

**CAPITAL IMPROVEMENT PROGRAM**  
**City of Missoula CIP Project Request Form FY 2017-2021**

Program Category:	Project Title:		15 Project #	16 Project #	17 Project #
Community Service	Upper Gharrett Drainage Improvements		CS-07	CS-04	CS-04

**Description and justification of project and funding sources:**

Erosion of a steep gully in the Upper Gharrett drainage to the Ravenwood neighborhood causes erosion of private property and deposits of debris on private property. Preliminary design of the drainage improvements needs to be conducted so that project scope and funding sources can be identified. Over the past 12-years, the erosion has created a gully around 6 feet deep.

Drainage from streets in City development above this drainage contributes to the identified erosion problem.

**Is this equipment prioritized on an equipment replacement schedule?**

Yes

No

NA

X

**Are there any site requirements:**

N/A

**How is this project going to be funded:**

Funding Source	Accounting Code	FY17	FY18	FY19	FY20	FY21	Funded in Prior Years
Storm Water Utility Fund			50,000				
Potential FEMA Grant			200,000				

**How is this project going to be spent:**

Budgeted Funds	Accounting Code	FY17	FY18	FY19	FY20	FY21	Spent in Prior Years
A. Land Cost							
B. Construction Cost							
C. Contingencies (10% of B)			-	200,000			
D. Design & Engineering (15% of B)			-	20,000			
E. Percent for Art (1% of B)			-	30,000			
F. Equipment Costs							
G. Other							

**Does this project have any additional impact on the operating budget:**

Expense Object	Accounting Code	FY17	FY18	FY19	FY20	FY21	Spent in Prior Years
Personnel							
Supplies							
Purchased Services							
Fixed Charges							
Capital Outlay							
Debt Service							

Description of additional operating budget impact:

**Responsible Person:**

**Responsible Department:**

**Date Submitted to Finance**

**Today's Date and Time**

**Preparer's Initials**

**Total Score**

John Wilson

Public Works - Operations

3/25/2016

4/20/16 9:30

CJK

34

## CAPITAL IMPROVEMENT PROGRAM

### Project Rating

(See C.I.P. Instructions For Explanation of Criteria)

