

SPECIFICATIONS

**South Post Housing
Flooring and Painting
IDIQ FY18 – FY23
FORT MCCOY, WISCONSIN**

PROJECT NO: 1561

DRAWING NO: 47-018-1561



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GENERAL REQUIREMENTS

PART 1 GENERAL

1.1 SUMMARY OF THE WORK

A. GENERAL

1. All construction debris shall be cleaned up daily.
2. Secure all tools and equipment offsite at the end of each work day.

B. REMOVAL WORK: Remove all items indicated on the drawings and in the specifications and dispose of off Post at the Contractor's expense including but not limited to:

1. Remove carpet, pad, tack strip, underlayment, and resilient flooring as required for each delivery order.
2. Remove base board and store for re-installation.
3. Remove appliances and bathroom fixtures and store for re-installation. Verify that appliances and fixtures work properly prior to removal.

C. NEW WORK: Contractor shall provide all labor, equipment, materials, transportation, and supervision necessary to perform the work under this contract including but not limited to:

1. Install new carpet, pad, tack strip, underlayment, porcelain tile, and Luxury Vinyl Tile as required for each delivery order.
2. Re-install base board after flooring install.
3. Re-install appliances and fixtures removed for flooring replacement.
4. Paint, stain, or polyurethane areas indicated for each delivery order. This work includes ceilings, walls, cabinets, wood or steel doors, interior or exterior trim, decks, interior or exterior railing, and siding.
5. Occupants will be responsible to remove personal items before work is performed.

D. REPAIR WORK: Contractor shall repair any damages caused by this construction, including but not limited to;

1. Repair any existing construction which is damaged.
2. Repair any landscaping including trees, shrubs, flowers, and grass.
3. Repair vehicle ruts. Level the ruts, place topsoil, and seed the disturbed areas according to the specifications.

1.2 BUILDINGS

- A. Existing buildings will not be occupied during the performance of the contract.

1.3 ABBREVIATIONS

- A. "KO" = Contracting Officer.
- B. "COR" = Contracting Officer's Representative.
- C. Industry Standard Abbreviations - See Section 01007.

1.4 TEMPORARY UTILITIES AND FACILITIES

- A. The work of this contract will be performed in Army Family Housing homes.
 - 1. The contractor may utilize outlets for hand tools. Government electricity shall not be used to charge equipment or vehicles.
 - 2. Temporary electricity, if required for a job trailer, shall be provided by the Contractor by portable generator or temporary power pole. The cost of the generator and fuel and/or temporary power pole shall be the responsibility of the Contractor. The cost of electricity used if the Contractor provides a temporary power pole will be provided by the Government at no cost to the Contractor. The Contractor shall contact Xcel Energy for temporary power. Construction trailers will not be located in the Housing area.
 - 3. Heating and cooling will be provided by the home HVAC system. The Contractor shall not waste energy during the performance of this contract.
 - 4. Water is available in each home. Contractor shall not cause water to be wasted or left running when not in use. Leaks will be repaired immediately. Freeze protection shall be provided by the contractor.
- B. Temporary Telephone Service
 - 1. If the Contractor requires phone service for this project, the Contractor must contact the phone company business office:

Century Telephone
205 5th Avenue
LaCrosse, Wisconsin 54601
(800) 872-4017
 - 2. The Contractor shall pay for all telephone installation, maintenance, removal, and usage charges.
 - 3. The Contractor is responsible for providing and paying for any and all subcontractor's calls.
 - 4. Existing telephones owned or rented by the Government will not be used by the Contractor under any circumstances.
- C. Temporary Water
 - 1. Water for construction purposes is available from an existing water connection in the building scheduled for work to be performed. Capacity is estimated to be not less than 10 GPM at 45 psi. Water is city water quality and contains sodium hypochlorite.

2. Contractor shall not cause water to be wasted or left running when not in use. Leaks will be repaired immediately.
 3. The water used will be furnished by the Government.
- D. Temporary Sanitary Facilities
1. Existing sanitary facilities in Government homes will not be used by the Contractor's personnel.
 2. Contractor may utilize the public restroom, Building 6166 located in Patriot Park, as their on-site facility. This restroom will be open to all public and must be kept clean at all times. Contractor will not be allowed to utilize the restroom facility to clean any equipment.
 3. Contractor will not locate a portable toilet in the Housing area.
- E. Temporary Enclosures – Not Applicable
- F. Barriers and Fences – Not Applicable
- G. Security
1. The Contractor shall provide all materials, labor, and equipment to protect the project site from theft and vandalism.
 2. Home shall be protected by the Contractor during the contract. The degree of protection shall not be less than what currently exists.
 3. Storage of construction materials is at the risk of the Contractor.
- H. Access Roads and Parking Areas
1. Contractor's private vehicles shall be parked at locations designated by the COR.
 2. All construction vehicles and Contractor's private vehicles will be parked in an orderly manner at all times and will not block normal traffic in the area. Private vehicles belonging to the contract personnel will be parked in designated parking areas and in no case on grass areas, adjacent to buildings, or along streets.
 3. Contractor is responsible for any snow removal required for access or site work.
- I. Access and General Protection/Security Policy and Procedures
1. The contractor and all associated subcontractors' employees shall provide all information required for background checks to meet installation access requirements to be accomplished by Director of Emergency Services or Security Office. Contractor workforce must comply with all personal identity verification requirements (FAR clause 52.204-9, Personal Identity Verification of Contractor Personnel) as directed by DOD, HQDA and /or local policy. The contractor and all associated subcontractors' employees shall also comply with adjudication standards and procedures using the National Crime Screening Database (TSDB) (Army Directive 2014-05/AR 190-13), applicable installation, facility and area commander installation /facility access and local security policies and procedures (provided by government representative). In addition to the changes otherwise authorized by the changes clause of this contract, should the Force Protection Condition (FPCON) at any individual facility or installation change, the Government may require changes in contractor security matters or processes. The

Government may require monthly participation in the Installation Random Antiterrorism Program.

J. Contractor's Requiring Common Access Card (CAC)

1. Before CAC issuance, the contractor employee requires, at a minimum, a favorably adjudicated National Agency Check with Inquiries (NACI) or an equivalent or higher investigation in accordance with Army Directive 2014-05. The contractor employee will be issued a CAC only if duties involve one of the following: (1) Both physical access to a DOD facility and access, via logon, to DOD networks on-site or remotely; (2) Remote access, via logon, to a DOD network using DOD-approved remote access procedures; or (3) Physical access to multiple DOD facilities or multiple non-DOD federally controlled facilities on behalf of the DOD on a recurring basis for a period of 6 months or more. At the discretion of the sponsoring activity, an initial CAC may be issued based on a favorable review of the FBI fingerprint check and a successfully scheduled NACI.

K. Traffic Work – Not Applicable

L. Waste Reporting

1. The Army has established the requirement for a 50% minimum diversion rate by weight of C&D waste from landfill disposal. In order to achieve those results the Contractor shall submit a solid waste management plan as a required submittal for projects costing over \$100,000. At a minimum, the solid waste plan shall include the anticipated waste streams and disposal/recycling facilities. No work shall begin until the Contractor has an approved plan.
2. The Contractor shall submit reports to the Contracting Officer quantifying the total pounds of hazardous, universal, recycled, and non-regulated waste disposed of during the duration of the contract. Contractor shall also submit material(s) disposal location(s).
3. Reporting shall be specific to the month in which waste was disposed of and separated per waste type for Fort McCoy's reporting requirements.
4. Reporting for recycled waste shall also be specific to how much revenue the Contractor received for each type of recycled material.

M. Refuse Disposal and Recycling

1. Provide all solid waste disposal associated with this contract, including but not limited to the container delivery, removal, and disposal fees. Items included under this section are all solid wastes as defined by Wisconsin State Statute 289.01 (33). These items shall be disposed in a licensed sanitary landfill or recycling center in accordance with State of Wisconsin Administrative Code Chapter NR500 series.
2. The Contractor is allowed to use Fort McCoy recycling facilities for concrete and trees/woody waste. If materials are recycled at Fort McCoy, provide all labor and delivery to the designated recycling facilities. Materials shall be weighed and weigh slips provided to the COR to receive credit toward the 50% requirement in "Waste Reporting" above. Materials not weighed can be delivered to the designated recycling facilities, but the material will not count toward the 50% waste reporting requirement.

3. Provide for the recycling of all other construction/demolition debris including carpeting, drywall, lumber, reinforcing steel, piping, wiring, brick, plaster, wall board, roofing material, insulation, plumbing fixtures, doors, and windows to the greatest extent possible . Only utilize licensed recycling facilities.
4. Provide a certificate of recycling for universal waste as defined in Wisconsin Administrative Code Chapter NR600.

N. Material Sales

1. Materials shall not be stockpiled for sale purposes on Post.
2. Public advertised sales of materials will not be permitted on Post.
3. Prior arranged sale of materials may be permitted on Post.

1.5 QUALITY CONTROL

- A. The Contractor is responsible for quality control and shall establish and maintain an effective quality control system in compliance with the Contract Clause titled "Inspection of Construction." The Contractor Quality Control (CQC) Plan shall include, as a minimum, the following to cover all construction operations, both onsite and offsite, including work by subcontractors, fabricators, suppliers, and shall be keyed to the proposed construction sequence. The plan shall identify personnel, procedures, control, instructions, tests, records, and forms to be used. The site project superintendent is responsible for the quality of work on the job and is subject to removal by the Contracting Officer for non-compliance with the quality requirements specified in the contract.

