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Applicant Name: SOUTH STREET SEAPORT MUSEUM	Application Title: U90WM04 - Permanent Work
Period of Performance Start:	Period of Performance End: 04-30-2014

Subgrant Application - Entire Application

Application Title: [U90WM04 - Permanent Work](#)

Application Number:

Application Type: [Subgrant Application \(PW\)](#)

Preparer Information

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Project Description

Disaster Number: 4085
Pre-Application Number: PA-02-NY-4085-RPA-0953
Applicant ID: 061-U90WM-00
Applicant Name: SOUTH STREET SEAPORT MUSEUM
Subdivision:
Project Number: U90WM04

Standard Project Number/Title: 599 - Repair Damages to Public Buildings and Facilities
 Please Indicate the Project Type: Neither Alternate nor Improved
 Application Title: U90WM04 - Permanent Work
 Category: E.PUBLIC BUILDINGS
 Percentage Work Completed? 2.0 %
 As of Date: 12-16-2014

User	Date	Document Type	Description	Hard Copy File Reference	File Name	Action
JOHN AMOS	05-29-2014	Map	South St.Seaport Map of Site 1&2		Map with floor plans.pdf(1.49 Mb)	View
JOHN AMOS	05-29-2014	Map	FEMA FIRM		FEMA Firmette.pdf(282.35 kb)	View
CAITLIN RINGWOOD	12-27-2014	Time Extension	428 PAAP time extension request		SSSM 428 Extension Request_12.22.14.pdf(78.89 kb)	View
JOSEPH PAOLOZZI	01-21-2015		428 PAAP form		SSSM_FEMA 428_Form.pdf(37.38 kb)	View
JOSEPH PAOLOZZI	02-09-2015	Declaration Page	Affidavit for authority		Affidavit - Cote - Executed.pdf(62.55 kb)	View
JOSEPH PAOLOZZI	04-24-2015	Additional Information	Site 1 Mitigation SOW		Site_1_Mitigation_Scope_of_Work revised 4.24.15.docx(16.60 kb)	View
JOSEPH PAOLOZZI	04-24-2015	Additional Information	Site 6 Mitigation SOW		Site_6_Mitigation_Scope_of_Work revised 4.24.15.docx(14.78 kb)	View

Damage Facilities (Part 1 of 2)

Facility Number	Facility Name	Address	County	City	State	ZIP	Site Previously Damaged?	Action
1	Site 1:12 Fulton Street Museum Space	12 Fulton Street, 165 John St, 167-171 John St	New York	New York	NY	10038	No	
2	Site 2: Fulton Street Museum	14 Fulton Street	New York	New York	NY	10038	No	
3	Site 4: Bowne Shop	211 Water Street	New York	New York	NY	10038	No	
4	Site 5: Melville Gallery	213-215 Water Street	New York	New York	NY	10038	No	
5	Site 6: Museum Boats/Visitors Center/Restaurant	Pier 16	New York	New York	NY	10038	No	

User	Date	Document Type	Description	Hard Copy File Reference	File Name	Action
LAURA CLEMONS	06-28-2013	Lease Agreement	Lease Agreement		Museum Lease (full).pdf(3.95 Mb)	View
LAURA CLEMONS	06-28-2013	Lease Agreement	Lease Property Map		Museum Lease - Exhibit A-1-Project premises map.pdf(1.33 Mb)	View
LAURA CLEMONS	06-28-2013	Lease Agreement	Lease Amendment 1		Museum lease-First Amendment to Museum Lease - (# Legal 3173070).pdf(4.88 Mb)	View
LAURA CLEMONS	06-28-2013	Drawings/Sketches	Floor Plans site 1		Floor Plans_Site 1 ground fl and basement.pdf(720.91 kb)	View
JOSEPH PAOLOZZI	12-30-2014		Site 6 Images and descriptions of damages to fender piles and whales		Images and descriptions of damages to fender piles and whales_compressed.pdf(2.46 Mb)	View

Facility Name:	Site 1:12 Fulton Street Museum Space
Address 1:	12 Fulton Street, 165 John St, 167-171 John St
Address 2:	
County:	New York
City:	New York
State:	NY
ZIP:	10038
Was this site previously damaged?	No
Percentage Work Completed?	1.00 %
Location:	Site 1:12 Fulton Street, 165 John Street, 167-171 John Street New York, NY (Latitude: 40.7065414, Longitude: -74.0034847)Coordinates taken at center of site.
	<p>During the incident period October 27 through November 8, 2012, Hurricane Sandy caused rising flood waters and tidal surge from 10 to 12 feet, throughout lower Manhattan, New York. The storm surge caused 6 to 8 feet of flooding in the 2,935 square foot basement and 13,680 square foot ground floor of the Fulton Street space of the South Street Seaport Museum. The building that houses the Museum is owned by the City of New York. (see attachment "City Ownership_Non-Disturbance Agreement") Water infiltration damaged or destroyed the interiors, wiring, heating/dehumidification/climate control system, fire safety system, fire alarm system extension, power back-up system, 2 elevators, 2 escalators, and a wheel chair lift.</p> <p>Damaged Items include:</p> <p>Electrical Service 1200A 208Y/120V 3 phase service distribution panels in basement. Service End Box CT Metering Cabinet 1200A Service Rated Disconnect 600A Disconnect (Fluid Coolers & Pump Disconnects CT3; 1st Floor Chillers & Lighting) 400A Disconnect (A/C Units 3rd & 4th Floor)</p>

400A Disconnect (Panel PMH-6, 3rd and 4th Floor Lighting & Outlets)
 Subpanel - LP-B Sect#1 Panel
 Subpanel - LP-B Sect#2 Panel
 Subpanel - PMH-5
 Subpanel - PMH-4
 1200A Service Conductor: 4 Sets (4-350 MCM, 1-3/0 GND, 3-1/2" C)

Fire Alarm system in the basement and all attached devices, including:

1 Notifier Fire Alarm control Panel with purge capacity
 1 Fire Alarm remote annunciator
 2 Manual pull stations
 5 Horn Strobe units
 22 Area smoke detectors-basement, elevator, lobbies
 1 smoke beam detector
 9 control relays - for fan shutdown, escalator, pump run and fail
 2 water-flow switches
 7 tamper switches
 19 monitor modules - for water-flow, tamper switches, manuals and pump
 1 weatherproof bell
 1 central station connection
 1 fuse disconnect switch
 1 necessary pipe and wire for proper system installation

Fire alarm system extension:

1 Notifier Fire Alarm Control LCM Module
 1 Notifier LCM Module for Control Panel
 2 Fire Alarm Remote Annunciator
 49 Area Smoke Detectors – building floors and elevator lobbies
 4 Duct Smoke Detectors with Housings, Sampling Tubes and LED's (Base on 2 HVAC Units)
 4 Relay Modules for Duct Smoke Detectors
 3 Control Relays for Fan Shutdown (2 HVAC Units) and Elevator Recall
 18 Manual Pull Stations for all exit stairways and exit doors
 29 Horn Strobes Units
 12 Strobe Light Units
 5 FCPS Power Supply and Sync Panel

Damage Description and Dimensions:

Power Back-up System was damaged, it had serviced existing lighting with an AT Lite Battery Inverter consisting of three triple layered battery cabinets, an AT Lite Inverter cabinet, and a 200A service disconnect.

Back "Service" Elevator

Elevator equipment in existing machine room, elevator sump, shaftway & plunger. This is a 5000# capacity hydraulic elevator with 3 front openings and 5 rear openings, and standard cab interior, 6'-6" x 9'-0". Includes fuse disconnect (208V, 3Phase, 200A frame), one 20A 120V, 1 Phase circuit for the elevator lighting and one 20A 120V, 1 Phase circuit convenience power in the elevator pit (GFCI). A communication line to the elevator machine room was also damaged.

Front "Passenger" Elevator

Elevator equipment in existing machine room damaged, elevator, shaftway and plunger. Existing elevator capacity 2100# hydraulic elevator with 5 front openings, and standard cab interior, 4'-3" x 5'-8". Fused disconnect (208V, 3Phase, 200A frame) in the elevator machine room, one 20A 120V, 1 Phase circuit for the elevator lighting and one 20A 120V, 1 Phase circuit convenience power in the elevator pit (GFCI). The communication line to the elevator machine room was also damaged

Two(2) Escalators

2 Escalators and wiring were damaged. Current escalators are Thyssen Krupp "Velino" models type FT 823, 24" wide steps. The rise is 18'-7" at 30 degrees. The speed is 100 fpm. wiring and conduit was damaged, electrical connect consisting of electrical equipment, such as motors, limit switches, control boards were damaged. The elevator service was damaged, which was 60A of service, which is 3#6 conductors, 1#10, 1-1/4" Conduit.

Wheelchair Lift

The Wheelchair lift, its components, wiring, controls, and circuit were all damaged. The service was a 2#12AWG, 1#12GND, in a ¾" conduit. This was all submerged.

Heating/Dehumidification/Climate Control System damaged by flood-waters

Items include:

60 LF 2" high pressure steam piping
 Meter inlet control valves
 (3) Pneumatic Pressure Reducing valves/stations
 (1) pneumatic control compressor and air filter/dryer
 100 LF 4" Low Pressure distribution piping
 200 LF 2" Low Pressure distribution piping
 Steam to hot water heat exchanger 8" x 48"
 Isolation valves
 Thermometer
 Gauges
 (8) 2" gate zone
 (4) 4" shutoff valves
 6 LF steam drip leg traps and associated condensate piping
 Simplex steam condensate pump

The Applicant, South Street Seaport Museum, has requested the opportunity and responsibility to utilize the flexibility of Section 428 to aggregate the costs for repair/replacement of its facilities damaged by Hurricane Sandy into a fixed, capped grant utilizing the Public Assistance Alternate Procedures (PAAP).

Subject to the provisions of Section 428 of the Stafford Act, working in conjunction with the Applicant's staff, NYS OEM has developed the Damage Description and Dimensions (DDD) and eligible Scope of Work (SOW) for those facilities as shown in the attached Sites One (1), Two (2), Four (4), Five (5) and Six (6). Site Three did not have damage; therefore, Site Three is not captured in the PW.

The applicant has provided certified cost estimates from its licensed engineer for the performance of that work. South Street Seaport Museum is a tenant at five sites with the NYC Economic Development Corporation (EDC) as the landlord. The NYC EDC is one of the OMB City Agencies. NYC agencies utilize NYC specific estimating factors to fully capture the costs associated with eligible work. As a tenant to EDC, the Museum is required to perform the work under the same means, methods, and conditions as construction work performed by EDC. Therefore, the certified estimated submitted by the South Street Seaport Museum are appropriately validated with the OMB estimating factors in this PW. FEMA has reached agreement with the Applicant on the validated scope and cost. Accordingly, at the Applicant's request, the detailed damage descriptions (DDD), eligible scope of work (SOW) and validated cost estimates contained in this PW are hereby aggregated into this fixed, capped PAAP grant Project Worksheet (PW).

<<< Site 1 – Baseline Scope >>>

The following scope is eligible under Section 406 and establishes the baseline cost for this Site sheet of the Section 428 capped grant.

--- DAC ---

Direct Administrative Costs are estimated at 4 percent.

--- Work Completed ---

12 Fulton Street

A contractor was hired to replace the fire system in the basement, including all devices, pipes and wires leading to the control panel in lobby. Contractor replaced the fire alarm control panel and communicator, reconnected all remaining devices and alarm relays from subsequent floors, reprogrammed them to the central station and tested the system.

