

AMENDMENT OF SOLICITATION/MODIFICATION OF CONTRACT			1. CONTRACT ID CODE J	PAGE OF PAGES 1 38
2. AMENDMENT/MODIFICATION NO. 0002	3. EFFECTIVE DATE 13-Dec-2022	4. REQUISITION/PURCHASE REQ. NO.		5. PROJECT NO.(If applicable)
6. ISSUED BY USACE, KANSAS CITY + FEDERAL BLDG, CT-C + 601 E 12TH ST RM 647 KANSAS CITY MO 64106-2896	CODE W912DQ	7. ADMINISTERED BY (If other than item 6) See Item 6		
8. NAME AND ADDRESS OF CONTRACTOR (No., Street, County, State and Zip Code)		X	9A. AMENDMENT OF SOLICITATION NO. W912DQ23R1003	
		X	9B. DATED (SEE ITEM 11) 10-Nov-2022	
			10A. MOD. OF CONTRACT/ORDER NO.	
			10B. DATED (SEE ITEM 13)	
CODE	FACILITY CODE			
11. THIS ITEM ONLY APPLIES TO AMENDMENTS OF SOLICITATIONS				
<input checked="" type="checkbox"/> The above numbered solicitation is amended as set forth in Item 14. The hour and date specified for receipt of Offer <input checked="" type="checkbox"/> is extended, <input type="checkbox"/> is not extended. Offer must acknowledge receipt of this amendment prior to the hour and date specified in the solicitation or as amended by one of the following methods: (a) By completing Items 8 and 15, and returning <u>1</u> copies of the amendment; (b) By acknowledging receipt of this amendment on each copy of the offer submitted; or (c) By separate letter or telegram which includes a reference to the solicitation and amendment numbers. FAILURE OF YOUR ACKNOWLEDGMENT TO BE RECEIVED AT THE PLACE DESIGNATED FOR THE RECEIPT OF OFFERS PRIOR TO THE HOUR AND DATE SPECIFIED MAY RESULT IN REJECTION OF YOUR OFFER. If by virtue of this amendment you desire to change an offer already submitted, such change may be made by telegram or letter, provided each telegram or letter makes reference to the solicitation and this amendment, and is received prior to the opening hour and date specified.				
12. ACCOUNTING AND APPROPRIATION DATA (If required)				
13. THIS ITEM APPLIES ONLY TO MODIFICATIONS OF CONTRACT ORDERS. IT MODIFIES THE CONTRACT/ORDER NO. AS DESCRIBED IN ITEM 14.				
A. THIS CHANGE ORDER IS ISSUED PURSUANT TO: (Specify authority) THE CHANGES SET FORTH IN ITEM 14 ARE MADE IN THE CONTRACT ORDER NO. IN ITEM 10A.				
B. THE ABOVE NUMBERED CONTRACT/ORDER IS MODIFIED TO REFLECT THE ADMINISTRATIVE CHANGES (such as changes in paying office, appropriation date, etc.) SET FORTH IN ITEM 14, PURSUANT TO THE AUTHORITY OF FAR 43.103(B).				
C. THIS SUPPLEMENTAL AGREEMENT IS ENTERED INTO PURSUANT TO AUTHORITY OF:				
D. OTHER (Specify type of modification and authority)				
E. IMPORTANT: Contractor <input type="checkbox"/> is not, <input type="checkbox"/> is required to sign this document and return _____ copies to the issuing office.				
14. DESCRIPTION OF AMENDMENT/MODIFICATION (Organized by UCF section headings, including solicitation/contract subject matter where feasible.) The purpose of this amendment is to update the PWS and extend the due date to 4 January 2023.				
Except as provided herein, all terms and conditions of the document referenced in Item 9A or 10A, as heretofore changed, remains unchanged and in full force and effect.				
15A. NAME AND TITLE OF SIGNER (Type or print)		16A. NAME AND TITLE OF CONTRACTING OFFICER (Type or print)		
		TEL:	EMAIL:	
15B. CONTRACTOR/OFFEROR _____ (Signature of person authorized to sign)	15C. DATE SIGNED	16B. UNITED STATES OF AMERICA BY _____ (Signature of Contracting Officer)		16C. DATE SIGNED 13-Dec-2022

SECTION SF 30 BLOCK 14 CONTINUATION PAGE

SUMMARY OF CHANGES

SECTION 00 10 00 - SOLICITATION

The required response date/time has changed from 27-Dec-2022 02:00 PM to 04-Jan-2023 02:00 PM.

SECTION 01 00 00 - GENERAL REQUIREMENTS

The following have been added by full text:

STATEMENT OF WORK**SECTION 01 12 00**

Maintenance Building Roof Repair, Glasgow, Missouri – Glasgow Project Office

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DESCRIPTION OF WORK AND GENERAL REQUIREMENTS**Revision 01**

Deletions in the PWS will be **red** and have a **strike through**, and additions will be in **green**.

1. GENERAL:

1.1 Existing: The Glasgow Project Maintenance Building requires repair to the building's walls, roof, insulation, and electrical system.

1.2 Project Description and Location

1.2.1 Description of work: This work will include structure repairs, installation of an elastomeric roof coating, skylights panels, electrical service, distribution panel, windows, overhead doors, and entry doors. The Contractor shall provide all equipment, labor, supervision, and material necessary to complete the project.

1.2.2 Project Location: The work is located at the United States Army Corps of Engineers (USACE) maintenance facility at the Glasgow Project Office.

1.3 Location:

Glasgow Project Office
U.S. Army Corps of Engineers
401 Water Street,
Glasgow, MO 65254

1.4 Points of Contact:

James Campbell
james.d.campbell@usace.army.mil

kevin.w.pugh@usace.army.mil <mailto:john.p.pasa@usace.army.mil>
816-389-3680

Kevin Pugh

816-389-3811

1.5 Work Hours

The standard workday is 7:00 am to 5:00 pm Monday thru Friday, excluding Federal holidays. Work hours may be adjusted with approval of Contracting Officer Representative (COR) or Operations Project Manager. Any request for variation from these hours shall be coordinated with the COR at a minimum of 48 hours in advance.

1.6 Plans and Documentation

1.6.1 Contractor Daily Written and Photographic Documentation

Contractor shall submit daily logs of work conducted to the COR. Contractor may use their own form for documentation or forms can be provided at the contractor's request. Photos of all phases of the project are required and shall be submitted to COR in an agreed upon formatting upon job completion. Each photo shall have a time date stamp. It is recommended that daily logs are submitted daily.

The following information must be included:

Date	Equipment Used	Total hours worked that day
Contractor Name	Precipitation	Controversial Matters
Weather description	Methods Used	Miscellaneous Remarks
Air temperature	Work completed that day	
Size of crew	Problems encountered	

1.6.2 Insurance Requirements

The Contractor shall maintain the required insurance coverage throughout the duration of project.

1.6.3 Payment and Invoices:

Invoices shall be submitted upon completion of the work. Each line item on an invoice shall give a description including the Contract Line Item Number (CLIN). Upon receipt, the COR will certify that the requested amounts are appropriate before payment will be made. Invoices shall include all necessary information, including any necessary supporting documentation required as part of this Scope of Work. All invoices shall reflect the contract number, (Block 2 of the SF-1442).

1.6.4 Contractor Exposure Hours:

The Contractor shall track the number of man hours to perform the contract requirements. The total number of man hours per day shall be submitted to the Government with the invoice.

1.6.5 Red Lined Drawings

1.6.5.1 Shall include the identification of the work completed by the Contractor and shall be on one set of Contract Drawings provided to the Contractor at the onset of the project.

1.6.5.2 Drawings shall be kept on the project site, include all necessary information as outlined in the Scope of Work, be updated as the work is progresses and shall be clearly legible. All markings shall be either red or green. Red lines shall denote deletions and green lines shall denote additions.

1.7 Site Visit/Project Photos

Interested parties are strongly encouraged to visit the site prior to preparing and submitting their bid. Contractors are encouraged to attend the scheduled site visit on the solicitation prior to submitting an offer on this contract.

1.8 Occupancy of Premise

Before work is started, it is the contractor's responsibility to arrange with COR a sequence of procedure, means of access, space for storage of materials and equipment, and use of approaches, corridors and/or stairways.

1.9 Submittal Definitions

The Contractor is responsible for the requirements of this contract and is encouraged to review the document in detail and to provide inquiries to the Government as necessary prior to preparing a submittal.

1.9.1 Construction Process Plan

Construction Plan shall include all the following:

1.9.1.1 A plan which clearly indicates the areas of work and description of the work to be completed. This shall be completed in a work breakdown structure format. Examples might include processes for demolition, building repairs, roof coating, paint removal, doors and window replacement.

1.9.1.2 The construction process plan shall be submitted and approval prior to work being started.

1.9.2 Quality Control Plan (QCP)

The Contractor shall develop and maintain an effective quality control plan to ensure services are performed in accordance with this SOW. Contractor shall develop and implement procedures to identify, prevent, and ensure non-recurrence of defective services. The Contractor's quality control program is the means by which he assures himself that his work complies with the requirement of the contract. The QCP shall be submitted within 30 days after the contract has been awarded. After acceptance of the quality control plan the Contractor shall receive the contracting officer's acceptance in writing of any proposed change to his QC system.

Submit a detailed Contractor Quality Control (CQC) Plan that fully represents and conforms to the requirements of these specifications. At a minimum the CQC is to include the following:

1.9.2.1 Defined responsibilities of personnel that ensure the quality requirements for this contract are met. All responsibilities such as Superintendent, Site Safety and Health Officer (SSHO), and Quality Control Manager (QCM) shall be assigned to specific personnel and an alternate if the primary is not on-site. Individual(s) who will be onsite during construction operations and who will have the authority to act for the Contractor to include the authority to stop work which is not in compliance with the contract.

1.9.2.2 Role definitions

It is the decision of the Contractor on whether the following roles are the duties of a single individual or are assigned to multiple individuals. The Superintendent/ QCM/ SSHO shall meet the minimum requirements as stated in the EM385- 1-1. Duties shall include, but are not limited to, maintaining project status and communication with Government personnel, weekly progress reports including a weekly look ahead report. Coordination with the COR is critical for outages and equipment delivery. All personnel on site are required to have a photo ID on persons. The Government reserves the right to remove or reject personnel who do not meet qualifications or security requirements.

a. Superintendent is to direct the day-to-day operations on the construction site and control the short-term schedule as well as subcontractor coordination responsibilities.

b. Site Safety and Health Officer (SSHO) oversees inspecting site conditions to determine if hazards are present and has the authority to establish procedures and policies to overcome those hazardous situations.

c. Quality Control Manager (QCM) is responsible for managing and performing the daily QC responsibilities of the project to ensure the project is constructed in accordance with the established minimum standards. If minimal standards are not being met the QCM has the authority to implement changes to achieve those standards.

1.9.2.3 Submit a clearly defined proposed procedures for quality control, product sampling and testing as part of the plan.

1.9.2.4 Proposed methods for product performance controls, including method and frequency of product sampling and testing both in raw material form and cured product form. All costs associated with the testing laboratory work for quality assurance and quality control, as well as rework required to meet project requirements, shall be paid for by the contractor. No separate payment will be made for this work. It will be considered incidental to the work in which the material is utilized.

1.9.2.5 A scheduled performance and product test result review with the COR at a regularly scheduled progress meeting.

1.9.2.6 Inspection Forms and guidelines for quality control inspections in accordance with the standards specified in this Contract and submitted with the QCP.

1.9.2.7 Outline specific repair or replacement procedures for potential defects that occur within the installed system, following repair or replacement procedures that are compatible with the system being used. Submit Repair or Replacement Procedures must adhere to the product manufacturer's written specifications for repair or replacement.

1.9.2.8 Key personnel phone numbers including e-mails and all other staff shall be included within the QCP.

1.9.3 Contractor Experience and Qualifications:

A statement letter of the Contractor's experience on company letterhead.

The lead personnel including the project manager, and the foreman shall each have a minimum of three (3) years of experience and have demonstrated competency to perform within the specifications contained in this contract. The name and experience of each lead individual performing work on this contract shall be submitted with the Contractor Qualifications.

1.9.4 Project Schedule

Prior to any work being completed the Contractor shall submit a cost loaded project schedule for approval. The project schedule shall contain a chronological order of activities that progresses to project completion. Each activity shall have a duration with a proposed start and end date.

