DATE: March 9, 2022

DEPARTMENT OF GENERAL SERVICES
BUREAU OF CAPITAL PROJECT DESIGN MANAGEMENT
1800 HERR STREETS
HARRISBURG, PENNSYLVANIA

ADDENDUM NO. 2

on

PROJECT NO. DGS C-1101-0053 PHASE 001
PROJECT TITLE - Lincoln University - Vail Hall Renovations
PROFESSIONAL:
Voith & Mactavish Architects
2401 Walnut Street, 6th Floor
Philadelphia, PA, 19103

If you submitted a bid through e-Builder prior to this Addendum being issued, your bid has been discarded and you must re-submit your bid(s) through e-Builder prior to the bid opening date and time. Please see Section 4.C. of the Instruction to Bidder

Refer to attached for Addendum information.
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SUMMARY OF WORK

PART 1 – GENERAL

1.1 STIPULATIONS
   A. The specifications sections "General Conditions of the Construction Contract", "Special Conditions", and "Division 1 - General Requirements" form a part of this Section by this reference thereto, and shall have the same force and effect as if printed herewith in full.

1.2 LOCATION
   A. Vail Hall
      Lincoln University
      Lincoln University, PA 19352

1.3 PROJECT DESCRIPTION
   A. The renovated Vail Memorial Hall at Lincoln University will consist of approximately 18,000 gross square feet of new and renovated spaces distributed over three levels (about 7,000 square feet of intensive renovation). The original portion of the existing building was built in 1898 by the noted architect Addison Hutton and will undergo a complete, historic renovation. A 1953 addition to the 1898 structure will be removed and replaced with a new addition, designed to complement the original portion of the building and the surrounding historic buildings of the North End of the campus. The new construction and the restoration of the historic portions of Vail Hall will accommodate the administrative offices of the Lincoln University President, Provost and offices of Fiscal Affairs.

1.4 CONTRACT DURATION
   A. The Construction Contract duration shall be 560 calendar days commencing on the date of the Initial Job Conference.

1.5 WORK INCLUDED
   A. The Work of this Project consists of, but is not necessarily limited to, the following. Detailed requirements of the Work are described in the pertinent specification Sections and/or shown on the Drawings.
   B. General Construction (.1) Contract:
      2. Provide shoring, structural bracing and any protection necessary to ensure the stability of the existing structure during construction.
      3. Provide necessary excavation, grading and soil preparation for establishment of site grading and site utilities as required by this Contract.
      4. Provide structural steel framing material design and detailing as well as temporary steel frame bracing required for the work assigned to this Contract.
      5. Coordinate location of steel framing and concrete slabs with location of roof equipment and floor & roof penetrations with the (.2) HVAC Contractor.
      6. Provide cold-formed metal framing material design and documentation, cast in place concrete and steel reinforcing, masonry and building veneer materials, aluminum windows and roof screens required for the work assigned to this Contract.
      7. Provide materials and installation of all interior wall partitions, ceiling partitions, door partitions, windows, finishes, millwork, signage and equipment assigned to this Contract.
8. Provide materials and installation of all subbase, reinforcing, base material, setting beds, concrete work, finishing and backfilling associated with all site walls and site paving assigned to this Contract. Coordinate all necessary provisions to allow for connections of site lighting, site drainage structures, and other utilities and take all necessary precautions to prevent damage to, adjacent structures and utilities.

9. Provide cutting, patching, and fire stopping as required for penetrations and demolition work, including but not limited to signage removal, resulting from work under this contract.

10. Provide materials and installation of all site furnishings assigned to this Contract, making all necessary provisions for attachment of furnishings and taking all necessary precautions to prevent damage to new paving and adjacent structures. Unless otherwise noted, patching shall result in patched areas matching adjacent finishes of same material so that patched areas are indistinguishable from adjacent existing finishes to remain.

11. Provide materials and installation of all landscape plantings assigned to this Contract, taking all necessary precautions to prevent damage to plantings, as well as new paving, adjacent structures and utilities. Provide all necessary ongoing maintenance to establish new plant materials, including turf, through Substantial Completion. Coordinate tagging of trees with the Professional.

12. Coordinate connections and services with the (.2) HVAC Contractor, (.3) Plumbing Contractor, and (.4) Electrical Contractor.

13. Provide materials, means and methods for work assigned to this Contract.

C. HVAC Construction (.2) Contract:

1. Provide Heating, Ventilating, and Air Conditioning equipment, controls, and distribution systems as detailed, specified, and scheduled in the contract manual and contract drawings, and as required by the 2015 International Mechanical Code and reference standards; 2015 IBC, NFPA 90 A/B.

2. Provide ductwork, piping, insulation, and identification for work assigned to this contract.

3. Provide housekeeping pads, roof curbs, and equipment and piping supports required for the work of this contract.

4. Coordinate water connection requirements for make-up water service with the (.3) Plumbing Contractor.

5. Provide existing HVAC system demolition as noted in the contract drawings and manual for the work of this contract.

6. Provide cutting, patching, and fire stopping as required for penetrations resulting from work under this contract. Unless otherwise noted, patching shall result in patched areas matching adjacent finishes of same material so that patched areas are indistinguishable from adjacent existing finishes to remain.

7. Coordinate connections and services with the (.1) General Contractor, (.3) Plumbing Contractor, and (.4) Electrical Contractor.

8. Provide testing and balancing for air and water HVAC systems.

9. Participate in commissioning the HVAC systems in the building.

10. Provide materials, means, and methods for work assigned to this contract.

D. Plumbing Construction (.3) Contract:

1. Provide Plumbing equipment and distribution systems as detailed, specified, and scheduled in the contract manual and contract drawings, and as required by the 2015 International Plumbing Code and reference standards; 2015 IBC.


3. Provide a wet type sprinkler system to protect the building.

4. Provide existing Plumbing system demolition as noted in the contract drawings and manual for the work of this contract.

5. Provide plumbing fixtures, piping, and equipment assigned to this contract including connections to water, fire, sanitary, vent, and storm systems.

6. Provide piping and equipment insulation and identification for the work assigned to this contract.

7. Provide cutting, patching, and fire stopping as required for penetrations resulting from work under this contract. Unless otherwise noted, patching shall result in patched areas matching adjacent finishes of same material so that patched areas are indistinguishable from adjacent existing finishes to remain.
8. Coordinate connections and services with the (.1) General Contractor, (.3) Plumbing Contractor, and (.4) Electrical Contractor.
9. Participate in commissioning the plumbing systems in the building.
10. Provide materials, means, and methods for work assigned to this contract.

