterial. The one exception, 14<sup>th</sup> Street Southwest, enters the Great Falls city limits at RP 1.141 and meets the geometric design criteria of an Urban Collector Street.

Area	Route	Description	Beg RP	End RP
1	U5217	25 <sup>th</sup> St S – Central Ave to 10 <sup>th</sup> Ave S	0.852	1.597
2	U5219	38 <sup>th</sup> St N – 7 <sup>th</sup> Ave N to NE Bypass	1.353	1.880
3	U5219	38 <sup>th</sup> St S – 10 <sup>th</sup> Ave S to 4 <sup>th</sup> Ave N	0.000	1.054
4	U5225	14 <sup>th</sup> St SW – Park Garden Road to 13 <sup>th</sup> Ave SW	0.480	1.333
5	U5226	26 <sup>th</sup> St S – City Limits to 10 <sup>th</sup> Ave S	0.418	0.995
6	U5226	26 <sup>th</sup> St S – 10 <sup>th</sup> Ave S to Central Ave	1.005	1.751
7	U5234	1 <sup>st</sup> Ave S – Park Dr to 10 <sup>th</sup> St S	0.000	0.729
8	U5236	2 <sup>nd</sup> Ave S – 7 <sup>th</sup> St S to 2 <sup>nd</sup> St S	0.607	1.043
9	U5238	9 <sup>th</sup> St NW – Central Ave W to NW Bypass	0.000	0.540

## B. As-Built:

Area	Project ID	From RP	To RP	Year Built
4	STPU 315-5(12)1 F	0.796	1.333	1995
As-Built information is unavailable for the remaining areas.				

## C. Adjacent projects:

ID Number	Project Name	Project Type	From RP	To RP
IM 315-5(13)0	Great Falls Urban	Seal & Cover	0.0	1.3

## IV. Physical Characteristics:

All areas are located within urban areas with generally level terrain.

## A. Project History:

1. Area 4 was reconstructed from RP 0.797 to RP 1.333 in 1995 under STPU 315-5(12)1 F.
  - a. The reconstructed surface consisted of 0.35' of plant mix, 0.15' of crushed top surfacing, and 1.80' of crushed base course.

- b. The total roadway width varies from 13.0' to 26.5'. There are two 12.0' driving lanes and the outside shoulders vary from 1.0' to 8.0'. A portion of Area 4 has medians that vary from 2.0' to 14.0' with inside shoulders of 1.0'. There are numerous turning lanes between RP 0.797 and RP 1.188.
2. The RP 0.480 to RP 0.797 of Area 4 and all other Areas were constructed by the City and the as-built data is unavailable. The current physical description of these roadways is below under Typical Sections.

**B. PVMS Data:**

The PvMS Pavement Conditions and Recommended Treatments Reports for these Areas are unavailable.

**C. Horizontal & Vertical Alignment:**

The existing vertical and horizontal alignments for these Areas is unavailable.

1. It appears as though Area 4's vertical alignment is well below the Geometric Design Criteria's maximum grade of 9% for Urban Collector Streets with level terrain.
2. It is anticipated that the remaining Areas' vertical alignment will meet the Geometric Design Criteria's maximum grade of 6% for Urban Minor Arterials with level terrain.
3. It is anticipated that the horizontal alignment on all Areas will meet the minimum qualifications of their respective Geometric Design Criteria.

**D. Bridges:**

There are no bridges within any of the Areas of this seal and cover project.

**V. Traffic Data:**

Traffic Data is not required for seal and cover projects.

**VI. Accident Analysis:**

Accident Data is not required for seal and cover projects.

**VII. Major Design Features:**

**A. Design Speed:**

1. Using the level design control, the Geometric Design Criteria for Urban Collector Streets section of the Road Design Manual qualifies Area 4 for a design speed of 30 mph.
2. Using the level design control, the Geometric Design Criteria for Urban Minor Arterials section of the Road Design Manual qualifies all other Areas for a design speed of 35 mph.

3. The posted speed limits:
  - a. Area 1: 30 mph
  - b. Area 2: 35 mph
  - c. Area 4: 30 to 35 mph
  - d. Area 5: 35 to 40 mph
  - e. Area 6: 25 to 30 mph
  - f. Areas 3, 7, 8, and 9: 25 mph

**B. Horizontal Alignment:**

The existing horizontal alignment is adequate for a preventative maintenance treatment and no changes are proposed with this project.

