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TECHNICAL SPECIFICATIONS
Montana Fish, Wildlife and Parks
Region 5 HQ Carpet Replacement 2019

FWP# 7139125

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SECTION 01010 - SUMMARY OF WORK

PART 1 GENERAL

1.1 SECTION INCLUDES

- A. Owner and Contractor Responsibilities
- B. Contractor use of site and premises.
- C. Scope of Work

1.2 Owner and Contractor Responsibilities

- A. Owners Responsibilities:
 - 1. Provide access and staging areas.
 - 2. Project Inspection
 - 3. Coordination of work schedule with regional office.
- B. Contractors Responsibilities:
 - 1. Quality control of work.
 - 2. Coordination with FWP Region 5 Project Manager Thomas M. Mannatt
 - 3. Each Contractor should visit the job site to verify measurements and to become fully aware of the conditions relating to the project and the labor requirements. Failure to do so will not relieve the successful Contractor of their obligations to furnish all materials and labor necessary to carry out the provisions of the contract.

1.3 CONTRACTOR USE OF SITE

- A. Limit use of site to allow:
 - 1. Coordinate with FWP to limit usage in work areas as necessary.

1.4 SCOPE OF WORK

- A. Project Objective: Remove existing carpet in designated areas and install new carpet and accessories
- B. Scope of Work: Replace carpet in office areas shown on the plan sheets at the at the Montana Fish, Wildlife and Parks Region 5 Headquarters located at 2300 Lake Elmo Drive, Billings, MT. The Contractor is responsible to inspect site conditions prior to bidding.

FWP personnel will not be available to assist with moving furniture or equipment. Prospective contractors must include costs of moving and replacing furniture in the total bid price. Any computers, or other sensitive items, will be disconnected and prepared for moving by FWP personnel. FWP personnel may elect to move particular pieces of furniture or other sensitive equipment. Although movement of furniture is not limited to, large bookshelves that need to be moved as part of this project are shown on sheet 2 of 3 of the Plans.

Placement of carpeting is unable to begin until the existing exhibit items are relocated, electrical upgrades and all wall repairs are completed. A notice to proceed will not be issued until these items are completed. The notice to proceed date will be determined between the owner and the contractor.

Work includes the following but is not limited to the general description contained herein:

BASE BID ITEMS:

- 1. Carpet Replacement: Perform all work to complete the carpet replacement in the designated areas as described in these plans and specifications.
- C. Contracts: All work shall be done under one general contract.

END OF SECTION

SECTION 01019 - CONTRACT CONSIDERATIONS

PART 1 GENERAL

1.1 SECTION INCLUDES

- A. Application for Payment
- B. Change procedures
- C. Environmental Considerations

1.2 RELATED SECTIONS

- A. Section 01025 - Measurement and Payment.
- B. Section 01400 - Quality Control

1.3 APPLICATIONS FOR PAYMENT

- A. Submit 1 copy of each application on Department Fish, Wildlife and Parks Form 101.
- B. Content and Format: Bid Items on proposal form for listing items in Application for Payment.
- C. Payment Period: 30 days.

1.4 CHANGE ORDER PROCEDURES

- A. The Engineer will advise of minor changes in the Work not involving an adjustment to Contract Sum/Price or Contract Time as authorized by State of Montana, General Conditions of the Contract.
- A. The Engineer may issue a Change Directive, which includes a detailed description of a proposed change with supplementary or revised Drawings and specifications, a change in Contract Time for executing the change. Contractor will prepare and submit an estimate within 5 days.
- C. The Contractor may propose changes by submitting a request for change to the Engineer describing the proposed change and its full effect on the Work. Include a statement describing the reason for the change, and the effect on the Contract Sum/Price and Contract Time with full documentation and a statement describing the effect on Work by separate or other contractors.
- D. Unit Price Change Order: For pre-determined unit prices and quantities, the Change Order will be executed on a fixed unit price basis. For unit costs or quantities of units, which are not pre-determined, execute Work under a Construction Change Directive. Changes in contract sum/price or contract time will be computed as specified for time and material change order. Typically, work shall not be executed until total price is agreed upon.

1.5 ENVIRONMENTAL CONSIDERATIONS

- A. All material removed from the site will be disposed of in a safe and legal manner.
- B. Material removed from building and waste material from carpet replacement will be removed from the site daily.

