



Department of Buildings & General Services
Office of the Commissioner
2 Governor Aiken Ave.
Montpelier, VT 05633

[phone] 802-828-3519
[fax] 802-828-3533

Agency of Administration

December 31, 2015

Kimberly Canarecci
Public Assistance Officer
Vermont Department of Public Safety
Division of Emergency Management and Homeland Security
103 South Main Street
Waterbury, VT 05671-2101

SUBJECT: FEMA-4022-DR-VT-Vermont Department of Buildings and General Services (Applicant) Public Assistance (PA) ID-000-US9QN-00- Project Worksheet (PW) 3237 (2): WSOC JWE E AG LAB -- PROVISION OF REQUESTED INFORMATION AND GENERAL UPDATE ON PROGRESS

Dear Ms. Canarecci:

This letter is in response to a letter from George F Vanderschmidt, Deputy Recovery Director for FEMA Region 1, dated October 19, 2015, providing evidence requested and further updating the FEMA team on the building's progress.

First, the State of Vermont is grateful for the time extension of the project until June 30, 2018 and also for determination that the improved scope – locating the building on VTC's campus – remains eligible. Mr. Vanderschmidt asked for two further submissions to continue the approval process, (1) demonstration that the proposed site is of at least equal benefit as the hazard measures in the original PW and (2) a NEPA environmental assessment (EA).

Evidence that the new location improves the project scope

As described in our letter of January 30, 2015, the proposed Randolph Center location significantly improves flood hazard measures over those agreed upon in the original PW. Whereas the entire Waterbury campus is in or near a flood plain, at 429.5' of elevation, the proposed site in Randolph Center is approximately 1,320' above sea level just below the ridge of one of Vermont's Appalachian mountains.

FEMA has not mapped this site in its Flood Insurance Risk Map inventory. In Attachment 1, the site is in the area labeled "Non-printed Flood Map Boundary." Attachment 2 is an aerial view of the site with contours superimposed and the ridge identified. Attachments 3-5 identify flood-related hazards from Vermont's Agency of Natural Resources (ANR) online atlas. Attachment 3 identifies one dam with low hazard potential approximately 40' lower in elevation than the building. Attachment 4 identifies nearby wetlands and FIRM mapping in the area. Attachment 5 identifies all nearby river corridors; the only one is on the other side of the ridge. The area is not in a tactical basin planning zone for Vermont. Further, Rob Evans, Vermont's State Floodplain Manager, states "To confirm, there is not a federally mapped flood hazard area along Penny Brook in Randolph Center, which is the closest perennial stream to the site. We are not aware of any flooding that has occurred at the site. The site is well outside of the River Corridor 50' setback area (streams draining less than 2 square miles)."

General update on the project's progress

A. Overview

Since our last communication in January 2015 to FEMA, the Vermont Department of Buildings and General Services has acted on behalf of the Vermont General Assembly to manage the schematic design of the new laboratory. The General Assembly approved the project in April 2015. The project is on budget and on schedule. Since then, design development phase and permitting have begun.

B. Schematic Design

The schematic design was completed in May 2015. The project currently totals 38,831 sf (including a 2,000 sf heat plant) and has the same layout and function as the previous phase. There are no changes to staff, capacity, or function. Additional size since our last update (36,340 sf in January 2015) is due to the heat plant and creating basement space under the upper level's public entry area. See plans and elevations, Attachments 6-10.

Of note, this building is designed to be 50% more energy efficient than a typical laboratory, mostly due to highly efficient HVAC systems. The building will feature local materials wherever feasible.

C. General Assembly Approval

The General Assembly previously approved \$400,000 in FY '14 and FY '15. In their last session, the Assembly approved \$2,500,000 for FY '16 and \$14,048,000 for FY '17. A final appropriation of \$8,652,000 is anticipated FY '18 to complete the project; the current estimated total is therefore \$25,600,000. (See Attachment 11) The FY '18 appropriation request will be adjusted based on the final project budget needs, along with any corresponding reduction for utilization of FEMA funds.

D. Budget

The project budget is currently just over \$25,600,000 with a construction contingency of 7%. (See Attachments 12-14) This figure will be further refined by March 2016 when the construction manager is hired and completes a parallel cost estimate to the independent cost estimate.

E. Schedule

See Attachment 15 for the current project timeline. Construction is scheduled to begin fall 2016 and to end by spring 2018. The project should be complete as agreed by June 30, 2018. No further extension of the project's duration is needed at this time.

F. Next Steps

The project has recently entered design development phase. The design team is making final adjustments to laboratory layouts and mechanical/electrical/plumbing systems. This phase, along with another cost estimate will be complete by April 2016.

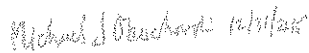
Requests for proposals (RFPs) will soon be issued for a construction manager as well as for a commissioning agent. Both members of the team will be in place by the middle of design development phase.

An environmental consultant has been retained to complete the environmental assessment and to assist with State review (Act 250 permit). This work will begin by the beginning of January and should be complete by the end of March. Background studies, such as traffic analysis and soil sampling, are complete and no significant issues have been identified.

Local permitting began in June 2015. It will continue until March 2016.

In conclusion, this project is moving forward within the parameters set by both federal and state governance. We at BGS look forward to further updating the FEMA team about progress.

Sincerely,



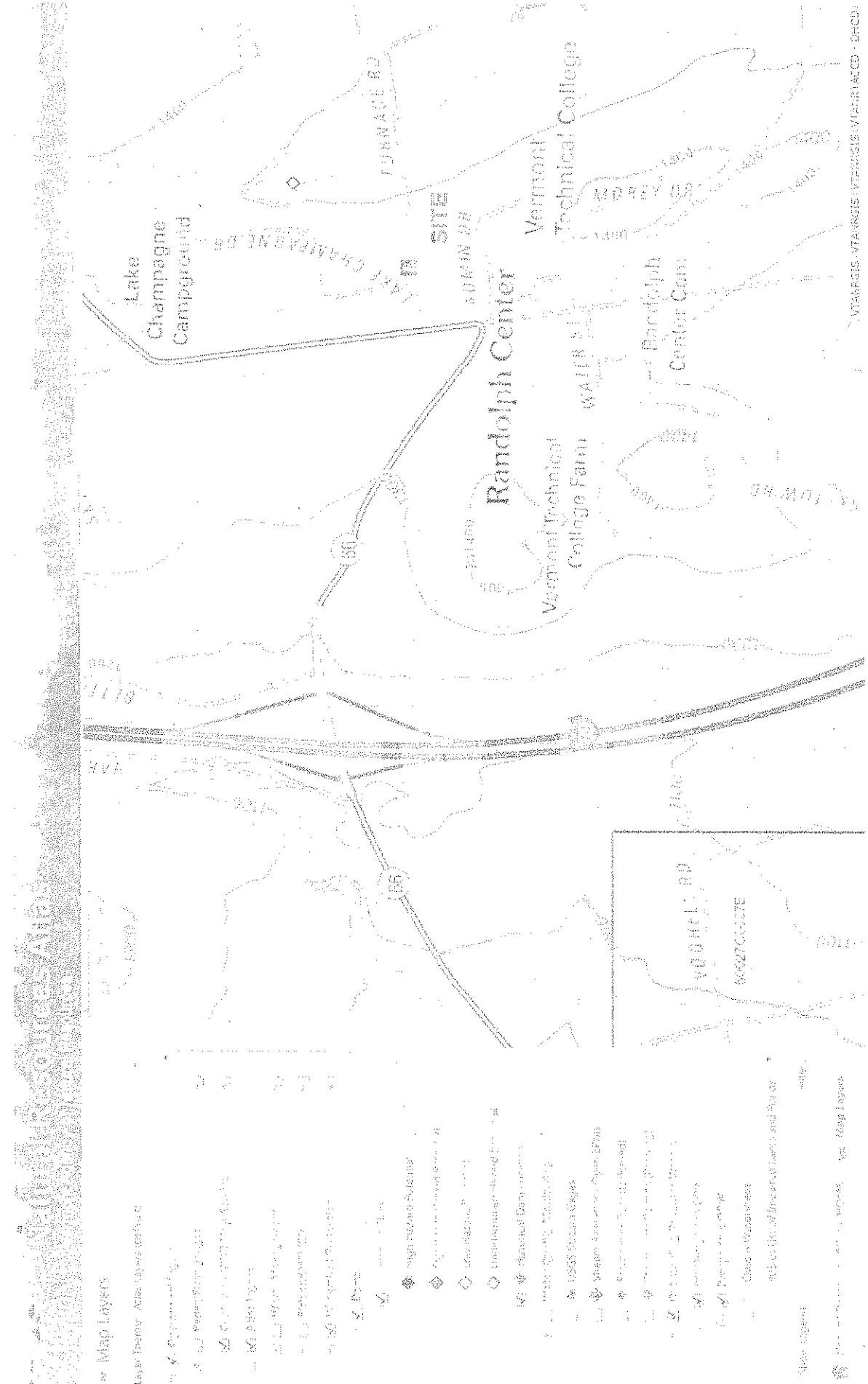
Michael Obuchowski, Commissioner
Vermont Department of Buildings and General Services
Subgrantee's Authorized Representative

CC: Ron Pentkowski, Public Assistance Coordinator

Attachments:

1. Screenshot for site in Randolph Center, location Randolph Town, from FEMA.gov Flood Map Service Center
2. USGS overlay on aerial photo for the site with the mountain ridge and nearby brook identified
3. Vermont Agency of Natural Resources Atlas overlay on USGS map showing low flood hazard at Penny Brook
4. Vermont Agency of Natural Resources Atlas overlay on USGS map showing nearby wetlands, nearby FIRM panels and floodways, and special flood hazard areas
5. Vermont Agency of Natural Resources Atlas overlay on USGS map showing nearby river corridors and tactical basin planning zones
6. Vermont Agriculture and Environmental Laboratory (VAEL), schematic phase site plan (May 29, 2015)
7. VAEL schematic phase lower level floor plan (May 29, 2015)
8. VAEL schematic phase upper level floor plan (May 29, 2015)
9. VAEL schematic phase roof plan (May 29, 2015)
10. VAEL schematic phase exterior elevations (May 29, 2015)
11. Excerpts from Act 26 of the Vermont General Assembly: pages 1-5, 24-25, and 45 showing references to the Agriculture Environmental Laboratory and effective dates for the Act.
12. Vermeulens' end-of-schematic phase construction cost for the project, May 29, 2015
13. BGS worksheet bring project within budget, November 6, 2015
14. BGS worksheet for total project cost, December 28, 2015
15. Timeline to complete project, May 28, 2105







STATE OF VERMONT
AGENCIES OF AGRICULTURE
AND NATURAL RESOURCES
COLLABORATIVE
LABORATORY

CANON DESIGN

VERMONT COLLABORATIVE
LABORATORY

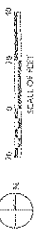
- ARCHITECT: CANON DESIGN
- DATE: MAY 2015
- PROJECT: VERMONT COLLABORATIVE LABORATORY
- LOCATION: 100 FURNACE STREET, VERMONT, VT 05401
- OWNER: VERMONT COLLABORATIVE LABORATORY
- DESIGNER: CANON DESIGN
- ARCHITECT: CANON DESIGN
- DATE: MAY 2015
- PROJECT: VERMONT COLLABORATIVE LABORATORY
- LOCATION: 100 FURNACE STREET, VERMONT, VT 05401
- OWNER: VERMONT COLLABORATIVE LABORATORY
- DESIGNER: CANON DESIGN

SCHEMATIC DESIGN
MAY 2015

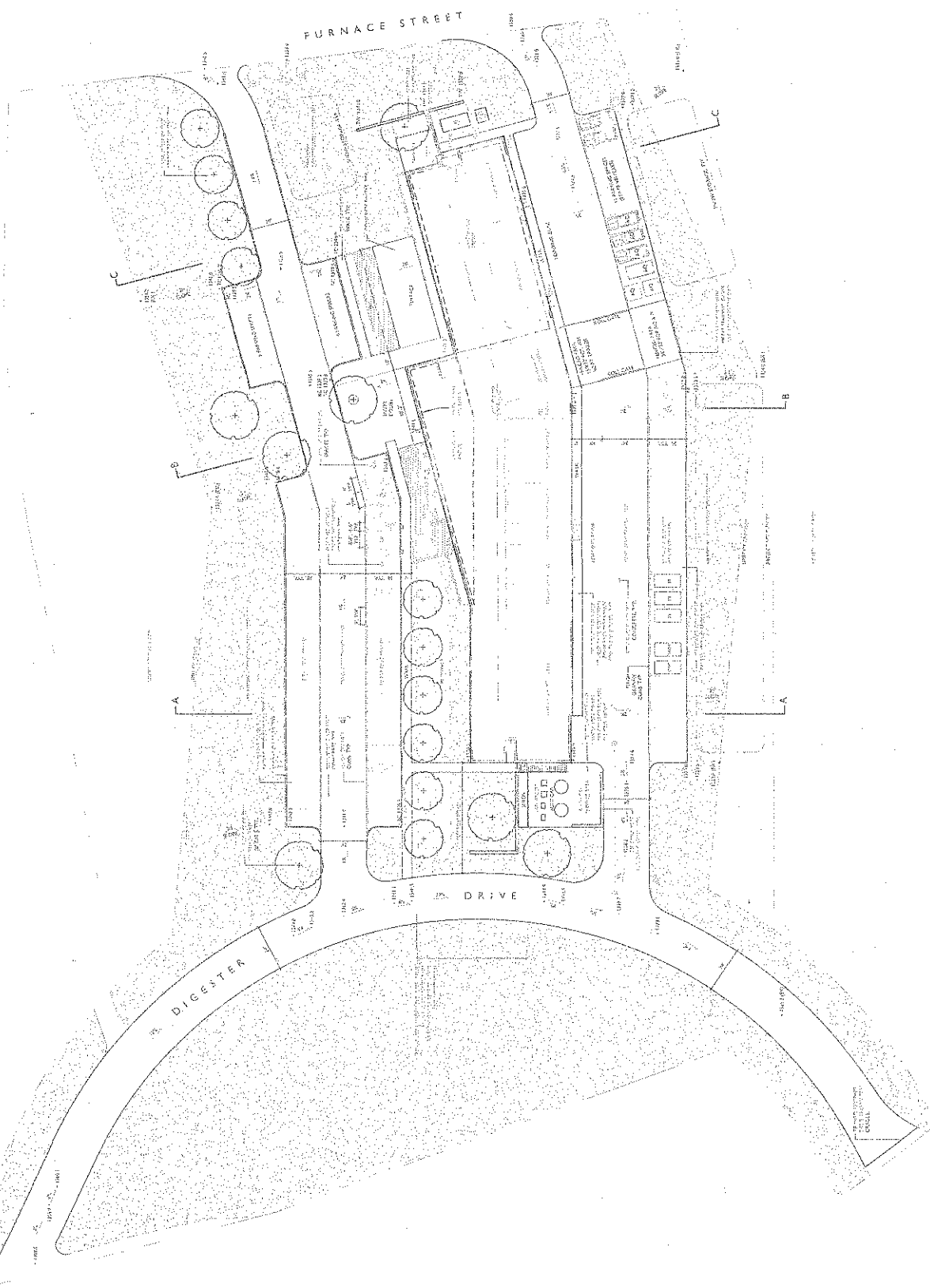


KEY PLAN

SITE PLAN



1001





STATE OF VERMONT
AGENCY OF AGRICULTURE
AND NATURAL RESOURCES
COLLABORATIVE
LABORATORY

CANNON DESIGN

ARCHITECT
100 STATE STREET
SUITE 200
MONTPELIER, VT 05602
PHONE: 802.255.1234
FAX: 802.255.1235
WWW.CANNONDESIGN.COM
CANNON DESIGN
100 STATE STREET
SUITE 200
MONTPELIER, VT 05602
PHONE: 802.255.1234
FAX: 802.255.1235
WWW.CANNONDESIGN.COM

SCHEMATIC DESIGN
MAY 29, 2015

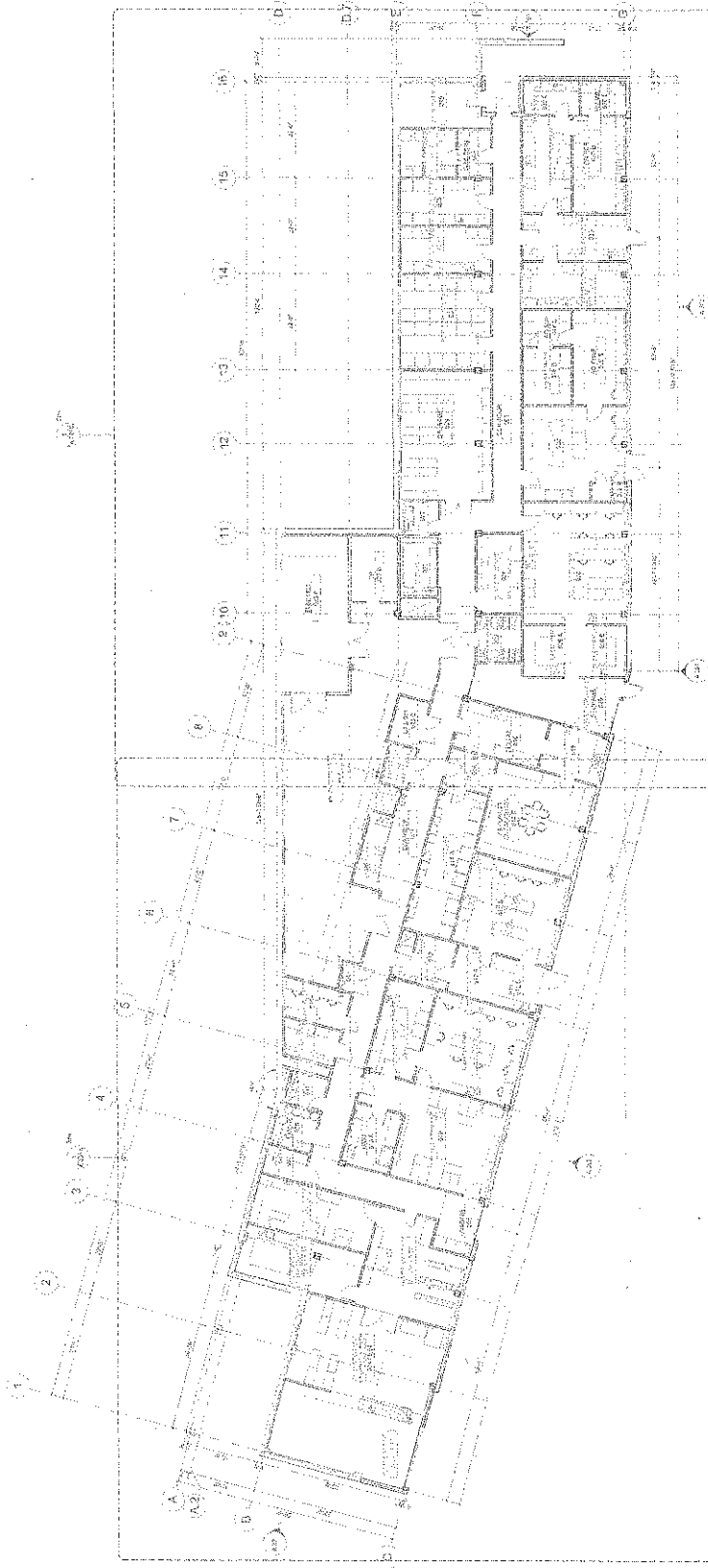
DATE: 05/29/15
DRAWN BY: JLD
CHECKED BY: JLD



KEY PLAN

FIRST FLOOR PLAN

A 001



1 FIRST FLOOR PLAN



VERMONT

STATE OF VERMONT
AGENCY OF AGRICULTURE
AND NATURAL RESOURCES
COLLABORATIVE
LABORATORY

CANYON CENTER

1. PROJECT NAME: CANYON CENTER
2. PROJECT LOCATION: 1000 CANYON CENTER DRIVE, SUITE 100, BURLINGTON, VT 05401
3. PROJECT TYPE: COMMERCIAL BUILDING
4. PROJECT OWNER: CANYON CENTER LLC
5. PROJECT ARCHITECT: SCHEIDT & PARTNERS, P.C.
6. PROJECT ENGINEER: SCHEIDT & PARTNERS, P.C.
7. PROJECT DATE: 01/28/2015

SCHEIDT & PARTNERS, P.C.
01/28/2015

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6. PROJECT ENGINEER: SCHEIDT & PARTNERS, P.C.
7. PROJECT DATE: 01/28/2015

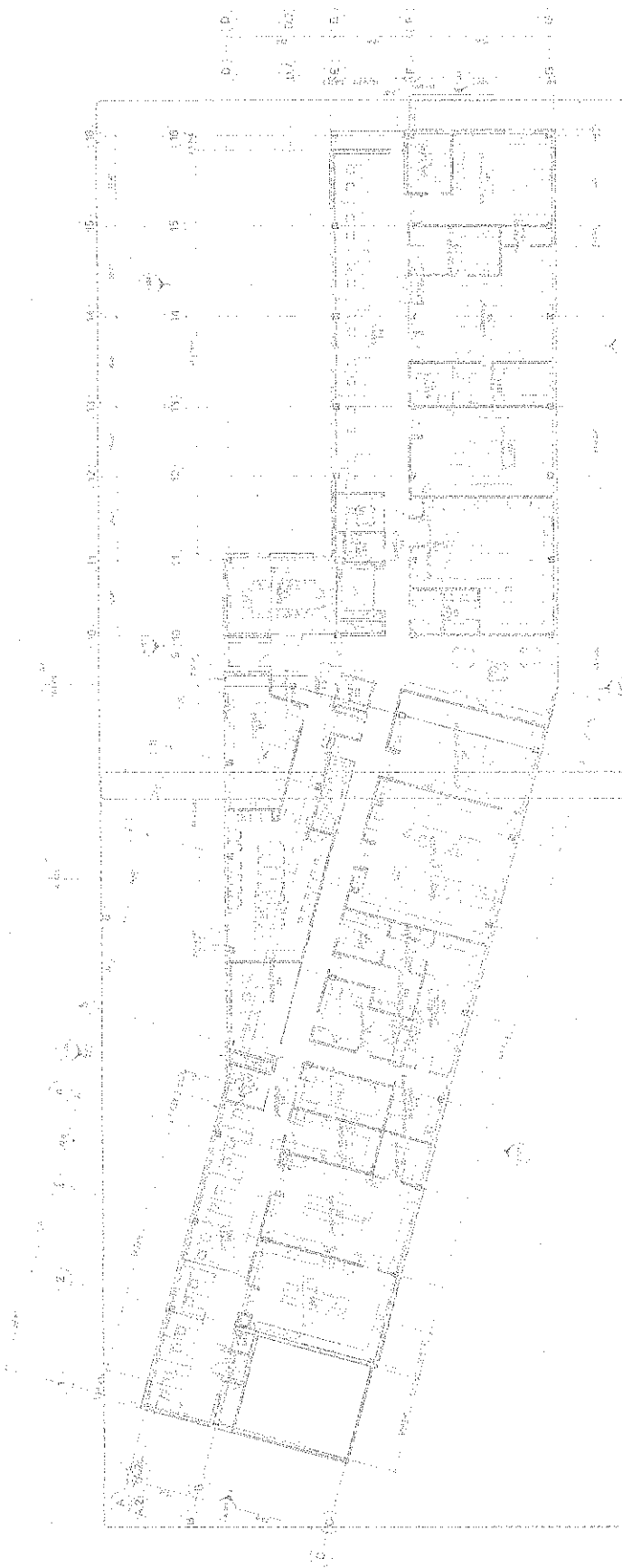
SCHEIDT & PARTNERS, P.C.
01/28/2015

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01/28/2015

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6. PROJECT ENGINEER: SCHEIDT & PARTNERS, P.C.
7. PROJECT DATE: 01/28/2015

SCHEIDT & PARTNERS, P.C.
01/28/2015



1. SECOND FLOOR PLAN
2. SCALE: 1/8" = 1'-0"

ATTACHMENT 8

01/28/2015
SCHEIDT & PARTNERS, P.C.
01/28/2015



STATE OF VERMONT
AGENCIES OF AGRICULTURE
AND NATURAL RESOURCES
COLLINSVILLE
LABORATORY

CANNON DESIGN

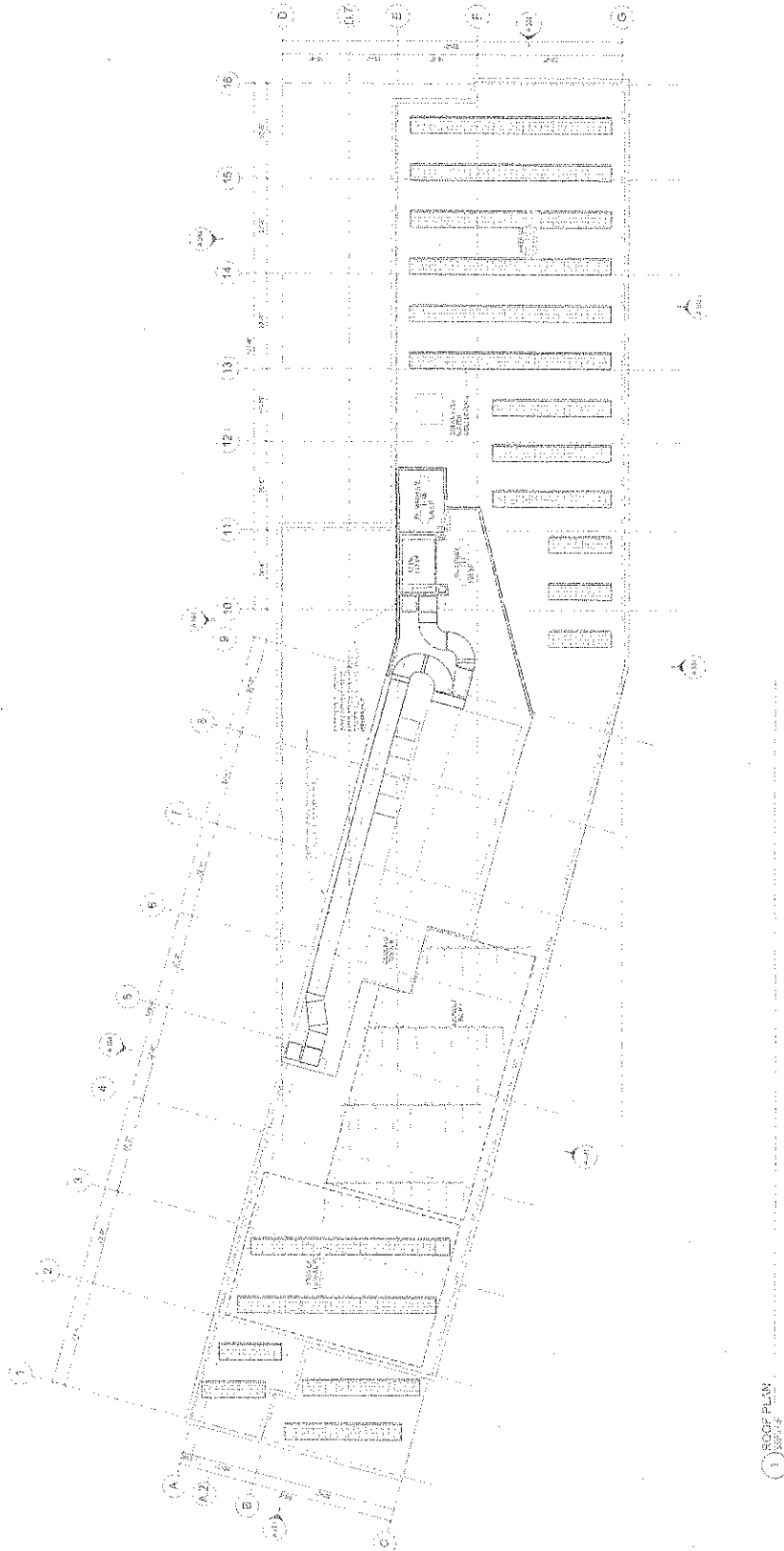
PROJECT: VERMONT STATE COLLEGE
LOCATION: COLLEGE AVENUE
DATE: MAY 2015
DRAWN BY: J. CANNON
CHECKED BY: J. CANNON
APPROVED BY: J. CANNON
SCALE: 1/8" = 1'-0"

SCHEMATIC DESIGN
MAY 2015

REV. 1/15

ROOF PLAN

A 102



1. ROOF PLAN
1/8" = 1'-0"



STATE OF VERMONT
AGENCIES OF AGRICULTURE
AND NATURAL RESOURCES
COLLABORATIVE
LABORATORY

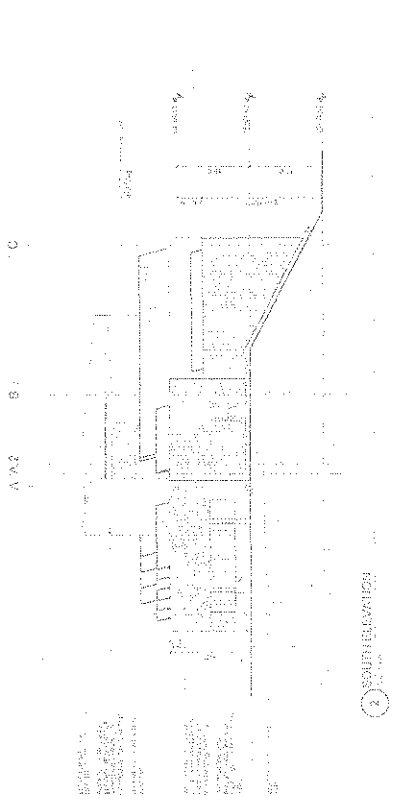
CANNON DESIGN

ARCHITECT
1000 W. MAIN ST.
SUITE 100
BURLINGTON, VT 05401
TEL: 802.255.1234
WWW.CANNONDESIGN.COM
PROJECT NO. 15-001
DATE: 05/20/2015

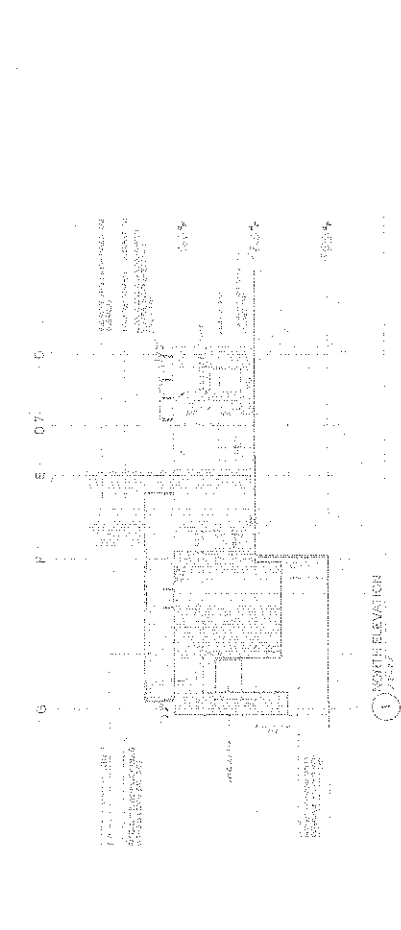
SCHEMATIC DESIGN
MAY 20, 2015

BUILDING ELEVATIONS

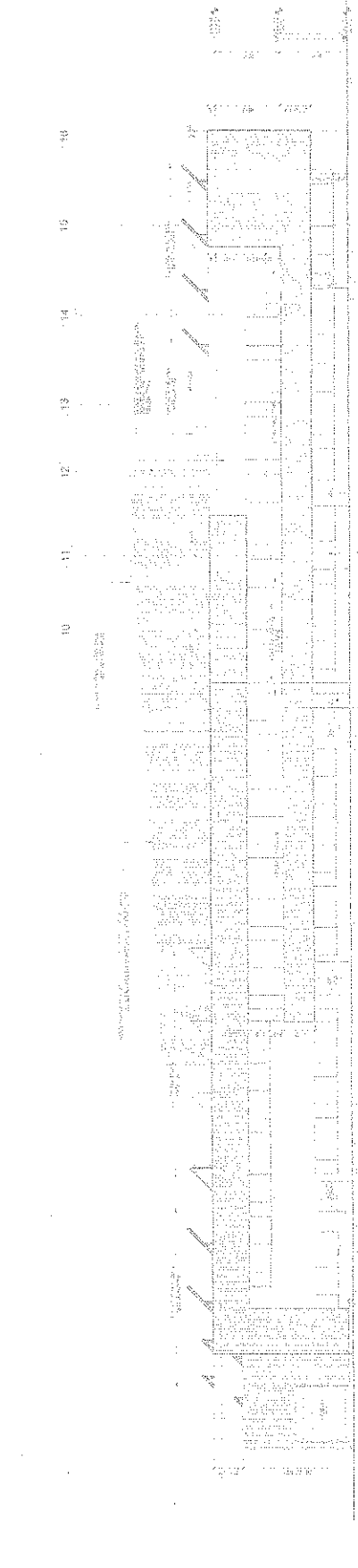
A301



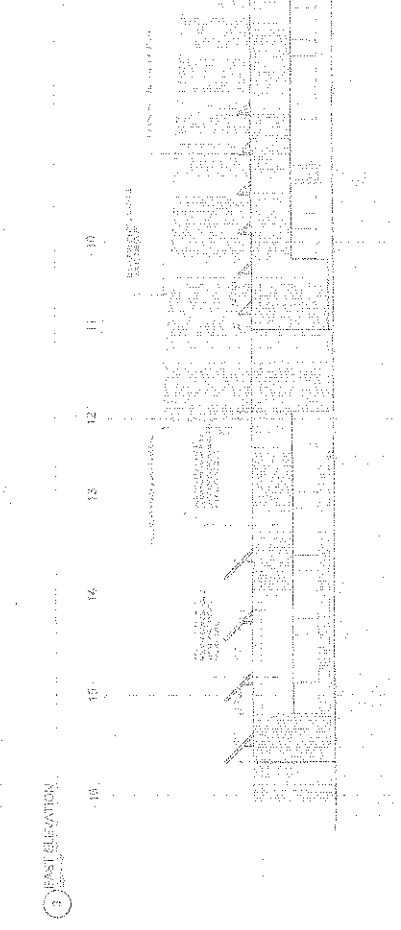
1 NORTH ELEVATION



3 EAST ELEVATION



2 SOUTH ELEVATION



4 WEST ELEVATION

No. 26. An act relating to capital construction and State bonding.