**C. Vertical Alignment:**

The existing vertical alignment is adequate for a preventative maintenance treatment and no changes are proposed with this project.

**D. Typical Sections:**

All Areas of this project will receive cover material Type II.

1. Area 1: Northbound one-way. The total roadway width is approximately 34.0' with two 12.0' traveling lanes. The entire length of the roadway has curb and gutter except between RP 0.865 and RP 0.916 which has curb and gutter only on the east side.
2. Area 2: The total roadway width ranges from 32.0' to 40.0' with two 12.0' traveling lanes. The south 0.152 miles of the roadway has curb and gutter.
3. Area 3: The total roadway width ranges from 34.0' to 44.5' with two 12.0' traveling lanes. The entire length of roadway has curb and gutter. Only the driving lanes will be included with this project. The 2<sup>nd</sup> Avenue North intersection will not be included with this project.
4. Area 4: The total roadway width ranges from 26.0' to 63.0' with two 12.0' traveling lanes and numerous turning lanes. The south 0.094 miles of the roadway does not have curb and gutter.
5. Area 5: The total roadway width is approximately 51.0' which transitions from three to four 12.0' traveling lanes. The entire length of roadway has curb and gutter.
6. Area 6: Southbound one-way. The total roadway width is approximately 34.0' with two 12.0' traveling lanes. The entire length of roadway has curb and gutter.
7. Area 7: Westbound one-way. The total roadway width ranges from 40.0' to 50.0' with three 12.0' traveling lanes. The entire length of roadway has curb and gutter. The 5<sup>th</sup> and 9<sup>th</sup> Street intersections will not be included with this project.

August 29, 2006 **Error! Reference source not found.**

8. Area 8: Eastbound one-way. The total roadway width ranges from 27.0' to 50.0' with three 12.0' traveling lanes. The entire length of roadway has curb and gutter. The 5<sup>th</sup> Street intersection will not be included with this project.
9. Area 9: The total roadway width ranges from 27.0' to 36.0' with two 12.0' traveling lanes. There is intermittent curb and gutter.

**E. Surfacing Design:**

No surfacing design was requested for this seal and cover.

**F. Geotechnical Consideration:**

No geotechnical issues will be addressed with this seal and cover.

**G. Hydraulics:**

No hydraulics issues will be addressed with this seal and cover.

**H. Bridge:**

There are no bridges within any of the Areas.

**I. Traffic and Safety:**

1. New pavement markings will be included with this project. The north 0.145 miles of Area 4 should be striped as a no passing zone as it currently has a yellow skip for the centerline stripe.
2. There are two school zones: Area 3 approximately RP 0.903 to RP 1.016 and Area 6 approximately RP 1.154 to RP 1.303.
3. Special Provisions will be prepared for traffic control during construction: Area 5 to address emergency access to the hospital and Area 7 to address signal operation at the 9<sup>th</sup> Street intersection.
4. This project also includes the removal of all thermoplastic pavement markings within the project limits.
5. No guardrail improvements are proposed on this project. Area 4 has guardrail with blunt ends which will not be addressed with this project.
6. No signing or rumble strips improvements are proposed on this project.

**VIII. Miscellaneous:**

The City will perform the maintenance necessary to prepare these roadways for a cracksealing and seal and cover. These will include but are not limited to:

Dig outs in Area 2 between 7<sup>th</sup> and 9<sup>th</sup> Avenues North.

Removal and repair of concrete patch in Area 9 between Poulsen's and Howard's Pizza.

**IX. Other Projects:**

1. During the 2007 construction season, project IM 315-5(13)0 will overlay I-315 and the ramps connecting to 14th Street Southwest.



2. During the 2007 construction season, project STPU 5236(1) will reconstruction 2nd Avenue South between 7th Street and 9th Street.
3. Project NH 60-2(72)92 will reconstruct and widen 10th Avenue South between 20th Street and 26th Street, this project is currently slated for letting in 2009.

**X. Design Exception:**

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

**XI. Right-Of-Way:**

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

**XII. Access Control:**

Area 4 is currently under limited access control from RP 0.882 to RP 1.188. Access Control will not be implemented on this seal and cover project.