E. Electrical Construction (.4) Contract:

2. Provide power distribution and equipment at 480 volts, 277 volts, and 208/120 volts and distribution 480 to 208 transformers as indicated for this contract.
3. Provide existing Electrical system demolition as noted in the contract drawings and manual for the work of this contract.
4. Provide Standby Generator, transfer switch, and normal/emergency power distribution as indicated for this contract.
5. Provide branch and feeder circuits to utilization equipment for HVAC, Fire, Plumbing, Lighting, Telecom and other equipment.
6. Provide Integrated Access Control, alarm management panels, controllers, workstations, devices, card readers, door position switches and connections to electronic door hardware devices.
7. Provide IP-based Closed circuit television (CCTV) surveillance system cameras, housings and power supplies.
8. Provide Network Video Recorders (NVR), Network Video Servers, Storage Area Network and software, licenses, workstations.
9. Provide an addressable voice fire alarm system throughout the building as shown on the Contract Documents.
10. Provide a fire alarm panel and voice panel for the building, complete audible/visible notification throughout all public spaces, and smoke detection as shown on the Contract Documents.
11. Provide back-boxes, conduit, conduit stub-ups, sleeves, fire seals, penetrations, hangers, supports, cable trays, j-hooks, and miscellaneous support appurtenances.
12. Provide switches, receptacles, special purpose receptacles, disconnects, and circuit breakers as shown on the contract documents.
13. Provide lighting and digital lighting controls system.
14. Provide housekeeping concrete pads for all electrical equipment as indicated.
15. Provide structured Cabling System-Cat. 6 cables, jacks, patch panels, fiber optic backbone, copper backbone, terminations, 19” racks, cable management, cabinets, ladder racks, runway supports, plywood backboard.
16. Provide floor boxes, poke-thru’s, furniture feeds, outlets, and devices as indicated.
17. Provide Wireless Access Points and installation as indicated on the contract documents.
18. Provide UPS’s and PDU’s in Telecom closets.
19. Provide cutting, patching, and fire stopping as required for penetrations resulting from work under this contract. Unless otherwise noted, patching shall result in patched areas matching adjacent finishes of same material so that patched areas are indistinguishable from adjacent existing finishes to remain.
20. Coordinate connections and services with the (.1) General Contractor, (.2) HVAC Contractor, and (.3) Plumbing Contractor.
21. Participate in commissioning the electrical systems in the building.
22. Provide materials, means and methods for work assigned to this Contract

1.6 SPECIFICATION FORMAT

A. The Specifications for the work of the separate prime Contracts are bound in one volume. Technical provisions which apply to each prime Contract are included in the Divisions listed below:

B. General Construction (.1) Contract: Divisions 01 through 14 and Divisions 31, 32 and applicable Sections of Division 33
C. HVAC Construction (.2) Contract: Divisions 01, 23 and applicable Sections of Divisions 02, 03, 05, 07, 09, 25, 31, 32 and 33.

D. Plumbing Construction (.3) Contract: Divisions 01, 21, 22 and applicable Sections of Divisions 02, 03, 05, 07, 09, 25, 31, 32 and 33.

E. Electrical Construction (.4) Contract: Divisions 01, 25, 26 and applicable Sections of 02, 03, 07, 08, 31, 32, and 33.

Note: The term Professional refers to the Architectural or Engineering firm retained by the Department to design and document the work of the Project, or the Professional’s authorized representative. The term Professional may also refer to the Client Agency if the Project design was delegated to the Client Agency. Throughout the Specifications and Drawings wherever the terms 'A/E', 'Architect' or 'Engineer' are used it shall mean Professional.

1.7 WORK BY OTHERS

A. NA

1.8 QUESTIONS DURING BIDDING PERIOD

A. Direct all questions pertaining to the Project to the Project Professional utilizing the e-Builder Enterprise Software Program (e-Builder) as described in the Instructions To Bidders.

PART 2 – PRODUCTS (Not Used)

PART 3 – EXECUTION (Not Used)

END OF SECTION
PART 1 – GENERAL

1.1 STIPULATIONS

A. The specifications sections "General Conditions of the Construction Contract", "Special Conditions", and "Division 1 - General Requirements" form a part of this Section by this reference thereto, and shall have the same force and effect as if printed herewith in full.

1.2 DEFINITIONS

A. Unit Price: An amount bid by the Contractor for a unit quantity of a work item listed in the Schedule of Unit Prices.

B. Schedule of Unit Prices: The schedule of work items in the Contract for which the Contractor is to provide a price for adjusting the Contract amount for changes in quantity of work required.

1.3 PROCEDURES

A. Unit Prices will be used as the basis for computing "additions to" or "deductions from" the Lump Sum Contract amount for extra work and for reductions in quantities of work called for by the Contract Documents. The unit price applied for “Adds” to the bid quantity will be equal to the unit price applied for “Deducts” to the bid quantity for each item listed. Unit Prices shall remain binding and irrevocable for the entire period of the Contract.

B. Unit Prices shall include all costs by the Contractor, his suppliers and subcontractors for the work, including labor, material, tools, equipment, insurance, taxes, field overhead, general overhead and profit and bond. The work shall include all incidental items required to complete the work.

C. The Department will not be bound by the Unit Prices unless it accepts the same by indication on the Construction Contract. The Department may award the contract without accepting the bidder's Unit Prices. If the Department and the Contractor are unable to agree upon a new Unit Price, the Department may at its discretion, direct the Contractor to perform such work on a force account basis.

D. Work added to the Contract will be of the same general character as that required by the Contract Documents. Contractors are to assume that changes will be made in a timely manner, not requiring the Contractor to incur additional mobilization or other disproportional expenses in connection with the adjustment in contract quantities.

E. Each bidder shall carefully check the drawings and specifications for the Base Bid quantities required to be included under the Contract.

F. Contractors are to comply with requirements of the Instructions to Bidders and instructions for completion of the Bid Form.

1.4 SCHEDULE OF UNIT PRICES

A. The following Schedules of Unit Prices apply to the Contracts indicated on the Schedules. The Contractor is to provide Unit Prices for all items.
### GENERAL CONSTRUCTION (.1) CONTRACT – SCHEDULE OF UNIT PRICES

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<th>DESCRIPTION</th>
<th>UNIT OF MEASUREMENT</th>
<th>QUANTITY IN LUMP SUM BID</th>
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<tr>
<td>1</td>
<td>Mold Abatement - Walls</td>
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<td>Additional Excavation and Unsuitable Soils Replacement</td>
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<td>3</td>
<td>Brick Replacement</td>
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<tr>
<td>4</td>
<td>Standing and Running Trim replacement at Existing Building</td>
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<td>100</td>
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<tr>
<td>5</td>
<td>Removal of Granite at wall Base</td>
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<tr>
<td>6</td>
<td>Underpinning Existing Foundations</td>
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<tr>
<td>7</td>
<td>Replacement of Existing Roof Sheathing</td>
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### HVAC CONSTRUCTION (.2) CONTRACT – SCHEDULE OF UNIT PRICES

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<tr>
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### PLUMBING (.3) CONTRACT – SCHEDULE OF UNIT PRICES

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### ELECTRICAL (.4) CONTRACT – SCHEDULE OF UNIT PRICES

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</table>

### 1.5 CHANGES

A. All changes in the quantity of work for which there is a Unit Price will be authorized using change order procedures provided in the General Conditions. Change Orders shall be written prior to performing the work where possible but may be written after the work is authorized, completed and measured when quantities are not able to be determined in advance.
UNIT PRICES IN LUMP SUM CONTRACTS

A. Measurement of the work quantities where the work is performed prior to issuance of a Change Order shall be net quantities and not include cutting waste, or other adjustments to the unit of measure of the Unit Price. The Department and Contractor shall arrive at a rational procedure for measurement prior to performing the work. The Contractor shall be responsible for measurement and will submit the calculations and worksheets to the Department for approval.