END OF SECTION

SECTION 01025 - MEASUREMENT AND PAYMENT

PART 1 GENERAL

1.1 SECTION INCLUDES

- A. Measurement and payment criteria applicable to the Work performed under a unit price payment method.
- B. Defect assessment and non-payment for rejected work.

1.2 AUTHORITY

- A. Measurement methods delineated in the individual specification sections are intended to complement the criteria of this section. In the event of conflict, the requirements of the individual specification section shall govern.
- B. Take all measurements and compute quantities. The Engineer will verify measurements and quantities.

1.3 UNIT QUANTITIES SPECIFIED

- A. Unit price quantities and measurements indicated in the Bid Form are for bidding and contract purposes only. Quantities and measurements supplied or placed in the Work and verified by the Engineer shall determine payment.
- B. If the actual Work requires more or fewer quantities than those quantities indicated, provide the required quantities at the unit sum/prices contracted.

1.4 MEASUREMENT OF QUANTITIES

- A. Measurement by Area: Measured by linear dimension using mean length and width.

1.5 PAYMENT

- A. Payment Includes: Full compensation for all required labor, Products, tools, equipment, transportation, services and incidentals; application or installation of an item of the Work; overhead and profit.
- B. Final payment for Work governed by unit prices will be made on the basis of the actual measurements and quantities accepted by the Engineer multiplied by the unit price for Work as shown on the Bid Form.

1.6 DEFECT ASSESSMENT

- A. Replace the Work, or portions of the Work, not conforming to specified requirements.
- B. If, in the opinion of the Engineer it is not practical to remove and replace the Work, the Engineer will direct one of the following remedies:
 - 1. The defective Work will be repaired to the instructions of the Montana Department of Fish, Wildlife and Parks Engineer and the unit sum/price will be adjusted to a new sum/price at the discretion of the Montana Department of Fish, Wildlife and Parks Project Engineer.
 - 2. The defective work will not be repaired. The Project Engineer will adjust the unit sum/price of the work to reflect the degree of defectiveness and subsequent serviceability.
- C. The individual specification sections may modify these options or may identify a specific formula or percentage sum/price reduction.

- D. The authority of the Montana Department of Fish, Wildlife and Park Project Engineer to assess the defect and identify payment adjustment, is final.

1.7 NON-PAYMENT FOR REJECTED PRODUCTS

- A. Payment will not be made for any of the following:
 - 1. Products wasted or disposed of in a manner that is not acceptable.
 - 2. Products determined as unacceptable before or after placement.
 - 3. Products not completely unloaded from the transporting vehicle.
 - 4. Products placed beyond the lines and levels of the required Work.
 - 5. Products remaining on site after completion of the Work in excess of the amount required.
 - 6. Loading, hauling and disposing of rejected Products.

END SECTION

SECTION 01039 COORDINATION AND MEETINGS

PART 1 GENERAL

1.1 SECTION INCLUDES

- A. Coordination.
- B. Alteration project procedures.
- C. Preconstruction conference.

1.2 COORDINATION

- A. Coordinate scheduling, submittals, and Work to assure efficient and orderly sequence of installation of interdependent construction elements, with provisions for accommodating items installed later.
- B. Coordinate completion and cleanup of Work in preparation for Substantial Completion.
- C. After Owner occupancy of site, coordinate access to site for correction of defective Work and Work not in accordance with Contract Documents, to minimize disruption of Owner's activities.
- D. Contractor will coordinate all work activities with the Montana Department of Fish, Wildlife and Parks Project Manager Thomas M. Mannatt.

1.3 PRECONSTRUCTION CONFERENCE

- A. Engineer will schedule a conference after Notice of Award is issued.
- B. Attendance Required: Engineer, Contractor and the Regional Fish, Wildlife and Parks representative when possible.
- C. Agenda:
 - 1. Execution of Owner-Contractor Agreement.
 - 2. Submission of executed bonds and insurance certificates.
 - 3. Distribution of Contract Documents.
 - 4. Submission of list of Subcontractors, list of products, Schedule of Values, and progress schedule.
 - 5. Designation of personnel representing the parties in Contract, and the Engineer.
 - 6. Procedures and processing of field decisions, submittals, substitutions, applications for payments, proposal request, Change Orders and Contract closeout procedures.
 - 7. Scheduling.