**XIII. Utilities/Railroads:**

No utility involvement is anticipated for this seal and cover project.

The railroad intersects Area 2 at RP 1.540 and Area 4 at RP 0.529. There is no other railroad involvement anticipated with this seal and cover project.

**XIV. Survey:**

A simple survey was conducted to provide approximate widths and lengths of the Areas in lieu of as-built information. Otherwise, no survey will be required for this seal and cover project.

**XV. 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.

**XVI. Environmental Considerations:**

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

**XVII. Traffic Control:**

Traffic will be maintained throughout the project during the construction with the appropriate signing, flagging, etc. All signing will be in accordance with the Manual on Uniform Traffic Control Devices.

**XVIII. Preliminary Cost Estimate**

The preliminary estimate overruns the available Urban STPU funds by approximately \$140,000. This issue will be addressed with the City of Great Falls to establish an equitable solution.

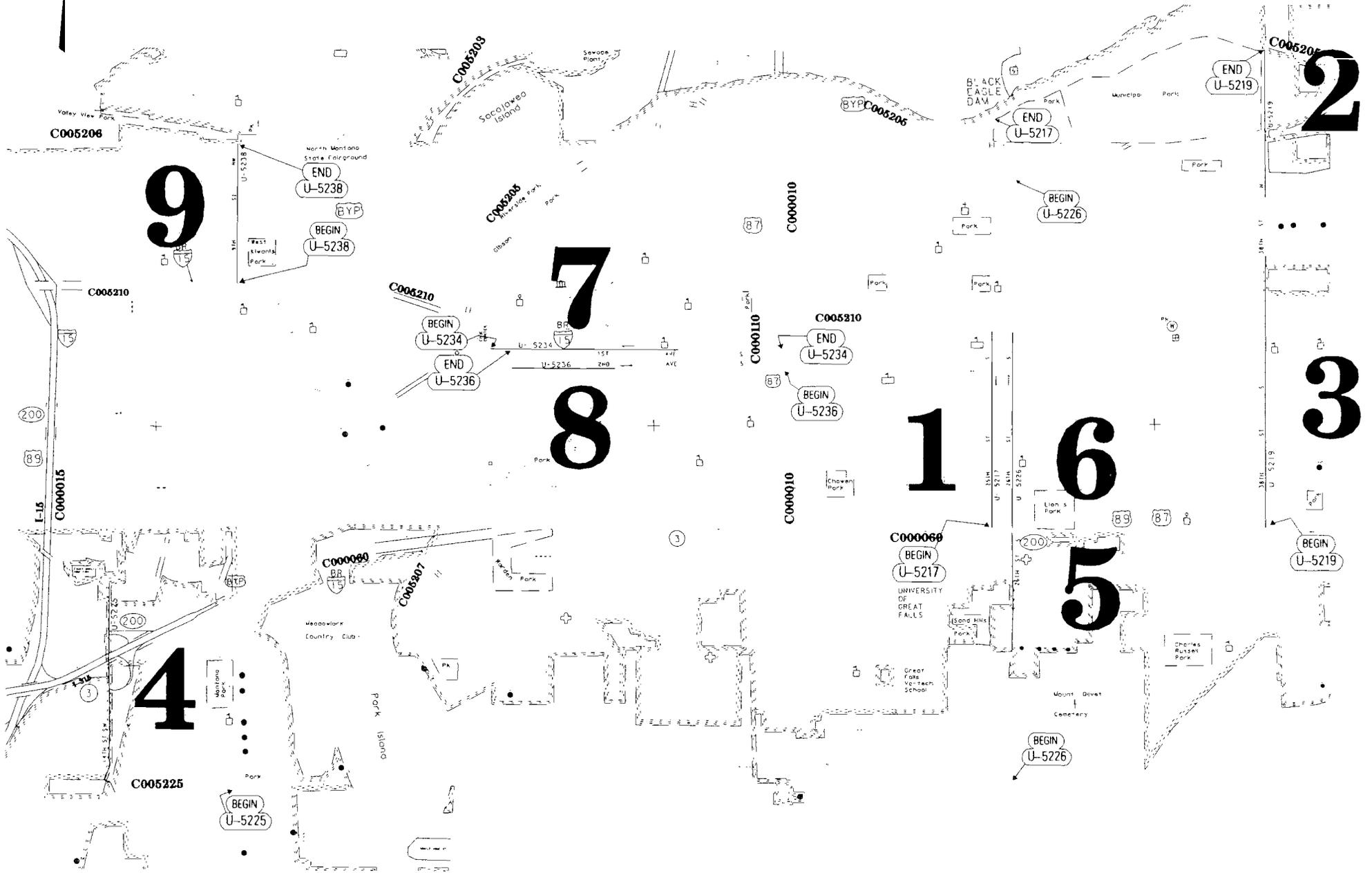
Roadwork		\$	344,000
Traffic Control	LS	\$	60,000
<b>Subtotal</b>		<b>\$</b>	<b>404,000</b>
Mobilization	8%	\$	32,000
<b>Subtotal</b>		<b>\$</b>	<b>436,000</b>
Contingencies	5%	\$	22,000
<b>Subtotal</b>		<b>\$</b>	<b>458,000</b>
Inflation	3% for 1 year	\$	14,000
<b>Total Construction</b>		<b>\$</b>	<b>472,000</b>
Construction Engineering	8%	\$	38,000
<b>Project Total</b>		<b>\$</b>	<b>510,000</b>