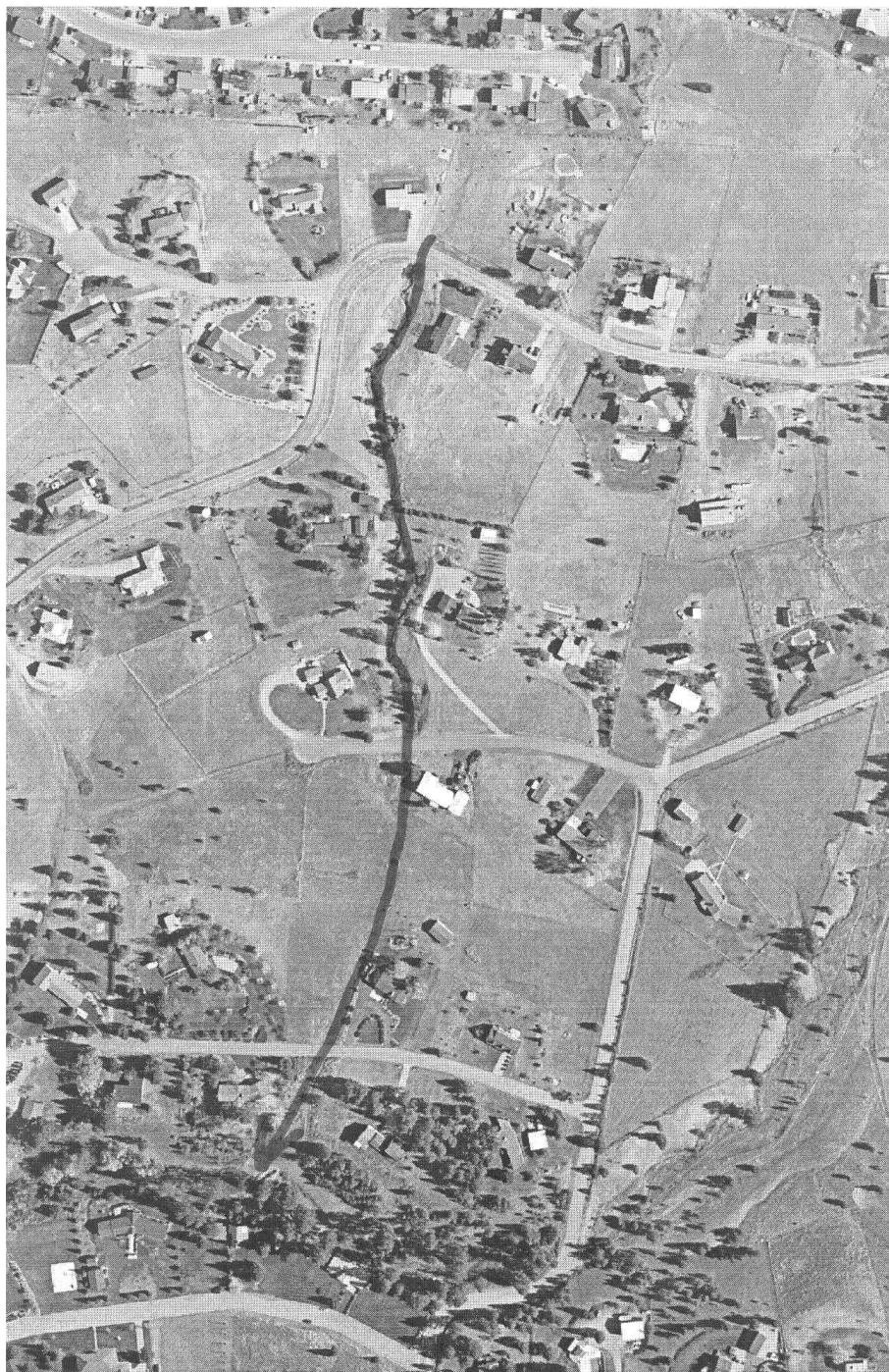
Program Category:	Project Title:				10 Project #	
Community Service	Upper Gharrett Drainage Improvements				CS-04	
Qualitative Analysis	Yes	No	Comments			
1. Is the project necessary to meet federal, state, or local legal requirements? This criterion includes projects mandated by Court Order to meet requirements of law or other requirements. Of special concern is that the project be accessible to the handicapped.	X		The City is required to manage storm water runoff in accordance with General MS4 Permit No. MTR040000 for all storm systems within its jurisdiction.			
2. Is the project necessary to fulfill a contractual requirement? This criterion includes Federal or State grants which require local participation. Indicate the Grant name and number in the comment column.		X				
3. Is this project urgently required? Will delay result in curtailment of an essential service? This statement should be checked "Yes" only if an emergency is clearly indicated; otherwise, answer "No". If "Yes", be sure to give full justification.		X				
4. Does the project provide for and/or improve public health and/or public safety? This criterion should be answered "No" unless public health and/or safety can be shown to be an urgent or critical factor.		X				
Quantitative Analysis	Raw Score Range	Comments			Weight	Total Score
5. Does the project result in maximum benefit to the community from the investment dollar?	(0-3)	The erosion occurs in the Ravenwood area outside the city limits, but the cause of the erosion is street drainage from development in the city on the hills above Ravenwood.			5	5
6. Does the project require speedy implementation in order to assure its maximum effectiveness?	(0-3)				4	4
7. Does the project conserve energy, cultural or natural resources, or reduce pollution?	(0-3)	Erosion and sedimentation are considered pollutants when coming from the storm water drainage system. In addition, prevention of excess erosion of adjacent private property is a benefit to the owners of the property.			3	9
8. Does the project improve or expand upon essential City services where such services are recognized and accepted as being necessary and effective?	(0-2)				4	4
9. Does the project specifically relate to the City's strategic planning priorities or other plans?	(0-3)	The project is a requirement of the City's MS4 Permit No. MTR040000 for storm water system maintenance and pollution prevention.			4	12
Total Score						34

<b>17 Project #</b>	<b>Project Title:</b>
CS-04	Upper Gharrett Drainage Improvements

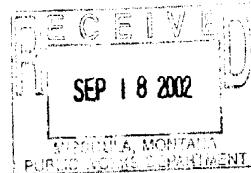
<b>Date</b>	<b>Author</b>	<b>Notes</b>
3/17/2016	Carla Krause	This CIP project was transferred from Development Services to Public Works - Operations. John Wilson will work with the Storm Water Program Coordinator for future storm water / drainage projects such as this.

<b>Date</b>	<b>Author</b>	<b>Notes</b>

CS-04    Upper Gharrett Drainage Improvements    Location of drainage:



**Gary W. Hawk**



9/17/2002

Steve King, City Engineer  
435 Ryman St.  
Missoula, MT 59802

Dear Steve,

As I write this one of the city crews is blowing out the culvert behind our house at 5860 Kerr Dr. I am very grateful that the Public Works Department, has returned again this year to address this problem.

During a heavy thunderstorm this past June I took a few photographs of the area. I have enclosed them for your benefit. As someone who observes this problem on a regular basis, it appears to me that there are two problems. First, it seems as though the culvert is not large enough to handle the amount of runoff that accumulates from the city streets above the culvert. Second, an enormous amount of rocky material is picked up above the culvert and where the water flows underground between Pinewood and N. Meadowwood. In a time of fiscal constraint, annual maintenance at the mouth of the culvert may be the least expensive way to manage the situation. I hope, however, that someone in your department will take a look at the long-term problems associated with enormous deposition taking place beyond the culvert.

Thanks for sending out a crew again this year. Without this intervention I am certain we would lose the culvert. When possible, please consider a long term solution. As the gravel accumulates below the culvert we are beginning to lose the grassy area along the stream as well trees that cannot tolerate deposition around their trunks.

Thanks for giving this your consideration.

Sincerely,

*Gary W. Hawk*  
Gary W. Hawk