(H.492)

It is hereby enacted by the General Assembly of the State of Vermont:

* * * Capital Appropriations * * *

Sec. 1. LEGISLATIVE INTENT

(a) It is the intent of the General Assembly that of the \$157,207,752.00 authorized in this act, no more than \$84,688,449.00 shall be appropriated in the first year of the biennium, and the remainder shall be appropriated in the second year.

(b) It is the intent of the General Assembly that in the second year of the biennium, any amendments to the appropriations or authorities granted in this act shall take the form of a Capital Construction and State Bonding Adjustment Act. It is the intent of the General Assembly that unless otherwise indicated, all appropriations in this act are subject to capital budget adjustment.

Sec. 2. STATE BUILDINGS

(a) The following sums are appropriated to the Department of Buildings and General Services, and the Commissioner is authorized to direct funds appropriated in this section to the projects contained in this section: however, no project shall be canceled unless the Chairs of the Senate Committee on Institutions and the House Committee on Corrections and Institutions are notified before that action is taken.

(b) The following sums are appropriated in FY 2016:

<u>(1) Statewide, asbestos:</u>	<u>\$50,000.00</u>
<u>(2) Statewide, building reuse and planning:</u>	<u>\$75,000.00</u>
<u>(3) Statewide, contingency:</u>	<u>\$100,000.00</u>
<u>(4) Statewide, elevator repairs and replacement:</u>	<u>\$100,000.00</u>
<u>(5) Statewide, major maintenance:</u>	<u>\$8,210,287.00</u>
<u>(6) Statewide, BGS engineering and architectural project costs:</u>	<u>\$3,567,791.00</u>
<u>(7) Statewide, physical security enhancements:</u>	<u>\$200,000.00</u>
<u>(8) Burlington, 32 Cherry Street, HVAC controls upgrades:</u>	<u>\$150,000.00</u>
<u>(9) Burlington, 108 Cherry Street, garage and structural audit:</u>	<u>\$50,000.00</u>
<u>(10) Montpelier, 120 State Street, life safety and infrastructure improvements:</u>	<u>\$300,000.00</u>
<u>(11) Montpelier, Department of Labor, parking lot expansion:</u>	<u>\$400,000.00</u>
<u>(12) Middlesex, State Archives, renovations:</u>	<u>\$660,000.00</u>
<u>(13) Newport, Northern State Correctional Facility, maintenance shop:</u>	<u>\$450,000.00</u>

(14) Randolph, Agency of Agriculture, Food and Markets and Agency of Natural Resources, collaborative laboratory, finalizing design and construction documents, bid proposal, and permitting: \$2,500,000.00

(15) Southern State Correctional Facility, construction of Phase I of the steamline replacement, design and cost estimation for Phase II:
\$1,200,000.00

(16) Southern State Correctional Facility, copper waterline replacement and project-related costs: \$1,829,086.00

(17) St. Johnsbury, Caledonia Courthouse, stabilize foundation:
\$1,700,000.00

(18) Pittsford, Training Center, electrical system upgrade:
\$120,000.00

(19) Waterbury State Office Complex, complex restoration, and project-related costs: \$19,151,826.00

(20) White River Junction, Windsor Courthouse, design and planning for mechanical, electrical and plumbing, security and energy upgrades:
\$300,000.00

(21) Colchester, Woodside Juvenile Rehabilitation Center, project design and planning, and begin repairs and improvements:
\$200,000.00

(c) The following sums are appropriated in FY 2017:

(1) Statewide, asbestos: \$50,000.00

<u>(2) Statewide, building reuse and planning:</u>	<u>\$75,000.00</u>
<u>(3) Statewide, contingency:</u>	<u>\$100,000.00</u>
<u>(4) Statewide, elevator repairs and replacement:</u>	<u>\$100,000.00</u>
<u>(5) Statewide, major maintenance:</u>	<u>\$8,000,000.00</u>
<u>(6) Statewide, BGS engineering and architectural project costs:</u>	<u>\$3,677,448.00</u>
<u>(7) Statewide, physical security enhancements:</u>	<u>\$200,000.00</u>
<u>(8) Montpelier, 115 State Street, State House lawn, access improvements and water intrusion:</u>	<u>\$300,000.00</u>
<u>(9) Montpelier, 120 State Street, life safety and infrastructure improvements:</u>	<u>\$1,000,000.00</u>
<u>(10) Randolph, Agency of Agriculture, Food and Markets and Agency of Natural Resources, collaborative laboratory, site construction:</u>	<u>\$14,048,174.00</u>
<u>(11) Southern State Correctional Facility, copper waterline replacement:</u>	<u>\$1,100,000.00</u>
<u>(12) Pittsford, Training Center, electrical system upgrade:</u>	<u>\$500,000.00</u>
<u>(13) Statewide, strategic building realignments:</u>	<u>\$300,000.00</u>
<u>(d) Any funds remaining from the amount appropriated in subdivision (b)(19) for restoration and projected-related costs at the Waterbury State Office Complex shall be directed toward the beginning phases of design and fit up of the Weeks and Hanks buildings.</u>	

<u>Appropriation – FY 2016</u>	<u>\$41,313,990.00</u>
<u>Appropriation – FY 2017</u>	<u>\$29,450,622.00</u>
<u>Total Appropriation – Section 2</u>	<u>\$70,764,612.00</u>

Sec. 3. ADMINISTRATION

(a) The following sums are appropriated to the Department of Taxes for the Vermont Center for Geographic Information for an ongoing project to update statewide quadrangle maps through digital orthophotographic quadrangle mapping:

- (1) \$125,000.00 is appropriated in FY 2016.
- (2) \$125,000.00 is appropriated in FY 2017.

(b) The following sums are appropriated to the Department of Finance and Management for the ERP expansion project (Phase II):

- (1) \$5,000,000.00 is appropriated in FY 2016.
- (2) \$9,267,470.00 is appropriated in FY 2017.

(c) The sum of \$5,463,211.00 is appropriated in FY 2017 to the Agency of Human Services for the Health and Human Services Enterprise IT System.

<u>Appropriation – FY 2016</u>	<u>\$5,125,000.00</u>
<u>Appropriation – FY 2017</u>	<u>\$14,855,681.00</u>
<u>Total Appropriation – Section 3</u>	<u>\$19,980,681.00</u>

* * * Policy * * *

* * * Buildings and General Services * * *

Sec. 23. LEASING PROPERTY; FAIR MARKET VALUE

(a) It is the intent of the General Assembly that any leases for State-owned space in any State-owned building, structure, or other real property under the jurisdiction of the Commissioner of Buildings and General Services that are in existence prior to the effective date of this act shall be renewed at fair market value by July 1, 2019.

(b) The Commissioner of Buildings and General Services shall evaluate whether to sell any State-owned building, structure, or other real property that is being leased under fair market value.

Sec. 23a. LEASING PROPERTY; WINDSOR; SOLAR PROJECT

The Commissioner of Buildings and General Services may lease at fair market value, for a term not exceeding 35 years, any real property owned by the State for a solar project at the Southeast State Correctional Facility and surrounding lands in Windsor, Vermont.

Sec. 24. AGENCY OF AGRICULTURE, FOOD AND MARKETS AND
AGENCY OF NATURAL RESOURCES LABORATORY

Notwithstanding the authority contained in 29 V.S.A. § 164, the Department of Buildings and General Services shall enter into a ground lease or other similar legal instrument with Vermont Technical College for the purpose of locating the Agency of Agriculture, Food and Markets and Agency

of Natural Resources' collaborative laboratory on the Vermont Technical College campus in Randolph, Vermont.

Sec. 24a. 29 V.S.A. § 161(b) is amended to read:

(b) Each contract awarded under this section for any State project with a construction cost exceeding \$100,000.00 and which is authorized or funded in whole or in part by a capital construction act pursuant to 32 V.S.A. § 701a, ~~including such a project of the University of Vermont and State Agricultural College and of the Vermont State Colleges,~~ shall provide that all construction employees working on the project shall be paid no less than the mean prevailing wage published periodically by the Vermont Department of Labor in its occupational employment and wage survey plus an additional fringe benefit of 42 and one-half percent of wage, as calculated by the current Vermont prevailing wage survey. As used in this section, "fringe benefits" means benefits, including paid vacations and holidays, sick leave, employer contributions and reimbursements to health insurance and retirement benefits, and similar benefits that are incidents of employment.

Sec. 24b. 29 V.S.A. § 161(b) is amended to read:

(b) Each contract awarded under this section for any State project with a construction cost exceeding \$100,000.00 ~~and~~ or a construction project with a construction cost exceeding \$200,000.00 which is authorized ~~or~~ and is at least 50 percent funded in whole or in part by a capital construction act pursuant to 32 V.S.A. § 701a shall provide that all construction employees working on the

Acts and Resolves No. 51, Sec. 2(c)(17), as amended by 2014 Acts and Resolves No. 178, Sec. 1, to retain consultant services.

Sec. 47. INTERNATIONAL ROLL CALL PROGRAM; UPGRADES

(a) The Office of Legislative Council is authorized to retain consultant services to upgrade the legislative international roll call (IRC) program, as approved by the Legislative Staff Information Systems Team established in 2 V.S.A. § 753.

(b) The Legislative Staff Information Systems Team shall determine the management and oversight structure for the work authorized in subsection (a) of this section prior to the Office of Legislative Council executing a contract to hire the consultant. The Office of Legislative Council is authorized to use funds appropriated in Sec. 20 of this act to retain consultant services; provided, however, that no funds shall become available until the Legislative Staff Information Systems Team approves the contract, and management and oversight structure for the project.

* * * Effective Dates * * *

Sec. 48. EFFECTIVE DATES

This act shall take effect on passage, except that:

- (1) Sec. 24b shall take effect on July 1, 2017; and
- (2) Sec. 24d shall take effect on July 1, 2016.

Date Governor signed bill: May 18, 2015

LEVEL 2 ELEMENTAL SUMMARY				
	Subelement \$	\$/sf	\$/sf	Element \$
GROSS FLOOR AREA				30,483 sf
A1 SUBSTRUCTURE		20.51		748,208
A2 STRUCTURE		33.21		1,211,635
A3 ENCLOSURE		77.73		2,898,147
B1 PARTITIONS & DOORS		21.92		769,627
B2 FINISHES		15.44		653,275
B3 FITTINGS & EQUIPMENT		50.55		1,844,504
C1 MECHANICAL		131.85		4,810,814
C2 ELECTRICAL		58.94		2,183,642
D1 SITE WORK		41.21		1,603,716
DIRECT CONSTRUCTION COST		451.36		15,429,165
Z1 GENERAL REQUIREMENTS		58.68		2,140,861
Z2 CONTINGENCIES		49.65		1,811,458
Z3 OTHER COSTS		0.00		0
TOTAL CONSTRUCTION COST		559.68		20,420,525

Note: This is the whole scope at the end of schematic phase. Several options were later declined; see Attachment 13.

BASE BUILDING COSTS			Potential
Item	Description		Add Backs
	SD estimate (V12 - 5/29/15)	\$20,420,525	
1	Double glazing ILO triple glazing	\$63,000	
2	Reduce glazing by 20%	\$23,614	✓
3	Main source of cooling - Packaged Rooftop DX, code-min 9.5 EER. Delete chiller, cooling tower, CHW and CW piping, pumps and accessories, including secondary CHW supply for chilled beams.	\$358,000	✓
4	DHW heating - Steam/DHW heater; No Solar DHW heating. Omit array, storage tank and heat exchangers.	\$62,000	
5	HVAC system - All-air VAV with reheat. Estimated AHU size = 45,000 cfm. Delete Chilled Beams and secondary CHW piping.	\$62,000	✓
6	Energy recovery wheel - Omit wheel and exhaust air filters.	\$43,000	✓
7	Downgrade to fluorescent in 50% of building	\$70,000	✓
8	Local UPS ILO central UPS (deduct lower floor only)	\$20,000	
9	In addition, eliminate upper level UPS	\$54,000	✓
10	Switch to all exposed ceilings (keep 10% in at lobby areas) - add in higher density fireproofing and painting of deck and mep services	\$168,000	✓
11	Exterior cladding - fiber cement panels ILO wood veneer panels	\$176,000	
12	Exerior cladding - additional savings if use economy brick ILO fiber cement	\$118,000	
13	Punched aluminum windows ILO stick built curtainwall - same quantity of glazing	\$154,000	
14	Composite concrete deck at roof at AHU only (eliminate all other conc. decks)	\$102,000	
	Total deductions to achieve base building (contingencies built in)	\$1,473,614	

Note: Building cost after all SD-phase cuts Base Building Cost **\$18,946,911**

POSSIBLE ADDS

Grey water system

✓

Green roof over bump out's lower roof

✓

LEED certification

✓

Note: December 2014 COW incl heat plant was \$19,894,251

Less heat plant = \$18,810,777

Calculator for Lab Project Cost, 28 December 2015

v12 Verneuilens Construction Cost			\$ 18,946,911
Direct Cost		\$	15,279,767
General Requirements*	10%	\$	1,527,977
CM Fee	3%	\$	458,393
Design Contingency	6.5%	\$	993,185
Escalation Contingency	4.5%	\$	687,590

Alternates Selected			\$ 2,994,352
20% more glazing		\$	23,614
High Performance HVAC		\$	463,000
LED Lighting		\$	70,000
UPS for upstairs only		\$	54,000
Partial green roof		\$	217,400
Stand-alone heat plant		\$	1,960,568
Grey water system		\$	37,800
100% covered ceilings		\$	168,000
TOTAL COST OF CONSTRUCTION			\$ 21,941,293

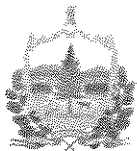
BGS Soft Costs			
Design Contracts (orig. 10%)	7%	\$	1,582,294
Cannon (A/E)		\$1,458,000	
CEA (sites)		\$	44,100
K & L (survey)		\$	16,710
Mike's (borings)		\$	15,136
Wheeler (wetlands)		\$	1,644
Knight Engrs (borings)		\$	494
STIX (wood expert)		\$	25,000
Miscellaneous		\$	11,210
Permitting Contracts	0%	\$	53,350
NEPA & 250 consultant		\$	43,350
Traffic study		\$	10,000
Admin & Inspections	2%	\$	415,000
Special Inspections		\$	100,000
Clerk of Works		\$	150,000
Submittal Exchange		\$	15,000
Commissioning Agent		\$	150,000
Construction Contingency	7%	\$	1,513,949
Final fit up	1%	\$	110,000
Cubicles		\$	50,000
Art in State Buildings		\$	60,000
TOTAL SOFT COSTS			\$ 3,674,593

TOTAL PROJECT COST **\$ 25,615,886**

*General Requirements includes contractor bonding & insurance (performance & bid, and liability, fire, theft, risk)

** Lab plant direct costs: see worksheet sheet 2.

***Vermont's prevailing wages, including benefits, have been accounted for.



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Justin Johnson, Secretary

January 4, 2016

Mr. Paul Ford
Acting Regional Administrator (RA)
FEMA, Region 1
99 High Street, Boston MA

Mr. Robert Grimley
Director, Recovery Division
FEMA, Region 1
99 High Street, Boston MA

Re: Update: for Sandy Recovery and Improvement Act (SRIA) Alternative Procedures Pilot Program; FEMA-4022-DR-VT-PW-03237(2) Ag Laboratory; Applicant - Vermont Department of Buildings and General Services-BGS

Dear Mr. Ford and Mr. Grimley,

The purpose of this letter with regard to the referenced project worksheet, is to provide an update to the progress since my original submittal (see *letter from GAR, dated March 30, 2015* – Attachment A). That letter addressed an update to the progress of the project since May 2014; a request for an Improved Project; and a request for Time Extension.

Update:

Since May 29, 2013, the Vermont General Assembly has made the following relevant appropriations to the Applicant (Dep't of Buildings and General Services): \$100,000 for FY 2014 via 2014 No. 51, § 2(b)(17); \$300,000 for FY 2015 via 2014 (Adj. Sess.) No. 178, § 1 (amending 2014 No. 51 to add § 2(c)(12)); \$2.5M for FY 2016 via 2015 No. 26, § 2(b)(14); and an anticipated \$14.048M for FY2017 via 2015 No. 26, § 2(c)(10). Further, the Applicant intends to request an additional \$7.1M for FY 2018. The anticipated total project cost is \$25.6M. Of that, the anticipated contribution from FEMA, is \$1,607,110.20 less the State's share of \$1,785,678.

To date, the Applicant has initiated design development and completed a schematic design for a new collaborative laboratory; and has initiated permitting and the Environmental Assessment (EA) process with assistance from DuBois and King, the selected environmental consultant contractor for the Agencies of Agriculture and Natural Resources.

The Applicant entered into a FEMA PA Sandy Recovery and Improvement Act (SRIA) Alternative Procedures Pilot Program permanent work subgrant, based on a fixed cost estimate in the amount of \$1,802,288 (subgrant number PA-01-VT-4022-PW-03237). This was derived as: \$1,785,678 (Hazard Mitigation) + \$16,610 (Direct Administrative Costs (DAC)) = \$1,802,288. Please note that the since that time, the Direct Administrative Costs (DAC) were waived by the State of Vermont (see *letter from GAR dated September 30, 2015* – Attachment B), thus reducing the fixed cost estimate by \$16,610, to \$1,785,678.

Additional documents intended as supplemental to the original submittal on March 28, 2015 for *Project Worksheet #3237(2); Ag Laboratory SRIA Fixed Cost Estimate: FEMA-4022-DR-VT* are included with this letter.

The Vermont Department of Public Safety, Division of Emergency Management/Homeland Security (DEMHS), acting through the Grantee, Vermont Agency of Transportation (VTrans), received the Applicant's request for an Improved



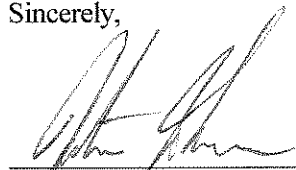
Project and Time Extension for Project Worksheet #3237(2) - Ag Laboratory. DEMHS, acting on behalf of the Grantee (VTrans) supported this request for Improved Project and Time Extension and requested approval by FEMA Region 1 (see *letter from GAR, dated March 28, 2015* – Attachment C). DEMHS has since received approval for the Time Extension (to June 30, 2018) and conditional approval for the Improved Project (see *letter from FEMA, George F. Vanderschmidt, dated October 19, 2015* – Attachment D). This letter serves as official notification to the Applicant that the Time Extension is hereby effectuated through June 30, 2018 and that the following must be completed in order to secure approval from the FEMA Region 1 Regional Administrator for the Improved Project, currently identified as version 2 of the Project Worksheet #3237(2) - Ag Laboratory (see *Project Worksheet #03237(2)* – Attachment E).

It is understood that DEMHS has presented the necessary supportive documentation provided by the Applicant in the original submittal dated March 30, 2015 and with this supplemental package.

Per Part III – Conclusion (page 7), of the October 19, 2015 letter from George F. Vanderschmidt, the conditional approval is in effect until the Applicant 1) Completes an Environmental Assessment (EA) with FEMA - which is currently in-progress, and a successful completion is anticipated; and 2) provide documentation that the proposed scope of work provides at least the same flood protection as the hazard mitigation measures in the original PW - This documentation is included on Attachments #1 and #5 of the attached supplemental documentation. Once the EA is completed to the satisfaction of FEMA Region 1, all requirements for Final Approval should be met.

As the Governor's Authorized Representative (GAR), I am requesting on behalf of the Applicant (BGS), and through DEMHS, FEMA's acceptance of these supplemental documents as meeting conditional item #2 - *Flood protection* and the anticipated completion of conditional approval item #1 - *EA* (currently in-progress) constituting Final Approval for the referenced Improved Project, with sufficient time to allow the Applicant to meet their anticipated construction completion goal of June 30, 2018 (see *Project Timeline*, from original submittal identified as attachment #19 – but here identified as Attachment F).

Sincerely,



Justin Johnson, Secretary
Vermont Agency of Administration
Governor's Authorized Representative (GAR)

Cc via e-mail:

Michael Obuchowski, Commissioner
Vermont Dept. Buildings and General Services (BGS)

Sandra Vitzthum, LEED AP
Project Manager II
Vermont Dept. Buildings and General Services (BGS)

January 4, 2015

Mr. Paul Ford
Acting Regional Administrator (RA)
FEMA, Region 1
99 High Street, Boston MA

Mr. Robert Grimley
Director, Recovery Division
FEMA, Region 1
99 High Street, Boston MA

Re: Update: for Sandy Recovery and Improvement Act (SRIA) Alternative Procedures Pilot Program;
FEMA-4022-DR-VT-PW-03237(2) Ag Laboratory; Applicant - Vermont Department of Buildings and
General Services-BGS

Dear Mr. Ford and Mr. Grimley,

The purpose of this letter with regard to the referenced project worksheet, is to provide an update to the progress since my original submittal (see *letter from GAR, dated March 30, 2015 – Attachment A*). That letter addressed an update to the progress of the project since May 2014; a request for an Improved Project; and a request for Time Extension.

Update:

Since May 29, 2013, the Vermont General Assembly has made the following relevant appropriations to the Applicant (Dep't of Buildings and General Services): \$100,000 for FY 2014 via 2014 No. 51, § 2(b)(17); \$300,000 for FY 2015 via 2014 (Adj. Sess.) No. 178, § 1 (amending 2014 No. 51 to add § 2(c)(12)); \$2.5M for FY 2016 via 2015 No. 26, § 2(b)(14); and an anticipated \$14.048M for FY2017 via 2015 No. 26, § 2(c)(10). Further, the Applicant intends to request an additional \$8.652M for FY 2018. The anticipated total is \$25.6M. Of that, the anticipated contribution from FEMA, is \$1,785,678.

To date, the Applicant has initiated design development and completed a schematic design for a new collaborative laboratory; and has initiated permitting and the Environmental Assessment (EA) process with assistance from DuBois and King, the selected environmental consultant contractor for the Agencies of Agriculture and Natural Resources.

The Applicant entered into a FEMA PA Sandy Recovery and Improvement Act (SRIA) Alternative Procedures Pilot Program permanent work subgrant, based on a fixed cost estimate in the amount of \$1,802,288 (subgrant number PA-01-VT-4022-PW-03237). This was derived as: \$1,785,678 (Hazard Mitigation) + \$16,610 (Direct Administrative Costs (DAC)) = \$1,802,288. Please note that the since that time, the Direct Administrative Costs (DAC) were waived by the State of Vermont (see *letter from GAR dated September 30, 2015 – Attachment B*), thus reducing the fixed cost estimate by \$16,610, to \$1,785,678.

Additional documents intended as supplemental to the original submittal on March 28, 2015 for *Project Worksheet #3237(2); Ag Laboratory SRIA Fixed Cost Estimate: FEMA-4022-DR-VT* are included with this letter.

The Vermont Department of Public Safety, Division of Emergency Management/Homeland Security (DEMHS), acting through the Grantee, Vermont Agency of Transportation (VTrans), received the

Applicant's request for an Improved Project and Time Extension for Project Worksheet #3237(2) - Ag Laboratory. DEMHS, acting on behalf of the Grantee (VTrans) supported this request for Improved Project and Time Extension and requested approval by FEMA Region I (see *letter from GAR, dated March 28, 2015* – Attachment C). DEMHS has since received approval for the Time Extension (to June 30, 2018) and conditional approval for the Improved Project (see *letter from FEMA, George F. Vanderschmidt, dated October 19, 2015* – Attachment D). This letter serves as official notification to the Applicant that the Time Extension is hereby effectuated through June 30, 2018 and that the following must be completed in order to secure approval from the FEMA Region I Regional Administrator for the Improved Project, currently identified as version 2 of the Project Worksheet #3237(2) - Ag Laboratory (see *Project Worksheet #03237(2)* – Attachment E).

It is understood that DEMHS has presented the necessary supportive documentation provided by the Applicant in the original submittal dated March 30, 2015 and with this supplemental package.

Per Part III – Conclusion (page 7), of the October 19, 2015 letter from George F. Vanderschmidt, the conditional approval is in effect until the Applicant 1) Completes an Environmental Assessment (EA) with FEMA - which is currently in-progress, and a successful completion is anticipated; and 2) provide documentation that the proposed scope of work provides at least the same flood protection as the hazard mitigation measures in the original PW - This documentation is included on Attachments #1 and #5 of the attached supplemental documentation. Once the EA is completed to the satisfaction of FEMA Region I, all requirements for Final Approval should be met.

As the Governor's Authorized Representative (GAR), I am requesting on behalf of the Applicant (BGS), and through DEMHS, FEMA's acceptance of these supplemental documents as meeting conditional item #2 - *Flood protection* and the anticipated completion of conditional approval item #1 - *EA* (currently in-progress) constituting Final Approval for the referenced Improved Project, with sufficient time to allow the Applicant to meet their anticipated construction completion goal of June 30, 2018 (see *Project Timeline*, from original submittal identified as attachment #19 – but here identified as Attachment F).

Sincerely,

Justin Johnson, Secretary
Vermont Agency of Administration
Governor's Authorized Representative (GAR)

Cc via e-mail:
Michael Obuchowski, Commissioner
Vermont Dept. Buildings and General Services (BGS)

Sandra Vitzthum, LEED AP
Project Manager II
Vermont Dept. Buildings and General Services (BGS)



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Justin Johnson, Secretary

March 30, 2015

Mr. Paul Ford
Acting Regional Administrator (RA)
FEMA, Region 1
99 High Street, Boston MA

Mr. Robert Grimley
Director, Recovery Division
FEMA, Region 1
99 High Street, Boston MA

Re: *Update, Improved Project Request and Period of Performance Extension Request: for Sandy Recovery and Improvement Act (SRIA) Alternative Procedures Pilot Program; FEMA-4022-DR-VT-PW-03237 Ag Laboratory; Applicant - Vermont Department of Buildings and General Services-BGS;*

Dear Mr. Ford and Mr. Grimley,

The purpose of this letter is three-fold with regard to the referenced project worksheet: 1.) To provide an update to the progress since May 2014; 2.) To request an Improved Project; and 3.) To request an Extension to the Period of Performance from September 1, 2015 to June 30, 2018.

Update:

Since May 2014, the Applicant (Building and General Services-BGS) has acted upon an appropriation by the Vermont Legislature to select a site, select an architect, complete programming, and produce a conceptual design for a new collaborative laboratory for the Agencies of Agriculture and Natural Resources. These aspects are outlined in pages 1-3 of the January 30, 2015 letter: *"Update, Improved Project Requests and Period of Performance Extension Request: for Project Worksheet #3237; Ag Laboratory SRIA Fixed Cost Estimate: FEMA-4022-DR-VT"* (attached).

Request for Improved Project:

The Vermont Department of Public Safety, Division of Emergency Management/Homeland Security (DEMHS), acting through the Grantee, Vermont Agency of Transportation (VTrans), is in receipt of the Applicant's request for an Improved Project for Project Worksheet #3237 - Ag Laboratory. DEMHS, acting on behalf of the Grantee (VTrans) supports this request for Improved Project and requests approval by FEMA Region 1 (attached).

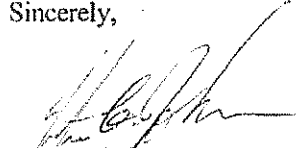
Request for Extension to the Period of Performance

DEMHS is in receipt of the Applicant's request for a Period of Performance Extension Request: for Project Worksheet #3237 - Ag Laboratory. DEMHS, acting on behalf of the Grantee (VTrans) supports this request for Extension to the Period of Performance and requests approval by FEMA Region 1 (attached).



As the Governor's Authorized Representative (GAR), I am requesting on behalf of the Applicant (BGS), and through DEMHS, FEMA's approval for the referenced Improved Project and also the associated extension to the current Period of Performance (both submitted under this cover). This will allow the Applicant to meet their anticipated construction goal of June 30, 2018. It is understood that DEMHS has presented all the necessary supportive documentation in this submittal for FEMA's review and anticipated approval.

Sincerely,



Justin Johnson, Secretary
Vermont Agency of Administration
Governor's Authorized Representative (GAR)

cc via e-mail:

Michael Obuchowski, Commissioner
Vermont Dept. Buildings and General Services (BGS)

Sandra Vitzthum, LEED AP
Project Manager II
Vermont Dept. Buildings and General Services (BGS)



Attachment B

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[fax] 802-828-3320

Justin Johnson, Secretary

September 30, 2015

Mr. Paul Ford
Acting Regional Administrator (RA)
FEMA, Region 1
99 High Street, Boston MA

Mr. Robert Grimley
Director, Recovery Division
FEMA, Region 1
99 High Street, Boston MA

Re: DR4022 - Tropical Storm Irene; State of Vermont's Notification to FEMA Region 1 to Waive Direct Administrative Costs (DAC) Related to the Waterbury State Office Complex (WSOC) Project Worksheets (PWs) and refund all DAC funds paid to Vermont for WSOC PWs

Dear Mr. Ford and Mr. Grimley,

The purpose of this letter is intended to address Direct Administrative Costs (DAC) associated with the referenced WSOC Project Worksheets. Through this formal notification to FEMA Region 1, the State of Vermont is waiving all claims to reimbursements for Direct Administrative Costs (DAC) for each of the respective PWs written for the WSOC (see attached - WSOC PW Tracker with payments - revised 9/15/2015); and intends to refund all DAC funds paid to Vermont.

Update:

The State is pleased to note that it has recently reached a final settlement with its carrier Lexington Insurance for all insurable losses. The documentation was presented in the form of an expansive spreadsheet provided to the State by Lexington. A copy was provided to FEMA.

The State Division of Emergency Management/ Homeland Security (DEMHS) staff has worked with representatives of FEMA Region 1 to discuss the referenced items, most recently meeting with John McGough and Brian Minns on September 2, 2015. The goal of those discussions was to clarify issues necessary to begin the close-out of the WSOC Project Worksheets.

It is the State's intent to first close out any Large Project PWs which are complete, followed by the "Small Projects". The State staff is already at work reconciling the PWs against their respective invoices and further individually against the insurance settlement and compiling relevant supportive documentation.

Next Steps:

In order to effectively close out the WSOC PWs in a timely manner, the purpose of this letter as detailed above must first be addressed. To that end, the following item is being relayed for your information and approval:



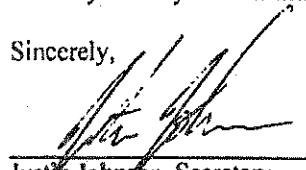
The State Waives Claims to Direct Administrative Costs (DAC) for WSOC-related PWs (per attached spreadsheet):

As the Governor's Authorized Representative (GAR), and on behalf of the following Applicants:
[Department of Buildings and General Services (BGS), Agency of Agriculture, Food and Markets (AGR), Agency of Human Services (AHS), Agency of Natural Resources (ANR), Department for Children and Families (DCF), Department of Corrections (DOC), Department of Disabilities, Aging and Independent Living (DAIL), Department of Environmental Conservation (DEC), Department of Forests Parks and Recreation (FPR), Department of Health (DOH), Department of Human Resources (DHR), Department of Innovation and Information (DII), Department of Fish and Wildlife (F&W), Department of Mental Health (DMH) and Department of Public Safety (DPS)]
The State of Vermont is hereby waiving all claims to estimated and previously funded DAC funds. Those funds which have previously been funded to the State will be returned to FEMA.

This action will allow the State to move forward proactively towards the programmatic closeout date for DR4022 - Tropical Storm Irene of September 1, 2019. The State has presented the supportive documentation in this submittal for FEMA's review and anticipated approval of DAC reductions for all WSOC PWs. It is understood that the documentation presented and FEMA's response should be entered as amendments for each of the respective project worksheets (listed in the attached tables) into FEMA's EMMIE system for the DAC reductions and in preparation of the subsequent small project closeouts.

Thank you for your continued support in helping Vermont recover from Tropical Storm Irene.

Sincerely,



Justin Johnson, Secretary
Vermont Agency of Administration
Governor's Authorized Representative (GAR)

Cc via e-mail:
Michael Clasen, Deputy Secretary
Vermont Agency of Administration

Coleen Krauss
Financial Manager - Contract and Grants Unit
Finance & Administration Division
Vermont Agency of Transportation

Kimberly Canarecci
Public Assistance Officer
Division of Emergency Management / Homeland Security



Division of Emergency Management and Homeland Security
Vermont Department of Public Safety
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March 28, 2015

Mr. Paul Ford
Acting Regional Administrator (RA)
FEMA, Region I
99 High Street, Boston MA

Mr. Robert Grimley
Director, Recovery Division
FEMA, Region I
99 High Street, Boston MA

Re: FEMA-4022-DR-VT: Project Worksheet #3237; Ag Laboratory - Period of Performance Time Extension Request

Dear Mr. Ford and Mr. Grimley,

The Vermont Department of Public Safety, Division of Emergency Management/Homeland Security (DEMHS), acting on behalf of the Grantee, the Vermont Agency of Transportation (VTrans), is in receipt of the Applicant's (Building and General Services - BGS) request for a Time Extension for Project Worksheet #3237- Ag Lab. Specific details are found in the corresponding January 30, 2015 letter: *"Update, Improved Project Requests and Period of Performance Extension Request: for Project Worksheet #3237; Ag Laboratory SRIA Fixed Cost Estimate: FEMA-4022-DR-VT"* (page 3 and attachment 19 of the referenced document, included with this submittal).