1.6 APPLICABLE STANDARDS, GUIDES AND SPECIFICATIONS

- A. References are made in these specifications to published codes, standards, and specifications of manufacturers' societies, associations, and other standards. All referenced documents are included in this specification as if written in their entirety.
- B. Where referenced documents are not specified by date, the latest edition published as of the bid or proposal request date shall apply.

1.7 DELIVERY AND STORAGE

- A. Contractor shall insure that any items which are stored at the site prior to installation are stored in an environment that will not cause rusting, warping, staining, or any physical breakage or damage.
- B. All labor and equipment required for loading, unloading, transporting, and moving materials shall be provided by the Contractor.
- C. Storage buildings will not be provided by the Government.

1.8 TRAILERS OR STORAGE BUILDINGS, INCLUDING OFFICE TRAILERS

- A. Trailers or storage buildings will be permitted, where space is available, subject to the approval of the COR.
- B. The trailers or buildings shall be in good condition, free from visible damage, rust, and deterioration, and meet all applicable safety requirements. Trailers shall be roadworthy and comply with all appropriate State and local vehicle requirements. Failure to maintain storage trailers or buildings to these standards shall result in the removal of non-complying units at the Contractor's expense.
- C. A sign not smaller than 2-feet by 2-feet shall be conspicuously placed on the trailer depicting the company name, business phone number, and emergency phone number.
- D. Trailers shall be anchored to resist high winds and must meet applicable state and local standards for anchoring mobile trailers.
- E. Provide metal or fiberglass skirting completely around office trailers within 30 days after placement of the trailer on the lot and after being approved by the COR.
- F. Grass and weeds shall be cut weekly or as needed to a height not to exceed three inches. Trash shall be picked up and disposed of properly on a daily basis.
- G. The Contractor shall be responsible for the installation and removal of all temporary utility connections at no cost to the Government.

1.9 STORAGE SITE

- A. All stored materials shall be neatly stacked at all times.
- B. Trash shall be picked up and properly disposed of on a daily basis.
- C. Grass and weeds shall be cut on a regular basis to a height not to exceed three inches. In Cantonment, uncut height shall not exceed 6 inches. Outside Cantonment, uncut height shall not exceed 12 inches.
- D. Fire extinguishers shall be provided where flammable liquids are stored.

1.10 SCHEDULING AND COORDINATING WORK

- A. Contractor shall coordinate work in the Government homes with the COR. The COR will provide access to the homes based on an agreed upon schedule.
- B. The Contractor may be required to allow Government personnel or other Contractors to carry out work within the work site. Such work will be scheduled and coordinated through the COR.
- C. The Contractor shall provide a phone number and address where a key, and/or approval, to enter may be obtained for the work sites during the work day for times when the Contractor may not be at the work site.

1.11 WARRANTIES

- A. All materials and workmanship shall be warranted by the Contractor for a period of not less than one year from the date of final acceptance by the Government, except when longer warranties are required from the Contractor as stated in each specification section.
- B. For products and materials that are normally warranted by the manufacturer or supplier for more than one year, the Contractor shall provide the Government with a written warranty, or certification, indicating the manufacturer's or supplier's terms and conditions of the warranty.

PART 2 PRODUCTS

2.1 EXISTING MATERIALS

- A. Materials to be demolished:
 - 1. All materials identified to be demolished and removed from the existing facilities shall be the responsibility of the Contractor to remove completely from Fort McCoy.
- B. Existing materials may only be reused/relocated as specifically allowed per the contract drawings and specifications.

2.2 NEW MATERIAL AND EQUIPMENT

- A. Materials and equipment shall be essentially the standard products of a manufacturer regularly engaged in the manufacture of those products, shall meet the requirements of the specification, and shall essentially duplicate material and equipment that have been in satisfactory use.
- B. Seconds or otherwise substandard materials will not be allowed.

PART 3 EXECUTION

3.1 INSPECTION

- A. The Contractor shall not begin successive phases of work until an inspection has been completed and the work is accepted by the COR. Notify the COR 24 hours prior to completing a phase requiring inspection.
 - 1. Any work that will be covered by successive work must be inspected prior to performing successive work.
 - 2. Work to be covered includes, but is not limited to, flooring removal, work located below finish floors, and painting.
- B. When the contractor considers the work complete, notify the COR via phone call or email to schedule the final inspection.
 - 1. Should the COR consider the work incomplete or defective, a written punch list will be provided to the Contractor from the Contracting Officer.
 - 2. The Contractor will be given 3 calendar days, unless otherwise determined by the Contracting Officer, to remedy the stated deficiencies.
 - 3. The Contractor shall contact the COR to request re-inspection to be scheduled not later than the 3 calendar days, unless otherwise determined by the Contracting Officer. This re-inspection shall also be completed during the contract performance period to be in accordance with the contract.
 - 4. If any further re-inspections are required the Contractor may be charged the additional cost of the inspections.

5. Final acceptance of the work occurs upon the COR acceptance of the work subsequent to successful final inspection by the COR and receipt of all contract requirements.
 6. If final acceptance does not occur prior to the contract completion date, liquidated damages may be applicable in accordance with the liquidated damaged clause.
- C. If the Government requires beneficial occupancy of the facility prior to completion of the work by the Contractor, an inspection shall be conducted by the COR to determine the completed work, and either accept or document any work not complete. The Contractor will then complete the remaining work and correct any deficiencies.

3.2 TRANSITION FROM EXISTING TO NEW WORK

- A. When new work abuts or finishes flush with existing work, make a smooth transition. Patched work shall match existing adjacent work in texture and appearance.
- B. When finished surfaces are cut in such a way that a smooth transition with new work is not possible, terminate existing surface along a straight line at a natural line of division and provide trim appropriate to the finished surface.

3.3 CLEANING

- A. During Construction:
 1. The Contractor shall at all times keep the work area, including storage areas, free from accumulations of waste materials. The Contractor shall ensure all affected areas are "broom clean" at the end of each work day. Before completing the work, the Contractor shall remove from the work and premises, any rubbish, tools, scaffolding, equipment, and materials that are not the property of the government. Upon completing the work, the Contractor shall leave the work area in a fully cleaned, neat, and orderly condition, satisfactory to the Contracting Officer. FAR 52.236-12.
- B. Dust Control
 1. Clean interior spaces prior to the start of finish coatings and continue cleaning on an as-needed basis until coatings are finished.
 2. Schedule operations so that dust and other contaminants resulting from the cleaning process will not fall on wet or newly-coated surfaces.
 3. The amount of dust resulting from demolition shall be controlled to prevent the spread of dust and to avoid creation of a nuisance in the surrounding areas. The use of water will not be permitted when it will create or result in hazardous or objectionable conditions such as ice, flooding, and pollution.
 4. All buildings, materials, and equipment, including ductwork and diffusers, shall be cleaned of all dust and dirt resulting from the performance of the work under this contract.
- C. Final Cleaning
 1. Final cleaning shall be performed and completed prior to punch list inspection.

2. Clean interior and exterior surfaces exposed to view.
 - a. Remove temporary labels, stains, and foreign substances.
 - b. Polish transparent and glossy surfaces.
 - c. Vacuum carpeted and soft surfaces. Mop floors.
 - d. Wash windows and dust walls and trim.
 - e. Clean equipment and fixtures to a sanitary condition.
 - f. Clean or replace filters of mechanical equipment.
3. Clean project site.
 - a. Sweep paved areas.
 - b. Rake clean other surfaces.
4. Remove waste and surplus materials, rubbish, and construction facilities from the project and from the site.

END OF SECTION

SECTION 01007

INDUSTRY STANDARD ABBREVIATIONS AND CODES

PART 1 GENERAL

A. INDUSTRY STANDARD

1. Organizations and/or published documents representing Industry Standards are referred to throughout the Project Specifications by the following abbreviations.
2. Names are believed to be accurate and up-to-date as of the date of the Contract Documents but are subject to change.

B. APPLICABLE CODES

1. The Ft McCoy Army installation has adopted the Wisconsin Administrative Code (WAC) as the primary building code.
 - a. The following web link provides an index on each specific construction disciplines codes presently adopted and enforced by DPW. The code as published on the date the contract is awarded shall be enforced.
<https://docs.legis.wisconsin.gov/code/prefaces/toc>
2. All state and local codes shall also apply.
3. Where ever there is a conflict between code models, the primary code (WAC) shall govern.

