

PA-01-VT-4330-PW-00037(0) <u>P</u>	
Applicant Name:	Application Title:
MIDDLEBURY (TOWN OF)	0003931 Creek Road
Period of Performance Start:	Period of Performance End:
08-16-2017	02-16-2019

Bundle Reference # (Amendment #)	Date Awarded
PA-01-VT-4330-PW-00037(53)	08-28-2018

Subgrant Application - FEMA Form 90-91

Note: The Effective Cost Share for this application is 75%

FEDERAL EMERGENCY MANAGEMENT AGENCY PROJECT WORKSHEET					
DISASTER		PROJECT NO.	PA ID NO.	DATE	CATEGORY
FEMA	4330	0003931	001-44350-00	05-10-2018	C
-	DR	-VT			
APPLICANT: MIDDLEBURY (TOWN OF)				WORK COMPLETE AS OF:	
				04-26-2018 : 0 %	
Site 1 of 1					
DAMAGED FACILITY:			COUNTY: Addison		
Damage #12333; Creek road south					
LOCATION:				LATITUDE:	LONGITUDE:
PA-01-VT-4330-PW-00037(0): Creek Road South Middlebury , Vermont 05753 43.977980, -73.157310				43.97798	-73.15731
Current Version:					
DAMAGE DESCRIPTION AND DIMENSIONS:					
PA-01-VT-4330-PW-00037(0): The Disaster #4330DR, which occurred between 6/29/2017 and 7/1/2017, caused:					
Damage #12333; Creek road south					
General Facility Information:					
-Facility Type: Roads (No Culverts)					
-Facility: road					
-Facility Description: gravel					
-Approx. Year Built: 0					
-Road Type: Gravel					
-Start GPS Latitude/Longitude: 43.991104, -73.16407					
-End GPS Latitude/Longitude: 43.983547, -73.159012					
-Width (ft): 20					
-Number of Lanes: 2					
General Damage Information:					
-Date Damaged: 7/1/2017					
-Cause of Damage: Flooding from Otter Creek washed out 5 different sections of roadway and caused embankment failure and road washout					
Road Damage:					
Road Washout:					
-Surface, 30 CY of crushed gravel, 365 FT long x 8 FT wide x 0.25 FT deep, Flooding from Otter Creek washed out 5 different sections of roadway and caused embankment failure and road washout, 0% work completed.					
-Base, 245 CY of processed gravel, 365 FT long x 8 FT wide x 2.25 FT deep, Flooding from Otter Creek washed out 5 different sections of roadway and caused embankment failure and road washout, 0% work completed.					
Site 1:					
-Embankment, 105 CY of gravel, 140 FT long x 13 FT wide x 1.5 FT deep, Flooding from Otter Creek washed out 5 different sections of roadway and caused embankment failure and road washout, 0% work completed.					

Site 2:

-Embankment, 100 CY of gravel, 110 FT long x 16 FT wide x 1.5 FT deep, Flooding from Otter Creek washed out 5 different sections of roadway and caused embankment failure and road washout, 0% work completed.

Site 3:

-Embankment, 100 CY of gravel, 45 FT long x 15 FT wide x 4 FT deep, Flooding from Otter Creek washed out 5 different sections of roadway and caused embankment failure and road washout, 0% work completed.

Site 4:

-Embankment, 45 CY of gravel, 40 FT long x 15 FT wide x 2 FT deep, Flooding from Otter Creek washed out 5 different sections of roadway and caused embankment failure and road washout, 0% work completed.

Site 5:

-Embankment, 320 CY of gravel, 230 FT long x 15 FT wide x 2.5 FT deep, Flooding from Otter Creek washed out 5 different sections of roadway and caused embankment failure and road washout, 0% work completed.

FEMA site inspectors inspected 5 different sections of road and embankment failure on Creek road which runs parallel to Otter Creek. At this location, FEMA site inspectors found that the embankment failed from beneath it and either fell straight down or sloped down. There were a variety of dimensions of which were captured above. At this time, the Applicant does not have a plan in place to fix these locations. The Applicant will update PDMG with further information.

Current Version:

SCOPE OF WORK:

PA-01-VT-4330-PW-00037(0):
12333 Creek road south

Work to be completed

The applicant will utilize contracts for repairs to Creek Rd. to bring it back to pre-disaster design, function and capacity.

