

SCOPE OF WORK

SCOPE OF WORK (SOW) BID PACKAGE W2-3 PRIDCO-FEMA-4339-DR-PR WEST REGION

I. Project Worksheet: #8329

a) Damage #21206

GENERAL INFORMATION:

- **Project Worksheet (PW):** 8329
- **Damage Information (DI):** 219206
- **PRIDCO Bldg. I.D.:** S056506201

GENERAL FACILITY INFORMATION:

- **Facility Type:** Building
- **Building Type:** Warehouse
- **Facility:** PRIDCO Building ID -S-0565-5-62-01
- **Facility Description:** Industrial building used (leased) for manufacturing and commercial activities. One story building, with main structure components (beams, columns ground slabs and foundation) comprised of reinforced concrete and concrete masonry Units (CMU). Roof structure composed of precast concrete beams with precast concrete roof deck planks (Rigid Fiber Dyne) with built-up roofing material. The building was constructed in 1962 and has approximate roof dimensions of 203FT x 79FT, 35FT x 5FT; [20FT x 12FT, 30FT x 12FT] (restroom unit roofs) for an approximate total roof area of 18,422SF.
- **Year Built:** 1962
- **Location Description:** PR-106 km 1.0 Mayaguez Arriba Ward; Mayaguez, PR
- **GPS Latitude/Longitude:** 18.20734, -67.12810
- **Number of Stories:** 1
- **Actual Tenants:** PRAMA, CORP. (PUERTO RICO APPAREL MFG., INC.)

GENERAL DAMAGE INFORMATION:

- **Date Damaged:** 9/20/2017.
- **Cause of Damage:** Wind driven rain, high winds & wind-blown debris

SCOPE OF WORK:

Below is a general description of the scope of work (SOW) related to the repairs of the PRIDCO Industrial Building Facilities. Scope of work and their respective descriptions, subdivided into Public Assistance (PA), Hazard Mitigation (HM) and additional works:

Public Assistance (PA) – work to be performed:

- 1) **Remove & Replace Waterproofing Membrane. (18,422 SF)**

Roof, 18,422 SF of Waterproofing Membrane, 2-Ply Styrene butadienne Styrene (SBS) Modified Bituminous composite reinforced roofing system, damaged by high winds and winds driven rain damaged the roof waterproofing membrane and ripped off some areas.

NOTES:

- I. Remove & Replace Waterproofing Membrane.*
- II. See A/E design drawing sheet Bid Set: A-1.1, A2.1*

2) Remove and replace (3) EA

Building Exterior, 3 each of Exhaust Fan, aluminum roof fan extractor cap w/ gravity self-acting back draft damper face-flush install, 36in Fan Size, 1-HP Motor, high wind ripped off and dislodged three exhaust fan covers.

Notes:

- I. This item includes removal, disposal, and replace existing damaged material, according to applicable codes, and PRIDCO standards.*
- II. See A/E design drawing sheet Bid Set: A-1.1, A2.1 Detail 1*

3) Install new aluminum flashing (662 LF).

Building Exterior, 662 LF long x 1.5 FT wide Aluminum Flashing, J - channel drip edge, 0.32ga.

NOTES:

- I. This item includes a new aluminum flashing, according to applicable codes, and PRIDCO standards.*
- II. See A/E design drawing sheet Bid Set: A1.1, A-2.1*

Hazard Mitigation (HM) – work to be performed:

1) Additional Membrane to Build up Roof (18,422 SF)

Add 18,422 SF of 1 ply of SBS modified bituminous membrane, heavyweight base sheet, 120 to 149 mil thick - to absorb energy from flying debris and protect roof membranes below.

NOTES:

- I. This item includes removal, disposal, and replace existing damaged material, according to applicable codes, and PRIDCO standards.*
- II. See A/E design drawing sheet Bid Set: A1.1, A-2.1*

2) Install anchoring system to (3) Roof Ventilators

Add anchoring system Rooftop Equipment - 3' x 3' x 3' for three (3) Exhaust Fans.unit that will resist expected wind pressure during a similar event to prevent them from being overturned and damaged.

NOTES:

- I. This item includes removal, disposal, and replace existing damaged material, according to applicable codes, and PRIDCO standards.*
- II. See A/E design drawing sheet Bid Set: A1.1, A-2.1 Details 1 & 2*

Additional Work Description – work to be performed:

1) Remove and replace (1) EA

Building Exterior, 1 each of Exhaust Fan, aluminum roof fan extractor cap w/ gravity selfacting back draft damper face-flush install, 36in Fan Size, 1-HP Motor, high wind ripped off and dislodged three exhaust fan covers.

Notes:

- I. This item includes removal, disposal, and replace existing damaged material, according to applicable codes, and PRIDCO standards.*
- II. See A/E design drawing sheet Bid Set: A-1.1, A2.1 Detail 1*

2) Install anchoring system to (2) Roof Ventilators

Add anchoring system Rooftop Equipment - 3' x 3' x 3' for three (2) Exhaust Fans.unit that will resist expected wind pressure during a similar event to prevent them from being overturned and damaged.