1.9.5 Accident Prevention Plan

Contractor shall prepare a site-specific Accident Prevention Plan (APP). Prepare the APP in accordance with the format and requirements of USACE EM 385-1-1. Cover all paragraph and subparagraph elements in USACE EM 385-1-1, Appendix A, "Minimum Basic Outline for Accident Prevention Plan". The APP shall be job-specific and address any unusual or unique aspects of the project or activity for which it is written.

1.9.6 Activity Hazard Analysis

An Activity Hazard Analysis must be provided prior to any construction activity. The Activity Hazard Analysis must address all foreseeable safety concerns including and not limited too; electrical safety, safety zone protection, fall protection, fire safety, personal protective equipment, signage/protective fencing, and hazardous material handling.

1.9.7 Demolition Plan

Prepare a Demolition Plan and submit proposed demolition, and removal procedures for approval before work is started. Include in the plan procedures for removal and disposition of materials. Take necessary

precautions to avoid damage to existing items to remain in place, to be reused, or to remain the property of the Government. Repair or replace damaged items as approved by the COR.

1.9.7.1 Waste Diversion and Recycling Plan:

Existing Metal panels, electrical equipment, doors, and windows shall be salvaged and recycled as scrap metal. Provide a salvage plan, listing materials to be salvaged, and their storage location. Store and protect salvaged materials and equipment until disposition.

1.9.8 Qualification of Installer

Roofing system applicator must be approved, authorized, or licensed in writing by the roof coating manufacturer and must have a minimum of 3 years' experience as an approved, authorized, or licensed applicator with that manufacturer and be approved at a level capable of providing the specified warranty.

1.9.9 Operation and Maintenance Data

Submit operations and maintenance data directly to the Government for the following items:

- 1.9.9.1 Safety precautions and hazards
- 1.9.9.2 Preventive maintenance plan, schedule, and procedures
- 1.9.9.3 Maintenance and repair procedures
- 1.9.9.4 Manufacturer's instructions
- 1.9.9.5 Parts identification
- 1.9.9.6 Testing equipment and special tool information
- 1.9.9.7 Manufacturer Warranty information
- 1.9.9.8 Testing and performance data

1.9.10 Work Schedule

Schedule: Before the start of work, the Contractor shall coordinate for approval a schedule that includes the following as a minimum:

- 1.9.10.1 Mobilization
- 1.9.10.2 Submission of Preconstruction Submittals (Insurance, AHA, APP, QC Plan)
- 1.9.10.3 Submission of any Preconstruction Technical submittals of products furnished by the Contractor.
- 1.9.10.4 Schedule with the Cost for each Activity.
- 1.9.10.5 Walk through and inspection prior to final acceptance
- 1.9.10.6 Electrical testing results provided for each circuit.
- 1.9.10.7 Final acceptance of work

1.10 Submittals

The Contractor shall provide to the Government the submittals identified within this contract and submittals that are identified as necessary to ensure performance compliance. Once submittals are received the government has 10 working days for review and acceptance. All submittals except for post construction are required prior to construction commencing.

The Government will respond to the Contractor's submittals with email, fax, or postal mail per the Contractor's requested preference to the Government. The Government's approval of submittals shall not be construed as a complete check of the contract requirements. Government approval will be an indication of a satisfactory submittal of the general method of compliance with the requirements of the contract. Government approval will not relieve the Contractor of the responsibility for contract compliance.

Government disapproved submittals shall be resubmitted by the Contractor addressing corrections and contract compliance. At the discretion of the Government, the Contractor may be directed by the Government to proceed with work in advance the submittals; however, the Contractor shall practice due diligence and continuity with the submittal process. Each submittal shall be attached to a USACE provided form 4025 and emailed to the primary contact contained in Section 1.4. One copy of each submittal shall be provided as follows:

1.10.1 Preconstruction Submittals

1.10.1.1	Construction Process Plan
1.10.1.2	Material, Delivery, Storage and Placement Plan
1.10.1.3	Disposal of Materials Plan
1.10.1.4	Quality Control Plan
1.10.1.5	Daily Log Format
1.10.1.6	Project Schedule
1.10.1.7	Activity Hazard Analysis
1.10.1.8	Accident Prevention Plan
1.10.1.9	Lead Based Paint Management Plan
1.10.1.10	Insurance
1.10.1.11	Schedule
1.10.1.11	Pre-Project Certification of Blood/Lead Levels
1.10.1.12	Manufacturer Certified Installer Certificate
1.10.1.13	Waste Diversion and Recycling Plan
1.10.1.14	Occupant Protection Plan
1.10.1.15	Occupational and Environmental Assessment Data Report

1.10.2 Shop Drawings

1.10.2.1	Detail Drawings – Electrical System Distribution
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1.10.3 Material Submittals

1.10.3.1	Roof Coating System: primer, basecoat, topcoat with color chart
1.10.3.2	Sheet Metal Panel Specifications
1.10.3.3	Fiberglass Panel Specifications
1.10.3.4	Insulation Specifications
1.10.3.5	Meter Socket Specifications
1.10.3.6	Disconnect Specifications
1.10.3.7	Distribution Panel Specifications
1.10.3.8	Conductors Specifications
1.10.3.9	Dusk to Dawn Light Specifications
1.10.3.10	Fastener Specifications
1.10.3.11	Flashing, Accessories, and Caulking Specifications
1.10.3.12	Sheet Metal Recycled Content
1.10.3.13	Sheet Metal Panel Profile
1.10.3.14	Sheet Metal Colors
1.10.3.15	Door Specifications (overhead)
1.10.3.16	Door Hardware Specifications
1.10.3.17	Framing Material Specifications
1.10.3.18	Window Specifications
1.10.3.19	Latex Paint Specifications
1.10.3.20	Door and Frame Specifications (entry)

1.10.4 Certificates

1.10.4.1	Contractor's Qualifications
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- 1.10.4.2 Superintendent's Qualification
- 1.10.4.3 Sheet Metal Manufacturer's Qualification
- 1.10.4.4 Manufacturer's Installation Manual
- 1.10.4.5 Coating System Manufacturer's Certification for application over metal roofing
- 1.10.4.6 Thickness Gauge Certification
- 1.10.4.7 Waste Disposal Facility Certification

1.10.5 Design Data

- 1.10.5.1 Roof Coating System Manufacturer's Descriptive and Technical Literature

1.10.6 Closeout Submittals

- 1.10.6.1 Daily Reports
- 1.10.6.2 Contractor Exposure Hours
- 1.10.6.3 Photographic Documentation
- 1.10.6.4 Warranty Information
- 1.10.6.5 Post Project Certification of Blood/Lead Levels
- 1.10.6.6 Waste Manifests

1.10.7 All submittals (one copy of each) shall be sent electronically or hard copy to the following:

Primary Contact:

U.S. Army Corps of Engineers
Missouri River Area Office
Attn: James Campbell
790 East HWY 224, Napoleon, MO
Phone: (816)-389-3680
Fax: (816) 389-2199
Email: james.d.campbell@usace.army.mil

U.S. Army Corps of Engineers
Missouri River Area Office
Attn: Kevin Pugh
790 East HWY 224, Napoleon, MO
Phone: (816)-389-3811
Fax: (816) 389-2199
Email: kevin.w.pugh@usace.army.mil

1.11 Measurements and Quantities

The Contractor shall verify all measurements at the project site and shall be responsible for all dimensions, fittings, and the proper installation of all materials and equipment specified.

1.12 Permits

The Contractor shall be responsible for obtaining any required permit.

1.12.1 Hot Work Permit

The Contractor shall be liable for any fire loss to Government property attributable to negligence on the part of the Contractor, including failure to comply with fire prevention measures prescribed by terms of this contract.

1.13 Safety Requirements

1.13.1 Protection from Hazards

During progress of work, the Contractor shall protect all personnel, whether Government or civilian, from any and all safety hazards caused by the construction operations.

1.13.2 Traffic Control

Work is located within an unsecured area and the contractor should take precautions to limit the general public from entering the proximity of the construction location. Contractor shall provide all temporary signs, markers, and personnel as necessary to maintain safety in the worksite.

1.13.3 U.S. ARMY CORPS OF ENGINEERS SAFETY AND HEALTH REQUIREMENTS MANUAL, EM 385-1-1 (2014)

EM 385-1-1 and its changes are available at <http://www.hq.usace.army.mil> (at the HQ homepage, select Safety and Occupational Health). Select the appropriate manual. The Contractor shall be responsible for complying with the current edition and all changes posted on the web as of the effective date of this solicitation.

2014 Version:

<https://www.usace.army.mil/Missions/Safety-and-Occupational-Health/Safety-and-Health-Requirements-Manual/>

1.13.4 Utilities Clearance

At least 72 hours prior to any excavation Missouri 811 or 1-800 292-8989, shall be contacted for utilities clearances.

1.14 Special Requirements

1.14.1. The paint on the building contains lead, therefore acceptable methods must be used to contain and remove the waste that is generated from chemically removing the surfaces prior to painting. The waste generated during the project that contains lead, shall be handled, stored, and disposed of by the contractor in accordance with all applicable federal, state, and local laws. The contractor will pay all disposal fees.

1.14.2 The contractor shall notify the contracting officer of his installation schedule at least 2 weeks prior to beginning the work.

1.14.3 The following is to be submitted to the Contracting Officer 1 work week prior to beginning work:

Before and after "Certification of Blood/Lead Levels"- by Contractor for all workers on this project before start of work and again within 10 days after project completion.

A complete list of materials and ingredients proposed for use in this project and their purpose.

Evidence of compliance with applicable State and Local regulations for Lead Paint Abatement and Removal.

Certificates from licensed landfills as evidence for legal disposal of lead paint pollutants and contaminated debris.

1.14.4 Personal Sampling

Sampling of airborne lead concentrations within the breathing zone of an employee to determine the 8-hour time weighted average concentration in accordance with 29 CFR 1926.62, 29 CFR 1926.1126, 29 CFR 1926.1127. Samples must be representative of the employees' work tasks. Breathing zone must be considered an area within a hemisphere, forward of the shoulders, with a radius of 6 to 9 inches and centered at the nose or mouth of an employee.

1.14.5 Protection of Existing Areas To Remain

Project work including, but not limited to a lead hazard abatement work, storage, transportation, and disposal must be performed without damaging or contaminating adjacent work and areas. Where such work or areas are damaged or contaminated, restore work and areas to the original condition.

1.14.6 Medical Examinations

Submit pre-project blood lead levels and post-project blood lead levels for all workers performing lead activities during the execution of the work. Initial medical surveillance as required by 29 CFR 1926.62, 29 CFR 1926.1126, 29 CFR 1926.1127 must be made available to all employees exposed to lead at any time (one day) above the action level. Full medical surveillance must be made available to all employees on an annual basis who are or may be exposed to lead in excess of the action level for more than 30 days a year or as required by 29 CFR 1926.62, 29 CFR 1926.1126, 29 CFR 1926.1127. Adequate records must show that employees meet the medical surveillance requirements of 29 CFR 1926.33, 29 CFR 1926.62, 29 CFR 1926.1126, 29 CFR 1926.1127 and 29 CFR 1926.103. Provide medical surveillance to all personnel exposed to lead, cadmium, chromium as indicated in 29 CFR 1926.62, 29 CFR 1926.1126, 29 CFR 1926.1127. Maintain complete and accurate medical records of employees for the duration of employment plus 30 years.

1.14.7 Training

Train each employee performing work that disturbs lead who performs LBP/MCL/PWL disposal, and air sampling operations prior to the time of initial job assignment and annually thereafter, in accordance with 29 CFR 1926.21, 29 CFR 1926.62, 29 CFR 1926.1126, 29 CFR 1926.1127, 40 CFR 745, state and local regulations where appropriate.

1.14.7.1 Respiratory Protection Program

a. Provide each employee required to wear a respirator a respirator fit test at the time of initial fitting and at least annually thereafter as required by 29 CFR 1926.62, 29 CFR 1926.1126, 29 CFR 1926.1127.

b. Establish and implement a respiratory protection program as required by 29 CFR 1926.103, 29 CFR 1926.62, 29 CFR 1926.1126, 29 CFR 1926.1127 and 29 CFR 1926.55.

1.14.7.2 Hazard Communication Program

Establish and implement a Hazard Communication Program as required by 29 CFR 1926.59.

1.14.8 Licenses, Permits and Notifications

Certify and submit in writing to the state's environmental protection agency responsible for lead hazard abatement activities and the COR at least 10 days prior to the commencement of work that licenses, permits and notifications have been obtained. All associated fees or costs incurred in obtaining the licenses, permits and notifications are included in the contract price.