Road Washout:

A. Replace 27.04 CY surface gravel

B. Replace 243.33 CY base gravel

Site 1:

C. Replace 101.11 CY of embankment gravel

Site 2:

D. Replace 97.78 CY of embankment gravel

Site 3:

E. Replace 100 CY of embankment gravel

Site 4:

F. Replace 44.44 CY of embankment gravel

Site 5:

G. Replace 319.44 CY of embankment gravel

Work to be Completed Total: \$41,699.63

Scope Notes:

1. Item A Calculation Error DDD says 30 CY correct calculation should be 27.04
2. Item B Calculation Error DDD says 245 CY correct calculation should be 243.33
3. Item C Calculation Error DDD says 105 CY correct calculation should be 101.11
4. Item D Calculation Error DDD says 100 CY correct calculation should be 97.78
5. Item F Calculation Error DDD says 45 CY correct calculation should be 44.44
6. Item G Calculation Error DDD says 320 CY correct calculation should be 319.44

Project Notes:

1. All site estimates for work to be completed were generated using VTDOT Weighted Averages and RS Means. See attachment labeled 3931 Cost Estimate.xls.
2. Applicant is not claiming DAC.

3. All procurement documents have been provided and reviewed.

4. This project has been checked using the Vermont Agency of Transportation Statewide Highway Classification by Region maps. The repair areas for this Project are not on any Federal-aid roads. See attachment labeled AddisonCountyRPC.pdf.

5. Applicant is seeking mitigation for this project.

Current Version:

Does the Scope of Work change the pre-disaster conditions at the site? Yes <input checked="" type="checkbox"/> No	Special Considerations included? <input checked="" type="checkbox"/> Yes No
Hazard Mitigation proposal included? Yes <input checked="" type="checkbox"/> No	Is there insurance coverage on this facility? Yes <input checked="" type="checkbox"/> No

PROJECT COST

ITEM	CODE	NARRATIVE	QUANTITY/UNIT	UNIT PRICE	COST
		*** Version 0 ***			
		Work To Be Completed			
1	9001	Contract	1/LS	\$ 41,699.63	\$ 41,699.63
2	9903	No Direct Administrative Costs	1/LS	\$ 0.00	\$ 0.00
				TOTAL COST	\$ 41,699.63
PREPARED BY BRIAN J MINNS		TITLE PDMG	SIGNATURE		
APPLICANT REP. Kathleen Ramsay		TITLE Town Manager	SIGNATURE		

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PA-01-VT-4330-PW-00076(0) <u>P</u>	
Applicant Name:	Application Title:
MIDDLEBURY (TOWN OF)	CP11686 gravel road washouts and repairs
Period of Performance Start:	Period of Performance End:
08-16-2017	02-16-2019

Bundle Reference # (Amendment #)	Date Awarded
PA-01-VT-4330-PW-00076(72)	09-21-2018

Subgrant Application - FEMA Form 90-91

Note: The Effective Cost Share for this application is 75%

FEDERAL EMERGENCY MANAGEMENT AGENCY PROJECT WORKSHEET					
DISASTER		PROJECT NO.	PA ID NO.	DATE	CATEGORY
FEMA	4330 - DR -VT	11686	001-44350-00	07-11-2018	C
APPLICANT: MIDDLEBURY (TOWN OF)				WORK COMPLETE AS OF: 07-11-2018 : 100 %	
Site 1 of 6					
DAMAGED FACILITY:			COUNTY: Addison		
Damage #42358; 3-Mile Bridge Road					
LOCATION:				LATITUDE:	LONGITUDE:
PA-01-VT-4330-PW-00076(0): # 440, 3-Mile Bridge Road Middlebury, Vermont 05753				43.96615	-73.12417
Current Version:					
DAMAGE DESCRIPTION AND DIMENSIONS:					
PA-01-VT-4330-PW-00076(0): The Disaster #4330DR, which occurred between 6/29/2017 and 7/1/2017, caused:					
Damage #42358; 3-Mile Bridge Road					
General Facility Information:					
Facility Type: Roads (No Culverts)					
Facility: 440 3-Mile Bridge Road					
Facility Description: gravel road					
Approx. Year Built: 1970					
Location Description: 440 3-mile Bridge Road, Town of Middlebury, VT					
Road Type: Gravel					
GPS Latitude/Longitude: 43.96615, -73.12417					
Width (ft): 15					
Number of Lanes: 2					
General Damage Information:					
Date Damaged: 6/30/2017 to 7/1/2017					
Cause of Damage: Washout of driveway in right-of-way caused by flooding					
Road Damage:					

Base, 17.5 TN of gravel base material, 15 FT long x 15 FT wide x 1.5 FT deep, washout of gravel base material by flooding, 100% work completed.