NOTES:

- I. This item includes removal, disposal, and replace existing damaged material, according to applicable codes, and PRIDCO standards.*
- II. See A/E design drawing sheet Bid Set: A1.1, A-2.1 Details 1 & 2*

Environmental Historical Preservation (EHP) Conditions:

- *Any change to the approved scope of work will require re-evaluation for compliance with NEPA and other Laws and Executive Orders.*
- *This review does not address all federal, state and local requirements. Acceptance of federal funding requires recipients to comply with all federal, state and local laws. Failure to obtain all appropriate federal, state and local environmental permits and clearances may jeopardize funding.*
- *If ground disturbing activities occur during construction, applicant will monitor ground disturbance and if any potential archaeological resources are discovered, will immediately cease construction in that area and notify the State and FEMA.*
- *Endangered Species Act (ESA) Conditions for Epicrates Inornatus (Puerto Rican Boa): 1. Inform all personnel about the potential presence of the PR boa and the VI boa in areas where the proposed work will be conducted. Photographs of the PR and VI Boa are to be prominently displayed at the site. The recipient must ensure that project personnel is able to correctly identify a PR or VI boa. For information on PR boa, please visit: <https://ecos.fws.gov/ecp/species/6628>. 2. Prior to any construction activity, including removal of vegetation and earth movement, the boundaries of the project area must be delineated, buffer zones, and areas to be excluded and protected, should be clearly marked in the project plan and in the field to avoid further habitat degradation into forested areas. Once areas are clearly marked, and prior to any construction activity, including site preparation, project personnel able to correctly identify a PR or VI boa must survey the areas to be cleared to ensure that no boas are present within the work area. Vehicle and equipment operation must remain on designated access roads/paths and within rights-of way. 3. If a PR boa is found within any of the working or construction areas, activities should stop in the area where the boa was found. Do not capture the boa. If boas need to be moved out of harm's way, project personnel designated by the recipient shall immediately contact the Puerto Rico Department of Natural and Environmental Resources (PRDNER) Rangers for safe capture and relocation of the animal (PRDNER phone #s: 787- 724-5700, 787-230-5550, 787-771-1124). If immediate relocation is not an option, project-related activities at this area must stop until the boa moves out of harm's way on its own. Activities at other work sites, where no boas have been found after surveying the area, may continue. 4. Measures should be taken to avoid and minimize PR boa casualties by heavy machinery or motor vehicles being used on site. Any heavy machinery left on site (staging) or near potential PR boa habitat (within 50 meters of potential boa habitat), needs to be thoroughly inspected each morning before work starts to ensure that no boas have sheltered within engine compartments or other areas of the equipment. If PR boas are found within vehicles or equipment, do not capture the animal and let it move on its own or call PRDNER Rangers for safe capture and relocation of the boa (PRDNER phone #s: 787-724-5700, 787-230-5550, 787-771-1124). If not possible, the animal should be left alone until it leaves the vehicle on its own. 5. PR boas may seek shelter in debris piles. Measures should be taken to avoid and minimize boa casualties*

associated with sheltering in debris piles as a result of project activities. Debris piles should be placed far away from forested areas. Prior to moving, disposing or shredding, debris piles should be carefully inspected for the presence of boas. If PR boas are found within debris piles, do not capture the animal and let it move on its own or call PRDNER Rangers for safe capture and relocation of the animal. If debris piles will be left on site, we recommend they be placed in areas that will not be disturbed in the future. 6. For all boa sightings (dead or alive), personnel designated by the recipient must record the time and date of the sighting and the specific location where the boa was found. Data should also include a photo of the animal dead or alive, and site GPS coordinates, and comments on how the animal was detected and its behavior. If the PR boa was accidentally killed as part of the project actions, please include information on what conservation measures had been implemented and what actions will be taken to avoid further killings. All boa sighting reports should be sent to the USFWS Caribbean Ecological Services Field Office, Marelisa Rivera - Deputy Field Supervisor, 787-851-7297 extension 206, 787-510-5207, marelisa_rivera@fws.gov. For Virgin Islands Boas in St. Thomas and Steven's Cay US Virgin Islands (VI boas have not been reported on St. Croix or St. John): 7. Follow the same guidance above but contact the VI Division of Fish and Wildlife (VIDFW), for technical assistance (340-775-6762) and capture of any VI boas. For information on USVI boa, please visit: <https://ecos.fws.gov/ecp/species/3247> b. The VIDFW has developed site-specific VI boa protocol; Applicants will be responsible for executing conservation measures recommended by VIDFW. Final project report to be submitted to USFWS. The Applicant must provide documentation at close-out that proves the completion of required Conservation Measures.