1.7 DESCRIPTIONS OF UNIT PRICES

A. General Construction (.1) Contract:

1. Mold Abatement – Walls: Mold abatement is quantified based on observable conditions on site, including observation above ceilings where possible. Where ceiling or wall removal exposes additional areas of mold, the additional areas should be remediated per Section 02-8200 – Mold Remediation.

2. Additional Excavation and Unsuitable Soils Replacement: The quantity given is based on experience at other projects in nearby sites but cannot otherwise be verified. Required excavation may be less than indicated. Where the soils are excavated to the level required for installation of new bearing elements such as slabs and the remaining soil does not pass compaction tests required under the special inspections 01-4000 for the indicated structural bearing capacity, additional excavation and replacement of soils may be needed.

3. Brick Replacement: Brick replacement quantity is given based on visual observations of the building, and the assumption that the condition will be consistent behind the metal cornice. Following removal of the cornice, an evaluation will be made by the owner and architect to determine any additional brick replacement required. Replace additional brick as required to the standards indicated in 04-0120.63, 64 and 04-0310.

4. Standing and Running Trim Replacement at the Existing Building: Quantity given is based on visual observations and investigation of areas behind applied paneling at the existing building. Trim condition should be evaluated after removing the paneling and a determination made about the quantity of replacement. Trim to be replaced will match the profile and finish of the existing trim, when refinished, exactly.

5. Removal of Granite at Wall Base: The indicated area can be see on the A3.x drawings. This quantity is based on visual observations and test pits, but additional area may be uncovered during demolition and excavation that would require replacement. The replacement granite would be, as the remainder is, matched to the existing stone.

6. Underpinning Existing Foundations: The indicated areas are shown on the structural drawings. Excavation and soil conditions may require additional, or eliminate the need for, some underpinning quantity. Additional underpinning would follow the requirements set out in the structural drawings.

7. Replacement of Existing Roof Sheathing: The indicated area is based on observation of the existing roof from the underside. Following the removal of the slate and metal roof, an evaluation will be made by the owner and architect to determine the final extent of
roof sheathing to be replaced. Sheathing replacement should follow the requirements shown on the drawing and specifications.

PART 2 – PRODUCTS (Not Used)

PART 3 – EXECUTION (Not Used)

END OF SECTION
SECTION 010300
BASE BID DESCRIPTIONS

PART 1 – GENERAL

1.1 STIPULATIONS

A. The specifications sections “General Conditions of the Construction Contract”, “Special Conditions”, and “Division 1 - General Requirements” form a part of this Section by this reference thereto, and shall have the same force and effect as if printed herewith in full.

1.2 SECTION INCLUDES

A. This Section includes identification of each Base Bid and description of the changes to be associated with each Base Bid.

1.3 DESCRIPTION OF SEPARATE BASE BIDS

A. GENERAL CONSTRUCTION CONTRACT (DGS C-1101-0053 – 001.1)

1. Base Bid No. 1:
   a. Shall include all the work indicated on the Contract Drawings and described in the Contract Specifications except that work specifically called out as being part of another Base Bid.
   b. Standing and running trim, paneling, will all be painted

2. Base Bid No. 2: Same as Base Bid No. 1, except:
   a. Replace damaged existing brick identified for replacement under this Base Bid.
   b. Standing and running trim, paneling, will all be clear finished white oak.
   c. Terrazzo floor in corridors and entry lobby.
   d. Full wall ceramic tile at restrooms. (Upgraded tile remains at President’s restroom.)
   e. Flashing upgrades as indicated on Drawings.
   f. All finishes indicated to be solid surface will be upgraded to quartz agglomerate.

3. Base Bid No. 3: Same as Base Bid No. 2, except:
   a. Triple-pane glass at windows.
   b. Upgraded (mineral wool) insulation.
   c. Additional membrane at interior side of exterior walls.
   d. Thermally insulated masonry anchors instead of non-thermal anchors.

4. Base Bid No. 4: Same as Base Bid No. 3, except:
   a. At exterior, new limestone in lieu of new cast stone.

B. HVAC CONSTRUCTION CONTRACT (DGS C-1101-0053 – 001.2)

1. Base Bid No. 1:
   a. Shall include all the work indicated on the Contract Drawings and described in the Contract Specifications except that work specifically called out as being part of another Base Bid.

2. Base Bid No. 2:
   a. Same as Base Bid No. 1.

3. Base Bid No. 3:
   a. Same as Base Bid No. 1.

4. Base Bid No. 4:
   a. Same as Base Bid No. 1.

C. PLUMBING CONSTRUCTION CONTRACT (DGS C-1101-0053 – 001.3)
1. Base Bid No. 1:
   a. Shall include all the work indicated on the Contract Drawings and described in the Contract Specifications except that work specifically called out as being part of another Base Bid.

2. Base Bid No. 2:
   a. Same as Base Bid No. 1.

3. Base Bid No. 3:
   a. Same as Base Bid No. 1.

4. Base Bid No. 4:
   a. Same as Base Bid No. 1.

D. ELECTRICAL CONSTRUCTION CONTRACT (DGS C-1101-0053 – 001.4)

1. Base Bid No. 1:
   a. Shall include all the work indicated on the Contract Drawings and described in the Contract Specifications except that work specifically called out as being part of another Base Bid.

2. Base Bid No. 2:
   a. Same as Base Bid No. 1.

3. Base Bid No. 3:
   a. Same as Base Bid No. 1.

4. Base Bid No. 4:
   a. Same as Base Bid No. 1.

PART 2 – PRODUCTS (Not Used)

PART 3 – EXECUTION (Not Used)

END OF SECTION
SECTION 050170.61 - DECORATIVE METAL REPAIR

PART 1 - GENERAL

1.1 RELATED DOCUMENTS

A. Drawings and general provisions of the Contract, including General and Supplementary Conditions and Division 01 Specification Sections, apply to this Section.