C. ABBREVIATIONS

1. Abbreviations used throughout the Specifications and the organization or document represented are:

AA	Aluminum Association
AAMA	Architectural Aluminum Manufacturer's Association
AAN	American Association of Nurserymen
AASHTO	American Association of State Highway and Transportation Officials
ACI	American Concrete Institute
AGA	American Gas Association
AI	Asphalt Institute
AISC	American Institute of Steel Construction
AISI	American Iron and Steel Institute
ANSI	American National Standards Institute
ARI	Air-conditioning Refrigerant Institute
ASHRAE	American Society of Heating, Refrigeration and Air Conditioning Engineers
ASME	American Society of Mechanical Engineers
ASTM	American Society for Testing and Materials

AVATI	Asphalt and Vinyl Asbestos Tile Institute
AWI	Architectural Woodwork Institute
AWS	American Welding Society
AWPA	American Wood Preservers Association
AWPB	American Wood Preservers Bureau
AWPI	American Wood Preservers Institute
AWWA	American Water Works Association
CRSI	Concrete Reinforcing Steel Institute
CS	Commercial Standards of U.S. Department of Standards
EIA	Electronic Industries Alliance
EPA	Environmental Protection Agency
EWA	Engineered Wood Association (formerly APA)
FGJA	Flat Glass Jobbers Association
FM	Factory Mutual
FRP	Fiber Reinforced Plastic
FS	Federal Specifications
GA	Gypsum Association
IEEE	Institute of Electrical and Electronic Engineers
MSS	Manufacturer's Standardization Society
NAAMM	National Association of Architectural Metal Manufacturers
NBS	National Bureau of Standards
NBFU	National Bureau of Fire Underwriters
NCMA	National Concrete Masonry Association
NEC	National Electric Code
NECA	National Electrical Contractors Association
NEMA	National Electrical Manufacturers Association
NFPA	National Fire Protection Association
NFPA	National Forest Products Association
NPC	National Plumbing Code
NRCA	National Roofing Contractors Association
NRMCA	National Ready Mixed Concrete Association
NWMA	National Woodwork Manufacturing Association
NWAHHA	National Warm Air Heating and Air Conditioning Association
OSHA	Occupational Safety and Health Administration
PCA	Portland Cement Association

PPI	Plastic Pipe Institute
PS	Product Standard of NBS
SMACNA	Sheet Metal and Air Conditioning Contractors National Association
SPIB	Southern Pine Inspection Bureau
SSPC	Steel Structures Painting Council
TIA	Telecommunications Industry Association
UL	Underwriters Laboratories
USAS	United States of American Standards (formerly ASA)
WCLIB	West Coast Lumber Inspection Bureau
WDNR	Wisconsin Department of Natural Resources
WWPA	Western Wood Products Association (WPA and WCLA)

PART 2 PRODUCTS - NOT USED

PART 3 EXECUTION - NOT USED

END OF SECTION

CONTRACT CONSIDERATIONS

PART 1 GENERAL

- 1.1 The period of performance is 7 work days per home. If task orders are awarded at the same time, the period of performance shall run concurrent for those task orders. The start date of the task order will be determined by the COR based on the home vacancy schedule and the schedule of work by other contractors.
- 1.2 For each delivery order a Joint Scoping Meeting will be held to negotiate the scope and quantities of the project. The joint scope meeting will be held within 3 days of the KTR being notified of the requirement.

PART 2 PRODUCTS

2.1 JOINT SCOPED LINE ITEMS

- A. Removal of carpet shall be paid by the square foot of carpet removed and shall be full compensation for removal of carpet, and tape or glue; disposal; and clean up. Remove base board and save for reinstallation.
- B. Removal of carpet pad shall be paid by the square foot of pad removed and shall be full compensation for removal of pad, and tape or glue; disposal; and clean up. Remove base board and save for reinstallation.
- C. Removal of tack strip shall be paid by the linear foot of tack strip removed and shall be full compensation for removal, disposal, and clean up.
- D. Removal of resilient flooring shall be paid by the square foot of flooring removed and shall be full compensation for removal, clean up, and disposal. Remove base board and save for reinstallation.
- E. Removal of ceramic tile shall be paid by the square foot of ceramic tile removed and shall be full compensation for removal, clean up, and disposal.
- F. Removal of underlayment shall be paid by the square foot of underlayment removed and shall be full compensation for removal, disposal, and clean up.
- G. Removal and reinstallation of the refrigerator, range, and dishwasher, appliances shall be paid by each kitchen floor replacement and shall be full compensation for removal, storage, and reinstallation of appliances, and full replacement of any item damaged due to the neglect of the Contractor.
- H. Furnish and install cementitious underlayment shall be paid by the square foot of cementitious underlayment installed up to 1/2 inch thick and shall be full compensation for furnishing the material, installation, required primers, removal and disposal of excess material, curing time, and clean up.
- I. Furnish and install plywood underlayment up 3/4" to be paid by the square foot of subfloor installed and shall be full compensation for furnishing the material, installation of the subfloor, required adhesives, removal and disposal of excess material.
 - J. Furnish and install carpet shall be paid by the square foot area of carpet installed and shall be full compensation for furnishing the material, installation, reinstallation of the base board, required adhesives and seam sealers, removal and disposal of excess material, and final cleaning.
- J. Furnish and install carpet pad shall be paid by the square foot area of carpet pad installed and shall be full compensation for furnishing the material, installation, required adhesives and seam sealers, removal and disposal of excess material, and final cleaning.

- L. Furnish and install tack strip shall be paid by the linear foot of tack strip installed and shall be full compensation for furnishing the material, installation, and final cleaning.
- M. Furnish and install ceramic / porcelain tile including base shall be paid by the square foot area of flooring installed and shall be full compensation for furnishing the material, installation, required thin set and grout, reinstallation of the base board, and disposal of excess material, final cleaning, and initial sealing of tile and/or grout.
- N. Furnish and install luxury vinyl tile flooring shall be paid by the square foot area of flooring installed and shall be full compensation for furnishing the material, installation, required components (including transitions), reinstallation of the base board, removal and disposal of excess material, and final cleaning.
- O. Interior Painting shall be paid by the square foot of area of wall and ceiling to be painted and shall be full compensation for 2 coats of paint, preparation of the area to be painted (to include dents no larger than a quarter), material cost, labor, and clean up.
- P. Exterior Painting shall be paid by the square foot of area painted and shall be full compensation for 2 coats of paint, preparation of the area to be painted, material cost, labor, and clean up.
- Q. Interior trim painting shall be paid by the linear foot of material painted and shall be full compensation for preparation, material, labor, and clean up.
- R. Interior stain/polyurethane shall be paid by the linear foot of material stained/coated and shall be full compensation for preparation, material, labor, and clean up.
- S. Repair of drywall crack shall be paid by the linear foot of drywall crack up to 1/4 inch wide and shall be full compensation for furnishing the material, installation, compound, required primers, removal and disposal of excess material, curing time, and clean up.
- T. Furnish and install expansion joint shall be paid by the linear foot of expansion joint installed and shall be full compensation for furnishing the material, installation, compound, required primers, removal and disposal of excess material, curing time, and final cleaning.
- U. Furnish and install silicone caulk shall be paid by the linear foot of caulk installed and shall be full compensation for furnishing the material, installation, removal and disposal of excess material, curing time, and final cleaning.

PART 3 EXECUTION

- 3.1 Line Items must be validated by the COR.
- 3.2 Not all items will be required for every delivery order.

END OF SECTION

SECTION 01300

SUBMITTALS

PART 1 GENERAL

1.1 SUBMITTALS

The following paragraphs indicate the requirements for submittals by the Contractor. All items listed in the Schedule of Material Submittals shall be submitted in accordance with the following paragraphs.

A. At all times the Contractor remains responsible for ensuring that the work is performed in strict accordance with the contract requirements. The fact that a non-conforming submittal may be accepted and inadvertently approved by the Government does not, in any way, relieve the Contractor of this responsibility. Approval by the Contracting Officer shall not relieve the Contractor from responsibility for any errors or omissions in the submittals, nor from the responsibility of complying with the requirements of the contract, unless the variations have been described and approved in strict accordance with the procedures set forth in the Code of Federal Regulations, 48CFR 52.236-21, Specifications and Drawings for Construction clause, paragraph (f).

B. Definitions

1. Submittal - General term that includes any item that is required to be provided by the Contractor to the Government to identify product descriptive literature, drawings, sketches, and schematics that indicate and show a fabrication or installation method or technique; or any other model or sample of actual items or methods to include product data sheets, shop drawings, or samples.
2. Product Data - Descriptive literature or data that describes the physical properties of a product or material item that the Contractor intends to use in doing the work. Such descriptive data should enable the Contracting Officer to verify that the intended item meets the necessary requirements of the specifications.
3. Shop Drawings - A sketch, drawing, or schematic that is prepared by or for the Contractor that illustrates or shows how certain products or material items will be assembled, installed, interconnected, or fabricated for this contract.
4. Sample - An actual piece of material, product, or equipment that the Contractor intends to furnish, use, or install on the project.

1.2 PRODUCT DATA

A. Preparation:

1. Clearly mark each copy to identify pertinent products or models.
2. Show performance characteristics and capacities.
3. Show dimensions and clearances required.
4. Show any other information requested in the specification sections.

B. Modify drawings and diagrams to delete information that is not applicable to the work.

C. Supplement standard information to provide information specifically applicable to the work.

1.3 SHOP DRAWINGS - NA

1.4 SAMPLES

- A. Product samples shall be of sufficient size and quantity, unless a size is specified, to clearly illustrate:
 - 1. Functional characteristics of the product with integrally related parts and attachment devices.
 - 2. Full range of color, texture, and pattern.
- B. Field samples and mock-ups:
 - 1. Fabricate each sample and mock-up complete and finished.

1.5 CONTRACTOR RESPONSIBILITIES

- A. Review shop drawings, product data and samples prior to submission. All submittals shall be made through and approved by the General Contractor. Submittals will not be accepted directly from sub-contractors.
- B. Determine and verify:
 - 1. Field measurement.
 - 2. Field construction criteria.
 - 3. Catalog numbers and similar data.
 - 4. Conformance with specifications.
- C. Coordinate each submittal with the requirements of the work and of the Contract Documents.