Includes:

- 1 Notifier Fire Alarm control Panel with purge capacity
- 1 Fire Alarm remote annunciator
- 2 Manual pull stations
- 5 Horn Strobe units
- 22 Area smoke detectors-basement, elevator, lobbies
- 1 smoke beam detector
- 9 control relays - for fan shutdown, escalator, pump run and fail
- 2 water-flow switches
- 7 tamper switches
- 19 monitor modules - for water-flow, tamper switches, manuals and pump
- 1 weatherproof bell
- 1 central station connection
- 1 fuse disconnect switch
- 1 necessary pipe and wire for proper system installation
- 1 test for proper operation
- 1 FDNY inspection and test

Total: \$69,750.00

165 John Street-Museum Upper Floors & 167-171 John Street (Low Building) Fire Alarm System

Applicant hired contractor to install new Fire alarm system extension at the above address. Installation includes:

- 1 Notifier Fire Alarm Control LCM Module
- 1 Notifier LCM Module for Control Panel
- 2 Fire Alarm Remote Annunciator
- 49 Area Smoke Detectors – building floors and elevator lobbies
- 4 Duct Smoke Detectors with Housings, Sampling Tubes and LED's (Base on 2 HVAC Units)
- 4 Relay Modules for Duct Smoke Detectors
- 3 Control Relays for Fan Shutdown (2 HVAC Units) and Elevator Recall
- 18 Manual Pull Stations for all exit stairways and exit doors
- 29 Horn Strobes Units
- 12 Strobe Light Units
- 5 FCPS Power Supply and Sync Panel
- 1 Necessary pipe and wire for risers and above equipment system installation
- 1 Test for proper operation

Total: \$109,875.00

Total Work Completed: \$179,625.00

--- Work to be Completed ---

Fulton Street location

Remove damaged electrical in basement:

Remove (1) 2000 AMP Main Service Switch Bussed to MDP(As demolition for this item is not available on RS Means 50% of installation labor is used)

Remove (1) Main Distribution Panel MDP-1 Consisting of (1) 1200 AMP

Remove (2) 400 AMP

Remove (5) 225 AMP

Remove (1) 100 AMP

Remove (1) 2000 AMP CT Cabinet Enclosure - Bussed to Main Switch(As demolition for this item is not available on RS Means 50% of installation labor is used)

Remove (1) 10 Point NYC Meter Pan(exact item not available on RS Means, therefore nearest item used)

Remove(5) Sets of 500 MCM with Limiters approx. 1000'

Remove (3) Sets of 500 MCM approx. 900'

Remove (1) 225 AMP Panel 3 Phase Panel Designation PM-H3(exact item not available on RS Means, therefore nearest item used)

Remove (1) 225 AMP Panel 3 Phase Panel Designation PM-H4

Remove (30) Breakers in Panels submerged under water remove (exact item not available on RS Means, therefore nearest item used)

Remove (20) Breakers in Panels submerged under water remove (exact item not available on RS Means, therefore nearest item used)

Remove (2) 2 Pole 20 AMP THQL Circuit Breakers PM-H3 & PM-H4 (2) Breakers in Panels submerged under water remove(exact item not available on RS Means, therefore nearest item used)

Remove Wire (1) Sets of 250 MCM approx. 240'

Remove Wire,(1) Sets of 250 MCM approx. 200'

Remove 100 AMP 3 Phase (2) Section Panel Designation LP-B Sec #1 and Sec # 2 AQ Type

Remove Wire (1) Sets of 2 THHN approx. 200'

Remove Wire (1) Sets of 2 THHN approx. 80'

Remove (1) Time Clock wall mounted Basement Underwater Remove(As demolition for this item is not available on RS Means 50% of installation labor is used)

Remove (6) Sets of 500 MCM approx. 600' THHN

Remove (8) Sets of 500 MCM approx. 800' THHN

Remove (5) Set of 250 MCM Feeders from Junction box for PMH-1 Feed to MDP-1. Approx. 500' THHN

Remove (5) Set of 250 MCM Feeders from Junction box for PMH-1 Feed to MDP-1. Approx. 500' THHN

Remove (5) Set of 250 MCM Feeders from Junction box for PMH-1 Feed to MDP-1. Approx. 500' THHN

Replace electrical service in basement:

2000 AMP Main Service Switch Bussed to MDP(2000 AMP Main Service Switch Bussed to MDP

Main Distribution Panel MDP-1 Consisting of (1) 1200 AMP(Main Distribution Panel MDP-1 Consisting of (1) 1200 AMP)

Main Distribution Panel MDP-1 Consisting of (2) 400 AMP(circuit breaker, 3 pole, 600 Volt, enclosed)

Main Distribution Panel (5) MDP-1 Consisting of (5) 225 AMP(circuit breaker, 3 pole,225 amp 600 Volt, enclosed)

Main Distribution Panel MDP-1 Consisting of (1) 100 AMP(circuit breaker, 3 pole, 100 amp, 600 Volt, enclosed)

2000 AMP CT Cabinet Enclosure - Bussed to Main Switch(cabinet double door, 60" H x 60" W x 10" D NEMA 12, floor mounted)

10 Point NYC Meter Pan(exact item not available in RS Means so nearest item selected)

(5) Sets of 500 MCM with Limiters approx. 1000'

1000 LF 1-1/4" Conduit

Scope of Work:

(5) Sets of 500 MCM with Limiters approx. 1000'
 900 LF 1-1/4" Conduit
 225 AMP Panel 3 Phase Panel Designation PM-H3(Panel Board 3 phase, 4 wire, main circuit breaker 120/208 V, 225 Amp 42 Circuits)
 NQOD Including a 1 pole plug-in breaker) PM-H3
 225 AMP Panel 3 Phase Panel Designation PM-H4(Panel Board 3 phase, 4 wire, main circuit breaker 120/208 V, 225 Amp 42 Circuits)
 NQOD Including a 1 pole plug-in breaker) PM-H4
 (30) Breakers in Panels submerged under water remove and replace(panel board 3 phase, 4 wire, main lugs 120/208 V, 100 amp 30 Circuits)
 NQOD including a 1 pole plug-in breaker)
 (20) Breakers in Panels submerged under water remove and replace(panel boards, 1 phase, 3 wire, main lugs, 120/208V 100 AMP, 20
 Circuits, NQOD Including 1 pole)
 (1) Pole 20 AMP THQL Circuit Breakers
 (2.4) Sets of 250 MCM approx. 240'
 (240) LF 1" Conduit
 (200) LF 1" Conduit
 (2) CLF (1) Sets of 250 MCM approx. 200'
 (200) LF 1" Conduit
 (27) CLF Branch Conduit and Wiring in Basement underwater. Cut back (6) conduits at 1st floor, pull wires back 1st floor clean conduit.
 Extend (25) existing branch circuits with new # 12 THHN wiring from 1st floor to PM-H3. Apox 100' for each branch circuit
 (2700) LF 1/2" Conduit
 100 AMP 3 Phase (2) Section Panel Designation LP-B Sec #1 and Sec # 2 AQ Type(panel board, 3 phase, 4 wire, main circuit breaker,
 277/480 v, 100 AMP, 30 circuit, NEHB, including 20 A1 pole plug-in breaker)
 2 CLF Sets of 2 THHN approx. 200'
 200 LF 1/2" Conduit
 (.8) Sets of 2 THHN approx. 200'
 (80)LF 1/2" Conduit
 (40) CLF Conduit and Wiring in Basement underwater. Cut back (15) conduits at 1st floor, pull wires back 1st floor clean conduit. Extend (40)
 exiting lighting branch circuits with new # 12 THHN wiring from 1st floor to LP-B Section 1 and Sec 2. Apox 100' for each branch circuit
 (4000)LF 1/2" Conduit
 120V Time Clock
 (6) Sets of 500 MCM approx. 600' THHN
 600 LF 1-1/4" Conduit
 (8) Sets of 500 MCM approx. 800' THHN
 800 LF 1-1/4" Conduit
 (5) Sets of 250 MCM approx. 500
 500 LF 1" Conduit
 (5) Sets of 250 MCM approx. 500
 500 LF 1" Conduit
 (5) Sets of 250 MCM approx. 500
 500 LF 1" Conduit

Remove damaged emergency backup power:
 Remove AT Lite Battery Inverter 125 AMP ups with bypass (As demolition for this item is not available on RS Means 50% of installation labor
 is used)
 Remove (4) triple layered battery cabinets, 10 cell ups battery array (As demolition for this item is not available on RS Means 50% of
 installation labor is used)
 Remove 200A service disconnect. (As demolition for this item is not available on RS Means 50% of installation labor is used) Install
 Emergency backup power system
 AT Lite Battery Inverter 125 AMP ups with bypass
 (4) AT Lite Battery Inverter 125 AMP ups with bypass
 200A service disconnect
 EM UPS Line and LP-EM panel load side wiring

Passenger & freight elevator
 Restore existing elevator to service, based on design: 5000# capacity hydraulic elevator with 3 front openings and 5 rear openings, and
 standard cab interior, 6'-6" x 9'-0". (City Elevator provided a quote)
 Pressure wash 266 SF, Pressure wash(cleaning masonry, heavy restoration, light soil, by chemical, high pressure wash
 Fused disconnect (208V, 3Phase, 200A frame) in the elevator machine room
 20A 120V, 1 Phase circuit for the elevator lighting
 20A 120V, 1 Phase circuit convenience power in the elevator pit (GFCI)
 (1) CLF communication line to the elevator machine room

Existing passenger elevator
 Restore existing elevator to service, based on design: 2100# capacity hydraulic elevator with 5 front openings, and standard cab interior, 4'-3"
 x 5'-8". (City Elevator provided a quote)
 120 SF Pressure wash, Pressure wash(cleaning masonry, heavy restoration, light soil, by chemical, high pressure wash
 fused disconnect (208V, 3Phase, 200A frame) in the elevator machine room
 20A 120V, 1 Phase circuit for the elevator lighting
 20A 120V, 1 Phase circuit convenience power in the elevator pit (GFCI)
 (1) CLF communication line to the elevator machine room

2 Existing escalators
 Replace and remove all damaged/outdated escalator equipment per manufacturer's recommendations. Current escalators are Thyssen
 Krupp "Velino" models type FT 823, 24" wide steps. The rise is 18'-7" at 30 degrees. The speed is 100 fpm.(We have received a quote from a
 contractor to replace in kind)

Wheelchair lift:
 Provide replacement equipment for minor damaged parts of lift
 Pressure wash 1000 SF (cleaning masonry, heavy restoration, light soil, by chemical, high pressure wash
 1000 SF Touch up, pointing masonry, cut and re-point block, hard mortar, running bond
 Repaint shaft wall, 1000 SF
 Rewire and connect replacement lift.
 20A, 120VAC single phase circuit
 (3) 2#12AWG, assumed 300'
 (1.5)CLF 1#12GND
 (15) LF 3/4" conduit

Fulton Street location
 Fulton Street Mechanical:
 Remove 60 LF 2" high pressure steam piping
 Remove meter inlet control valves (As demolition for this item is not available on RS Means 50% of installation labor is used)
 Remove (3) Pneumatic Pressure Reducing valves/stations
 Remove (1) pneumatic control compressor and air filter/dryer
 Remove 100 LF 4" Low Pressure distribution piping (As demolition for this item is not available on RS Means 50% of installation labor is
 used)
 Remove 200 LF 2" Low Pressure distribution piping
 Remove steam to hot water heat exchanger 8" x 48" (As demolition for this item is not available on RS Means 50% of installation labor is
 used)
 Remove isolation valves (As demolition for this item is not available on RS Means 50% of installation labor is used)
 Remove thermometer (As demolition for this item is not available on RS Means 50% of installation labor is used)
 Remove gauges (As demolition for this item is not available on RS Means 50% of installation labor is used)
 Remove (8) 2" gate zone

Remove (4) 4" shutoff valves (As demolition for this item is not available on RS Means 50% of installation labor is used)
 Remove 6 LF steam drip leg traps and associated condensate piping (As demolition for this item is not available on RS Means 50% of installation labor is used)
 Remove simplex steam condensate pump (As demolition for this item is not available on RS Means 50% of installation labor is used)

Install Mechanical
 PRV SYSTEM (Quote provided by King Freeze)
 CONDENSATE COOLER(Quote provided by King Freeze)
 AIR COMPRESSOR (Quote provided by King Freeze)
 STEAM CONDENSATE PUMP (Quote provided by King Freeze)
 PIPING (Quote provided by King Freeze)

INSULATION (Quote provided by King Freeze)
 DELIVERY/RIGGING (Quote provided by King Freeze)
 CONTROLS AND CONTROL WIRING (Quote provided by King Freeze)
 X-RAY WELDS (Quote provided by King Freeze)
 SHOP DWG FOR CON ED (Quote provided by King Freeze)
 DEMO (Quote provided by King Freeze)
 START UP AND TEST THE SYSTEM (Quote provided by King Freeze)
 Power Wiring (Quote provided by King Freeze)

Work to be completed total: \$3,911,702.40

Total Site 1 \$4,091,327.40

<<< Alternate Scope under Section 428 >>>

The Applicant has not provided alternate scope.

<<< PROJECT NOTES >>>

RECORD RETENTION: Complete records and cost documents for all approved work must be maintained for at least 3 years from the date the last project was completed or from the date final payment was received, whichever is later. Applicant is responsible for retention of all documentation associated with this project.

SUPPORTING DOCUMENTATION: 20% or more of the documentation to support this project has been reviewed and verified by the Applicant and Project Specialist for eligibility and correctness.

PROCUREMENT: The applicant is required to adhere to State Government Procurement rules and regulations and maintain adequate records to support the basis for all purchasing of goods and materials and contracting services for projects approved under the Public Assistance program, as stated in 44 CFR 13.36. The applicant has advised they have/will follow their normal procurement procedures.

PERMITS: The PA Project Specialist has advised the Applicant that it is their responsibility to obtain all applicable local, state and federal permits prior to any construction or debris disposal activity referenced on this project. Applicant has also been advised that the lack of obtaining and maintaining these documents may jeopardize funding.

INSURANCE: The applicant is aware that all projects are subject to an insurance review as stated in 44 C.F.R. Sections 206.252 and 206.253. If applicable an insurance determination will be made either as anticipated proceeds or actual proceeds in accordance with the applicant's insurance policy that may affect the total amount of the project.

DIRECT ADMINISTRATIVE COSTS: The subgrantee requested Direct Administrative Costs (DAC) that are directly chargeable to this specific project. The costs captured here have been estimated and actuals will be presented at close-out. Associated eligible work is related administration of the PA project only and in accordance with 44 CFR 13.22. These costs are treated consistently and uniformly as direct costs in all federal awards and other subgrantee activities and are not included in any approved indirect cost rates.