Current Version:

SCOPE OF WORK:

PA-01-VT-4330-PW-00076(0):
42358 3-Mile Bridge Road

Work Completed

Applicant utilized force account labor, equipment, and materials to make 100% complete in-kind repairs at 440 3-Mile Bridge Road returning it to pre-disaster design, function and capability within the existing footprint:

A. Replaced 18 TN of gravel base

1. Force account labor (overtime) – 3 employees, 25.5 hours: \$1,114.86
2. Force account equipment – 4 pieces of equipment, 15.5 hours: \$515.00
3. Materials: \$157.50

Work Completed Total: \$1,787.36

Total Damage Inventory Cost for DI#42358: \$1,787.36

Project Notes:

1. The original applicant-provided equipment cost sheets incorrectly used the 2017 cost codes. The equipment totals were corrected using 2015 FEMA cost codes.
2. Payroll documents have been provided and reviewed. See attachment labeled, "Middlebury Copy of Payroll Data.xlsx"
3. Direct Administrative Costs (DAC): The Applicant is not claiming any DAC associated with this project.
4. Equipment was staged within the established right-of-way at the road sites.
5. Aggregate materials and topsoil were hauled from the Town's Public Works stockpile located at 1020 South Route 7, Middlebury, VT (GPS: 43.99513, -73.14487).
6. Quantities for Damage Description and Dimensions are estimated material quantities calculated from field dimensions. Quantities used for Scope of Work are based upon actual material quantities used in repair, or estimated for reclaimed gravel.
7. All costs associated with this project have been validated. See validation document entitled, "Project 11686 Cat C Validation Summary Sheet.xlsx."

Current Version:

Site 2 of 6

DAMAGED FACILITY:

Damage #42359; 3-Mile Bridge Road

COUNTY: Addison

LOCATION:

PA-01-VT-4330-PW-00076(0):
1500, 3-Mile Bridge Road
Middlebury, Vermont 05753

LATITUDE:

43.9646
43.96486

LONGITUDE:

-73.13972
-73.14114

Current Version:

DAMAGE DESCRIPTION AND DIMENSIONS:

PA-01-VT-4330-PW-00076(0):
Damage #42359; 3-Mile Bridge Road

General Facility Information:

Facility Type: Roads (No Culverts)

Facility: 1500 3-Mile Bridge Road

Facility Description: gravel road

Approx. Year Built: 1970

Location Description: 1500 3-Mile Bridge Road, Town of Middlebury, VT

Road Type: Gravel

Start GPS Latitude/Longitude: 43.96486, -73.14114

End GPS Latitude/Longitude: 43.96460, -73.13972

Width (ft): 22

Number of Lanes: 2

General Damage Information:

Date Damaged: 6/30/2017 to 7/1/2017

Cause of Damage: washout of gravel surfacing because of flooding

Road Damage:

Surface, 326 CY of gravel surfacing materials, 400 FT long x 22 FT wide x 1 FT deep, washout of gravel surfacing materials by flooding, 100% work completed.

Current Version:

SCOPE OF WORK:

PA-01-VT-4330-PW-00076(0):
42359 3-Mile Bridge Road

Work Completed

Applicant utilized force account labor and equipment to make 100% complete in-kind repairs at 1500 3-Mile Bridge Road returning it to pre-disaster design, function and capability within the existing footprint:

A. Replaced 326 CY of gravel surfacing material using reclaimed gravel

1. Force account labor (overtime) – 1 employee, 8.5 hours: \$301.16
2. Force account equipment – 1 piece of equipment, 6 hours: \$222.00

Work Completed Total: \$523.16

Total Damage Inventory Cost for DI#42359: \$523.16

Current Version:

Site 3 of 6

DAMAGED FACILITY:

Damage #42360; Blake Roy Road

COUNTY: Addison

LOCATION:

PA-01-VT-4330-PW-00076(0):
651, Blake Roy Road
Middlebury, Vermont 05753

LATITUDE:

43.95813

43.95854

LONGITUDE:

-73.13474

73.13496

Current Version:

DAMAGE DESCRIPTION AND DIMENSIONS:

PA-01-VT-4330-PW-00076(0):
Damage #42360; Blake Roy Road

General Facility Information:

Facility Type: Roads (No Culverts)

Facility: Blake Roy Road

Facility Description: gravel road

Approx. Year Built: 1970

Location Description: Blake Roy Road, Town of Middlebury, VT

Road Type: Gravel

Start GPS Latitude/Longitude: 43.95854, -73.13496

End GPS Latitude/Longitude: 43.95813, -73.13474

Width (ft): 22

Number of Lanes: 2

General Damage Information:

Date Damaged: 6/30/2017 to 7/1/2017

Cause of Damage: washout of gravel road surfacing material because of flooding

Road Damage:

Surface, 104 CY of gravel surfacing material, 350 FT long x 4 FT wide x 2 FT deep, washout of gravel surfacing material because of flooding, 100% work completed.

