

HAZARD MITIGATION PROPOSAL (HMP)

DISASTER		APPLICANT	Project # /PW #	FIPS NO.	CATEGORY
DR-4355	NH	Bartlett River Street Bridge Box Culvert	42772/ 116730		C

SCOPE OF WORK:

Address/GPS Coordinates of facility: River Street and Cobb Farm Bartlett, Carroll County, New Hampshire. 44.083822, -71.28552. 2015. Previous FEMA mitigation grant was awarded for the current 2015 box culvert. A parking lot was recently constructed adjacent to the box culverts. The facility was installed at the bridge approach of River Street bridge meets Cobb Farm Road. Two flood panels FP2207C1300D & FP33003C0158D are located in the vicinity of this area. 674FT NAVD88, Floodway Zone AE. The River Street bridge and box culverts spans over Sanco River and is perpendicular nearby (90yds) Razor Creek. Cobb Farm Road has a wood slab bridge that crosses over Razor Creek (<http://bridgereports.com/nh/carroll/>). USGS gage 010642505 is located on the bridge.

Damage Description: Due to disaster declaration flooding and heavy rains caused damaged to the box culverts by scouring the materials and road base on the approach of the River Street Bridge. Estimated cost of repair: \$ ____.

Hazard Mitigation Proposal: Applicant proposes mitigation by adding wingwalls to the box culverts in order to prevent scour damage in a similar storm event. The applicant will hire a contractor to installation pre-casted concrete wingwalls to match the diameter precast box concrete culverts. Please see contract for labor, equipment and materials for line item costs. Mitigation estimated costs: \$ ____.

Hazard Mitigation Ratio: Estimated Mitigation Proposal Cost (1. drainage bioswale + 2. Installation of buttress wall)/Estimated Pre-Disaster Repair Cost (100) =/< 100% of Pre-Disaster Cost.

HMP Feasibility and Cost Effectiveness: This Hazard Mitigation Proposal is </= 100% of Pre-Disaster Cost of the repair and restoration cost in accordance with Appendix J of the FEMA Public Assistance Program and Policy Guide FP 104-009-2/ April 2018 V3.1., Appendix J, I. Drainage Structures: B. For the purpose of erosion control add properly designed entrance and exit structures, such as a headwall, wingwalls, flared aprons, or energy dissipation measures to increase efficiency and help to minimize scour and erosion.

General Comment. If this HMP is approved and the Applicant desires to change the Scope of Work, the Applicant must apply for a change in the SOW so FEMA can review to ensure program and EHP compliance. If this HMP is approved, and the mitigation is not performed, the Applicant must apply for a change in the SOW and de-obligation of the HMP funding. Applicant refusal or failure to complete the work of the HMP may limit future FEMA funding of repairs at the site in the event that a similar disaster event results in similar damage at the site.

Draft Draft Draft Draft

ESTIMATE OF WORK

ITEM	CODE	DESCRIPTION	QUANTITY	UNIT	UNIT PRICE	COST
1	9999	Contract Costs for Labor, Equipment, and Materials	1.00	LS	\$1.00	\$1.00
Total In-Kind Repair/Replacement Cost of Damaged Element(s)			\$2.00		Total HMP Cost (Do Not Include in the Project)	
HMP Cost Effectiveness (% of Total Eligible Cost)			50.00%			
Eligibility			100% Rule			
TECHNICAL SPECIALIST FOR MITIGATION (SIGNATURE) Theresa Swank			Agency FEMA		Date 06/19/18	
RECOMMENDED BY (SIGNATURE)			TITLE PDMG		Agency FEMA	
CONCURRENCE BY STATE INSPECTOR			Agency		Date	
CONCURRENCE BY APPLICANT			Agency		Date	

NOTE: Signature by the Federal Inspector is not an approval of this work, and signature by the state and Local Representative is not a commitment to perform the work.