The follow items were considered in the roadwork preliminary cost estimate: cover, seal, cracksealing, paint, and thermoplastic removal.

**XIX. Ready Date:**

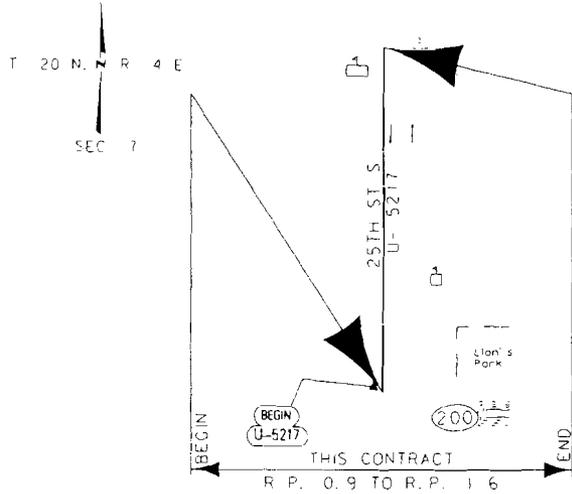
The project is being designed in the Great Falls Design Unit and has a ready date of July 2006; however, due to fiscal restraints the proposed ready date for this project will be **December 2006**.

**FEDERAL AID PROJECT STPU 5299(72)**  
**RESURFACING - CRACKSEAL /SEAL AND COVER**  
**GREAT FALLS**  
**CASCADE COUNTY**



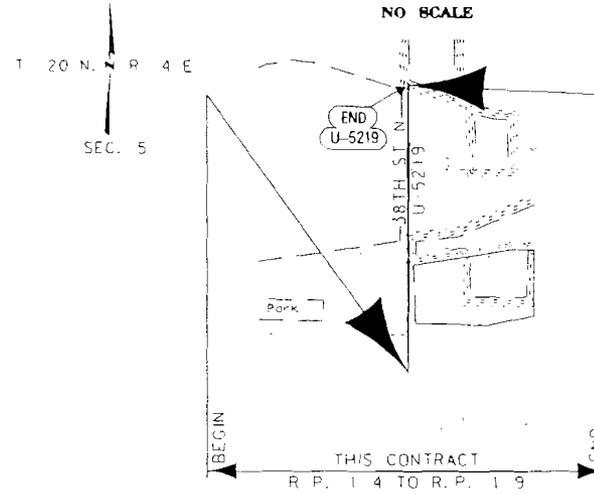
**AREA 1** RESURFACING - CRACKSEAL /SEAL AND COVER  
 25TH ST S - CENTRAL AVE TO 10TH AVE S  
 GREAT FALLS CASCADE COUNTY