Current Version:

SCOPE OF WORK:

PA-01-VT-4330-PW-00076(0):
42360 Blake Roy Road

Work Completed

Applicant utilized force account labor and equipment to make 100% complete in-kind repairs at Blake Roy Road returning it to pre-disaster design, function and capability within the existing footprint:

A. Replaced 104 CY of gravel surfacing material using reclaimed gravel

1. Force account labor (overtime) – 1 employee, 1 hour: \$53.63
2. Force account equipment – 1 piece of equipment, 1 hour: \$84.00

Work Completed Total: \$137.63

Total Damage Inventory Cost for DI#42360: \$137.63

Current Version:

Site 4 of 6

DAMAGED FACILITY:

Damage #42361; Middle Road South

COUNTY: Addison

LOCATION:

PA-01-VT-4330-PW-00076(0):
81, Middle Road South
Middlebury, Vermont 05753

LATITUDE:

43.98545
43.98663

LONGITUDE:

-73.13561
-73.13552

Current Version:

DAMAGE DESCRIPTION AND DIMENSIONS:

PA-01-VT-4330-PW-00076(0):
Damage #42361; Middle Road South

General Facility Information:

Facility Type: Roads (No Culverts)

Facility: Middle Road South

Facility Description: gravel road

Approx. Year Built: 1970

Location Description: Middle Road South, Town of Middlebury, VT

Road Type: Gravel

Start GPS Latitude/Longitude: 43.98663, -73.13552

End GPS Latitude/Longitude: 43.98545, -73.13561

Width (ft): 22

Number of Lanes: 2

General Damage Information:

Date Damaged: 6/30/2017 to 7/1/2017

Cause of Damage: washout of road surfacing material

Road Damage:

Surface, 33 CY of gravel surfacing material, 300 FT long x 3 FT wide x 1 FT deep, washout of gravel surfacing material because of flooding, 100% work completed.

Current Version:

SCOPE OF WORK:

PA-01-VT-4330-PW-00076(0):
42361 Middle Road South

Work Completed

Applicant utilized force account labor and equipment to make 100% complete in-kind repairs at Middle Road South returning it to pre-disaster design, function and capability within the existing footprint:

A. Replaced 33 CY of gravel surfacing material using reclaimed gravel

- 1. Force account labor (overtime) – 1 employee, 1 hour: \$53.63
- 2. Force account equipment – 1 piece of equipment, 1 hour: \$84.00

Work Completed Total: \$137.63

Total Damage Inventory Cost for DI#42361: \$137.63

Current Version:

Site 5 of 6

DAMAGED FACILITY:

Damage #42362; East Munger Street

COUNTY: Addison

LOCATION:

PA-01-VT-4330-PW-00076(0):
78, East Munger Street
Middlebury, Vermont 05753

LATITUDE:

44.04138
44.04138

LONGITUDE:

-73.1159
-73.1041

Current Version:

DAMAGE DESCRIPTION AND DIMENSIONS:

PA-01-VT-4330-PW-00076(0):
Damage #42362; East Munger Street

General Facility Information:

Facility Type: Roads (No Culverts)

Facility: East Munger Street

Facility Description: gravel road

Approx. Year Built: 1970

Location Description: East Munger Street, Town of Middlebury, VT

Road Type: Gravel

Start GPS Latitude/Longitude: 44.04138, -73.1159

End GPS Latitude/Longitude: 44.04138, -73.104103

Width (ft): 22

Number of Lanes: 2

General Damage Information:

Date Damaged: 6/30/2017 to 7/1/2017

Cause of Damage: washout of road surfacing and erosion of ditches because of flooding

Road Damage:

Surface, 36 TN of gravel surfacing material, 500 FT long x 11 FT wide x 0.125 FT deep, washout of gravel surfacing material because of flooding, 100% work completed.

Ditches, 156 TN of stone and rock lining for ditches, 500 FT long x 3 FT wide x 2 FT deep, erosion of stone and rock lining in ditches because of flooding, 100% work completed.