On behalf of the Applicant, and VTrans, DEMHS requests an extension to the period of performance of PW #3237 from September 1, 2015 to **June 30, 2018** (PW #3237 attached).

The Applicant feels there were extenuating circumstances that were outside their and the State of Vermont's control which prevented or will prevent work on this project from being completed within its current period of performance. Specifically, the magnitude of Tropical Storm Irene (48 State buildings damaged in Waterbury) forced the State to phase repairs. The Ag Laboratory (Agriculture and Environmental Laboratory) project is the last major effort to repair this damage. The Vermont Legislature continues to approve and construct as quickly as is financially responsible, given restrictions to staff and bonding, as well as a seasonal legislative process. If the laboratory project is approved by the Vermont Legislature this spring, design may continue and construction should begin by mid-2016. The project is scheduled for completion by June 2018. (Attachment 19).

According to 44 C.F.R. §206.204, the Applicant must complete the scope of work within the period of performance set forth in PW #3237. The original deadline for completion was March 1, 2013. On July 22, 2013, DEMHS on behalf of the Grantee approved the Applicant's request to extend the period of performance to September 1, 2015. The reason for this first extension was similar: while the Applicant worked diligently to respond to the damage, there were many circumstances beyond its control. There were no provisions or conditions associated with the previous time extension, nor additional project costs anticipated due to the extension.

The Applicant does not anticipate an increased cost associated with a time extension. To the contrary, this extra time has allowed the architects, BGS, and the Agencies of Agriculture and Natural



**Division of Emergency Management and Homeland Security
Vermont Department of Public Safety**

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Resources to optimize the design, making it as efficient (and cost effective) as possible. This extra time has also allowed the team to explore alternate mechanical systems which will result in more sustainable and cost effective heating, air conditioning, and ventilation systems. Interim costs, such as rent for laboratory space, are anticipated to remain constant.

The Vermont Legislature has committed to replacing its Ag Lab (Agriculture and Environmental Laboratory). The details of fund allocation will be finalized by May 2015. The State of Vermont has ensured its share of the project is fully funded.

DEMHS has reviewed of all the documentation submitted by the Applicant and found it to be appropriate and complete and therefore supports the Applicant's request. This documentation is presented for review and approval by the FEMA Region 1 Regional Administrator for a Time Extension for PW #3237 to June 30, 2018 with change to that period of performance date in EMMIE.

Sincerely,

Kimberly Canarecci
Public Assistance Officer
Vermont Dept. of Public Safety
Division of Emergency Management and Homeland Security

Cc:
Michael Obuchowski, Commissioner
Vermont Dept. Buildings and General Services (BGS)

U.S. Department of Homeland Security
FEMA Region I
99 High Street
Boston, MA 02110



FEMA

October 19, 2015

Justin Johnson
Secretary
Governor's Authorized Representative
Vermont Agency of Administration
109 State Street
Montpelier, VT 05609-0201

Re: *FEMA-4022-DR-VT, Vermont Department of Buildings and General Services – Public Assistance (PA) ID 000-US9QN-00 – Project Worksheet (PW)-03237 – WSOC JWE E AG LAB – Improved Project and Time Extension Requests*

Dear Mr. Johnson:

I am responding to the Vermont Agency of Administration's letter of March 30, 2015, which transmitted an update to Project Worksheet ("PW") #3237 under major disaster declaration FEMA-4022-DR-VT. In addition, the Vermont Division of Emergency Management and Homeland Security ("DEMHS" or "Grantee") and the Vermont Department of Buildings and General Services ("Applicant") are requesting: 1) an improved project to relocate the Agricultural and Environmental Laboratory Building ("Ag Lab" or "facility") from the disaster site at the Waterbury State Office Complex ("WSOC") to a new location at the Vermont Technical College ("VTC") campus in Randolph, Vermont; and 2) an extension of the period of performance for PW #3237. As detailed below, the Applicant's proposed scope of work – a new Agricultural Laboratory Building located on the VTC campus – is eligible. Notwithstanding, in order for FEMA to approve the scope of work, the Applicant must provide FEMA with some additional information as detailed in this letter. In addition, I am approving the time extension of the project completion date also known as the period of performance until June 30, 2018.

I. BACKGROUND

The Agricultural and Environmental Laboratory Building is owned and operated by the Vermont Department of Buildings and General Services and operated by the Agencies of Agriculture and Natural Resources. It is a 33,210 square foot, two-story building constructed in 1990 located at the WSOC in Waterbury, Vermont. From August 27 to September 2, 2011, floodwaters from Tropical Storm Irene inundated the first floor of the building. Specifically, the floors, walls, electrical equipment, Heating Ventilation Air Conditioning (HVAC) components, cabinetry, and elevator were damaged. There was no damage to the second floor.

The Applicant applied for financial assistance under the Public Assistance grant for major disaster declaration FEMA-4022-DR to repair the Ag Lab. Upon receiving the request, the

Federal Emergency Management Agency (“FEMA”) prepared PW #3237 to identify disaster-related damage, set forth the eligible scope of work to restore the facility, and estimate the eligible cost to perform the work.

In addition to repairing the Ag Lab, FEMA studied three flood proofing options, which could bring the facility into compliance with the Town of Waterbury’s May 2012 Interim Zoning Regulations. Ultimately, FEMA determined that dry proofing the building by using either exterior wall dry flood proofing or constructing a perimeter flood wall up against the exterior wall would be the most effective method to provide the required mitigation.

The Applicant then requested funding for greater hazard mitigation measures than the minimum required by the zoning regulations. The Applicant proposed dry flood proofing the building to an elevation of 431.5 feet or Base Flood Elevation (BFE) plus 4.7 feet.¹ The estimated cost for these hazard mitigation measures was \$1,785,678.00. FEMA found these measures compliant with Policy² and approved the Hazard Mitigation Proposal (HMP). On October 25, 2013, FEMA approved PW #3237 to include the repairs of the Ag Lab plus hazard mitigation and Direct Administrative Costs (DAC). After a reduction for anticipated insurance proceeds, the remainder was a final PW total of \$1,802,288.00.³

Next, in accordance with the Sandy Recovery Improvement Act of 2013 and the Alternative Procedures Pilot Program Guide for Permanent Work, on May 13, 2014, the Applicant, the Grantee, and FEMA entered into a fixed estimate subgrant agreement for the total amount of \$1,802,288.00.⁴ The Applicant notified FEMA that it did not intend to repair the facility at its current location and intended to pursue either an improved or alternate project. FEMA approved the request but notified the Applicant that they were prohibited from using any of the FEMA funding for the restoration of the Ag Lab for any purpose until it had requested, and FEMA had approved, an improved or alternate project for that building. The Ag Lab was razed in the fall of 2013.⁵

The Applicant notified FEMA that the new laboratory would be built at the WSOC but on higher ground. The first occupied floor elevation would be six feet above the 500-year flood level and provide the same flood risk reduction as would have been achieved by the approved hazard mitigation measures described in the original scope of work. In comparison, the two projects’

¹ BFE=426.8 feet.

² Recovery Policy 9526.1 *Hazard Mitigation Funding Under Section 406*, specifically Appendix A, *Buildings – General* (Mar. 30, 2010).

³ Repairs (\$2,507,933.00) + Hazard Mitigation (\$1,785,678.00) + DAC (\$16,610.00) + Anticipated Insurance Proceeds (-\$2,415,545.00) = \$1,802,288.00. See also, PW 3237, version (2).

⁴ See letter from Michael Obuchowski, Vermont Department of Buildings and General Services, and Jeb Spaulding, Secretary, Governor’s Authorized Representative, Vermont Agency of Administration to Robert Grimley, FEMA Region I re: *Vermont Agencies of Agriculture and Natural Resources Collaborative Laboratory Project - FIXED SUBGRANT AGREEMENT for PIW # 3237* (May 13, 2014).

⁵ Letter from Mark H. Landry, Federal Coordinating Officer, to Ben Rose, Public Assistance Officer, Vermont Emergency Management & Homeland Security re: *Request for Approval to Abate Hazardous Materials and Demolition of Structures – Waterbury State Office Complex – Select Damaged Facilities* (May 24, 2013).

mitigation measures were of equal benefit.⁶ As such, in accordance with the Sandy Recovery Improvement Act of 2013 and the Alternative Procedures Pilot Program Guide for Permanent Work, FEMA advised the Grantee that the Hazard Mitigation funding could travel (be applied) and be approved for the construction of the improved project – the new laboratory building at the WSOC.⁷

A. Improved Project and Time Extension Requests

On March 30, 2015, the Vermont Agency of Administration sent a letter to FEMA providing an update to the project, as well as attaching requests for an improved project and a time extension.⁸ Most notably, the Applicant no longer intends to rebuild the Ag Lab at the WSOC, but rather at the VTC campus in Randolph, Vermont; the rationale being that the Randolph site is superior to the WSOC. The Applicant notes that Randolph is closer to the center of the state, and the VTC offers shared heat and significant collaboration possibilities with staff and students. The Randolph site offers more space for exterior function and room to expand. It also is well above the flood plain.

The Applicant details in its letter that the new location raises the building far above any flood hazard. The proposed WSOC location was at 429.5 feet of elevation, whereas the proposed Randolph site is approximately 1,320 feet above sea level. The proposed site is currently in a cornfield, so the Applicant asserts that new facility will have negligible historic or environmental impact. Additionally, they assert that the new facility would meet or exceed all the functions, capacity and staffing levels that were housed in the damaged Ag Lab. The Applicant requests that FEMA approve the amended scope of work to locate the project in Randolph, subject to National Environmental Protection Act (“NEPA”) review.⁹

Included in Vermont’s correspondence to FEMA was a request to extend the period of performance of PW #3237, which currently ends on September 1, 2015. In their request, the Grantee asked that the FEMA Regional Administrator (“RA”) extend the period of performance

⁶ The 500-year BFE=531.00 feet. The Improved project is designed to provide protection to the 500 year BFE + 6”. 531.00 feet + 6 inches or 0.5 feet = 531.50 feet. The original HMP was designed to provide protection to 531.50 feet. The improved project would provide the same level protection as the design of the original HMP.

⁷ Letter from Robert Grimley to Ben Rose, State Public Assistance Officer, Vermont Division of Emergency Management and Homeland Security re: *FEMA-4022-DR-VT- Vermont Department of Buildings and General Services Public Assistance (PA) ID-000-US9QN-00 –Project Worksheet(PW)3237- WSOC JIVE E AG LAB – Synopsis of the Approved Scope of Work, Hazard Mitigation Measures and the Fixed Cost Agreement* (Oct. 20, 2014).

⁸ Letter from Justin Johnson, Governor’s Authorized Representative, Vermont Agency of Administration to Paul Ford, Acting Regional Administrator, FEMA Region I, and Robert Grimley, Recovery Division Director, FEMA Region I re: *Update, Improved Project Request and Period of Performance Extension Request: for Sandy Recovery and Improvement Act (SRIA) Alternative Procedures Pilot Program; FEMA-4022-DR-VT-PW-03237 Ag Laboratory; Applicant - Vermont Department of Buildings and General Services-BGS; (Mar. 30, 2015).*

⁹ Letter from Michael Obuchowski to Kimberly Canarecci, Public Assistance Officer, Vermont Division of Emergency Management and Homeland Security re: *UPDATE, IMPROVED PROJECT REQUESTS and PERIOD OF PERFORMANCE EXTENSION REQUEST: for PW 3237 Ag Lab SRIA Fixed Cost Estimate: FEMA-4022-DR-VT- Vermont Department of Buildings and General Services (Applicant) Public Assistance (PA) ID-000-US9QN-00-Project Worksheet (PW) 3237: WSOC JIVE E AG LAB* (Jan. 30, 2015) [hereinafter letter from Michael Obuchowski (Jan. 30, 2015)].

October 19, 2015

until June 30, 2018. The Grantee stated that the magnitude of Tropical Storm Irene (48 State buildings damaged in Waterbury) forced the State to phase repairs. The Ag Lab is the last major effort to repair this damage. The Vermont Legislature continues to approve funding and construction as quickly as possible given restrictions to staff and bonding, as well as a seasonal legislative process. If construction of the Ag Lab begins by mid-2016, then the project should be completed by June 2018.¹⁰

Additionally, the Grantee's time extension request included all previous extensions granted by the State, and the extenuating circumstances beyond the control of the Applicant that led to this request as detailed above.¹¹

II. DISCUSSION

A. Sandy Recovery Improvement Act and Environmental Compliance

Section 406 of the Robert T. Stafford Disaster Assistance and Emergency Relief Act authorizes FEMA to provide financial assistance for a local government to repair, restore, reconstruct, or replace a facility damaged by a major disaster.¹² FEMA administratively carries out this authority as "permanent work" under its Public Assistance grant program.

On January 29, 2013, President Obama signed into law the Sandy Recovery Improvement Act of 2013. This law amends Title IV of the Robert T. Stafford Disaster Relief and Emergency Assistance Act (42 U.S.C. 5121 et seq.). Specifically, the law adds section 428, which authorizes alternative procedures for the Public Assistance program under sections 403(a)(3)(A), 406, 407 and 502(a)(5) of the Stafford Act. It also authorizes FEMA to implement the alternative procedures through a pilot program.¹³

To participate in the Alternative Procedures for Permanent Work, subgrantees must agree to a subgrant based on a fixed estimate for that subgrant. FEMA will approve funding for large, uncompleted, permanent work subgrants on the basis of a fixed estimate. This procedure varies from that described in 44 CFR §206.203(c), which provides for funding the actual cost of completing the eligible scope of work. FEMA review for compliance with Environmental and Historic Preservation ("EHP") laws, executive orders, and other regulations must be completed before work can take place.¹⁴

FEMA is required to ensure compliance with applicable EHP laws, regulations, and executive orders when implementing alternative procedures. FEMA will conduct additional EHP

¹⁰ Letter from Kim Canarecci to Paul Ford and Robert Grimley, re: *FEMA-4022-DR-VT; Project Worksheet #3237; Ag Laboratory - Period of Performance Time Extension Request* (Mar. 28, 2015) [hereinafter *Letter from Kim Canarecci* (Mar. 28, 2015)].

¹¹ *Id.*

¹² Robert T. Stafford Disaster Relief and Emergency Assistance Act, Pub. L. No. 93-288, § 406 (1974) (codified as amended at 42 U.S.C. § 5172).

¹³ *Public Assistance Alternative Procedures Pilot Program Guide for Permanent Work (Version 2)* (Dec. 19, 2013).

¹⁴ *Id.*, at 4.

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compliance reviews when fixed subgrant funds (either single or consolidated) are used under these procedures for changes in scope of work that do not substantially conform to the predisaster design, function and location of the damaged facilities. The Grantee will notify FEMA of the proposed work and FEMA will determine whether additional EHP review must be conducted to ensure compliance before construction begins. In some instances, no further EHP review will be required for certain actions.¹⁵

Here, the Applicant opted to take part in the Alternative Procedures and entered into a fixed-estimate subgrant agreement with the Grantee and FEMA for the total amount of \$1,802,288.00.¹⁶ The previous scope of work provided by the Applicant constituted replacing the substantially damaged Ag Lab with a new laboratory at the original disaster site, the WSOC. However, the Applicant has since provided an amended scope of work to instead construct the new facility in Randolph. Since the proposed scope of work does not substantially conform to the predisaster location of the damaged facility, additional EHP review must be conducted to ensure compliance before construction begins.

The first step in applying the NEPA process is to determine whether to prepare an Environmental Assessment ("EA"). Early determination will help ensure that necessary environmental documentation is prepared and integrated into the decision-making process. In some cases, it will be readily apparent that a proposed action will have significant impact on the environment, such as if an action will result in an extensive change in land use or the commitment of a large amount of land.¹⁷ Pursuant to this regulation, the Applicant is responsible for completing an Environmental Assessment. The Applicant can use the fixed estimate subgrant to fund the EA.

Note that the Grantee provided a letter from the State Historic Preservation Officer ("SHPO") who performed a site visit to the proposed location and determined there would no effect on historic properties.¹⁸

B. Hazard Mitigation

Section 406 hazard mitigation funds are discretionary funds that can be added to project funding for the repair of disaster-damaged facilities and must prevent future damage similar to that caused by the declared event. Under standard PA procedures, 406 mitigation funds cannot be retained on alternate projects or improved projects that involve relocation or facility replacement

¹⁵ Id., at 13.

¹⁶ See letter from Michael Obuchowski, Vermont Department of Buildings and General Services, and Jeb Spaulding, Secretary, Governor's Authorized Representative, Vermont Agency of Administration to Robert Grimley, FEMA Region I re: *Vermont Agencies of Agriculture and Natural Resources Collaborative Laboratory Project - FIXED SUBGRANT AGREEMENT for PII # 3237* (May 13, 2014).

¹⁷ 44 CFR § 10.8

¹⁸ Letter from Laura Trieschmann, State Historic Preservation Officer, Vermont Division for Historic Preservation to Sandra Vitzthum, Department of Buildings and General Services re: *State of Vermont Agencies of Agriculture and Natural Resources Collaborative Laboratory Construction, Vermont Technical College, Furnace Street, Randolph Center, Vermont. Vermont Historic Preservation Act, Act 250 Land Use Permit # 3R0581 Amendment, and U.S. Department of Homeland Security Federal Emergency Management Agency Section 106 Review* (Jan. 22, 2015).

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at same site. In an effort to promote greater flexibility in the use of funds after accepting a fixed grant and allow more resilient mitigation with the alternative procedures authorized under Section 428, FEMA may allow the retention of 406 mitigation funds in the aforementioned circumstances on a case-by-case basis where prevention of future similar damage is proven to be of greater or equal benefit than that which would have been achieved with the approved mitigation scope of work in the agreed upon fixed subgrant(s).¹⁹

The original scope of work in PW #3237 includes hazard mitigation measures designed to protect the repaired Ag Lab from the 500-year flood event. Therefore, the 406 mitigation funds can only be maintained on the Applicant's proposed project if the flood mitigation is proven to be of greater or equal benefit as the original hazard mitigation measures. The Applicant originally notified FEMA that the new laboratory would be built at the WSOC but on higher ground. Specifically, it would be built six feet above the 500-year flood level and provide the same flood risk reduction as would have been achieved by the approved hazard mitigation measures described in the original scope of work. Consequently, FEMA advised the Grantee that the 406 mitigation funding could travel and be approved for the construction of the improved project.

Presently, the Grantee has informed FEMA that the new laboratory will instead be built at a new location in Randolph. The Applicant asserts that the new site is well above the flood plain, specifically 1,320 feet above sea level (versus 429.5 feet at the WSOC). Notwithstanding, the Applicant must show that the hazard mitigation measures of the proposed project are of at least equal benefit as the hazard mitigation measures in the original PW. Specifically, the original mitigation measures called for dry flood proofing the building to Base Flood Elevation plus 4.7 feet, so the proposed project's flood hazard mitigation must be of least equal benefit.

C. Facility function and capacity

Finally, in order for the Hazard Mitigation funding to travel with the new scope of work, the Applicant must build a facility with the same function as the damaged facility. To illustrate, since the Ag Lab was damaged during the disaster, the Applicant must build an Ag Lab – and not a different type of facility, such as a police station – in order to maintain the Hazard Mitigation funding.

Here, the Applicant asserts that the scope of work as previously agreed upon with FEMA has only been amended to incorporate the change in location. The new laboratory will be built at the VTC campus in part to allow for collaboration between students and lab staff. The new building will improve the functions and testing capacity of the original building while not being much larger. Additionally, all the staff that were employed in the Ag Lab before Irene will be employed in Randolph. Therefore, all functions and staff that were housed in the pre-Irene building will be housed in the new facility, so the function of the Ag Lab will be met.²⁰

¹⁹ Id., at 14.

²⁰ Letter from Michael Obuchowski (Jan. 30, 2015).

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D. Time Extension

The project completion deadlines for the PA Program are set from the date that a major disaster is declared and apply to all projects under the PA grant.²¹ For PA Categories C through G (permanent work), the project completion deadline is 18 months from the date of the major disaster declaration.

Based on extenuating circumstances or unusual project requirements beyond the control of an applicant, the grantee may extend the deadlines for an additional 30 months for permanent work.²² The grantee must submit requests for time extensions beyond the grantee's authority to the RA. These requests must include (1) the dates and provisions of all previous time extensions on the project; and (2) a detailed justification for the delay and a projected completion date. If the RA approves the request, the approval letter shall reflect the approved completion date and any other requirements the RA may determine necessary to ensure that the new completion date is met.²³

After reviewing this request, the information submitted by the Grantee meets the requirements for requesting an extension of time for project completion. The Applicant was provided with 18 months from the date of the major disaster declaration to complete permanent work. The major disaster was declared on September 1, 2011, which meant that the period of performance ended on March 1, 2013. On July 22, 2013, the Grantee, within their statutory authority, approved a time extension until September 1, 2015, the maximum allowable under their authority.²⁴ Now, a further extension of the period of performance is needed to allow for FEMA concurrence with the proposed location change of the improved project, the securing of funding from the Vermont legislature, as well as the completion of construction which is set to begin by mid-2016. According to the Applicant's time line, the work will be completed by June 30, 2018.²⁵

III. CONCLUSION

The Vermont Department of Buildings and General Services intends to build the new laboratory at a site in Randolph, Vermont, rather than at the WSOC. In order for the \$1,802,288.00 in 406 mitigation funding to travel with the new project under the Alternative Procedures, the Applicant must 1) complete an Environmental Assessment with FEMA and 2) provide documentation that the proposed scope of work provides at least the same flood protection as the hazard mitigation measures in the original PW. The Applicant has already provided documentation to show that the new laboratory will maintain the same function as the original damaged facility. I encourage you to contact David Robbins, Regional Environmental Officer (david.robbsins@fema.dhs.gov and/or

²¹ 44 C.F.R. § 206.204(c)(1).

²² 44 C.F.R. § 206.204(c)(2).

²³ 44 C.F.R. § 206.204(d).

²⁴ Letter from Ron Pentkowski, Public Assistance Coordinator, Vermont Division of Emergency Management and Homeland Security to Sandra Vitzthum, Project Manager II, Department of Buildings and General Services re: FEMA-4022-DR-VT; Project Worksheet #3237; Ag Laboratory - Period of Performance Time Extension Request (July 22, 2013).

²⁵ Letter from Kimberly Canarecci (Mar. 28, 2015).

Justin Johnson
FEMA-4022-DR-VT
Dept. of Buildings and General Services- PW-03237
Improved Project and Time Extension Requests

-8-

October 19, 2015

ph#978-914-0378), at your earliest convenience to initiate an inter-agency scoping meeting for the Environmental Assessment.

Furthermore, I am approving the request to extend the period of performance of PW #3237 until June 30, 2018, to allow the Applicant to complete all requirements of the fixed estimate subgrant and to construct the new laboratory.

This letter constitutes the official notification to the Grantee. Please inform the Applicant of my decision. If you have any questions, please contact Jean McDonough, Public Assistance Coordinator, FEMA Region I, at (617) 832-4757 or Jean.McDonough@fema.dhs.gov.

Sincerely,

GEORGE F
VANDERSCHMIDT

G. Fred Vanderschmidt
Disaster Recovery Manager
FEMA-4022-DR-VT

Digitally signed by GEORGE F VANDERSCHMIDT
DN: c=US, o=U.S. Government, ou=Department
of Homeland Security, ou=FEMA, ou=People,
cn=GEORGE F VANDERSCHMIDT,
0.9.2342.19200300.100.1.1=0072408727.FEMA
Date: 2015.10.19 12:45:41 -04'00'

GFV/sp

PA-01-VT-4022-PW-03237(2)	
Applicant Name:	Application Title:
VT DEPARTMENT OF BUILDINGS & GENERAL SERVICES	WSOC JWE E AG LAB
Period of Performance Start:	Period of Performance End:
09-01-2011	09-01-2015

Subgrant Application - Entire Application

Application Title: WSOC JWE E AG LAB

Application Number: PA-01-VT-4022-PW-03237(2)

Application Type: Subgrant Application (PWA)

Preparer Information	
Prefix	Mr.
First Name	Galen
Middle Initial	
Last Name	Costigan
Title	PROJECT SPECIALIST
Agency/Organization Name	FEMA
Address 1	30 ALLEN MARTIN DRIVE
Address 2	
City	ESSEX JUNCTION
State	VT
Zip	05452
Email	Ben.Rose@state.vt.us
Is the application preparer the Point of Contact? No	

Point of Contact Information	
Prefix	Ms.

1/4/2016

Federal Emergency Management Agency E-Grants

First Name	Wanda
Middle Initial	
Last Name	Minoli
Title	Deputy Commissioner BGS
Agency/Organization	VT Department of Buildings & General Services
Address 1	2 GOVERNOR AIKEN AVENUE
Address 2	
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State	VT
ZIP	05633 - 5801
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Alternate Point of Contact Information	
Prefix	Mr.
First Name	Tom
Middle Initial	
Last Name	Sandretto
Title	Deputy Commissioner
Agency/Organization	VT Department of Buildings & General Services
Address 1	2 Governor Aiken Avenue
Address 2	
City	Montpelier
State	VT
ZIP	05633 -5801
Phone	802-828-3515
Fax	802-828-3533
Email	tom.sandretto@state.vt.us

Project Description	
Disaster Number:	4022

1/4/2016

Federal Emergency Management Agency E-Grants

Pre-Application Number:	PA-01-VT-4022-RPA-0074
Applicant ID:	000-US9QN-00
Applicant Name:	VT DEPARTMENT OF BUILDINGS & GENERAL SERVICES
Subdivision:	
Project Number:	JEBGSAL
Standard Project Number/Title:	599 - Repair Damages to Public Buildings and Facilities
Please Indicate the Project Type:	Neither Alternate nor Improved
Application Title:	WSOC JWE E AG LAB
Category:	E.PUBLIC BUILDINGS
Percentage Work Completed?	0.0 %
As of Date:	07-24-2012

Comments

Attached: Ag Env Lab Location Maps, Appeal Documents, & WSOC Critical Action Document.

Attachments

User	Date	Document Type	Description	Hard Copy File Reference	File Name	Action
JOSEPH EMERSON JR	07-31-2012	Map	Ag Lab Location WSOC		Ag_Lab_location_map[1].pdf(63.32 kb)	View
GALEN COSTIGAN	09-28-2012	Map	Ag Lab Location on WSOC		WSOC MapAg Lab Building.pdf(289.88 kb)	View
GALEN COSTIGAN	11-15-2012	Appeal Document	Second Appeal Palo Coop Document		2nd_Appeal_-_Palo_Cooperative_Telephone_Assoc._9_11_12[1].pdf(64.61 kb)	View
GALEN COSTIGAN	11-15-2012	Appeal Document	Second Appeal Manolia JHS		2nd_Appeal_-_Magnolia_Junior_High_School_7_17_2008[1].pdf(67.97 kb)	View
GALEN COSTIGAN	11-15-2012	Additional Information	WSOC Critical Action Determination		WSOC Critical Action Determination.pdf(737.54 kb)	View
DAWN REICH	01-27-2014	Additional Information	AG Letter		Letter re Status of Agricultural Lab 121 and 123 S Main Projects DR-4022 .pdf(448.74 kb)	View

Damage Facilities (Part 1 of 2)

Facility Number	Facility Name	Address	County	City	State	ZIP	Site Previously Damaged?	Action
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1/4/2016

Federal Emergency Management Agency E-Grants

1	AG/ENV LAB (Building #06394)	103 South Main St.	Washington	WATERBURY	VT	No
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Comments

Attached: Floor Plans, Building Summary Report, WSOC 2011 Period Report, WSOC - Contractor Information - Contract Crosswalk 10-25, Vermont Fire Code, Ag Lab Photos, The Space Book, CEF Ag Lab Part A. Amended CEF was attached on 12/11/12. Only change was to Fact Sheet #2 eliminating reference to Breadloaf Construction as original builder of Ag Lab. No numbers or calculations were changed or affected. Tom Perry/PAC

Attachments

User	Date	Document Type	Description	Hard Copy File Reference	File Name	Action
JOSEPH EMERSON JR	07-31-2012	Drawings/Sketches	Ag Lab Floor Plan		WaterburyAgLab-11x17Layout (2).pdf(330.19 kb)	View
JOSEPH EMERSON JR	08-10-2012	Drawings/Sketches	Ag Lab Multi-Floor Plan		All Floors With Areas 18 Ag Lab.pdf(392.34 kb)	View
JOSEPH EMERSON JR	08-11-2012	Supplemental Information	Ag Lab Elevator Quote		Ag Lab Elevator.pdf(180.28 kb)	View
JOSEPH EMERSON JR	09-13-2012	Miscellaneous	WSOC 2011 Period Plan		WSOC 2011Period plan.pdf(157.57 kb)	View
JOSEPH EMERSON JR	09-13-2012	Miscellaneous	VT Fire Code		Vermont Fire Code 2006 Pages 1 and 2.pdf(136.15 kb)	View
JOSEPH EMERSON JR	09-15-2012	Photos	Ag Lab Photos		Ag Lab Photos.docx(2.46 Mb)	View
JOSEPH EMERSON JR	09-20-2012		Ag Lab FAJA		Ag Lab FAJA2.pdf(1.15 Mb)	View
GALEN COSTIGAN	10-26-2012	Additional Information	Building Summary Report Sheet		32 Agriculture Lab ID.docx(1.97 Mb)	View
GALEN COSTIGAN	11-15-2012	Calculation Sheet	50% Rule Ag Lab		50% Rule Ag Env Lab Package.pdf(840.93 kb)	View
GALEN	11-				50% Rule Cover Sheet - Ag Env	

1/4/2016

Federal Emergency Management Agency E-Grants

COSTIGAN	15-2012	Calculation Sheet	50% Rule Cover Sheet		Lab.docx(19.91 kb)	View
GALEN COSTIGAN	11-15-2012	Calculation Sheet	Ag Lab 50% Rule Approach		AG ENV Lab 50% Rule Approach.docx(21.69 kb)	View
GALEN COSTIGAN	11-19-2012	Additional Information	Function & Use Spreadsheet		WSOC Function and Use by Building List with State Revisions10232012.xls(96.00 kb)	View
GALEN COSTIGAN	11-19-2012	Additional Information	Crosswalk Spreadsheet		WSOC - Contract Spreadsheet w-build up 11-16-12 rev1.xlsx(265.70 kb)	View
THOMAS PERRY	12-11-2012	Calculation Sheet	Ag Lab CEF		CEF Ag - Env Lab.xlsm(209.77 kb)	View
THOMAS DZIUBAKOWSKI	01-21-2013	Additional Information	Attachment A: FEMA/BGS Inspection Guidance Document dated 1/7/13		Attachment A - FEMA-BGS Inspection Guidance Document dated 010713.docx(17.74 kb)	View
THOMAS DZIUBAKOWSKI	01-21-2013	Additional Information	Attachment B: "Recommended Work Practices for Removal of Resilient Floor Coverings" from the Resilient Floor Covering Institute		Attachment B - recommended-work-practices.pdf(6.66 Mb)	View
THOMAS DZIUBAKOWSKI	01-21-2013	Additional Information	Attachment C: Waterbury's Interim Zoning Regulations		Attachment C - Waterbury - Zoning Regulations Article VI APPROVED 5-21-12.doc(109.51 kb)	View
THOMAS DZIUBAKOWSKI	01-21-2013	Additional Information	Attachment F: Preliminary DFIRM		Attachment F - Preliminary DFIRM.xlsx(660.60 kb)	View
THOMAS DZIUBAKOWSKI	01-21-2013	Additional Information	Attachment H: "Codes Standards Analysis FINAL 01 14 2013 Non Historic" when with FPM		Attachment H - Codes Standards Analysis FINAL 01 14 2013 Non Historic.xlsx(17.56 kb)	View
THOMAS DZIUBAKOWSKI	01-28-2013	Additional Information	Attachment D: Substantial Damage Letter - AG Bldg		Attachment D SSD Letter Ag Lab - Copy.pdf(33.22 kb)	View
THOMAS DZIUBAKOWSKI	02-06-2013	Additional Information	Attachment CEF v1 - Total Project after Amendment 1		CEF Ag Env Lab V1 w C-S seperate 02 05 13.xlsm(423.68 kb)	View
GALEN COSTIGAN	02-06-2013	Additional Information	Attachment E: Subgrantee's Request for FPM review		FINAL 2012-11-07 Ltr Sub-Dam AGLAB.docx(58.38 kb)	View

1/4/2016

Federal Emergency Management Agency E-Grants

Facility Name:	AG/ENV LAB (Building #06394)
Address 1:	103 South Main St.
Address 2:	
County:	Washington
City:	WATERBURY
State:	VT
ZIP:	
Was this site previously damaged?	No
Percentage Work Completed?	%
Location:	<p>PA-01-VT-4022-PW-03237(0): The Ag/Env Lab (Building # 06394) is located in the southern portion of the WSOC campus approx. 610' southwest of the intersection of the South Entrance on Outer Loop Road and South Main St (Route 2 and Route 100). The GPS coordinates at the entrance to the Ag/Env Lab are 44.33049 and -72.75199. The structure lies within the 500 year flood zone. (See attached location map & Flood Plain Attachments.)</p>
	<p>PA-01-VT-4022-PW-03237(0): As a result of the flooding from Tropical Storm Irene, incident period of August 28th through September 2, 2011 the Agricultural and Environmental Laboratory (Ag/Env Lab) building sustained damage on the first floor. (See attachments for a floor plan of the Ag/Env Lab's first floor.)</p> <p>The structure is a 33,210 Square Foot (SF), 2 story brick building containing that was constructed in 1990. The use of the building at the time of the incident was as a laboratory for the Vermont Agency of Agriculture (Division of Food Safety and Consumer Protection) and the Vermont Department of Environmental Conservation.</p> <p>The Ag/Env Lab is under the authority of the Vermont Agency of Buildings and General Services (BGS) hereinafter referred to as Applicant. (See the attached Function and Use Spreadsheet and Building Summary Report.)</p> <p>Floodwater reached a height of approximately 2.83' on the 15,119 sq. ft. first floor inundating floors, walls, electrical equipment, HVAC components, cabinetry, and the elevator. There was no damage to the upper floor.</p>

The loss estimates for the Ag/Env Lab are based upon multiple site inspections by DBI estimators and site inspections by FEMA representatives (See Facility Assessment Job Aid Template attached). Damage estimates for mechanical, electrical, and plumbing items in the DBI report were based on estimates by Vermont state engineers and subsequently validated through use of R. S. Means. Elevator estimates are from a quote provided by Bay State Elevator Company, the usual service contractor for WSOC elevators. DBI Construction Consultants is an engineering firm hired by the Lexington Insurance Company to provide these estimates. (See DBI & Upland Reports)

The damaged elements include:

MASONRY

2,492 sf masonry (534 lf x 4'8" high), 528 sf masonry (66 lf x 8' high) were damaged and stained by the flood waters.