END OF SECTION

SECTION 01400 QUALITY CONTROL

PART 1 GENERAL

1.1 SECTION INCLUDES

- A. Quality assurance and control of installation.
- B. References
- C. Inspection

1.2 QUALITY ASSURANCE/CONTROL OF INSTALLATION

- A. Monitor quality control over suppliers, manufacturers, products, services, site conditions, and workmanship, to produce work of specified quality.
- B. Comply fully with manufacturers' instructions, including each step in sequence.
- C. Should manufacturers' instructions conflict with Contract Documents, request clarification from Architect/Engineer before proceeding.
- D. Comply with specified standards as a minimum quality for the Work except when more stringent tolerances, codes, or specified requirements indicate higher standards or more precise workmanship.
- E. Perform work by persons qualified to produce workmanship of specified quality.
- F. Secure Products in place with positive anchorage devices designed and sized to withstand stresses, vibration, physical distortion or disfigurement.
- G. The contractor shall adequately protect the work, adjacent property, and the public in all phases of the work. They shall be responsible for all damages or injury due to their action or neglect.

1.3 REFERENCES

- A. Conform to reference standard with the most current date of issue.
- B. Should specified reference standards conflict with Contract Documents, or Regulations request clarification for Architect/Engineer before proceeding.
- C. The contractual relationship of the parties to the Contract shall not be altered from the Contract Documents by mention or inference otherwise in any reference document.

1.4 INSPECTION

- A. FWP Engineer will perform periodic field inspections.

END OF SECTION

SECTION 01560 TEMPORARY CONTROLS

PART 1 GENERAL

1.1 SECTION INCLUDES

- A. Dust Control
- B. Pollution Control
- C. Safety and Traffic Control

1.2 RELATED SECTIONS

- A. Section 01010 - Summary of Work
- B. Section 01039 - Coordination and Meetings

1.3 DUST CONTROL

- A. Contractor shall coordinate work activities and daily waste removal to minimize the dust created from carpet removal.

1.4 POLLUTION CONTROL

- A. Provide methods, means, and facilities to prevent contamination of atmosphere from discharge of noxious, toxic substances, and pollutants produced by construction operations.

1.5 SAFETY AND TRAFFIC CONTROL

- A. Provide all temporary signing, personnel and traffic control devices as required by federal, state and local regulations.

END OF SECTION

SECTION 01600 MATERIAL AND EQUIPMENT

PART I GENERAL

1.1 SECTION INCLUDES

- A. Products.
- B. Transportation and handling.
- C. Storage and protection.
- D. Substitutions.

1.2 PRODUCTS

- A. Products: Means new material, components, and systems forming the Work. Does not include machinery and equipment used for preparation, fabrication, conveying and erection of the Work. Products may also include existing materials or components required for reuse.
- B. Do not use materials and equipment removed from existing premises, except as specifically permitted by the Contract Documents.

1.3 TRANSPORTATION AND HANDLING

- A. Transport and handle products in accordance with manufacturer's instructions.
- B. Promptly inspect shipments to assure that products comply with requirements, quantities are correct, and products are undamaged.
- C. Provide equipment and personnel to handle products by methods to prevent soiling, disfigurement, or damage.

1.4 STORAGE AND PROTECTION

- A. Store and protect products in accordance with manufacturer's instructions, with seals and labels intact and legible. Store sensitive products in weather-tight, climate-controlled enclosures.
- A. Cover products subject to deterioration with impervious sheet covering. Provide ventilation to avoid condensation.
- C. Provide equipment and personnel to store products by methods to prevent soiling, disfigurement, or damage.

1.5 SUBSTITUTIONS

- A. Engineer will consider requests for Substitutions only within 15 days after date established in Notice to Proceed.
- B. Substitutions may be considered when a product becomes unavailable through no fault of the Contractor.
- C. Document each request with complete data substantiating compliance of proposed Substitution with Contract Documents.
- D. A request constitutes a representation that the Contractor:
 - 1. Has investigated proposed product and determined that it meets or exceeds the quality level of the specified product.