1.6 SUBMISSION REQUIREMENTS

- A. Make submittals promptly in accordance with the approved schedule in such sequence as to cause no delay in the work or in the work of any contractor.
- B. Contractor shall develop a complete list of preconstruction and construction submittals. Contractor shall identify required submittals of the RFP and use the list to prepare the submittal register. The list may not be all inclusive and additional submittals may be required by other parts of the contract. The contractor must prepare a Submittal Register listing all submittals, in the format of the attached Schedule of Material Submittals. A preliminary Register is attached to the end of this section; the Designer of Record shall verify its completeness, and make any corrections, or additions required. The Submittal Register shall be submitted to the Contracting Officer for acceptance in accordance with the schedule below. Once accepted by the Government, the contractor shall input the Submittal Register into an Excel spreadsheet suitable for use by the contractor and Government. The approved/accepted Submittal Register will serve as a scheduling document for submittals and will be used to control submittal actions throughout the contract period. The submit dates and need dates used in the submittal register shall be coordinated with dates in the Contractor prepared progress schedule. Updates to the submittal Register codes and actual dates shall be submitted monthly or until all submittals have been satisfactorily completed. When the progress schedule is revised, the submittal register shall also be revised and both submitted for approval.

The contractor shall make submittals as required by the specifications. The contracting Officer may request submittals in addition to those specified when deemed necessary to adequately describe the work covered in the respective sections. Units of weights and measures used on all submittals shall be the same as those used on the contract drawings, or required per the contract documents. Each submittal shall be complete and

in sufficient detail to allow ready determination of compliance with contract requirements. Prior to submittal, all items shall be checked and approved by the Contractor's Quality Control (CQC) system Manager and each CQC System Manager indicating action taken. Proposed deviations from the contract requirements shall be clearly identified.

C. Number of submittals required:

1. Product Data: Contractor shall receive approval by the COR on each submittal item prior to ordering or installing each item. Submit one copy of product data.
2. Samples: Submit the number stated in each specification section. Samples submitted will not be returned to the Contractor for incorporation into the project. Samples retained by the Government will be used for comparison of materials installed on site.
3. All submittals shall be sent directly to DPW either electronically (preferred method) or in paper copy, but not both. Please do not duplicate as this will cause for delays in the turnaround time of your submittals. There will be a box at the main entrance desk in Building 2171 for submittals. Electronic submissions shall be sent to: usarmy.mccoy.imcom-central.mbx.dpw-inspections@mail.mil.

D. Submittals shall contain:

1. Transmittal cover sheet, ENG FORM 4025-R, Mar 2012.
2. The date of submission and the dates of any previous submissions.
3. The project title and number.
4. Contract identification.
5. The names of:
 - a. Contractor.
 - b. Supplier.
 - c. Manufacturer.
6. Identification of the product with the specification section number.
7. Field dimensions, clearly identified as such.
8. Applicable standards such as ASTM or Federal Specification numbers.
9. Identification of deviations from Contract Documents.
10. Identification of revisions on re-submittals.

E. Resubmission Requirements:

1. Make any corrections or changes in the submittals required by the COR and resubmit until approved.

SECTION 01300

SCHEDULE OF MATERIAL SUBMITTALS

- A. To be submitted 20 calendar days or sooner after the Notice to Proceed is issued.
- B. To be submitted 20 days or sooner after installation or completion of the work.
- C. To be submitted at the Pre-Construction Conference.
- D. To be submitted before Final Inspection.

FAMILY HOUSING FLOORING AND PAINTING FY18 – FY23 Fort McCoy, WI				FILE# 1561		
ITEM NO.	SECTION, PARA NO, LETTER	DESCRIPTION OF MATERIAL	DATE REQ	DATE APPR	DATE DISAPPR	SUBMIT NO.
1.	01000, 1.04 I	Waste Reports	D			
2.	01000, 1.12 A, B	Material Warranties	D			
3.	01400, 1.03 A	Accident Prevention Plan	A			
4.	03540, 1.03 A	Product Data: Cementitious Underlayment	A			
5.	09300, 1.03 A	Product Data: Ceramic Tile	A			
6.	09300, 1.03 B	Samples: Ceramic Tile	A			
7.	09627, 1.03 A	Product Data: LVT	A			
8.	09627, 1.03 B	Samples: LVT	A			
9.	09627, 1.03 C	Installation Instructions: LVT	A			
10.	09627, 1.03 D	Warranty: LVT	A			
11.	09627, 1.04 A	Maintenance Data: LVT	A			
15.	09681, 1.03 A	Product Data: Carpeting	A			
16.	09681, 1.03 B	Samples: Carpeting	A			
17.	09681, 1.03 C	O&M Data: Carpeting	A			
18.	09900, 1.03 A	Product Data: Paint and Stain	A			
19.	09900, 1.03 B	Color Charts: Paint and Stain	A			
20.						
21.						
22.						
23.						
24.						

END OF SECTION

SECTION 01400
SPECIAL SAFETY REQUIREMENTS

PART 1 GENERAL

1.1 SUMMARY

- A. This section provides guidelines for the preparation of accident prevention plans and the implementation of the accident prevention clause which is this specification, Federal Acquisition Regulation (FAR) clause 52.236-13, and the U.S. Army Corps of Engineers Safety and Health Requirements Manual, EM 385-1-1. The required Safety Plan shall be developed using Appendix A of the latest edition of the EM-385-1-1.
- B. The U.S. Army Corps of Engineers Safety and Health Requirements Manual, EM 385-1-1 is available from Government bookstores operated by the Government Printing Office. Government bookstores are located in most major cities including Milwaukee, Chicago, Kansas City, Denver, and Pueblo, Colorado. An electronic copy of the EM 385-1-1 is available at:
<http://www.usace.army.mil/SafetyandOccupationalHealth/SafetyandHealthRequirementsManual.aspx>

1.2 PRECONSTRUCTION CONFERENCE

- A. A preconstruction conference will be scheduled prior to beginning of site work at which time the Contracting Officer will review and discuss requirements relative to planning and administration of the overall safety program.

1.3 SUBMITTALS

- A. The following shall be submitted in accordance with Section 01300 Submittal Procedures:
 - 1. Accident Prevention Plan

1.4 ACCIDENT PREVENTION PLAN

- A. The Contractor shall submit, prior to the start of on-site construction activity, a proposed Accident Prevention Plan which shall be the accident prevention policy to be followed by all of the Contractor's and subcontractor's personnel and supervisory staff during performance of the work.
- B. Requirements:
 - 1. The proposed plan shall be developed after a careful analysis of the work involved and shall be tailored specifically to the conditions of this project. The Contractor's accident prevention plan shall contain, as a minimum, the following general information or procedures for the activity indicated. The Contractor shall submit his plan for review and acceptance prior to commencing work.
 - 2. The Contractor shall designate an onsite employee as the individual responsible for ensuring the accident prevention plan is implemented and enforced.
 - 3. Explain procedures to assure that subcontractor(s) fully comply with the accident prevention plan.

4. Indoctrination of New Employees: The plan shall include provisions for advising workers of the purpose of the accident prevention plan, specific hazards on the job and precautions to be taken, emergency procedures, information concerning tool box safety meetings, required personal protective equipment, cleanup rules and location of company safety rules (posting or handout).
 5. Hold weekly "Tool Box" safety meetings. Timely safety subjects shall be determined by a responsible individual. Employees will be informed of the time, location, subject, and who will conduct the meeting. Identify procedures for including subcontractors.
- C. Fire Prevention and Protection:
1. Identify sources of fire protection. Insure adequate fire extinguishers, water barrels, or other fire-fighting equipment is located on site.
 2. Explain prevention activities to include storage areas and special hazards such as welding and use of flammable liquids, and other special hazards.
- D. Housekeeping:
1. Daily cleanup of all debris and waste materials is required. Adequate disposal containers should be placed strategically around the site. Debris shall be removed on a regular basis.
 2. Explain procedures that include use of barrels, dumpsters, trash chutes, etc.
- E. Mechanical Equipment Inspection:
1. All mechanical equipment (trucks, cranes, forklifts, backhoes, graders, etc.) shall be inspected prior to use and at fixed intervals throughout the life of the contract.
 2. Explain how inspections will be accomplished (frequency, by whom, and records to be kept).
- F. First Aid and Medical Facilities:
1. First aid facilities shall be made available on the job site. Arrangements for emergency medical attention shall be made prior to start of work.
 2. All emergency numbers (doctor, hospital, ambulance, fire department) shall be posted at the project job trailer or at another accessible location on the project site.
- G. Sanitation:
1. Include provisions for toilet facilities, drinking water, and washing facilities. A sufficient number of toilet facilities as specified in EM 385-1-1 shall be provided unless permission is granted to use existing facilities (portable chemical are authorized).
 2. Insure safe drinking water and individual cups are available.
 3. For the projects where corrosive or toxic materials are used, separate washing facilities are required.
- H. Safety Promotions:

1. The Contractor shall promote accident prevention. Identify method (posters, awards, etc.).
- I. Accident Reporting:
1. All accidents (employee injuries, vehicle, building, or equipment damage, etc.) regardless of their severity, shall be reported to the onsite Government representative or to the Contracting Officer, who in turn will advise the Contractor of forms to be submitted and timeframes.
- J. Job Hazard Analysis
1. When job situations change and it is necessary to alter safety requirements, a Job Hazard Analysis will be accomplished, documented, and added as an addendum to the Accident Prevention Plan.
 2. Each Job Hazard Analysis shall include, but not be limited to, a description of the work, probable hazards related to that work and positive precautionary measures to be taken to reduce or eliminate each hazard. An example of changing situations may be new subcontractors performing work such as earth moving, trenching, concrete work, roofing, electrical, masonry, etc. The onsite Government representative will determine the format and amount of detail required of the written plan.