- *Resource Conservation and Recovery Act, aka Solid Waste Disposal Act (RCRA) Conditions: 1. The Applicant shall handle, manage, and dispose of all solid and hazardous waste in accordance with requirements of local, state, and federal laws, regulations, and ordinances. In addition, the Applicant shall ensure that all debris is separated and disposed of in a manner consistent with the JCA/EQB guidelines at a permitted site or landfill. 2. For asbestos containing material and lead base paint the Applicant shall handle, manage, and dispose of all solid and hazardous waste in accordance with requirements of local, state, and federal laws, regulations, and ordinances. In addition, the Applicant shall ensure that all debris is separated and disposed of in a manner consistent with the DNER/EQB guidelines at a permitted site or landfill or provide evidence of the close out permit from DNER/EQB for activities of remediation, abatement or removal of those materials. 3. Unusable equipment, debris, white goods, scrap metal any other material shall be disposed in approved manner and location. In the event significant items are discovered during the implementation or development of the project the Applicant shall handle, manage and dispose petroleum products, hazardous materials and toxic waste in accordance to the requirements of the local and federal agencies. Noncompliance with these requirements may jeopardize receipt of federal funds.*

b. Damage #219208

GENERAL INFORMATION:

- **Project Worksheet (P/W):** 8329
- **Damage Information (DI):** 219208
- **PRIDCO Bldg. I.D.:** S060206300

GENERAL FACILITY INFORMATION:

- **Facility Type:** Building
- **Building Type:** Warehouse Facility: PRIDCO Building ID -S-0602-2-63-00 & Extension
- **Facility Description:** Industrial building used (leased) for manufacturing and commercial activities. One story building, with main structure components (beams, columns ground slabs and foundation) comprised of reinforced concrete and concrete masonry Units (CMU). Roof structure composed of precast concrete beams with precast concrete roof deck planks (PORETE) with built-up roofing material. The building was constructed in 1963 and has approximate roof dimensions of 122FT x 94FT, 120FT x 93FT, (2) 30FT x 11FT, 18FT x 9FT, an additional area of 3,350SF for an approximate total roof area of 26,488SF.
- **Year Built:** 1963
- **Location Description:** PR-106 km 1.0 Mayaguez Arriba Ward; Mayaguez, PR
- **GPS Latitude/Longitude:** 18.20705, -67.12818
- **Number of Stories:** 1
- **Actual Tenants:** PRAMA, CORP. (PUERTO RICO APPAREL MFG., INC.)

GENERAL DAMAGE INFORMATION:

- **Date Damaged:** 9/20/2017.
- **Cause of Damage:** Wind Driven Rain, High Winds & Wind-Blown Debris

SCOPE OF WORK:

Below is a general description of the scope of work (SOW) related to the repair of the PRIDCO building facilities. Scope of work and their respective descriptions subdivided into Public Assistance (PA), Hazard Mitigation (HM) and additional work:

Public Assistance (PA) – work to be performed:

1) Remove & replace waterproofing membrane (26,488 SF).

Building Exterior, 26,488 SF Waterproofing Membrane, 2-Ply Styrene butadiene Styrene (SBS) Modified Bituminous composite reinforced roofing system; High wind and wind driven rain damaged the roof waterproofing membrane and ripped off some areas

NOTES:

- I. This item includes removal, disposal, and replace existing damaged material, according to applicable codes, and PRIDCO standards.*
- II. See A/E design drawing sheet Bid Set: A-1.1, A2.2*

2) Remove and replace (1) EA

Building Exterior, 1 each of Exhaust Fan, aluminum roof fan extractor cap w/ gravity self-acting back draft damper face-flush install, 36in Fan Size, 1-HP Motor, high wind ripped off and dislodged three exhaust fan covers.

Notes:

- I. This item includes removal, disposal, and replace existing damaged material, according to applicable codes, and PRIDCO standards.*
- II. See A/E design drawing sheet Bid Set: A-1.1, A2.2 Detail 1*

3) Install new aluminum flashing (858 LF).

Building Exterior, 858 LF long x 1.5 FT wide Aluminum Flashing, J - channel drip edge, 0.32ga.

NOTES:

- I. This item includes a new aluminum flashing, according to applicable codes, and PRIDCO standards.*
- II. See A/E design drawing sheet Bid Set: A1.1, A-2.2*

4) Remove & replace existing chain link fence. (30 LF).

Exterior Site, Perimeter Fence, 30 LF chain link, galv. Ga. No. 9, post - 2-½" inch diam galv., 3-strands barbed wire (4-point), strong winds, windblown debris and fallen trees impacted the fence resulting in irreparable damages and need replacement.

NOTES:

- I. This item includes removal, disposal, and replace existing damaged material, according to applicable codes, and PRIDCO standards.*
- II. See A/E design drawing sheet Bid Set: A-1.1 & A-2.1*

Hazard Mitigation (HM) – work to be performed:

1) Additional Membrane to Build up Roof (26,488 SF)

Add 26,488 SF of 1 ply of SBS modified bituminous membrane, heavyweight base sheet, 120 to 149 mil thick - to absorb energy from flying debris and protect roof membranes below.

NOTES:

- I. This item includes removal, disposal, and replace existing damaged material, according to applicable codes, and PRIDCO standards.*
- II. See A/E design drawing sheet Bid Set: A1.1, A-2.2*

2) Install anchoring system to (3) Roof Ventilators

Add anchoring system Rooftop Equipment - 3' x 3' x 3' for three (3) Exhaust Fan Unit that will resist expected wind pressure during a similar event to prevent them from being overturned and damaged.

NOTES:

- I. This item includes removal, disposal, and replace existing damaged material, according to applicable codes, and PRIDCO standards.*
- II. See A/E design drawing sheet Bid Set: A1.1, A-2.2 Details 1 & 2*

Additional Work Description – work to be performed:

1) Install 1/4" ø stainless steel cables attached to existing roof curb to anchor the exhaust fan. (1 EA).