<<< General Grant Management Requirements >>>

- Applicant is responsible to maintain records that allow FEMA compliance with the reporting and evaluation criterion of the Sandy Recovery Act with respect to hazard mitigation activities in a parallel manner to FEMA approvals
 - Applicant shall document as-planned and as-built drawings documenting hazard mitigation scope of work
 - Applicant shall document actual costs for hazard mitigation scope of work
- Applicant must complete work within established regulatory time frames and request time extensions as appropriate.
- Applicant must submit quarterly progress reports to the State for large projects in which the work is not completed and financially reconciled.
- Applicant will be reimbursed through the State in accordance with Federal and State requirements.
- Subgrants under alternative procedures are also subject to Strategic Funds Management (SFM), as appropriate, as outlined in guidance for the SFM initiative.
- Applicants must adhere to Federal procurement requirements, as well as other requirements of 44 CFR Part 13, 2 CFR Part 225, and the appropriate Office of Management and Budget circulars.
- The Applicant will comply with EHP requirements, notify FEMA of any work that requires EHP compliance reviews, and provide necessary documentation to conduct EHP reviews. The Grantee shall ensure the Applicant complies with EHP requirements.
- Applicant must not deposit grant funds in an interest-bearing account. If that occurs, the Applicant must remit to FEMA any interest earned.
- Applicant will submit to the Grantee a final report of project costs. This report will not be used for reconciliation of the fixed grant to actual costs, as would normally be required in the standard program. The final report should include the following components: Actual work completed with fixed-grant funds
 - Mitigation measures achieved, if applicable
 - Compliance with EHP conditions
 - Total actual costs to complete the project
 - Compliance with Federal procurement procedures
 - Actual insurance proceeds received by Applicant

Hazard Mitigation Proposal	
* Is effective mitigation feasible on this site?	Yes
If you answered Yes to the above question, the next question is required	
Will mitigation be performed on this site?	Yes
If you answered Yes to the above question, the next question is required	
Do you wish to attach a Hazard Mitigation Proposal?	Yes
If you answered Yes to the above question, the next two questions are required	
Please provide the Scope of Work for the estimate: <small>(maximum 4000 characters)</small>	Too large see attached word document.

Would you like to add the Hazard Mitigation Proposal as a cost line item to the project cost?		Yes
GIS Coordinates		
Project Location	Latitude	Longitude
Misc. Space	40.7065414	-74.003484

Facility Name:	Site 2: Fulton Street Museum
Address 1:	14 Fulton Street
Address 2:	
County:	New York
City:	New York
State:	NY
ZIP:	10038
Was this site previously damaged?	No
Percentage Work Completed?	1.00 %

Location:	Site 2: 14 Fulton St, New York, NY 10038 (Latitude: 40.7065978, Longitude: -74.0035324)Coordinates taken at center of site.
Damage Description and Dimensions:	<p>During the incident period October 27 through November 8, 2012, Hurricane Sandy caused rising flood waters and tidal surge from 10 to 12 feet, throughout lower Manhattan, New York. The storm surge caused 6 to 8 feet of flooding in the 775 square foot ground floor of the Fulton Street space of the South Street Seaport Museum Store. The building that houses the Museum is owned by the City of New York. (see attachment "City Ownership_Non-Disturbance Agreement"). Water infiltration damaged or destroyed the electrical wiring.</p> <p>Electrical Items (overhead and wall outlets: (1) 100 2 Pole 24Ckt Panel (2) 2 Pole 40 AMP Breaker (12) 15 AMP Breakers (1) 30 AMP Non Fused Disconnect (1) Wire and Devices</p>

Scope of Work:	<p><<< Baseline Scope >>></p> <p>The following scope is eligible under Section 406 and establishes the baseline cost for this Site sheet of the Section 428 capped grant.</p> <p>Work Completed</p> <p>Applicant hired contractor to complete following repairs to electrical: Remove and Replace (1) 100 AMP 24 Circuit Panel Provision and Installation of (1) 2 Pole 40 AMP Breaker Provision and Installation of (12) 15 AMP Single Pole Breakers Remove and Replace (1) 30 AMP non fused disconnect Remove and Install new branch circuit wiring for (18) Points/Devices Provision and Installation of (18) New Devices with Covers</p> <p>Total contractor cost \$9,9620.32</p>
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Hazard Mitigation Proposal	
* Is effective mitigation feasible on this site?	No
If you answered Yes to the above question, the next question is required	
Will mitigation be performed on this site?	Unsure
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: <small>(maximum 4000 characters)</small>	
Would you like to add the Hazard Mitigation Proposal as a cost line item to the project cost?	No

GIS Coordinates		
Project Location	Latitude	Longitude
Fulton Street Museum	40.7065978	-74.003532

Facility Name:	Site 4: Bowne Shop
Address 1:	211 Water Street
Address 2:	
County:	New York
City:	New York
State:	NY
ZIP:	10038
Was this site previously damaged?	No
Percentage Work Completed?	0.00 %
Location:	Site 4: 211 Water Street, New York, NY 10038 (Latitude: 40.7074065, Longitude: -74.0035407)Coordinates taken at center of site.

Damage Description and Dimensions:	<p>During the incident period October 27 through November 8, 2012, Hurricane Sandy caused rising flood waters and tidal surge from 10 to 12 feet, throughout lower Manhattan, New York. The storm surge caused 6 to 8 feet of flooding in the 1,150 square foot ground floor and basement of the Bowne Shop space of the South Street Seaport Museum. The building that houses the Museum is owned by the City of New York. (see attachment "City Ownership_Non-Disturbance Agreement")Bowne Shop is a recreation of an 1870s style print shop holds the title of NYC's most venerable letterpress outpost. Water infiltration damaged or destroyed the AC unit,located in the basement, its electrical components, corroded BX cable, EMT conduit. The water cooled horizontal heat pump with a nominal capacity of 5 tons was damaged, which included a duct mounted electric heater with a nominal output of 17,000 btuh (5 kW). Interior of all duct-work in cellar, approximately 90 LF was contaminated.</p>	
Scope of Work:	<p style="text-align: center;"><<< Baseline Scope >>></p> <p>The following scope is eligible under Section 406 and establishes the baseline cost for this Site sheet of the Section 428 capped grant.</p> <p>Work to be Completed</p> <p>Contractor estimate to: Remove damaged electrical systems Remove water cooled horizontal heat pump with a nominal capacity of 5 tons Remove duct mounted electric heater Remove MC Cables, 500 LF Remove Receptacles and boxes(28) Clean interior of all ductwork in cellar, 360 LF Install water cooled horizontal heat pump with a nominal capacity of 5 tons Install Duct mounted electric heater with a nominal output of 17,000 btuh (5 kW)</p> <p>Total cost: \$173,853.44</p>	
Hazard Mitigation Proposal		
* Is effective mitigation feasible on this site? Yes		
If you answered Yes to the above question, the next question is required		
Will mitigation be performed on this site? Yes		
If you answered Yes to the above question, the next question is required		
Do you wish to attach a Hazard Mitigation Proposal? Yes		
If you answered Yes to the above question, the next two questions are required		
Please provide the Scope of Work for the estimate: <small>(maximum 4000 characters)</small>	<p>Site 4: 211 Water Street, New York, NY 10038 (Latitude: 40.7074065, Longitude: -74.0035407), Bowne Shop HVAC Mitigation</p> <p>The storm surge caused 6 to 8 feet of flooding in the 1,150 square foot ground floor and basement of the Bowne Shop space of the South Street Seaport Museum. Water infiltration damaged or destroyed the AC unit in the basement, electrical components, armored cable, EMT conduit, water-cooled heat pump, and 90 lf of ductwork. Per the PW no repairs or replacement have been made. Proposed mitigation: In lieu of replacing-in-kind the separate air conditioning unit, water cooled horizontal heat pump, duct-mounted electric heater, and associated electrical components, furnish and install a new 6-ton capacity ductless split system heat pump to be located above the BFE. Also provide two evaporator units, with refrigerant piping between the roof-mounted condenser and the evaporator units. Fabricate roof curb for condenser, and sheet metal covers for the refrigerant piping. Remove all associated electrical components, conduit, and cable. Furnish and install (F/I) new conduit and wire from the 1st floor electrical closet to the condenser on the roof. F / I Install control wiring between the condenser and evaporator unit. F / I safety disconnect switches and other devices for code-compliance. As per CEF's, hard costs are \$42,397 for in-kind and \$8,125 to mitigate. Therefore the hard-cost mitigation is 23.7% of the in-kind repair / replacement.</p> <p>New 6-ton capacity ductless split system heat pump \$42,397.04 In-Kind Equipment (\$34,271.69) Additional Cost for Mitigation Measures \$8,125.35</p>	
Would you like to add the Hazard Mitigation Proposal as a cost line item to the project cost? Yes		
GIS Coordinates		
Project Location	Latitude	Longitude
Bowne Shop	40.7074065	-74.00354
Facility Name:	Site 5: Melville Gallery	
Address 1:	213-215 Water Street	
Address 2:		
County:	New York	
City:	New York	
State:	NY	
ZIP:	10038	
Was this site previously damaged?	No	
Percentage Work Completed?	0.00 %	
Location:	Site 5: 213-215 Water Street, New York, NY 10038 (Latitude: 40.7074410, Longitude: -74.00333792)Coordinates taken at center of site.	
Damage Description and Dimensions:	<p>During the incident period October 27 through November 8, 2012, Hurricane Sandy caused rising flood waters and tidal surge from 10 to 12 feet, throughout lower Manhattan, New York. The storm surge caused 6 to 8 feet of flooding in the 2,506 square foot basement and 2,506 square foot ground floor of the Melville Gallery space of the South Street Seaport Museum. The building that houses the Museum is owned by the City of New York. (see attachment "City Ownership_NonDisturbance Agreement"). Water infiltration destroyed the entire 2,475 SF historic flooring and hardwood wall base.</p>	

Scope of Work:	<p><<< Baseline Scope >>></p> <p>The following scope is eligible under Section 406 and establishes the baseline cost for this Site sheet of the Section 428 capped grant.</p> <p>Work to be Completed:</p> <p>Item 5.1</p> <p>Estimate given to provide replacement for historic flooring: Install 2,475 SF of reclaimed hardwood flooring, and 2,475 of 3/4" plywood underlayment \$260,780.16</p>
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Hazard Mitigation Proposal	
Is effective mitigation feasible on this site?	Yes
If you answered Yes to the above question, the next question is required	
Will mitigation be performed on this site?	Yes
If you answered Yes to the above question, the next question is required	
Do you wish to attach a Hazard Mitigation Proposal?	Yes
If you answered Yes to the above question, the next two questions are required	

Please provide the Scope of Work for the estimate: <small>(maximum 4000 characters)</small>	<p>Site 5: 213-215 Water Street, New York, NY 10038 (Latitude: 40.7074410, Longitude: -74.00333792) Melville Gallery Floor Mitigation</p> <p>The storm surge caused 6 to 8 feet of flooding in the 2,506 square foot basement and 2,506 square foot ground floor of the Melville Gallery space of the South Street Seaport Museum. Water infiltration destroyed the entire historic flooring and hardwood wall base. Per the PW no repairs or replacement have been made. Proposed mitigation: In lieu of installing reclaimed hardwood flooring and 3/4" plywood underlayment, furnish and install replacement for historic flooring that is resistant to flooding, i.e. as per CEF quantities: 2,200 SF of sub-flooring and 1/4" rubber sheet flooring. Provided welded seams. Furnish and Install integral cove base. We note that the in-kind replacement is based on a detailed written quotation, whereas the mitigation measures are based on RS Means Costworks codes. As per CEF's, hard costs are \$108,875 for in-kind and \$23,535 to mitigate. Therefore the hard-cost mitigation is 21.6 % of the in-kind repair / replacement.</p> <p>New Rubber Sheet Flooring \$132,409.72 In-Kind Hardwood Flooring (\$107,875.00) Additional Cost for Mitigation Measures \$23,534.72</p>
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Would you like to add the Hazard Mitigation Proposal as a cost line item to the project cost?	Yes
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GIS Coordinates		
Project Location	Latitude	Longitude
Melville Gallery	40.707441	-74.00338

Facility Name:	Site 6: Museum Boats/Visitors Center/Restaurant
Address 1:	Pier 16
Address 2:	
County:	New York
City:	New York
State:	NY
ZIP:	10038
Was this site previously damaged?	No
Percentage Work Completed?	0.00 %