LENGTH 0.7 miles  
 NO SCALE



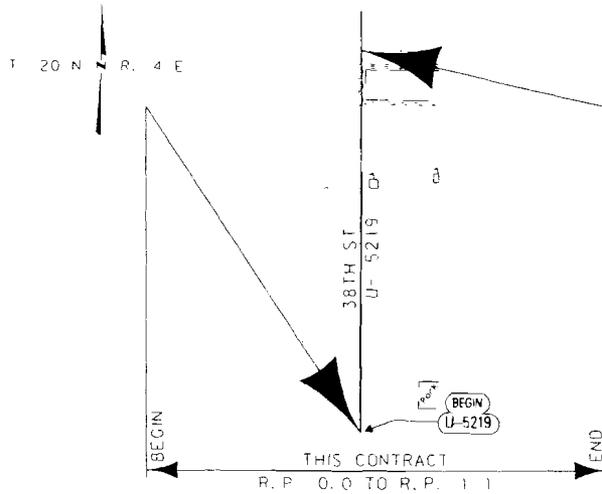
**AREA 2** RESURFACING - CRACKSEAL /SEAL AND COVER  
 38TH ST N - 7TH AVE N TO NE BYPASS  
 GREAT FALLS CASCADE COUNTY

LENGTH 0.5 miles  
 NO SCALE



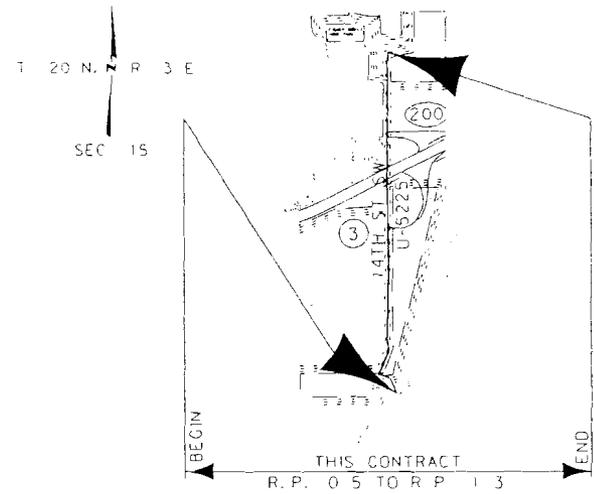
**AREA 3** RESURFACING - CRACKSEAL /SEAL AND COVER  
 38TH ST - 10TH AVE S TO 4TH AVE N  
 GREAT FALLS CASCADE COUNTY

LENGTH 1.1 miles  
 NO SCALE



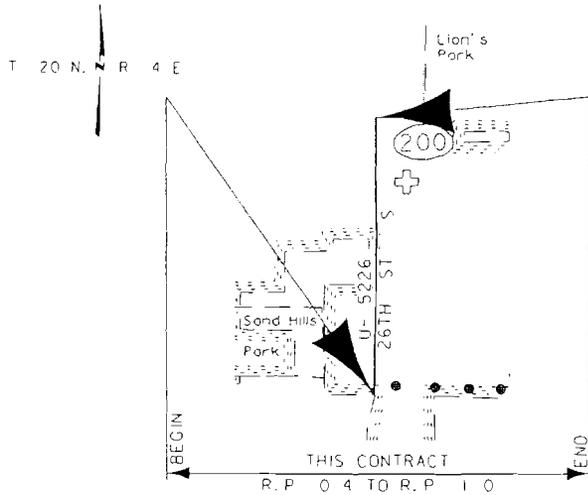
**AREA 4** RESURFACING - CRACKSEAL /SEAL AND COVER  
 14TH ST SW - PARK GARDEN TO 13TH AVE SW  
 GREAT FALLS CASCADE COUNTY

LENGTH 0.8 miles  
 NO SCALE



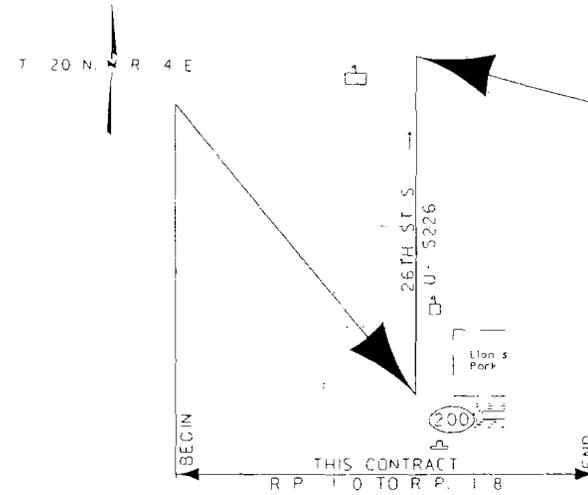
**AREA 5 RESURFACING - CRACKSEAL /SEAL AND COVER**  
**26TH ST S - CITY LIMITS TO 10TH AVE S**  
**GREAT FALLS CASCADE COUNTY**