PART 2 PRODUCTS – NOT USED

PART 3 EXECUTION

3.1 SUMMARY

- A. All work performed under this contract is subject to the safety requirements found in the latest edition of the EM 385-1-1, and OSHA 1926/1910 CFR.
- B. At all times during performance of this contract and until the work is completed and accepted, the Contractor shall directly superintend the work or assign and have on the work a competent superintendent who is satisfactory to the Contracting Officer and has authority to act for the Contractor. FAR clause 52.236-6 as incorporated by reference in the basic contract.

END OF SECTION

CEMENTITIOUS UNDERLAYMENT

PART 1 GENERAL

1.1 SCOPE

- A. Resurfacing of interior wood substrates.
- B. Resurfacing of interior concrete substrates.

1.2 REFERENCES

- A. AASHTO M 148 – Standard Specification for Liquid Membrane-Forming Compounds for Curing Concrete (same as ASTM C 309).
- B. ASTM C 1107 – Standard Specification for Packaged Dry, Hydraulic-Cement Grout (No shrink).

1.3 SUBMITTALS

- A. Product Data.

1.4 DELIVERY, STORAGE, AND HANDLING

- A. Store products in manufacturer's unopened packaging until ready for installation.
- B. Store and dispose of solvent-based materials, and materials used with solvent-based materials, in accordance with requirements of local authorities having jurisdiction.

1.5 QUALITY ASSURANCE

- A. Manufacturer Qualifications: Company specializing in manufacturing products specified in this section with minimum 5 years experience.
- B. Installer Qualifications: Company specializing in performing work of this section with minimum 5 years experience.

1.6 PROJECT CONDITIONS

- A. Maintain environmental conditions (temperature, humidity, and ventilation) within limits recommended by manufacturer for optimum results. Do not install products under environmental conditions outside manufacturer's absolute limits.

PART 2 PRODUCTS

2.1 MANUFACTURERS

- A. Mapei Corporation.
- B. Ardex.
- C. Government approved equal.

2.2 INTERIOR PRODUCTS

- A. Cementitious Underlayment: Pre-blended cementitious, for thicknesses from feather edge.
 - 1. Acceptable Product “SELF-LEVELING”: High-Hydrating cement-based, quick-setting, self-leveling, self-drying; for over cured concrete, any wood underlayment that is recommended or guaranteed by either the wood manufacturer or the floor-covering manufacturer (such as exterior-grade plywood, Group 1, CC type), ceramic tile, old cutback adhesive and old vinyl and vinyl composition flooring, feather edge to 1 1/2".

2. Acceptable Product "PATCHING / SKIM COATING/SLOPING": Ultra-Fast setting, self-curing, patching, polymer-modified, cement-based; for over cured concrete, any wood underlayment that is recommended or guaranteed by either the wood manufacturer or the floor-covering manufacturer (such as exterior-grade plywood, Group 1, CC type), ceramic tile, old cutback adhesive and old vinyl and vinyl composition flooring, feather edge to 1/2".
3. Primer: As recommended by topping manufacturer.

PART 3 EXECUTION

3.1 EXAMINATION

- A. Do not begin installation until substrates have been properly prepared per manufacturer's recommendations.

3.2 PREPARATION

- A. Prepare surfaces using the methods recommended by the manufacturer for achieving the best result for the substrate under the project conditions.

3.3 INSTALLATION

- A. Install in accordance with manufacturer's instructions and floor covering manufacturer's requirements.
- B. Wood subfloors shall be skim coated with an approved cementitious material prior to installation of flooring material.

3.4 PROTECTION

- A. Protect installed products until completion of project.
- B. Touch-up, repair, or replace damaged products prior to Final Inspection.
- C. Protect work of other trades from damage.

3.5 CLEANING

- A. Clean all excess material from surrounding areas (i.e. walls, door frames, etc.)
- B. Remove all packaging material from job site.

END OF SECTION

SECTION 09260
GYPSUM BOARD SYSTEMS

PART 1 GENERAL

1.1 SCOPE

- A. Gypsum board.
- B. Taped and sanded joint treatment.
- C. Light splatter texture finish.

1.2 REFERENCES

- A. ASTM C1396 – Standard Specification for Gypsum Board.
- B. ASTM C630 – Water Resistant Gypsum Backing Board.
- C. ASTM C840-99 – Application and Finishing of Gypsum Board.
- D. ASTM C1002-04 – Steel Drill Screws for the Application of Gypsum Board.
- E. GA-214 – Recommended Levels of Gypsum Board Finish.
- F. GA-216 – Application and Finishing of Gypsum Board.
- G. GA-600-03 – Fire Resistance Design Manual.

1.3 QUALITY ASSURANCE

- A. Perform Work in accordance with GA-214, GA-216 and GA-600.

PART 2 PRODUCTS

2.1 GYPSUM BOARD MATERIALS: ASTM C1396; Type X.

- A. Standard Gypsum Board: 5/8 inch thick, maximum available length in place; ends square cut, tapered edges.
- B. Mold Resistant Gypsum Board: 5/8 inch thick, maximum available length in place; ends square cut, tapered edges.

2.2 ACCESSORIES

- A. Corner Beads: Metal.
- B. Edge Trim: GA 216; Type L or J bead.
- C. Joint Materials: GA 216; reinforcing tape, joint compound.
- D. Fasteners: ASTM C1002, Type W and GA-216.

PART 3 EXECUTION

3.1 EXAMINATION

- A. Verify that site conditions are ready to receive work.

3.2 GYPSUM BOARD INSTALLATION

- A. Install gypsum board in accordance with GA-216 and manufacturer's instructions.
- B. Erect single layer fire rated gypsum board, with edges and ends occurring over firm bearing.

- C. Place corner beads at external corners. Use longest practical length. Place edge trim where gypsum board abuts dissimilar materials.

3.3 CONTROL JOINTS

- A. Provide one-piece joint assembly of non-corrosive metal or extruded vinyl with continuous non-perforated expansion strip for insertion into joint and perforated flanges for attachment to face of wallboard.
- B. Gypsum panel surfaces, other than fire rated assemblies, shall be isolated with control joints or other means for every partition or furring run which exceeds 20 feet.

3.4 JOINT TREATMENT

- A. Finish in accordance with GA-214 Level 4.

3.5 TEXTURE FINISH

- A. Spray finish texture coating in accordance with manufacturer's instructions.
- B. Smooth, non-aggregated, light orange peel spray texture.

3.6 ERECTION TOLERANCES

- A. Maximum Variation of Finished Gypsum Board Surface from Flat Surface: 1/8 inch in 10 feet.

END OF SECTION

SECTION 09300
CERAMIC TILE

PART 1 GENERAL

1.1 SCOPE

- A. Section includes ceramic tile for floors and walls using thin-set application method; cementitious backer board as tile substrate, thresholds at door openings, and ceramic accessories.

1.2 REFERENCES

- A. American National Standards Institute:
 - 1. ANSI A108.1 - Installation of Ceramic Tile, A collection.
 - 2. ANSI A108.10 - Specifications for Installation of Grout in Tile work.
 - 3. ANSI A108.1A - Specifications for Installation of Ceramic Tile in the Wet-Set Method with Portland Cement Mortar.
 - 4. ANSI A108.1B - Specifications for Installation of Ceramic Tile on a Cured Portland Cement Mortar Setting Bed with Dry-Set or Latex Portland Cement Mortar.
 - 5. ANSI A108.1C - Specifications for Contractors Option: Installation of Ceramic Tile in the Wet-Set Method with Portland Cement Mortar -or- Installation of Ceramic Tile on a Cured Portland Cement Mortar Setting Bed with Dry-Set or Latex Portland Cement Mortar.
 - 6. ANSI A108.4 - Specifications for Ceramic Tile Installed with Organic Adhesives or Water-Cleanable Tile Setting Epoxy Adhesive.
 - 7. ANSI A108.5 - Specifications for Ceramic Tile Installed with Dry-Set Portland Cement Mortar or Latex-Portland Cement Mortar.
 - 8. ANSI A108.7 - Specifications for Electrically Conductive Ceramic Tile Installed with Conductive Dry-Set Portland Cement Mortar.
 - 9. ANSI A108.8 - Specifications for Ceramic Tile Installed with Chemical-Resistant Furan Mortar and Grout.
 - 10. ANSI A118.1 - Standard Specification for Dry-Set Portland Cement Mortar.
 - 11. ANSI A118.4 - Latex-Portland Cement Mortar.
 - 12. ANSI A118.5 - Chemical-Resistant Furan Mortar and Grout.
 - 13. ANSI A118.6 - Ceramic Tile Grouts.
 - 14. ANSI A118.9 - Test Methods and Specifications for Cementitious Backer Units.
 - 15. ANSI A136.1 - Organic Adhesives for Installation of Ceramic Tile.
 - 16. ANSI A137.1 - Ceramic Tile.
- B. ASTM International:

1. ASTM C847 - Standard Specification for Metal Lath.

C. Tile Council of America:

1. TCA - Handbook for Ceramic Tile Installation.

1.3 SUBMITTALS

A. Product Data: Submit data for ceramic tile, describing physical, and performance characteristics; sizes, patterns, colors available, and method of installation.

B. Samples: Submit 2 each full size samples of ceramic tile.

1.4 QUALITY ASSURANCE

A. Perform Work in accordance with TCA Handbook and ANSI A108 Series/A118 Series.

B. Manufacturer: Company specializing in manufacturing products specified in this section with minimum three years of experience.