Location:	Site 6: Pier 16, New York, NY 10038 (Latitude: 40.705096, Longitude: -74.002737)Coordinates taken at center of site.
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Damage Description and Dimensions:	<p>During the incident period October 27 through November 8, 2012, Hurricane Sandy caused rising flood waters, high winds and a tidal surge from 10 to 12 feet, throughout lower Manhattan, New York. The storm surges of over 10' washed over the 57,860 square feet City owned Pier (see attachment "City Ownership_Non-Disturbance Agreement") The SSSM is responsible for 3 structures located on the Pier.</p> <ol style="list-style-type: none"> 1. Ticket Booth/ Visitors' Center 2. Skippers Café 3. The Maritime Craft Center) and the 3 ships (Ambrose,Peking, and Wavetree) that are docked there along with peripheral items attached to the Pier necessary for ship docking. <p>The Ticket Booth/Visitors' Center are 2 connected small spaces in 1 building, measuring 25'x12'x8 and 8'x8'x8'. The Ticket booth/Visitors' center 3 ton ductless split system condensing unit was damaged, along with: an evaporator, 40A 3 Phase 208V service, 1"Conduit, 60A frame fused disconnect, 3/4" Conduit, and casework.</p> <p>Skippers Café was a 16'x20' metal structure with a full gas kitchen and seating for 100.</p> <p>The Maritime Craft Center was a ~16'x20'x8' structure. The Maritime Craft Center was washed away by Sandy. Water infiltration damaged or destroyed the buildings' interiors, electrical wiring. Corrosive seawater damaged the gangways(3), gangway cars(3), and three(3) gangway platforms.</p> <p>Pier 16 Fender piles, Walers and related hardware was deamaged beyond repair, or destroyed.</p> <p>Damages include: 1150 LF of 12x12 Walers 10 Cleats, 60 1"dia x 36" galv steel round head bolts 10 Bollard, 160 1"dia x 36" galv steel round head bolts 27 Fender piles 50 FT in length, equaling 1150 LF 1150 LF of 10x10 Timber chocks</p>
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	<p><<< Baseline Scope >>></p> <p>The following scope is eligible under Section 406 and establishes the baseline cost for this Site sheet of the Section 428 capped grant.</p>
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<p>Scope of Work:</p>	<p>The applicant has estimates to repair/replace the various items on and around the Pier.</p> <p>Ticket Booth/Visitors' Center: Provide 3 ton ductless split system ac unit and duct work, condensing unit shall be on roof of kiosk and evaporator will be located inside. Installation of a 40A 3 Phase 208V service, via 4#8 AWG, 1#10 GND, in a 1" C to a 60A frame fused disconnect for the 3 ton split system assume a 50' section of cable/conduit. Install 4#12AWG control cables in a 3/4" conduit between the roof level condenser and the visitor center floor evaporator unit approximately 25' away. Repair casework. Repaint 320 s.f. structure, exterior & interior. Remove and replace 848 SF of drywall Remove and replace receptacles and boxes(6) Remove and replace conduit, 60LF.</p> <p>Skipper's Café The applicant has estimates to provide 16' x 20' modular replacement structure for Skippers Café. 4 glaze openings, 3' x 6' each. 2 doors at 3' x 7'. Lighting, HVAC, power. Canvas awning surround 6' wide with structure: 576 s.f. Install exhaust system Replacement kitchen equipment (lump sum allowance). Provide replacement utility connections. Install a replacement 200A 3Phase 208V service panel and required receptacles for the building's electrical requirements. It is assumed that at least a 1" domestic water supply line was installed for use in this space that was fed from the dock house. This line is to be replaced and backflow preventer installed if required. Also a 4" waste line serving prep sinks and a local grease trap was also assumed and should be replaced. A kitchen exhaust hood and fan systems will also be included. Duct shall be 10 gauge welded type greaseduct. The existing structure was previously provided with a natural gas connection for cooking purposes. This connection is to be restored and it is assumed the piping to the space will remain as well as existing meter, shutoff valves etc. Final connections to new appliances only.</p> <p>The Maritime Craft Center: The applicant has estimates to provide 16' x 20' modular replacement structure for Maritime Craft Center. 5 glazed openings, 5' x 6' each. 6 porthole windows, 18" dia. 2 doors at 3' x 7'. Lighting HVAC Replacement casework. Provide replacement utility connections for power. Install a replacement 200A 3Phase 208V service panel and required receptacles for the building's electrical requirements.</p> <p>*Location 6: Ships and Associated Items - General* See Dewberry document for Pier components and terminology. According to record drawings, Pier 16 is approximately 500 ft long with pile bents every 10 feet on center. The largest museum vessels permanently moored are the Ambrose and the Peking. Ambrose is listed as having a length of 135 ft, and Peking is listed as having a deck length of 320 ft. Scaled from record drawings, the distance from top of fender pile to mud line ranges from approximately 15 ft at bent No. 1 to 25 ft at bent No. 50. This translates to an average pile height above mud line of 20 ft, and assuming a reasonable pile embedment depth of 30 ft, results in an average assumed fender pile length of 50 ft. Bollards and cleats on pier 16 are cast. The typical failure modes for bollards this size are to part mooring lines or rip from their mountings, even when pulled out of plane. Cast bollards and cleats usually will not yield. There is no information produced that reflects the condition of the bollards and cleats on Pier 16 is such that they require replacement. Their mounting hardware, however, is all suspect and should be replaced. Timber chocks "whales" on both sides of damaged fender piles should be replaced. There are individual hung rubber type fenders at hard points along the pier. They are located above the waterline to absorb impact between the hull and the pier, dissipating vessel loads so that the pier is somewhat protected. Without access and a thorough inspection, the condition of the fender/structural pile system is based on information provided through previous inspections as follows: 1. All recommendations made without the benefit of diver inspection reports or in-depth site inspections of vessels and moorings. 2. All work marine premium cost. 3. All timbers treated for marine environment. 4. All work requires design documents and permits with NYC, and may involve other state and federal agencies. 5. Mobilize and demobilize pile driving equipment. 6. Repair in kind takes into consideration marine borer caused damage. This wood eating marine parasite has become an increasing problem for NYC as the water quality around New York Harbor has improved. Because of this, the repair in kind costs are for materials that the marine borer are not able to damage as this has become standard harbor practice.</p> <p>Whales (timber chocks) and Fender Piles Repair in Kind Extract (27) piles 12" diameter 50' original length, damaged or broken below waterline. Piles may be concrete encased at the mudline. The concrete may engage adjacent structural piles on the pier. Install (27) timber piles 12" diameter, 50' long, average 30' embedment. Timber chocks "whales" (1150 linear ft) 10" x 10" plus hardware: Replace (200) 1" dia x 30"+/- long galvanized steel head bolts total. Timber Wale "aprons" (1150 linear ft) 12" x 12", replace, plus hardware: Replace (600) 3/4" diameter galvanized through bolts; increase level of difficulty to match location and pattern to existing holes in concrete pier. Wrap all new and existing fender piles (30 north side, 50 south side) to deter marine borer infestation.</p> <p>Bollards and Cleats Repair in Kind Replace cleats and replace hardware on all mooring cleats and bollards: Bollards (10) each to be retained but replace (16) 1" dia x 36"+/- long galvanized steel round head bolts per bollard; increase level of difficulty to match location and pattern to existing holes in concrete pier. Cleat (10) replace, each cleat with (6) 1" dia x 36"+/- long galvanized steel round head bolts per cleat.</p> <p>Ropes and Gangways. Replace in kind two(2) heavy duty truss style aluminum gangways, 40"x45'-0", and one(1) beam style aluminum gangway, 26"x30'-0, three (3) gangway cars, and three(3) gangway platforms, 12'x6'</p> <p>Total Work to be completed: \$4,346,336.00</p>
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Hazard Mitigation Proposal	
Is effective mitigation feasible on this site?	Yes
If you answered Yes to the above question, the next question is required	
Will mitigation be performed on this site?	Yes
If you answered Yes to the above question, the next question is required	
Do you wish to attach a Hazard Mitigation Proposal?	Yes
If you answered Yes to the above question, the next two questions are required	
Please provide the Scope of Work for the estimate: <small>(maximum 4000 characters)</small>	**See Site 6 Mitigation doc in attachments** File was too large
Would you like to add the Hazard Mitigation Proposal as a cost line item to the project cost?	Yes
GIS Coordinates	
Project Location	Longitude

Museum Boats/Visitors Center/Restaurant	40.705096	-74.002737
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PNP Questions

Name of damaged facility:	South Street Seaport Museum: Permanent Work
Critical facility:	No Part of Facility is Critical
Facility Street Address:	12 Fulton Street
City:	New York
State:	NY
ZIP:	10038
Was the facility in use during disaster?	Yes
Was the facility damaged due to disaster?	Yes
Are repairs the legal responsibility of the PNP?	Yes
Please explain the primary purpose of damaged facility:	Founded on May 22, 1967. 3 floors of galleries showcasing 16 historic and contemporary installations interweaving the city, the sea, and the Seaport neighborhood. Nine historic vessels, two letterpress print shops, and one ship carver's shop, offering educational programs, lectures, symposia and tours.
Please explain the type of assistance requested?	Cat E Permanent Work to repair and replace damages incurred from Hurricane Sandy.
Who may use the facility?	The public
Contact First Name:	Jonathan
Contact Middle Initial:	
Contact Last Name:	Boulware
Contact Phone:	212-748-8772
Is there a fee charged for use of the facility:	Yes
If Yes, what is the cost?	\$ 10.00
Do you own the facility?	No
If Yes, do you have proof of ownership attached?	
Do you lease the facility?	Yes
If Yes, do you have the lease agreement attached?	Yes
Do you rent the facility?	No
If Yes, do you have the rental agreement attached?	
Is the facility insured?	Yes
If Yes, is the insurance policy attached?	Yes

Comments

The intent of this section is to identify the Scope of Work (SOW) that is required to restore the Sandy related damages to their pre disaster function and capacity, in the same location, in a code compliant manner. It should be noted that restoring the scope of work in the same location may not be feasible or code compliant. This applicant falls under the umbrella of OMB All damages were a result of surge flooding.

Attachments

User	Date	Document Type	Description	Hard Copy File Reference	File Name	Action
LAURA CLEMONS	06-28-2013	Lease Agreement	Lease Agreement		Museum Lease (full).pdf(3.95 Mb)	View
LAURA CLEMONS	06-28-2013	Lease Agreement	Lease Property Map		Museum Lease - Exhibit A-1-Project premises map.pdf(1.33 Mb)	View
LAURA CLEMONS	06-28-2013	Lease Agreement	Lease Amendment 1		Museum lease-First Amendment to Museum Lease - (# Legal 3173070).pdf(4.88 Mb)	View
LAURA CLEMONS	06-28-2013	Drawings/Sketches	Floor Plans site 1		Floor Plans_Site 1 ground fl and basement.pdf(720.91 kb)	View
JOSEPH PAOLOZZI	12-30-2014		Site 6 Images and descriptions of damages to fender piles and whales		Images and descriptions of damages to fender piles and whales_compressed.pdf(2.46 Mb)	View

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. <small>(maximum 4000 characters)</small> See attached insurance documents	
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. <small>(maximum 4000 characters)</small> See attached FEMA Firmette	
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)?	Unsure
5. Does the applicant have a hazard mitigation proposal or would the applicant like technical assistance for a hazard mitigation proposal?	Yes
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?	Yes
If you would like to make any comments, please enter them below. <small>(maximum 4000 characters)</small> It is a Historic District (see attached) and just the exterior of 5 of their sites are Historic. The buildings are not owned by the Applicant. There isn't any work being done to the exterior.	
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?	Yes
If you would like to make any comments, please enter them below. <small>(maximum 4000 characters)</small> Work will needed to be done in the water to repair/replace fender piles/whales	

Attachments

User	Date	Document Type	Description	Hard Copy File Reference	File Name	Action
LAURA CLEMONS	06-28-2013	Floodplain	FEMA Firmette		FEMA Firmette.docx(2.92 Mb)	View
LAURA CLEMONS	06-28-2013	Environmental/Historic Document	Historic District Designation		Historic District Designation Report.pdf(1.53 Mb)	View

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

Is effective mitigation feasible on this project? Yes
 If you answered **Yes** to the above question, the next question is required
 Will mitigation be performed on any sites in this project? Yes
 If you answered **Yes** to the above question, the next question is required
 Do you wish to attach a Hazard Mitigation Proposal? Yes
 If you answered **Yes** to the above question, the next two questions are required
 Please provide the Scope of Work for the estimate: See attachments
 Would you like to add the Hazard Mitigation Proposal as a cost line item to the project cost? Yes

Hazard Mitigation Proposal - 0909									
#	Code	Material and/or Description	Unit Quantity	Unit of Measure	Unit Price	Subgrant Budget Class	Type	Cost Estimate	Action
*** Version 0 ***									
1	9999	Site 1 Mitigation	1	LS	\$ 625,380.00	CONSTRUCTION		\$ 625,380.00	
2	9999	Site 4 Mitigation	1	LS	\$ 8,125.00	CONSTRUCTION		\$ 8,125.00	
3	9999	Site 5 Mitigation	1	LS	\$ 23,535.00	CONSTRUCTION		\$ 23,535.00	
4	9999	Site 6 Mitigation	1	LS	\$ 583,494.00	CONSTRUCTION		\$ 583,494.00	
5	9999	Soft costs for 4 sites	1	LS	\$ 1,913,360.00	OTHER		\$ 1,913,360.00	
								Total Cost: \$ 3,153,894.00	