**LENGTH 0.6 miles**  
**NO SCALE**



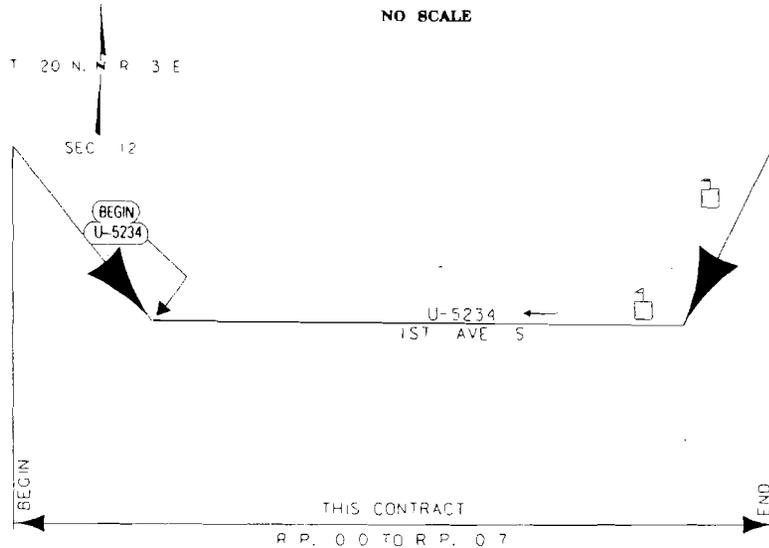
**AREA 6 RESURFACING - CRACKSEAL /SEAL AND COVER**  
**26TH ST S - 10TH AVE S TO CENTRAL AVE**  
**GREAT FALLS CASCADE COUNTY**

**LENGTH 0.8 miles**  
**NO SCALE**



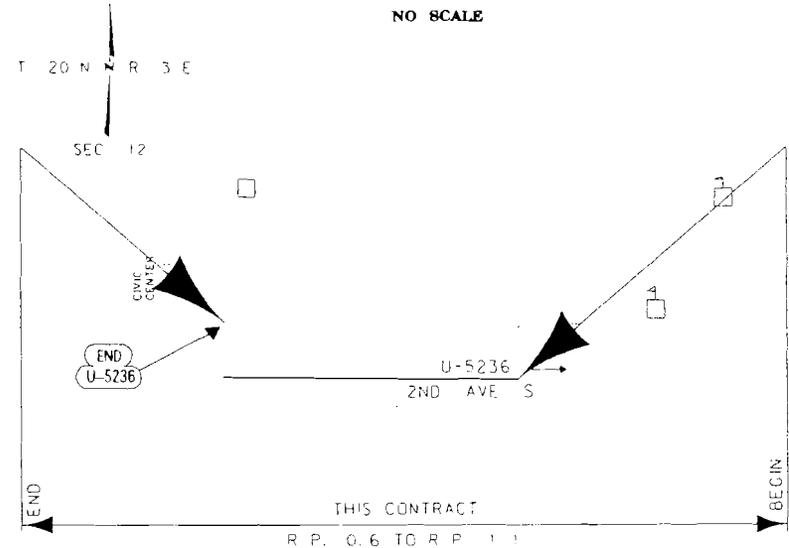
**AREA 7 RESURFACING - CRACKSEAL /SEAL AND COVER**  
**1ST AVE S - PARK DR TO 10TH ST S**  
**GREAT FALLS CASCADE COUNTY**

**LENGTH 0.7 miles**  
**NO SCALE**



**AREA 8 RESURFACING - CRACKSEAL /SEAL AND COVER**  
**2ND AVE S - 7TH ST S TO 2ND ST S**  
**GREAT FALLS CASCADE COUNTY**

**LENGTH 0.5 miles**  
**NO SCALE**



**AREA 9 RESURFACING - CRACKSEAL /SEAL AND COVER**  
**9TH ST NW - CENTRAL AVE W TO NW BYPASS**  
**GREAT FALLS CASCADE COUNTY**

**LENGTH 0.5 miles**

**NO SCALE**