1.2 SUMMARY

A. Section Includes:
   1. Decorative metal repairs as follows:
      a. Repairing metal and replacing damaged and missing components in place.
      b. Removing metal for shop repair and replacement of components; reinstalling repaired metal.
      c. Preparing and painting metal uncovered during the Work.
      d. Fabrication and installation of new-to-match-existing decorative metal elements.
      e. See Drawing A3.1 and other elevations for locations of decorative metal repair work.

B. Related Requirements:
   1. Section 079200 "Joint Sealants" for information about joint sealant products and application.
   2. Section 099000 "Painting and Coating" for paint products and associated application information.

1.3 DEFINITIONS

A. Low-Pressure Spray: 100 to 400 psi ; 4 to 6 gpm .

B. Medium-Pressure Spray: 400 to 800 psi ; 4 to 6 gpm .

1.4 ACTION SUBMITTALS

A. Product Data: For each type of product.
   1. Include recommendations for product application and use.

B. Shop Drawings:
   1. Include plans, elevations, and sections showing locations and extent of repair and replacement work, with enlarged details of replacement parts indicating materials, profiles, methods of attachment, accessory items, and finishes.
C. Samples for Verification: For the following products in manufacturer's standard sizes unless otherwise indicated, finished as required for use in the Work:

1. Each type of new material to be used for replacing existing or missing decorative metal; 6 inches long in least dimension or whole item.
2. Fittings and brackets.
3. Accessories: Each type of anchor, accessory, and miscellaneous support in required finishes.

1.5 INFORMATIONAL SUBMITTALS

1.6 QUALITY ASSURANCE

A. Mockups: Prepare mockups of decorative metal repair processes on existing surfaces to demonstrate aesthetic effects and to set quality standards for materials and execution and for fabrication and installation. Prepare mockups so they are inconspicuous.

1. Replacing Cast-Metal Components: one cast-aluminum fleur-de-lis at dome.
2. Approval of mockups does not constitute approval of deviations from the Contract Documents contained in mockups unless Architect specifically approves such deviations in writing.
3. Subject to compliance with requirements, approved mockups may become part of the completed Work if undisturbed at time of Substantial Completion.

1.7 DELIVERY, STORAGE, AND HANDLING

A. Pack, deliver, and store decorative metal items in suitable packs, heavy-duty cartons, or wooden crates; surround with sufficient packing material to ensure that products are not deformed, cracked, or otherwise damaged.

B. Store decorative metal inside a well-ventilated area, away from uncured concrete and masonry and protected from weather, moisture, soiling, abrasion, extreme temperatures, and humidity.

C. Protect strippable protective covering on decorative metal from exposure to sunlight and high humidity, except to the extent necessary for the period of decorative metal installation.

1.8 FIELD CONDITIONS

A. Weather Limitations: Proceed with decorative metal repairs only when existing and forecasted weather conditions are within the environmental limits set by each manufacturer's written instructions and specified requirements.
PART 2 - PRODUCTS

2.1 METAL MATERIALS

A. General: Provide decorative metal materials made of the alloys, forms, and types that match existing metals and have the ability to receive finishes matching existing finishes unless otherwise indicated. Exposed-to-view surfaces exhibiting imperfections inconsistent with existing materials are unacceptable.

B. Source Limitation for Replacement Cast Materials: Obtain castings for decorative metal repair from single source from single manufacturer with resources to provide materials of consistent quality in appearance and physical properties.

C. Aluminum: Alloy and temper recommended in writing by aluminum producer and finisher for type of use and finish indicated, and with not less than the strength and durability properties of alloy and temper designated below for each aluminum form required:


D. Copper Alloys, Bronze: Copper alloy designated below for each form required:

1. Composition Bronze Castings: ASTM B62, Alloy UNS No. C83600 ("85-5-5-5" is the common trade name; 85 percent copper and 5 percent each of tin, lead, and zinc).

E. Steel: Standard and grade designated below for each form required:

1. Steel Sheet: ASTM A1008/A1008M, cold-rolled commercial steel sheet; matte finish; suitable for exposed applications.

F. Wrought Iron: Mild steel; ASTM A29/A29M, Grade 1010; hand worked or machine forged to the form indicated.

2.2 PREPARATORY CLEANING MATERIALS

A. Water: Potable.

B. Hot Water: Water heated to a temperature of 140 to 160 deg F.

C. Detergent Solution, Job Mixed: Solution prepared by mixing 2 cups of tetrasodium pyrophosphate (TSPP), 1/2 cup of laundry detergent, and 20 quarts of hot water for every 5 gal. of solution required.

D. Abrasive Materials:

1. Abrasives for Ferrous Metal Cleaning: Aluminum oxide paper, emery paper, fine steel wool, steel scrapers, and steel-wire brushes of various sizes.

E. Rust Remover: Manufacturer's standard phosphoric acid-based gel formulation, also called "naval jelly," for removing corrosion from iron and steel.
F. Antirust Coating: Fast-curing, lead- and chromate-free, self-curing, universal modified-alkyd primer according to MPI #23 (surface-tolerant, anticorrosive metal primer) or SSPC-Paint 20 or SSPC-Paint 29.

1. Surface Preparation: Use coating requiring no better than SSPC-SP 2, "Hand Tool Cleaning" surface preparation according to manufacturer's literature or certified statement.
2. VOC Limit: Use coating with a VOC content of 400 g/L or less.

2.3 FASTENERS

A. Fasteners: Fasteners of the same basic metal as fastened metal unless otherwise indicated. Use metals that are noncorrosive and compatible with each metal joined.

1. Match existing fasteners in material and in type of fastener unless otherwise indicated.
2. Use concealed fasteners for interconnecting decorative metal components and for attaching them to other work unless exposed fasteners are unavoidable or the existing fastening method.
3. For exposed fasteners, use Allen-type machine screws of head profile flush with metal surface unless otherwise indicated.
4. Finish heads of exposed fasteners to match finish of metal fastened unless otherwise indicated.

B. Anchors, General: Use bolt heads of same basic metal as fastened metal unless otherwise indicated. Use metals that are noncorrosive and compatible with each metal anchored.

2.4 MISCELLANEOUS MATERIALS

A. Welding Electrodes and Filler Metal: Select according to AWS specifications for metal alloy welded; use metal type and alloy as recommended in writing by producer of metal to be welded or filled and as required for color match, strength, and compatibility in fabricated items.

B. Brazing Rods for Copper-Alloy Components: Type and alloy as recommended in writing by producer of metal to be brazed and as required for color match, strength, and compatibility in fabricated items.