Exhaust fan anchoring system, 1 Set, 4' W X 4'L top of cap height from vent curb is 51 inches.

It was observed during inspection that the exhaust fan is not anchored to the roof, the installation of an anchoring system is recommended. It is recommended the installation of a 1/4" diameter stainless steel anchoring system for the exhaust fan cap, attached to the existing roof curb to prevent future damages in similar events.

NOTES:

- I. This item includes adding an anchoring system for each unit, according to applicable codes, and PRIDCO standards.*
- II. See A/E design drawing sheet Bid Set: A-2.2 - Detail 1 & 2*

2) Remove and replace (1) EA

Building Exterior, 1 each of Exhaust Fan, aluminum roof fan extractor cap w/ gravity self-acting back draft damper face-flush install, 36in Fan Size, 1-HP Motor, high wind ripped off and dislodged three exhaust fan covers.

Notes:

- I. This item includes removal, disposal, and replace existing damaged material, according to applicable codes, and PRIDCO standards.*
- II. See A/E design drawing sheet Bid Set: A-1.1, A2.2*

3) Remove & replace existing chain link fence. (70 LF).

Exterior Site, Perimeter Fence, 70 LF chain link, galv. Ga. No. 9, post - 2-½" inch diam x 6' High galv., 3-strands barbed wire (4-point), strong winds, windblown debris and fallen trees impacted the fence resulting in irreparable damages and need replacement.

NOTES:

- I. This item includes removal, disposal, and replace existing damaged material, according to applicable codes, and PRIDCO standards.*
- II. See A/E design drawing sheet Bid Set: A-1.1 & A-2.1*

4) Tree removal and/or pruning, 2 each.

It was observed during inspection that a section of the existing perimeter fence was damaged by a fallen tree. It is recommended the pruning and/or removal, including the disposal of the fallen and remaining trees near the existing fence to prevent future damage in similar events is recommended.

NOTES:

- I. This item includes disposal according to applicable codes, and PRIDCO standards.*
- II. Obtain DRNA permits as required.*

Environmental Historical Preservation (EHP) Conditions:

- *Any change to the approved scope of work will require re-evaluation for compliance with NEPA and other Laws and Executive Orders.*
- *This review does not address all federal, state and local requirements. Acceptance of federal funding requires recipients to comply with all federal, state and local laws. Failure to obtain all appropriate federal, state and local environmental permits and clearances may jeopardize funding.*
- *If ground disturbing activities occur during construction, applicant will monitor ground disturbance and if any potential archaeological resources are discovered, will immediately cease construction in that area and notify the State and FEMA.*
- *Endangered Species Act (ESA) Conditions for Epicrates Inornatus (Puerto Rican Boa): 1. Inform all personnel about the potential presence of the PR boa and the VI boa in areas where the proposed work will be conducted. Photographs of the PR and VI Boa are to be prominently displayed at the site. The recipient must ensure that project personnel is able to correctly identify a PR or VI boa. For information on PR boa, please visit: <https://ecos.fws.gov/ecp/species/6628>. 2. Prior to any construction activity, including removal of vegetation and earth movement, the boundaries of the project area must be delineated, buffer zones, and areas to be excluded and protected, should be clearly marked in the project plan and in the field to avoid further habitat degradation into forested areas. Once areas are clearly marked, and prior to any construction activity, including site preparation, project personnel able to correctly identify a PR or VI boa must survey the areas to be cleared to ensure that no boas are present within the work area. Vehicle and equipment operation must remain on designated access roads/paths and within rights-of way. 3. If a PR boa is found within any of the working or construction areas, activities should stop in the area where the boa was found. Do not capture the boa. If boas need to be moved out of harm's way, project personnel designated by the recipient shall immediately contact the Puerto Rico Department of Natural and Environmental Resources (PRDNER) Rangers for safe capture and relocation of the animal (PRDNER phone #s: 787- 724-5700, 787-230-5550, 787-771-1124). If immediate relocation is not an option, project-related activities at this area must stop until the boa moves out of harm's way on its own. Activities at other work sites, where no boas have been found after surveying the area, may continue. 4. Measures should be taken to avoid and minimize PR boa casualties by heavy machinery or motor vehicles being used on site. Any heavy machinery left on site (staging) or near potential PR boa habitat (within 50 meters of potential boa habitat), needs to be thoroughly inspected each morning before work starts to ensure that no boas have sheltered within engine compartments or other areas of the equipment. If PR boas are found within vehicles or equipment, do not capture the animal and let it move on its own or call PRDNER Rangers for safe capture and relocation of the boa (PRDNER phone #s: 787-724-5700, 787-230-5550, 787-771-1124). If not possible, the animal should be left alone until it leaves the vehicle on its own. 5. PR boas may seek shelter in debris piles. Measures should be taken to avoid and minimize boa casualties*