Comments

Attachments

Cost Estimate

Is this Project Worksheet for PA Alternative Procedures

(Preferred) Repair									
Sequence	Code	Material and/or Description	Unit Quantity	Unit of Measure	Unit Price	Subgrant Budget Class	Type	Cost Estimate	Action
*** Version 0 ***									
Work Completed									
1	0000	Site 1 - 12 Fulton Street, 165 John Street, 167-171 John Street New York, NY					Work Completed	\$ 0.00	
2	9001	Contract	1	LS	\$ 179,625.00	CONTRACTUAL	Work Completed	\$ 179,625.00	
3	0000	Site 2- 14 Fulton Street New York, NY					Work Completed	\$ 0.00	
4	9001	Contract	1	LS	\$ 9,620.32	CONTRACTUAL	Work Completed	\$ 9,620.32	
Work To Be Completed									
5	0000	Site 1 - 12 Fulton Street, 165 John Street, 167-171 John Street New York, NY					Work To Be Completed	\$ 0.00	
6	9001	Contract	1	LS	\$ 3,911,702.40	CONTRACTUAL	Work To Be Completed	\$ 3,911,702.40	
7	0000	Site 4 - 211 Water Street, New York, NY					Work To Be Completed	\$ 0.00	
8	9001	Contract	1	LS	\$ 173,853.44	CONTRACTUAL	Work To Be Completed	\$ 173,853.44	
9	0000	Site 5 - 213-215 Water Street, New York, NY					Work To Be Completed	\$ 0.00	
10	9001	Contract	1	LS	\$ 260,780.16	CONTRACTUAL	Work To Be Completed	\$ 260,780.16	
11	0000	Site 6 - Pier 16, New York, NY 10038					Work To Be Completed	\$ 0.00	
12	9001	Contract	1	LS	\$ 4,346,336.00	CONTRACTUAL	Work To Be Completed	\$ 4,346,336.00	
Direct Subgrantee Admin Cost									
13	9901	Direct Administrative Costs (Subgrantee)	1	LS	\$ 481,432.45	INDIRECT CHARGES	Direct Subgrantee Admin Cost	\$ 481,432.45	
Other									
14	9202	PAAP Consolidated Fixed Estimate (no value, tracking purposes only)	1	LS	\$ 0.00	OTHER	Other	\$ 0.00	
								Total Cost : \$ 9,363,349.77	

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
								Total Cost : \$ 0.00	

Hazard Mitigation Proposal - 0909									
Sequence	Code	Material and/or Description	Unit Quantity	Unit of Measure	Unit Price	Subgrant Budget Class	Type	Cost Estimate	Action
*** Version 0 ***									
1	9999	Site 1 Mitigation	1	LS	\$ 625,380.00	CONSTRUCTION		\$ 625,380.00	
2	9999	Site 4 Mitigation	1	LS	\$ 8,125.00	CONSTRUCTION		\$ 8,125.00	
3	9999	Site 5 Mitigation	1	LS	\$ 23,535.00	CONSTRUCTION		\$ 23,535.00	
4	9999	Site 6 Mitigation	1	LS	\$ 583,494.00	CONSTRUCTION		\$ 583,494.00	
5	9999	Soft costs for 4 sites	1	LS	\$ 1,913,360.00	OTHER		\$ 1,913,360.00	

	Total Cost : \$ 3,153,894.00
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Total Cost Estimate: <small>(Preferred Estimate Type + Insurance Adjustments + Hazard Mitigation Proposal)</small>	\$ 12,517,243.77
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Comments
 Certified estimate provided by applicant. State CEF and HMP estimates done by site for verification. This applicant falls under the OMB designation. DAC is a flat 4% rate agreed to by NYC and FEMA on all 428 estimates. Accountability for DAC: Applicant will provide certification, due at closeout, that DAC costs were expended in support of the approved 428 project. Soft cost amounts verified by attached CEF certified estimate.

Attachments						
User	Date	Document Type	Description	Hard Copy File Reference	File Name	Action
LAURA CLEMONS	06-28-2013	Miscellaneous	Procurement Policy		Procurement Policy Updated 01-25-13.pdf(35.76 kb)	View
JOSEPH PAOLOZZI	01-05-2015		Certified Estimate for In Kind repair		South Street Seaport Museum 12-29-14 Capped Cert R1.xlsx(1.83 Mb)	View
JOSEPH PAOLOZZI	02-24-2015		State Ver. In kind Repair CEF		State CEF validation In Kind Repairs_1_5_15.pdf(585.84 kb)	View
JOSEPH PAOLOZZI	02-24-2015		State HMP Validation validation		State HMP Validation validation.xlsx(4.56 Mb)	View
MADELEINE CLICHE	02-25-2015	Invoice	Vendor_Quote_1_Wheelchair_lift_Savaria_model_V1504		Vendor_Quote_1_Wheelchair_lift_Savaria_model_V1504.pdf(728.85 kb)	View
MADELEINE CLICHE	02-25-2015	Invoice	Vendor_Quote_2_AFA_Protective_Systems,_verified		Vendor_Quote_2_AFA_Protective_Systems,_verified.pdf(308.24 kb)	View
MADELEINE CLICHE	02-25-2015	Invoice	Vendor_Quote_3_Demand_Electric		Vendor_Quote_3_Demand_Electric.pdf(137.62 kb)	View
MADELEINE CLICHE	02-25-2015	Invoice	Vendor_Quote_4_Sherland_&_Farrington		Vendor_Quote_4_Sherland_&_Farrington.pdf(158.63 kb)	View
MADELEINE CLICHE	02-25-2015	Invoice	Vendor_Quote_5_Ropes_and_Gangways		Vendor_Quote_5_Ropes_and_Gangways.pdf(1.72 Mb)	View
MADELEINE CLICHE	02-25-2015	Invoice	Vendor_Quote_6_Xyamica		Vendor_Quote_6_Xyamica.pdf(28.19 kb)	View
MADELEINE CLICHE	02-25-2015	Invoice	Vendor_Quote_7_Giachetti_Plumbing		Vendor_Quote_7_Giachetti_Plumbing.pdf(147.01 kb)	View
MADELEINE CLICHE	02-25-2015	Invoice	Vendor_Quote_8_Cassone_Trailer_and_Container_Co		Vendor_Quote_8_Cassone_Trailer_and_Container_Co.pdf(31.82 kb)	View
MADELEINE CLICHE	02-25-2015	Invoice	Vendor_Quote_9_Cassone_Trailer_and_Container_Co		Vendor_Quote_9_Cassone_Trailer_and_Container_Co.pdf(30.53 kb)	View
MADELEINE CLICHE	02-25-2015	Invoice	Vendor_Quote_14_and_15_City_Elevator		Vendor_Quote_14_and_15_City_Elevator.pdf(459.10 kb)	View
MADELEINE CLICHE	02-25-2015	Invoice	Vendor_Quote_16_City_Elevator		Vendor_Quote_16_City_Elevator.pdf(198.64 kb)	View
MADELEINE CLICHE	02-25-2015	Invoice	Vendor_Quote_17_City_Elevator		Vendor_Quote_17_City_Elevator.pdf(42.59 kb)	View
MADELEINE CLICHE	02-25-2015	Invoice	Vendor_Quote_18_King_Freeze		Vendor_Quote_18_King_Freeze.pdf(78.97 kb)	View
MADELEINE CLICHE	02-25-2015	Additional Information	Certified_Estimate_Permanent_Work_HMP_South_Street_Seaport_Museum_12-29-2014_R1		Certified_Estimate_Permanent_Work_HMP_South_Street_Seaport_Museum_12-29-2014_R1.xlsx(4.38 Mb)	View

Existing Insurance Information

Insurance Type	Policy No.	Bldg/Property Amount	Content Amount	Insurance Amount	Deductible Amount	Years Required
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Comments

Attachments						
User	Date	Document Type	Description	Hard Copy File Reference	File Name	Action
LAURA CLEMONS	06-28-2013	Insurance Document	Ocean Marine Liability		Insurance_ Ocean Marine Liability.pdf(724.60 kb)	View
LAURA CLEMONS	06-28-2013	Insurance Document	Business Auto		Insurance_Business Auto.pdf(3.17 Mb)	View
LAURA CLEMONS	06-28-2013	Insurance Document	Crime Coverage		Insurance_Chubb Crime Coverage.pdf(916.11 kb)	View
LAURA CLEMONS	06-28-2013	Insurance Document	Chubb PNP Terms and Conditions		Insurance_Chubb PNP Terms and Conditions.pdf(4.86 Mb)	View
LAURA CLEMONS	06-28-2013	Insurance Document	Commercial Property		Insurance_Commercial Property.pdf(4.42 Mb)	View
LAURA CLEMONS	06-28-2013	Insurance Document	Commercial Umbrella and Excess Liability		Insurance_Commercial Umbrella and Excess Liability.pdf(4.30 Mb)	View

LAURA CLEMONS	06-28-2013	Insurance Document	Employment Liability	Insurance_Employment Liability.pdf(129.94 kb)	View
LAURA CLEMONS	06-28-2013	Insurance Document	Excess Marine Liability	Insurance_Excess Marine Liability.pdf(1.26 Mb)	View
LAURA CLEMONS	06-28-2013	Insurance Document	Fine Arts Policy	Insurance_Fine Arts Policy 12-13.pdf(183.77 kb)	View
LAURA CLEMONS	06-28-2013	Insurance Document	Flood Policy	Insurance_Flood Policy.pdf(401.18 kb)	View
LAURA CLEMONS	06-28-2013	Insurance Document	Marine Hull and Machinery	Insurance_Marine Hull and Machinery.pdf(1.85 Mb)	View
LAURA CLEMONS	06-28-2013	Insurance Document	Workers Comp Insurance	Insurance_State Fund_Workers Comp.pdf(828.58 kb)	View
LAURA CLEMONS	06-28-2013	Insurance Document	Water Quality Pollution Insurance	Insurance_Water Quality Pollution.pdf(598.12 kb)	View

Name of Section	Comment	Attachment
Preparer Information		FEMA Legal Op South Street Seaport Museum Eligibility Letter.pdf
Project Description	Site 3 has no repairs and was omitted after all docs were labeled with 6 sites. Too time consuming to re-label everything so we just stated it was omitted intentionally. EDC, on behalf of NYC, has provided an affidavit as to the legal responsibilities of the landlord NYC, and the tenant SSSM, affidavit attached	Map with floor plans.pdf FEMA Firmette.pdf SSSM 428 Extension Request 12.22.14.pdf SSSM FEMA 428 Form.pdf Affidavit - Cote - Executed.pdf Site 1 Mitigation Scope of Work revised 4.24.15.docx Site 6 Mitigation Scope of Work revised 4.24.15.docx
Damage Facilities	The intent of this section is to identify the Scope of Work (SOW) that is required to restore the Sandy related damages to their pre disaster function and capacity, in the same location, in a code compliant manner. It should be noted that restoring the scope of work in the same location may not be feasible or code compliant. This applicant falls under the umbrella of OMB All damages were a result of surge flooding.	Museum Lease (full).pdf Museum Lease - Exhibit A-1-Project premises map.pdf Museum lease-First Amendment to Museum Lease - (# Legal 3173070).pdf Floor Plans Site 1 ground fl and basement.pdf Images and descriptions of damages to fender piles and whales compressed.pdf
Special Considerations		FEMA Firmette.docx Historic District Designation Report.pdf Procurement Policy Updated 01-25-13.pdf South Street Seaport Museum 12-29-14 Capped Cert R1.xlsx State CEF validation In Kind Repairs 1 5 15.pdf State HMP Validation validation.xlsx Vendor Quote 1 Wheelchair lift Savaria model V1504.pdf Vendor Quote 2 AFA Protective Systems_verified.pdf Vendor Quote 3 Demand Electric.pdf Vendor Quote 4 Sherland & Farrington.pdf Vendor Quote 5 Ropes and Gangways.pdf Vendor Quote 6 Xyamica.pdf Vendor Quote 7 Giachetti Plumbing.pdf Vendor Quote 8 Cassone Trailer and Container Co.pdf Vendor Quote 9 Cassone Trailer and Container Co.pdf Vendor Quote 14 and 15 City Elevator.pdf Vendor Quote 16 City Elevator.pdf Vendor Quote 17 City Elevator.pdf Vendor Quote 18 King Freeze.pdf Certified Estimate Permanent Work HMP South Street Seaport Museum -12-29-2014 R1.xlsx
Cost Estimate	Certified estimate provided by applicant. State CEF and HMP estimates done by site for verification. This applicant falls under the OMB designation. DAC is a flat 4% rate agreed to by NYC and FEMA on all 428 fixed estimates. Accountability for DAC: Applicant will provide certification, due at closeout, that DAC costs were expended in support of the approved 428 project. Soft cost amounts verified by attached CEF certified estimate.	Insurance_Ocean Marine Liability.pdf Insurance_Business Auto.pdf Insurance_Chubb Crime Coverage.pdf Insurance_Chubb PNP Terms and Conditions.pdf Insurance_Commercial Property.pdf Insurance_Commercial Umbrella and Excess Liability.pdf Insurance_Employment Liability.pdf Insurance_Excess Marine Liability.pdf Insurance_Fine Arts Policy 12-13.pdf Insurance_Flood Policy.pdf Insurance_Marine Hull and Machinery.pdf Insurance_State Fund_Workers Comp.pdf Insurance_Water Quality Pollution.pdf
Insurance Information		