2. Will provide the same warranty for the Substitution as for the specified product.
 3. Will coordinate installation and make changes to other Work which may be required for the Work to be complete with no additional cost to Owner.
 4. Waives claims for additional costs or time extension which may subsequently become apparent.
- E. Substitutions will not be considered when they are indicated or implied on shop drawing or product data submittals, without separate written request, or when acceptance will require revision to the Contract Documents.
- F. Substitution Submittal Procedure:
1. Submit three copies of request for Substitution for consideration. Limit each request to one proposed Substitution.
 2. Submit shop drawings, product data, and certified test results attesting to the proposed product equivalence.
 3. The Engineer will notify Contractor, in writing, of decision to accept or reject request.

END OF SECTION

SECTION 01700
CONTRACT CLOSEOUT

PART 1 GENERAL

1.1 SECTION INCLUDES

- A. Closeout procedures.
- B. Final cleaning.
- C. Adjusting.
- D. Project record documents.

1.2 CLOSEOUT PROCEDURES

- A. Notify the Engineer within 5 days of Work completion that Work is complete in accordance with Contract Documents and ready for Project Manager's final inspection.
- B. Provide submittals to Engineer that are required by governing or other authorities or Owner.
- C. Submit final Application for Payment identifying total adjusted Contract Sum, previous payments, and sum remaining due. Include Certificate of Substantial Completion, Affidavit on Behalf of the Contractor, Consent of Surety Company to Final Payment and As-built drawings and specifications.
- D. Owner will occupy all portions of the site.

1.3 FINAL CLEANING

- A. Execute final cleaning prior to final inspection.
- B. Clean equipment and fixtures to previous condition.
- C. Clean site, rake clean landscaped areas, leave all disturbed areas relatively smooth with no wheel tracks, ridges or ruts.

1.4 PROJECT RECORD DOCUMENTS

- A. Maintain on site, one set of the following record documents; record actual revisions to the Work:
 - 1. Contract Drawings.
 - 2. Specifications.
 - 3. Addenda.
 - 4. Change Orders and other Modifications to the Contract.
 - 5. Reviewed shop drawings, product data, and samples.
- B. Store Record Documents separate from documents used for construction.
- C. Record information concurrent with construction progress.
- D. Specifications: Legibly mark and record at each Product section description of actual Products installed, including the following:
 - 1. Manufacturer's name and product model and number.
 - 2. Product substitutions or alternates utilized.

3. Changes made by Addenda and Modifications.
- E. Record Documents and Shop Drawings: Legibly mark each item to record actual construction including:
1. Field changes of dimension and detail.
 2. Details not on original Contract drawings.
 3. Product substitutions or alternates utilized.
 4. Changes made by Addenda and Modifications.
- F. Submit documents to Engineer with claim for final Application for Payment.

1.5 WARRANTIES

- A. All work shall be warranted free from defect for a period of one year from final acceptance date.

END OF SECTION

SECTION 096813
TILE CARPETING

PART 1 GENERAL

1.1 SECTION INCLUDES

- A. Carpet tile, fully adhered.
- B. Removal of existing flooring and installation preparation.

1.2 RELATED REQUIREMENTS

- A. Drawings and general provisions of the Contract.

1.3 REFERENCE STANDARDS

- A. ASTM D2859 - Standard Test Method for Ignition Characteristics of Finished Textile Floor Covering Materials; 2006 (Reapproved 2011).
- B. ASTM F710 - Standard Practice for Preparing Concrete Floors to Receive Resilient Flooring; 2011.
- C. CRI 104 - Standard for Installation of Commercial Carpet; 2015.

1.4 SUBMITTALS

- A. See Section 01300 - Submittals, for submittal procedures.
- B. Product Data: Provide data on specified products, describing physical and performance characteristics; sizes, patterns, colors available, and method of installation.
- C. Shop Drawings: Indicate layout of joints.
- D. Samples: Submit two carpet tiles illustrating color and pattern design for each carpet color selected.
- E. Manufacturer's Installation Instructions: Indicate special procedures, perimeter conditions requiring special attention, and recommended adhesive.
- F. Maintenance Data: Include maintenance procedures, recommended maintenance materials, and suggested schedule for cleaning.
- G. Maintenance Materials: Furnish the following for Owner's use in maintenance of project.
 - 1. Extra Carpet Tiles: Quantity equal to 5 percent of total installed of each color and pattern installed but no less than 5 tiles each, whichever is greater.

1.5 QUALITY ASSURANCE

- A. Manufacturer Qualifications: Company specializing in manufacturing specified carpet tile with minimum three years documented experience.
- B. Installer Qualifications: Company specializing in installing carpet tile with minimum three years documented experience and approved by carpet tile manufacturer.