1.14.9 Occupant Protection Plan

The Contractor must develop and implement an Occupant Protection Plan describing the measures and management procedures to be taken during lead, cadmium and chromium hazard abatement activities to protect the building occupants/building facilities and the outside environment from exposure to any lead, cadmium and chromium contamination while lead, cadmium and chromium hazard abatement activities are performed.

1.14.10 Occupational and Environmental Assessment Data Report

If initial monitoring is necessary, submit occupational and environmental sampling results to the COR within three working days of collection, signed by the testing laboratory employee performing the analysis, the employee that performed the sampling, and the competent person as defined by the EM 385-1-1.

a. The initial monitoring must represent each job classification, or if working conditions are similar to previous jobs by the same employer, provide previously collected exposure data that can be used to estimate worker exposures per 29 CFR 1926.62, 29 CFR 1926.1126, 29 CFR 1926.1127. The data must represent the worker's regular daily exposure to lead, cadmium, chromium for stated work.

b. Submit worker exposure data gathered during the task based trigger operations of 29 CFR 1926.62, 29 CFR 1926.1126, 29 CFR 1926.1127 with a complete process description. This includes manual demolition, manual scraping, manual sanding, heat gun, power tool cleaning, rivet busting, cleanup of dry expendable abrasives, abrasive blast enclosure removal, abrasive blasting, welding, cutting and torch burning where lead, cadmium and chromium containing coatings are present.

c. The initial assessment must determine the requirement for further monitoring and the need to fully implement the control and protective requirements including the lead, cadmium, chromium compliance plan per 29 CFR 1926.62, 29 CFR 1926.1126, 29 CFR 1926.1127.

1.15 Security:

1.15.1 In unoccupied facilities, the Contractor shall be responsible for the security of the facility, i.e., all exterior doors shall be locked, windows closed and locked, etc.

1.15.2 The Contractor shall not be on site without prior notification to the Corps of Engineers COR or otherwise designated person(s).

1.15.3 Contractor personnel shall have valid civilian ID's and Contractor vehicles shall have a valid registration.

1.16 Antiterrorism/Operation Security Requirements

1.16.1 General security requirements and guidance: The security requirements described below apply to all contract personnel (including employees of the prime Contractor ("Contractor") and all subcontractor employees) supporting the performance requirements of this contract. The Contractor is responsible for compliance with these security requirements. Questions regarding security matters shall be addressed to the designated Government representative (e.g., Contracting Officer Representative (COR), Requiring Activity (RA) representative, or Contracting Officer (if a COR or other RA representative is not appointed)). Contract personnel are critical to the overall security and safety of US Army Corps of Engineers (USACE) installations, facilities and activities, and security awareness training contributes to those efforts. The Department of Defense (DoD) and Army security training requirements specified below, if applicable, are performance requirements; all applicable contract personnel shall complete initial training within 30 days of contract award or the date new contract personnel begin performance on the contract. Within five business days from the completion of training, the Contractor shall provide written documentation (e.g., email or memorandum) to the Government representative. The documentation shall include the names of contract personnel trained and which training they completed; the Contractor shall maintain training records as part of their contract files and be prepared to provide copies of training certificates to the Government representative. Contractor personnel and vehicles are subject to search when entering federal installations. Additionally, all contract personnel shall comply with Force Protection Condition (FPCON) measures, Random Antiterrorism Measures (commonly referred to as "RAMs"), and Health Protection Condition (HPCON) measures. The Contractor is responsible for meeting performance requirements during elevated FPCON and/or HPCON levels in accordance with applicable RA plans and procedures --this includes identifying mission essential and non-mission essential personnel. In addition to the changes otherwise authorized by the changes clause of this contract, should the FPCON or HPCON levels at any individual facility or installation change, the Government may implement security changes that affect contract personnel. The Contractor shall ensure all contract personnel are aware of their security responsibilities, including any site-specific requirements identified in local policies or procedures.

1.16.2 Physical security and access control requirements: All contract personnel requiring physical access to a federal installation or facility shall comply with the access control procedures of that location. Contract personnel requiring unescorted access to meet contract performance requirements on a DoD installation in the US shall be vetted by the installation/facility Provost Marshal/Directorate of Emergency Services/Security Office using the National Crime Information Center-Interstate Identification Index (commonly referred to as "NCIC-III") and Terrorist Screening Database (commonly referred to as "TSDB"). Contract personnel shall comply with all personal identity verification requirements specified in installation/facility policies and procedures. Contract personnel who do not meet requirements for unescorted access to USACE facilities shall coordinate escorted

access with the Government representative, as needed. Contract personnel who receive keys, access cards, or lock combinations that provide access to government-owned property shall comply with key and lock control procedures of the RA.

1.16.3 Suspicious Activity Reporting training (e.g. iWATCH, CorpsWatch, or See Something, Say Something): All contract personnel shall receive initial and annual refresher training from the RA representative on the local suspicious activity reporting program. This locally developed training provides contract personnel with general information on suspicious behavior, and guidance on reporting suspicious activity to the project manager, security representative or law enforcement entity..

1.16.4 Pre-screen candidates using E-Verify Program: Contractors shall comply with the requirements set forth in FAR clause 52.222-54 Employment Eligibility Verification and FAR Subpart 22.18 in using the E-Verify Program at (<https://www.e-verify.gov/>) (website subject to change) to meet the contract employment eligibility requirements. Contractors are encouraged to cooperate with Federal and State agencies responsible for enforcing labor requirements to include eligibility for employment under United States immigration laws in accordance with FAR 22.102-1(i). An initial list of verified/eligible candidates shall be provided to the COR no later than three business days after the initial contract award. When contracts are with individuals, the individuals will be required to complete a Form I-9, Employment Eligibility Verification, and submit it to the Contracting Officer to become part of the official contract file.

1.16.5 Per the E-Verify Website the following exemptions apply:

Employers whose contracts are exempt from the E-Verify federal contractor rule are not required to enroll in E-Verify. A contract is considered exempt if any one of the following applies: (1) It is for fewer than 120 days. (2) It is valued at less than the simplified acquisition threshold (Source: <https://www.e-verify.gov/employers/federal-contractors/exemptions-and-exceptions>).

1.17 Applicable Publications

The publications referenced herein shall be the most recent at the time of solicitation.

1.18 Worksite Housekeeping

1.18.1 The Contractor shall remove all trash and disposal material from the worksite before the end of each day. The Contractor shall take all possible precautions to maintain the work site, always in a condition that will prevent damage or injury to person or property, Government or otherwise. The Contractor shall be responsible for all damages caused by the negligent acts or omissions of his employees, sub-contractors, or agents during Contract performance. Do not allow scrap/waste materials to accumulate on-site; transport immediately from the government property and legally dispose of them at the end of each working day. The contractor will not be permitted to sell salvaged material on Government property. No persons other than the Contractors or sub-contractors' employees shall be allowed to remove salvage from the site.

1.18.2 Schedule cleanup in a manner to cause the least possible obstruction and inconvenience to traffic, pedestrians, and property occupants. Excavated material will become the responsibility of the Contractor and shall be hauled off and disposed of in accordance with Federal and State Regulations. *After the completion of the work, the parking area shall be restored back to its existing condition and all areas brought to a uniform level of the adjoining grade.*

1.18.3 Contractor is not to use the on-site dumpsters to dispose of waste materials. The site shall be left the same or in better condition prior to construction. The site shall be clean, free of any construction related materials and trash, upon completion of the work.

1.18.4 If any items are allowed to be stockpiled per the Operations Project Manager or COR, such items shall be placed in an orderly manner (i.e., dirt, rock, etc., in piles at a specified location and stackable items such as pipe, brick, lumber, etc., stacked off the ground on pallets in an orderly manner).

1.19 Responsibility for Damage

1.19.1 Damage to Personal Property:

The Contractor shall be solely responsible for all damage to Government and occupant personal property caused by the Contractors' personnel, subcontractors, his agents, or by the performance of his work.

1.19.2 Damage by Negligence

1.19.2.1 The Contractor's attention is directed to the fact that the work to be performed is in areas used by the public. It shall be the responsibility of the Contractor to provide the controls necessary to prevent any interference by the public to his operations. The Contractor shall take all necessary and reasonable precautions to secure the area against vandalism and to ensure the safety and well-being of the public until final acceptance by the Government.

1.19.2.2 Damage resulting in gas leaks, electrical outages, loss of heat during cold weather, water leaks, unsecured facilities, weather damage, or oil/hazardous waste spills shall be responded to by the Contractor within 2 hours and repaired within one workday. If the Contractor fails to comply with these requirements, the Government reserves the right to repair the damage and charge the cost to the Contractor. Contractor shall protect all areas through which he will be transporting demolition debris or construction materials. All structures, including roadways, shall be carefully protected from damage by equipment or the impact of stones or blocks. Any damaged turf, sidewalks, roads, vegetation, site amenities, etc., shall be replaced or repaired by the Contractor prior to final Contract closeout at the Contractor's expense.

1.20 Disposal of Materials

All demolition materials for this project shall become property of the Contractor.

1.20.1 All other wastes generated during Contractor operations shall be disposed of by the Contractor at his/her expense.

1.20.2 Solid wastes (excluding clearing debris) shall be placed in containers which are emptied on a regular schedule. Handling, storage, and disposal shall be conducted to prevent contamination. Segregation measures shall be employed so that no hazardous or toxic waste will become co-mingled with solid waste. The Contractor shall transport solid waste off Government property and dispose of it in compliance with Federal, State, and local requirements for solid waste disposal. A Subtitle D RCRA permitted landfill shall be the minimum acceptable off-site solid waste disposal option. The Contractor shall verify that the selected transporters and disposal facilities have the necessary permits and licenses to operate. The Contractor shall comply with Federal, State, and local laws and regulations pertaining to the use of landfill areas.

1.20.3 Wastes classified as hazardous wastes under the Resource Conservation and Recovery Act shall be disposed of, unless otherwise specified in this contract. No hazardous waste shall be disposed of without prior review of the disposal documents, and the approval of the COR and the Environmental Compliance Coordinator, or his designated representative. The Contractor shall provide an original copy of the disposal document from the approved EPA or State permitted disposal facility for each shipment of hazardous waste generated in this project to the Administrative Contracting Officer (ACO).

1.20.4 Unified Facilities Guide Specifications (UFGS) 01572, "Construction and Demolition Waste Management," indicates the Government policy is to "use all reasonable means to divert construction and demolition waste from landfills and incinerators and to facilitate their recycling and reuse." The Contractor shall make all attempts to divert waste material from landfills in coordination of this guidance.

1.21 Utilities

The Contractor is responsible for providing utilities for their employees. This shall include but not limited to electric, water, and restrooms.

1.22 Pre-Construction Meeting

Prior to commencement of any work being performed, the contractor shall participate in a pre-construction meeting with the CORs and other pertinent government officials. Pre-construction meeting shall occur within 10 calendar days of contract award.

1.23 Quality Control

Workmanship shall be of the highest grade in accordance with the best modern practices to conform to the specifications for the work being performed. The Contractor shall be responsible for quality control to ensure all components and workmanship meet requirements of this contract. Representatives of USACE reserves the right to inspect and witness the work, verify quality of workmanship and products used at any time, whether the work is performed in the field or at the Contractor's shop.

1.24 Post Award Conference/Periodic Progress Meetings

The Contractor agrees to attend any post award conference convened by USACE in accordance with Federal Acquisition Regulation Subpart 42.5. The Contracting Officer, Contracting Officers Representative (COR), and other Government personnel, as appropriate, may meet periodically with the Contractor to review the Contractor's performance. At these meetings the contracting officer will apprise the Contractor of how the government views the Contractor's performance and the Contractor will apprise the Government of problems, if any, being experienced. Appropriate action shall be taken to resolve outstanding issues. These meetings shall be at no additional cost to the government.

1.25 Additional Requirements

1.25.1 Environmental Requirements

1.25.1.1 The Contractor shall minimize environmental pollution and damage that may occur as the result of construction operations. The environmental resources within the project boundaries and those affected outside the limits of permanent work shall be protected during the entire duration of this contract. The Contractor shall comply with all applicable environmental Federal, State, and local laws and regulations. The Contractor shall be responsible for any delays resulting from failure to comply with environmental laws and regulations. During construction, the Contractor shall be responsible for identifying, implementing, and submitting for approval any additional requirements for environmental compliance.

1.25.1.2 If any cultural and/or human remains are inadvertently uncovered during construction, the work is to be halted until appropriate project and district personnel are notified and the remains are evaluated for National Register of Historic Places (NRHP) significance.