Bundle Reference # (Amendment #)	Date Awarded

Subgrant Application - FEMA Form 90-91

FEDERAL EMERGENCY MANAGEMENT AGENCY PROJECT WORKSHEET					
DISASTER		PROJECT NO.	PA ID NO.	DATE	CATEGORY
FEMA	4085 - DR -NY	U90WM04	061-U90WM-00	05-29-2014	E
APPLICANT: SOUTH STREET SEAPORT MUSEUM				WORK COMPLETE AS OF: 12-16-2014 : 2 %	
Site 1 of 5					
DAMAGED FACILITY:				COUNTY: New York	
Site 1:12 Fulton Street Museum Space					
LOCATION:		LATITUDE:		LONGITUDE:	
Site 1:12 Fulton Street, 165 John Street, 167-171 John Street New York, NY (Latitude: 40.7065414, Longitude: -74.0034847)Coordinates taken at center of site.		40.7065414		-74.003484	
DAMAGE DESCRIPTION AND DIMENSIONS:					
Current Version: During the incident period October 27 through November 8, 2012, Hurricane Sandy caused rising flood waters and tidal surge from 10 to 12 feet, throughout lower Manhattan, New York. The storm surge caused 6 to 8 feet of flooding in the 2,935 square foot basement and 13,680 square foot ground floor of the Fulton Street space of the South Street Seaport Museum. The building that houses the Museum is owned by the City of New York. (see attachment "City Ownership_Non-Disturbance Agreement") Water infiltration damaged or destroyed the interiors, wiring, heating/dehumidification/climate control system, fire safety system, fire alarm system extension, power back-up system, 2 elevators, 2 escalators, and a wheel chair lift.					
Damaged Items include: Electrical Service 1200A 208Y/120V 3 phase service distribution panels in basement. Service End Box CT Metering Cabinet 1200A Service Rated Disconnect 600A Disconnect (Fluid Coolers & Pump Disconnects CT3; 1st Floor Chillers & Lighting)					

400A Disconnect (A/C Units 3rd & 4th Floor)
 400A Disconnect (Panel PMH-6, 3rd and 4th Floor Lighting & Outlets)
 Subpanel - LP-B Sect#1 Panel
 Subpanel - LP-B Sect#2 Panel
 Subpanel - PMH-5
 Subpanel - PMH-4
 1200A Service Conductor: 4 Sets (4-350 MCM, 1-3/0 GND, 3-1/2" C)

Fire Alarm system in the basement and all attached devices, including:

1 Notifier Fire Alarm control Panel with purge capacity
 1 Fire Alarm remote annunciator
 2 Manual pull stations
 5 Horn Strobe units
 22 Area smoke detectors-basement, elevator, lobbies
 1 smoke beam detector
 9 control relays - for fan shutdown, escalator, pump run and fail
 2 water-flow switches
 7 tamper switches
 19 monitor modules - for water-flow, tamper switches, manuals and pump
 1 weatherproof bell
 1 central station connection
 1 fuse disconnect switch
 1 necessary pipe and wire for proper system installation

Fire alarm system extension:

1 Notifier Fire Alarm Control LCM Module
 1 Notifier LCM Module for Control Panel
 2 Fire Alarm Remote Annunciator
 49 Area Smoke Detectors – building floors and elevator lobbies
 4 Duct Smoke Detectors with Housings, Sampling Tubes and LED's (Base on 2 HVAC Units)
 4 Relay Modules for Duct Smoke Detectors
 3 Control Relays for Fan Shutdown (2 HVAC Units) and Elevator Recall
 18 Manual Pull Stations for all exit stairways and exit doors
 29 Horn Strobes Units
 12 Strobe Light Units
 5 FCPS Power Supply and Sync Panel

Power Back-up System was damaged, it had serviced existing lighting with an AT Lite Battery Inverter consisting of three triple layered battery cabinets, an AT Lite Inverter cabinet, and a 200A service disconnect.

Back "Service" Elevator

Elevator equipment in existing machine room, elevator sump, shaftway & plunger. This is a 5000# capacity hydraulic elevator with 3 front openings and 5 rear openings, and standard cab interior, 6'-6" x 9'-0". Includes fuse disconnect (208V, 3Phase, 200A frame), one 20A 120V, 1 Phase circuit for the elevator lighting and one 20A 120V, 1 Phase circuit convenience power in the elevator pit (GFCI). A communication line to the elevator machine room was also damaged.

Front "Passenger" Elevator

Elevator equipment in existing machine room damaged, elevator, shaftway and plunger. Existing elevator capacity 2100# hydraulic elevator with 5 front openings, and standard cab interior, 4'-3" x 5'-8". Fused disconnect (208V, 3Phase, 200A frame) in the elevator machine room. one 20A 120V, 1 Phase circuit for the elevator lighting and one 20A 120V, 1 Phase circuit convenience power in the elevator pit (GFCI). The communication line to the elevator machine room was also damaged

Two(2) Escalators

2 Escalators and wiring were damaged. Current escalators are Thyssen Krupp "Velino" models type FT 823, 24" wide steps. The rise is 18'-7" at 30 degrees. The speed is 100 fpm. wiring and conduit was damaged, electrical connect consisting of electrical equipment, such as motors, limit switches, control boards were damaged. The elevator service was damaged, which was 60A of service, which is 3#6 conductors, 1#10, 1-1/4" Conduit.

Wheelchair Lift

The Wheelchair lift, its components, wiring, controls, and circuit were all damaged. The service was a 2#12AWG, 1#12GND, in a 3/4" conduit. This was all submerged.

Heating/Dehumidification/Climate Control System damaged by flood-waters

Items include:

60 LF 2" high pressure steam piping
 Meter inlet control valves
 (3) Pneumatic Pressure Reducing valves/stations
 (1) pneumatic control compressor and air filter/dryer
 100 LF 4" Low Pressure distribution piping
 200 LF 2" Low Pressure distribution piping
 Steam to hot water heat exchanger 8" x 48"
 Isolation valves
 Thermometer
 Gauges
 (8) 2" gate zone
 (4) 4" shutoff valves
 6 LF steam drip leg traps and associated condensate piping
 Simplex steam condensate pump

SCOPE OF WORK:

Current Version:

The Applicant, South Street Seaport Museum, has requested the opportunity and responsibility to utilize the flexibility of Section 428 to aggregate the costs for repair/replacement of its facilities damaged by Hurricane Sandy into a fixed, capped grant utilizing the Public Assistance Alternate Procedures (PAAP).

Subject to the provisions of Section 428 of the Stafford Act, working in conjunction with the Applicant's staff, NYS OEM has developed the Damage Description and Dimensions (DDD) and eligible Scope of Work (SOW) for those facilities as shown in the attached Sites One (1), Two (2), Four (4), Five (5) and Six (6). Site Three did not have damage; therefore, Site Three is not captured in the PW.

The applicant has provided certified cost estimates from its licensed engineer for the performance of that work. South Street Seaport Museum is a tenant at five sites with the NYC Economic Development Corporation (EDC) as the landlord. The NYC EDC is one of the OMB City Agencies. NYC agencies utilize NYC specific estimating factors to fully capture the costs associated with eligible work. As a tenant to EDC, the Museum is required to perform the work under the same means, methods, and conditions as construction work performed by EDC. Therefore, the certified estimated submitted by the South Street Seaport Museum are appropriately validated with the OMB estimating factors in this PW. FEMA has reached agreement with the Applicant on the validated scope and cost Accordingly, at the Applicant's request, the detailed damage descriptions (DDD), eligible scope of work (SOW) and validated cost estimates contained in this PW are hereby aggregated into this fixed, capped PAAP grant Project Worksheet (PW).

<<< Site 1 – Baseline Scope >>>

The following scope is eligible under Section 406 and establishes the baseline cost for this Site sheet of the Section 428 capped grant.

--- DAC ---

Direct Administrative Costs are estimated at 4 percent.

--- Work Completed ---

12 Fulton Street

A contractor was hired to replace the fire system in the basement, including all devices, pipes and wires leading to the control panel in lobby. Contractor replaced the fire alarm control panel and communicator, reconnected all remaining devices and alarm relays from subsequent floors, reprogrammed them to the central station and tested the system.

Includes:

1 Notifier Fire Alarm control Panel with purge capacity
 1 Fire Alarm remote annunciator
 2 Manual pull stations
 5 Horn Strobe units
 22 Area smoke detectors-basement, elevator, lobbies
 1 smoke beam detector
 9 control relays - for fan shutdown, escalator, pump run and fail
 2 water-flow switches
 7 tamper switches
 19 monitor modules - for water-flow, tamper switches, manuals and pump
 1 weatherproof bell
 1 central station connection
 1 fuse disconnect switch
 1 necessary pipe and wire for proper system installation
 1 test for proper operation
 1 FDNY inspection and test

Total: \$69,750.00

165 John Street-Museum Upper Floors & 167-171 John Street (Low Building) Fire Alarm System

Applicant hired contractor to install new Fire alarm system extension at the above address. Installation includes:

1 Notifier Fire Alarm Control LCM Module
 1 Notifier LCM Module for Control Panel
 2 Fire Alarm Remote Annunciator
 49 Area Smoke Detectors – building floors and elevator lobbies
 4 Duct Smoke Detectors with Housings, Sampling Tubes and LED's (Base on 2 HVAC Units)
 4 Relay Modules for Duct Smoke Detectors
 3 Control Relays for Fan Shutdown (2 HVAC Units) and Elevator Recall
 18 Manual Pull Stations for all exit stairways and exit doors
 29 Horn Strobes Units
 12 Strobe Light Units
 5 FCPS Power Supply and Sync Panel
 1 Necessary pipe and wire for risers and above equipment system installation
 1 Test for proper operation

Total: \$109,875.00
 Total Work Completed: \$179,625.00

--- Work to be Completed ---

Fulton Street location

Remove damaged electrical in basement:

Remove (1) 2000 AMP Main Service Switch Bussed to MDP(As demolition for this item is not available on RS Means 50% of installation labor is used)

Remove (1) Main Distribution Panel MDP-1 Consisting of (1) 1200 AMP

Remove (2) 400 AMP

Remove (5) 225 AMP

Remove (1) 100 AMP

Remove (1) 2000 AMP CT Cabinet Enclosure - Bussed to Main Switch(As demolition for this item is not available on RS Means 50% of installation labor is used)

Remove (1) 10 Point NYC Meter Pan(exact item not available on RS Means, therefore nearest item used)

Remove(5) Sets of 500 MCM with Limiters approx. 1000'

Remove (3) Sets of 500 MCM approx. 900'

Remove (1) 225 AMP Panel 3 Phase Panel Designation PM-H3(exact item not available on RS Means, therefore nearest item used)

Remove (1) 225 AMP Panel 3 Phase Panel Designation PM-H4

Remove (30) Breakers in Panels submerged under water remove (exact item not available on RS Means, therefore nearest item used)

Remove (20) Breakers in Panels submerged under water remove (exact item not available on RS Means, therefore nearest item used)

Remove (2) 2 Pole 20 AMP THQL Circuit Breakers PM-H3 & PM-H4 (2) Breakers in Panels submerged under water remove(exact item not available on RS Means, therefore nearest item used)

Remove Wire (1) Sets of 250 MCM approx. 240'

Remove Wire,(1) Sets of 250 MCM approx. 200'

Remove 100 AMP 3 Phase (2) Section Panel Designation LP-B Sec #1 and Sec # 2 AQ Type

Remove Wire (1) Sets of 2 THHN approx. 200'

Remove Wire (1) Sets of 2 THHN approx. 80'

Remove (1) Time Clock wall mounted Basement Underwater Remove(As demolition for this item is not available on RS Means 50% of installation labor is used)

Remove (6) Sets of 500 MCM approx. 600' THHN

Remove (8) Sets of 500 MCM approx. 800' THHN

Remove (5) Set of 250 MCM Feeders from Junction box for PMH-1 Feed to MDP-1. Approx. 500' THHN

Remove (5) Set of 250 MCM Feeders from Junction box for PMH-1 Feed to MDP-1. Approx. 500' THHN

Remove (5) Set of 250 MCM Feeders from Junction box for PMH-1 Feed to MDP-1. Approx. 500' THHN

Replace electrical service in basement:

2000 AMP Main Service Switch Bussed to MDP(2000 AMP Main Service Switch Bussed to MDP)

Main Distribution Panel MDP-1 Consisting of (1) 1200 AMP(Main Distribution Panel MDP-1 Consisting of (1) 1200 AMP)

Main Distribution Panel MDP-1 Consisting of (2) 400 AMP(circuit breaker, 3 pole, 600 Volt, enclosed)

Main Distribution Panel (5) MDP-1 Consisting of (5) 225 AMP(circuit breaker, 3 pole,225 amp 600 Volt, enclosed)

Main Distribution Panel MDP-1 Consisting of (1) 100 AMP(circuit breaker, 3 pole, 100 amp, 600 Volt, enclosed)

2000 AMP CT Cabinet Enclosure - Bussed to Main Switch(cabinet double door, 60" H x 60" W x 10" D NEMA 12, floor mounted)

10 Point NYC Meter Pan(exact item not available in RS Means so nearest item selected)

(5) Sets of 500 MCM with Limiters approx. 1000'

1000 LF 1-1/4" Conduit

(5) Sets of 500 MCM with Limiters approx. 1000'