C. Installer: Installer must use manufacturer recommended installation procedures and materials.

1.5 DELIVERY, STORAGE, AND HANDLING

A. Protect adhesives and grouts from freezing or overheating.

1.6 ENVIRONMENTAL REQUIREMENTS

A. Do not install adhesives and grouts in unventilated environment.

B. Maintain ambient and substrate temperature within manufacturer's tolerances during installation and curing of mortar materials.

PART 2 PRODUCTS

2.1 TILE

A. Acceptable Manufacturers:

1. American Olean Tile Co.

2. Ragno USA.

3. Government approved equal.

2.2 COMPONENTS

A. Ceramic Tile (Flooring): ANSI A137.1, conforming to the following:

1. Moisture Absorption: 0.5 to 3.0 percent.

2. Size: To match existing or 12 inch by 12 inch.

3. Shape: Square.

4. Edge: Square.

5. Surface Finish: Matte glazed.

6. Color: Earth tones to be selected by the COR.

B. Ceramic base: ANSI A137.1, conforming to the following:

1. Moisture Absorption: 0.5 to 3.0 percent.

2. Size: To match existing or 4 inch by 12 inch.
 3. Shape: Square.
 4. Edge: Square.
 5. Surface Finish: Matte glazed.
 6. Color: Earth tones to be selected by the COR.
- C. Ceramic Tile (Walls): ANSI A137.1, conforming to the following:
1. Moisture Absorption: 0.5 to 3.0 percent.
 2. Size: To match existing or 4 inch square.
 3. Shape: Square.
 4. Edge: Square.
 5. Surface Finish: Glazed.
 6. Color: Earth tones to be selected by the COR.
- D. Ceramic Tile (Accessories): ANSI A137.1, conforming to the following:
1. Moisture Absorption: 0.5 to 3.0 percent.
 2. Size: Manufacturer's standard for accessory pieces.
 3. Surface Finish: Glazed.
 4. Color: Earth tones to be selected by the COR.

2.3 ACCESSORIES

- A. Adhesive Materials:
1. Tile Setting Adhesive: Elastomeric and waterproof.
- B. Grout Materials:
1. Standard Grout: Latex-Portland cement type as specified in ANSI A118.6.
 - a. Color: As selected by the COR.
- C. Cleavage Membrane: No. 15 asphalt saturated felt.
- D. Cementitious Backer Board: ANSI A118.9; High density, cementitious, glass fiber reinforced, 1/2 inch thick; 2 inch wide coated glass fiber tape for joints and corners.
- E. Grout Sealer:
1. Manufacturer's standard product for sealing grout joints that does not change color or appearance of grout.

PART 3 EXECUTION

3.1 EXAMINATION

- A. Verify surfaces are ready to receive work.

3.2 PREPARATION

- A. Protect surrounding work from damage.
- B. Vacuum clean surfaces.
- C. Seal substrate surface cracks with manufacturer approved filler.
- D. Install cementitious backer board per manufacturer's recommendations.

3.3 INSTALLATION

- A. Install tile and grout in accordance with applicable requirements of ANSI A108.1 through A108.10 and TCA Handbook recommendations.
- B. Do not interrupt tile pattern through openings.
- C. Cut and fit tile to penetrations through tile, leaving sealant joint space. Form corners, align floor, base and wall joints.
- D. Place tile with joints uniform in width, subject to variance in tolerance allowed in tile size. Make joints watertight, without voids, cracks, excess mortar, or excess grout.
 - 1. Ceramic Tile: 1/8 inch joint width.
- E. Install ceramic accessories rigidly in prepared openings.
- F. Sound tile after setting. Replace hollow sounding units.
- G. Keep existing expansion/control joints free of adhesive or grout.
- H. Apply sealant to joints.
- I. Allow tile to set for a minimum of 24 hours prior to grouting.
- J. Grout tile joints. Use standard grout.
- K. Grout Sealer: Apply grout sealer to cementitious grout joints according to grout sealer manufacturer's written instructions. As soon as grout sealer has penetrated grout joints, remove excess sealer and sealer on tile faces by wiping with soft cloth.
- L. Installation Method:
 - 1. Floors: Thin-Set.
 - 2. Walls: Mastic.

3.4 CLEANING

- A. Clean tile and grout surfaces per manufacturer's recommendations.

3.5 PROTECTION OF INSTALLED CONSTRUCTION

- A. Do not permit traffic over finished floor surface for 2 days after installation.

END OF SECTION

SECTION 09655
RESILIENT FLOORING - LUXURY VINYL TILE

PART 1 GENERAL

1.1 SUMMARY

- A. Vinyl Plank
- B. Wood Base and Shoe Moulding
- C. Stair Skirting
- D. Rubber Stair Treads and Accessories.
- E. Transition Strip/Moulding
- F. Subfloor preparation.
- G. Initial/First Cleaning after installation.

1.2 SUBMITTALS:

- A. Product Data:
 - 1. Vinyl Plank
 - 2. Nosing, Tread, and Riser
 - 3. Wood Base and Shoe Moulding
 - 4. Stair Skirting
 - 5. Rubber stair treads and accessories.
 - 6. Transition Strip/Moulding
 - 7. MSDS (Material Safety Data Sheets) for adhesives, heat weld rod, cold weld and cleaning agents.
- B. System Documentation
 - 1. Installation Instructions
 - 2. Maintenance Recommendations.
- C. Warranty
 - 1. Provide manufacturer's standard one-year warranty against defects in manufacturing and workmanship of resilient flooring products. Provide manufacturer's standard limited wear warranty/conductivity warranty as specified under each product as applicable.
- D. Samples:
 - 1. Submit two verification samples of each type of product specified in color selected for use.
 - a. Vinyl Plank
 - b. Transition Strips
 - c. J-Moulding

- d. Rubber Stringers
- e. One Piece Rubber Nosing, Stair Tread and Riser

1.3 QUALITY CONTROL

- 1. Installers Qualifications: Installer shall utilize manufacturer approved installation products, techniques, and standards. Proof of training will be provided as a submittal under "Qualifications" section above for product manufacturers that require specific installation training for their product.
- 2. Products and adhesive shall be Freeze/Thaw stable through a minimum of 5 cycles.

1.4 MANUFACTURER

- A. LVT
 - 1. Shaw
 - 2. Government approved equal.
- B. Mouldings
 - 1. All products shall be from the same manufacturer.

1.5 EXTRA MATERIALS

- A. Furnish extra materials, from the same product run, that match products installed and that are packaged with protective covering for storage and identified with labels describing contents.
 - 1. LVT Full-size units equal to 5 percent of amount installed for each type indicated, but not less than 44.98 sq. ft.
 - 2. Extra material to be turned to over Government and delivered to B 2108, POC is Brad Knoll.

PART 2 PRODUCTS

2.1 LUXURY VINYL TILE:

- A. Acceptable Manufacturers:
 - 1. Shaw Industries.
 - 2. Government approved equal.
- B. Physical Characteristics:
 - 1. Luxury Vinyl Wood Planks – 22 Mil Wear Layer
 - a. Thickness: 0.20 inches or 5.0 mm
 - b. Size: ~~42" x 7"~~ 48" x 7"
 - c. Locking System: 4 sides.
 - d. Locking Strength: ≥ 340 lbs/lf
 - e. Wear layer: 0.05mm/ 20Mil
 - f. Hardness: ASTM D 2240: ≥ 97
 - g. Abrasion Resistance: ASTM D 4060: 60,000cycles
 - h. Coefficient of Friction: ASTM C 1028 0.77 Dry, 0.69 Wet
 - i. Resistance to Heat: ASTM F 1514: Pass
 - j. Resistance to Light: ASTM F1515: Pass

- k. Static Load Limit: ASTM F 970: 1000 psi
- l. Critical Radiant Flux ASTM E 648/NFPA 253: Class 1
- m. Surface Burning Characteristics: ASTM E84: Flame Spread 60
Smoke Dev 850
- n. Warranty: Commercial – Minimum ten years to include freeze
thaw cycles.

2.2 One-Piece Nosing, Tread, and Riser:

- 1. All products shall be from the same manufacturer.
 - a. Wear Surface: Round Pastilles, Class A according to ASTM E 84, raised round pastilles, 0.16 inches overall thickness, 0.02 inches raised pattern thickness. Rubber content approximately 30%.
 - b. Limited Wear Warranty: 10 years.
 - c. Standard: ASTM F 2169, standard specification for resilient stair treads, type TS
 - d. Abrasion Resistance: Taber abrasion test, ASTM D 3389, H-18 wheel, 500 gram load, 1000 cycles, gram weight loss not greater than .60.
 - e. Hardness: ASTM D 2240, Shore A, not less than 85.
 - f. Slip Resistance: Static coefficient of friction (James Test), ASTM D 2047, equal to or greater than 0.5.
 - g. Asbestos-Free: Products shall contain no asbestos.
 - h. Flammability: ASTM E 648; NFPA 253; NBSIR 75 950 result to be not less than 0.45 watts per square centimeter, Class 1.
 - i. Smoke Density: ASTM E 662, NFPA 258, NBS smoke density, less than 450.
 - j. Burn Resistance: Cigarette and solder burn resistance.
 - k. Halogen-Free: Products shall contain no halogens.
 - l. PVC-Free: Products shall contain no poly-vinyl-chloride.
 - m. Color: Submit manufacture color chart.

2.3 STAIR SKIRTING:

- A. Maintain width sufficient to provide 2 inches above stair nose, measured perpendicular to stair slope:
 - 1. Material: rubber
 - 2. Thickness: 1/8 inch
 - 3. Pattern: smooth
 - 4. Color to match cove base.