1.6 FIELD CONDITIONS

- A. Store materials in area of installation for minimum period of 24 hours prior to installation.

PART 2 PRODUCTS

2.1 MANUFACTURERS

- A. Tile Carpeting:
 - 1. Basis of Design : Mohawk Group or equal products from Shaw contract etc.
 - 2. Substitutions: See Section 016000 – Material and Equipment

2.2 MATERIALS

- A. Tile Carpeting: Tufted, manufactured in one color dye lot.
 - 1. Product:GT170 HorsePower 2 tile
 - 2. Color: 879 Victory Lane
 - 3. Tile Size: 24x24 inch, nominal.
 - 4. Finished Pile Thickness: 0.123 inches(3.12mm)
 - 5. Average Density: 6439
 - 6. Tufted weight: 22 oz per square yard
 - 7. Fiber: duracolor nylon
 - 8. Construction: textured pattern cut & loop
 - 9. Gage:1/12 (47 rows per 10 cm)
 - 10. Stitches 11.3 (44.49 per 10 cm)
 - 11. Primary Backing Material: ecoflex nxt

2.3 ACCESSORIES

- A. Sub-Floor Filler: White premix latex; type recommended by flooring material manufacturer.
- B. Edge Strips: Embossed aluminum, color as selected by Architect.
- C. Adhesives:
 - 1. Compatible with materials being adhered; maximum VOC content of 50 g/L; CRI (GLP) certified; in lieu of labeled product, independent test report showing compliance is acceptable.
- D. Carpet Tile Adhesive: Recommended by carpet tile manufacturer; releasable type.
- E. Cove Base: 4-1/2 inch Cove Base by Johnsonite or equal. Existing wooden cove base to remain with balance to receive 4-1/2" Johnsonite rubber base.

PART 3 EXECUTION

3.1 EXAMINATION

- A. Verify that sub-floor surfaces are smooth and flat within tolerances specified for that type of work and are ready to receive carpet tile.
- B. Verify that wall surfaces are smooth and flat within the tolerances specified for that type of work, are dust-free, and are ready to receive finish product.
- C. Verify that sub-floor surfaces are dust-free and free of substances that could impair bonding of adhesive materials to sub-floor surfaces.
- D. Cementitious Sub-Floor Surfaces: Verify that substrates are dry enough and ready for flooring installation by testing for moisture and ph.
 - 1. Obtain instructions if test results are not within limits recommended by flooring material manufacturer and adhesive materials manufacturer.
- E. Verify that required floor-mounted utilities are in correct location.

3.2 PREPARATION

- A. Remove all furniture not permanently affixed to the floor from the immediate areas to be carpeted and temporarily relocate all objects within the FWP Headquarters building to locations agreed to by FWP
- B. All loose or incidental items from desks, shelves, display cases, etc. will be boxed by FWP personnel. Any computers or other sensitive items will be disconnected and prepared for moving by FWP personnel.
- C. Remove existing carpet material.
- D. Prepare floor substrates as recommended by flooring and adhesive manufacturers.

- E. Remove sub-floor ridges and bumps. Fill minor or local low spots, cracks, joints, holes, and other defects with sub-floor filler.
- F. Apply, trowel, and float filler to achieve smooth, flat, solid surface. Prohibit traffic until filler is cured.
- G. Vacuum clean substrate.
- H. Contractor shall notify FWP immediately in writing of any conditions that will prevent the completion of a satisfactory installation of the carpet. By installing the carpet, the contractor assumes responsibility for the quality of the installation.

3.3 INSTALLATION

- A. Starting installation constitutes acceptance of sub-floor conditions.
- B. Install carpet tile in accordance with manufacturer's instructions.
- C. Blend carpet from different cartons to ensure minimal variation in color match.
- D. Cut carpet tile clean. Fit carpet tight to intersection with vertical surfaces without gaps.
- E. Lay carpet tile in approved pattern.
- F. Locate change of color or pattern between rooms under door centerline.
- G. Fully adhere carpet tile to substrate.
- H. Trim carpet tile neatly at walls and around interruptions.
- I. Complete installation of edge strips, concealing exposed edges.

3.4 CLEANING

- A. Remove excess adhesive without damage, from floor, base, and wall surfaces.
- B. Clean and vacuum carpet surfaces.

END OF SECTION