

## ACTIVITY 2 SOLUTION

### Solution:

U.S. DEPARTMENT OF HOMELAND SECURITY FEDERAL EMERGENCY MANAGEMENT AGENCY <b>PROJECT WORKSHEET</b>				OMB No. 1660-0017 Expires October 31, 2008	
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DISASTER FEMA- <u>5002</u> -DR- <u>KY</u>	PROJECT NO. A-2-C	PA ID NO. 000-U9A30-00	DATE 6/19/2007	CATEGORY C	
DAMAGED FACILITY Morris Street Culvert			WORK COMPLETE AS OF 6/19/07 : 70 %		
APPLICANT City of Maryville		COUNTY Daly			
LOCATION Morris Street at Willow Creek Crossing			LATITUDE 37.57245	LONGITUDE -83.70842	
DAMAGE DESCRIPTION AND DIMENSIONS  Flooding resulting from the disaster storms on May 26, 2007, caused culvert washouts along Willow Creek due to high flow velocities. The culvert at Morris Street crossing and a portion of the roadway were completely washed out.  <i>Refer to the Continuation Sheet for further discussion.</i>					
SCOPE OF WORK <b>WORK COMPLETED</b> 1. Furnish and install a 36-inch CMP – 30 LF. 2. Replace 6-ft x 8-ft concrete headwalls – 2 each. 3. Replace roadway embankment with granular backfill 24-ft wide x 40-ft long x 8-ft high (5,760 CF), less area of pipe under roadway (36-inch diameter x 24-ft long - 170 CF) = 5,590 CF / 27 = 207 CY.  <b>SEE CONTINUATION SHEET</b>					
Does the Scope of Work change the pre-disaster conditions at the site? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No Special Considerations issues included? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No Hazard Mitigation proposal included? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No Is there insurance coverage on this facility? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No					
<b>PROJECT COST</b>					
ITEM	CODE	NARRATIVE	QUANTITY/UNIT	UNIT PRICE	COST
		<b>Work Completed</b>			
1	9025	Replace 36" CMP, Concrete Headwall, Backfill	1 / LS	\$ 10,455.00	\$ 10,455.00
		<b>Work to Be Completed</b>			
2	3091	Aggregate Base Course	18 / CY	\$ 19.50	\$ 351.00
3	3100	Bituminous Cold Patch	108 / SY	\$ 5.30	\$ 572.40
				<b>TOTAL COST ►</b>	<b>\$ 11,558.40</b>
PREPARED BY		TITLE	SIGNATURE		
APPLICANT REP.		TITLE	SIGNATURE		

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REPLACES ALL PREVIOUS EDITIONS.

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U.S. DEPARTMENT OF HOMELAND SECURITY FEDERAL EMERGENCY MANAGEMENT AGENCY <b>PROJECT WORKSHEET - Damage Description and Scope of Work Continuation Sheet</b>				O.M.B. No. 1660-0017 Expires October 31, 2008
DISASTER FEMA- <u>5002</u> -DR- <u>KY</u>	PROJECT NO. <u>A-2-C</u>	PA ID NO. <u>000-U9A30-00</u>	DATE <u>6/8/2007</u>	CATEGORY <u>C</u>
APPLICANT <u>City of Maryville</u>		COUNTY <u>Daly</u>		
<p><b>DAMAGE DESCRIPTION AND DIMENSIONS (Continued)</b></p> <p>At this location a 36-inch diameter by 30-ft long culvert with 6-ft by 6-ft concrete headwalls on each end, and roadway section approximately 24-ft wide and 40-ft long, were completely washed out. The roadway is 24-ft wide, with 4-inch thick asphalt, underlain by 6-inches of aggregate base, and fill material around the pipe (6-ft high).</p> <p>The washed out material has either been removed from the stream (pipe and concrete) and funded under PW-27, or has washed downstream (broken asphalt, aggregate, backfill).</p> <p>The City of Maryville Public Works Department set up a detour so traffic would be redirected, which will be written up on another Project Worksheet.</p> <p><b>SCOPE OF WORK (Continued)</b></p> <p>The work was completed by Joe's Restoration Company for \$10,544.00. The contract was procured in accordance with the City's procurement policy.</p> <p><b>WORK TO BE COMPLETED:</b></p> <p>The following remaining work is necessary to replace the stream crossing to its pre-disaster condition:</p> <ol style="list-style-type: none"> <li>1. Replace aggregate base 40-ft x 24-ft x 6-inch = 480 CF / 27 = 18 CY.</li> <li>2. Replace asphalt with four-inch thick bituminous cold patch 24-ft x 40-ft = 960 SF / 9 = 107 SY.</li> </ol> <p>The City Department of Public Works will complete the remaining work at this site. The cost estimate is prepared using FEMA Cost Codes. The Director of Public Works agrees that these costs are reasonable estimates to complete the work with the City's own forces.</p> <p><b>Notes:</b></p> <ol style="list-style-type: none"> <li>1. The Applicant has requested that a Hazard Mitigation Specialist visit the site.</li> <li>2. The City of Maryville Public Works Department set up a detour so traffic would be redirected.</li> </ol> <p><b>Attachments:</b></p> <ul style="list-style-type: none"> <li>• Photo</li> <li>• Sketch</li> <li>• FIRMette</li> <li>• Cost documentation</li> </ul>				
PREPARED BY:			TITLE:	

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## ACTIVITY 2 SOLUTION

DEPARTMENT OF HOMELAND SECURITY FEDERAL EMERGENCY MANAGEMENT AGENCY <b>SPECIAL CONSIDERATIONS QUESTIONS</b>		O.M.B. No. 1660-0017 Expires October 31, 2008
APPLICANT City of Maryville		PA ID NO. 000-U9A30-00
PROJECT NAME Morris Street Culvert		DATE 6/8/2007
PROJECT NO. A-2-C	LOCATION Morris Street at Willow Creek Crossing	
<b>Form must be filled out - for each project.</b>		
1. Does the damaged facility or item of work have insurance and/or is it an insurable risk? (e.g., buildings, equipment, vehicles, etc.) <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> Unsure      Comments		
2. Is the damaged facility located within a floodplain or coastal high hazard area/or does it have an impact on a floodplain or wetland? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Unsure      Comments      Location identified on FIRM Map. Site is located in an "AE" zone of the 100 year floodplain. See FIRM Map No. 48029C0428 F.		
3. Is the damaged facility or item of work located within or adjacent to a Coastal Barrier Resource System Unit or an Otherwise Protected Area? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> Unsure      Comments		
4. Will the proposed facility repairs/reconstruction change the pre-disaster condition? (e.g., footprint, material, location, capacity, use or function) <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> Unsure      Comments		
5. Does the applicant have a hazard mitigation proposal or would the applicant like technical assistance for a hazard mitigation proposal? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Unsure      Comments      The Applicant is interested in possible Hazard Mitigation opportunities and has requested that a Hazard Mitigation Technical Specialist visit the site.		
6. Is the damaged facility on the National Register of Historic Places or the state historic listing? Is it older than 50 years? Are there other, similar buildings near the site? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> Unsure      Comments		
7. Are there any pristine or undisturbed areas on, or near, the project site? Are there large tracts of forestland? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> Unsure      Comments		
8. Are there any hazardous materials at or adjacent to the damaged facility and/or item of work? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> Unsure      Comments		
9. Are there any other environmental or controversial issues associated with the damaged facility and/or item of work? <input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> Unsure      Comments PW 27 may address the issue regarding the materials washing down the stream.		

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