C. Metal-Patching Compound: Two-part, polyester-resin metal-patching compound; knife-grade formulation as recommended in writing by manufacturer for type of metal repair indicated, tooling time required for the detail of work, and site conditions. Compound shall be produced for filling metal that has deteriorated because of corrosion. Filler shall be capable of filling deep holes and spreading to feather edge.

D. Nonshrink, Nonmetallic Grout: Factory-packaged, nonstaining, noncorrosive, nongaseous grout complying with ASTM C1107/C1107M. Provide grout specifically recommended in writing by manufacturer for interior and exterior applications.

E. Anchoring Cement: Factory-packaged, nonshrink, nonstaining, hydraulic-controlled expansion cement formulation for mixing with water at Project site to create pourable anchoring, patching, and grouting compound.
1. Water-Resistant Product: At exterior locations, provide formulation that is resistant to erosion from water exposure without needing protection by a sealer or waterproof coating and that is recommended in writing by manufacturer for exterior use.

F. Sealant Materials:

1. Provide manufacturer's standard, elastomeric single-component, non-sag STPE/U hybrid sealant complying with applicable requirements in Section 079200 "Joint Sealants."
2. Colors: Provide colors of exposed sealants to match colors of metals in which sealant is placed unless otherwise indicated.

G. Liquid Strippable Masking Agent: Manufacturer's standard liquid, film-forming, strippable masking material for protecting glass, metal, glazed masonry, and polished stone surfaces from damaging effects of acidic and alkaline cleaners.

1. Manufacturers: Subject to compliance with requirements, provide products by one of the following:
   a. American Building Restoration Products, Inc.
   b. Price Research, Ltd.
   c. PROSOCO, Inc.

H. Masking Tape: Nonstaining, nonabsorbent material; compatible with chemical solutions being used and substrate surfaces, and that will easily come off entirely, including adhesive.

I. Other Products: Select materials and methods of use based on the following, subject to approval of a mockup:

1. Previous effectiveness in performing the work involved.
2. Little possibility of damaging exposed surfaces.
3. Consistency of each application.
4. Uniformity of the resulting overall appearance.
5. Do not use products or tools that could do the following:
   a. Remove, alter, or in any way harm the present or future condition of existing surfaces, including surrounding surfaces not in the Contract.
   b. Leave an unintended residue on surfaces.

2.5 METAL FABRICATION

A. Manufacturers: Subject to compliance with requirements, provide products by one of the following:

2. Historical Arts & Casting, Inc.; http://www.historicalarts.com

B. Fabricate repairs of decorative metal items and components in sizes and profiles to match existing decorative metal, with accurate curves, lines, and angles. Mill joints to a tight, hairline fit. Form assemblies and joints exposed to weather to resist water penetration and retention.
C. Provide uniform, neat seams with minimum exposure of welds, brazing, solder, and sealant.

D. Provide rebates, lugs, and brackets necessary to assemble components and to attach to existing work. Drill and tap for fasteners. Use concealed fasteners where possible; use exposed fasteners to match existing work.

1. Where repairing support for existing decorative elements, such as fleur-de-lis at dome, or new to match existing, use same type of support detail. Support need not match existing, but shall be of compatible material with adjacent materials and meet other requirements of this section.

E. Comply with AWS for recommended practices in welding and brazing. Provide welds and brazes behind finished surfaces without distorting or discoloring exposed side. Clean exposed welded and brazed joints of flux, and dress exposed and contact surfaces.

1. Use materials and methods that match color of base metal, minimize distortion, and develop maximum strength and corrosion resistance.
2. Remove flux immediately.
3. At exposed connections, match contours of adjoining surfaces, and finish exposed surfaces smooth and blended so no roughness shows after finishing.

F. Castings: Fabricate castings free of warp, cracks, blowholes, or other defects that impair strength or appearance. Grind, wire brush, sandblast, and buff castings to remove seams, gate marks, casting flash, and other casting marks.

1. Castings should primed and ready for field painting.

G. Decorative Copper:

1. Form new-to-match-existing decorative copper roof acroterions to match existing in size and form, using 16 to 20 oz copper, but not less than 20 oz. for elements used to anchor acroterions. Fabricate and install in accordance with Drawings and approved shop drawings. Quantity of new (as opposed to restored) acroterions is indicated on Roof Plan.
   a. Provide drainage weeps to permit discharge of moisture on sides not open to view from ground, and configure interior base in manner to drain any moisture towards and out of weephole openings.
   b. Existing-to-be-restored acroterion may be used for casting purposes in order to create a form for shaping new copper provided that acroterion is not damaged.

2.6 FINISHES, GENERAL

A. Protect mechanical finishes on exposed surfaces from damage by applying a strippable, temporary protective covering before shipping.

B. Appearance of Finished Work: Noticeable variations in same piece are not acceptable. Variations in appearance of adjoining components are acceptable if they are within the range of approved Samples and are assembled or installed to minimize contrast.
2.7 ALUMINUM FINISHES
   A. See Section 099000 for painting requirements for painted cast elements.

2.8 EXISTING COPPER OR COPPER-ALLOY FINISHES
   A. General: Finish designations for copper alloys comply with the system defined in NAAMM's
      "Metal Finishes Manual for Architectural and Metal Products (AMP 500-06)."
   B. See Section 099000 for priming and painting requirements.

2.9 FERROUS METAL FINISHES
   A. Repair Primer: Manufacturer's standard, rust-inhibiting, fast-curing, lead- and chromate-free
      universal primer, compatible with firmly adhered existing paint and applied finish. Comply with
      coating manufacturer's written instructions for cleaning, pretreatment, application, and minimum
      dry film thickness.
   B. Finish Primer: Primer complying with applicable requirements in Section 099000 Painting and
      Coating for finish painting of primed existing metal.
   C. Baked-Enamel or Powder-Coat Finish: Manufacturer's standard baked-on finish consisting of
      prime coat and thermosetting topcoat. Comply with coating manufacturer's written instructions
      for cleaning, pretreatment, application, and minimum dry film thickness.

PART 3 - EXECUTION

3.1 PROTECTION
   A. Comply with each manufacturer's written instructions for protecting building and other surfaces
      against damage from exposure to its products. Prevent chemical solutions from coming into
      contact with people, motor vehicles, landscaping, buildings, and other surfaces that could be
      harmed by such contact.
      1. Cover adjacent surfaces with materials that are proved to resist chemical solutions being
         used unless products being used will not damage adjacent surfaces. Use protective
         materials that are waterproof and UV resistant. Apply masking agents to comply with
         manufacturer's written instructions. Do not apply liquid masking agent to painted or porous
         surfaces. When no longer needed, promptly remove masking to prevent adhesive staining.
      2. Do not apply chemical solutions during winds of enough force to spread them to
         unprotected surfaces.
      3. Neutralize alkaline and acid wastes before disposal.
      4. Dispose of runoff from operations by legal means and in a manner that prevents soil
         erosion, undermining of paving and foundations, damage to landscaping, and water
         penetration into building interiors.
3.2 DECORATIVE METAL REPAIR, GENERAL

A. Repair Appearance Standard: Repaired surfaces are to have a uniform appearance as viewed from 30 feet away by Architect.