2.4 MOULDING:

- A. Provide tapered Mouldings of Anodized Aluminum: J-Mouldings and One Piece Expansion Divider
- B. Color to be selected by COR.

PART 3 EXECUTION

3.1 EXAMINATION

- A. Verify that spaces to receive LVT flooring are suitable for installation. Do not proceed with work until unsatisfactory conditions are corrected. Comply with manufacturer's recommendations including the following:
 - 1. Substrates shall be dry and clean.
 - 2. Substrates shall be free of depressions, raised areas, or other defects which would telegraph through installed flooring.
 - 3. Temperature of LVT flooring and substrate shall be within specified tolerances.
 - 4. Moisture condition and adhesive bond tests shall be performed as specified.
 - 5. Alkalinity of substrate shall be verified to be within the manufacturer's tolerances for flooring material and adhesive application.
- B. For applications on cementitious underlayment, verify curing, hardening, or breaking compounds have not been used. If there are any, do not proceed until compounds have been removed as specified.
- C. Perform moisture condition test in each major area, minimum 1 per 1,000 square feet, prior to installation. Moisture condition shall not exceed 3 pounds per 1,000 square feet per 24 hour day, in accordance with ASTM F 1869 or ASTM F 2170, minimum 1 per 1,000 square feet prior to installation. Relative humidity shall not exceed 75%. Do not proceed with work until results of moisture condition tests are acceptable.
- D. Deliver materials in labeled packages. Store and handle in strict compliance with manufacturer's recommendations. Protect from damage due to weather, excessive temperatures, and construction operations.
- E. Deliver materials sufficiently in advance of installation to condition materials to room temperature prior to installation.

3.2 PREPARATION

- A. Maintain a temperature of 68 degrees Fahrenheit (20 degrees Celsius) plus or minus 5 degrees Fahrenheit (3 degrees Celsius) in spaces to receive LVT flooring. Specified temperature shall be maintained at least 48 hours before, during, and 48 hours after installation.
- B. Comply with ASTM F 710 and manufacturer's recommendations for surface preparation. Remove substances incompatible with LVT flooring adhesive by method acceptable to manufacturer.
 - 1. Wood sub floors shall be skim coated with an approved cementitious underlayment prior to installation of flooring material.

- C. Fill voids, cracks, and depressions with trowel-applied leveling compounds acceptable to manufacturer. Remove projections and repair other defects to tolerances acceptable to manufacturer.
- D. Vacuum sub floors immediately prior to installation to remove loose particles.

3.3 INSTALLATION

- A. Install LVT flooring in accordance with manufacturers printed installation instructions. Comply with the following:
 - 1. Layout LVT flooring to provide equal size at perimeter. Adjust layout as necessary to eliminate LVT flooring which is cut to less than 2" in width.
 - 2. Lay LVT flooring with seams and expansion joints perpendicular to the long axis of the room.
 - 3. Install transition strips at each door, to isolate each room.
 - 4. Install J-Moulding at each hollow metal door frame.
 - 5. Install LVT flooring without cracks or voids at seams. Lay seams together without stress. Remove excess adhesive immediately.
 - 6. Scribe LVT flooring neatly at perimeter and obstructions.
 - 7. Extend LVT flooring into reveals, closets, and similar openings.
 - 8. Install reducer strips at exposed edges.
 - 9. Do not mix manufacturing batches of a color within the same area.
 - 10. Do not install defective or damaged LVT flooring.
- B. Install wood base and shoe moulding in accordance with AWI Installation of Woodwork, section 1700. Install in longest practical lengths. Tightly adhere to substrate.
- C. Install resilient stair treads and accessories in accordance with manufacturers printed installation instructions. Install reducer strips at exposed edges. Tightly adhere to substrate only where recommended by manufacturer. Fill voids due to seams in substrate materials with manufacturer's recommended filler material.

3.4 CLEANING AND PROTECTION

- A. Perform initial maintenance according to the manufacturer's installation system instructions. Remove and replace work which cannot be satisfactorily repaired.
- B. Perform initial cleaning in accordance with manufacturer's instructions.
- C. Do not use acetone or chlorinated solvents.
- D. Never use wax or varnish coating.
- E. Protect installed flooring as recommended by the flooring manufacturer against damage from rolling loads, other trades, or the placement of fixtures and furnishings.

END OF SECTION

SECTION 09681

STRETCH-IN CARPETING (RESIDENTIAL)

PART 1 GENERAL

1.1 SUMMARY

- A. Section includes carpet stretched-in with cushion underlay and accessories.

1.2 REFERENCES

- A. Carpet and Rug Institute:
 - 1. CRI 104 - Standard for Installation of Commercial Carpet.
- B. Consumer Products Safety Commission:
 - 1. CPSC 16 CFR 1630 - Standard for the Surface Flammability of Carpets and Rugs.
- C. National Fire Protection Association:
 - 1. NFPA 253 - Standard Method of Test for Critical Radiant Flux for Floor Covering Systems Using a Radiant Heat Energy Source.

1.3 SUBMITTALS

- A. Product Data: Submit data on carpets and pad, describing physical, and performance characteristics; sizes, patterns, colors available, and method of installation.
 - 1. Carpet
 - 2. Pad
- B. Samples:
 - 1. Submit one 6" x 6" samples illustrating color and pattern for each carpet and cushion material specified.
 - a. Carpet
 - b. Pad
 - 2. Submit one 6" long samples of edge strip material for each color specified.
- C. Operation and Maintenance Data: Submit maintenance procedures, recommended maintenance materials, and suggested schedule for cleaning.

1.4 QUALITY ASSURANCE

- A. Surface Burning Characteristics:
 - 1. Floor Finishes: Comply with one of the following:
 - a. Class I, minimum 0.45 watts/sq. cm when tested in accordance with NFPA 253.
 - b. CPSC 16 CFR 1630.

1.5 ENVIRONMENTAL REQUIREMENTS

- A. Maintain minimum 70 degrees F ambient temperature 1 day prior to, during, and 24 hours after installation.

PART 2 PRODUCTS

2.1 CARPET

- A. Acceptable Manufacturers:
 - 1. Shaw Industries.
 - 2. Government approved equal.
- B. Carpet: See Schedule at end of section.
- C. Cushion: Rebond Pad.
 - 1. Nominal Thickness: 3/8 inch.
 - 2. Density: 8 lb/cu ft.

2.2 ACCESSORIES

- A. Underlayment: Type recommended by flooring material manufacturer.
- B. Moldings and Edge Strips: Embossed aluminum, color as selected.
- C. Seam Adhesive: Recommended by manufacturer.
- D. Contact Adhesive: Recommended by carpet manufacturer.

PART 3 EXECUTION

3.1 EXAMINATION

- A. Verify floor surfaces are smooth and flat within tolerances specified by manufacturer.
- B. Verify concrete floors are ready for carpet installation by testing for moisture emission rate and alkalinity.
 - 1. Moisture emission rate: Not greater than 5 lb per 1000 sq ft per 24 hours when tested using calcium chloride moisture test kit for 72 hours.
 - 2. Alkalinity: pH range of 5-9.

3.2 PREPARATION

- A. Remove sub-floor ridges and bumps. Fill minor or local low spots, cracks, joints, holes, and other defects with cementitious underlayment.
- B. Apply, trowel, and float filler to achieve smooth, flat, hard surface. Prohibit traffic until filler is cured.

C. Vacuum clean substrate.

3.3 INSTALLATION

- A. Furnish and install carpet shall be full compensation to prepare floor for carpet, provide material, and install carpet per manufacturers recommendations, and clean up after. Payment shall be by the square foot area of new carpet installed.
- B. Install carpet in accordance with CRI 104.
- C. Verify carpet match before cutting to ensure minimal variation between dye lots.
- D. Lay out carpet and locate seams in accordance with CRI 104 section 7.2 shop drawings:
1. Locate seams in area of least traffic, out of areas of pivoting traffic, and parallel to main traffic.
 2. Do not locate seams perpendicular through door openings.
 3. Align run of pile in same direction as anticipated traffic and in same direction on adjacent pieces.
 4. Locate change of color or pattern between rooms under door centerline.
 5. Provide monolithic color, pattern, and texture match within each contiguous area.
- E. Install carpet tight and flat on subfloor, well fastened at edges, with uniform appearance.
- F. Double cut carpet seams, with accurate pattern match. Make cuts straight, true, and unfrayed.
- G. Stretched Tackstrip Installation: CRI 104 Section 11.
1. Install tackstrips with pins facing wall around entire perimeter, except across door openings. Use combination tackstrip/edge strip where carpet terminates at other floor coverings.
 2. Space tackstrips slightly less than carpet thickness away from vertical surfaces, but not more than 3/8 inch.
 3. Install cushion in maximum size pieces using spot adhesive to adhere to sub-floor.
 4. Lay out cushion so seams will be perpendicular to or offset at least 6 inches from carpet seams.
 5. Butt cushion edges together and tape seams.
 6. Trim cushion tight to edge of tackstrip and around projections and contours.
 7. Following seaming, hook carpet onto tackstrip at one edge, power stretch, and hook firmly at other edges. Follow manufacturer's recommendations for method and amount of stretch.
 8. Furnish and install tackstrip shall be full compensation to prepare floor for installation, provide material, and install per manufacturers recommendations, and clean up after. Payment shall be by the lineal foot of new tackstrip installed.
- H. Trim carpet neatly at walls and around interruptions.
- I. Complete installation of edge strips, concealing exposed edges.