1.25.1.3 No clearing of trees will occur between 1 April and 31 October.

1.25.2 Environmental Protection

Prior to the delivery of any material to the site, and before the start of any onsite construction activities, the Contractor and the Government Representative shall make a joint site survey. This survey will include a review of work constraints and resources specifically identified as environmental features requiring protection along with the condition of trees, shrubs, and grassed areas immediately adjacent to the site of work and access route(s), as applicable. The Contractor shall protect those environmental features included in this survey and any indicated on the drawings, regardless of interference which their preservation may cause to the Contractor's work under the contract. The Contractor will review the requirements in this Section and any notes from the joint site survey with each worker prior to them beginning work at the site.

1.25.3 Environmental Assessment of Scope of Work Deviations

Any deviations, requested by the Contractor, from the drawings, plans and specifications, which may have an environmental impact, will be subject to approval by the COR and may require an extended review, processing, and approval time. The COR reserves the right to disapprove alternate methods, even if they are more cost effective, if the COR determines that the proposed alternate method will have an adverse environmental impact.

1.25.4 Water Resources

The Contractor shall monitor construction activities to prevent pollution of surface and ground waters. Toxic or hazardous chemicals shall not be applied to soil or vegetation unless otherwise indicated. All water areas affected by construction activities shall be monitored by the Contractor. For construction activities immediately adjacent to impaired surface waters, the Contractor shall be capable of quantifying sediment or pollutant loading to that surface water when required by State or Federally issued Clean Water Act permits.

1.25.5 Sound Intrusions

The Contractor shall keep construction activities under surveillance and control to minimize environment damage by noise. All equipment to have factory installed muffler system and comply with standard equipment decibel ratings.

1.25.6 Fuel and Lubricants

Storage, fueling and lubrication of equipment and motor vehicles shall be conducted in a manner that affords the maximum protection against spill and evaporation. Fuel, lubricants, and oil shall be managed and stored in accordance with all Federal, State, Regional, and local laws, and regulations. Used lubricants and used oil to be discarded shall be stored in marked corrosion-resistant containers and recycled or disposed in accordance with 40 CFR 279, State, and local laws, and regulations.

1.25.7 Previously Used Equipment

The Contractor shall clean all previously used construction equipment prior to bringing it onto the project site. The Contractor shall ensure that the equipment is free from soil residuals, egg deposits from plant pests, noxious weeds, and plant seeds. The Contractor shall consult with the USDA jurisdictional office for additional cleaning requirements.

1.26 Delivery, Storage and Handling

1.26.1 Delivery

Deliver materials in their original, unopened containers or wrappings with labels intact and legible. Where materials are covered by a referenced specification number, the labels must bear the specification number, type, class, and shelf-life expiration date where applicable. Deliver materials in sufficient quantity to allow continuity of work.

1.26.2 Storage

Store and protect materials from damage and weather in accordance with manufacturer's printed instructions, except as specified otherwise. Keep materials clean and dry. Store and maintain adhesives, sealants, primers and other liquid materials above 60 degrees F. Utilize insulated hot boxes or other enclosed warming devices in cold weather. Mark and remove damaged materials from the site. Use pallets to support and canvas tarpaulins to completely cover materials stored outdoors. Do not use polyethylene as a covering. Locate materials temporarily stored on the roof in approved areas and distribute the load to stay within the live load limits of the roof construction. Remove unused materials from the roof at the end of each days work.

1.26.3 Handling

Prevent damage to edges and ends of roll materials. Do not install damaged materials in the work. Select and operate material handling equipment so as not to damage materials or applied roofing. Do not use materials contaminated by exposure or moisture. Remove contaminated materials from the site. Adhesives may contain petroleum distillates and may be extremely flammable; prevent personnel from breathing vapors, and do not use near sparks or open flame.

1.27 Conformance and Compatibility

Provide the entire roofing and flashing system in accordance with specified and indicated requirements. Work not specifically addressed and any deviation from specified requirements must be in general accordance with recommendations of the National Roofing Contractors Association (NRCA) roofing manual as well as, membrane manufacturer's published recommendations and details, and compatible with surrounding components and construction. Submit any deviation from specified or indicated requirements to the Contracting Officer for approval prior to installation.

1.28 Warranty

Provide roof system material and workmanship warranties meeting specified requirements. Provide revision or amendment to standard membrane manufacturer warranty as required to comply with the specified requirements.

1.28.1 Roof

1.28.1.1 Manufacture Warranty

The Contractor shall furnish the roof coating manufacturer's 15-year no dollar limit roof system materials and installation workmanship warranty, including flashing, insulation, components, trim, and accessories necessary for a watertight roof system construction. Make warranty directly to the Government, commencing at time of Government's acceptance of the roof work. The warranty must state that:

- a. If within the warranty period, the roof coating system, as installed for its intended use in the normal climatic and environmental conditions of the facility, becomes non-watertight, shows evidence of moisture intrusion within the assembly, displaces, corrodes, perforates, separates at the seams, or shows evidence of excessive weathering due to defective materials or installation workmanship, the repair or replacement of the defective and damaged materials of the roof system and correction of defective workmanship is the responsibility of the metal roof panel manufacturer. All costs associated with the repair or replacement work are the responsibility of the metal roof panel manufacturer.
- b. If the manufacturer or his approved applicator fail to perform the repairs within 72 hours of notification, emergency temporary repairs performed by others does not void the warranty. The contractor shall supply a warranty card to the COR at the completion of the project.

1.28.1.2 Installer Warranty

The Contractor shall provide a roof system installer warranty for a period of not less than 2 years, as installed, is free from defects in installation workmanship, to include the roof coating installation, flashing, insulation, accessories, attachments, and sheet metal installation integral to a complete watertight roof system assembly. The Contractor shall issue warranty directly to the Government. Correction of defective workmanship and replacement of damaged or affected materials is the responsibility of the metal roof system installer. All costs associated with the repair or replacement work are the responsibility of the installer.

1.28.1.3 Warranty Card

The Contractor shall furnish a typewritten information card for facility records and a card laminated in plastic and framed for interior display, or a photoengraved 1 mm (0.032) inch thick aluminum card for exterior display. The

contractor shall make a card 8 1/2 by 11 inches minimum. Information card must identify facility name and number; location; contract number; approximate roof area; detailed roof system description, including deck type, roof panel manufacturer and product name, type underlayment(s), date of completion; installing contractor identification and contact information; manufacturer warranty expiration, warranty reference number, and contact information. Install card at location as directed by the Contracting Officer and provide a paper copy to the Contracting Officer.

1.29 Time Extensions for Unusually Severe Weather

This provision specifies the procedure for determination of time extensions for unusually severe weather in accordance with:

a. This provision specifies the procedure for section (d) of the CONTRACT CLAUSE 52.249-10 titled "Default (Fixed Price Construction)". In order for the Contracting Officer to award a time extension under this clause, the following conditions must be satisfied:

(1) The weather experienced at the project site during the contract period must be found to be unusually severe, that is, more severe than the adverse weather anticipated for the project location during any given month.

(2) The unusually severe weather must actually cause a delay to the completion of the project. The delay must be beyond the control and without the fault or negligence of the Contractor.

b. The following schedule of monthly anticipated adverse weather delays is based on National Oceanic and Atmospheric Administration (NOAA) or similar data for the project location and will constitute the base line for monthly weather time evaluations. The Contractor's progress schedule must reflect these anticipated adverse weather delays in all-weather dependent activities for the duration of the project.

MONTHLY ANTICIPATED ADVERSE WEATHER DELAY WORKDAYS BASED ON (5) DAY WORK WEEK *

	Jan	Feb	Mar	Apr	May	June	Jul	Aug	Sep	Oct	Nov	Dec
Columbia Missouri	11	6	5	6	6	4	4	4	5	4	5	7

c. Upon acknowledgment of the Notice to Proceed (NTP) and continuing throughout the duration of the contract, the Contractor shall record on the daily CQC report, the occurrence of adverse weather and resultant impact to normally scheduled work. Actual adverse weather delay days must prevent work on critical path activities for 50 percent or more of the Contractor's scheduled workday.

d. Within ten days of the following month, the Contractor shall provide in writing a list of their proposed dates of the actual adverse weather delay days for each month. The number of actual adverse weather delay days shall include days impacted by actual adverse weather (even if adverse weather occurred in previous month), be calculated chronologically from the first to the last day of each month and be recorded as full days. If the number of actual adverse weather delay days exceeds the number of days anticipated in paragraph (b), above, the Contracting Officer will convert any qualifying delays to calendar days and issue a modification in accordance with the Contract Clause entitled "Default (Fixed Price Construction)". After the original contract completion date has passed, adverse weather that causes delay to the completion of the project will be granted day-for-day without deducting anticipated adverse weather delay days and will be converted from workdays to calendar days.

* Monthly anticipated weather delay days shall be adjusted proportionally if work is scheduled to be

performed in a work week with greater than or less than a five-day work week. The following formula shall be used to adjust the monthly anticipated weather delays:

Adjusted monthly anticipated weather delays = A multiplied by (B divided by C); where A = The monthly anticipated adverse weather delay for a particular month based on a five-day work week. B = The actual average number of days work is scheduled to be performed in a work week during that particular month. C = The number five (5) e.g., If the monthly anticipated adverse weather delay for January based on a five day work week is 10 days, but the Contractor actually scheduled an average of a six-day work week for that month, the monthly anticipated weather delay would be adjusted by applying the above formula as follows: $10 \times (6/5) = 12$ days.

* Monthly anticipated weather delay days shall also be adjusted proportionally for those situations involving a fractional part of a month. Some examples are the month Notice to Proceed is acknowledged and the month of the original contract completion date. The following formula shall be used to adjust the monthly anticipated weather delays:

Adjusted monthly anticipated weather delays = D multiplied by (E divided by F); where

D = The monthly anticipated adverse weather delay for a particular month.

E = The number of calendar days during that fractional part of a particular month.

F = The number of calendar days in that particular month. e.g., The monthly anticipated adverse weather delay for the particular month is 9 days. The original contract completion date is on the twentieth (20th) day of a thirty (30) day month. The monthly anticipated adverse weather delay would be adjusted by applying the above formula as follows: $9 \times (20/30) = 6$ days.

1.30 Field Office Overhead (JUL 2002)

NOTICE TO BIDDERS: You must declare below the single accounting practice that you apply to contracts to calculate field office overhead for all change orders, modifications and requests for equitable adjustment. Pursuant to Federal Acquisition Regulations (FAR) Parts 31.105(d)(3) and 31.203(d)(1), an accounting practice that varies from modification to modification is not allowable. Select one of the following:

1. TIME DISTRIBUTION BASE FOR A PER DIEM RATE

If you use this practice, see Special Clause "Field Office Overhead Per Diem Rate" _____

2. DIRECT COST DISTRIBUTION BASE FOR A PERCENTAGE MARKUP

If you use this practice, see Special Clause "Field Office Overhead Percentage Markup" _____

3. OTHER ACCOUNTING PRACTICE THAT IS ALLOWABLE UNDER THE FAR AND THAT USES A SINGLE DISTRIBUTION BASE. _____

If you choose 3, you must describe the accounting practice in sufficient detail below to allow the contracting officer to determine what accounting practice is being utilized by your company and that it complies with the FAR.

FAILURE TO FULLY COMPLY WITH THE ABOVE REQUIREMENT OR, IF ALTERNATIVE 3 IS DECLARED AND YOUR DESCRIPTION DOES NOT CLEARLY STATE OR DESCRIBE A CONSISTENT ACCOUNTING PRACTICE USING A SINGLE DISTRIBUTION BASE, WILL BE CAUSE FOR YOUR BID TO BE REJECTED AS NON-RESPONSIVE.

(End)

FIELD OFFICE OVERHEAD PERCENTAGE MARKUP (JUN 2001)

If any change to the contract issued pursuant to the changes Clause, or otherwise, for which the Government is responsible, causes an increase or decrease in the Contractor's cost, or in the time required for performance under the contract, the Contracting Officer shall make an equitable adjustment and modify the contract in writing. Under such equitable adjustment, no per diem rate for field office overhead shall be allowed if the Contractor has elected a percentage markup in keeping with its standard accounting practices. In such a case, payment of field office overhead shall be allowed for any change on a percentage markup basis regardless of whether the completion of the contract is or is not extended by reason of the change, except for modifications issued pursuant to the Default Clause. The Contractor shall provide a detailed breakdown of its proposed increase or decrease of costs as required by Contract Clause DFARS 252.236-7000 MODIFICATION OF PROPOSALS – PRICE BREAKDOWN.