B. Execution of the Work: In repairing items, disturb remaining existing work as minimally as possible and as follows:

1. Stabilize decorative metal to reestablish structural integrity and weather resistance while maintaining the existing form of each item.
2. Remove deteriorated coatings and corrosion.
3. Sequence work to minimize time before protective coatings are reapplied.
4. Repair items where stabilization is insufficient to stop progress of deterioration.
5. Repair items in place where possible, unless Design Professional otherwise indicates.
6. Replace or reproduce items where indicated or scheduled.
7. Install temporary protective measures to stabilize decorative metal that is indicated to be repaired later.

C. Mechanical Coating Removal: Use gentle methods, such as scraping and wire brushing, that will not abrade metal substrate.

D. Repair of decorative exterior copper:

1. See Drawings for areas of scope.
2. Where previously soldered copper seams have come apart, clean materials and resolder to restore original condition.
3. Where copper seams were previously mechanical with butyl or similar sealant, clean materials, and recrimp metal with new butyl sealant.

E. Repair Decorative Metal Item: Match existing materials and features.

1. Repair decorative metals by patching, piecing-in, splicing, or otherwise reinforcing metals with new metal matching existing metal, or if metal remains intact but with a deteriorated coating, prepare and repaint.

F. Replace Decorative Metal Component: Where indicated, duplicate and replace items with new metal matching existing metal.

1. Replace heavily deteriorated or missing parts or features of decorative metal with compatible materials, using surviving prototypes to create patterns or molds for duplicate replacements.
2. Note: If existing item to be replaced, such as copper roof acroterion, is missing, replacement item is to match existing examples present elsewhere on building.

3.3 PREPARATORY CLEANING

A. General: Use those methods indicated for each type of decorative metal and its location.

1. Brushes: If using wire brushes, use brushes of same base metal composition as metal being cleaned. Use brushes that are resistant to chemicals being used.
2. Spray Equipment: Use spray equipment that provides controlled application at volume and pressure indicated, measured at nozzle. Adjust pressure and volume to ensure that spray methods do not damage surfaces.
   a. Equip units with pressure gages.
   b. For water-spray application, use fan-shaped spray that disperses water at an angle of 25 to 50 degrees.
   c. For heated water-spray application, use equipment capable of maintaining temperature between 140 and 160 deg F at flow rates indicated.
3. Uniformity: Perform each cleaning method in a manner that results in uniform coverage of all surfaces, including corners, contours, and interstices, and that produces an even effect without streaks or damaging surfaces.
4. Protection: After cleaning is complete, remove protection no longer required. Remove tape and adhesive marks.

B. Water Cleaning: Clean with cold water applied by low-pressure spray. Supplement with natural-fiber or plastic-bristle brush. Use small brushes to remove soil from joints and crevices.

C. Detergent Cleaning:
   1. Wet surface with cold water applied by low-pressure spray.
   2. Scrub surface with detergent solution and natural-fiber or plastic-bristle brush until soil is thoroughly dislodged and can be removed by rinsing. Use small brushes to remove soil from joints and crevices. Dip brush in solution often to ensure that adequate fresh detergent is used and that surface remains wet.
   3. Rinse with cold water applied by low-pressure spray to remove detergent solution and soil.

D. Chemical Rust Removal:
   1. Remove loose rust scale with approved abrasives for ferrous metal cleaning.
   2. Apply rust remover with brushes or as recommended in writing by manufacturer.
   3. Allow rust remover to remain on surface for period recommended in writing by manufacturer or as determined by preconstruction testing. Do not allow extended dwell time.
   4. Wipe off residue with mineral spirits and either steel wool or soft rags, or clean with method recommended in writing by manufacturer to remove residue.
   5. Dry immediately with clean, soft cloths. Follow direction of grain in metal.
   6. Prime immediately to prevent rust. Do not touch cleaned metal surface until primed.

3.4 REMOVAL, REPAIR, AND REINSTALLATION

A. General: Perform removal work as required in Section 024119 "Selective Demolition" for specific requirements relating to selectively demolishing construction, including decorative metal removal for repair or reinstallation elsewhere.

B. Installing Sealant:
   1. After metal reinstallation, keep joints to receive sealant dry and free of debris.
   2. Clean and prepare joint surfaces according to Section 079200 "Joint Sealants." Prime joint surfaces unless sealant manufacturer recommends against priming. Do not allow primer to spill or migrate onto adjoining surfaces.
3. Fill sealant joints with specified joint sealant as recommended in writing by sealant manufacturer and according to Section 079200 "Joint Sealants" and the following:
   a. Install sealant using only proved installation methods that ensure sealant is deposited in a uniform, continuous ribbon, without gaps or air pockets, and with complete wetting of the joint bond surfaces equally on both sides. Fill joint flush with surrounding metal.
   b. Do not allow sealant to overflow or spill onto adjoining surfaces or to migrate into the voids of adjoining surfaces, particularly rough or sculptural textures. Promptly remove excess and spillage of sealant as the work progresses. Clean adjoining surfaces by means necessary to eliminate evidence of spillage, without damage to adjoining surfaces or finishes, as demonstrated in an approved mockup.

4. Cure sealant according to Section 079200 "Joint Sealants."

3.5 PRIMING

A. Repair Primer: Apply immediately after completing a repair.

B. Finish Primer: Apply as soon after cleaning as possible.

3.6 PAINTING STEEL UNCOVERED DURING THE WORK

A. Notify Architect if steel is exposed during metal removal. Where Architect determines that the steel is structural, or for other reasons cannot be totally removed, prepare and paint it as follows:

1. Surface Preparation: Remove paint, rust, and other contaminants according to SSPC-SP 2, "Hand Tool Cleaning," or, with Design Professional's permission, SSPC-SP 3, "Power Tool Cleaning," as applicable to comply with paint manufacturer's recommended preparation.

2. Antirust Coating: Immediately paint exposed steel with two coats of antirust coating, following coating manufacturer's written instructions and without exceeding manufacturer's recommended rate of application (dry film thickness per coat).

B. If on inspection and rust removal, the thickness of a steel member is found to be reduced from rust by more than 10%, notify Design Professional before proceeding.

END OF SECTION 050170.61
SECTION 062000 - FINISH CARPENTRY

PART 1 - GENERAL

1.1 STIPULATIONS

A. The specifications sections "General Conditions of the Construction Contract", "Special Conditions", and "Division 1 - General Requirements" form a part of this Section by this reference thereto, and shall have the same force and effect as if printed herewith in full.