METALS

3, ea, pipe rails @ stair A B C, & 2 ea new pipe rails @ vestibule A & B damaged by flood waters and debris.

WOODS & PLASTICS

Items sustaining water damage from the flood waters were: 100 lf PT of 2x8 wood sleepers,

240 lf of PT 2x6 deck,

32 sf of 1/2" ply @ type B1 window head 12" wide,

60 ea of PT 2x6 nailer @ B1 window jamb,

1,650 ea of misc. blocking,

320 lf of 4/4x5 hwd jamb,

200 lf of 1/2x2 hwd stop,

656 lf of 4/4x4 hwd casing,

240 lf of 1/2x1 1/4 hwd stop,

40 lf of 3/4x6 hwd base w/champ,

40 lf of 3/4x4 hwd chair rail w/rabbet,

160 lf of 3/8 x 3 1/2 hwd wainscot (40sf),

40 lf of 1x2 hwd sill,

155 lf of 5/4x12 hwd sill,

155 lf of 5/4x4 hwd apron,

20 lf of 5/4x14 hwd sill,

20 lf of 3/4x4 hwd apron,

24 lf of 4/4x4 hwd casing,

24 lf of 4/4x8 hwd jamb,

64 lf of 3/4x12 hwd of skirt board @ stair b,

20 lf of 3/4x12 hwd skirt board @ vestibule stairs,

825 lf of 3/4x4 hwd chair rail,

215 lf of 3/4x4 hwd chair rail w/rabbet,

1,035 lf of 3/4x6 hwd base w/champ,

800 lf of 3/8x3 hwd wainscot,

6 lf of 5/4x18 hwd sill @ lobby niche (2ea x 3').

20 lf of 12/a-10 5/4x4 trim,
 20 lf of 12/a-10 3/4x4 trim ,
 16 lf of 5/a-13 3/4x4 elevator trim,
 6 lf of 5/a-13 3/4x10 elevator trim,
 4 ea hardwood benches,
 1 ea reception desk,
 2 ea MDO shelving units,
 1 ea 5 adjustable shelves,
 2 ea cabinets & counters,
 2 ea 3 adj. shelves,
 2 ea PL lavatory tops @ toilet rooms.

THERMAL & MOISTURE PROTECTION

Also sustaining soaking and damage from the high waters from the high waters were:

3,000 sf of 6" fg batt insulation w/kraft face @ ext walls,
 1,100 sf of 3-1/2" fg batt insulation w/kraft face @ drum ext walls,
 4,100, sf, of 6 mil poly vb @ exterior walls ,
 150 sf of 3-1/2" fg batt insulation w/kraft face above ceiling room 103,
 5,500 sf of 3-1/2" fg batt insulation w/kraft face @ int walls, and
 3,000 sf of air barrier @ exterior walls.
 3,000 sf of concrete Floors stained.

DOORS & WINDOWS

Doors and windows sustaining water damage were :

2 ea of type d frames - double door,
 1 ea of type d frames - single door,
 16 ea of type e frames - double door,
 44 ea of type e frames - single door,
 1 ea of type r frames - double w/transom,
 6 ea of type 3 door leafs,
 2 ea of type 3a door leafs,
 25 ea of type 4 door leafs,
 6 ea of type 5 door leafs,
 2 ea of type 6 door leafs,
 15 ea of type 7 door leafs,
 18 ea of type 8 door leafs,
 4 ea of type 8a door leafs, 6 ea of type 9 door leafs,
 4 ea of type 10 door leafs,
 5 ea of type n interior borrow lite windows,
 11 ea of type 6 wd door leafs,
 1 ea of misc. access doors,
 55 ea of interior single openings door hardware,
 19 ea of interior double openings door hardware,
 1 sf of aluminum entrance,
 33 ea of aluminum windows,
 100 sf of greenhouse windows.

4- Ea -2'x6' picture windows

FINISHES

Wall, Ceiling, & Incidentals water damaged or stained were:

840 sf of skim coat plaster @ cylinder exterior walls,
 560 lf of 3 5/8 track @ exterior mechanical chase walls,
 2,800 lf of 3 5/8 stud @ exterior mechanical chase walls,
 1,014 sf of Metal stud partition, 3-5/8" wide, 25 gauge, 16" O.C.,
 3,000 sf of 1/2" gypsum sheathing @ exterior wall,
 50,400 sf of 5/8" gwb @ walls,
 46,500 sf tape and finish sheetrock,
 40 sf of waterproofing membrane, mortar bed & mesh @ shower 147B,
 40 sf of ceramic floor tile @ 147b,
 70 sf of ceramic wall tile @ 147b,
 14 lf of ceramic tile base @ 147b,
 16,400 sf of suspended acoustical ceilings (type 1 through 4),
 7,800 sf of sheet vinyl,
 2,000 sf of vinyl tile,
 2,800 lf of vinyl base,
 200 sf of rubber tile (landings),
 320 lf of rubber treads & risers,
 124 sy of carpet,
 47,340 sf plaster finishes,
 55 ea of single doors & frames,
 19 ea of double doors & frames,
 4,200 lf of standing and running trim,
 840 sf of wainscoting,
 136 sf of rfp panels @ custodian 108,
 20 lf of divider trim,
 16 lf of inside corner,
 76 lf of end cap,
 Various Areas of Minor Slate Floor damage

SPECIALTIES

Specialty items which sustained water damage were:

1 toilet stall @ 147A,
 74 ea of interior signage,
 3 ea of fire extinguishers & cabinets,
 3 ea of 24" grab bar,
 3 ea of 42" grab bar,
 1 ea of 18"x32" grab bar,
 3 ea of tp dispenser,
 3 ea of mirrors 24"x34",
 3 ea of pt dispenser,
 1 ea of folding shower seat,
 1 ea of 48" shower curtain & rod,

Damage Description and Dimensions:

4 ea of robe/coat hooks.

EQUIPMENT

Fixtures which sustained damage from the high water included the following:

666 lf of metal casework F&I,
 666 lf of epoxy countertop F&I,
 8 ea of fume hoods F&I (originally new),
 2 ea of fume hoods F&I (Originally by owner),
 22 sf of entry matt & frame @ vestibule 100 (4'x5'6"),
 24 sf of entry matt & frame @ vestibule 128 (4'6"x5'2"),
 15 sf of entry matt & frame @ vestibule 100 (4'x3'8")

CONVEYING

Also water damaged was: 1 elevator. The elevator in the Ag/Env Lab had returned to its "neutral" location at the first floor level after it was last used as it was intended to do. Because it was at the first floor level it had several components damaged due to contamination: the cab plywood floor, cab OSB walls, and cab doors were damaged and require replacement. Emergency pit limit switches, emergency telephone and emergency light/alarm battery pack were all damaged also.

MECHANICAL

Also damaged by the high waters were:

1 mechanical (heat pump installation),
 30 ea Climatemaster TRC water source heat pump 1.5 t (old units = CL019GRoSHSSMSE, SN C1161468, 208/230v, 60 hz, 1 ph, 9.4 a, 5 kw cool, 6 kw heat, 1/6 HP),
 1 York 14tn chiller unit m/n YCAL0014SC17XAASDTXLTXRLxxx44, s/n RFHM1770AA,
 1 14tn York chiller YCAL0014SC air cooled chiller,
 14 ton Pipe, sub assemblies used in assembly systems, refrigerant piping, per ton, with remote condensing unit, 20 ton (install York),
 2 McQuay 140tn chiller 24v - 18v METS 50327 transformers,
 1 McQuay 140tn chiller 860-654873B06 s/n 37358 control board,
 1 McQuay 140tn chiller control 658160B01 s/n 21109 logic control,
 1 McQuay 140tn chiller control components ,
 4 McQuay 140tn chiller Copeland compressors 6DR3A4000TSN230 & 6DJ3A4000TSN230,
 1 McQuay 140tn chiller Gordos PB16 relay,
 1 McQuay 140tn chiller Automated Logic 2540 control module,
 4 McQuay 140tn chiller 100amp breaker/relays Type A,
 4 McQuay 140tn chiller Johnson Control oil pressure switches P12CA1,
 4 McQuay 140tn chiller GE contactors CR353EGBA100,
 4 protector/overload modules in McQuay 140tn chiller control panel,
 2 McQuay 140tn chiller compressor solenoid coils,
 Also water saturated
 42 lf insulation, pipe covering (price copper tube one size less than I.P.S.), fiberglass with all service jacket, 3" wall, 6" iron pipe size (McQuay chiller), 8 McQuay 140tn chiller 12" insulated

pipe 90 degree elbows,
 2 If Baltimore Air Coil (BAC) cooling tower 12" pipe insulation,
 4 If Baltimore Air Coil (BAC) cooling tower 12" pipe insulation,
 1 Baltimore Air Coil (BAC) cooling tower Bleimo LF120 US auto-drain timer,
 1 Baltimore Air Coil (BAC) cooling tower float switch 310620,
 1 Baltimore Air Coil (BAC) cooling tower TACO 1/25hp, 115V, 125PSI, .76A, 60hz cartridge
 circulator pump/motor Bleimo LF120 US auto-drain timer,
 8 Baltimore Air Coil (BAC) cooling tower submerged junction boxes other electrical
 connections,
 1 Baltimore Air Coil (BAC) cooling tower Crouse Hinds heater sump 206V, 12kw, 3phased, m/n
 310570,
 1, Iwaki EZB15D1VC, 1gph metering pump (hazardous material room beside elevated air
 handler),
 1 LMI m/n A15191SL, 1gph metering pump/motor (utility room),
 40 If 6" fiberglass/jacketed pipe insulation (14tn chiller),
 15- 6" plastic 90 degree pipe insulation elbows,
 42 If 12" fiberglass/jacketed pipe insulation (140tn chiller),
 6 - 12" plastic 90 degree pipe elbow (140tn chiller),
 1- 12" plastic 22 degree pipe elbow (140tn chiller).

Also damaged by high waters were:

1- fume hood
 10 fume hoods, with countertop & base, complex, incl. fixtures, excl. HVAC
 Also water damaged were:
 3 exterior wall hose bibs,
 57 water, gas, drain line hookups for metal casework,
 26 water supply line hookups for metal casework,
 1 Iwaki EZB15D1VC, 1gph, metering pump (utility room).

Also damaged by the flood waters were:

Ceiling ductwork: 42 If of 3" wall chill water pipe insulation (for 6" McQuay unit piping),
 21 If of Insulation, pipe covering for fittings (McQuay chiller).

Also damaged were:

56 floor drains plugged with debris.

Also impacted by damage from the storm:

200 If 1" pvc argon gas piping (S & W walls),
 200 If 1" pvc argon gas piping (S & W walls),
 240 If 1" pvc argon gas piping (E wall),
 240 If 1" pvc argon gas piping (E wall),
 3 ea 2" steel pipe (SE wall),
 15 If 2" steel pipe (SE wall),
 12 If 2" steel pipe (SE wall @ louvered vent)
 80 If Pipe, metal pipe, 4" to 6" diam., selective
 1 system Pipe, sub assemblies used in assembly systems, refrigerant piping, per ton, with

remote condensing unit, 100 ton
 2 sf -6" x 30" metal louvered wall vent (N & E walls),
 24 sf -4' x 6' metal louvered wall vent (E corner)

ELECTRICAL

Also damage to electrical items by water were:

8 ea replace GE 100amp,
 240, 480, 600V, 3phase breakers in main 1600amp service panel,
 7 lf 3' x 7' electrical panel metal cover (main panel),
 1 lf 3' x 1' electrical panel metal cover (main panel),
 2 lf 3' x 2' electrical panel metal cover (main panel),
 3 lf 3' x 3' electrical panel metal cover (main panel),
 2 ea Sneider Electric LC1D65A cooling tower panel contactors in Yaskawa P7B Drive panel
 (inside bldg),
 4 Cutler Hammer 200amp, 250V safety switches (@ 140tn chiller),
 1 ea Cutler Hammer 100amp 600V safety switch (@ 14tn chiller)

Also water damaged were lighting fixtures:

23 ea Fluorescent fixture, interior, troffer parabolic lay-in,
 2-U32 W T8, 2' W x 2' L, incl lamps, mounting hardware and connections,

Also damaged were:

130 ea wall receptacles with wiring back to nearest junction,
 2 ea remove/replace Magnatech 3/4hp circulating pump motors PN 1015135103 (to elevated air
 handler - SE corner interior) - Motors, drip proof, premium efficiency, 1.15 service factor, 1800
 RPM, 230/460 V, 60 Hz, 3/4 HP

Also damaged were:

1 ea 220V relay for condensate pump motors (utility room)
 130 ea Receptacle & switches,
 15 to 30 amp, electrical, 65 cfl Wire, THW-THWN-THHN,
 Also damaged was: 1 ea 285KW CAT diesel generator #1

Water Electrical damage:

1 -20a GFI receptacle - exterior wall (at greenhouse),
 1, ea, Duplex receptacle, ground fault interrupting, 20 amp,
 240 lf 1" metal conduit for 20a GFI receptacle - exterior wall (at greenhouse SE, W walls) ,
 1 ea Cutler Hammer 200amp, 250V safety switch (cooling tower),
 10-telephone wiring terminal blocks (utility room),
 1 ea Card reader, basic, interior and exterior, key access, excludes striker/power/wiring (S
 entrance door)

The laboratory equipment housed in the Applicant's Ag Env Lab Building is considered contents
 and thus is not to be included in the Ag Env Lab Building's Project Worksheet or in the Ag Env
 Lab Building's 50% calculations. (See Attached Ruling Second Appeal Brief 1763-DR-IA PA ID
 # 113-UUK61-00).

PA-01-VT-4022-PW-03237(1):

1/4/2016

Federal Emergency Management Agency E-Grants

*** Amendment 1 ***

This building has been determined to be "Substantially Damaged". See Scope of Work for details

See: Attachment D: Substantial Damage Letter
Attachment & E: Subgrantee's Request for FPM review

PA-01-VT-4022-PW-03237(0):
SCOPE OF WORK:

Completed work: the Applicant hired G W Savage Corp, for building stabilization, selective demolition, and clean-up which have already been completed and the work and costs are captured in a Category B PW #03072 for the Applicant.

This Cat B Emergency work is not to be considered in the 50% Rule analysis. In accordance with 44 CFR 206.226(d) (1.) See Attached Second Appeal Analysis FEMA-1604-DR-MS PA ID # 059-00EE2-00.

Electricity (Norway & Sons) was provided and heat to dry out wet components and prevent freezing during the winter.
The temporary heating units (5-Heat Pumps) were provided by a separate contract (Alliance Mechanical) The costs associated with this completed work is not part of this Project Worksheet but contained in PW # 03248 for the Applicant.

The permanent work necessary to return the building to pre-disaster condition is included in the DBI estimate as noted in the damage description above.
A CEF was created independently to validate the estimate provided by DBI.

Work to be completed to return the facility to predisaster condition includes: (See DBI REPORT & CEF Attached.)

MASONRY

Clean 2,492 sf masonry (534 lf x 4'8" high)
528 sf masonry (66 lf x 8' high),

METALS

Replace 3 ea re-install pipe rails @ stair A B C,
2 ea new pipe rails @ vestibule A & B

WOODS & PLASTICS

Replace 100 lf PT 2x8 sleepers @ hazardous waste floor,
 240 lf PT 2x6 deck @ hazardous waste floor,
 32 sf 1/2" ply @ type B1 window head 12" wide,
 60 ea PT 2x6 nailer @ B1 window jamb,
 1,650 ea misc. blocking, 320 lf 4/4x5 hwd jamb,
 200 lf 1/2x2 hwd stop, 656 lf 4/4x4 hwd casing,
 240 lf 1/2x1 1/4 hwd stop,
 40 lf 3/4x6 hwd base w/champ,
 40 lf 3/4x4 hwd chair rail w/rabbet,
 160 lf 3/8 x 3 1/2 hwd wainscot (40sf),
 40 lf 1x2 hwd sill,
 155 lf 5/4x12 hwd sill,
 155 lf 5/4x4 hwd apron,
 20 lf 5/4x14 hwd sill,
 20 lf 3/4x4 hwd apron,
 24 lf 4/4x4 hwd casing,
 24 lf 4/4/8 hwd jamb,
 64 lf 3/4x12 hwd skirt board @ stair b,
 20 lf 3/4x12 hwd skirt board @ vestibule stairs,
 825 lf 3/4x4 hwd chair rail,
 215 lf 3/4x4 hwd chair rail w/rabbet,
 1,035 lf 3/4x6 hwd base w/champ,
 800 lf 3/8x3 hwd wainscot,
 6 lf 5/4x18 hwd sill @ lobby niche (2ea x 3'),
 20 lf 12/a-10 5/4x4 trim @ hall B @ elevator,
 20 lf 12/a-10 3/4x4 trim @ hall B @ elevator,
 16 lf 5/a-13 3/4x4 elevator trim @ lobby,
 6 lf 5/a-13 3/4x10 elevator trim @ lobby,
 4 ea hardwood benches @ vestibule,
 1 ea reception desk,
 2 ea MDO shelving units @ 127 & 129,
 1 ea 5 adjustable shelves @ custodian 108,
 2 ea cabinets & counters @ lunchroom 126,
 2 ea 3 adj. shelves @ lunchroom 126,
 2 ea PL lavatory tops @ toilet rooms.

THERMAL & MOISTURE PROTECTION

Replace 3,000 sf 6" fg batt insulation w/kraft face @ ext walls,
 1,100 sf 3-1/2" fg batt insulation w/kraft face @ drum ext walls,
 4,100 sf 6 mil poly vb @ exterior walls,
 150 sf 3-1/2" fg batt insulation w/kraft face above ceiling room 103,
 5,500 sf 3-1/2" fg batt insulation w/kraft face @ int walls,

3,000 sf air barrier @ exterior walls,
 3,000 sf prep existing damaged sealant, then seal concrete floors,
 Replace 2,688 lf misc. interior caulking @ sealant,

DOORS & WINDOWS

Replace 2 ea type d frames - double door,
 1 ea type d frames - single door,
 16 ea type e frames - double door,
 44 ea type e frames - single door,
 1 ea type r frames - double w/transom,
 6 ea type 3 door leafs,
 2 ea type 3a door leafs,
 25 ea type 4 door leafs,
 6 ea type 5 door leafs,
 2 ea type 6 door leafs,
 15 ea type 7 door leafs,
 18 ea type 8 door leafs,
 4 ea type 8a door leafs,
 6 ea type 9 door leafs,
 4 ea type 10 door leafs,
 5 ea type n interior borrow lite windows,
 11 ea type 6 wd door leafs,
 1 ea misc. access doors,
 55 ea interior single openings door hardware (allowance),
 19 ea interior double openings door hardware (allowance),
 1 sf repair aluminum entrance M&I Allowance,
 33 ea repair aluminum windows M&I Allowance,
 100 sf repair/modify greenhouse windows M&I allowance,
 1 ls misc. glass and glazing for 4- 2'x6' picture windows

FINISHES

Replace 840 sf skim coat plaster @ cylinder exterior walls,
 560 lf 3 5/8 track @ exterior mechanical chase walls,
 2,800 lf 3 5/8 stud and 1 LS miscellaneous framing allowance @ exterior mechanical chase walls,
 1,014 sf metal stud partition, non-load bearing, galvanized, 8' high, 3-5/8" wide, 25 gauge, 16" O.C., includes top & bottom track, with 53 ea fire stopping.
 3,000 sf 1/2" gypsum sheathing @ exterior wall,
 50,400 sf 5/8" gwb @ walls,
 46,500 sf tape and finish sheetrock,
 40 sf waterproofing membrane, mortar bed & mesh @ shower 147B,
 40 sf ceramic floor tile @ 147b,
 70 sf ceramic wall tile @ 147b,
 14 lf ceramic tile base @ 147b,

16,400 sf suspended acoustical ceilings (type 1 through 4),
7,800 sf of preparation and installation of sheet vinyl,
2,000 sf of preparation and installation of vinyl tile,
2,800 lf vinyl base,
200 sf of preparation and installation of rubber tile (landings),
320 lf rubber treads & risers and 1 LS adhesive/fasteners,
124 sy of floor prep and install of carpet,
47,340 sf painting gwb & plaster finishes,
55 ea painting single doors & frames,
19 ea painting double doors & frames,
4,200 lf painting standing and running trim,
840 sf painting wainscoting,
136 sf rfp panels @ custodian 108,
20 lf divider trim,
16 lf inside corner,
76 lf end cap,
1 day patch/repair Vermont slate flooring M&I allowance,

SPECIALTIES

Replace 1 ea toilet stall @ 147A,
74 ea interior signage,
3 ea fire extinguishers & cabinets,
3 ea 24" grab bar,
3 ea 42" grab bar,
1 ea 18"x32" grab bar,
3 ea tp dispenser,
3 ea mirror 24"x34",
3 ea pt dispenser,
1 ea folding shower seat,
1 ea 48" shower curtain & rod,
4 ea robe/coat hooks.

EQUIPMENT

Replace 666 lf metal casework F&I,
666 lf epoxy countertop F&I,
8 ea fume hoods F&I (originally new),
2 ea fume hoods F&I (Originally by owner),
22 sf entry mat & frame @ vestibule 100 (4'x5'6"),
24 sf entry mat & frame @ vestibule 128 (4'6"x5'2"),
15 sf entry mat & frame @ vestibule 100 (4'x3'8")

CONVEYING

Repair or Replace 1 elevator.

The Ag/ Env Lab elevator had several components damaged due to contamination: instead of replacing the cab plywood floor, cab OSB walls, and cab doors that were damaged, replace the entire cab.

This is more economical than replacing the component parts (based on discussion with Kevin Henderson of BGS).

Replace emergency pit limit switches, emergency telephone and emergency light/alarm battery pack which were all damaged due to the flooding. (See Bay State quote, attached).

MECHANICAL

Replace 1 mechanical (heat pump installation),
 30 ea Climatemaster TRC water source heat pump 1.5 t (old units = CL019GRoSHSSMSE, SN C1161468, 208/230v, 60 hz, 1 ph, 9.4 a, 5 kw cool, 6 kw heat, 1/6 HP),
 1 ea remove York 14tn chiller unit m/n YCAL0014SC17XAASDTXLTXLxxxx44, s/n RFHM1770AA,
 1 ea replace 14tn York chiller YCAL0014SC air cooled chiller,
 14 ton Pipe, sub assemblies used in assembly systems, refrigerant piping, per ton, with remote condensing unit, 20 ton (install York),
 2 ea replace McQuay 140tn chiller 24v - 18v METS 50327 transformers,
 1 ea replace McQuay 140tn chiller 860-654873B06 s/n 37358 control board,
 1 ea replace McQuay 140tn chiller control 658160B01 s/n 21109 logic control,
 1 day replace McQuay 140tn chiller control components,
 4 ea replace McQuay 140tn chiller Copeland compressors 6DR3A4000TSN230 & 6DJ3A4000TSN230,
 1 day replace McQuay 140tn chiller Copeland compressor labor,
 1 ea replace McQuay 140tn chiller Gordos PB16 relay,
 1 ea replace McQuay 140tn chiller Automated Logic 2540 control module,
 4 ea replace McQuay 140tn chiller 100amp breaker/relays Type A,
 4 ea replace McQuay 140tn chiller Johnson Control oil pressure switches P12CA1,
 4 ea replace McQuay 140tn chiller GE contactors CR353EGBA100,
 4 ea replace protector/overload modules in McQuay 140tn chiller control panel,
 4 hr service McQuay 140tn chiller GE 400amp safety switch junction blocks for underground wire feed,
 2 ea replace McQuay 140tn chiller compressor solenoid coils,
 42 lf Insulation, pipe covering (price copper tube one size less than I.P.S.), fiberglass with all service jacket, 3" wall, 6" iron pipe size (McQuay chiller),
 8 ea replace McQuay 140tn chiller 12" insulated pipe 90 degree elbows,
 1 day hand excavate & later backfill existing McQuay chiller piping at radius wall (20' back from wall @ ea of 4 pipes),
 2 lf remove Baltimore Air Coil (BAC) cooling tower 12" pipe insulation,
 4 lf replace Baltimore Air Coil (BAC) cooling tower 12" pipe insulation,
 1 ea replace Baltimore Air Coil (BAC) cooling tower Bleimo LF120 US auto-drain timer,
 1 ea repair Baltimore Air Coil (BAC) cooling tower float switch 310620,

1 ea replace Baltimore Air Coil (BAC) cooling tower TACO 1/25hp, 115V, 125PSI, .76A, 60hz cartridge circulator pump/motor Bleimo LF120 US auto-drain timer,
 8 Baltimore Air Coil (BAC) cooling tower submerged junction boxes other electrical connections,
 1 ea replace Baltimore Air Coil (BAC) cooling tower Crouse Hinds heater sump 206V, 12kw, 3phased, m/n 310570,
 1 day service Baltimore Air Coil (BAC) cooling tower cable terminations in lower electrical control panel
 Replace 1 Iwaki EZB15D1VC, 1gph metering pump (hazardous material room beside elevated air handler),
 1 ea replace LMI m/n A15191SL, 1gph metering pump/motor (utility room),
 40 lf replace 6" fiberglass/jacketed pipe insulation (140tn chiller),
 15 ea replace 6" plastic 90 degree pipe insulation elbows,
 42 lf replace 12" fiberglass/jacketed pipe insulation (140tn chiller),
 6 ea replace 12" plastic 90 degree pipe elbow (140tn chiller),
 1 ea replace 12" plastic 22 degree pipe elbow (140tn chiller).

 Install/connect 1- fume hood
 Repair and/or replace 10 ea Laboratory equipment, fume hood, with countertop & base, complex, incl. fixtures, excl. HVAC, 10 day connect/test fume hoods,
 10 ea laboratory equipment, fume hood, service fixtures, average (mtrls).
 Replace 3 ea exterior wall hose bibs,
 57 ea water, gas, drain line hookups for metal casework,
 26 ea water supply line hookups for metal casework,
 1 ea Iwaki EZB15D1VC, 1gph, metering pump (utility room).
 Reconnect ceiling ductwork in 63 rooms after act grid replacement,
 42 lf 3" wall chill water pipe insulation (for 6" McQuay unit piping),
 21 lf insulation, pipe covering (price copper tube one size less than I.P.S.), for fittings, add 3 linear feet for each fitting plus 4 linear feet for each flange of the fitting (McQuay chiller)
 Unclog & Flush 56 Floor Drains and 1 LS mechanical flush waste piping,
 Replace 200 lf demo 1" pvc argon gas piping (S & W walls),
 200 lf replace 1" pvc argon gas piping (S & W walls),
 240 lf demo 1" pvc argon gas piping (E wall),
 240 lf replace 1" pvc argon gas piping (E wall),
 3 ea demo 2" steel pipe (SE wall),
 15 lf replace 2" steel pipe (SE wall),
 12 lf 2" steel pipe (SE wall @ louvered vent) reinstall after masonry repair,
 80 lf Pipe, metal pipe, 4" to 6" diam., selective demolition (at ext radius wall - McQuay 140tn chiller - for masonry wall repair),
 1 system Pipe, sub assemblies used in assembly systems, refrigerant piping, per ton, with remote condensing unit, 100 ton (reinstall removed McQuay piping @ radius wall for masonry repair),
 2 sf replace 6" x 30" metal louvered wall vent (N & E walls),
 24 sf replace 4' x 6' metal louvered wall vent (E corner)

ELECTRICAL

Scope of Work:

Replace 8 ea GE 100amp, 240, 480, 600V, 3phase breakers in main 1600amp service panel,
 7 lf replace 3' x 7' electrical panel metal cover (main panel),
 1 lf replace 3' x 1' electrical panel metal cover (main panel),
 2 lf replace 3' x 2' electrical panel metal cover (main panel),
 lf replace 3' x 3' electrical panel metal cover (main panel),
 2 ea remove/replace Sneider Electric LC1D65A cooling tower panel contactors in Yaskawa
 P7B Drive panel (inside bldg),
 4 hr service Cutler Hammer 200amp, 250V safety switch (@ 140tn chiller),
 1 ea Cutler Hammer 100amp 600V safety switch (@ 14tn chiller)

Replace 23 ea Fluorescent fixture, interior, troffer parabolic lay-in, 2-U32 W T8, 2' W x 2' L, incl
 lamps, mounting hardware and connections,
 16,605 sf Decontamination of asbestos containment area, final cleaning of protected surfaces

Replace 130 wall receptacles with wiring back to nearest junction,
 2 ea remove/replace Magnatech 3/4hp circulating pump motors PN 1015135103 (to elevated air
 handler - SE corner interior) - Motors, drip proof, premium efficiency, 1.15 service factor, 1800
 RPM, 230/460 V, 60 Hz, 3/4 HP,
 1 ea, 220V relay for condensate pump motors (utility room),

Replace 130 Receptacle & switches, 15 to 30 amp, electrical demolition, remove,
 65 clf Wire, THW-THWN-THHN, #12, electrical demolition, removed from in place conduit, to
 15' high

Replace 1 285KW CAT diesel generator,

1 electrical (remove & re-install @ exterior wall)

Remove 1 ea 20a GFI receptacle - exterior wall (at greenhouse),

Replace: 1 ea Duplex receptacle, ground fault interrupting, 20 amp,

240 lf remove 1" metal conduit for 20a GFI receptacle - exterior wall (at greenhouse SE, W
 walls),

1 ea Cutler Hammer 200amp, 250V safety switch (cooling tower)

240 lf re-install rigid galvanized steel conduit, 1" diameter, to 15' H, incl 2 terminations, 2
 elbows, 11 beam clamps, and 11 couplings per 100 LF (at greenhouse, SE, W walls),

2 day remove, later reinstall GE 1,200amp safety switch from exterior wall in order to remove
 block and brick veneer for exterior drywall repairs,

Replace 10 ea telephone wiring terminal blocks (utility room),

1 ea Card reader, basic, interior and exterior, key access, excludes striker/power/wiring (S
 entrance door)

A repair/replacement analysis was performed to determine if the building is eligible for
 replacement per the Repair vs. Replacement of a Facility under 44 CFR §206.226(f) (The 50%
 Rule, FEMA Policy 9524.4). The analysis revealed that the building is not eligible for
 replacement, with a ratio of validated damages/RS Means replacement model of (21.07%) per
 FEMA Policy 9524.4 guidelines) (Refer to attached detailed and expanded analysis within CEF
 spreadsheet).

NOTE: See attached WSOC Critical Action Document.

GENERAL NOTES:

BACKUP DOCUMENTATION:

Complete Documentation has not been compiled as of this date and needs to be on file at the Applicant's office. For auditing purposes, the Applicant must maintain records for a period of 3 years from the date of receipt of final payment.

HAZARD MITIGATION

If Section 406 mitigation is to be done at this location, an amendment to this subgrant application will be created at that time.

CHANGE IN SCOPE OF WORK

In the case of a change in the scope of work and/or a cost overrun, the Applicant must immediately notify the State PA Officer, Ben Rose (ben.rose@state.vt.us) at 802-585-4719.

PERMITS:

Federal funding is contingent upon the Applicant acquiring all Federal, State, and Local Permits. Noncompliance with this requirement may jeopardize the receipt of Federal Funding.

BIDDING:

The Applicant is cautioned when procuring services to follow the bidding requirements of 44 CFR Section 13.36.

DIRECT ADMINISTRATIVE COSTS:

Sub-Grantee is requesting Direct Administrative Costs (DAC) that is directly chargeable to this specific project. Associated eligible work is related to the administration of this PA project only and in accordance with 44 CFR Sec. 13.22. These costs are treated consistently and uniformly as direct costs in all Federal awards and other Sub-Grantee activities and are not included in any approved indirect cost rates.

Sub-Grantee DAC for this project has been estimated based on the following references:

- (a) FEMA Disaster Assistance Policy DAP 9525.9 "Section 324 Management Costs and Direct Administrative Costs" dated March 12, 2008;
- (b) Reasonable Costs Memo from Elizabeth A. Zimmerman dated September 8, 2009;
- (c) Public Assistance Program Indirect and Direct Administrative Activity List; and
- (d) State of Vermont's Force Account Benefits (Fringe) Certification Form.

The following methodology was used to estimate the dollar value of Sub-Grantee DAC for each of three project categories:

- (1) A template was prepared listing all approved Sub-Grantee administrative activities cited in the references;
- (2) Columns were added to estimate the level of effort required to perform each listed activity by project category (Low PA Program Complexity, Medium PA Program Complexity and High PA Program Complexity) based on the following guidance:

* Low PA Program Complexity Project - Large Project, Emergency or Permanent Work, Single Site or Facility, Repair Only, No Special Considerations, Limited Number of Contracts, Limited Potential for Controversy, Total Project Cost Typically <\$1M

** Medium PA Program Complexity Project - Large Project, Emergency or Permanent Work, Single Site or Facility, Repair or Replacement, Alternate or Improved, Manageable Special Consideration (Historic, 406 Mitigation, Substantial Damage), Manageable Number of Contracts, Manageable Potential for Controversy, Total Project Cost Typically \$1M-\$5M

*** High PA Program Complexity Project - Large Project, Emergency or Permanent Work, Multiple Sites or Facilities, Repair or Replacement, Alternate or Improved, Complex Special Considerations (Historic, 406 Mitigation, Substantial Damage), Large Number of Contracts, Significant Potential for Controversy, Total Project Cost Typically >\$5M

(3) The total number of hours to perform all listed activities for each category was then multiplied by the hourly rate of \$55 (rate includes fringe and blended for all positions and all levels);

(4) For the following reasons, the Project Specialist has determined in coordination with the State that this project meets the guidelines for a Medium PA Program Complexity Project: This is a Large Project for Permanent Work and repair, it is a Single Facility with manageable Special Considerations & Number of Contracts, there is a Potential for Controversy, and the Total Project Cost >\$1M.