900 LF 1-1/4" Conduit

225 AMP Panel 3 Phase Panel Designation PM-H3(Panel Board 3 phase, 4 wire, main circuit breaker 120/208 V, 225 Amp 42 Circuits) NQOD Including a 1 pole plug-in breaker) PM-H3

225 AMP Panel 3 Phase Panel Designation PM-H4(Panel Board 3 phase, 4 wire, main circuit breaker 120/208 V, 225 Amp 42 Circuits) NQOD Including a 1 pole plug-in breaker) PM-H4

(30) Breakers in Panels submerged under water remove and replace(panel board 3 phase, 4 wire, main lugs 120/208 V, 100 amp 30 Circuits NQOD including a 1 pole plug-in breaker)

(20) Breakers in Panels submerged under water remove and replace(panel boards, 1 phase, 3 wire, main lugs, 120/208V 100 AMP, 20 Circuits, NQOD Including 1 pole)

(1) Pole 20 AMP THQL Circuit Breakers

(2,4) Sets of 250 MCM approx. 240'

(240) LF 1" Conduit

(2) CLF (1) Sets of 250 MCM approx. 200'

(200) LF 1" Conduit

(27) CLF Branch Conduit and Wiring in Basement underwater. Cut back (6) conduits at 1st floor, pull wires back 1st floor clean conduit. Extend (25) existing branch circuits with new # 12 THHN wiring from 1st floor to PM-H3. Apox 100' for each branch circuit

(2700) LF 1/2" Conduit

100 AMP 3 Phase (2) Section Panel Designation LP-B Sec #1 and Sec # 2 AQ Type(panel board, 3 phase, 4 wire, main circuit breaker, 277/480 v, 100 AMP, 30 circuit, NEHB, including 20 A1 pole plug-in breaker)

2 CLF Sets of 2 THHN approx. 200'

200 LF 1/2" Conduit

(8) Sets of 2 THHN approx. 200'

(80)LF 1/2" Conduit

(40) CLF Conduit and Wiring in Basement underwater. Cut back (15) conduits at 1st floor, pull wires back 1st floor clean conduit. Extend (40) exiting lighting branch circuits with new # 12 THHN wiring from 1st floor to LP-B Section 1 and Sec 2. Apox 100' for each branch circuit

(4000)LF 1/2" Conduit

120V Time Clock

(6) Sets of 500 MCM approx. 600' THHN

600 LF 1-1/4" Conduit

(8) Sets of 500 MCM approx. 800' THHN

800 LF 1-1/4" Conduit

(5) Sets of 250 MCM approx. 500

500 LF 1" Conduit

(5) Sets of 250 MCM approx. 500

500 LF 1" Conduit

(5) Sets of 250 MCM approx. 500

500 LF 1" Conduit

Remove damaged emergency backup power:

Remove AT Lite Battery Inverter 125 AMP ups with bypass (As demolition for this item is not available on RS Means 50% of installation labor is used)

Remove (4) triple layered battery cabinets, 10 cell ups battery array (As demolition for this item is not available on RS Means 50% of installation labor is used)

Remove 200A service disconnect. (As demolition for this item is not available on RS Means 50% of installation labor is used) Install Emergency backup power system

AT Lite Battery Inverter 125 AMP ups with bypass

(4) AT Lite Battery Inverter 125 AMP ups with bypass

200A service disconnect

EM UPS Line and LP-EM panel load side wiring

Passenger & freight elevator

Restore existing elevator to service, based on design: 5000# capacity hydraulic elevator with 3 front openings and 5 rear openings, and standard cab interior, 6'-6" x 9'-0". (City Elevator provided a quote)

Pressure wash 266 SF, Pressure wash(cleaning masonry, heavy restoration, light soil, by chemical, high pressure wash

Fused disconnect (208V, 3Phase, 200A frame) in the elevator machine room

20A 120V, 1 Phase circuit for the elevator lighting

20A 120V, 1 Phase circuit convenience power in the elevator pit (GFCI)

(1) CLF communication line to the elevator machine room

Existing passenger elevator

Restore existing elevator to service, based on design: 2100# capacity hydraulic elevator with 5 front openings, and standard cab interior, 4'-3" x 5'-8". (City Elevator provided a quote)

120 SF Pressure wash, Pressure wash(cleaning masonry, heavy restoration, light soil, by chemical, high pressure wash

fused disconnect (208V, 3Phase, 200A frame) in the elevator machine room

20A 120V, 1 Phase circuit for the elevator lighting

20A 120V, 1 Phase circuit convenience power in the elevator pit (GFCI)

(1) CLF communication line to the elevator machine room

2 Existing escalators

Replace and remove all damaged/outdated escalator equipment per manufacturer's recommendations. Current escalators are Thyssen Krupp "Velino" models type FT 823, 24" wide steps. The rise is 18'-7" at 30 degrees. The speed is 100 fpm.(We have received a quote from a contractor to replace in kind)

Wheelchair lift:

Provide replacement equipment for minor damaged parts of lift

Pressure wash 1000 SF (cleaning masonry, heavy restoration, light soil, by chemical, high pressure wash

1000 SF Touch up, pointing masonry, cut and re-point block, hard mortar, running bond

Repair shaft wall, 1000 SF

Rewire and connect replacement lift.
 20A, 120VAC single phase circuit
 (3) 2#12AWG, assumed 300'
 (1.5)CLF 1#12GND
 (15) LF 3/4" conduit

Fulton Street location
 Fulton Street Mechanical:
 Remove 60 LF 2" high pressure steam piping
 Remove meter inlet control valves (As demolition for this item is not available on RS Means 50% of installation labor is used)
 Remove (3) Pneumatic Pressure Reducing valves/stations
 Remove (1) pneumatic control compressor and air filter/dryer
 Remove 100 LF 4" Low Pressure distribution piping (As demolition for this item is not available on RS Means 50% of installation labor is used)
 Remove 200 LF 2" Low Pressure distribution piping
 Remove steam to hot water heat exchanger 8" x 48" (As demolition for this item is not available on RS Means 50% of installation labor is used)
 Remove isolation valves (As demolition for this item is not available on RS Means 50% of installation labor is used)
 Remove thermometer (As demolition for this item is not available on RS Means 50% of installation labor is used)
 Remove gauges (As demolition for this item is not available on RS Means 50% of installation labor is used)
 Remove (8) 2" gate zone
 Remove (4) 4" shutoff valves (As demolition for this item is not available on RS Means 50% of installation labor is used)
 Remove 6 LF steam drip leg traps and associated condensate piping (As demolition for this item is not available on RS Means 50% of installation labor is used)
 Remove simplex steam condensate pump (As demolition for this item is not available on RS Means 50% of installation labor is used)

Install Mechanical
 PRV SYSTEM (Quote provided by King Freeze)
 CONDENSATE COOLER(Quote provided by King Freeze)
 AIR COMPRESSOR (Quote provided by King Freeze)
 STEAM CONDENSATE PUMP (Quote provided by King Freeze)
 PIPING (Quote provided by King Freeze)

INSULATION (Quote provided by King Freeze)
 DELIVERY/RIGGING (Quote provided by King Freeze)
 CONTROLS AND CONTROL WIRING (Quote provided by King Freeze)
 X-RAY WELDS (Quote provided by King Freeze)
 SHOP DWG FOR CON ED (Quote provided by King Freeze)
 DEMO (Quote provided by King Freeze)
 START UP AND TEST TIE SYSTEM (Quote provided by King Freeze)
 Power Wiring (Quote provided by King Freeze)

Work to be completed total: \$3,911,702.40

Total Site 1 \$4,091,327.40

<<< Alternate Scope under Section 428 >>>

The Applicant has not provided alternate scope.

<<< PROJECT NOTES >>>

RECORD RETENTION: Complete records and cost documents for all approved work must be maintained for at least 3 years from the date the last project was completed or from the date final payment was received, whichever is later. Applicant is responsible for retention of all documentation associated with this project.

SUPPORTING DOCUMENTATION: 20% or more of the documentation to support this project has been reviewed and verified by the Applicant and Project Specialist for eligibility and correctness.

PROCUREMENT: The applicant is required to adhere to State Government Procurement rules and regulations and maintain adequate records to support the basis for all purchasing of goods and materials and contracting services for projects approved under the Public Assistance program, as stated in 44 CFR 13.36. The applicant has advised they have/will follow their normal procurement procedures.

PERMITS: The PA Project Specialist has advised the Applicant that it is their responsibility to obtain all applicable local, state and federal permits prior to any construction or debris disposal activity referenced on this project. Applicant has also been advised that the lack of obtaining and maintaining these documents may jeopardize funding.

INSURANCE: The applicant is aware that all projects are subject to an insurance review as stated in 44 C.F.R. Sections 206.252 and 206.253.If applicable an insurance determination will be made either as anticipated proceeds or actual proceeds in accordance with the applicant's insurance policy that may affect the total amount of the project.

DIRECT ADMINISTRATIVE COSTS: The subgrantee requested Direct Administrative Costs (DAC) that are directly chargeable to this specific project. The costs captured here have been estimated and actuals will be presented at close-out. Associated eligible work is related administration of the PA project only and in accordance with 44 CFR 13.22. These costs are treated consistently and uniformly as direct costs in all federal awards and other subgrantee activities and are not included in any approved indirect cost rates.

<<< General Grant Management Requirements >>>

- Applicant is responsible to maintain records that allow FEMA compliance with the reporting and evaluation criterion of the Sandy Recovery Act with respect to hazard mitigation activities in a parallel manner to FEMA approvals
 - Applicant shall document as-planned and as-built drawings documenting hazard mitigation scope of work
 - Applicant shall document actual costs for hazard mitigation scope of work
- Applicant must complete work within established regulatory time frames and request time extensions as appropriate.
- Applicant must submit quarterly progress reports to the State for large projects in which the work is not completed and financially reconciled.
- Applicant will be reimbursed through the State in accordance with Federal and State requirements.
- Subgrants under alternative procedures are also subject to Strategic Funds Management (SFM), as appropriate, as outlined in guidance for the SFM initiative.
- Applicants must adhere to Federal procurement requirements, as well as other requirements of 44 CFR Part 13, 2 CFR Part 225, and the appropriate Office of Management and Budget circulars.
- The Applicant will comply with EHP requirements, notify FEMA of any work that requires EHP compliance reviews, and provide necessary documentation to conduct EHP reviews. The Grantee shall ensure the Applicant complies with EHP requirements.
- Applicant must not deposit grant funds in an interest-bearing account. If that occurs, the Applicant must remit to FEMA any interest earned.
- Applicant will submit to the Grantee a final report of project costs. This report will not be used for reconciliation of the fixed grant to actual costs, as would normally be required in the standard program. The final report should include the following components: Actual work completed with fixed-grant funds
 - Mitigation measures achieved, if applicable
 - Compliance with EHP conditions
 - Total actual costs to complete the project
 - Compliance with Federal procurement procedures
 - Actual insurance proceeds received by Applicant

Site 2 of 5

DAMAGED FACILITY: Site 2: Fulton Street Museum	COUNTY: New York
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LOCATION: Site 2: 14 Fulton St, New York, NY 10038 (Latitude: 40.7065978, Longitude: -74.0035324)Coordinates taken at center of site.	LATITUDE: 40.7065978	LONGITUDE: -74.003532
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DAMAGE DESCRIPTION AND DIMENSIONS:
 Current Version:
 During the incident period October 27 through November 8, 2012, Hurricane Sandy caused rising flood waters and tidal surge from 10 to 12 feet, throughout lower Manhattan, New York. The storm surge caused 6 to 8 feet of flooding in the 775 square foot ground floor of the Fulton Street space of the South Street Seaport Museum Store. The building that houses the Museum is owned by the City of New York. (see attachment "City Ownership_Non-Disturbance Agreement"). Water infiltration damaged or destroyed the electrical wiring.
 Electrical Items (overhead and wall outlets):
 (1) 100 2 Pole 24Ckt Panel
 (2) 2 Pole 40 AMP Breaker
 (12) 15 AMP Breakers
 (1) 30 AMP Non Fused Disconnect
 (1) Wire and Devices

SCOPE OF WORK:
 Current Version:
 <<< Baseline Scope >>>
 The following scope is eligible under Section 406 and establishes the baseline cost for this Site sheet of the Section 428 capped grant.