FIELD OFFICE OVERHEAD PER DIEM RATE

If any change to the contract, issued pursuant to the Changes Clause or otherwise, for which the Government is responsible, causes an increase or decrease in the Contractor's cost of, or the time required for, performance under the contract, the Contracting Officer shall make an equitable adjustment and modify the contract in writing.

Under such equitable adjustment, no payment of field office overhead shall be allowed for any changes when the completion of the contract is not extended by reason of the change, except the Contractor may be reimbursed any variable expense it incurs due to the change, provided it can substantiate the variables. The Contractor shall be reimbursed for field office overhead on a per diem basis when the completion of the contract is extended by reason of the change issued under any clause except the Default clause. Equitable adjustment shall be made for the costs that are incurred or are to be incurred due to the change. The Contractor shall provide a detailed breakdown of its proposed increase or decrease of costs as required by Contract Clause DFARS 252.236-7000 MODIFICATION OF PROPOSALS – PRICE BREAKDOWN.

2. MATERIALS

2.1 Fluid-Applied Membrane

- a. Membrane material must conform to ASTM C836/C836M
- b. Color will be selected from the standard list of manufacture options for gray, light gray, light brown, tan, or ivory.

2.1.1 Primer

As recommended by the fluid-applied membrane manufacturer.

2.1.2 Seam Tape, Sealants and Accessories

As recommended by the fluid-applied membrane manufacturer.

2.2 Fiberglass Skylight Panels

- a. ASTM D3841, Glass Fiber Reinforced Polyester Plastic Panels.
- b. 12oz/sq ft, translucent white or clear with matte finish

2.2.1 Fasteners

As recommended by the steel sheet and fiberglass panel manufacturer.

2.3 Steel Sheet Panels

Roll-form steel sheet roof panels 26 gauge.

Provide Steel panels with a minimum recycled content of 30 percent. Provide data indicating percentage of recycled content for steel roof panels.

Material must be plumb and true, and within the tolerances listed:

- a. Galvanized steel sheet conforming to ASTM A653 and AISI SG03-3.
- b. Aluminum-Zinc alloy coated steel sheet conforming to ASTM A792 and AISI SG03-3
- c. The panels shall have a factory applied finish free from defects.

2.3.1 Fasteners

Provide corrosion resistant coated steel fasteners for roof panels, compatible with the sheet panel or flashing material and of the type and size recommended by the manufacturer to meet the performance requirements and design loads. Provide fasteners for accessories that are the manufacturer's standard. Provide an integral metal washer, matching the color of attached material with compressible sealing.

2.3.2 Accessories

Components shall be compatible with the roof panel furnished. Flashing, trim, metal closure strips, caps and similar metal components shall not be less than the minimum thickness specified by the manufacturer. Exposed metal components shall be finished to match the panels or trim, as furnished.

2.3.3 Sheet Metal Flashing and Trim

Shop fabricated items to the greatest extent possible. Obtain and verify field measurements for accurate fit prior to shop fabrication. Fabricate flashing and trim without excessive oil canning, buckling, and tool marks, true to line and levels indicated, with exposed edges folded back to form hems.

2.3.4 Prefabricated Pipe Flashings

Pipe flashings shall provide a weather tight joint at projections through the roof, taking into account, the thermal movement of the roof and the service temperature of the projection. Pipe flashings shall have an aluminum-flanged base ring.

2.3.6 Metal Closure Strips

Provide factory fabricated steel closure strips of the same gauge, color, finish and profile as the specified roof panel.

2.3.7 Tape Sealants

All tape sealants shall be a pressure sensitive, 100 percent solid, sealing tape with a release paper backing. Provide permanently elastic, non-sagging, non-toxic, non-staining tape sealant approved by the manufacturer. All joint sealant that will contact the roofing system shall be approved by the manufacture.

2.3.8 Joint Sealants

Sealants are to be an approved gun type for use in hand or air pressure caulking guns at temperatures above 40 degrees F (or frost-free application at temperatures above 10 degrees F) with a minimum solid content of 85 percent of the total volume. Ensure sealant dries with a tough, durable surface skin which permits it to remain soft and pliable underneath, providing a weather tight joint. No migratory staining, in conformance with to ASTM C792, is permitted on painted or unpainted metal, stone, glass, vinyl or wood.

Prime all joints to receive sealants with a compatible one-component or two-component primer as recommended by the roof panel manufacturer.

2.3.9 Field Applied Sealants

Provide sealants for field-applied caulking that is an approved gun grade, non-sag one-component polysulfide or two component polyurethane with an initial maximum Shore durometer hardness of 25, conforming to ASTM C920, Type II. Color to match panel color.

~~2.4 Rigid, Cellular Polystyrene Thermal Insulation~~

~~Insulation must conform to ASTM C578~~

2.4 Thermal Insulation

Insulation must conform to XPS Rigid, Cellular Polystyrene Thermal Insulation: ASTM C578.

2.4.1 Rigid cellular plastics

Compressive Resistance at Yield: Not less than 10 pounds per square inch (psi) when measured according to ASTM D1621.

2.4.2 Water Vapor Permeance

Not more than 1.1 Perms or less when measured according to ASTM E96/E96M, desiccant method, in the thickness required to provide the specified thermal resistance, including facings, if any.

2.4.3 Flexural Strength

Block-type insulation: Block-type insulation: Flexural strength: Not less than 25 psi when measured according to ASTM C203 REV A.

2.4.4 Water Absorption

Not more than .3 percent by total immersion, by volume, when measured according to ASTM C272/C272M.

2.4.5 Prohibited Materials

Do not provide materials containing asbestos.

2.4.6 Mechanical Fasteners

Corrosion resistant fasteners as recommended by the insulation manufacturer.

2.5 Electrical Materials

Provide materials and equipment that are products of manufacturers regularly engaged in the production of such products which are of equal material, design, and workmanship and:

- a. Have been in satisfactory commercial or industrial use for 2 years prior including applications of equipment and materials under similar circumstances and of similar size.
- b. Have been on sale on the commercial market through advertisements, manufacturers' catalogs, or brochures during the 2-year period.
- c. Where two or more items of the same class of equipment are required, provide products of a single manufacturer; however, the component parts of the item need not be the products of the same manufacturer unless stated in this section.
- d. Products manufactured more than 3 years prior to date of delivery to site are not acceptable.
- e. All products, as a minimum, meet requirements of UL, where UL standards are established for those items, and requirements of NFPA 70 for all materials, equipment, and device.

f. Products shall meet additional requirements established by Evergy Electrical Service Standards

<https://ss.evergy.com/>

2.5.1 Meter Socket

Provide UL listed meter socket approved by utility provider Evergy.

2.5.2 Disconnect

Provide UL listed disconnect approved by utility provider Evergy.

2.5.3 Load Centers

Provide UL listed 120/240-volt single phase, 200 amp, 30 space, 65 kA Load Center with copper bus. Load center shall be designed so that any two adjacent breaker poles are on different phases.

Contractor shall provide upon system installation:

- a. Directories: indicate load served by each circuit in panelboard.
- b. Directories: indicate source of service to panelboard (e.g., Panel PA served from panel MDP)
- c. Type directories and mount behind in holder with transparent protective covering on inside of panel door.
- d. Arc Flash study and Arc Flash labeling for all new electrical equipment.

2.5.4 Circuit Breakers

UL 489 thermal magnetic type having a minimum short-circuit current rating equal to the short-circuit current rating of the load center in which the circuit breaker will be mounted.

Breaker terminals: UL listed as suitable for type of conductor provided. Provide switch duty rated breakers sized to match existing circuits. Breakers must not require use of panel trim to secure them to the bus.

2.5.5 Multipole Breakers

Provide common trip-type with single operating handle. Design breaker such that overload in one pole automatically causes all poles to open. Maintain phase sequence throughout each panel so that any two adjacent breaker poles are connected to Phases A and B respectively.

2.5.6 Ground Rods

Shall conform to UL 467. Ground rods: cone pointed solid copper, with minimum diameter of 3/4 inch and minimum length 10 feet. Sectional ground rods are permitted.

2.5.7 Conduit

2.5.7.1 Rigid Nonmetallic Conduit

Ensure rigid nonmetallic conduit complies with NEMA TC 2, NEMA TC 3, and UL 651 as applicable with a wall thickness not less than Schedule 80.

2.5.7.2 Rigid Metallic Conduit

Shall conform to ANSI C80.1 , 2.2.1.2 UL 6 .

2.5.7.3 Electrical Metallic Tubing (EMT)

Ensure EMT is in accordance with UL 797, UL 5, and ANSI C80.3 and is zinc coated steel. Provide zinc-coated couplings and connectors that are raintight, compression type with insulated throat. Crimp, spring, or setscrew type fittings are not acceptable. EMT shall only be used for lighting circuits.

2.5.7.4 Flexible Metallic Conduit

Ensure flexible metallic conduit is galvanized steel and complies with UL 1 and UL 360. Ensure fittings for flexible metallic conduit are specifically designed for such conduit. Provide liquid tight flexible metallic conduit with a protective jacket of PVC extruded over a flexible interlocked galvanized steel core to protect wiring against

moisture, oil, chemicals, and corrosive fumes. Ensure fittings for liquid tight flexible metallic conduit are specifically designed for such conduit.

2.5.8 Wires

Provide wires and cables in accordance with applicable requirements of NFPA 70 and UL for type of insulation, jacket, and conductor specified or indicated. Do not use wires and cables manufactured more than 12 months prior to date of delivery to site.

2.5.8.1 Conductors

Conductors must conform to all the applicable requirements of NEMA WC 57, NEMA WC 70, ANSI/NEMA WC 71/ICEA S-96-659 as applicable. Copper conductors must be annealed copper material and they may be bare, or tin-alloy-coated, if required by the type of insulation used. Intermixing of copper and aluminum conductors in the same raceway is not permitted. Conductors #6 AWG and smaller must be copper. Aluminum conductors of equivalent ampacity can be used instead of copper for #4 AWG and larger sizes.

2.5.8.2 Aluminum Conductors

Provide aluminum conductors of AA-8000 series electrical grade aluminum alloy conductors. Type EC/1350 aluminum is not acceptable. If Contractor chooses to provide aluminum for conductors No. 4 AWG and larger diameter, Contractor is responsible for increasing conductor size to have same ampacity as copper size indicated; increasing conduit and pull box sizes to accommodate larger size aluminum conductors in accordance with NFPA 70; ensuring that pulling tension rating of aluminum conductor is sufficient; providing panelboards that are UL listed for use with aluminum, and so labeled; relocating equipment, modifying equipment terminations, resizing equipment; and resolving problems that are direct results of providing aluminum conductors in lieu of copper.

2.5.8.3 Minimum Conductor Sizes

Minimum wire size must be No. 12 AWG for power and lighting circuits

2.5.8.4 Color Coding

Provide color coding for service, feeder, branch, control, and signaling circuit conductors.

- a. Grounding conductors: Green or Bare.
- b. Neutral conductors: White.
- c. Exception, where neutrals of more than one system are installed in same raceway or box, other neutrals color coding: white with a different colored (not green) stripe for each.
- d. 120/240-volt, single phase: Black and Red

2.5.8.5 Rated Circuit Voltages: All power wire and cable must have minimum rated circuit voltages in accordance with NEMA WC 70, ANSI/NEMA WC 71/ICEA S-96-659, or NEMA WC 74/ICEA S-93-639 as applicable. Power wire and cable for circuit voltages rated 0-600 volts must be rated not less than 600 volts.

2.5.8.6 Conductor characteristics: Conductors must conform to all the applicable requirements of NEMA WC 57, NEMA WC 70, ANSI/NEMA WC 71/ICEA S-96-659 as applicable. Copper conductors must be annealed copper material and they may be bare, or tin- or lead-alloy-coated, if required by the type of insulation used. Intermixing of copper and aluminum conductors in the same raceway is not permitted.

2.5.8.7 Insulation and Shielding Wires: in conduit, other than service entrance, must be 600-volt, Type THWN/THHN conforming to UL 83. Insulation for control wire and cable must meet the requirements of NEMA

WC 57, NEMA WC 70, ANSI/NEMA WC 71/ICEA S-96-659 as applicable and must be in addition to the conductor insulation thickness required by the applicable respective NEMA publication for the insulation used. Thickness of the outer jackets and associated coverings of the assembled multiple-conductor cables must be as required by NEMA WC 57, NEMA WC 70, ANSI/NEMA WC 71/ICEA S-96-659, or NEMA WC 74/ICEA S-93-639 as applicable.