1.2 SECTION INCLUDES

A. Finish carpentry items.
B. Wood casings and moldings.
C. Hardware and attachment accessories.
D. Plastic-laminate shelving and countertops.
E. Fireplace mantels.
F. Melamine shelving.
G. Wood shelving.
H. Wood window sills.
I. Solid Surface materials, including countertops with integral sinks for bathrooms.

1.3 RELATED REQUIREMENTS

A. Section 061000 - Rough Carpentry: Support framing, grounds, and concealed blocking.
B. Section 079200 - Joint Sealants.
C. Section 099000 "IPainting and Coatings" for priming and backpriming and finish products and procedures to be used on interior finish carpentry.
D. Section 123661.19 "Quartz Agglomerate Countertops" for information relating to manufactured quartz materials.

1.4 REFERENCE STANDARDS


D. BHMA A156.9 - American National Standard for Cabinet Hardware; 2010.

E. NEMA LD 3 - High-Pressure Decorative Laminates; 2005.


G. PS 1 - Structural Plywood; 2009.

1.5 ADMINISTRATIVE REQUIREMENTS

A. Coordinate the work with plumbing rough-in, electrical rough-in, and installation of associated and adjacent components.

B. Sequence installation to ensure utility connections are achieved in an orderly and expeditious manner.

1.6 SUBMITTALS

A. Product Data:
   1. Provide data on materials and products specified under this section, including fire retardant treatment materials and application instructions.
   2. Hardware, including instructions for attachment hardware and finish hardware.

B. Shop Drawings: Indicate materials, component profiles, fastening methods, jointing details, accessories, and locations of cutouts and holes for plumbing fixtures, faucets, soap dispensers, and other items installed in architectural woodwork, to a minimum scale of 1-1/2 inch to 1 ft.

C. Samples for Selection / Verification: Manufacturer's color charts consisting of units or sections of units showing the full range of colors, textures, and patterns available for each type of material indicated, including:
   1. Submit (4) samples approximately 6" in length of typical existing salvaged running or standing trim, from different conditions, each having been refinished according to specifications for refinishing of existing trim.
      a. Submit second round of (2) samples, similar to first round, reflecting adjustments in finish from first round of samples.
   2. Submit (4) samples approximately 6" in length of wood to be used in new standing and running trim, each stained in a different color selected by Design Professional and finished with specified finish.
      a. Submit second round of (4) samples, similar to first round, for final selection of stain and finish.
3. Submit (4) samples of finish plywood, 24x24 in size illustrating wood grain and specified finish, including stain.
   a. Samples shall reflect the degree of variation in color, grain and figuration to be expected in the final work.
   b. Submit second round of (4) samples, similar to first round, for final selection of stain and finish, and reflecting an corrections required in grain pattern as reviewed in the first round.
4. Shop-applied transparent finishes.
5. Shop-applied opaque finishes.
7. Thermoset decorative overlays / Melamine.
9. Hardware specified under this section.

1.7 QUALITY ASSURANCE
A. Perform work in accordance with AWI Architectural Woodwork Quality Standards Illustrated, Custom grade.
B. Fabricator Qualifications: Company specializing in fabricating the products specified in this section with minimum five years of documented experience.
   1. Single Source Responsibility: Provide and install this work from single fabricator.
C. Fabricator Qualifications: Company specializing in fabricating the products specified in this section with minimum five years of documented experience.
D. NOTE: All wood surfaces, including but not limited to, prefinished wood panels, cabinets, doors, and trims shall receive a transparent finish and match exactly in color to the rooms in which they are located. General Contractor shall schedule coordination meeting between all subcontractors providing woodwork and the Design Professional for review of finish requirements prior to material ordering.
E. If a quality level exceeding the AWI standard generally specified in this section is indicated for certain parts of the work, that higher standard shall apply notwithstanding that it exceeds the specified general AWI standard.

1.8 DELIVERY, STORAGE, AND HANDLING
A. Protect work from moisture damage.
B. Store components indoors prior to installation.
C. Handle materials to prevent damage to finished surfaces. Provide protective coverings to prevent physical damage or staining following installation for duration of project.
1.9 PROJECT CONDITIONS

A. Sequence installation to ensure utility connections are achieved in an orderly and expeditious manner.

B. Coordinate the work with plumbing rough-in, electrical rough-in, and installation of associated and adjacent components.

PART 2 - PRODUCTS

2.1 GENERAL

A. Lumber: DOC PS 20 and applicable rules of grading agencies indicated. If no grading agency is indicated, comply with applicable rules of any rules-writing agency certified by the American Lumber Standard Committee's (ALSC) Board of Review. Grade lumber by an agency certified by the ALSC's Board of Review to inspect and grade lumber under the rules indicated.

1. Factory mark each piece of lumber with grade stamp of grading agency.

2.2 FINISH CARPENTRY ITEMS

A. Surface Burning Characteristics: Provide materials having fire and smoke properties as required by applicable code.

2.3 WOOD-BASED COMPONENTS

A. Wood fabricated from old growth timber is not permitted.

2.4 INTERIOR TRIM

A. Hardwood Lumber Trim for Transparent Finish (Stain or Clear Finish):

1. Provide hardwood trim for casings, mullions, transoms, chair rail, jambs, opening heads (curved and straight), Plastic laminate tops with wood butt edges, bases, all bookcase components and other features indicated on Drawings. Plywood veneer only permitted where shown on Drawings.
2. Species and Grade: White Oak; AWI Premium Grade.
5. Face Surface: Quarter sawn.
6. Matching: Selected for compatible grain and color.

B. Lumber Trim for Opaque Finish (Painted Finish):

1. Species and Grade: Paint Grade Poplar or other approved hardwood.
C. Lumber for beaded board ceiling (exterior) at entry porch:
   1. Species: Western Red Cedar, NLGA, WCLIB or WW
      a. Note: all faces, edges and ends to be sealed/primed prior to installation.

2.5 LUMBER MATERIALS
A. General: Provide materials that comply with requirements of the AWI quality standard for each type of woodwork and quality grade specified, unless otherwise indicated.
B. Hardwood Lumber for transparent Finish: White oak, quarter sawn, maximum moisture content of 6 percent, not less than AWI Custom grade.
C. Lumber for Opaque Finish: Paint-grade poplar or other approved hardwood.