Current Version:

SCOPE OF WORK:

PA-01-VT-4330-PW-00076(0):
42362 East Munger Street

Work Completed

Applicant utilized force account labor, equipment, materials and rental equipment to make 100% complete **in-kind repairs at East Munger Street** returning it to pre-disaster design, function and capability within the existing footprint:

A. Replaced 36 TN of gravel surfacing materials

B. Replaced 142.71 TN of stone and rock lining for ditches

1. Force account labor (straight time) – 6 employees, 144 hours: \$3,744.24

2. Force account labor (overtime) – 6 employees, 101.5 hours: \$4,005.09

3. Force account equipment – 8 pieces of equipment, 248 hours: \$14,571.50

4. Materials: \$2,489.54

5. Rental: \$2,000.00

Work Completed Total: \$26,810.37

Total Damage Inventory Cost for DI#42362: \$26,810.37

Scope Notes:

1. Equipment hours exceed labor hours because of combined equipment, i.e., pickup truck hauling a backhoe.

2. Cost Comparison of rental equipment with FEMA rates: using cost code 8282 for an excavator at \$72/hr for 39 hrs results in cost of \$2,808; claimed cost for rental excavator is less and therefore used for project.

Current Version:

Site 6 of 6

DAMAGED FACILITY:

Damage #42363; North Branch Road

COUNTY: Addison

LOCATION:

PA-01-VT-4330-PW-00076(0):
320, North Branch Road
Middlebury, Vermont 05753

LATITUDE:

43.973
43.9731

LONGITUDE:

-73.0833
-73.0821

Current Version:

DAMAGE DESCRIPTION AND DIMENSIONS:

PA-01-VT-4330-PW-00076(0):
Damage #42363; North Branch Road

General Facility Information:

Facility Type: Roads (No Culverts)

Facility: North Branch Road

Facility Description: gravel road

Approx. Year Built: 1970

Location Description: North Branch Road, Town of Middlebury, VT

Road Type: Gravel

Start GPS Latitude/Longitude: 43.973, -73.0833

End GPS Latitude/Longitude: 43.9731, -73.0821

Width (ft): 22

Number of Lanes: 2

General Damage Information:

Date Damaged: 6/30/2017 to 7/1/2017

Cause of Damage: washout of gravel surfacing material because of flooding

Road Damage:

Surface, 39 TN of gravel surfacing material, 300 FT long x 10 FT wide x 0.25 FT deep, washout of gravel surfacing material because of flooding, 100% work completed.

Current Version:

SCOPE OF WORK:

PA-01-VT-4330-PW-00076(0):
42363 North Branch Road

Work Completed

Applicant utilized force account labor, equipment, and materials to make 100% complete in-kind repairs at North Branch Road returning it to pre-disaster design, function and capability within the existing footprint:

A. Replaced 36 TN of gravel surfacing materials

1. Force account labor (straight time) – 2 employees, 8 hours: \$234.20
2. Force account equipment – 2 pieces of equipment, 8 hours: \$636.00
3. Materials: \$324.00

Work Completed Total: \$1,194.20

Total Damage Inventory Cost for DI#42363: \$1,194.20

Current Version:

Does the Scope of Work change the pre-disaster conditions at the site? Yes No

Special Considerations included? Yes No

Hazard Mitigation proposal included? Yes No

Is there insurance coverage on this facility? Yes No

PROJECT COST

ITEM	CODE	NARRATIVE	QUANTITY/UNIT	UNIT PRICE	COST
		*** Version 0 ***			
		Work Completed			
1	9004	Rented Equipment	1/LS	\$ 2,000.00	\$ 2,000.00
2	9007	Labor	1/LS	\$ 53.63	\$ 53.63
3	9007	Labor	1/LS	\$ 53.63	\$ 53.63
4	9007	Labor	1/LS	\$ 234.20	\$ 234.20
5	9007	Labor	1/LS	\$ 301.16	\$ 301.16
6	9007	Labor	1/LS	\$ 1,114.86	\$ 1,114.86
7	9007	Labor	1/LS	\$ 7,749.33	\$ 7,749.33
8	9008	Equipment	1/LS	\$ 84.00	\$ 84.00
9	9008	Equipment	1/LS	\$ 84.00	\$ 84.00
10	9008	Equipment	1/LS	\$ 222.00	\$ 222.00
11	9008	Equipment	1/LS	\$ 515.00	\$ 515.00
12	9008	Equipment	1/LS	\$ 636.00	\$ 636.00
13	9008	Equipment	1/LS	\$ 14,571.50	\$ 14,571.50
14	9009	Material	1/LS	\$ 157.50	\$ 157.50
15	9009	Material	1/LS	\$ 324.00	\$ 324.00
16	9009	Material	1/LS	\$	\$ 2,489.54

				2,489.54	
17	9903	No Direct Administrative Costs	1/LS	\$ 0.00	\$ 0.00
				TOTAL COST	\$ 30,590.35
PREPARED BY BRIAN J MINNS		TITLE PDMG	SIGNATURE		
APPLICANT REP. Kathleen Ramsay		TITLE Town Manager	SIGNATURE		

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