2.5.8.8 Service Entrance Cables

a. Service Entrance (SE) and Underground Service Entrance (USE) Cables, UL 854.

b. Refer to Everygy Electric Service Standards

2.5.9 Exterior Lighting

Provide UL listed commercial grade dusk to dawn, 5,000 lumen, photocell-controlled LED fixture and mounting arm from a nationally recognized manufacturer.

2.6 Overhead Doors

a. Doors must comply with ANSI/DASMA 102. Metal doors to have horizontal sections hinged together which operate in a system of tracks to completely close the door opening in the closed position and make the full width and height of the door opening available for use in the open position. Provide a permanent label on the door indicating the name and address of the manufacturer. Provide doors with low headroom type designed to slide up and back into a horizontal overhead position and requiring a maximum of 10 inch of headroom for 2-inch tracks and 12 inches of headroom for 3-inch tracks. Doors operate by electric power with auxiliary hand operation.

b. Doors must comply with ANSI/DASMA 207. Provide overhead coiling doors with interlocking slats, complete with anchoring and door hardware, guides, hood, and operating mechanisms, and designed for use on openings as indicated. Doors must be spring counterbalanced, rolling type, and designed for use on exterior openings. Doors must be operated by hand chain with gear or sprocket reduction or by electric-power with auxiliary hand chain operation, as indicated. Doors to be surface-mounted type with guides at jambs set back a sufficient distance to provide a clear opening when door is in open position. Mount exterior doors on interior face of walls.

2.6.1 Insulated Sections

Insulate door sections with plastic foam or other material providing a "U" factor of 0.27 or less. Cover interior of door sections with steel sheets of not lighter than 0.4 mm thick 27 gage to completely enclose the insulating material.

2.6.2 Electric Operator

Operators must be labeled and listed to the requirements of UL 325. Provide operators of the drawbar type or side mount (jack shaft) type as recommended by the manufacturer. Include operators with electric motor, machine-cut reduction gears, steel chain and sprockets, magnetic brake, brackets, pushbutton controls, limit switches, magnetic reversing contactor, a manual chain hoist operator for emergency use, and other accessories necessary for operation. Motor shall be sufficient to produce door travel without exceeding the rated capacity.

2.6.2.1 Controls

The operator controls shall have a rolling code capability and be supplied with one wired control panel, one wireless control panel (with numeric code pad) and 6 wireless remote openers.

2.6.2.2 Entrapment Protection Device

Provide entrapment protection devices for electrically operated doors in accordance with UL 325. These devices must immediately stop and reverse the door in its closing travel upon sensing an obstruction in the door opening or upon failure of the device or any component of the control system.

~~2.7 Windows~~

~~Provide fixed double pane extruded aluminum frame windows meeting ASTM 6063-T5 commercial quality~~

~~2.7.1~~

~~Provide manufacturer's standard hardware fabricated from aluminum, stainless steel, carbon steel complying with AAMA 907, or other corrosion resistant material compatible with adjacent materials; designed to smoothly operate, tightly close, and securely lock windows, and sized to accommodate sash weight and dimensions.~~

~~2.7.2 Glazing~~

~~Two panes of glass separated by a dehydrated airspace filled with inert gas and hermetically sealed, conforming to ASTM E2190.~~

2.7 Windows

Provide prime windows that comply with AAMA/WDMA/CSA 101/I.S.2/A440 and the requirements specified herein. In addition to compliance with AAMA/WDMA/CSA 101/I.S.2/A440, window framing members for each individual light of glass must not deflect to the extent that deflection perpendicular to the glass light exceeds L/175 of the glass edge length when subjected to uniform loads at specified design pressures. Provide windows of types, performance classes, performance grades, combinations, and sizes indicated or specified. Provide aluminum window frames with a minimum recycled content of 20 percent. Design windows to accommodate hardware, glass, weatherstripping, screens, and accessories to be furnished. Each window must be a complete factory assembled unit with glass installed. Provide windows with insulating glass and thermal break necessary to achieve a minimum Condensation Resistance Factor (CRF) of 51 when tested in accordance with AAMA 1503.

2.7.1 Hung Windows (h)

Double Hung, Type H-CW-30 and sized to match the existing opening. Test and rate sash balance to conform with AAMA 902. Design windows, hardware, and anchors to withstand the wind loading specified.

2.7.2 Accessories

Provide windows complete with necessary hardware, fastenings, clips, fins, anchors, glazing beads, and other appurtenances necessary for complete installation and proper operation.

2.7.3 Window Frame

Provide fixed double pane extruded aluminum frame windows meeting ASTM 6063-T5 commercial quality.

2.7.4 Window Hardware

Provide manufacturer's standard hardware fabricated from aluminum, stainless steel, carbon steel complying with AAMA 907, or other corrosion-resistant material compatible with adjacent materials; designed to smoothly operate, tightly close, and securely lock windows from the inside, and sized to accommodate sash weight and dimensions.

2.7.5 Glazing

ASTM C1036, unless specified otherwise. In doors and sidelights, provide safety glazing material conforming to 16 CFR 1201. Two panes of glass separated by a dehydrated airspace, filled with argon gas, filled with krypton gas, and hermetically sealed, conforming to ASTM E2190. Submit performance and compliance documentation for each type of insulating glass.

2.7.6 Weatherstripping

Provide for all ventilating (operable) sash for all windows. Provide woven wool pile weatherstripping 5.3 millimeter 0.210 inch thick, conforming to AAMA 701/702, or polypropylene multifilament fiber weatherstripping installed in an integral weatherstripping groove in the sash or frame, and flexible polyvinylchloride weatherstripping installed in the sill member.

2.7.7 Window Anchors

Anchoring devices for installing windows must be made of aluminum, cadmium-plated steel, stainless steel, or zinc-plated steel conforming to AAMA/WDMA/CSA 101/I.S.2/A440.

2.7.8 Drips and Weep Holes

Provide continuous drips over heads of top ventilators. Where fixed windows adjoin ventilators, drips must be continuous across tops of fixed windows. Provide drips and weep holes as required to return water to the outside.

2.7.9 Finishes

Comply with NAAMM's "Metal Finishes Manual" for applying and designating finishes. Exposed aluminum surfaces must be factory finished with an anodic coating. All windows for building shall have the same finish, and finish that is color compatible with main building.

2.7.10 Screen

Provide one insect screen for each operable exterior sash or ventilator. Design screens to be rewirable, easily removable from outside the building. Manufacturers standard aluminum frame complying with SMA 1004 or SMA 1201. Fabricate frames with mitered or coped joints or corner extrusion, concealed fasteners and removable PVC spline/anchors concealing edge of frame.

2.7.11 Mullions

Provide mullions between multiple-window units where indicated. Provide profiles for mullions and mullion covers, reinforced as required for the specified wind loading, and securely anchored to the adjoining construction. Mullion extrusion will include serrations or pockets to receive weatherstripping, sealant, or tape at the point of contact with each window flange. Mullion assembly must include aluminum window clamps or brackets screwed or bolted to the mullion and the mullion cover.

Mullion cover must be screw-fastened to the mullion. Mullion reinforcing members must be fabricated of the materials specified in AAMA/WDMA/CSA 101/I.S.2/A440 and meet the specified design loading.

2.8 Insulated Steel Entry Door

Provide insulated steel doors and frames in accordance with SDI/DOOR 113 at the entrance. Meet energy requirements including Solar Heat Gain Coefficient (SHGC) and U-factor of 0.36. Provide insulated steel doors with a core of polyurethane foam; face sheets, edges, and frames of galvanized steel not lighter than 23 gage, 16 gage,

and 16 gage respectively; magnetic weatherstripping; nonremovable-pin hinges; thermal-break aluminum threshold; and vinyl door bottom. Provide to doors and frames a phosphate treatment, rust-inhibitive primer, and baked acrylic enamel finish. Test doors in accordance with SDI/DOOR A250.4 and meet the requirements for Level C. Prepare doors to receive specified hardware. Provide doors 1-3/4 inch thick.

2.8.1 Hardware

- a. Provide in accordance with ANSI/BHMA A156.13, Series 1000, Operational Grade 1, Security Grade 2.
- b. Provide hardware compatible with and keyed to accept Government standard Schlage Primus High Security key.

2.9 Paint

Latex, Exterior, Water Based, White - Master Painter Institute (MPI), "Approved Products List"

2.10 Worker Protection

At a minimum include the following items unless covered by more stringent requirements in regulations and requirements cited above:

- a. Disposable full body (Tyvek) protective suits.
- b. Disposable booties to cover shoes.
- c. Respirators with disposable HEPA filters.
- d. Disposable caps and gloves.
- e. Goggles to protect eyes.

2.10.1 Paint Removal Products

- a. Chemical Peel Method is to be used according to manufacturer's guidelines
- b. Paint Scrapers
- c. Sandpaper (Only to be used wet for final surface preparation)

2.10.2 Containment Products

- a. Polyethylene (min. 6 mil) plastic sheets, and bags
- b. Industrial stapling gun.
- c. Industrial grade waterproof duct tape, or equal.
- d. Garden sprayer.
- e. High Phosphate Cleaning Mixture (1 oz. of 5% Tri Sodium Phosphate (TSP)).
- f. High-efficiency Particulate Air Filter Vacuums (HEPA vacs).
- g. Approved disposal drums.

3. EXECUTION

3.0 Preparation for Demolition and Removal

3.0.1 Include the following measures, in addition to those called for in regulations and requirements cited above:

3.0.1.1 Containment of Lead Paint Particles:

a. Exterior Work Area: Particles and debris generated by stripping of the exterior are to be caught on plastic sheeting laid at base of exterior face of walls. This plastic sheeting is to consist of two layers of six mil (minimum) polyethylene plastic, which are overlapped six inches, taped together with duct tape, and weighted down on all sides. At the face of the wall, plastic sheet is to be secured to wall with tape or other means that will not leave marks on wall.

b. Interior Work Areas: Lead paint particles are to be caught before falling on work areas by two layers of polyethylene overlapped and taped as described above, but supported on scaffolding, or some sort of framing.

3.0.2 Personnel Protective Practices

a. Contractor and his personnel are to wear all required protective gear including as a minimum that listed in paragraph 2.11 above.

b. Contractor and his personnel shall remove, dispose, and double bag in six mil polyethylene plastic bags all protective clothing items at the end of each day in dressing room set aside for that purpose by the COR

c. Contractor personnel shall not eat or smoke in work area.

3.0.3 Minimizing Dust Generation

Contractor's personnel must use stripping and paint removal methods that will minimize the generation of lead particle dust by:

a. Only remove flaking material to complete repairs and application of roof coating or paint.

b. Dampening painted surfaces with a fine water mist from a garden sprayer during scraping and/or hand sanding.

c. Using only manual methods; wet sanding or vacuum sanding, no sandblasting will be allowed.

d. Using heat guns is not permitted

3.0.4 Disposal of Lead Particles and Debris

Clean debris and particles from surfaces as work progresses using high-efficiency particulate air filter vacuums (HEPA vacs), and wet washing with high phosphate cleaning mixture (see paragraph 2.11). By cleaning as work progresses the tracking of lead particles into non-contaminated areas and interception of particles before they fall can be accomplished.

3.1 Building Repairs: The Contractor shall supply all labor and materials to repair the interior and exterior of the structure.

3.1.1 The contractor shall remove a minimum of the lower 4 feet of the metal siding (interior and exterior, including the vertical end walls and north sliding door) and inspect the structural framing of the building. Contractor will be required to provide temporary supports for plumbing and electrical during construction. The inspection will require the removal of silt from the walls and soil from the east and north side of the building to a minimum width of 3 feet to a maximum depth of 1 foot. Hand removal will be required due to limited space. Soil will be stockpiled a minimum of 10 feet from the structure. The arched framing is 6-inch steel beam structural members spaced on approximately 4-foot centers with wood framed ceiling and entry door. Vertical end walls are steel beam, channel and/or tube. Assume that at least 25% of the lower 4 feet of framing will need to be repaired or replaced with like materials. Side entry door will require complete replacement of the wood siding and trim.

~~3.1.2 The contractor shall remove and replace the lower 4 feet of insulation from the south 50 feet of the building with ridged extruded polystyrene foam insulation board. Insulation thickness shall match the wall thickness between the inner and outer panels, approximately 6 inches.~~

3.1.2 Thermal Insulation Installation

3.1.2.1 Existing Conditions

Prior to installation, ensure all areas that are in contact with the insulation are dry and free of projections that could cause voids, compressed insulation, or punctured vapor retarders. Do not proceed with installation if moisture or other conditions are present, and notify the COR of such conditions. Do not proceed with the work until conditions have been corrected and verified to be dry.