(5) Accordingly, based on the foregoing methodology, the estimated Sub-Grantee DAC to be included on the Project Worksheet for this project is \$16,610.

At Project Close-Out, Sub-Grantee must provide documentation to establish that all DAC administrative tasks for which reimbursement is sought can be separately identified and assigned to this specific project in compliance with the initial references.

Direct costs are limited to actual reasonable costs incurred for a specific project and are cost-shared at the prevailing cost-share rate for the declaration. If the actual DAC determined eligible at project closeout is lower or higher than initially estimated, the Project Worksheet will be amended accordingly.

SEE THE SPECIAL CONSIDERATION COMMENT SECTION FOR THE FLOODPLAIN COMMENTS AND THE FIRMETTE FOR THE DAMAGE LOCATION RELATIVE TO THE FLOODPLAIN.

A review of the Vermont Fire and Building Safety Code of 2006, in preliminary consultation with the state inspector, was performed for the damaged facilities. Due to the level of repairs required to be performed at this facility as a result of the flooding event, all items in existence at the time of the Incident Storm could be repaired and/or replaced in kind without creating a violation of the said code.

Also, review of the Village of Waterbury's Zoning Regulations reveals that analysis of the costs of repairs in relationship to the "Market Value" cannot be performed at this time (please refer to attached Vermont Fire and Building Safety Code listing).

PA-01-VT-4022-PW-03237(1):

 *** PW # 03237 Amendment 1 ***

The original PW included scope and costs, provided by the Subgrantee (Vermont Department of Building and General Services (BGS)), that were associated with the repair to pre-disaster condition of the subject building. This Amendment addresses the Subgrantee's concerns about items that may not have been identified by the Subgrantee's insurance company plus Floodplain Management requirements.

***Background

BGS provided FEMA with information produced by DBI Construction Consultants LLC (DBI), on behalf of the State's insurance company. The mechanical/electrical/plumbing components (MEP) in the DBI report were provided by the BGS engineer. This combination was then validated by Upland Construction (Upland) and BGS, and was the basis for the version 0 PW. Subsequent to that effort, BGS initiated an effort to demonstrate that this scope (DBI including BGS MEP + Upland) was deficient. FEMA, in conjunction with BGS, developed a guidance document (Attachment A) and in early January, FEMA and Subgrantee representatives re-inspected the building.

***Items Considered

Requested items, validated in the field were added to the repair estimate (see CEF Part A). Items considered can be grouped into three categories:

** 1. Repairs The inspection in January identified and added one item to the scope of work, provide an allowance for reinstallation of drop ceiling mounted devices (Heating grills, smoke detectors, intercom speakers, sprinkler heads on flex piping, etc). Total addition to CEF Part A for Repairs is \$41,346.45
 This results in a CEF total cost for all repairs of \$2,507,933.00 (completed + uncompleted after CEF factors applied)

The Subgrantee also requested additional funds to remove the residue staining the concrete subfloor from the old "cutback" tile adhesive. Based on the Resilient Floor Covering Institute's "Recommended Work Practices for Removal of Resilient Floor Coverings" (Attachment B, Table on pg 23 and text on pg 24), VCT or sheet flooring, either vinyl or felt backed, can be installed over minor amounts of "cutback" adhesive, without further work, as long as "no ridges or puddles are evident and what remains is a smooth film". As a result, no additional work is eligible.

** 2. Floodplain Management Local Codes and Standards

"Substantial Damage" has been determined for this building by the Zoning Administrator (ZA) of the Village of Waterbury. In the letter referenced "FEMA NFIP Substantial Damage Determination", (Attachment D), such determination was based on the information outlined in the Subgrantee's letter to the ZA, dated November 7, 2012, in which the Subgrantee requested "...a flood hazard review by Waterbury Zoning and Planning for buildings in the Waterbury State Office Complex...". (Attachment E)

The Subgrantee submitted information in support of its request, including the fact that: "BGS completed a professional evaluation of this building's market value..." and stated: "On review of this data, it is our belief that the above-referenced building may qualify as substantially damaged. This letter serves to bring this issue to your attention and request review to determine whether the damages are 'substantial' as defined by the Town & Village of Waterbury Zoning Regulations, requiring compliance with relevant conditions and development standards for special flood hazard areas." The letter further supplies the following:

- 1). DBI Damage/Work to be Completed, along with the associated cost-estimate;
- 2). Work Already Completed, along with the actual costs to-date;
- 3). Total Damage Assessment, equaling the total costs of #1 and #2 above; and
- 4). Market Value, with the dollar amount of this new study/market value.

Upon this Substantial Damage determination, FEMA studied (3) flood proofing options which could bring this building into compliance with the Interim Zoning Regulations of May, 2012, which requires flood proofing measures to protect the building to a level equal to (2) feet above the Base Flood Elevation, being the (100) year Flood Plain elevation plus (2) feet, known as (BFE+2):

- 1). Dry proof building by filling block cores, mortar Joints with waterproof mortar, and install flood shield doors;
- 2). Elevate the Building to the BFE+2; and
- 3). Abandoning the Ground or Basement Levels and adding a new Upper Level.

After an analysis of these options FEMA determined that Option 1 (using either exterior wall dry proofing or constructing a perimeter flood wall up against the exterior wall, - depending on the height of protection required) was the most cost effective to achieve code compliance.

Option 1 solution includes all necessary additional material to dry proof the building exterior wall. The labor & materials represents only a small incremental cost increase over simple the simple wall repair included as part of the building repair.

Amendment 1 includes the cost for Option 1 to include dry floodproofing the building by dry proofing exterior wall (Attachment G). The height of the wall is 3.33 FT (BFE+2 = 3.33 AFF) above the finished floor. (Attachment F)

The CEF (Attachment G) includes CEF Part "A" Cost of \$18,998.10 for Floodplain Management code compliance.

This corresponds to a Full CEF cost for Codes & Stds of \$26,452.00

** 3. Codes & Standards other than Floodplain Management

The Subgrantee requested a number of improvements as Codes and Standards requirements. FEMA has determined that those codes and standards do not meet the requirements of 44 C.F.R. § 206.226(d) and FEMA Disaster Assistance Policy No. 9527.4 (Attachment H). As a result none proposed have been added.

***General Comments

Cost -The attached associated cost estimate is provided in the FEMA Cost Estimating Format (CEF). This is the standard format used by FEMA for estimating large projects and utilizes industry-standards approaches and costs. The work elements in the CEF Part A include the entire eligible scope of work completed work cost and develop the entire eligible uncompleted

cost.

ATTACHMENTS

- A. Attachment A: FEMA/BGS Inspection Guidance Document dated 1/7/13.
- B. Attachment B: "Recommended Work Practices for Removal of Resilient Floor Coverings" from the Resilient Floor Covering Institute. (<http://www.rfci.com/images/pdf/recommended-work-practices.pdf>)
- C. Attachment C: Waterbury's Interim Zoning Regulations.
- D. Attachment D: Substantial Damage Letter
- E. Attachment E: Subgrantee's Request for FPM review
- F. Attachment F: Preliminary DFIRM
- G. Attachment G: CEF for Amendment 1
- H. Attachment H: "Codes Standards Analysis FINAL 01 14 2013 Non Historic" when with FPM;

Hazard Mitigation Proposal (HMP):

The additional scope of work is intended to address the FEMA PA funding associated with the HMP for this facility. The Ag Lab was determined to be Substantially Damaged by the Waterbury Municipal Office Planning Department dated January 7, 2013.

Mitigation: The Applicant has requested funding for Hazard Mitigation for this building beyond measures required by Flood Plain Management. The Applicant proposes dry floodproofing, to an elevation of 431.5 (BFE 426.8, 500 yr. elevation = 430.5) by constructing 690 linear foot of reinforced concrete flood wall with brick veneer contiguous to the exterior of the existing building. These walls will be supported by a 2 ft. thick x 8 ft. wide "L" shaped foundation supporting walls that extend 14.5 ft. above the bottom of this foundation. Two (2) 5' x 12.5' and one (1) 10' x 12.5' Flood Doors will be installed in the wall for access. The brick veneer on the visible exterior portion of the flood wall will be consistent with the building's construction. Costs for the proposed HMP were determined using RS Means Costworks 2013 V15.17 and applying appropriate CEF cost factors to account for design, construction, and project management. The scope of flood plain management compliance requirement measures will be subsumed on to the 406 Hazard Mitigation and the cost (\$26,452) will be avoided by the proposed HMP. The flood plain management compliance requirement measures are document in the CEF dated January 14, 2013, which includes dry floodproofing the walls by filling the block cores and mortar joints with waterproof mortar and installing flood-shield doors under the Codes & Stds (FPM) section. A sketch of the HMP contiguous flood wall and the cost estimate are included in the HMP CEF.

Eligibility: Dry Floodproofing mitigation is covered in Appendix A of FEMA 9526.1 - Hazard Mitigation Funding Under Section 406 (The 100% rule). Estimated cost for the HMP is \$1,785,678, which is equal to the total HMP CEF cost minus the work avoided (\$1,812,130 - \$26,452). The Ag Lab building suffered damages totaling \$2,596,380 (including flood plain

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management compliance). This results in mitigation costs of 68.78% of the "Irene" damages, and meets the requirements of Appendix A of FEMA 9526.1, which states "The following potential mitigation measures (reference paragraph VII.B.2) are determined to be cost-effective if they: do not exceed 100% of project cost, are appropriate to the disaster damage, will prevent future similar damage, are directly related to the eligible damaged elements, do not increase risks or cause adverse effects to the property or elsewhere, are technically feasible for the hazard and location, and otherwise meet requirements stipulated in this policy, including environmental, historic, and mitigation planning considerations."

The Applicant has indicated that they intend to demolish the Agricultural and Environmental Laboratory (AG Lab). Once the Applicant determines what they are going to do with the function of the Ag Lab, they can submit for a funding option under Standard Procedures or elect to use alternative procedures under the Sandy Recovery Improvement Act (SRIA). Note – Agreement to a SRIA Fixed Estimate must be received within 9 months from May 20, 2013 and a Consolidated Project request within 12 months from May 20, 2013.

Hazard Mitigation Proposal

Is effective mitigation feasible on this site?

If you answered Yes to the above question, the next question is required

Will mitigation be performed on this site?

If you answered Yes to the above question, the next question is required

Do you wish to attach a Hazard Mitigation Proposal?

If you answered Yes to the above question, the next two questions are required

Please provide the Scope of Work for the estimate:

(maximum 4000 characters)

Would you like to add the Hazard Mitigation Proposal as a cost line item to the project cost?

GIS Coordinates

Project Location	Latitude	Longitude
Ag Lab Building	44.33049	-72.75199

Special Considerations

1. Does the damaged facility or item of work have insurance coverage and/or is it an insurable risk (e.g., buildings, equipment, vehicles, etc)?

Yes

If you would like to make any comments, please enter them below.

(maximum 4000 characters)

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See Insurance Information page.

2. Is the damaged facility located within a floodplain or coastal high hazard area and/or does it have an impact on a floodplain or wetland?	Yes
--	-----

If you would like to make any comments, please enter them below.

(maximum 4000 characters)

THE DAMAGED FACILITY IS LOCATED WITHIN THE 100 YEAR FLOOD PLAIN. SEE PANEL 500122 0001 C REVISED APRIL 6, 1998.

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?	No
---	----

4. Will the proposed facility repairs/reconstruction change the pre-disaster conditions (e.g., footprint, material, location, capacity, use of function)?	No
---	----

5. Does the applicant have a hazard mitigation proposal or would the applicant like technical assistance for a hazard mitigation proposal?	No
--	----

If you would like to make any comments, please enter them below.

(maximum 4000 characters)

If Section 406 is to be done at this location, an amendment to this Subgrant Application will be created at that time.

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 more, similar buildings near the site?	No
---	----

If you would like to make any comments, please enter them below.

(maximum 4000 characters)

See attached Final Environmental Assessment. See Attached Table 3.4-2 National Register Listed within WSOC.

7. Are there any pristine or undisturbed areas on, or near, the project site? Are there large tracts of forestland?	No
---	----

8. Are there any hazardous materials at or adjacent to the damaged facility and/or item of work?	No
--	----

9. Are there any other environmental or controversial issues associated with the damaged facility and/or item of work?	No
--	----

Attachments

User	Date	Document Type	Description	Hard Copy File Reference	File Name	Action
JOSEPH EMERSON JR	09-10-2012	Floodplain	Ag Lab Firmette		Ag Lab Firmette.pdf(801.95 kb)	View
JOSEPH EMERSON JR	09-10-2012	Floodplain	Revised Preliminary Special Flood Hazard Area		Revised Prelim Special Flood Area_fig1_sm.pdf(1.12 Mb)	View
WILLIAM CHASE	11-16-2012	Environmental/Historic Document	Final EA	with PW	Final EA historic building list.pdf(981.25 kb)	View
SHARLA	11-	Environmental/Historic			FONS WSOC _REO signed_09-28-	

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AZIZI	19-2012	Document	FONSI		2012v2.pdf(189.37 kb)	View
GALEN COSTIGAN	11-19-2012	Environmental/Historic Document	Table 3.4-2 National Register Listed within WSOC.		Final EA historic building list.pdf(981.25 kb)	View
DAWN REICH	02-26-2013	Project Worksheet	Spaulding letter		Spaulding - Notice of Substantial Damage Determination for 7 Buildings.pdf(109.43 kb)	View
DAWN REICH	02-26-2013	PW Correspondence	Obuchowski letter		Obuchowski-Notice of Substantial Damage Determination for 7 Buildings.pdf(66.40 kb)	View

For Category C, D, E, F, and G Projects only

Is effective mitigation feasible on this project?	No
If you answered Yes to the above question, the next question is required	
Will mitigation be performed on any sites in this project?	No
If you answered Yes to the above question, the next question is required	
Do you wish to attach a Hazard Mitigation Proposal?	No
If you answered Yes to the above question, the next two questions are required	
Please provide the Scope of Work for the estimate:	
Would you like to add the Hazard Mitigation Proposal as a cost line item to the project cost?	No

Comments

Attachments

User	Date	Document Type	Description	Hard Copy File Reference	File Name	Action
FRANK NAUMAN	08-20-2013	Mitigation Proposal	HMP	HMP	Ag Lab HMP.xls(1.18 Mb)	View
FRANK NAUMAN	08-20-2013	Mitigation Proposal	CEF for HMP	CEF for HMP	CEF Ag Env Lab MAX HMP Floodwall 08.08.13.xlsm(3.95 Mb)	View
FRANK NAUMAN	08-20-2013	Mitigation Proposal	SOW Superseded	SOW Superseded	Repair SOW Superseded by HMP for Ag Lab 08.14.2013.xlsx(12.22 kb)	View

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Cost Estimate

Is this Project Worksheet for

Cost Estimate Format

(Preferred) Repair									
Sequence	Code	Material and/or Description	Unit Quantity	Unit of Measure	Unit Price	Subgrant Budget Class	Type	Cost Estimate	Action
1	0000	WORK TO BE COMPLETED						\$ 0.00	
2	9000	CEF COST ESTIMATE	1	LS	\$ 2,415,545.00	CONSTRUCTION		\$ 2,415,545.00	
3	9901	DIRECT ADMINISTRATIVE COSTS (SUBGRANTEE)	1	LS	\$ 16,610.00	INDIRECT CHARGES		\$ 16,610.00	
4	0000	AMENDMENT NO 1						\$ 0.00	
5	9999	DEDUCT VERSION (0) COSTS	-1	LS	\$ 2,432,155.00	CONSTRUCTION		\$ -2,432,155.00	
6	0000	AMENDMENT NO 1 WORK TO BE COMPLETED						\$ 0.00	
7	9999	Total Proj Cost after Amendment 1	1	LS	\$ 2,507,933.00	CONSTRUCTION		\$ 2,507,933.00	
8	9999	Total PW DAC after amendment 1	1	LS	\$ 16,610.00	OTHER		\$ 16,610.00	
9	0909	MITIGATION	1	LS	\$ 1,785,678.00	CONSTRUCTION		\$ 1,785,678.00	
Total Cost :								\$ 4,310,221.00	

Insurance Adjustments (Deductibles, Proceeds and Settlements) - 5900/5901									
Sequence	Code	Material and/or Description	Unit Quantity	Unit of Measure	Unit Price	Subgrant Budget Class	Type	Cost Estimate	Action
1	5901	INSURANCE PROCEEDS (ANTICIPATED)	1	LS	\$ -2,415,545.00			\$ -2,415,545.00	
2	0000	AMENDMENT NO 1						\$ 0.00	
3	9999	DEDUCT INSURANCE PROCEEDS (ANTICIPATED)	1	LS	\$ 2,415,545.00	OTHER		\$ 2,415,545.00	
4	5901	INSURANCE PROCEEDS (ANTICIPATED)	1	LS	\$ -2,507,933.00			\$ -2,507,933.00	
Total Cost :								\$ -2,507,933.00	

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Total Cost Estimate:		\$ 1,802,288.00
(Preferred Estimate Type - Insurance Adjustments)		

Comments

Attached: Ag Lab DBI Report, Upland Report, Ag Lab CEF Documentation, DAC Methodology.

Attachments

User	Date	Document Type	Description	Hard Copy File Reference	File Name	Action
JOSEPH EMERSON JR	09-12-2012	Insurance Analysis Data Sheet	Ag Lab DBI Report		VTSTATE AG Building Analysis 120208.pdf(144.64 kb)	View
JOSEPH EMERSON JR	09-12-2012	Calculation Sheet	Upland Report		Upland Report.pdf(543.95 kb)	View
GALEN COSTIGAN	09-25-2012	Additional Information	DAC Methodology		Estimating Subgrantee DAC 09-10-12.docx(37.61 kb)	View
GALEN COSTIGAN	10-26-2012	Calculation Sheet	Ag Env Lab CEF		Oct 26 CEF Ag - Env Lab.xlsm(370.95 kb)	View

Existing Insurance Information

Insurance Type	Policy No.	Bldg/Property Amount	Content Amount	Insurance Amount	Deductible Amount	Years Required
General	21565511	\$ 300,000,000.00	\$ 300,000,000.00	\$ 300,000,000.00	\$ 250,000.00	1

Required Insurance Information

Insurance Type	Policy No.	Bldg/Property Amount	Content Amount	Insurance Amount	Deductible Amount	Years Required
Flood	TBD	\$ 1,785,678.00	\$ 0.00	\$ 1,785,678.00	\$ 0.00	0

Insurance Adjustments (Deductibles, Proceeds and Settlements) - 5900/5901

#	Code	Material and/or Description	Unit Quantity	Unit of Measure	Unit Price	Subgrant Budget Class	Type	Cost Estimate	Action
1	5901	INSURANCE PROCEEDS (ANTICIPATED)	1	LS	\$ -2,415,545.00			\$ -2,415,545.00	
2	0000	AMENDMENT NO 1							
3	9999	DEDUCT INSURANCE PROCEEDS (ANTICIPATED)	1	LS	\$ 2,415,545.00	OTHER		\$ 2,415,545.00	

4	5901	INSURANCE PROCEEDS (ANTICIPATED)	1	LS	-2,507,933.00	\$				\$ -2,507,933.00	
Total Cost: \$ -2,507,933.00											

Comments											
Insurance Documents, Declaration Page, Insurance Policy											
Attachments											

User	Date	Document Type	Description	Hard Copy File Reference	File Name	Action
GALEN COSTIGAN	10-02-2012	Insurance Document	Declaration Page		Dec Page.pdf(193.71 kb)	View
GALEN COSTIGAN	10-02-2012	Insurance Document	Insurance Policy		Lexington Ins.State Policy No 021565511.pdf(2.10 Mb)	View

Name of Section		Comment		Attachment	
Preparer Information		Grantee-approved time extension to 9/1/2015.		Grantee-approved time extension.pdf (03-28-2015) FINAL 4022-DR-VT Dept of Buildings and General Services PW-3237 (Ag Lab) Improved Project and IE Response (19 Oct 15).pdf (10-19-2015) AdLab Scope of Work.pdf (09-18-2015)	
Contact Information				Ag Lab location map(1).pdf (07-31-2012) WSOC MapAg Lab Building.pdf (09-28-2012) 2nd Appeal - Palo Cooperative Telephone Assoc. 9 11 12(1).pdf (11-15-2012) 2nd Appeal - Magnolia Junior High School 7 17 2008(1).pdf (11-15-2012) WSOC Critical Action Determination.pdf (11-15-2012) Letter re Status of Agricultural Lab 121 and 123 S	
Project Description		Attached: Ag Env Lab Location Maps, Appeal Documents, & WSOC Critical Action Document.			

<https://source.ama.gouv.ma/newApplication.do?voireviewId=&opTitle=basilHeader&voInternalWorkInstanceId=&voInternalGoBackUrl=&pageIndex=&voInternalName=&bottomTitle=&pageIndexType=view&vo.secto...> 31/6/2

<https://source.kenya.gov/lemmle/wApplication.do?vo.reviewerId=8topTitle=BasicHeader&vo.informationId=&vo.informationName=&pageNavigation=&pageType=view&vo.sectio>

	Insurance Information		Form 90-91	<p>State Letter to FEMA Region 1 RA Request for Improved Project and Time Extension for Ag Lab PW 3237 (in 2 parts). Letter from FEMA Region 1 RA acknowledging receipt of Improved Project and Time Extension request to State of Vermont. Response letter from FEMA Region 1 (dated 10/19/2015) approving Time extension and conditional approval of Improved Project at new location in Randolph (VTC Campus).</p>	<p>4022-DR-VT Dept of Building and General Services PW-3237 (Ag Lab) Improved Project and TE Services PW-3237 (Ag Lab) Improved Project and TE Response (19 Oct 15).pdf (10-23-2015)</p> <p>4022-DR-VT UPS Confirm PW-3237.pdf (11-18-2015)</p>
				<p>Ag Lab PW 3237 Request to FEMA for Improved Project and Time Extension Part 1.pdf (07-27-2015)</p> <p>Ag Lab PW 3237 Request to FEMA for Improved Project and Time Extension Part 2.pdf (07-27-2015)</p> <p>FEMA Region 1 RA letter acknowledging receipt of Improved Project and Time Extension request to State.pdf (07-27-2015)</p> <p>FINAL 4022-DR-VT Dept of Building and General Services PW-3237 (Ag Lab) Improved Project and TE Services PW-3237 (Ag Lab) Improved Project and TE Response (19 Oct 15).pdf (10-23-2015)</p>	<p>Ag Lab PW 3237 Request to FEMA for Improved Project and Time Extension Part 1.pdf (07-27-2015)</p> <p>Ag Lab PW 3237 Request to FEMA for Improved Project and Time Extension Part 2.pdf (07-27-2015)</p> <p>FEMA Region 1 RA letter acknowledging receipt of Improved Project and Time Extension request to State.pdf (07-27-2015)</p> <p>FINAL 4022-DR-VT Dept of Building and General Services PW-3237 (Ag Lab) Improved Project and TE Services PW-3237 (Ag Lab) Improved Project and TE Response (19 Oct 15).pdf (10-23-2015)</p> <p>4022-DR-VT UPS Confirm PW-3237.pdf (11-18-2015)</p>
				<p>PW 3237 PAAP Permanent Work Acknowledgement.pdf (06-17-2014)</p> <p>PW 3237 Fixed Subgrant Letter.pdf (06-17-2014)</p> <p>4022-DR-VT Dept of Building and General Services PW-3237-Ag Lab.pdf (09-18-2015)</p> <p>Fixed estimate agreement for Ag Lab.pdf (09-18-2015)</p> <p>VT Collaborative Laboratory VTC DHP 1-22-15 Comment.pdf (09-18-2015)</p>	<p>PW 3237 PAAP Permanent Work Acknowledgement.pdf (06-17-2014)</p> <p>PW 3237 Fixed Subgrant Letter.pdf (06-17-2014)</p> <p>4022-DR-VT Dept of Building and General Services PW-3237-Ag Lab.pdf (09-18-2015)</p> <p>Fixed estimate agreement for Ag Lab.pdf (09-18-2015)</p> <p>VT Collaborative Laboratory VTC DHP 1-22-15 Comment.pdf (09-18-2015)</p>
				<p>Lexington Ins.State Policy No 021565511.pdf (10-02-2012)</p> <p>Dec Page.pdf (10-02-2012)</p>	<p>Lexington Ins.State Policy No 021565511.pdf (10-02-2012)</p> <p>Dec Page.pdf (10-02-2012)</p>
				<p>Oct 26 CEF Ag-Env Lab.xlsx (10-26-2012)</p>	<p>Oct 26 CEF Ag-Env Lab.xlsx (10-26-2012)</p>
				<p>Date Awarded</p>	<p>Date Awarded</p>
				<p>Bundle Reference # (Amendment #)</p>	<p>Bundle Reference # (Amendment #)</p>
				<p>PA-01-VT-4022-State-0191(185)</p>	<p>PA-01-VT-4022-State-0191(185)</p>

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Subgrant Application - FEMA Form 90-91

Note: The Effective Cost Share for this application is 90%

FEDERAL EMERGENCY MANAGEMENT AGENCY PROJECT WORKSHEET					
DISASTER		PROJECT NO.		PA ID NO.	DATE
FEMA	4022	- DR -VT	JEBGSAL	000-US9QN-00	10-12-2012
APPLICANT: VT DEPARTMENT OF BUILDINGS & GENERAL SERVICES				WORK COMPLETE AS OF:	
				07-24-2012 : 0 %	
Site 1 of 1					
DAMAGED FACILITY:				COUNTY: Washington	
AG/ENV LAB (Building #06394)					
LOCATION:				LATITUDE:	LONGITUDE:
PA-01-VT-4022-PW-03237(0): The Ag/Env Lab (Building # 06394) is located in the southern portion of the WSOC campus approx. 610' southwest of the intersection of the South Entrance on Outer Loop Road and South Main St (Route 2 and Route 100). The GPS coordinates at the entrance to the Ag/Env Lab are 44.33049 and -72.75199. The structure lies within the 500 year flood zone. (See attached location map & Flood Plain Attachments.) PA-01-VT-4022-PW-03237(1): PA-01-VT-4022-PW-03237(2):				44.33049	-72.75199
Current Version:					
DAMAGE DESCRIPTION AND DIMENSIONS:					
PA-01-VT-4022-PW-03237(0): As a result of the flooding from Tropical Storm Irene, incident period of August 28th through September 2, 2011 the Agricultural and Environmental Laboratory (Ag/Env Lab) building sustained damage on the first floor. (See attachments for a floor plan of the Ag/Env Lab's first floor.) The structure is a 33,210 Square Foot (SF), 2 story brick building containing that was constructed in 1990. The use of the building at the time of the incident was as a laboratory for the Vermont Agency of Agriculture (Division of Food Safety and Consumer Protection) and the Vermont Department of Environmental Conservation. The Ag/Env Lab is under the authority of the Vermont Agency of Buildings and General Services (BGS) hereinafter referred to as Applicant. (See the attached Function and Use Spreadsheet and Building Summary Report.) Floodwater reached a height of approximately 2.83' on the 15,119 sq. ft. first floor inundating floors, walls, electrical equipment, HVAC components, cabinetry, and the elevator. There was no damage to the upper floor. The loss estimates for the Ag/Env Lab are based upon multiple site inspections by DBI estimators and site inspections by FEMA representatives (See Facility Assessment Job Aid Template attached). Damage estimates for mechanical, electrical, and plumbing items in the DBI report were based on estimates by Vermont state engineers and subsequently validated through use of R. S. Means. Elevator estimates are from a quote provided by Bay State Elevator Company, the usual service contractor for WSOC elevators. DBI Construction Consultants is an engineering firm hired by the Lexington Insurance Company to provide these estimates. (See DBI & Upland Reports) The damaged elements include: MASONRY					

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2,492 sf masonry (534 lf x 4'8" high), 528 sf masonry (66 lf x 8' high) were damaged and stained by the flood waters.

METALS

3, ea, pipe rails @ stair A B C, & 2 ea new pipe rails @ vestibule A & B damaged by flood waters and debris.

WOODS & PLASTICS

Items sustaining water damage from the flood waters were: 100 lf PT of 2x8 wood sleepers,

240 lf of PT 2x6 deck,

32 sf of 1/2" ply @ type B1 window head 12" wide,

60 ea of PT 2x6 nailer @ B1 window jamb,

1,650 ea of misc. blocking,

320 lf of 4/4x5 hwd jamb,

200 lf of 1/2x2 hwd stop,

656 lf of 4/4x4 hwd casing,

240 lf of 1/2x1 1/4 hwd stop,

40 lf of 3/4x6 hwd base w/champ,

40 lf of 3/4x4 hwd chair rail w/rabbit,

160 lf of 3/8 x 3 1/2 hwd wainscot (40sf),

40 lf of 1x2 hwd sill,

155 lf of 5/4x12 hwd sill,

155 lf of 5/4x4 hwd apron,

20 lf of 5/4x14 hwd sill,

20 lf of 3/4x4 hwd apron,

24 lf of 4/4x4 hwd casing,

24 lf of 4/4x8 hwd jamb,

64 lf of 3/4x12 hwd of skirt board @ stair b,

20 lf of 3/4x12 hwd skirt board @ vestibule stairs,

825 lf of 3/4x4 hwd chair rail,

215 lf of 3/4x4 hwd chair rail w/rabbit,

1,035 lf of 3/4x6 hwd base w/champ,

800 lf of 3/8x3 hwd wainscot,

6 lf of 5/4x18 hwd sill @ lobby niche (2ea x 3'),

20 lf of 12/a-10 5/4x4 trim,

20 lf of 12/a-10 3/4x4 trim,

16 lf of 5/a-13 3/4x4 elevator trim,

6 lf of 5/a-13 3/4x10 elevator trim,

4 ea hardwood benches,

1 ea reception desk,

2 ea MDO shelving units,

1 ea 5 adjustable shelves,

2 ea cabinets & counters,

2 ea 3 adj. shelves,

2 ea PL lavatory tops @ toilet rooms.

THERMAL & MOISTURE PROTECTION

Also sustaining soaking and damage from the high waters from the high waters were:

3,000 sf of 6" fg batt insulation w/kraft face @ ext walls,

1,100 sf of 3-1/2" fg batt insulation w/kraft face @ drum ext walls,

4,100, sf, of 6 mil poly vb @ exterior walls,

150 sf of 3-1/2" fg batt insulation w/kraft face above ceiling room 103,

5,500 sf of 3-1/2" fg batt insulation w/kraft face @ int walls, and

3,000 sf of air barrier @ exterior walls.

3,000 sf of concrete Floors stained.

DOORS & WINDOWS

Doors and windows sustaining water damage were :

2 ea of type d frames - double door,

1 ea of type d frames - single door,

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16 ea of type e frames - double door,
44 ea of type e frames - single door,
1 ea of type r frames - double w/transom,
6 ea of type 3 door leafs,
2 ea of type 3a door leafs,
25 ea of type 4 door leafs,
6 ea of type 5 door leafs,
2 ea of type 6 door leafs,
15 ea of type 7 door leafs,
18 ea of type 8 door leafs,
4 ea of type 8a door leafs, 6 ea of type 9 door leafs,
4 ea of type 10 door leafs,
5 ea of type n interior borrow lite windows,
11 ea of type 6 wd door leafs,
1 ea of misc. access doors,
55 ea of interior single openings door hardware,
19 ea of interior double openings door hardware,
1 sf of aluminum entrance,
33 ea of aluminum windows,
100 sf of greenhouse windows.
4- Ea -2'x6' picture windows

FINISHES

Wall, Ceiling, & Incidentals water damaged or stained were:
840 sf of skim coat plaster @ cylinder exterior walls,
560 lf of 3 5/8 track @ exterior mechanical chase walls,
2,800 lf of 3 5/8 stud @ exterior mechanical chase walls,
1,014 sf of Metal stud partition, 3-5/8" wide, 25 gauge, 16" O.C.,
3,000 sf of 1/2" gypsum sheathing @ exterior wall,
50,400 sf of 5/8" gwb @ walls,
46,500 sf tape and finish sheetrock,
40 sf of waterproofing membrane, mortar bed & mesh @ shower 147B,
40 sf of ceramic floor tile @ 147b,
70 sf of ceramic wall tile @ 147b,
14 lf of ceramic tile base @ 147b,
16,400 sf of suspended acoustical ceilings (type 1 through 4),
7,800 sf of sheet vinyl,
2,000 sf of vinyl tile,
2,800 lf of vinyl base,
200 sf of rubber tile (landings),
320 lf of rubber treads & risers,
124 sy of carpet,
47,340 sf plaster finishes,
55 ea of single doors & frames,
19 ea of double doors & frames,
4,200 lf of standing and running trim,
840 sf of wainscoting,
136 sf of rfp panels @ custodian 108,
20 lf of divider trim,
16 lf of inside corner,
76 lf of end cap,
Various Areas of Minor Slate Floor damage

SPECIALTIES

Specialty items which sustained water damage were:
1 toilet stall @ 147A,
74 ea of interior signage,

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3 ea of fire extinguishers & cabinets,
3 ea of 24" grab bar,
3 ea of 42" grab bar,
1 ea of 18"x32" grab bar,
3 ea of tp dispenser,
3 ea of mirrors 24"x34",
3 ea of pt dispenser,
1 ea of folding shower seat,
1 ea of 48" shower curtain & rod,
4 ea of robe/coat hooks.