Work Completed Applicant hired contractor to complete following repairs to electrical: Remove and Replace (1) 100 AMP 24 Circuit Panel Provision and Installation of (1) 2 Pole 40 AMP Breaker Provision and Installation of (12) 15 AMP Single Pole Breakers Remove and Replace (1) 30 AMP non fused disconnect Remove and Install new branch circuit wiring for (18) Points/Devices Provision and Installation of (18) New Devices with Covers Total contractor cost \$9,9620.32			
Site 3 of 5			
DAMAGED FACILITY:		COUNTY: New York	
Site 4: Bowne Shop			
LOCATION:		LATITUDE: 40.7074065	LONGITUDE: -74.00354
Current Version: Site 4: 211 Water Street, New York, NY 10038 (Latitude: 40.7074065, Longitude: -74.0035407)Coordinates taken at center of site.			
DAMAGE DESCRIPTION AND DIMENSIONS:			
Current Version: During the incident period October 27 through November 8, 2012, Hurricane Sandy caused rising flood waters and tidal surge from 10 to 12 feet, throughout lower Manhattan, New York. The storm surge caused 6 to 8 feet of flooding in the 1,150 square foot ground floor and basement of the Bowne Shop space of the South Street Seaport Museum. The building that houses the Museum is owned by the City of New York. (see attachment "City Ownership_Non-Disturbance Agreement")Bowne Shop is a recreation of an 1870s style print shop holds the title of NYC's most venerable letterpress outpost. Water infiltration damaged or destroyed the AC unit,located in the basement, its electrical components, corroded BX cable, EMT conduit. The water cooled horizontal heat pump with a nominal capacity of 5 tons was damaged, which included a duct mounted electric heater with a nominal output of 17,000 btuh (5 kW). Interior of all duct-work in cellar, approximately 90 LF was contaminated.			
SCOPE OF WORK:			
Current Version: <<< Baseline Scope >>> The following scope is eligible under Section 406 and establishes the baseline cost for this Site sheet of the Section 428 capped grant.			
Work to be Completed			
Contractor estimate to: Remove damaged electrical systems Remove water cooled horizontal heat pump with a nominal capacity of 5 tons Remove duct mounted electric heater Remove MC Cables, 500 LF Remove Receptacles and boxes(28) Clean interior of all ductwork in cellar, 360 LF Install water cooled horizontal heat pump with a nominal capacity of 5 tons Install Duct mounted electric heater with a nominal output of 17,000 btuh (5 kW) Total cost: \$173,853.44			
Site 4 of 5			
DAMAGED FACILITY:		COUNTY: New York	
Site 5: Melville Gallery			
LOCATION:		LATITUDE: 40.707441	LONGITUDE: -74.00338
Current Version: Site 5: 213-215 Water Street, New York, NY 10038 (Latitude: 40.7074410, Longitude: -74.00333792)Coordinates taken at center of site.			
DAMAGE DESCRIPTION AND DIMENSIONS:			
Current Version: During the incident period October 27 through November 8, 2012, Hurricane Sandy caused rising flood waters and tidal surge from 10 to 12 feet, throughout lower Manhattan, New York. The storm surge caused 6 to 8 feet of flooding in the 2,506 square foot basement and 2,506 square foot ground floor of the Melville Gallery space of the South Street Seaport Museum. The building that houses the Museum is owned by the City of New York. (see attachment "City Ownership_NonDisturbance Agreement"). Water infiltration destroyed the entire 2,475 SF historic flooring and hardwood wall base.			
SCOPE OF WORK:			
Current Version: <<< Baseline Scope >>> The following scope is eligible under Section 406 and establishes the baseline cost for this Site sheet of the Section 428 capped grant.			
Work to be Completed:			
Item 5.1			
Estimate given to provide replacement for historic flooring: Install 2,475 SF of reclaimed hardwood flooring, and 2,475 of 3/4" plywood underlayment \$260,780.16			
Site 5 of 5			
DAMAGED FACILITY:		COUNTY: New York	
Site 6: Museum Boats/Visitors Center/Restaurant			
LOCATION:		LATITUDE: 40.705096	LONGITUDE: -74.002737
Current Version: Site 6: Pier 16, New York, NY 10038 (Latitude: 40.705096, Longitude: -74.002737)Coordinates taken at center of site.			
DAMAGE DESCRIPTION AND DIMENSIONS:			
Current Version: During the incident period October 27 through November 8, 2012, Hurricane Sandy caused rising flood waters, high winds and a tidal surge from 10 to 12 feet, throughout lower Manhattan, New York. The storm surges of over 10' washed over the 57,860 square feet City owned Pier (see attachment "City Ownership_Non-Disturbance Agreement") The SSSM is responsible for 3 structures located on the Pier. 1. Ticket Booth/ Visitors' Center 2. Skippers Café 3. The Maritime Craft Center) and the 3 ships (Ambrose,Peking, and Wavetree) that are docked there along with peripheral items attached to the Pier necessary for ship docking. The Ticket Booth/Visitors' Center are 2 connected small spaces in 1 building, measuring 25'x12'x8 and 8'x8'x8'. The Ticket booth/Visitors' center 3 ton ductless split system condensing unit was damaged, along with: an evaporator, 40A 3 Phase 208V service, 1"Conduit, 60A frame fused disconnect, ¾" Conduit, and casework. Skippers Café was a 16'x20' metal structure with a full gas kitchen and seating for 100. The Maritime Craft Center was a -16'x20'x8' structure. The Maritime Craft Center was washed away by Sandy. Water infiltration damaged or destroyed the buildings' interiors, electrical wiring. Corrosive seawater damaged the gangways(3), gangway cars(3), and three (3) gangway platforms. Pier 16 Fender piles, Walers and related hardware was deamaged beyond repair, or destroyed. Damages include: 1150 LF of 12x12 Walers 10 Cleats, 60 1"dia x 36" galv steel round head bolts 10 Bollard, 160 1"dia x 36" galv steel round head bolts 27 Fender piles 50 FT in length, equaling 1150 LF			

1150 LF of 10x10 Timber chocks

SCOPE OF WORK:

Current Version:
 <<< Baseline Scope >>>

The following scope is eligible under Section 406 and establishes the baseline cost for this Site sheet of the Section 428 capped grant.

The applicant has estimates to repair/replace the various items on and around the Pier.

Ticket Booth/Visitors' Center:
 Provide 3 ton ductless split system ac unit and duct work, condensing unit shall be on roof of kiosk and evaporator will be located inside.
 Installation of a 40A 3 Phase 208V service, via 4#8 AWG, 1#10 GND, in a 1" C to a 60A frame fused disconnect for the 3 ton split system assume a 50' section of cable/conduit. Install 4#12AWG control cables in a ¾" conduit between the roof level condenser and the visitor center floor evaporator unit approximately 25' away. Repair casework. Repaint 320 s.f. structure, exterior & interior.
 Remove and replace 848 SF of drywall
 Remove and replace receptacles and boxes(6)
 Remove and replace conduit, 60LF.

Skipper's Café
 The applicant has estimates to provide 16' x 20' modular replacement structure for Skippers Café. 4 glaze openings, 3' x 6' each. 2 doors at 3' x 7'.
 Lighting, HVAC, power. Canvas awning surround 6' wide with structure: 576 s.f.
 Install exhaust system
 Replacement kitchen equipment (lump sum allowance). Provide replacement utility connections.
 Install a replacement 200A 3Phase 208V service panel and required receptacles for the building's electrical requirements.
 It is assumed that at least a 1" domestic water supply line was installed for use in this space that was fed from the dock house. This line is to be replaced and backflow preventer installed if required.
 Also a 4" waste line serving prep sinks and a local grease trap was also assumed and should be replaced.
 A kitchen exhaust hood and fan systems will also be included. Duct shall be 10 gauge welded type greaseduct. The existing structure was previously provided with a natural gas connection for cooking purposes. This connection is to be restored and it is assumed the piping to the space will remain as well as existing meter, shutoff valves etc. Final connections to new appliances only.

The Maritime Craft Center:
 The applicant has estimates to provide 16' x 20' modular replacement structure for Maritime Craft Center. 5 glazed openings, 5' x 6' each. 6 porthole windows, 18" dia. 2 doors at 3' x 7'.
 Lighting
 HVAC
 Replacement casework.
 Provide replacement utility connections for power.
 Install a replacement 200A 3Phase 208V service panel and required receptacles for the building's electrical requirements.

Location 6: Ships and Associated Items - General
 See Dewberry document for Pier components and terminology.
 According to record drawings, Pier 16 is approximately 500 ft long with pile bents every 10 feet on center. The largest museum vessels permanently moored are the Ambrose and the Peking. Ambrose is listed as having a length of 135 ft, and Peking is listed as having a deck length of 320 ft. Scaled from record drawings, the distance from top of fender pile to mud line ranges from approximately 15 ft at bent No. 1 to 25 ft at bent No. 50. This translates to an average pile height above mud line of 20 ft, and assuming a reasonable pile embedment depth of 30 ft, results in an average assumed fender pile length of 50 ft.
 Bollards and cleats on pier 16 are cast. The typical failure modes for bollards this size are to part mooring lines or rip from their mountings, even when pulled out of plane. Cast bollards and cleats usually will not yield. There is no information produced that reflects the condition of the bollards and cleats on Pier 16 is such that they require replacement. Their mounting hardware, however, is all suspect and should be replaced.
 Timber chocks "whales" on both sides of damaged fender piles should be replaced.
 There are individual hung rubber type fenders at hard points along the pier. They are located above the waterline to absorb impact between the hull and the pier, dissipating vessel loads so that the pier is somewhat protected.
 Without access and a thorough inspection, the condition of the fender/structural pile system is based on information provided through previous inspections as follows:
 1. All recommendations made without the benefit of diver inspection reports or in-depth site inspections of vessels and moorings.
 2. All work marine premium cost.
 3. All timbers treated for marine environment.
 4. All work requires design documents and permits with NYC, and may involve other state and federal agencies.
 5. Mobilize and demobilize pile driving equipment.
 6. Repair in kind takes into consideration marine borer caused damage. This wood eating marine parasite has become an increasing problem for NYC as the water quality around New York Harbor has improved. Because of this, the repair in kind costs are for materials that the marine borer are not able to damage as this has become standard harbor practice.

Whales (timber chocks) and Fender Piles
 Repair in Kind
 Extract (27) piles 12" diameter 50' original length, damaged or broken below waterline. Piles may be concrete encased at the mudline. The concrete may engage adjacent structural piles on the pier. Install (27) timber piles 12" diameter, 50' long, average 30' embedment. Timber chocks "whales" (1150 linear ft) 10" x 10" plus hardware: Replace (200) 1" dia x 30"+/- long galvanized steel head bolts total. Timber Wale "aprons" (1150 linear ft) 12" x 12", replace, plus hardware: Replace (600) 3/4" diameter galvanized through bolts; increase level of difficulty to match location and pattern to existing holes in concrete pier. Wrap all new and existing fender piles (30 north side, 50 south side) to deter marine borer infestation.

Bollards and Cleats
 Repair in Kind
 Replace cleats and replace hardware on all mooring cleats and bollards: Bollards (10) each to be retained but replace (16) 1" dia x 36"+/- long galvanized steel round head bolts per bollard; increase level of difficulty to match location and pattern to existing holes in concrete pier. Cleat (10) replace, each cleat with (6) 1" dia x 36"+/- long galvanized steel round head bolts per cleat.

Ropes and Gangways.
 Replace in kind two(2) heavy duty truss style aluminum gangways, 40"x45"-0", and one(1) beam style aluminum gangway, 26"x30"-0, three(3) gangway cars, and three(3) gangway platforms, 12"x6"

Total Work to be completed: \$4,346,336.00

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

PROJECT COST					
ITEM	CODE	NARRATIVE	QUANTITY/UNIT	UNIT PRICE	COST
*** Version 0 ***					
Work Completed					
1	0000	Site 1 - 12 Fulton Street, 165 John Street, 167-171 John Street New York, NY	0/LS	\$ 0.00	\$ 0.00
2	9001	Contract	1/LS	\$ 179,625.00	\$ 179,625.00
3	0000	Site 2- 14 Fulton Street New York, NY	0/LS	\$ 0.00	\$ 0.00
4	9001	Contract	1/LS	\$ 9,620.32	\$ 9,620.32
Work To Be Completed					
5	0000	Site 1 - 12 Fulton Street, 165 John Street, 167-171 John Street New York, NY	0/LS	\$ 0.00	\$ 0.00
6	9001	Contract	1/LS	\$ 3,911,702.40	\$ 3,911,702.40
7	0000	Site 4 - 211 Water Street, New York, NY	0/LS	\$ 0.00	\$ 0.00
8	9001	Contract	1/LS	\$ 173,853.44	\$ 173,853.44
9	0000	Site 5 - 213-215 Water Street, New York, NY	0/LS	\$ 0.00	\$ 0.00
10	9001	Contract	1/LS	\$ 260,780.16	\$ 260,780.16
11	0000	Site 6 - Pier 16, New York, NY 10038	0/LS	\$ 0.00	\$ 0.00
12	9001	Contract	1/LS	\$ 4,346,336.00	\$ 4,346,336.00
Direct Subgrantee Admin Cost					
13	9901	Direct Administrative Costs (Subgrantee)	1/LS	\$ 481,432.45	\$ 481,432.45
Other					
14	9202	PAAP Consolidated Fixed Estimate (no value, tracking purposes only)	1/LS	\$ 0.00	\$ 0.00
15	0909	Hazard Mitigation Proposal	1/LS	\$ 3,153,894.00	\$ 3,153,894.00
TOTAL COST					\$ 12,517,243.77

PREPARED BY Joseph Paolozzi	TITLE PAC	SIGNATURE
APPLICANT REP. Jonathan Boulware	TITLE President	SIGNATURE

SOUTH STREET SEAPORT MUSEUM :					
Conditions Information					
Review Name	Condition Type	Condition Name	Description	Monitored	Status
No Conditions					

Internal Comments				
No.	Queue	User	Date/Time	Reviewer Comments
No Comments				