3.1.2.2 Preparation

Provide noncombustible blocking at all spaces between heat producing devices and the floors, ceilings and roofs through which they pass. Provide in accordance with ICC IBC Section 2111.12 Fireplace Blocking and with the following clearances:

3.1.2.2.1 Vents and vent connectors used for venting products of combustion, flues, and chimneys other than masonry chimneys: Minimum clearances as required by NFPA 211.

3.1.2.2.2 Gas Fired Appliances: Clearances as required in NFPA 54.

3.1.2.3 Installation

3.1.2.3.1 Installation and Handling

Provide insulation in accordance with the manufacturer's printed installation instructions. Keep material dry and free of extraneous materials.

3.1.2.3.2 Electrical Wiring

Do not install insulation in a manner that would enclose electrical wiring between two layers of insulation.

3.1.2.3.3 Continuity of Insulation

Butt tightly against adjoining boards, studs, rafters, joists, sill plates, headers and obstructions. Provide continuity and integrity of insulation at corners, wall to ceiling joint, roof, and floor. Avoid creating thermal bridges and voids. Provide and verify continuity of insulative barrier throughout the building enclosure.

3.1.3 Following repair of the framing and insulation, new steel panels will be installed both interior and exterior to the height of the removed section and overlapped per the manufacture's recommendations.

3.2 Skylights

The contractor shall remove and replace the fiberglass skylight panels. The south 50 feet of the building shall have panels installed on the exterior and interior. The panels profile and coverage shall match the existing panels. The skylight panels shall be overlapped with the metal panels per the manufacture's recommendations. All installation shall provide a water tight barrier.

3.3 Electrical

The contractor shall install a new 120/240V 1PH 200-amp service entrance for the maintenance building. The new service will include but is not limited to a pole, masts, weather heads, meter, disconnect, service conductors, entrance conductors and conduit. Coordinate location with the COR and Evergy.

3.3.1 Demolition

Existing service entrance will be disconnected from the meter at the office building and removed. Buried wires and conduit may be abandoned in-place. Two Existing distribution panels conduit and conductors shall be removed. The exterior security light shall be removed and replaced following application of the roof coating or new metal panels.

3.3.2 Installation

The contractor shall install a new 120/240V 1PH 200-amp service entrance for the maintenance building. The new service will include but is not limited to a pole, masts, weather heads, meter, disconnect, service conductors, entrance conductors and conduit. Minimum mounting height of the meter and disconnect shall be 5 feet above the ground. The mast shall be sufficiently anchored to support the weight of the service if attached to the structure. Installation shall follow the service providers requirements listed in section 2.5.

3.3.2.1 The distribution panels shall be removed and replaced with a 200-amp 30 space commercial grade panel and breakers from a nationally recognized manufacturer. The new panel will be located approximately 18" higher the existing panel.

3.3.2.2 All existing circuits shall be reconnected with appropriately sized breakers to match the existing circuit size and may require extending or shorting to accommodate the new location. Supply and install four 20-amp single pole, one 30-amp double pole and one 40-amp double pole breakers in addition to reconnecting the existing circuits.

3.3.2.3 Install new commercial grade dusk to dawn, LED fixture and mounting arm. Installation will require a new branch circuit from the distribution panel to the fixture. Coordinate with COR for locations.

3.4 Option 1: Fluid-Applied Membrane

The contractor shall apply a commercial grade spray-on roofing membrane over the entire exterior of the structure (Arched roof, vertical end wall and side door), approximately 10,000 square feet. The coating shall be elastomeric fluid applied for use over metal roofs from a nationally recognized manufacturer. Coating shall be applied to a thickness sufficient to provide a 15-year material and workmanship warranty but not less than 25 mils of dry film thickness. All loose, flaking material shall be removed, damaged areas in the existing metal panels shall be repaired. Surface Preparation, primer, basecoat, and topcoat shall be in accordance with the manufacturer's recommendations.

The skylight panels shall be coated with a clear coating compatible with the skylight material and basecoat/topcoat of the roof coating. The overhead doors and windows shall be protected from overspray and drips.

3.5 Option 2: Replace Doors and Increase Door Height

The contractor shall replace the one exterior overhead door, one interior and one exterior sliding doors. The header for the south overhead and center sliding doors shall be raised as high as the ceiling framing and new door installation will allow. The existing header may be reused and shall be supported by new king and jack studs the full height of the opening. If not reused, the new header shall be steel beam or laminated veneer lumber of sufficient size to span the width of the door opening. Minor electrical relocation will be required. The contractor shall install three new overhead doors. The door construction may be sectional or rolling. The doors shall be sized to match the newly framed openings and existing opening for the north door. The doors shall be trimmed and finished to match the metal panels. A new commercial grade automatic door opener shall be installed on the south door. Coordinate with the COR for keypad locations.

3.5.1 Install overhead coiling door assembly, anchors and inserts for guides, brackets, motors, switches, hardware, and other accessories in accordance with approved detail drawings and manufacturer's written instructions. Upon completion of installation, ensure doors are free from all distortion.

3.5.2 After installation, adjust the hardware and moving parts. Lubricate bearings and sliding parts as recommended by manufacturer to provide smooth operating functions for ease movement, free of warping, twisting, or distortion of the door assembly. Adjust seals to provide a weather-tight fit around entire perimeter. Engage a factory-authorized service representative to perform startup service and checks according to the manufacturer's written instructions. Test the door opening and closing operation when activated by controls. Adjust controls and safeties. Replace damaged and malfunctioning controls and equipment. Reset the door-closing mechanism after a successful test. Test and make final adjustment of new doors at no additional cost to the Government.

3.5.3 Warranty

3.5.3.1 Furnish a written guarantee that the helical spring and counterbalance mechanism are free from defects in material and workmanship for not less than the manufactures specified warranty after completion and acceptance of the project.

3.5.3.2 Warrant that upon notification by the Government, any defects in material, workmanship, and door operation are immediately correct within the same time period covered by the guarantee, at no cost to the Government.

3.5.4 Operation And Maintenance

Submit 3 copies of the Operation and Maintenance Manuals 30 calendar days prior to testing the Overhead Coiling Door Assemblies. Update and resubmit data for final approval no later than 30 calendar days prior to contract completion.

3.5.4.1 Submit Operation and Maintenance Manuals for Overhead Coiling Door Assemblies, including the following items:

Materials

Devices

Manual Door Operators

Electric Door Operators

Hood

Counterbalancing Mechanism

Painting

Procedures

Manufacturer's Brochures

Parts Lists

3.5.4.2 Provide operation and maintenance manuals which are consistent with manufacturer's standard brochures, schematics, printed instructions, operating procedures, and safety precautions.

~~3.6 Option3: Replace Windows. The Contractor shall remove and replace the 4 existing windows. The replacement widows shall be metal framed, double hung, double pane and sized to match the existing opening. Security screens or bars shall be install on the exterior of the building covering each window or wired security glass may be installed in the window frame. The windows shall be trimmed and finished to match the metal panels.~~

3.6 Option 3: Replace Windows

The contractor shall remove and replace the 4 existing windows. Install in accordance with the window manufacturer's printed instructions and details. Set windows at proper elevation, location, and reveal; plumb, square, level, and in alignment; and brace, strut, and stay properly to prevent distortion and misalignment. Protect ventilators against accumulation of dirt and building materials by keeping ventilators tightly closed and locked to frame. Bed screws or bolts in sill members, joints at mullions, contacts of windows with sills, built-in fins, and subframes in mastic sealant of a type recommended by the window manufacturer. Install and caulk windows in a manner that will prevent entrance of water and wind. Any materials that show visual evidence of biological growth due to the presence of moisture must not be installed on the building project.

3.6.1 Anchors and Fastenings

Make provision for securing units to each other and to other adjoining construction.

3.6.2 Finishing

The windows shall be trimmed and finished to match the metal panels. Security screens or bars shall be installed on the exterior of the building covering each window or wired security glass may be installed in the window frame.

3.6.3 Adjustments After Installation

After installation of windows adjust all ventilators and hardware to operate smoothly and to provide weathertight sealing when ventilators are closed and locked. Lubricate hardware and operating parts as necessary. Adjust double hung windows to operate with maximum applied force of 25 pounds in either direction, not including breakaway friction force. Verify that products are properly installed, connected, and adjusted.

3.6.4 Cleaning

Clean interior and exterior surfaces of window units of mortar, plaster, paint spattering spots, and other foreign matter to present a neat appearance, to prevent fouling of weathering surfaces and weather-stripping, and to prevent interference with the operation of hardware. Replace all stained, discolored, or abraded windows that cannot be restored to their original condition with new windows.

~~3.7 Option 4: The Contractor shall paint the interior of the south 50 foot of the building with exterior grade white latex paint. All loose, flaking material shall be removed from the existing metal panels and wood framing and be prepared per the manufacture's recommendations. Paint which is not flaking or removed by manual scraping may remain and be primed over. The primer, basecoat and topcoat shall be applied per the manufacture's recommendations to a minimum dry film thickness of 1.5 mil each coat. The electrical, lighting, skylights, overhead doors, heating, water heater and windows shall be protected from overspray and drips.~~

3.7 Option 4: Interior Paint

The contractor shall paint the interior of the south 50 foot of the building with exterior grade white latex paint.

3.7.1 Prior to surface preparation and coating applications, remove, mask, or otherwise protect hardware, hardware accessories, plates, lighting fixtures, and other such items not to be coated that are in contact with surfaces to be coated. Following completion of painting, reinstall removed items. Restore surfaces contaminated by coating materials, to original condition and repair damaged items.

3.7.2 Remove dirt, splinters, loose particles, grease, oil, disintegrated coatings, and other foreign matter and substances deleterious to coating performance as specified for each substrate before application of paint or surface treatments. Paint which is not flaking or removed by manual scraping may remain and be primed over. Schedule cleaning so that dust and other contaminants will not fall on wet, newly painted surfaces. Spot-prime exposed ferrous metals such as nail heads on or in contact with surfaces to be painted with water-thinned paints, with a suitable corrosion-inhibitive primer capable of preventing flash rusting and compatible with the coating specified for the adjacent areas. Comply also with the application instructions of the paint manufacturer.

3.7.3 Unless otherwise specified or recommended by the paint manufacturer, paint may be applied by brush, roller, or spray. Use trigger operated spray nozzles for water hoses. Use rollers for applying paints and enamels of a type designed for the coating to be applied and the surface to be coated. Wear protective clothing and respirators when applying oil-based paints or using spray equipment with any paints.

3.7.4 Thoroughly work coating materials into joints, crevices, and open spaces. Pay special attention to ensure that all edges, corners, and crevices receive a film thickness equal to that of adjacent painted surfaces. Apply each coat of paint so that dry film is of uniform thickness and free from runs, drops, ridges, waves, pinholes or other voids, laps, brush marks, and variations in color, texture, and finish. Completely hide all blemishes.

3.7.5 Touch up damaged coatings before applying subsequent coats. Broom clean and clear dust from interior areas before and during the application of coating material.

3.7.5.1 Drying Time

Allow time between coats, as recommended by the coating manufacturer, to permit thorough drying, but not to present topcoat adhesion problems. Provide each coat in specified condition to receive next coat.

3.7.5.2 Primers, and Intermediate Coats

Do not allow primers or intermediate coats to dry more than 30 days, or longer than recommended by manufacturer, before applying subsequent coats. Follow manufacturer's recommendations for surface preparation if primers or intermediate coats are allowed to dry longer than recommended by manufacturers of subsequent coatings. Cover each preceding coat or surface completely by ensuring visually perceptible difference in shades of successive coats.

3.7.5.3 Finished Surfaces

Provide finished surfaces free from runs, drops, ridges, waves, laps, brush marks, and variations in colors.

3.7.6 Mixing and Thinning of Paints

Reduce paints to proper consistency by adding fresh paint, except when thinning is mandatory to suit surface, temperature, weather conditions, application methods, or for the type of paint being used. Obtain written permission from the COR to use thinners. Verify that the written permission includes quantities and types of thinners to use. When thinning is allowed, thin paints immediately prior to application with not more than 0.125 L of suitable thinner per liter. The use of thinner does not relieve the Contractor from obtaining complete hiding or full film thickness. Thinning cannot cause the paint to exceed limits on volatile organic compounds. Do not mix paints of different manufacturers.

3.7.7 Minimum Dry Film Thickness (DFT)

Apply paints and primers to a minimum dry film thickness of 1.5 mil each coat unless specified otherwise in the Tables. Coating thickness where specified, refers to the minimum dry film thickness.