EQUIPMENT

Fixtures which sustained damage from the high water included the following:

666 lf of metal casework F&I,
666 lf of epoxy countertop F&I,
8 ea of fume hoods F&I (originally new),
2 ea of fume hoods F&I (Originally by owner),
22 sf of entry matt & frame @ vestibule 100 (4'x5'6"),
24 sf of entry matt & frame @ vestibule 128 (4'6"x5'2"),
15 sf of entry matt & frame @ vestibule 100 (4'x3'8")

CONVEYING

Also water damaged was: 1 elevator: The elevator in the Ag/Env Lab had returned to its "neutral" location at the first floor level after it was last used as it was intended to do. Because it was at the first floor level it had several components damaged due to contamination: the cab plywood floor, cab OSB walls, and cab doors were damaged and require replacement. Emergency pit limit switches, emergency telephone and emergency light/alarm battery pack were all damaged also.

MECHANICAL

Also damaged by the high waters were:

1 mechanical (heat pump installation),
30 ea Climatmaster TRC water source heat pump 1.5 t (old units = CL019GRoSHSSMSE, SN C1161468, 208/230v, 60 hz, 1 ph, 9.4 a, 5 kw cool, 6 kw heat, 1/6 HP),
1 York 14tn chiller unit m/n YCAL0014SC17XAASDTXLTXRLxxx44, s/n RFHM1770AA,
1 14tn York chiller YCAL0014SC air cooled chiller,
14 ton Pipe, sub assemblies used in assembly systems, refrigerant piping, per ton, with remote condensing unit, 20 ton (install York),
2 McQuay 140tn chiller 24v - 18v METS 50327 transformers,
1 McQuay 140tn chiller 860-654873B06 s/n 37358 control board,
1 McQuay 140tn chiller control 658160B01 s/n 21109 logic control,
1 McQuay 140tn chiller control components,
4 McQuay 140tn chiller Copeland compressors 6DR3A4000TSN230 & 6DJ3A4000TSN230,
1 McQuay 140tn chiller Gordos PB16 relay,
1 McQuay 140tn chiller Automated Logic 2540 control module,
4 McQuay 140tn chiller 100amp breaker/relays Type A,
4 McQuay 140tn chiller Johnson Control oil pressure switches P12CA1,
4 McQuay 140tn chiller GE contactors CR353EGBA100,
4 protector/overload modules in McQuay 140tn chiller control panel,
2 McQuay 140tn chiller compressor solenoid coils,
Also water saturated
42 lf insulation, pipe covering (price copper tube one size less than I.P.S.), fiberglass with all service jacket, 3" wall, 6" iron pipe size (McQuay chiller), 8 McQuay 140tn chiller 12" insulated pipe 90 degree elbows,
2 lf Baltimore Air Coil (BAC) cooling tower 12" pipe insulation,
4 lf Baltimore Air Coil (BAC) cooling tower 12" pipe insulation,
1 Baltimore Air Coil (BAC) cooling tower Bleimo LF120 US auto-drain timer,
1 Baltimore Air Coil (BAC) cooling tower float switch 310620,
1 Baltimore Air Coil (BAC) cooling tower TACO 1/25hp, 115V, 125PSI, .76A, 60hz cartridge circulator pump/motor Bleimo LF120 US auto-drain timer,
8 Baltimore Air Coil (BAC) cooling tower submerged junction boxes other electrical connections,
1 Baltimore Air Coil (BAC) cooling tower Crouse Hinds heater sump 206V, 12kw, 3phased, m/n 310570,

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1. Iwaki EZB15D1VC, 1gph metering pump (hazardous material room beside elevated air handler),
1 LMI m/h A15191SL, 1gph metering pump/motor (utility room),
40 ft 6" fiberglass/jacketed pipe insulation (14In chiller),
15- 6" plastic 90 degree pipe insulation elbows,
42 ft 12" fiberglass/jacketed pipe insulation (140In chiller),
6 - 12" plastic 90 degree pipe elbow (140In chiller),
1- 12" plastic 22 degree pipe elbow (140In chiller).

Also damaged by high waters were:

1- fume hood
10 fume hoods, with countertop & base, complex, incl. fixtures, exd. HVAC
Also water damaged were:
3 exterior wall hose bibs,
57 water, gas, drain line hookups for metal casework,
26 water supply line hookups for metal casework,
1 Iwaki EZB15D1VC, 1gph, metering pump (utility room).

Also damaged by the flood waters were:

Ceiling ductwork: 42 ft of 3" wall chill water pipe insulation (for 6" McQuay unit piping),
21 ft of insulation, pipe covering for fittings (McQuay chiller).

Also damaged were:

56 floor drains plugged with debris.
Also impacted by damage from the storm:
200 ft 1" pvc argon gas piping (S & W walls),
200 ft 1" pvc argon gas piping (S & W walls),
240 ft 1" pvc argon gas piping (E wall),
240 ft 1" pvc argon gas piping (E wall),
3 ea 2" steel pipe (SE wall),
15 ft 2" steel pipe (SE wall),
12 ft 2" steel pipe (SE wall @ louvered vent)
80 ft Pipe, metal pipe, 4" to 6" diam., selective
1 system Pipe, sub assemblies used in assembly systems, refrigerant piping, per ton, with remote condensing unit, 100 ton
2 sf -6" x 30" metal louvered wall vent (N & E walls),
24 sf -4' x 6' metal louvered wall vent (E corner)

ELECTRICAL

Also damage to electrical items by water were:

8 ea replace GE 100amp,
240, 480, 600V, 3phase breakers in main 1600amp service panel,
7 ft 3' x 7' electrical panel metal cover (main panel),
1 ft 3' x 1' electrical panel metal cover (main panel),
2 ft 3' x 2' electrical panel metal cover (main panel),
3 ft 3' x 3' electrical panel metal cover (main panel),
2 ea Sneider Electric LC1D65A cooling tower panel contactors in Yaskawa P7B Drive panel (inside bldg),
4 Cutler Hammer 200amp, 250V safety switches (@ 140In chiller),
1 ea Cutler Hammer 100amp 600V safety switch (@ 14In chiller)

Also water damaged were lighting fixtures:

23 ea Fluorescent fixture, interior, troffer parabolic lay-in,
2-U32 W T8, 2' W x 2' L, incl lamps, mounting hardware and connections,

Also damaged were:

130 ea wall receptacles with wiring back to nearest junction,
2 ea remove/replace Magnatech 3/4hp circulating pump motors PN 1015135103 (to elevated air handler - SE corner interior) - Motors, drip proof, premium efficiency, 1.15 service factor, 1800 RPM, 230/460 V, 60 Hz, 3/4 HP

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Also damaged were:

1 ea 220V relay for condensate pump motors (utility room)
130 ea Receptacle & switches,
15 to 30 amp, electrical, 65 cft Wire, THW-THWN-THHN,
Also damaged was: 1 ea 285KW CAT diesel generator #1

Water Electrical damage:

1 -20a GFI receptacle - exterior wall (at greenhouse),
1, ea, Duplex receptacle, ground fault interrupting; 20 amp,
240 lf 1" metal conduit for 20a GFI receptacle - exterior wall (at greenhouse SE, W walls) ,
1 ea Cutler Hammer 200amp, 250V safety switch (cooling tower),
10-telephone wiring terminal blocks (utility room),
1 ea Card reader, basic, interior and exterior, key access, excludes striker/power/wiring (S entrance door)

The laboratory equipment housed in the Applicant's Ag Env Lab Building is considered contents and thus is not to be included in the Ag Env Lab Building's Project Worksheet or in the Ag Env Lab Building's 50% calculations. (See Attached Ruling Second Appeal Brief 1763-DR-IA PA ID # 113-UUK61-00).

PA-01-VT-4022-PW-03237(1):

*** Amendment 1 ***

This building has been determined to be "Substantially Damaged". See Scope of Work for details

See: Attachment D: Substantial Damage Letter

Attachment & E: Subgrantee's Request for FPM review

PA-01-VT-4022-PW-03237(2):

Current Version:

SCOPE OF WORK:

PA-01-VT-4022-PW-03237(0):

SCOPE OF WORK:

Completed work: the Applicant hired G W Savage Corp, for building stabilization, selective demolition, and clean-up which have already been completed and the work and costs are captured in a Category B PW #03072 for the Applicant.

This Cat B Emergency work is not to be considered in the 50% Rule analysis. In accordance with 44 CFR 206.226(d) (1.) See Attached Second Appeal Analysis FEMA-1604-DR-MS PA ID # 059-00EE2-00.

Electricity (Norway & Sons) was provided and heat to dry out wet components and prevent freezing during the winter.

The temporary heating units (5-Heat Pumps) were provided by a separate contract (Alliance Mechanical) The costs associated with this completed work is not part of this Project Worksheet but contained in PW # 03248 for the Applicant.

The permanent work necessary to return the building to pre-disaster condition is included in the DBI estimate as noted in the damage description above.
A CEF was created independently to validate the estimate provided by DBI.

Work to be completed to return the facility to predisaster condition includes: (See DBI REPORT & CEF Attached.)

MASONRY

Clean 2,492 sf masonry (534 lf x 4'8" high)
528 sf masonry (66 lf x 8' high),

METALS

Replace 3 ea re-install pipe rails @ stair A B C,
2 ea new pipe rails @ vestibule A & B

WOODS & PLASTICS

Replace 100 lf PT 2x8 sleepers @ hazardous waste floor,
 240 lf PT 2x6 deck @ hazardous waste floor,
 32 sf 1/2" ply @ type B1 window head 12" wide,
 60 ea PT 2x6 nailer @ B1 window jamb,
 1,650 ea misc. blocking, 320 lf 4/4x5 hwd jamb,
 200 lf 1/2x2 hwd stop, 656 lf 4/4x4 hwd casing,
 240 lf 1/2x1 1/4 hwd stop,
 40 lf 3/4x6 hwd base w/champ,
 40 lf 3/4x4 hwd chair rail w/rabbit,
 160 lf 3/8 x 3 1/2 hwd wainscot (40sf),
 40 lf 1x2 hwd sill,
 155 lf 5/4x12 hwd sill,
 155 lf 5/4x4 hwd apron,
 20 lf 5/4x14 hwd sill,
 20 lf 3/4x4 hwd apron,
 24 lf 4/4x4 hwd casing,
 24 lf 4/4x8 hwd jamb,
 64 lf 3/4x12 hwd skirt board @ stair b,
 20 lf 3/4x12 hwd skirt board @ vestibule stairs,
 625 lf 3/4x4 hwd chair rail,
 215 lf 3/4x4 hwd chair rail w/rabbit,
 1,035 lf 3/4x6 hwd base w/champ,
 800 lf 3/8x3 hwd wainscot,
 6 lf 5/4x18 hwd sill @ lobby niche (2ea x 3"),
 20 lf 12/a-10 5/4x4 trim @ hall B @ elevator,
 20 lf 12/a-10 3/4x4 trim @ hall B @ elevator,
 16 lf 5/a-13 3/4x4 elevator trim @ lobby,
 6 lf 5/a-13 3/4x10 elevator trim @ lobby,
 4 ea hardwood benches @ vestibule,
 1 ea reception desk,
 2 ea MDO shelving units @ 127 & 129,
 1 ea 5 adjustable shelves @ custodian 108,
 2 ea cabinets & counters @ lunchroom 126,
 2 ea 3 adj. shelves @ lunchroom 126,
 2 ea PL lavatory tops @ toilet rooms.

THERMAL & MOISTURE PROTECTION

Replace 3,000 sf 6" fg batt insulation w/kraft face @ ext walls,
 1,100 sf 3-1/2" fg batt insulation w/kraft face @ drum ext walls,
 4,100 sf 6 mil poly vb @ exterior walls,
 150 sf 3-1/2" fg batt insulation w/kraft face above ceiling room 103,
 5,500 sf 3-1/2" fg batt insulation w/kraft face @ int walls,
 3,000 sf air barrier @ exterior walls,
 3,000 sf prep existing damaged sealant, then seal concrete floors.
 Replace 2,688 lf misc. interior caulking @ sealant,

DOORS & WINDOWS

Replace 2 ea type d frames - double door,
 1 ea type d frames - single door,
 16 ea type e frames - double door,
 44 ea type e frames - single door,
 1 ea type r frames - double w/transom,

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6 ea type 3 door leafs,
2 ea type 3a door leafs,
25 ea type 4 door leafs,
6 ea type 5 door leafs,
2 ea type 6 door leafs,
15 ea type 7 door leafs,
18 ea type 8 door leafs,
4 ea type 8a door leafs,
6 ea type 9 door leafs,
4 ea type 10 door leafs,
5 ea type n interior borrow lite windows,
11 ea type 6 wd door leafs,
1 ea misc. access doors,
55 ea interior single openings door hardware (allowance),
19 ea interior double openings door hardware (allowance),
1 sf repair aluminum entrance M&I Allowance,
33 ea repair aluminum windows M&I Allowance,
100 sf repair/modify greenhouse windows M&I allowance,
1 ls misc. glass and glazing for 4- 2'x6' picture windows

FINISHES

Replace 840 sf skim coat plaster @ cylinder exterior walls,
560 lf 3 5/8 track @ exterior mechanical chase walls,
2,800 lf 3 5/8 stud and 1 LS miscellaneous framing allowance @ exterior mechanical chase walls,
1,014 sf metal stud partition, non-load bearing, galvanized, 8' high, 3-5/8" wide, 25 gauge, 16" O.C., includes top & bottom track, with 53 ea fire stopping,
3,000 sf 1/2" gypsum sheathing @ exterior wall,
50,400 sf 5/8" gwb @ walls,
46,500 sf tape and finish sheetrock,
40 sf waterproofing membrane, mortar bed & mesh @ shower 147B,
40 sf ceramic floor tile @ 147b,
70 sf ceramic wall tile @ 147b,
14 lf ceramic tile base @ 147b,
16,400 sf suspended acoustical ceilings (type 1 through 4),
7,800 sf of preparation and installation of sheet vinyl,
2,000 sf of preparation and installation of vinyl tile,
2,800 lf vinyl base,
200 sf of preparation and installation of rubber tile (landings),
320 lf rubber treads & risers and 1 LS adhesive/fasteners,
124 sy of floor prep and install of carpet,
47,340 sf painting gwb & plaster finishes,
55 ea painting single doors & frames,
19 ea painting double doors & frames,
4,200 lf painting standing and running trim,
840 sf painting wainscoting,
136 sf rfp panels @ custodian 108,
20 lf divider trim,
16 lf inside corner,
76 lf end cap,
1 day patch/repair Vermont slate flooring M&I allowance,

SPECIALTIES

Replace 1 ea toilet stall @ 147A,
74 ea interior signage,
3 ea fire extinguishers & cabinets,
3 ea 24" grab bar,

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3 ea 42" grab bar,
1 ea 18"x32" grab bar,
3 ea tp dispenser,
3 ea mirror 24"x34",
3 ea pt dispenser,
1 ea folding shower seat,
1 ea 46" shower curtain & rod,
4 ea robe/coat hooks.

EQUIPMENT

Replace 666 lf metal casework F&I,
666 lf epoxy countertop F&I,
8 ea fume hoods F&I (originally new),
2 ea fume hoods F&I (Originally by owner),
22 sf entry mat & frame @ vestibule 100 (4'x5'6"),
24 sf entry mat & frame @ vestibule 128 (4'6"x5'2"),
15 sf entry mat & frame @ vestibule 100 (4'x3'8")

CONVEYING

Repair or Replace 1 elevator:

The Ag/ Env Lab elevator had several components damaged due to contamination: instead of replacing the cab plywood floor, cab OSB walls, and cab doors that were damaged, replace the entire cab.

This is more economical than replacing the component parts (based on discussion with Kevin Henderson of BGS).

Replace emergency pit limit switches, emergency telephone and emergency light/alarms battery pack which were all damaged due to the flooding. (See Bay State quote, attached).

MECHANICAL

Replace 1 mechanical (heat pump installation),
30 ea Climatemaster TRC water source heat pump 1.5 t (old units = CL019GR0SHSSMSE, SN C1161468, 208/230v, 60 hz, 1 ph, 9.4 a, 5 kw cool, 6 kw heat, 1/6 HP),
1 ea remove York 14tn chiller unit m/n YCAL0014SC 17XAASDTXLTxRLxxxx44, s/n RFHM1770AA,
1 ea replace 14tn York chiller YCAL0014SC air cooled chiller,
14 ton Pipe, sub assemblies used in assembly systems, refrigerant piping, per ton, with remote condensing unit, 20 ton (install York),
2 ea replace McQuay 140tn chiller 24v - 18v METS 50327 transformers,
1 ea replace McQuay 140tn chiller 860-654873B06 s/n 37358 control board,
1 ea replace McQuay 140tn chiller control 658160B01 s/n 21109 logic control,
1 day replace McQuay 140tn chiller control components,
4 ea replace McQuay 140tn chiller Copeland compressors 6DR3A4000TSN230 & 6DJ3A4000TSN230,
1 day replace McQuay 140tn chiller Copeland compressor labor,
1 ea replace McQuay 140tn chiller Gordos PB16 relay,
1 ea replace McQuay 140tn chiller Automated Logic 2540 control module,
4 ea replace McQuay 140tn chiller 100amp breaker/relays Type A,
4 ea replace McQuay 140tn chiller Johnson Control oil pressure switches P12CA1,
4 ea replace McQuay 140tn chiller GE contactors CR353EGBA100,
4 ea replace protector/overload modules in McQuay 140tn chiller control panel,
4 hr service McQuay 140tn chiller GE 400amp safety switch junction blocks for underground wire feed,
2 ea replace McQuay 140tn chiller compressor solenoid coils,
42 lf insulation, pipe covering (price copper tube one size less than I.P.S.), fiberglass with all service jacket, 3" wall, 6" iron pipe size (McQuay chiller),
8 ea replace McQuay 140tn chiller 12" insulated pipe 90 degree elbows,
1 day hand excavate & later backfill existing McQuay chiller piping at radius wall (20' back from wall @ ea of 4 pipes),
2 lf remove Baltimore Air Coil (BAC) cooling tower 12" pipe insulation,
4 lf replace Baltimore Air Coil (BAC) cooling tower 12" pipe insulation,
1 ea replace Baltimore Air Coil (BAC) cooling tower Bleimo LF120 US auto-drain timer,

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1 ea repair Baltimore Air Coil (BAC) cooling tower float switch 310620,
1 ea replace Baltimore Air Coil (BAC) cooling tower TACO 1/25hp, 115V, 125PSI, .76A, 60hz cartridge circulator pump/motor Bleimo LF 120 US auto-drain timer,
8 Baltimore Air Coil (BAC) cooling tower submerged junction boxes other electrical connections,
1 ea replace Baltimore Air Coil (BAC) cooling tower Crouse Hinds heater sump 206V, 12kw, 3phased, m/n 310570,
1 day service Baltimore Air Coil (BAC) cooling tower cable terminations in lower electrical control panel
Replace 1 Iwaki EZB15D1VC, 1gph metering pump (hazardous material room beside elevated air handler),
1 ea replace LMI m/n A15191SL, 1gph metering pump/motor (utility room),
40 lf replace 6" fiberglass/jacketed pipe insulation (14in chiller),
15 ea replace 6" plastic 90 degree pipe insulation elbows,
42 lf replace 12" fiberglass/jacketed pipe insulation (140in chiller),
6 ea replace 12" plastic 90 degree pipe elbow (140in chiller),
1 ea replace 12" plastic 22 degree pipe elbow (140in chiller).

Install/connect 1- fume hood
Repair and/or replace 10 ea Laboratory equipment, fume hood, with countertop & base, complex, incl. fixtures, exd. HVAC, 10 day connect/test fume hoods,
10 ea laboratory equipment, fume hood, service fixtures, average (mtrls).
Replace 3 ea exterior wall hose bibs,
57 ea water, gas, drain line hookups for metal casework,
26 ea water supply line hookups for metal casework,
1 ea Iwaki EZB15D1VC, 1gph, metering pump (utility room).
Reconnect ceiling ductwork in 63 rooms after act grid replacement,
42 lf 3" wall chill water pipe insulation (for 6" McQuay unit piping),
21 lf insulation, pipe covering (price copper tube one size less than I.P.S.), for fittings, add 3 linear feet for each fitting plus 4 linear feet for each flange of the fitting (McQuay chiller)
Undo & Flush 56 Floor Drains and 1 LS mechanical flush waste piping,
Replace 200 lf demo 1" pvc argon gas piping (S & W walls),
200 lf replace 1" pvc argon gas piping (S & W walls),
240 lf demo 1" pvc argon gas piping (E wall),
240 lf replace 1" pvc argon gas piping (E wall),
3 ea demo 2" steel pipe (SE wall),
15 lf replace 2" steel pipe (SE wall),
12 lf 2" steel pipe (SE wall @ louvered vent) reinstall after masonry repair,
80 lf Pipe, metal pipe, 4" to 6" diam., selective demolition (at ext radius wall - McQuay 140in chiller - for masonry wall repair),
1 system Pipe, sub assemblies used in assembly systems, refrigerant piping, per ton, with remote condensing unit, 100 ton (reinstall removed McQuay piping @ radius wall for masonry repair),
2 sf replace 6" x 30" metal louvered wall vent (N & E walls),
24 sf replace 4' x 6' metal louvered wall vent (E corner)

ELECTRICAL

Replace 8 ea GE 100amp, 240, 480, 600V, 3phase breakers in main 1600amp service panel,
7 lf replace 3' x 7' electrical panel metal cover (main panel),
1 lf replace 3' x 1' electrical panel metal cover (main panel),
2 lf replace 3' x 2' electrical panel metal cover (main panel),
1 lf replace 3' x 3' electrical panel metal cover (main panel),
2 ea remove/replace Snider Electric LC1D65A cooling tower panel contactors in Yaskawa P7B Drive panel (inside bldg),
4 hr service Cutler Hammer 200amp, 250V safety switch (@ 140in chiller),
1 ea Cutler Hammer 100amp 600V safety switch (@ 14in chiller)

Replace 23 ea Fluorescent fixture, interior, troffer parabolic lay-in, 2-U32 W T8, 2' W x 2' L, incl lamps, mounting hardware and connections,
16,605 sf Decontamination of asbestos containment area, final cleaning of protected surfaces

Replace 130 wall receptacles with wiring back to nearest junction,
2 ea remove/replace Magnatech 3/4hp circulating pump motors PN 1015135103 (to elevated air handler - SE corner interior) - Motors, drip proof, premium efficiency, 1.15 service factor, 1800 RPM, 230/460 V, 60 Hz, 3/4 HP,
1 ea, 220V relay for condensate pump motors (utility room),

Replace 130 Receptacle & switches, 15 to 30 amp, electrical demolition, remove,

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65 cf Wire, THW-THWN-THHN, #12, electrical demolition, removed from in place conduit, to 15' high
Replace 1 285KW CAT diesel generator,
1 electrical (remove & re-install @ exterior wall)
Remove 1 ea 20a GFI receptacle - exterior wall (at greenhouse),
Replace: 1 ea Duplex receptacle, ground fault interrupting, 20 amp,
240 lf remove 1" metal conduit for 20a GFI receptacle - exterior wall (at greenhouse SE, W walls),
1 ea Cutler Hammer 200amp, 250V safety switch (cooling tower)
240 lf re-install rigid galvanized steel conduit, 1" diameter, to 15' H, and 2 terminations, 2 elbows, 11 beam clamps, and 11 couplings per 100 LF (at greenhouse, SE, W walls),
2 day remove, later reinstall GE 1,200amp safety switch from exterior wall in order to remove block and brick veneer for exterior drywall repairs,
Replace 10 ea telephone wiring terminal blocks (utility room),
1 ea Card reader, basic, interior and exterior, key access, excludes striker/power/wiring (S entrance door)

A repair/replacement analysis was performed to determine if the building is eligible for replacement per the Repair vs. Replacement of a Facility under 44 CFR §206.226(f) (The 50% Rule, FEMA Policy 9524.4). The analysis revealed that the building is not eligible for replacement, with a ratio of validated damages/RS Means replacement model of (21.07%) per FEMA Policy 9524.4 guidelines) (Refer to attached detailed and expanded analysis within CEF spreadsheet).

NOTE: See attached WSOC Critical Action Document.

GENERAL NOTES:

BACKUP DOCUMENTATION:

Complete Documentation has not been compiled as of this date and needs to be on file at the Applicant's office. For auditing purposes, the Applicant must maintain records for a period of 3 years from the date of receipt of final payment.

HAZARD MITIGATION

If Section 406 mitigation is to be done at this location, an amendment to this subgrant application will be created at that time.

CHANGE IN SCOPE OF WORK

In the case of a change in the scope of work and/or a cost overrun, the Applicant must immediately notify the State PA Officer, Ben Rose (ben.rose@state.vt.us) at 802-585-4719.

PERMITS:

Federal funding is contingent upon the Applicant acquiring all Federal, State, and Local Permits. Noncompliance with this requirement may jeopardize the receipt of Federal Funding.

BIDDING:

The Applicant is cautioned when procuring services to follow the bidding requirements of 44 CFR Section 13.36.

DIRECT ADMINISTRATIVE COSTS:

Sub-Grantee is requesting Direct Administrative Costs (DAC) that is directly chargeable to this specific project. Associated eligible work is related to the administration of this PA project only and in accordance with 44 CFR Sec. 13.22. These costs are treated consistently and uniformly as direct costs in all Federal awards and other Sub-Grantee activities and are not included in any approved indirect cost rates.

Sub-Grantee DAC for this project has been estimated based on the following references:

- (a) FEMA Disaster Assistance Policy DAP 9525.9 "Section 324 Management Costs and Direct Administrative Costs" dated March 12, 2008;
- (b) Reasonable Costs Memo from Elizabeth A. Zimmerman dated September 8, 2009;
- (c) Public Assistance Program Indirect and Direct Administrative Activity List; and
- (d) State of Vermont's Force Account Benefits (Fringe) Certification Form.

The following methodology was used to estimate the dollar value of Sub-Grantee DAC for each of three project categories:

- (1) A template was prepared listing all approved Sub-Grantee administrative activities cited in the references;
- (2) Columns were added to estimate the level of effort required to perform each listed activity by project category (Low PA Program Complexity, Medium PA Program Complexity and High PA Program Complexity) based on the following guidance:

* Low PA Program Complexity Project - Large Project, Emergency or Permanent Work, Single Site or Facility, Repair Only, No Special Considerations, Limited Number of Contracts, Limited Potential for Controversy, Total Project Cost Typically <\$1M

** Medium PA Program Complexity Project - Large Project, Emergency or Permanent Work, Single Site or Facility, Repair or Replacement, Alternate or Improved, Manageable Special Consideration (Historic, 406 Mitigation, Substantial Damage), Manageable Number of Contracts, Manageable Potential for Controversy, Total Project Cost Typically \$1M-\$5M

*** High PA Program Complexity Project - Large Project, Emergency or Permanent Work, Multiple Sites or Facilities, Repair or Replacement, Alternate or Improved, Complex Special Considerations (Historic, 40% Mitigation, Substantial Damage), Large Number of Contracts, Significant Potential for Controversy, Total Project Cost: Typically >\$5M

(3) The total number of hours to perform all listed activities for each category was then multiplied by the hourly rate of \$65 (rate includes fringe and blended for all positions and all levels);

(4) For the following reason, the Project Specialist has determined in coordination with the State that this project meets the guidelines for a Medium PA Program Complexity Project: This is a Large Project for Permanent Work and repair, it is a Single Facility with manageable Special Considerations & Number of Contracts, there is a Potential for Controversy, and the Total Project Cost >\$1M.

(5) Accordingly, based on the foregoing methodology, the estimated Sub-Grantee DAC to be included on the Project Worksheet for this project is \$16,610.

At Project Close-Out, Sub-Grantees must provide documentation to establish that all DAC administrative tasks for which reimbursement is sought can be separately identified and assigned to this specific project in compliance with the initial references.

Direct costs are limited to actual reasonable costs incurred for a specific project and are cost-shared at the prevailing cost-share rate for the declaration, if the actual DAC determined eligible at project closeout is lower or higher than initially estimated, the Project Worksheet will be amended accordingly.

SEE THE SPECIAL CONSIDERATION COMMENT SECTION FOR THE FLOODPLAIN COMMENTS AND THE FIRMETTE FOR THE DAMAGE LOCATION RELATIVE TO THE FLOODPLAIN.

A review of the Vermont Fire and Building Safety Code of 2006, in preliminary consultation with the state inspector, was performed for the damaged facilities. Due to the level of repairs required to be performed at this facility as a result of the flooding event, all items in existence at the time of the incident storm could be repaired and/or replaced in kind without creating a violation of the said code.

Also, review of the Village of Waterbury's Zoning Regulations reveals that analysis of the costs of repairs in relationship to the "Market Value" cannot be performed at this time (please refer to attached Vermont Fire and Building Safety Code listing).
PA-01-VT-4023-PVA-03257(1);

*** PVA 03257 Amendment 1 ***

The original PW included scope and costs, provided by the Subgrantee (Vermont Department of Building and General Services (BGS)), that were associated with the repair to pre-disaster condition of the subject building. This Amendment addresses the Subgrantee's concerns about items that may not have been identified by the Subgrantee's insurance company plus Floodplain Management requirements.

***Background

BGS provided FEMA with information produced by DBI Construction Consultants LLC (DBI), on behalf of the State's insurance company. The mechanical/electrical/plumbing components (MEP) in the DBI report were provided by the BGS engineer. This combination was then validated by Upland Construction (Upland) and BGS, and was the basis for the version 0 PW. Subsequent to that effort, BGS initiated an effort to demonstrate that this scope (DBI including BGS MEP + Upland) was deficient. FEMA, in conjunction with BGS, developed a guidance document (Attachment A) and in early January, FEMA and Subgrantee representatives re-inspected the building.

***Items Considered

Requested items, validated in the field were added to the repair estimate (see CEF Part A). Items considered can be grouped into three categories:

** 1. Repairs: The inspection in January identified and added one item to the scope of work, provide an allowance for: reinstallation of drop ceiling mounted devices (Hearing grids, smoke detectors, intercom speakers, sprinkler heads on box piping, etc). Total addition to CEF Part A for Repairs is \$41,346.45. This results in a CEF total cost for all repairs of \$2,507,933.00 (completed + uncompleted after CEF factors applied).

The Subgrantee also requested additional funds to remove the residue staining the concrete subfloor from the old "outback" (ie adhesive). Based on the Resident Floor Covering Institute's "Recommended Work Practices for Removal of Resident Floor Coverings" (Attachment B, Table on pg 23 and text on pg 24), VCT or sheet flooring, either vinyl or felt backed, can be installed over minor amounts of "outback" adhesive, without further work, as long as no ridges or puddles are evident and what remains is a smooth flat". As a result, no additional work is eligible.

** 2. Floodplain Management Local Codes and Standards

"Substantial Damage" has been determined for this building by the Zoning Administrator (ZA) of the Village of Waterbury. In the letter referenced "FEMA NFIP Substantial Damage Determination", (Attachment D), such determination was based on the information outlined in the Subgrantee's letter to the ZA, dated November 7, 2012, in which the Subgrantee requested "... a flood hazard review by Waterbury Zoning and Planning for buildings in the Waterbury State Office Complex...". (Attachment E)

The Subgrantee submitted information in support of its request, including the fact that "BGS completed a professional evaluation of this building's market value..." and stated: "On

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review of this data, it is our belief that the above-referenced building may qualify as substantially damaged. This letter serves to bring this issue to your attention and request review to determine whether the damages are "substantial" as defined by the Town & Village of Waterbury Zoning Regulations, requiring compliance with relevant conditions and development standards for special flood hazard areas." The letter further supplies the following:

- 1). DBI Damage/Work to be Completed, along with the associated cost-estimate;
- 2). Work Already Completed, along with the actual costs to-date;
- 3). Total Damage Assessment, equaling the total costs of #1 and #2 above; and
- 4). Market Value, with the dollar amount of this new study/market value.

Upon this Substantial Damage determination, FEMA studied (3) flood proofing options which could bring this building into compliance with the Interim Zoning Regulations of May, 2012, which requires flood proofing measures to protect the building to a level equal to (2) feet above the Base Flood Elevation, being the (100) year Flood Plain elevation plus (2) feet, known as (BFE+2):

- 1). Dry proof building by filling block cores, mortar joints with waterproof mortar, and install flood shield doors;
- 2). Elevate the Building to the BFE+2; and
- 3). Abandoning the Ground or Basement Levels and adding a new Upper Level.

After an analysis of these options FEMA determined that Option 1 (using either exterior wall dry proofing or constructing a perimeter flood wall up against the exterior wall, - depending on the height of protection required) was the most cost effective to achieve code compliance.

Option 1 solution includes all necessary additional material to dry proof the building exterior wall. The labor & materials represents only a small incremental cost increase over simple the simple wall repair included as part of the building repair.

Amendment 1 includes the cost for Option 1 to include dry floodproofing the building by dry proofing exterior wall (Attachment G). The height of the wall is 3.33 FT (BFE+2 = 3.33 AFF) above the finished floor. (Attachment F)

The CEF (Attachment G) includes CEF Part "A" Cost of \$18,998.10 for Floodplain Management code compliance. This corresponds to a Full CEF cost for Codes & Sids of \$26,452.00

** 3. Codes & Standards other than Floodplain Management

The Subgrantee requested a number of improvements as Codes and Standards requirements. FEMA has determined that those codes and standards do not meet the requirements of 44 C.F.R. § 206.226(d) and FEMA Disaster Assistance Policy No. 9527.4 (Attachment H). As a result none proposed have been added.