associated with sheltering in debris piles as a result of project activities. Debris piles should be placed far away from forested areas. Prior to moving, disposing or shredding, debris piles should be carefully inspected for the presence of boas. If PR boas are found within debris piles, do not capture the animal and let it move on its own or call PRDNER Rangers for safe capture and relocation of the animal. If debris piles will be left on site, we recommend they be placed in areas that will not be disturbed in the future. 6. For all boa sightings (dead or alive), personnel designated by the recipient must record the time and date of the sighting and the specific location where the boa was found. Data should also include a photo of the animal dead or alive, and site GPS coordinates, and comments on how the animal was detected and its behavior. If the PR boa was accidentally killed as part of the project actions, please include information on what conservation measures had been implemented and what actions will be taken to avoid further killings. All boa sighting reports should be sent to the USFWS Caribbean Ecological Services Field Office, Marelisa Rivera - Deputy Field Supervisor, 787-851-7297 extension 206, 787-510-5207, marelisa_rivera@fws.gov. For Virgin Islands Boas in St. Thomas and Steven's Cay US Virgin Islands (VI boas have not been reported on St. Croix or St. John): 7. Follow the same guidance above but contact the VI Division of Fish and Wildlife (VIDFW), for technical assistance (340-775-6762) and capture of any VI boas. For information on USVI boa, please visit: <https://ecos.fws.gov/ecp/species/3247> b. The VIDFW has developed site-specific VI boa protocol; Applicants will be responsible for executing conservation measures recommended by VIDFW. Final project report to be submitted to USFWS. The Applicant must provide documentation at close-out that proves the completion of required Conservation Measures.

- Resource Conservation and Recovery Act, aka Solid Waste Disposal Act (RCRA) Conditions: 1. The Applicant shall handle, manage, and dispose of all solid and hazardous waste in accordance with requirements of local, state, and federal laws, regulations, and ordinances. In addition, the Applicant shall ensure that all debris is separated and disposed of in a manner consistent with the JCA/EQB guidelines at a permitted site or landfill. 2. For asbestos containing material and lead base paint the Applicant shall handle, manage, and dispose of all solid and hazardous waste in accordance with requirements of local, state, and federal laws, regulations, and ordinances. In addition, the Applicant shall ensure that all debris is separated and disposed of in a manner consistent with the DNER/EQB guidelines at a permitted site or landfill or provide evidence of the close out permit from DNER/EQB for activities of remediation, abatement or removal of those materials. 3. Unusable equipment, debris, white goods, scrap metal any other material shall be disposed in approved manner and location. In the event significant items are discovered during the implementation or development of the project the Applicant shall handle, manage and dispose petroleum products, hazardous materials and toxic waste in accordance to the requirements of the local and federal agencies. Noncompliance with these requirements may jeopardize receipt of federal funds.*

c. Damage #219224

GENERAL INFORMATION:

- **Project Worksheet (P/W):** 8329
- **Damage Information (DI):** 219224
- **PRIDCO Bldg. I.D.:** T033405600

GENERAL FACILITY INFORMATION:

- **Facility Type:** Building
- **Building Type:** Warehouse
- **Facility:** PRIDCO Building ID - T-0334-56
- **Facility Description:** Industrial building used (leased) for manufacturing and commercial activities. One story building, with main structure components (beams, columns ground slabs and foundation) comprised of reinforced concrete and concrete masonry Units (CMU). Roof structure composed of precast concrete beams with precast concrete roof deck planks (PORETE) with built-up roofing material. The building was constructed in 1956 and has approximate roof dimensions of 93FT x 120FT+ 93FT x 3FT; (1)- [11FT x 30FT] (restroom unit roofs) for an approximate total roof area of 11,769SF.
- **Year Built:** 1956
- **Location Description:** Mayaguez, PR 3 of 25 Date Downloaded: 6/24/22 9:33am AST
- **GPS Latitude/Longitude:** 18.18008, -67.14706
- **Number of Stories:** 1
- **Actual Tenants:** CORP DE PR DIFUSION PUBLICA

GENERAL DAMAGE INFORMATION:

- **Date Damaged:** 9/20/2017.
- **Cause of Damage:** Wind Driven Rain, High Winds & Wind-Blown Debris

SCOPE OF WORK:

Below is a general description of the scope of work (SOW) related to the repair of the PRIDCO building facilities. Scope of work and their respective descriptions subdivided into Public Assistance (PA), Hazard Mitigation (HM) and additional work:

Public Assistance (PA) – work to be performed:

1) Remove & replace existing chain link fence. (80 LF).

Exterior Site, Perimeter Fence, 80 LF chain link, galv. Ga. No. 9, post - 2-½" inch diam x 6' High galv., 3-strands barbed wire (4-point), strong winds, windblown debris and fallen trees impacted the fence resulting in irreparable damages and need replacement.

NOTES:

- I. This item includes removal, disposal, and replace existing damaged material, according to applicable codes, and PRIDCO standards.*
- II. See A/E design drawing sheet Bid Set: A-1.1 & A-2.1*

Hazard Mitigation (HM) – work to be performed:

1) N/A

Additional Work Description – work to be performed:

1) Install 1/4" ø stainless steel cables attached to existing roof curb to anchor the exhaust fan. (2 EA).

NOTES:

- I. This item includes add an anchoring system for each unit, according to applicable codes, and PRIDCO standards.*
- II. See A/E design drawing sheet Bid Set: A-1.1, A2.2*

2) Tree removal and/or pruning, 2 each.