3.7.8 Surfaces To Be Painted

Apply coatings conforming to the respective specifications listed in the Tables herein, except that pretreatments, sealers and fillers need not be provided on surfaces where existing coatings are soundly adhered and in good condition. Do not omit undercoats or primers.

3.7.8.1 MPI Division 6 Paint Table

New and existing dressed lumber, wood and plywood, trim.

LATEX					
New	Existing, uncoated	Primer	Intermediate	Topcoat	System DFT
MPI EXT 6.3A-G1 (Flat)	MPI EXT 6.3A-G1 (Flat)	MPI 5	MPI 10	MPI 10	125 microns 5 mils

MPI EXT 6.3 A-G5 (Semigloss)	MPI EXT 6.3B-G5 (Semigloss)	MPI 5	MPI 11	MPI 11	125 microns 5 mils
MPI EXT 6.3A-G6 (Gloss)	MPI EXT 6.3B-G6 (Gloss)	MPI 5	MPI 119	MPI 119	125 microns 5 mils
Topcoat: Coating to match adjacent surfaces.					

3.8 Option 5: Replace Side Entry Door

The contractor shall remove and replace the side entry door. The replacement door and frame shall be sized to match the existing opening. The door and frame shall be painted, trimmed, and finished to match the metal panels. Standalone Keypad Programmable Electronic lockset with key override shall be installed and keyed to match the Government's current high security key.

3.8.1 Installation

Set frames in accordance with SDI/DOOR A250.11. Plumb, align, and brace securely until permanent anchors are set. Anchor bottoms of frames with expansion bolts or powder-actuated fasteners. Build in or secure wall anchors to adjoining construction. Where frames require ceiling struts or overhead bracing, anchor frames to the struts or bracing.

3.8.2 Doors

Hang doors in accordance with clearances specified in SDI/DOOR A250.8. After erection and glazing, clean and adjust hardware.

3.8.3 Protection

Protect doors and frames from damage. Repair damaged doors and frames prior to completion and acceptance of the project or replace with new, as directed. Wire brush rusted frames until rust is removed. Clean thoroughly. Apply an all-over coat of rust-inhibitive paint of the same type used for shop coat.

3.8.4 Cleaning

Upon completion, clean exposed surfaces of doors and frames thoroughly. Remove mastic smears and other unsightly marks.

~~3.9 Option 6: The Contractor shall replace exterior metal panels and skylights with all new material.~~

~~3.9.1 The Contractor shall remove all exterior metal panels (arched roof, vertical end walls and side door).~~

~~3.9.2 Following repair of the framing and insulation, new steel panels will be installed on the entire exterior and the lower 4 feet of the interior. The interior steel panels shall be profile and coverage shall match the existing panels. The exterior panels shall be manufactured from aluminum-zinc alloy coated steel. The panel profile and coverage shall have a minimum height and width from the manufacture's standard for the profile and slope of the structure. The panels shall have sufficient length to cover the roof slope with minimal joints or seams. The panels shall have a factory applied finish free from defects after installation. Color selection for panels and trim will be from the manufacture's standard available colors. Elastomeric coating will not be required if this option is awarded.~~

~~3.9.3 The Contractor shall remove and replace the fiberglass skylight panels. The south 50 feet of the building shall have panels installed on the exterior and interior. The panels profile and coverage shall match the new panels. The skylight panels shall be overlapped with the metal panels per the manufacture's recommendations~~

3.9 Option 6: Metal Panels

3.9.1 Examination

Examine substrates, areas, and conditions, with Installer present, for compliance with requirements for installation tolerances, metal wall panel supports, and other conditions affecting performance of the work.

Examine primary and secondary wall framing to verify that steel or wooden supports, purlins, angles, channels, and other structural panel support members and anchorages have been installed within alignment tolerances required by

metal wall panel manufacturer. Examine solid wall sheathing to verify that sheathing joints are supported by framing or blocking and that installation is within flatness tolerances required by metal wall panel manufacturer.

Examine roughing-in for components and systems penetrating metal wall panels to verify actual locations of penetrations relative to seam locations of metal wall panels before metal wall panel installation. Submit to the COR a written report, endorsed by Installer, listing conditions detrimental to performance of the work. Proceed with installation only after unsatisfactory conditions have been corrected.

3.9.2 Preparation

Clean substrates of substances harmful to insulation, including removing projections capable of interfering with insulation attachment. Miscellaneous framing installation, including sub-purlins, girts, angles, furring, and other miscellaneous wall panel support members and anchorage must be according to metal wall panel manufacturer's written instructions.

3.9.3 Wall Panel Installation

Provide replacement full length metal wall panels unless restricted by shipping limitations. Anchor metal wall panels and other components of the work securely in place, with provisions for thermal and structural movement in accordance with Metal Building Manufacture's Association (MBMA) or Metal Building Systems Manual (MBSM).

Erect wall panel system in accordance with the printed instructions and safety precautions of the manufacturer. Sheets are not to be subjected to overloading, abuse, or undue impact. Bent, chipped, or defective sheets shall not be applied. Sheets must be erected true and plumb and in exact alignment with the horizontal and vertical edges of the building and securely anchored. Work is to allow for thermal movement of the wall panel, movement of the building structure, and to provide permanent freedom from noise due to wind pressure.

3.9.3.1 Field cutting metal wall panels by torch is not permitted.

3.9.3.2 Use manufacturer recommend fasteners for interior and exterior surfaces. Anchor metal wall panels and other components of the work securely in place, according to manufacturers' written instructions.

3.9.3.3 Metal Protection

Where dissimilar metals will contact each other or corrosive substrates, protect against galvanic action by painting contact surfaces with bituminous coating, by applying rubberized-asphalt underlayment to each contact surface, or by other permanent separation as recommended by metal wall panel manufacturer.

3.9.3.4 Joint Sealers

Install gaskets, joint fillers, and sealants where indicated and where required for weatherproof performance of metal wall panel assemblies. Provide types of gaskets, fillers, and sealants indicated or, if not indicated, types recommended by metal wall panel manufacturer.

3.9.4 Flashing, Trim and Closure Installation

3.9.4.1 General Requirements

Comply with performance requirements, manufacturer's written installation instructions, and Sheet Metal and Air Conditioning Contractors' National Association (SMACNA) 1793. Provide concealed fasteners where possible and set units true to line and level as indicated. Install work with laps, joints, and seams to form permanently watertight and weather resistant.

Install sheet metal work is to form weather-tight construction without waves, warps, buckles, fastening stresses or distortion, and allow for expansion and contraction. Cutting, fitting, drilling, and other operations in connection with sheet metal required to accommodate the work of other trades is to be performed by sheet metal mechanics.

3.9.4.2 Metal Flashing

Install exposed metal flashing at building corners, junctions between metal siding and walling. Exposed metal flashing must be the same material, color, and finish as the specified metal wall panel. Fasten flashing at a minimum of 8 inches on center, except where flashing is held in place by the same screws that secure covering sheets. Flashing is to be furnished in at least 8 foot lengths. Exposed flashing is to have 1 inch locked and blind-soldered end joints, and expansion joints at intervals of not more than 16 feet.

Exposed flashing and flashing subject to rain penetration to be bedded in the manufacturer's specified joint sealant. Isolate flashing which is in contact with dissimilar metals by means of the specified asphalt mastic material to prevent electrolytic deterioration.

3.9.4.3 Closures

Install metal closure strips at open ends of corrugated or ribbed pattern walls, and at intersection of wall and wall unless open ends are concealed.

3.9.5 Workmanship

Make lines, arises, and angles sharp and true. Free exposed surfaces from visible wave, warp, buckle, and tool marks. Make sheet metal exposed to the weather watertight with provisions for expansion and contraction. Make surfaces to receive sheet metal plumb and true, clean, even, smooth, dry, and free of defects and projections which might affect the application. For installation of items not shown in detail or not covered by specifications conform to the applicable requirements of SMACNA 1793. Provide sheet metal flashing in the angles formed where ventilators, pipes, or other vertical surfaces and necessary to make the work watertight.

3.9.6 Acceptance Provisions

3.9.6.1 Erection Tolerances

Erect metal wall panels straight and true with plumb vertical lines correctly lapped and secured in accordance with the manufacturer's written instructions.

3.9.6.2 Water Leakage Tests

Finished application of metal panels are to be subject to inspection and test for water leakage by request of the COR. Conduct inspection and tests at no cost to the Government. Inspection and testing is to be made promptly after erection to permit correction of defects and the removal and replacement of defective materials.

3.9.6.3 Repairs to Finish

Scratches, abrasions, and minor surface defects of finish may be repaired with the specified repair materials. Finished repaired surfaces must be uniform and free from variations of color and surface texture. Repaired metal surfaces that are not acceptable to the project requirements and/or COR are to be immediately removed and replaced with new material.

3.9.6.4 Paint-Finish Metal Siding

Paint-finish metal siding will be tested for color stability by the Contracting Officer during the manufacturer's specified guarantee period. Panels that indicate color changes, fading, or surface degradation, determined by visual

examination, must be removed and replaced with new panels at no expense to the Government. New panels will be subject to the specified tests for an additional year from the date of their installation.

3.9.6.5 Field Quality Control

Construction Monitoring

Make visual inspections as necessary to ensure compliance with specified requirements. Additionally, verify the following:

- a. Materials comply with the specified requirements.
- b. All materials are properly stored, handled and protected from damage. Damaged materials are removed from the site.
- c. Framing and substrates are in acceptable condition, in compliance with specification, prior to application of wall panels.
- d. Panels are installed without buckles, ripples, or waves and in uniform alignment and modulus.
- e. Side laps are formed, sealed, fastened or seam locked as required.
- f. The proper number, type, and spacing of attachment clips and fasteners are installed.
- g. Installer adheres to specified and detailed application parameters.
- h. Associated flashing and sheet metal are installed in a timely manner in accord with the specified requirements.

3.9.7 Clean Up and Disposal

Clean all exposed sheet metal work at completion of installation. Remove metal shavings, filings, nails, bolts, and wires from work area. Remove grease and oil films, excess sealants, handling marks, contamination from steel wool, fittings and drilling debris and scrub the work clean. Exposed metal surfaces must be free of dents, creases, waves, scratch marks, solder or weld marks, and damage to the finish coating.

Collect and place scrap/waste materials in containers. Promptly dispose of demolished materials. Do not allow demolished materials to accumulate on-site; transport demolished materials from government property and legally dispose of them.

3.10 Acceptance Provisions

3.10.1 Upon project completion the building shall be broom clean.

3.10.2 Repairs to Building

Scratches, abrasions, and minor surface defects of finish may be repaired with the specified repair materials and as recommended by the individual product manufacturer. Finished repaired surfaces must be uniform and free from variations of color and surface texture. Repaired metal surfaces that are not acceptable to the project requirements are to be immediately removed and replaced with new material.

3.10.3 Repairs to Site

The contractor shall be responsible for the repair of any damage to existing site areas which may result from their work. Such repairs shall be made in a timely manner, with minimum inconvenience

to USACE and the users of the site. Where site areas have been disturbed or damaged, the damaged areas, ruts and depressions shall be harrowed and graded.

3.10.4 Complete Post- inspection with the COR of all work prior to acceptance.

3.10.5 Submit post inspection documentation within 10 working days. The COR may, at his or her discretion, suspend any further work if post- installation documentation is not submitted within 10 working days. As a result of this suspension, no additional working days will be added to the Contract, nor will any adjustment be made for increase in cost.

3.10.6 Submit red-lined drawings for all work, showing complete detail and dimensions within 30 days of project completion. Drawings shall be submitted in .pdf format on USACE approved template. USACE will provide at the Contractors request both the .pdf and CADD template. Red-Lined drawings shall be submitted in the same packet as the original contract drawings with all information updated. This includes any additional drawing numbers updated on the title page. Final payment will not be made until all drawings and details have been submitted and approved.

3.10.6.1 The Contractor shall provide all shop drawings for all installed products.

3.10.6.2 Red-lined drawings shall exhibit locations of steel panels that have been replaced, openings that have been altered, building repairs that have been made, and electrical schematics.

3.10.7 Include the identification of the work completed on one set of Contract Drawings. Keep legible red line drawings on the project site at times and maintain them as the work progresses. Continuously update the red line drawings with accurate dimensions and notations concerning location, size, height, width, length, and material types.

-----End of Document-----

The following have been deleted:
STATEMENT OF WORK

(End of Summary of Changes)