***General Comments

Cost -The attached associated cost estimate is provided in the FEMA Cost Estimating Format (CEF). This is the standard format used by FEMA for estimating large projects and utilizes industry-standards approaches and costs. The work elements in the CEF Part A include the entire eligible scope of work completed work cost and develop the entire eligible uncompleted cost.

ATTACHMENTS

- A. Attachment A: FEMA/BGS Inspection Guidance Document dated 1/7/13.
- B. Attachment B: "Recommended Work Practices for Removal of Resilient Floor Coverings" from the Resilient Floor Covering Institute. (<http://www.rfci.com/images/pdf/recommended-work-practices.pdf>)
- C. Attachment C: Waterbury's Interim Zoning Regulations.
- D. Attachment D: Substantial Damage Letter
- E. Attachment E: Subgrantee's Request for FPM review
- F. Attachment F: Preliminary DFIRM
- G. Attachment G: CEF for Amendment 1
- H. Attachment H: "Codes Standards Analysis FINAL 01 14 2013 Non Historic" when with FPM;

Hazard Mitigation Proposal (HMP):

The additional scope of work is intended to address the FEMA PA funding associated with the HMP for this facility. The Ag Lab was determined to be Substantially Damaged by the Waterbury Municipal Office Planning Department dated January 7, 2013.

Mitigation: The Applicant has requested funding for Hazard Mitigation for this building beyond measures required by Flood Plain Management. The Applicant proposes dry floodproofing, to an elevation of 431.5 (BFE 426.8, 500 yr. elevation = 430.5) by constructing 690 linear foot of reinforced concrete flood wall with brick veneer contiguous to the exterior of the existing building. These walls will be supported by a 2 ft. thick x 8 ft. wide "L" shaped foundation supporting walls that extend 14.5 ft. above the bottom of this foundation. Two (2) 5' x 12.5' and one (1) 10' x 12.5' Flood Doors will be installed in the wall for access. The brick veneer on the visible exterior portion of the flood wall will be consistent with the building's construction. Costs for the proposed HMP were determined using RS Means Costworks 2013 V15.17 and applying appropriate CEF cost factors to

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account for design, construction, and project management. The scope of flood plain management compliance requirement measures will be subsumed on to the 406 Hazard Mitigation and the cost (\$26,452) will be avoided by the proposed HMP. The flood plain management compliance requirement measures are document in the CEF dated January 14, 2013, which includes dry floodproofing the walls by filling the block cores and mortar joints with waterproof mortar and installing flood-shield doors under the Ceres & Sids (FPM) section. A sketch of the HMP contiguous flood wall and the cost estimate are included in the HMP CEF.

Eligibility: Dry Floodproofing mitigation is covered in Appendix A of FEMA 9825.1 - Hazard Mitigation Funding Under Section 406 (The 100% rule). Estimated cost for the HMP is \$1,785,678, which is equal to the total HMP CEF cost minus the work avoided (\$1,812,130 - \$26,452). The Ag Lab building suffered damages totaling \$2,535,390 (including flood plain management compliance). This results in mitigation costs of 68.78% of the "flood" damages, and meets the requirements of Appendix A of FEMA 9825.1, which states "The following potential mitigation measures (reference paragraph VII.B.2) are determined to be cost-effective if they: do not exceed 100% of project cost, are appropriate to the disaster damage, will prevent future similar damage, are directly related to the eligible damaged elements, do not increase risks or cause adverse effects to the property or elsewhere, are technically feasible for the hazard and location, and otherwise meet requirements stipulated in this policy, including environmental, historic, and mitigation planning considerations."

The Applicant has informed that they intend to demolish the Agricultural and Environmental Laboratory (AG Lab). Once the Applicant determines what they are going to do with the function of the Ag Lab, they can submit for a funding option under Standard Procedures or elect to use alternative procedures under the Sandy Recovery Improvement Act (SRIA). Note - Agreement to a SRIA Fixed Estimate must be received within 9 months from May 20, 2013 and a Consolidated Project request within 12 months from May 20, 2013.

PA-01-VI-4022-PW-03227(2)

Current Version:

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

ITEM	CODE	NARRATIVE	QUANTITY/UNIT	UNIT PRICE	COST
1	0000	WORK TO BE COMPLETED	0/LS	\$ 0.00	\$ 0.00
2	9000	CEF COST ESTIMATE	1/LS	\$ 2,415,545.00	\$ 2,415,545.00
3	9901	DIRECT ADMINISTRATIVE COSTS (SUBGRANTEE)	1/LS	\$ 16,610.00	\$ 16,610.00
4	0000	AMENDMENT NO 1	0/LS	\$ 0.00	\$ 0.00
5	9999	DEDUCT VERSION (0) COSTS	-1/LS	\$ 2,432,155.00	\$ -2,432,155.00
6	0000	AMENDMENT NO 1 WORK TO BE COMPLETED	0/LS	\$ 0.00	\$ 0.00
7	9999	Total Proj Cost after Amendment 1	1/LS	\$ 2,507,933.00	\$ 2,507,933.00
8	9999	Total PW DAC after amendment 1	1/LS	\$ 16,610.00	\$ 16,610.00
9	0000	MITIGATION	1/LS	\$ 1,785,678.00	\$ 1,785,678.00
10	0000	Insurance Adjustments - 5500/5501	0/LS	\$ 0.00	\$ 0.00
11	3901	INSURANCE PROCEEDS (ANTICIPATED)	1/LS	\$ -2,415,545.00	\$ -2,415,545.00
12	0000	AMENDMENT NO 1	0/LS	\$ 0.00	\$ 0.00

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13	9999	DEDUCT INSURANCE PROCEEDS (ANTICIPATED)	1/LS	\$ 2,415,545.00	\$ 2,415,545.00
14	5901	INSURANCE PROCEEDS (ANTICIPATED)	1/LS	\$ -2,507,933.00	\$ -2,507,933.00
				TOTAL COST	\$ 1,802,288.00
PREPARED BY Galen Costigan			TITLE PROJECT SPECIALIST	SIGNATURE	
APPLICANT REP. Wanda Minoli			TITLE Deputy Commissioner BGS	SIGNATURE	

VT DEPARTMENT OF BUILDINGS & GENERAL SERVICES : PA-01-VT-4022-PW-03237					
Conditions Information					
Review Name	Condition Type	Condition Name	Description	Monitored	Status
Final Review	Other (EHP)	Standard Condition #1	Any change to the approved scope of work will require re-evaluation for compliance with NEPA and other Laws and Executive Orders.	No	Approved
Final Review	Other (EHP)	Standard Condition #3	If ground disturbing activities occur during construction, applicant will monitor ground disturbance and if any potential archeological resources are discovered, will immediately cease construction in that area and notify the State and FEMA.	No	Approved
Final Review	Other (EHP)	Standard Condition #2	This review does not address all federal, state and local requirements. Acceptance of federal funding requires recipient to comply with all federal, state and local laws. Failure to obtain all appropriate federal, state and local environmental permits and clearances may jeopardize federal funding.	No	Approved
Final Review	Other (EHP)	Standard Condition #1	Any change to the approved scope of work will require re-evaluation for compliance with NEPA and other Laws and Executive Orders.	No	Approved
Final Review	Other (EHP)	Standard Condition #1	Any change to the approved scope of work will require re-evaluation for compliance with NEPA and other Laws and Executive Orders.	No	Approved
Final Review	Other (EHP)	Standard Condition #2	This review does not address all federal, state and local requirements. Acceptance of federal funding requires recipient to comply with all federal, state and local laws. Failure to obtain all appropriate federal, state and local environmental permits and clearances may jeopardize federal funding.	No	Approved
			If ground disturbing activities occur during construction, applicant		

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Final Review	Other (EHP)	Standard Condition #3	will monitor ground disturbance and if any potential archeological resources are discovered, will immediately cease construction in that area and notify the State and FEMA.	No	Approved
Final Review	Other (EHP)	Standard Condition #2	This review does not address all federal, state and local requirements. Acceptance of federal funding requires recipient to comply with all federal, state and local laws. Failure to obtain all appropriate federal, state and local environmental permits and clearances may jeopardize federal funding.	No	Approved
Final Review	Other (EHP)	Standard Condition #3	If ground disturbing activities occur during construction, applicant will monitor ground disturbance and if any potential archeological resources are discovered, will immediately cease construction in that area and notify the State and FEMA.	No	Approved
EHP Review	Other (EHP)	Standard Condition #3	If ground disturbing activities occur during construction, applicant will monitor ground disturbance and if any potential archeological resources are discovered, will immediately cease construction in that area and notify the State and FEMA.	No	Recommended
EHP Review	Other (EHP)	Standard Condition #2	This review does not address all federal, state and local requirements. Acceptance of federal funding requires recipient to comply with all federal, state and local laws. Failure to obtain all appropriate federal, state and local environmental permits and clearances may jeopardize federal funding.	No	Recommended
EHP Review	Other (EHP)	Standard Condition #1	Any change to the approved scope of work will require re-evaluation for compliance with NEPA and other Laws and Executive Orders.	No	Recommended
Insurance Review	Conditions (Grant Specific)	Obtain & Maintain	VT DEPARTMENT OF BUILDINGS & GENERAL SERVICES – PW-03237 10/22/2013 (11/16/2012) – This Sub-Grant Application-PW-03237 addresses flood damage from Tropical Storm Irene to Ag/Env Lab Building #06304 at the Waterbury State Office Complex (WSOC). The Applicant has insurance with Lexington Insurance Company (Policy # 021565511) with a blanket policy limit of \$300 million and a \$250,000 per occurrence deductible. A search of NEMIS and EMMIE prior disasters revealed there is no prior insurance commitment on this facility. The policy affords coverage for the work listed. The total amount of the PW is \$4,310,221 minus \$16,610 DAC equals \$4,293,611 minus \$2,507,933 anticipated flood insurance reduction (5901) equals \$1,785,678 eligible mitigation excluding DAC. The deductible was funded on PW 03072. There is an "Obtain & Maintain" Flood Insurance Commitment on this facility for \$1,785,678 (44 CFR 206.252). Don Sanderson, Insurance Specialist VT DEPARTMENT OF BUILDINGS & GENERAL SERVICES – PW-03237 11/16/2012 – This Sub-Grant Application-PW-03237 addresses flood damage from Tropical	Yes	Recommended

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		Storm Irene to Ag/Env Lab Building #06394 at the Waterbury State Office Complex (WSOC). The Applicant has insurance with Lexington Insurance Company (Policy # 021565511) with a blanket policy limit of \$300 million and a \$250,000 per occurrence deductible. A search of NEMIS and EMMIE prior disasters revealed there is no prior insurance commitment on this facility. The policy affords coverage for the work listed. The total amount of the PW is \$2,432,155 minus \$16,610 DAC equals \$2,415,545 minus \$2,415,545 anticipated flood insurance reduction (5901) equals \$0.00 eligible excluding DAC. The deductible was funded on PW 03072. There is no "Obtain & Maintain" Insurance Commitment on this facility (44 CFR 206.252). Don Sanderson, Insurance	
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Internal Comments				
No.	Queue	User	Date/Time	Reviewer Comments
43	Award Review	SYSTEM	10-25-2013 05:51 PM GMT	ACCEPTED
42	Award Review	MINNS BRIAN	10-25-2013 04:57 PM GMT	deobligation due to insurance adjustment on this PW Brian Minns 10/25/13
41	<u>Final Review</u>	BRIDGES STERLING	10-22-2013 06:36 PM GMT	10/22/13: Amendment for insurance adjustment.
				<p>Scope of Work: Building repairs, WSOC Ag/Env Lab Building, Vt Department of Buildings and General Services, Washington County (44.33049 -72.75199). Interior and exterior in-kind repair/replacement, caused by flooding, include: ceramic tiles, rubber tiles, vinyl tiles, wood and carpeted floors; ceramic, plaster, wood and masonry walls; tile ceiling; wood and aluminum doors; wood and aluminum windows; electrical equipment, mechanical equipment; HVAC components; wood and metal cabinetry; bathroom fixtures and the elevator. The building was constructed in 1990.</p> <p>A Finding of No Significant Impact (FONSI) was determined on September 28, 2012 for the Waterbury State Office Complex (WSOC) Project, Washington County, Vermont. The Ag/Env Lab Building is part of the WSOC and is therefore covered under this FONSI. (See attached FONSI).</p> <p>- sazik/1 - 11/19/2012 19:06:33 GMT</p> <p>***** THIS PW IS AMENDED TO INCLUDE MITIGATION, AS FOLLOWS:</p> <p>The additional scope of work is intended to address the FEMA PA funding associated with the HMP for this facility. The Ag</p>

Mitigation: The Applicant has requested funding for Hazard Mitigation for this building beyond measures required by Flood Plain Management. The Applicant proposes dry floodproofing to an elevation of 431.5 (SFPE 426.8, 500 yr. elevation = 430.5) by constructing 660 linear feet of reinforced concrete flood wall with brick veneer contiguous to the exterior of the existing building. These walls will be supported by a 2 ft. thick x 8 ft. wide "L" shaped foundation supporting walls that extend 14.5 ft. above the bottom of this foundation. Two (2) 5' x 12.5' and one (1) 10' x 12.5' Flood Doors will be installed in the wall for access. The brick veneer on the visible exterior portion of the flood wall will be consistent with the building's construction. Costs for the proposed HMP were determined using RS Means Contractors 2013 V15.17 and applying appropriate CEF cost factors to account for design, construction, and project management. The scope of flood plain management compliance requirement measures will be subtracted on to the 465 Hazard Mitigation and the cost (\$26,452) will be avoided by the proposed HMP. The flood plain management compliance requirement measures are document in the CEF dated January 14, 2013, which includes dry floodproofing the walls by filling the block cores and molar joints with waterproof mortar and installing flood-shield doors under the Codes & Sids (FPM) section. A sketch of the HMP contiguous flood wall and the cost estimate are included in the HMP CEF.

Eligibility: Dry floodproofing mitigation is covered in Appendix A of FEMA 552B.1 - Hazard Mitigation Funding Under Section 406 (The 100% rule). Estimated cost for the HMP is \$1,785,675, which is equal to the total HMP CEF cost minus the work avoided (\$1,812,130 - \$26,452). The Ag Lab building sustained damages totaling \$2,596,380 (including flood plain management compliance). This results in mitigation costs of 68.78% of the "trend" damages, and meets the requirements of Appendix A of FEMA 552B.1, which states "The following potential mitigation measures (reference paragraph VII.B.2) are determined to be cost-effective if they: do not exceed 100% of project cost, are appropriate to the disaster damage, will prevent future similar damage, are directly related to the eligible damaged elements, do not increase risks or cause adverse effects to the property or elsewhere, are technically feasible for the hazard and location, and otherwise meet requirements

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<https://sourcefire.com/enr/view-application.do?view=detail&appId=basicAccess&workspaceId=8&internalObjectId=9§ion=9&pageName=8005mT6o=&pageType=dev&sessionId=>

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38	Insurance Review	SANDERSON DONALD	10-22-2013 01:45 PM GMT	11/16/2012 -- This Sub-Grant Application-PW-03237 addresses flood damage from Tropical Storm Irene to Ag/Env Lab Building #06394 at the Waterbury State Office Complex (WSOC). The Applicant has insurance with Lexington Insurance Company (Policy # 021566511) with a blanket policy limit of \$300 million and a \$250,000 per occurrence deductible. A search of NEMIS and EMMIE prior disasters revealed there is no prior insurance commitment on this facility. The policy affords coverage for the work listed. The total amount of the PW is \$2,432,155 minus \$16,610 DAC equals \$2,415,545 minus \$2,415,545 anticipated flood insurance reduction (5901) equals \$0.00 eligible excluding DAC. The deductible was funded on PW 03072. There is no "Obtain & Maintain" Insurance Commitment on this facility (44 CFR 206.252). Don Sanderson, Insurance
37	Initial Review	BRIDGES STERLING	10-22-2013 01:23 PM GMT	10/22/13: sending to insurance review queue.
36	Initial Review	REICH DAWN	10-21-2013 05:46 PM GMT	This PW has been reviewed and appears to be complete and eligible. Bil Chase 11-16-2012 2/12/2013: The Village of Waterbury has jurisdiction for zoning and permitting, including NFIP floodplain management compliance. FEMA Public Assistance has determined that the Waterbury Interim Zoning Ordinance appears to meet the requirements of the five criteria and is therefore considered an applicable code and standard in accordance with 44 CFR 206.226(d).
35	Initial Review	REICH DAWN	10-21-2013 05:42 PM GMT	This PW has been reviewed and appears to be complete and eligible. Bil Chase 11-16-2012 2/12/2013: The Village of Waterbury has jurisdiction for zoning and permitting, including NFIP floodplain management compliance. FEMA Public Assistance has determined that the Waterbury Interim Zoning Ordinance appears to meet the requirements of the five criteria and is therefore considered an applicable code and standard in accordance with 44 CFR 206.226(d).
34	Amendment Review	REICH DAWN	10-21-2013 05:33 PM GMT	To reflect anticipated insurance reduction.
33	Award Review	SYSTEM	09-20-2013 10:54 PM GMT	ACCEPTED
32	OLA Review	JOHNSON STEPHANIE	09-18-2013 11:35 AM GMT	DHS embargo until 9/18/13.

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31	Final Review	BRIDGES STERLING	06-29-2013 01:07 PM GMT	Project appears eligible and ready for approval. To LPN.
				<p>Scope of Work: Building repairs, WSOC Ag/Env Lab Building, Vt Department of Buildings and General Services, Washington County (44.33049 -72.75199). Interior and exterior in-kind repair/replacement, caused by flooding, include: ceramic tiles, rubber tiles, vinyl tiles, wood and carpeted floors; ceramic, plaster, wood and masonry walls; tile ceiling; wood and aluminum doors; wood and aluminum windows; electrical equipment; mechanical equipment; HVAC components; wood and metal cabinetry; bathroom fixtures and the elevator. The building was constructed in 1990.</p> <p>A Finding of No Significant Impact (FONSI) was determined on September 28, 2012 for the Waterbury State Office Complex (WSOC) Project, Washington County, Vermont. The Ag/Env Lab Building is part of the WSOC and is therefore covered under this FONSI. (See attached FONSI).</p> <p>- sazizi1 - 11/19/2012 19:06:33 GMT</p> <p>***** THIS PW IS AMENDED TO INCLUDE MITIGATION, AS FOLLOWS:</p> <p>The additional scope of work is intended to address the FEMA P/A funding associated with the HMP for this facility. The Ag Lab was determined to be Substantially Damaged by the Waterbury Municipal Office Planning Department dated January 7, 2013.</p> <p>Mitigation: The Applicant has requested funding for Hazard Mitigation for this building beyond measures required by Flood Plain Management. The Applicant proposes dry floodproofing, to an elevation of 431.5 (BFE 426.8, 500 yr. elevation = 430.5) by constructing 590 linear foot of reinforced concrete flood wall with brick veneer contiguous to the exterior of the existing building. These walls will be supported by a 2 ft. thick x 8 ft. wide "L" shaped foundation supporting walls that extend 14.5 ft. above the bottom of this foundation. Two (2) 5' x 12.5' and one (1) 10' x 12.5' Flood Doors will be installed in the wall for access. The brick veneer on the visible exterior portion of the flood wall will be consistent with the building's construction. Costs for the proposed HMP were determined using RS Means Costworks 2013 V15.17 and applying appropriate CEF cost factors to account for design, construction, and project management. The scope of flood plain management compliance requirement measures will be subsumed on to the 406 Hazard Mitigation and the cost (\$26,452) will be avoided by the proposed HMP. The flood plain management compliance</p>
30	EHP Review	THOMAS PETER	08-21-2013 07:09 PM GMT	

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				<p>requirement measures are document in the CEF dated January 14, 2013, which includes dry floodproofing the walls by filling the block cores and mortar joints with waterproof mortar and installing flood-shield doors under the Codes & Stds (FPM) section. A sketch of the HMP contiguous flood wall and the cost estimate are included in the HMP CEF.</p> <p>Eligibility: Dry Floodproofing mitigation is covered in Appendix A of FEMA 9526.1 - Hazard Mitigation Funding Under Section 406 (The 100% rule). Estimated cost for the HMP is \$1,785,678, which is equal to the total HMP CEF cost minus the work avoided (\$1,812,130 - \$26,452). The Ag Lab building suffered damages totaling \$2,596,380 (including flood plain management compliance). This results in mitigation costs of 68.76% of the "Irene" damages, and meets the requirements of Appendix A of FEMA 9526.1, which states, "The following potential mitigation measures (reference paragraph VII.B.2) are determined to be cost-effective if they: do not exceed 100% of project cost, are appropriate to the disaster damage, will prevent future similar damage, are directly related to the eligible damaged elements, do not increase risks or cause adverse effects to the property or elsewhere, are technically feasible for the hazard and location, and otherwise meet requirements stipulated in this policy, including environmental, historic, and mitigation planning considerations."</p> <p>The Applicant has indicated that they intend to demolish the Agricultural and Environmental Laboratory (AG Lab). Once the Applicant determines what they are going to do with the function of the Ag Lab, they can su</p>
29	Initial Review (EHP Rework)	NAUMAN FRANK	08-21-2013 06:50 PM GMT	HMP Added. F. Nauman 8/21/13
				<p>Scope of Work: Building repairs, WSOC Ag/Env Lab Building, Vt Department of Buildings and General Services, Washington County (44.33049 -72.75199). Interior and exterior in-kind repair/replacement, caused by flooding, include: ceramic tiles, rubber tiles, vinyl tiles, wood and carpeted floors; ceramic, plaster, wood and masonry walls; tile ceiling; wood and aluminum doors; wood and aluminum windows; electrical equipment; mechanical equipment; HVAC components; wood and metal cabinetry; bathroom fixtures and the elevator. The building was constructed in 1990.</p> <p>A Finding of No Significant Impact (FONSI) was determined on September 28, 2012 for the Washington State Office Complex</p>

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28	EHP Review	JONES TODD	08-20-2013 03:18 PM GMT	<p>September 28, 2012 for the Waterbury State Office Complex (WSOC) Project, Washington County, Vermont. The Ag/Env Lab Building is part of the WSOC and is therefore covered under this FONSI. (See attached FONSI).</p> <p>- sazizi1 - 11/19/2012 19:06:33 GMT</p> <p>Project is located within the Waterbury State Office Complex and is adjacent to wetlands. Review process and documentation was completed as part of EO 11988 – Floodplain Review, no wetlands will be affected. See EO 11988. - sazizi1 - 11/19/2012 19:14:43 GMT</p> <p>No Impacts to Listed Species or Habitat based on a review using VT Agency of Natural Resources' Natural Resource Atlas, accessed 11/19/12. - sazizi1 - 11/19/2012 19:11:19 GMT</p> <p>Per Flood Insurance Rate Map (DFIRM) panel number 5001220001C, Washington County, VT; this property is located within the Waterbury State Office Complex, portions of which are located within and adjacent to the Special Flood Hazard Areas (SFHA) (100-year floodplain). Based on the Environmental Assessment (EA) containing an extensive 8-Step Review, and a Finding of No Significant Impact (FONSI), the Regional Environmental Officer has approved FEMA funding for the proposed scope of work in this PW (see attached FONSI). - sazizi1 - 11/19/2012 19:14:03 GMT</p> <p>Year built: 1990. Facility is not of exceptional merit and does not meet the minimum 50 year age requirement for inclusion on the National Register. - sazizi1 - 11/19/2012 19:10:27 GMT</p>
27	EHP Review	JONES TODD	08-20-2013 03:18 PM GMT	<p>Scope of Work: Building repairs, WSOC Ag/Env Lab Building, Vt Department of Buildings and General Services, Washington County (44.33049 -72.75199). Interior and exterior in-kind repair/replacement, caused by flooding, include: ceramic tiles, rubber tiles, vinyl tiles, wood and carpeted floors; ceramic, plaster, wood and masonry walls; tile ceiling; wood and aluminum doors; wood and aluminum windows; electrical equipment; mechanical equipment; HVAC components; wood and metal cabinetry; bathroom fixtures and the elevator. The building was constructed in 1990.</p> <p>A Finding of No Significant Impact (FONSI) was determined on September 28, 2012 for the Waterbury State Office Complex (WSOC) Project, Washington County, Vermont. The Ag/Env Lab Building is part of the WSOC and is therefore covered under this FONSI. (See attached FONSI).</p> <p>- sazizi1 - 11/19/2012 19:06:33 GMT</p> <p>Project is located within the Waterbury State Office Complex and is adjacent to wetlands. Review process and documentation was completed as part of EO 11988 – Floodplain Review, no</p>

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				<p>wetlands will be affected. See EO 11988. - sazizi1 - 11/19/2012 19:14:43 GMT</p> <p>No Impacts to Listed Species or Habitat based on a review using VT Agency of Natural Resources' Natural Resource Atlas, accessed 11/19/12. - sazizi1 - 11/19/2012 19:11:19 GMT</p> <p>Per Flood Insurance Rate Map (DFIRM) panel number 5001220001C, Washington County, VT; this property is located within the Waterbury State Office Complex, portions of which are located within and adjacent to the Special Flood Hazard Areas (SFHA) (100-year floodplain). Based on the Environmental Assessment (EA) containing an extensive 3-Step Review, and a Finding of No Significant Impact (FONSI), the Regional Environmental Officer has approved FEMA funding for the proposed scope of work in this PW (see attached FONSI). - sazizi1 - 11/19/2012 19:14:03 GMT</p> <p>Year built: 1990. Facility is not of exceptional merit and does not meet the minimum 50 year age requirement for inclusion on the National Register. - sazizi1 - 11/19/2012 19:10:27 GMT</p>
26	EHP Review	JONES TODD	08-20-2013 03:18 PM GMT	<p>Scope of Work: Building repairs, WSOC Ag/Env Lab Building, VI Department of Buildings and General Services, Washington County (44.33049 -72.75139). Interior and exterior in-kind repair/replacement, caused by flooding, include: ceramic tiles, rubber tiles, vinyl tiles, wood and carpeted floors; ceramic, plaster, wood and masonry walls; tile ceiling; wood and aluminum doors; wood and aluminum windows; electrical equipment; mechanical equipment; HVAC components; wood and metal cabinetry; bathroom fixtures and the elevator. The building was constructed in 1990.</p> <p>A Finding of No Significant Impact (FONSI) was determined on September 28, 2012 for the Waterbury State Office Complex (WSOC) Project, Washington County, Vermont. The Ag/Env Lab Building is part of the WSOC and is therefore covered under this FONSI. (See attached FONSI). - sazizi1 - 11/19/2012 19:06:33 GMT</p> <p>Project is located within the Waterbury State Office Complex and is adjacent to wetlands. Review process and documentation was completed as part of EO 11988 - Floodplain Review, no wetlands will be affected. See EO 11988. - sazizi1 - 11/19/2012 19:14:43 GMT</p> <p>No Impacts to Listed Species or Habitat based on a review using VT Agency of Natural Resources' Natural Resource Atlas, accessed 11/19/12. - sazizi1 - 11/19/2012 19:11:19 GMT</p> <p>Per Flood Insurance Rate Map (DFIRM) panel number 5001220001C, Washington County, VT; this property is located</p>

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Federal Emergency Management Agency E-Grants

				<p>within the Waterbury State Office Complex, portions of which are located within and adjacent to the Special Flood Hazard Areas (SFHA) (100-year floodplain). Based on the Environmental Assessment (EA) containing an extensive 8-Step Review, and a Finding of No Significant Impact (FONSI), the Regional Environmental Officer has approved FEMA funding for the proposed scope of work in this PW (see attached FONSI). - sazizi1 - 11/19/2012 19:14:03 GMT</p> <p>Year built: 1990. Facility is not of exceptional merit and does not meet the minimum 50 year age requirement for inclusion on the National Register. - sazizi1 - 11/19/2012 19:10:27 GMT</p>
25	Insurance Review	SANDERSON DONALD	08-20-2013 03:16 PM GMT	<p>August 20, 2013 Released for rework. Don Sanderson VT DEPARTMENT OF BUILDINGS & GENERAL SERVICES - PW-03237</p> <p>11/16/2012 - This Sub-Grant Application-PW-03237 addresses flood damage from Tropical Storm Irene to Ag/Env Lab Building #06394 at the Waterbury State Office Complex (WSOC). The Applicant has insurance with Lexington Insurance Company (Policy # 021565511) with a blanket policy limit of \$300 million and a \$250,000 per occurrence deductible. A search of NEMIS and EMMIE prior disasters revealed there is no prior insurance commitment on this facility. The policy affords coverage for the work listed. The total amount of the PW is \$2,432,155 minus \$16,610 DAC equals \$2,415,545 minus \$2,415,545 anticipated flood insurance reduction (5901) equals \$0.00 eligible excluding DAC. The deductible was funded on PW 03072. There is no "Obtain & Maintain" Insurance Commitment on this facility (44 CFR 206.252). Don Sanderson, Insurance</p>
24	Insurance Review	REICH DAWN	08-20-2013 03:07 PM GMT	<p>VT DEPARTMENT OF BUILDINGS & GENERAL SERVICES - PW-03237</p> <p>11/16/2012 - This Sub-Grant Application-PW-03237 addresses flood damage from Tropical Storm Irene to Ag/Env Lab Building #06394 at the Waterbury State Office Complex (WSOC). The Applicant has insurance with Lexington Insurance Company (Policy # 021565511) with a blanket policy limit of \$300 million and a \$250,000 per occurrence deductible. A search of NEMIS and EMMIE prior disasters revealed there is no prior insurance commitment on this facility. The policy affords coverage for the work listed. The total amount of the PW is \$2,432,155 minus \$16,610 DAC equals \$2,415,545 minus \$2,415,545 anticipated flood insurance reduction (5901) equals \$0.00 eligible excluding DAC. The deductible was funded on PW 03072. There is no "Obtain & Maintain" Insurance Commitment on this facility (44 CFR 206.252). Don Sanderson, Insurance</p>

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Federal Emergency Management Agency Ex-Grants

23	Insurance Review	WHITTON KELLI	08-16-2013 03:08 PM GMT	<p>VT DEPARTMENT OF BUILDINGS & GENERAL SERVICES – PW-03237</p> <p>11/16/2012 – This Sub-Grant Application-PW-03237 addresses flood damage from Tropical Storm Irene to Ag/Env Lab Building #06394 at the Waterbury State Office Complex (WSOC). The Applicant has insurance with Lexington Insurance Company (Policy # 021565511) with a blanket policy limit of \$300 million and a \$250,000 per occurrence deductible. A search of NEMIS and EMMIE prior disasters revealed there is no prior insurance commitment on this facility. The policy affords coverage for the work listed. The total amount of the PW is \$2,432,155 minus \$16,610 DAC equals \$2,415,545 minus \$2,415,545 anticipated flood insurance reduction (5901) equals \$0.00 eligible excluding DAC. The deductible was funded on PW 03072. There is no "Obtain & Maintain" Insurance Commitment on this facility (44 CFR 206.252). Don Sanderson, Insurance</p>
22	Insurance Review	WHITTON KELLI	08-05-2013 03:04 PM GMT	<p>VT DEPARTMENT OF BUILDINGS & GENERAL SERVICES – PW-03237</p> <p>11/16/2012 – This Sub-Grant Application-PW-03237 addresses flood damage from Tropical Storm Irene to Ag/Env Lab Building #06394 at the Waterbury State Office Complex (WSOC). The Applicant has insurance with Lexington Insurance Company (Policy # 021565511) with a blanket policy limit of \$300 million and a \$250,000 per occurrence deductible. A search of NEMIS and EMMIE prior disasters revealed there is no prior insurance commitment on this facility. The policy affords coverage for the work listed. The total amount of the PW is \$2,432,155 minus \$16,610 DAC equals \$2,415,545 minus \$2,415,545 anticipated flood insurance reduction (5901) equals \$0.00 eligible excluding DAC. The deductible was funded on PW 03072. There is no "Obtain & Maintain" Insurance Commitment on this facility (44 CFR 206.252). Don Sanderson, Insurance</p>
21	Insurance Review	SANDERSON DONALD	02-12-2013 07:00 PM GMT	<p>VT DEPARTMENT OF BUILDINGS & GENERAL SERVICES – PW-03237</p> <p>11/16/2012 – This Sub-Grant Application-PW-03237 addresses flood damage from Tropical Storm Irene to Ag/Env Lab Building #06394 at the Waterbury State Office Complex (WSOC). The Applicant has insurance with Lexington Insurance Company (Policy # 021565511) with a blanket policy limit of \$300 million and a \$250,000 per occurrence deductible. A search of NEMIS and EMMIE prior disasters revealed there is no prior insurance commitment on this facility. The policy affords coverage for the work listed. The total amount of the PW is \$2,432,155 minus \$16,610 DAC equals \$2,415,545 minus \$2,415,545 anticipated flood insurance reduction (5901) equals \$0.00 eligible excluding</p>

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Federal Emergency Management Agency E-Grants