It was observed during inspection that a section of the existing perimeter fence was damaged by a fallen tree. It is recommended the pruning and/or removal, including the disposal of the fallen and remaining trees near the existing fence to prevent future damage in similar events is recommended.

NOTES:

- I. This item includes disposal according to applicable codes, and PRIDCO standards.*
- II. Obtain DRNA permits as required*

3) Install 1/4" ø stainless steel cables attached to existing roof curb to anchor the exhaust fan. (2 EA).

NOTES:

- I. This item includes add an anchoring system for each unit, according to applicable codes, and PRIDCO standards.*
- II. See A/E design drawing sheet Bid Set: A-1.1, A2.2*

Environmental Historical Preservation (EHP) Conditions:

- *Any change to the approved scope of work will require re-evaluation for compliance with NEPA and other Laws and Executive Orders.*
- *This review does not address all federal, state and local requirements. Acceptance of federal funding requires recipients to comply with all federal, state and local laws. Failure to obtain all appropriate federal, state and local environmental permits and clearances may jeopardize funding.*
- *If ground disturbing activities occur during construction, applicant will monitor ground disturbance and if any potential archaeological resources are discovered, will immediately cease construction in that area and notify the State and FEMA.*
- *Endangered Species Act (ESA) Conditions for Epicrates Inornatus (Puerto Rican Boa): 1. Inform all personnel about the potential presence of the PR boa and the VI boa in areas where the proposed work will be conducted. Photographs of the PR and VI Boa are to be prominently displayed at the site. The recipient must ensure that project personnel is able to correctly identify a PR or VI boa. For information on PR boa, please visit: <https://ecos.fws.gov/ecp/species/6628>. 2. Prior to any construction activity, including removal of vegetation and earth movement, the boundaries of the project area must be delineated, buffer zones, and areas to be excluded and protected, should be clearly marked in the project plan and in the field to avoid further habitat degradation into forested areas. Once areas are clearly marked, and prior to any construction activity, including site preparation, project personnel able to correctly identify a PR or VI boa must survey the areas to be cleared to ensure that no boas are present within the work area. Vehicle and equipment operation must remain on designated access roads/paths and within rights-of way. 3. If a PR boa is found within any of the working or construction areas, activities should stop in the area where the boa was found. Do not capture the boa. If boas need to be moved out of harm's way, project personnel designated by the recipient shall immediately contact the Puerto Rico Department of Natural and Environmental Resources (PRDNER) Rangers for safe capture and relocation of the animal (PRDNER phone #s: 787- 724-5700, 787-230-5550, 787-771-1124). If immediate relocation is not an option, project-related activities at this area must stop until the boa moves out of harm's way on its own. Activities at other work sites, where no boas have been found after surveying the area, may continue. 4. Measures should be taken to avoid and minimize PR boa casualties by heavy machinery or motor vehicles being used on site. Any heavy machinery left on site (staging) or near potential PR boa habitat (within 50 meters of potential boa habitat), needs to be thoroughly inspected each morning before work starts to ensure that no boas have sheltered within engine compartments or other areas of the equipment. If PR boas are found within vehicles or equipment, do not capture the animal and let it move on its own or call PRDNER Rangers for safe capture and relocation of the boa (PRDNER phone #s: 787-724-5700, 787-230-5550, 787-771-1124). If not possible, the animal should be left alone until it leaves the vehicle on its own. 5. PR boas may seek shelter in debris piles. Measures should be taken to avoid and minimize boa casualties*

associated with sheltering in debris piles as a result of project activities. Debris piles should be placed far away from forested areas. Prior to moving, disposing or shredding, debris piles should be carefully inspected for the presence of boas. If PR boas are found within debris piles, do not capture the animal and let it move on its own or call PRDNER Rangers for safe capture and relocation of the animal. If debris piles will be left on site, we recommend they be placed in areas that will not be disturbed in the future. 6. For all boa sightings (dead or alive), personnel designated by the recipient must record the time and date of the sighting and the specific location where the boa was found. Data should also include a photo of the animal dead or alive, and site GPS coordinates, and comments on how the animal was detected and its behavior. If the PR boa was accidentally killed as part of the project actions, please include information on what conservation measures had been implemented and what actions will be taken to avoid further killings. All boa sighting reports should be sent to the USFWS Caribbean Ecological Services Field Office, Marelisa Rivera - Deputy Field Supervisor, 787-851-7297 extension 206, 787-510-5207, marelisa_rivera@fws.gov. For Virgin Islands Boas in St. Thomas and Steven's Cay US Virgin Islands (VI boas have not been reported on St. Croix or St. John): 7. Follow the same guidance above but contact the VI Division of Fish and Wildlife (VIDFW), for technical assistance (340-775-6762) and capture of any VI boas. For information on USVI boa, please visit: <https://ecos.fws.gov/ecp/species/3247> b. The VIDFW has developed site-specific VI boa protocol; Applicants will be responsible for executing conservation measures recommended by VIDFW. Final project report to be submitted to USFWS. The Applicant must provide documentation at close-out that proves the completion of required Conservation Measures.