- J. Installation On Stairs - Stretched Tackstrip Method: CRI 104 Section 12.
 - 1. Install tackstrips at back of treads, with pins facing riser, and at bottom of riser, with pins facing tread.
 - 2. Install cushion on stair treads and lap over nosing.
 - 3. Install carpet on stairs with run of pile in opposite direction of anticipated traffic to avoid peaking of backing at nosings.
 - 4. Stretch carpet over stair treads, full width in one piece. Fold carpet under 1-1/2 inches on each side.

3.4 REMOVAL WORK

- A. Removal work shall be paid by the square foot and shall be full compensation for removal of carpet, and / or pad, prep work, and removal of all debris associated with this work.

3.5 CLEANING

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

3.6 PROTECTION OF INSTALLED CONSTRUCTION

- A. Do not permit traffic over unprotected floor surface.
- B. Cover carpeting in traffic areas with protective non-staining building paper. Do not use plastic sheeting.

3.7 SCHEDULE

- A. Carpet Residence Inn I Type: 60192, conforming to the following criteria:
 - 1. Color: Classic Buff 108
 - 2. Roll Width: 12'.
 - 3. Fiber/Brand: Evertouch bcf nylon
 - 4. Static Control Fiber: Static Resistant.
 - 5. Max. Electrostatic Charge: 3 kV at 20 percent R.H.
 - 6. Gage: 1/8 inch.
 - 7. Stitches: 10 per inch.
 - 8. Density Factor: 5.57 kilotex.
 - 9. Primary Backing Material: synthetic.
 - 10. Secondary Backing Material: classicbac.
 - 11. Face Weight: 34.1 oz/sq yd.
 - 12. Total Weight: 48.1 oz/sq yd.

END OF SECTION

SECTION 09900

PAINTING

PART 1 GENERAL

1.1 SCOPE

- A. Surface preparation and field application of paints and coatings.

1.2 REFERENCES

- A. ASTM D16 - Standard Terminology Relating to Paint, Varnish, Lacquer, and Related Products.
- B. ASTM D2016 - Test Method for Moisture Content of Wood.

1.3 SUBMITTALS

- A. Provide product data and manufacturer's installation instructions on paint, stain, and polyurethane.
 - 1. Interior Paint
 - 2. Exterior Paint
 - 3. Interior Stain
 - 4. Interior Polyurethane
 - 5. Exterior Stain
 - 6. Exterior Polyurethane
- B. Samples: Submit Manufacturer's color charts.
 - 1. Interior Gypsum Walls: Sherwin Williams, SW7555 Patience, Egg Shell
 - 2. Interior Ceilings: Sherwin Williams, SW7554 Steamed Milk, Egg Shell
 - 3. Interior Doors and Trim: Sherwin Williams, SW7554 Steamed Milk, Semi-Gloss
 - 4. Exterior Doors: Sherwin Williams, SW7554 Steamed Milk, Semi-Gloss

1.4 REGULATORY REQUIREMENTS

- A. Conform to applicable code for flame and smoke rating requirements for products and finishes.

1.5 ENVIRONMENTAL REQUIREMENTS

- A. Provide continuous ventilation and heating of facilities to maintain surface and ambient temperatures above 45 degrees F for 24 hours before, during, and 48 hours after application of finishes, unless required otherwise by manufacturer's instructions.
- B. Do not apply exterior coatings during rain or snow, or when relative humidity is outside the humidity ranges required by the paint product manufacturer.
- C. Minimum Application Temperatures for Latex Paints:
 - 1. 45 degrees F for interiors.
 - 2. 50 degrees F for exterior.
 - 3. Other as required by the manufacturer's instructions.

- D. Provide lighting level of 80 ft candles (860 x measured mid-height at substrate surface.)

PART 2 PRODUCTS

2.1 MANUFACTURERS

- A. Sherwin-Williams Co.
- B. Lindsay Finishes, Inc.
- C. Pittsburgh Paints
- D. Thomson's Waterseal.
- E. Government approved equal.

2.2 MATERIALS

- A. Coatings: Ready mixed except field catalyzed coatings. Prepare pigments to a soft paste consistency capable of being readily and uniformly dispersed to a homogeneous coating; good flow and brushing properties; capable of drying or curing free of streaks or sags.
- B. Accessory Materials: Linseed oil, shellac, turpentine, paint thinners, and other materials not specifically indicated but required to achieve the finishes specified; commercial quality.
- C. Paints to have good flowing and brushing properties and be capable of drying or curing free of streaks or sags.
- D. All coatings shall be the products of one manufacturer from the list of acceptable manufacturers.

2.3 FINISHES

- A. Refer to schedule at end of section for surface finish.

PART 3 EXECUTION

3.1 EXAMINATION

- A. Delivery, Storage, And Protection
 1. Deliver products to site in sealed and labeled containers; inspect to verify acceptability.
 2. Container labeling to include manufacturer's name, type of paint, brand name, lot number, brand code, coverage, surface preparation, drying time, cleanup requirements, color designation, and instructions for mixing and reducing.
 3. Store paint materials at minimum ambient temperature of 45 degrees F and a maximum of 90 degrees F, in ventilated area, and as required by manufacturer's instructions.
 4. Take precautionary measures to prevent fire hazards and spontaneous combustion.
- B. Verify that surfaces are ready to receive work as instructed by the product manufacturer.
- C. Examine surfaces scheduled to be finished prior to commencement of work. Report any condition that may potentially affect proper application.
- D. Test shop applied primer for compatibility with subsequent cover materials.

- E. Measure moisture content of surfaces using an electronic moisture meter. Do not apply finishes unless moisture content of surfaces are below the following maximums:
 - 1. Plaster and Gypsum Wallboard: 12 percent.
 - 2. Interior Wood: 15 percent, measured in accordance with ASTM D4442.
 - 3. Concrete Floors: 8 percent.

3.2 PREPARATION

- A. Remove electrical plates, hardware, light fixture trim, escutcheons, and fittings prior to preparing surfaces or finishing.
- B. Correct defects and clean surfaces which affect the work of this section.
- C. Shellac and seal all surfaces which may bleed through surface finishes.
- D. Gypsum Board Surfaces: Fill minor defects with filler compound. Spot prime defects after repair.
- E. Interior Wood Items Scheduled to Receive Painted Finish: Wipe off dust and grit prior to sealing. Seal knots, pitch streaks, and sappy sections with sealer. Fill nail holes and cracks after sealer has dried. Sand lightly between coats.
- F. Metal Doors Scheduled for Painting: Seal top and bottom edges with primer.

3.3 PROTECTION

- A. Protect elements surrounding the work of this section from damage or disfiguration.
- B. Repair damage to other surfaces caused by work of this section.
- C. Furnish drop cloths, shields, and other protective methods to prevent spray or droppings from disfiguring other surfaces.
- D. Remove temporary protective wrappings provided by others.
- E. Provide "WET PAINT" signs as required to protect newly-painted finishes.
- F. Remove empty paint containers from site.

3.4 APPLICATION

- A. Apply products in accordance with manufacturer's instructions.
- B. Do not apply finishes to surfaces that are not dry.
- C. Apply each coat to uniform finish.
- D. Apply each coat of paint slightly darker than preceding coat, unless otherwise approved.
- E. Seal back surfaces of interior and exterior woodwork with Polyurethane.

3.5 MECHANICAL AND ELECTRICAL EQUIPMENT

- A. Remove grilles, covers, and panels on mechanical and electrical systems from location and paint separately unless item is supplied with factory finish. Reinstall all removed items.
- B. Finish paint primed equipment to color selected.
- C. Prime and paint insulated and bare pipes, conduit, boxes, insulated and bare ducts, hangers, brackets, collars, and supports except where items are shop finished.
- D. Replace identification markings on mechanical or electrical equipment when painted over or splattered.

- E. Remove cover plates of all switches and receptacles. Protect remaining items with coverings before painting operations. After painting operation is complete, reinstall all removed items. Remove protective coverings.
- F. Paint exposed conduit and electrical equipment occurring in finished areas. Color and texture to match adjacent surfaces.

3.6 CLEANING

- A. Promptly remove paint where spilled, splashed, or spattered.
- B. Maintain premises free of unnecessary accumulation of tools, equipment, surplus materials, and debris.
- C. Collect cotton waste cloths and material which may constitute a fire hazard, place in closed metal containers, and remove daily from site.

PART 4 SCHEDULES

4.1 PAINTING SCHEDULE EXTERIOR: SEE LIST OF ACCEPTABLE MANUFACTURERS

- A. Metal Items (Factory Primed) Metal Doors and Frames.
 - 1. Touch up shop prime coat or prime unprimed steel
 - 2. 2 coats of exterior latex paint

4.2 PAINTING SCHEDULE INTERIOR: SEE LIST OF ACCEPTABLE MANUFACTURERS

- A. Metal Items: Factory primed metal doors and frames.
 - 1. Prime: touch-up shop prime coat or prime unprimed steel.
 - 2. Paint: 2 coats.
- B. Metal Items: Doors, frames and miscellaneous items not supplied with factory final finish.
 - 1. Prime: touch-up shop coat or prime unprimed metal.
 - 2. Paint: 2 coats.
- C. Gypsum Board: Walls and ceiling
 - 1. Texture: light splatter or orange peel
 - 2. Prime: 1 coat drywall primer
 - 3. Paint: 2 coats.
- D. Trim:
 - 1. Stain
 - Follow with two coats of polyurethane.
 - 2. Paint
 - Prime: Bare wood
 - Paint: 2 coats.

END OF SECTION