

**AUGUST 2001 FIRE COMPLEX  
BURNED AREA EMERGENCY STABILIZATION REHABILITATION PLAN**

**PART F - SPECIFICATIONS**

<b>SPECIFICATION TITLE:</b>	Construct Flood Warning Signs	<b>AGENCY:</b>	BLM Elko F.O.
<b>PART E LINE ITEM:</b>	#14 S-1 ROADS, TRAILS AND SAFETY SIGNS	<b>FISCAL YEAR(S) (list each year):</b>	2002 - 2004

**I. WORK TO BE DONE**

**Number and Describe Each Task:**

**A. General Description:** The attached public safety sign was developed for immediate installation on roads and in housing areas that are likely to sustain damage from flooding and debris flows.

**The Sign Should Read:**

**WARNING**  
  
**MUD FLOW AND ROLLING BOULDER  
HAZARD IN THIS AREA  
CAUSED BY THE FIRE  
USE EXTREME CAUTION DURING RAIN  
AND FOR 1 HOUR AFTER RAIN  
LEAVE THE AREA/STAY OUT OF CANYONS  
DURING RAINSTORMS**

**B. Location/(Suitable) Sites:** Place signs along roads at key access points to canyons that are likely to flood

**C. Design/Construction Specifications:**

1. All signs will be metal or Omega board with white background and red lettering.
2. Signs will be constructed on a standard metal or Omega board sheet (see materials below).
3. Signs will be mounted on two 8ft tall 4x4 posts with carriage bolts.
4. Post holes should be dug a minimum of 2ft deep.

**D. Purpose of Treatment Specifications:** Flood flows are expected to be at least twice as high along the road that follows the main drainage in the burned condition than in the preburn condition. Flash floods have the potential to carry vehicles and people off roads. The area of highest risk for flash floods is the bottom of narrow canyons.

**E. Treatment Effectiveness Monitoring Proposed:** Signs will be inspected at least twice per year for vandalism. The portion of the road within the burn should be closed until successful revegetation has been completed.

**II. LABOR, MATERIALS AND OTHER COST:**

<b>▶ PERSONNEL SERVICES: (Grade @ Cost/Hours X # Hours X # Fiscal Years = Cost/Item): Do not include contract personnel costs here (see contractor services below).</b>	<b>COST/ITEM</b>
WG-5 @ \$12.00/hr X 16 hrs X 1 year to make and install signs (seasonal employees)	\$192
TOTAL PERSONNEL SERVICE COST	<b>\$192</b>
<b>▶ EQUIPMENT PURCHASE, LEASE AND/OR RENT (Item @ Cost/Hour X # of Hours X #Fiscal Years = Cost/Item): Note: Purchases require written justification that demonstrates cost benefits over leasing or renting.</b>	<b>COST/ITEM</b>
Vehicle Cost @ \$.17 per mile x 400 miles x 1 vehicle x 1 year	\$68

Vehicle Cost @ \$40.00 per day x 2 days x 1 vehicle x 1 year	\$80
Vehicle Cost @ \$33.00 per day x 2 days x 1 vehicle X 1year	\$66
<b>TOTAL EQUIPMENT PURCHASE, LEASE OR RENTAL COST</b>	<b>\$214</b>
<b>► MATERIALS AND SUPPLIES (Item @ Cost/Each X Quantity X #Fiscal Years = Cost/Item):</b>	<b>COST/ITEM</b>
Pressure Treated Posts 4" by 4" by 8 ft @ \$10.00/ea x 4 x 1 year	\$40
Carriage Bolts with Washers and Nuts 1-6" @ \$1.00/ea x 12 x 1 year	\$12
Bags Concrete @ \$12.00/ea x 4 bags x 1 year	\$48
White Metal or Omega Sign Board 4ft x 8ft @ \$120/ea x 2 x 1 year	\$240
<b>TOTAL MATERIALS AND SUPPLY COST</b>	<b>\$340</b>
<b>► TRAVEL COST (Personnel or Equipment @ Rate X Round Trips X #Fiscal Years = Cost/Item):</b>	<b>COST/ITEM</b>
	N/A
<b>TOTAL TRAVEL COST</b>	<b>N/A</b>
<b>► CONTRACT COST (Labor or Equipment @ Cost/Hour X #Hours X #Fiscal Years = Cost/Item):</b>	<b>COST/ITEM</b>
	N/A
<b>TOTAL CONTRACT COST</b>	<b>N/A</b>

**SPECIFICATION COST SUMMARY**

FISCAL YEAR	UNIT	UNITS COST	# OF UNITS	COST	FUNDING SOURCE	METHOD
FY 1	SIGN	\$373.00	2.0	\$746	EFR	P
FY 2						
FY 3						
<b>TOTAL</b>		<b>\$373.00</b>	<b>20.0</b>	<b>\$746</b>	<b>EFR</b>	<b>P</b>

FUNDING SOURCE

- F - Suppression Operations
- EFR - Emergency Fire Rehabilitation
- EWP - Emergency Watershed Protection
- OP/O - Agency Operations/Other

METHODS

- P - Agency Personnel Services
- C - Contract (long-term)
- EFC - Emergency Fire Contract (short-term)
- FC - Incident Management Crew Assignment

**SOURCE OF COST ESTIMATE**

1. Estimate obtained from 2-3 independent contractual sources.	
2. Documented cost figures from similar project work obtained from local agency sources.	M
3. Estimate supported by cost guides from independent sources or other federal agencies	
4. Estimates based upon government wage rates and material cost.	P
5. No cost estimate required - cost charged to Fire Suppression Account	

P = Personnel Services, E = Equipment M = Materials/Supplies, T = Travel, C = Contract, F = Suppression

**III. RELEVANT DETAILS, MAPS AND DOCUMENTATION INCLUDED IN THIS REPORT:**

List Relevant Documentation and Cross-Reference Location within ESR Plan Accomplishment Report (for Rehabilitation treatments quote (include page number, approving officials name, and date approved for review and auditing purposes) pertinent passages from approved land management plans:

IV.

**TOTAL COST BY FIRE**

<b>FIRE NAME</b>	<b>UNITS TREATED</b>	<b>COST</b>
MILE MARKER 367 FIRE	1	\$373.00
SHEEP CREEK	1	\$373.00
<b>TOTAL COST</b>	<b>2</b>	<b>\$746.00</b>