				DAC. The deductible was funded on PW 03072. There is no "Obtain & Maintain" Insurance Commitment on this facility (44 CFR 206.252). Don Sanderson, Insurance
20	Initial Review	BRIDGES STERLING	02-12-2013 03:27 PM GMT	This PW has been reviewed and appears to be complete and eligible. Bill Chase 11-16-2012 2/12/2013: The Village of Waterbury has jurisdiction for zoning and permitting, including NFIP floodplain management compliance. FEMA Public Assistance has determined that the Waterbury Interim Zoning Ordinance appears to meet the requirements of the five criteria and is therefore considered an applicable code and standard in accordance with 44 CFR 206.226(d).
19	Initial Review	BRIDGES STERLING	02-11-2013 03:14 PM GMT	This PW has been reviewed and appears to be complete and eligible. Bill Chase 11-16-2012
18	Project Closeout	DZIUBAKOWSKI THOMAS	01-16-2013 07:28 PM GMT	Open PW for version 1 - Primarily Floodplain Management Compliance and minor cost increase for reinstalling devices in ceiling
17	Award Review	SYSTEM	11-28-2012 03:02 PM GMT	ACCEPTED
16	EHP Review	THOMAS PETER	11-19-2012 07:39 PM GMT	Scope of Work: Building repairs, WSOC Ag/Env Lab Building, Vt Department of Buildings and General Services, Washington County (44.33049 -72.75199). Interior and exterior in-kind repair/replacement, caused by flooding, include: ceramic tiles, rubber tiles, vinyl tiles, wood and carpeted floors; ceramic, plaster, wood and masonry walls; tile ceiling; wood and aluminum doors; wood and aluminum windows; electrical equipment; mechanical equipment; HVAC components; wood and metal cabinetry; bathroom fixtures and the elevator. The building was constructed in 1990. A Finding of No Significant Impact (FONSI) was determined on September 28, 2012 for the Waterbury State Office Complex (WSOC) Project, Washington County, Vermont. The Ag/Env Lab Building is part of the WSOC and is therefore covered under this FONSI. (See attached FONSI). - saizizi1 - 11/19/2012 19:06:33 GMT Project is located within the Waterbury State Office Complex and is adjacent to wetlands. Review process and documentation was completed as part of EO 11988 - Floodplain Review, no wetlands will be affected. See EO 11988. - saizizi1 - 11/19/2012 19:14:43 GMT No Impacts to Listed Species or Habitat based on a review using Vt Agency of Natural Resources' Natural Resource Atlas

<https://asource.fema.gov/emc/view-application.asp?no-review-id=&stopTitle=bias chHeader&voInternalWork&startdate=&voInternalGoBackUrl=&function=&pageTitle=&bottomTitle=&pageType=view&voSection=>

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				<p>VT Agency of Natural Resources Natural Resource Fund, accessed 11/19/12. - saziz11 - 11/19/2012 19:11:19 GMT</p> <p>Per Flood Insurance Rate May (DFIRM) panel number 5001220001C, Washington County, VT; this property is located within the Waterbury State Office Complex, portions of which are located within and adjacent to the Special Flood Hazard Areas (SFHA) (100-year floodplain). Based on the Environmental Assessment (EA) containing an extensive 8-Step Review, and a Finding of No Significant Impact (FONSI), the Regional Environmental Officer has approved FEMA funding for the proposed scope of work in this PW (see attached FONSI). - saziz11 - 11/19/2012 19:14:03 GMT</p> <p>Year built: 1990. Facility is not of exceptional merit and does not meet the minimum 50 year age requirement for inclusion on the National Register. - saziz11 - 11/19/2012 19:10:27 GMT</p>
15	Mitigation Review	DOWNER RICHARD	11-19-2012 03:56 PM GMT	11/19/12 after discussion with Galen Costigan, PA Specialist, an earlier Mitigation place-holder for \$1,349,950 was deleted by Richard N. Downer.
14	Insurance Review	SANDERSON DONALD	11-16-2012 07:15 PM GMT	<p>VT DEPARTMENT OF BUILDINGS & GENERAL SERVICES - PW-03237</p> <p>11/16/2012 -- This Sub-Grant Application-PW-03237 addresses flood damage from Tropical Storm Irene to Ag/Env Lab Building #06394 at the Waterbury State Office Complex (WSOC). The Applicant has insurance with Lexington Insurance Company (Policy # 021565511) with a blanket policy limit of \$300 million and a \$250,000 per occurrence deductible. A search of NEMIS and EMMIE prior disasters revealed there is no prior insurance commitment on this facility. The policy affords coverage for the work listed. The total amount of the PW is \$2,432,155 minus \$16,610 DAC equals \$2,415,545 minus \$2,415,545 anticipated flood insurance reduction (5901) equals \$0.00 eligible excluding DAC. The deductible was funded on PW 03072. There is no "Obtain & Maintain" Insurance Commitment on this facility (44 CFR 206.252). Don Sanderson, Insurance</p>
13	Initial Review	CHASE WILLIAM	11-16-2012 03:02 PM GMT	This PW has been reviewed and appears to be complete and eligible. Bill Chase 11-16-2012
12	Initial Review	CHASE WILLIAM	11-15-2012 09:23 PM GMT	On-Hold
11	Initial Review	COSTIGAN GALEN	11-15-2012 07:33 PM GMT	On-Hold
10	Initial Review	COSTIGAN GALEN	11-15-2012 03:06 PM GMT	On-Hold
9	Initial Review	MINNS BRIAN	11-13-2012 02:45 PM	On-Hold

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	Initial Review		GMT	
8	Initial Review	MINNS BRIAN	11-13-2012 02:37 PM GMT	On-Hold
7	Initial Review	MINNS BRIAN	11-05-2012 07:39 PM GMT	On-Hold
6	Initial Review	MINNS BRIAN	11-05-2012 07:37 PM GMT	On-Hold
5	Initial Review	COSTIGAN GALEN	10-29-2012 06:08 PM GMT	On-Hold
4	Initial Review	COSTIGAN GALEN	10-26-2012 01:18 PM GMT	On-Hold
3	Initial Review	PROUTY THOMAS	10-26-2012 01:16 PM GMT	On-Hold
2	Initial Review	PERRY THOMAS	10-24-2012 03:55 PM GMT	On-Hold
1	Initial Review	BRIDGES STERLING	10-17-2012 04:02 PM GMT	On-Hold

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FEMA

FEB 23 2016

Justin Johnson
Secretary of Administration
Vermont Emergency Management Agency
103 South Main Street,
Waterbury VT 05671

Dear Mr. Johnson;

Re: Individual and Household Program Other Needs Assistance (ONA),
FEMA provision for DR-4022-VT.

The Federal Emergency Management Agency's ("FEMA") Disaster Finance Branch has completed the review of the Individual and Household ONA Program, FEMA provision for DR-4022-VT.

The enclosed updated Statement of Account details the financial status of the ONA Program, FEMA provision. This is not a final statement with regards to the State's cost share portion with FEMA for this program.

If debt collection activities are ongoing and additional funds are collected, payments will be sent to the State for their percentage of the amount collected. Likewise, if additional payments are made to individuals, the State may receive an invoice for the cost share.

After the State has reviewed and concurred with the status, as of the date of the report, FEMA will proceed with the closeout process.

If you have any questions please contact Becky Szymcik, Individual Assistance Branch Chief at 617-956-7565, Becky.Szymcik@fema.dhs.gov or Elizabeth Rosario at 617-832-4748, Elizabeth.Rosario@fema.dhs.gov.

Sincerely,

A handwritten signature in black ink, appearing to read "Paul F. Ford", is written over a printed name.

Paul F. Ford
Acting Regional Administrator
FEMA Region I

PFF:er

cc: Bob Costantino, IA State Officer

Enclosures (1)

STATEMENT OF ACCOUNT

2/11/2016

S U M M A R Y						
Description	100%	Fed Share 75%	State Share 25%	Cost Share & Interest Billed	Cost Share & Interest Unbilled	Federal Responsibility
Gross Disbursements per IFMIS	1,669,931.00					
* Payments to State	1,317.82	1,251,459.89	417,153.29			1,251,459.89
Total Program Costs	1,668,613.18					
Program Costs Billed to Date	1,658,961.42	1,244,221.07	414,740.35	414,740.35		
Program Costs Unbilled Amount	9,651.76	7,238.82	2,412.94		2,412.94	
Cancellation Received	(14,125.39)	(10,594.04)	(3,531.35)			(10,594.04)
Billed to Date	(14,125.39)	(10,594.04)	(3,531.35)	(3,531.35)		
Unbilled Amount	0.00	0.00	0.00		0.00	
Refunds from Individuals	(17,854.16)	(13,390.60)	(4,463.56)			(13,390.60)
Billed to Date	(6,659.76)	(4,994.81)	(1,664.95)	(1,664.95)		
Unbilled Amount	(11,194.40)	(8,395.79)	(2,798.61)		(2,798.61)	
(a) Net Cost Share				409,544.05		
(b) Receipts from State for Cost Share & Interest				409,544.05		
(c) Outstanding Cost Share & Interest Balance (a minus b)				(0.00)		
(d) Subtotal State Owes FEMA - unbilled activity (FEMA owes state if negative) (total unbilled column)					(385.67)	
(e) * Payments to State (detail below) excess cost share collected					1,317.82	
(f) Adjustments - Group Flood Duplicate Premium Cost Share					(1,050.00)	
(g) Balance State owes FEMA (FEMA owes state if negative) (c plus d plus e plus f)					(117.85)	
* Check issued to State 1/31/13	149.18			* Check issued to State 4/22/15	18.48	
* Check issued to State 9/4/13	725.89			* Check issued to State 10/23/15	168.57	
* Check issued to State 8/22/14	32.90			* Check issued to State 1/29/16	117.85	
* Check issued to State 1/22/15	222.80					
Federal Share at Closeout						1,227,475.25

THIS REPORT IS FOR PROGRAM RECONCILIATION ONLY AND NOT TO BE CONSIDERED AN OFFICIAL STATUS REGARDING A DEBT

I concur with the information presented in this Statement of Account as it relates to the Other Needs Assistance program for FEMA disaster 4022-VT.

Report data is current through 01/01/16.
Activity after that date will be included on a future bill.

Interest on past due amounts may not be included in this summary.

Justin Johnson, Sec. of Administration
Vermont Emergency Management Agency

Date

3/8/2016

STATEMENT OF ACCOUNT

2/11/2016

Description	100%	S U M M A R Y				Federal Responsibility
		Fed Share 75%	State Share 25%	Cost Share & Interest Billed	Cost Share & Interest Unbilled	
Gross Disbursements per IFMIS	1,669,931.00					
* Payments to State	1,317.82	1,251,459.89	417,153.29			1,251,459.89
Total Program Costs	1,668,613.18					
Program Costs Billed to Date	1,658,961.42	1,244,221.07	414,740.35	414,740.35		
Program Costs Unbilled Amount	9,651.76	7,238.82	2,412.94		2,412.94	
Cancellation Received	(14,125.39)	(10,594.04)	(3,531.35)			(10,594.04)
Billed to Date	(14,125.39)	(10,594.04)	(3,531.35)	(3,531.35)		
Unbilled Amount	0.00	0.00	0.00		0.00	
Refunds from Individuals	(17,854.16)	(13,390.60)	(4,463.56)			(13,390.60)
Billed to Date	(6,659.76)	(4,994.81)	(1,664.95)	(1,664.95)		
Unbilled Amount	(11,194.40)	(8,395.79)	(2,798.61)	(1,664.95)	(2,798.61)	
(a) Net Cost Share				409,544.05		
(b) Receipts from State for Cost Share & Interest				409,544.05		
(c) Outstanding Cost Share & Interest Balance (a minus b)				(0.00)		
(d) Subtotal State Owes FEMA - unbilled activity (FEMA owes state if negative) (total unbilled column)					(385.67)	
(e) * Payments to State (detail below) excess cost share collected					1,317.82	
(f) Adjustments - Group Flood Duplicate Premium Cost Share					(1,050.00)	
(g) Balance State owes FEMA (FEMA owes state if negative) (c plus d plus e plus f)					(117.85)	
* Check issued to State 1/31/13	149.18			* Check issued to State 4/22/15	18.48	
* Check issued to State 9/4/13	725.89			* Check issued to State 10/23/15	168.57	
* Check issued to State 8/22/14	32.90			* Check issued to State 1/29/16	117.85	
* Check issued to State 1/22/15	222.80					
Federal Share at Closeout						1,227,475.25

THIS REPORT IS FOR PROGRAM RECONCILIATION ONLY AND NOT TO BE CONSIDERED AN OFFICIAL STATUS REGARDING A DEBT

I concur with the information presented in this Statement of Account as it relates to the Other Needs Assistance program for FEMA disaster 4022-VT.

Report data is current through 01/01/16.
Activity after that date will be included on a future bill.

Interest on past due amounts may not be included in this summary.

Please refer to your last statement for Accounts Receivable contact information if you have questions regarding current cost share balance or interest.

Justin Johnson, Sec. of Administration
Vermont Emergency Management Agency

3/8/2016

Date

STATEMENT OF ACCOUNT

S U M M A R Y						
Description	100%	Fed Share 75%	State Share 25%	Cost Share & Interest Billed	Cost Share& Interest Unbilled	Federal Responsibility
Gross Disbursements per IFMIS	1,669,931.00					
* Payments to State	1,317.82					
Total Program Costs	1,668,613.18	1,251,459.89	417,153.29			1,251,459.89
Program Costs Billed to Date	1,658,961.42	1,244,221.07	414,740.35	414,740.35		
Program Costs Unbilled Amount	9,651.76	7,238.82	2,412.94		2,412.94	
Cancellation Received	(14,125.39)	(10,594.04)	(3,531.35)			(10,594.04)
Billed to Date	(14,125.39)	(10,594.04)	(3,531.35)	(3,531.35)		
Unbilled Amount	0.00	0.00	0.00		0.00	
Refunds from Individuals	(17,854.16)	(13,390.60)	(4,463.56)			(13,390.60)
Billed to Date	(6,659.76)	(4,994.81)	(1,664.95)	(1,664.95)		
Unbilled Amount	(11,194.40)	(8,395.79)	(2,798.61)		(2,798.61)	

THIS REPORT IS FOR PROGRAM RECONCILIATION ONLY AND NOT TO BE CONSIDERED AN OFFICIAL STATUS REGARDING A DEBT

I concur with the information presented in this Statement of Account as it relates to the Other Needs Assistance program for FEMA disaster 4022-VT.

Report data is current through 01/01/16.
Activity after that date will be included on a future bill.

Interest on past due amounts may not be included in this summary.

Please refer to your last statement for Accounts Receivable contact information if you have questions regarding current cost share balance or interest.

Justin Johnson, Sec. of Administration
Vermont Emergency Management Agency

3/9/2016

Date



FEMA

FEB 23 2016

Justin Johnson
Secretary of Administration
Vermont Emergency Management Agency
103 South Main Street,
Waterbury VT 05671

Dear Mr. Johnson:

Re: Individual and Household Program Other Needs Assistance (ONA),
FEMA provision for DR-1995-VT.

The Federal Emergency Management Agency's ("FEMA") Disaster Finance Branch has completed the review of the Individual and Household ONA Program, FEMA provision for DR-1995-VT.

The enclosed updated Statement of Account details the financial status of the ONA Program, FEMA provision. This is not a final statement with regards to the State's cost share portion with FEMA for this program.

If debt collection activities are ongoing and additional funds are collected, payments will be sent to the State for their percentage of the amount collected. Likewise, if additional payments are made to individuals, the State may receive an invoice for the cost share.

After the State has reviewed and concurred with the status, as of the date of the report, FEMA will proceed with the closeout process.

If you have any questions please contact Becky Szymcik, Individual Assistance Branch Chief at 617-956-7565, Becky.Szymcik@fema.dhs.gov or Elizabeth Rosario at 617-832-4748, Elizabeth.Rosario@fema.dhs.gov.

Sincerely,

A handwritten signature in dark ink, appearing to read "Paul F. Ford", is written over a faint, circular official stamp.

Paul F. Ford
Regional Administrator
FEMA Region I

PFF:er

cc: Bob Costantino, IA State Officer

Enclosures (1)

DR-1995-VT
Other Needs Assistance
Receivables Status 01/01/16

STATEMENT OF ACCOUNT

2/11/2016

S U M M A R Y						
Description	100%	Fed Share 75%	State Share 25%	Cost Share & Interest Billed	Cost Share & Interest Unbilled	Federal Responsibility
Gross Disbursements per IFMIS	64,857.24					
* Payments to State	142.49					
Total Program Costs	64,714.75	48,536.07	16,178.68			48,536.07
Program Costs Billed to Date	64,714.75	48,536.07	16,178.68	16,178.68		
Program Costs Unbilled Amount	0.00	0.00	0.00		0.00	
Cancellation Received	(1,171.03)	(878.27)	(292.76)			(878.27)
Billed to Date	(1,171.03)	(878.27)	(292.76)	(292.76)		
Unbilled Amount	0.00	0.00	0.00		0.00	
Refunds from Individuals	(662.22)	(496.65)	(165.57)			(496.65)
Billed to Date	(92.30)	(69.22)	(23.08)	(23.08)		
Unbilled Amount	(569.92)	(427.43)	(142.49)		(142.49)	
(a) Net Cost Share				15,862.84		
(b) Receipts from State for Cost Share & Interest				15,862.84		
(c) Outstanding Cost Share & Interest Balance (a minus b)				(0.00)		
(d) Subtotal State Owes FEMA - unbilled activity (FEMA owes state if negative) (total unbilled column)					(142.49)	
(e) * Payments to State (detail below) excess cost share collected					142.49	
(f) Adjustments					0.00	
(g) Balance State owes FEMA (FEMA owes state if negative) (c plus d plus e plus f)					(0.00)	
* Check issued to State 5/20/13					115.92	
* Check issued to State 8/8/13					24.51	
* Check issued to State 2/24/14					2.06	

Federal Share at Closeout

47,161.15

THIS REPORT IS FOR PROGRAM RECONCILIATION ONLY AND NOT TO BE CONSIDERED AN OFFICIAL STATUS REGARDING A DEBT

I concur with the information presented in this Statement of Account as it relates to the Other Needs Assistance program for FEMA disaster 1995-VT.

Report data is current through 01/01/16.

Activity after that date will be included on a future bill.

Interest on past due amounts may not be included in this summary.

Justin Johnson, Sec. of Administration
Vermont Emergency Management Agency

Date

3/8/2016

Please refer to your last statement for Accounts Receivable contact information if you have questions regarding current cost share balance or interest.

DR-1995-VT
Other Needs Assistance
Receivables Status 01/01/16

STATEMENT OF ACCOUNT

2/11/2016

S U M M A R Y						
Description	100%	Fed Share 75%	State Share 25%	Cost Share & Interest Billed	Cost Share & Interest Unbilled	Federal Responsibility
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* Payments to State	142.49					
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Program Costs Billed to Date	64,714.75	48,536.07	16,178.68	16,178.68		
Program Costs Unbilled Amount	0.00	0.00	0.00		0.00	
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Unbilled Amount	0.00	0.00	0.00		0.00	
Refunds from Individuals	(662.22)	(496.65)	(165.57)			(496.65)
Billed to Date	(92.30)	(69.22)	(23.08)	(23.08)		
Unbilled Amount	(569.92)	(427.43)	(142.49)	(142.49)	(142.49)	
(a) Net Cost Share				15,862.84		
(b) Receipts from State for Cost Share & Interest				15,862.84		
(c) Outstanding Cost Share & Interest Balance (a minus b)				(0.00)		
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* Check issued to State 8/8/13					24.51	
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Federal Share at Closeout						47,161.15

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Justin Johnson, Sec. of Administration
Vermont Emergency Management Agency

Date

3/8/2016

Please refer to your last statement for Accounts Receivable contact information if you have questions regarding current cost share balance or interest.

DR-1995-VT
Other Needs Assistance
Receivables Status 01/01/16

2/11/2016

STATEMENT OF ACCOUNT

S U M M A R Y						
Description	100%	Fed Share 75%	State Share 25%	Cost Share & Interest Billed	Cost Share & Interest Unbilled	Federal Responsibility
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Program Costs Billed to Date	64,714.75	48,536.07	16,178.68	16,178.68		
Program Costs Unbilled Amount	0.00	0.00	0.00		0.00	
Cancellation Received	(1,171.03)	(878.27)	(292.76)			(878.27)
Billed to Date	(1,171.03)	(878.27)	(292.76)	(292.76)		
Unbilled Amount	0.00	0.00	0.00		0.00	
Refunds from Individuals	(662.22)	(496.65)	(165.57)			(496.65)
Billed to Date	(92.30)	(69.22)	(23.08)	(23.08)		
Unbilled Amount	(569.92)	(427.43)	(142.49)	(142.49)	(142.49)	
(a) Net Cost Share				15,862.84		
(b) Receipts from State for Cost Share & Interest				15,862.84		
(c) Outstanding Cost Share & Interest Balance (a minus b)				(0.00)		
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Federal Share at Closeout						47,161.15

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I concur with the information presented in this Statement of Account as it relates to the Other Needs Assistance program for FEMA disaster 1995-VT.

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Please refer to your last statement for Accounts Receivable contact information if you have questions regarding current cost share balance or interest.

Justin Johnson, Sec. of Administration
Vermont Emergency Management Agency
Date 3/8/2016



FEMA

FEB 23 2016

Justin Johnston
Secretary of Administration
Vermont Emergency Management Agency
103 South Main Street,
Waterbury VT 05671

Dear Mr. Johnson:

Re: Individual and Household Program Other Needs Assistance (ONA),
FEMA provision for DR-4001-VT.

The Federal Emergency Management Agency's ("FEMA") Disaster Finance Branch has completed the review of the Individual and Household ONA Program, FEMA provision for DR-4001-VT.

The enclosed updated Statement of Account details the financial status of the ONA Program, FEMA provision. This is not a final statement with regards to the State's cost share portion with FEMA for this program.

If debt collection activities are ongoing and additional funds are collected, payments will be sent to the State for their percentage of the amount collected. Likewise, if additional payments are made to individuals, the State may receive an invoice for the cost share.

After the State has reviewed and concurred with the status, as of the date of the report, FEMA will proceed with the closeout process.

If you have any questions please contact Becky Szymcik, Individual Assistance Branch Chief at 617-956-7565, Becky.Szymcik@fema.dhs.gov or Elizabeth Rosario at 617-832-4748, Elizabeth.Rosario@fema.dhs.gov.

Sincerely,

A handwritten signature in black ink, appearing to read "Paul F. Ford", is written over a horizontal line.

Paul F. Ford
Regional Administrator
FEMA Region I

PFF:er

cc: Bob Costantino, IA State Officer

Enclosures (1)

DR-4001-VT
Other Needs Assistance
Receivables Status 01/01/16

STATEMENT OF ACCOUNT

2/11/2016

S U M M A R Y						
Description	100%	Fed Share 75%	State Share 25%	Cost Share & Interest Billed	Cost Share & Interest Unbilled	Federal Responsibility
Gross Disbursements per IFMIS	139,840.79					
* Payments to State	194.50	104,734.72	34,911.57			104,734.72
Total Program Costs	139,646.29					
Program Costs Billed to Date	139,646.29	104,734.72	34,911.57	34,911.57		
Program Costs Unbilled Amount	0.00	0.00	0.00		0.00	
Cancellation Received	0.00	0.00	0.00			0.00
Billed to Date	0.00	0.00	0.00	0.00		
Unbilled Amount	0.00	0.00	0.00		0.00	
Refunds from Individuals	(2,883.98)	(2,162.98)	(721.00)			
Billed to Date	(2,105.98)	(1,579.48)	(526.50)	(526.50)		
Unbilled Amount	(778.00)	(583.50)	(194.50)		(194.50)	(2,162.98)
(a) Net Cost Share				34,385.07		
(b) Receipts from State for Cost Share & Interest				34,385.07		
(c) Outstanding Cost Share & Interest Balance (a minus b)				(0.00)		
(d) Subtotal State Owes FEMA - unbilled activity (FEMA owes state if negative) (total unbilled column)					(194.50)	
(e) * Payments to State (detail below) excess cost share collected					194.50	
(f) Adjustments					0.00	
(g) Balance State owes FEMA (FEMA owes state if negative) (c plus d plus e plus f)					(0.00)	
* Check issued to State 10/18/12					194.50	

Federal Share at Closeout

102,571.74

THIS REPORT IS FOR PROGRAM RECONCILIATION ONLY AND NOT TO BE CONSIDERED AN OFFICIAL STATUS REGARDING A DEBT

I concur with the information presented in this Statement of Account as it relates to the Other Needs Assistance program for FEMA disaster 4001-VT.

Report data is current through 01/01/16.

Activity after that date will be included on a future bill.

Interest on past due amounts may not be included in this summary.

Justin Johnson, Sec. of Administration
Vermont Emergency Management Agency

Date

3/8/2016

STATEMENT OF ACCOUNT

2/11/2016

S U M M A R Y						
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Cancellation Received	0.00	0.00	0.00			0.00
Billed to Date	0.00	0.00	0.00	0.00		
Unbilled Amount	0.00	0.00	0.00		0.00	
Refunds from Individuals	(2,883.98)	(2,162.98)	(721.00)			(2,162.98)
Billed to Date	(2,105.98)	(1,579.48)	(526.50)	(526.50)		
Unbilled Amount	(778.00)	(583.50)	(194.50)		(194.50)	
(a) Net Cost Share				34,385.07		
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Justin Johnson, Sec. of Administration
Vermont Emergency Management Agency

3/8/2016

Date

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Federal Share at Closeout

102,571.74

THIS REPORT IS FOR PROGRAM RECONCILIATION ONLY AND NOT TO BE CONSIDERED AN OFFICIAL STATUS REGARDING A DEBT

I concur with the information presented in this Statement of Account as it relates to the Other Needs Assistance program for FEMA disaster 4001-VT.

Report data is current through 01/01/16. Activity after that date will be included on a future bill.

Interest on past due amounts may not be included in this summary.

Please refer to your last statement for Accounts Receivable contact information if you have questions regarding current cost share balance or interest.

Justin Johnson, Sec. of Administration

Vermont Emergency Management Agency

3/8/2016

Date

Johnson, Harriet

From: Pentkowski, Ron
Sent: Tuesday, January 05, 2016 5:01 PM
To: Clasen, Michael
Cc: Johnson, Harriet
Subject: Update for FEMA R1 for Vermont Agriculture and Environmental Lab (AG Lab) [UNSECURED]
Attachments: GAR supplemental package cover letter to FEMA r1.docx; GAR Cover letter with Attachments.pdf; FINAL update.pdf
Importance: High

*Michael raised.
has*

Michael,

Please find attached a letter I've drafted which is intended as a request from the GAR to FEMA Region 1 Regional Administrator (in Word for transfer to A of A letterhead), as well as the pdf attachments intended to provide a chronological account of the steps to this point.

Please review and edit should you like. Both the GAR letter and the BGS package were reviewed by Jacob Humbert, Assistant Attorney General. If you are in agreement, would you please have it executed by Secretary Johnson as GAR?

Also find a separate letter identified with file name "FINAL update" from Commissioner Obuchowski (BGS, as Applicant) to DEMHS (with attachments), which comprises the Supplemental Package anticipated by FEMA Region 1, for the Improved Project aspect of the Ag Lab. Once the Environmental Assessment (EA) now in progress, is complete and approved by FEMA, the construction phase RFP may be submitted to prospective bidders with an anticipated award date of June, 2016.

If Harriet could return the executed letter from Secretary Johnson to me via e-mail, it will be submitted to FEMA Region 1 as a complete package. Thank you very much.

Regards,
Ron

Ron Pentkowski | Public Assistance Coordinator

Vermont Division of Emergency Management & Homeland Security

Desk: 802-241-5366 | Cell: 802-585-0142

ron.pentkowski@vermont.gov

45 State Drive | Waterbury, VT 05671-1300



*Michael -
ok for Justin
to sign?*

January 4, 2015

Mr. Paul Ford
Acting Regional Administrator (RA)
FEMA, Region 1
99 High Street, Boston MA

Mr. Robert Grimley
Director, Recovery Division
FEMA, Region 1
99 High Street, Boston MA

Re: *Update:* for Sandy Recovery and Improvement Act (SRIA) Alternative Procedures Pilot Program; FEMA-4022-DR-VT-PW-03237(2) Ag Laboratory; Applicant - Vermont Department of Buildings and General Services-BGS

Dear Mr. Ford and Mr. Grimley,

The purpose of this letter with regard to the referenced project worksheet, is to provide an update to the progress since my original submittal (see *letter from GAR, dated March 30, 2015 – Attachment A*). That letter addressed an update to the progress of the project since May 2014; a request for an Improved Project; and a request for Time Extension.

Update:

Since May 29, 2013, the Vermont General Assembly has made the following relevant appropriations to the Applicant (Dep't of Buildings and General Services): ~~\$100,000 for FY 2014 via 2014 No. 51, § 2(b)(17); \$300,000 for FY 2015 via 2014 (Adj. Sess.) No. 178, § 1 (amending 2014 No. 51 to add § 2(c)(12)); \$2.5M for FY 2016 via 2015 No. 26, § 2(b)(14); and an anticipated \$14.048M for FY2017 via 2015 No. 26, § 2(c)(10).~~ Further, the Applicant intends to request an additional \$7.1M ~~\$8.652M~~ for FY 2018. The anticipated total project cost is \$25.6M. Of that, the anticipated contribution from FEMA, is \$1,607,110.20 less the State's share of \$1,785,678.

To date, the Applicant has initiated design development and completed a schematic design for a new collaborative laboratory; and has initiated permitting and the Environmental Assessment (EA) process with assistance from DuBois and King, the selected environmental consultant contractor for the Agencies of Agriculture and Natural Resources.

The Applicant entered into a FEMA PA Sandy Recovery and Improvement Act (SRIA) Alternative Procedures Pilot Program permanent work subgrant, based on a fixed cost estimate in the amount of \$1,802,288 (subgrant number PA-01-VT-4022-PW-03237). This was derived as: \$1,785,678 (Hazard Mitigation) + \$16,610 (Direct Administrative Costs (DAC)) = \$1,802,288. Please note that the since that time, the Direct Administrative Costs (DAC) were waived by the State of Vermont (see *letter from GAR dated September 30, 2015 – Attachment B*), thus reducing the fixed cost estimate by \$16,610, to \$1,785,678.

Additional documents intended as supplemental to the original submittal on March 28, 2015 for *Project Worksheet #3237(2); Ag Laboratory SRIA Fixed Cost Estimate: FEMA-4022-DR-VT* are included with this letter.

The Vermont Department of Public Safety, Division of Emergency Management/Homeland Security

FY11
Wanda's
edits

(DEMHS), acting through the Grantee, Vermont Agency of Transportation (VTrans), received the Applicant's request for an Improved Project and Time Extension for Project Worksheet #3237(2) - Ag Laboratory. DEMHS, acting on behalf of the Grantee (VTrans) supported this request for Improved Project and Time Extension and requested approval by FEMA Region 1 (see *letter from GAR, dated March 28, 2015* – Attachment C). DEMHS has since received approval for the Time Extension (to June 30, 2018) and conditional approval for the Improved Project (see *letter from FEMA, George F. Vanderschmidt, dated October 19, 2015* – Attachment D). This letter serves as official notification to the Applicant that the Time Extension is hereby effectuated through June 30, 2018 and that the following must be completed in order to secure approval from the FEMA Region 1 Regional Administrator for the Improved Project, currently identified as version 2 of the Project Worksheet #3237(2) - Ag Laboratory (see *Project Worksheet #03237(2)* – Attachment E).

It is understood that DEMHS has presented the necessary supportive documentation provided by the Applicant in the original submittal dated March 30, 2015 and with this supplemental package.

Per Part III – Conclusion (page 7), of the October 19, 2015 letter from George F. Vanderschmidt, the conditional approval is in effect until the Applicant 1) Completes an Environmental Assessment (EA) with FEMA - which is currently in-progress, and a successful completion is anticipated; and 2) provide documentation that the proposed scope of work provides at least the same flood protection as the hazard mitigation measures in the original PW - This documentation is included on Attachments #1 and #5 of the attached supplemental documentation. Once the EA is completed to the satisfaction of FEMA Region 1, all requirements for Final Approval should be met.

As the Governor's Authorized Representative (GAR), I am requesting on behalf of the Applicant (BGS), and through DEMHS, FEMA's acceptance of these supplemental documents as meeting conditional item #2 - *Flood protection* and the anticipated completion of conditional approval item #1 - *EA* (currently in-progress) constituting Final Approval for the referenced Improved Project, with sufficient time to allow the Applicant to meet their anticipated construction completion goal of June 30, 2018 (see *Project Timeline*, from original submittal identified as attachment #19 – but here identified as Attachment F).

Sincerely,

Justin Johnson, Secretary
Vermont Agency of Administration
Governor's Authorized Representative (GAR)

Cc via e-mail:
Michael Obuchowski, Commissioner
Vermont Dept. Buildings and General Services (BGS)

Sandra Vitzthum, LEED AP
Project Manager II
Vermont Dept. Buildings and General Services (BGS)

VERMONT AGRICULTURE ENVIRONMENTAL LABORATORY
PROPOSED PROJECT SCHEDULE w/ FUNDING NEEDS
JANUARY 21, 2015

ATTACHMENT 19

TASK	DUR	2014		2015				2016				2017				2018				2019				2020			
		FY 2014		FY 2015		FY 2016		FY 2017		FY 2018		FY 2019		FY 2020		FY 2021		FY 2022		FY 2023		FY 2024		FY 2025			
		Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4		
REQUEST FOR QUALIFICATIONS	1 MO																										
RFP for A&E SERVICES	2 MO																										
SITE SELECTION PROCESS	3 MO																										
PROGRAMMING	2 MO																										
CONCEPTUAL DESIGN	3 MO																										
ESTIMATING	1 MO																										
SCHEMATIC DESIGN	4 MO																										
LEGISLATIVE PRESENTATIONS	4 MO																										
DESIGN DEVELOPMENT	5 MO																										
PERMITS - TOWN	4 MO																										
PERMITS - STATE	8 MO																										
PERMITS - FEDERAL	8 MO																										
CONSTRUCTION DOCUMENTS	6 MO																										
BD & AWARD	2 MO																										
CONSTRUCTION	13 MO																										
COMMISSIONING	2 MO																										
FACILITY SHakedown	2 MO																										
OCCUPANCY	1 MO																										
Funding Requests - Occurs Dec 2017 - \$26,600,000						\$400,000				\$2,600,000				\$16,500,000				\$7,700,000									
Funding Requests - Occurs Jan 2018 - \$25,000,000						\$400,000				\$2,600,000				\$16,500,000				\$7,700,000									

VERMONT AGRICULTURE and ENVIRONMENTAL LABORATORY
 PROPOSED PROJECT SCHEDULE
 MAY 28, 2015