- *Resource Conservation and Recovery Act, aka Solid Waste Disposal Act (RCRA) Conditions: 1. The Applicant shall handle, manage, and dispose of all solid and hazardous waste in accordance with requirements of local, state, and federal laws, regulations, and ordinances. In addition, the Applicant shall ensure that all debris is separated and disposed of in a manner consistent with the JCA/EQB guidelines at a permitted site or landfill. 2. For asbestos containing material and lead base paint the Applicant shall handle, manage, and dispose of all solid and hazardous waste in accordance with requirements of local, state, and federal laws, regulations, and ordinances. In addition, the Applicant shall ensure that all debris is separated and disposed of in a manner consistent with the DNER/EQB guidelines at a permitted site or landfill or provide evidence of the close out permit from DNER/EQB for activities of remediation, abatement or removal of those materials. 3. Unusable equipment, debris, white goods, scrap metal any other material shall be disposed in approved manner and location. In the event significant items are discovered during the implementation or development of the project the Applicant shall handle, manage and dispose petroleum products, hazardous materials and toxic waste in accordance to the requirements of the local and federal agencies. Noncompliance with these requirements may jeopardize receipt of federal funds.*

d) Damage #219232

GENERAL INFORMATION:

- **Project Worksheet (PW):** 8329
- **Damage Information (DI):** 219232
- **PRIDCO Bldg. I.D.:** T050906100

GENERAL FACILITY INFORMATION:

- **Facility Type:** Building
- **Building Type:** Warehouse
- **Facility:** PRIDCO Building ID -T-0509-9-61-00 & Extension
- **Facility Description:** Industrial building used (leased) for manufacturing and commercial activities. One story building, with main structure components (beams, columns ground slabs and foundation) comprised of reinforced concrete and concrete masonry Units (CMU). Roof structure composed of precast concrete beams with precast concrete roof deck planks (PORETE) with built-up roofing material. The building was constructed in 1961 and has approximate roof dimensions of 196FT x 95FT; [31FT x 11FT] (restroom unit roofs) for an approximate total roof area of 18,961SF.
- **Year Built:** 1961
- **Location Description:** PR-106 km 1.0 Mayaguez Arriba Ward, Mayaguez, PR
- **GPS Latitude/Longitude:** 18.20777, -67.12738
- **Number of Stories:** 1
- **Actual Tenants:** PRAMA, CORP. (PUERTO RICO APPAREL MFG., INC.)

GENERAL DAMAGE INFORMATION:

- **Date Damaged:** 9/20/2017.
- **Cause of Damage:** Wind Driven Rain, High Winds & Wind-Blown Debris

SCOPE OF WORK:

Below is a general description of the scope of work (SOW) related to the repair of the PRIDCO building facilities. Scope of work and their respective descriptions subdivided into Public Assistance (PA), Hazard Mitigation (HM) and additional work:

Public Assistance (PA) – work to be performed:

1) Remove and replace (1) EA

Building Exterior, 1 each of Exhaust Fan, aluminum roof fan extractor cap w/ gravity self acting back draft damper face-flush install, 36in Fan Size, 1-HP Motor, 4'-6" W x

4'-6" L the top of cap height from vent curb is 48 inches. High wind ripped off and dislodged three exhaust fan covers.

Notes:

- I. This item includes removal, disposal, and replace existing damaged material, according to applicable codes, and PRIDCO standards.*
- II. See A/E design drawing sheet Bid Set: A-1.1, A2.2 Detail 1*

2) Install new aluminum flashing (586 LF).

Building Exterior, 586 LF long x 1.5 FT wide Aluminum Flashing, J - channel drip edge, 0.32ga.

NOTES:

- I. This item includes a new aluminum flashing, according to applicable codes, and PRIDCO standards.*
- II. See A/E design drawing sheet Bid Set: A1.1, A-2.2*

3) Remove & replace waterproofing membrane (18,961 SF).

Building Exterior, 18,961 SF Waterproofing Membrane, 2-Ply Styrene butadiene Styrene (SBS) Modified Bituminous composite reinforced roofing system; High wind and wind driven rain damaged the roof waterproofing membrane and ripped off some areas

NOTES:

- I. This item includes removal, disposal, and replace existing damaged material, according to applicable codes, and PRIDCO standards.*
- II. See A/E design drawing sheet Bid Set: A-1.1, A2.2*

4) Remove & replace existing chain link fence. (90 LF).

Exterior Site, Perimeter Fence, 90 LF chain link, galv. Ga. No. 9, post - 2-1/2" inch diam x 6' High galv., 3-strands barbed wire (4-point), strong winds, windblown debris and fallen trees impacted the fence resulting in irreparable damages and need replacement.

NOTES:

- I. This item includes removal, disposal, and replace existing damaged material, according to applicable codes, and PRIDCO standards.*
- II. See A/E design drawing sheet Bid Set: A-1.1 & A-2.1*

Hazard Mitigation (HM) – work to be performed:

- 1) Install 1/4" ø stainless steel cables attached to existing roof curb to anchor the exhaust fan. (1 EA).**

Exhaust fan anchoring system, 1 Set, 4'-6" W x 4'-6" L top of cap height from vent curb is 48 inches.

It was observed during inspection that the exhaust fan is not anchored to the roof, the installation of an anchoring system is recommended. It is recommended the installation of a 1/4" diameter stainless steel anchoring system for the exhaust fan cap, attached to the existing roof curb to prevent future damages in similar events.

NOTES:

- I. This item includes adding an anchoring system for each unit, according to applicable codes, and PRIDCO standards.*
- II. See A/E design drawing sheet Bid Set: A-1.1, A-2.2 - Detail 1 & 2*

2) Additional Membrane to Build up Roof (18,961 SF)

Add 18,961 SF of 1 ply of SBS modified bituminous membrane, heavyweight base sheet, 120 to 149 mil thick - to absorb energy from flying debris and protect roof membranes below.

NOTES:

- I. This item includes removal, disposal, and replace existing damaged material, according to applicable codes, and PRIDCO standards.*
- II. See A/E design drawing sheet Bid Set: A1.1, A-2.2*

Additional Work Description – work to be performed:

1) Remove and replace (2) EA

Building Exterior, 2 each of Exhaust Fan, aluminum roof fan extractor cap w/ gravity self-acting back draft damper face-flush install, 36in Fan Size, 1-HP Motor, high wind ripped off and dislodged three exhaust fan covers.

Notes:

- I. This item includes removal, disposal, and replace existing damaged material, according to applicable codes, and PRIDCO standards.*
- II. See A/E design drawing sheet Bid Set: A-1.1, A2.2 Detail 1*

2) Install 1/4" ø stainless steel cables attached to existing roof curb to anchor the exhaust fan cap. (2 EA). 4'-6" W x 4'-6" L top of cap height from vent curb is 48 inches.

NOTES:

- I. This item includes add an anchoring system for each unit, according to applicable codes, and PRIDCO standards.*
- II. See A/E design drawing sheet Bid Set: A-1.1, A-2.2 Details 1 & 2*

3) Remove & replace existing chain link fence. (70 LF).

Exterior Site, Perimeter Fence, 70 LF chain link, galv. Ga. No. 9, post - 2-½" inch diam x 6' High galv., 3-strands barbed wire (4-point), strong winds, windblown debris and fallen trees impacted the fence resulting in irreparable damages and need replacement.

NOTES:

- I. This item includes removal, disposal, and replace existing damaged material, according to applicable codes, and PRIDCO standards.*
- II. See A/E design drawing sheet Bid Set: A-1.1 & A-2.1*

4) Install new aluminum flashing (77 LF).

Building Exterior, 77 LF long x 1.5 FT wide Aluminum Flashing, J - channel drip edge, 0.32ga.

NOTES:

- I. This item includes a new aluminum flashing, according to applicable codes, and PRIDCO standards.*
- II. See A/E design drawing sheet Bid Set: A1.1, A-2.2*

Environmental Historical Preservation (EHP) Conditions:

- Any change to the approved scope of work will require re-evaluation for compliance with NEPA and other Laws and Executive Orders.
- This review does not address all federal, state and local requirements. Acceptance of federal funding requires recipients to comply with all federal, state and local laws. Failure to obtain all appropriate federal, state and local environmental permits and clearances may jeopardize funding.
- If ground disturbing activities occur during construction, applicant will monitor ground disturbance and if any potential archaeological resources are discovered, will immediately cease construction in that area and notify the State and FEMA.
- Endangered Species Act (ESA) Conditions for *Epicrates Inornatus* (Puerto Rican Boa): 1. Inform all personnel about the potential presence of the PR boa and the VI boa in areas where the proposed work will be conducted. Photographs of the PR and VI Boa are to be prominently displayed at the site. The recipient must ensure that project personnel is able to correctly identify a PR or VI boa. For information on PR boa, please visit: <https://ecos.fws.gov/ecp/species/6628>. 2. Prior to any construction activity, including removal of vegetation and earth movement, the boundaries of the project area must be delineated, buffer zones, and areas to be excluded and protected, should be clearly marked in the project plan and in the field to avoid further habitat degradation into forested areas. Once areas are clearly marked, and prior to any construction activity, including site preparation, project personnel able to correctly identify a PR or VI boa must survey the areas to be cleared to ensure that no boas are present within the work area. Vehicle and equipment operation must remain on designated access roads/paths and within rights-of way. 3. If a PR boa is found within any of the working or construction areas, activities should stop in the area where the boa was found. Do not capture the boa. If boas need to be moved out of harm's way, project personnel designated by the recipient shall immediately contact the Puerto Rico Department of Natural and Environmental Resources (PRDNER) Rangers for safe capture and relocation of the animal (PRDNER phone #s: 787- 724-5700, 787-230-5550, 787-771-1124). If immediate relocation is not an option, project-related activities at this area must stop until the boa moves out of harm's way on its own. Activities at other work sites, where no boas have been found after surveying the area, may continue. 4. Measures should be taken to avoid and minimize PR boa casualties by heavy machinery or motor vehicles being used on site. Any heavy machinery left on site (staging) or near potential PR boa habitat (within 50 meters of potential boa habitat), needs to be thoroughly inspected each morning before work starts to ensure that no boas have sheltered within engine compartments or other areas of the equipment. If PR boas are found within vehicles or equipment, do not capture the animal and let it move on its own or call PRDNER Rangers for safe capture and relocation of the boa (PRDNER phone #s: 787-724-5700, 787-230-5550, 787-771-1124). If not possible, the animal should be left alone until it leaves the vehicle

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