2.6 SHEET MATERIALS
A. Hardwood Veneer Plywood Paneling: Face to white oak, cut quarter sawn and book matched with plywood core complying with HPVA HP-1.
   1. Thickness: As shown on Drawings.
   2. Panel Size: As shown on Drawings.
   3. Figuration: Do not include panels that are characterized by strong figuration, unless specifically requested in the Drawings.
   4. Grain, color and figuration of panels should exclude contrasts in color, darkness, grain and figuration to the extent that can be achieved by careful selection and arrangement of veneers. Less than 10% of veneer transitions should be distinguishable from a distance of 20 feet.
B. Softwood Plywood: PS 1 Grade A-B; Veneer core; AWI acceptable face species, AWI acceptable cut.
C. Hardwood Plywood: Veneer core, type of glue recommended for application; white oak face species, quarter-sawn.
D. Hardboard: ANSI A135.4
E. MDF: ANSI A208.2, Grade 130

2.7 SHELVING AND CLOTHES RODS
A. Closet Shelving: Made from the following material, 3/4 inch thick:
   1. MDO softwood plywood with solid-wood edge.
B. Adjustable Shelf Brackets: BHMA A156.9, B04112; powder-coat-finished steel
   1. Shelf bracket to be recessed behind GWB, unless otherwise indicated. See drawings for shelf depth.

2.8 PLASTIC LAMINATE MATERIALS

A. Plastic Laminate: NEMA LD 3, HGS; color as selected by Design Professional; textured, low gloss finish;
   1. Color, finish, and surface texture as selected by Design Professional from Manufacturer's full range of options with indicated product line.

B. Low Pressure Laminate: Melamine; white color unless otherwise noted, and gloss surface texture.
   1. Available colors and finishes to include all price groups.

C. Acceptable manufacturers for plastic laminates:
   1. Basis of design: Wilsonart; www.wilsonart.com,
      a. Product Line: Traceless Finish Laminate
      a. Product Line: Infiniti Finish Laminate
   3. Pionite
      a. Product Line: Flawless Finish Laminate

2.9 SOLID SURFACE MATERIALS

A. Color, finish, and surface texture as selected by Design Professional from Manufacturer's full range of options in basis of design price group.

B. Solid surface material: Shall be utilized in all wet locations including kitchenette and lavatory counters and backsplashes, windowsills and other millwork as indicated in the drawings:
   1. Acceptable Manufacturers:
      a. Basis of design manufacturer: Corian
         1) Color: Deep Titanium
      b. Cambria
      c. Wilsonart;

2.10 ADHESIVES

A. Adhesive: Type recommended by laminate manufacturer to suit application, not containing formaldehyde or other volatile organic compounds.
2.11 FASTENINGS

A. Fasteners for Interior Finish Carpentry: Nails, screws, and other anchoring devices of type, size, material, and finish required for application indicated to provide secure attachment, concealed where possible. Provide nonferrous-metal or hot-dip galvanized anchors and inserts on inside face of exterior walls and elsewhere as required for corrosion resistance. Provide toothed-steel or lead expansion sleeves for drilled-in-place anchors.

2.12 ACCESSORIES

A. Glass: Type 1 as specified in Section 088000.

B. Primer: Alkyd primer sealer.

C. Wood Filler: Solvent base, tinted to match surface finish color.

2.13 HARDWARE

A. General: Typical hardware finish on project is US10B Oil Rubbed Bronze.

B. Hardware: Comply with BHMA A156.9.

C. Cabinet Hardware shall be furnished and installed by the installer of cabinetry. Cabinet hardware shall meet accessibility requirements. All cabinets in a room shall be keyed alike unless otherwise noted.

D. Hinges: Frameless Concealed style, US26D finish;

E. Bar Style Pulls: US10B Oil Rubbed Bronze, Amerock #BP40516ORB#853, as manufacturer by Amerock or equivalent by:
   3. Note: Various lengths of pulls may be indicated on Drawings. Provide lengths indicated from manufacturer's range of standard lengths.

F. Latches: Magnetic style; Finish as selected by Design Professional from manufacturers full range;
   1. Magnetic Catch (246.28.100) manufactured by Hafele.

G. Shelf support for wood shelves: Spoon shaped style, Color and Finish: As selected by Design Professional from Manufacturer's full range of options;

H. Cabinet Cam locks: Brushed Chrome finish, keyed different, Provide keying and master keying system.
   1. # 235.10.300 manufactured by Hafele; www.hafele.com.

I. Closet Rods: Provide coordinating end support and center support as required.

J. Drawer Slides: Side mounted, full extension style, US26D finish, 75 lbs/pair minimum rated.
   1. # 420.42.045 manufactured by Hafele; www.hafele.com.

K. Grommets for Cable Passage through Countertops: 2 3/8-inch black, molded-plastic grommets and matching plastic caps with slot for wire passage; Provide 1 grommet per computer or printer as shown on the plans, or not less than one per individual section of countertop or one per 6 feet of countertop, whichever is greater. Black or US10B.
   1. (429.93.322) manufactured by Hafele

L. Adjustable Shelf Standard and bracket: Finish: As selected by Design Professional from Manufacturer's full range of options.

M. Midspan shelf support:
   1. Provide brackets appropriate to shelf depth in sizes as indicated below:
      a. 9"-13" shelf depth: provide 5" x 8" bracket
      b. >13"-19" shelf depth: provide 8" x 12" bracket
      c. >19"-22" shelf depth: provide 12" x 18" bracket
      d. >22"-25" shelf depth: provide 15" x 21" bracket
   2. Finish: Primer for field painting.
   3. Manufacturers:
      a. “Workstation Brackets” by A&M Hardware Inc; www.aandmhardware.com
N.  Flush Mounted/Concealed Brackets: Provide flush mounted counter support bracket

1.  Construction: Fabricated from horizontal aluminum T section and vertical aluminum L section. Vertical leg designed to attach to side of supporting stud and to be concealed by gypsum board or other wall finish.
2.  Locations: Where indicated on Drawings.
4.  For deeper or shallower counters, increase or decrease size proportionally.
5.  Load capacity per bracket: 300 pounds.
6.  Finish: Primed for painting; color as selected by Design Professional.
7.  Accessory: Faceplates: Provide 4 by 4 inches aluminum faceplates with adhesive backing and notched to fit around vertical flange of flush mounted counter support bracket and conceal penetration through gypsum board providing neat, finished appearance.
   a.  Finish of Faceplates to match finish of Flush mounted counter brackets.
8.  Manufacturers:
   a.  Rakks Brackets by Rangine Corporation; www.rakks.com

O.  Metal Tray Wire Managers:

1.  Size: 3 5/8" high by 3” wide by Custom Length.
2.  Color: As selected by Design Professional from Manufacturer's Full Range of Options.
3.  Locations: As indicated on drawings.
   a.  Mockett; Product: WM9/MF; www.mockett.com

P.  Silencers:

1.  Color: As selected by Design Professional from Manufacturer's Full Range of Options.
2.  Locations: As scheduled and indicated on Drawings.
3.  Manufacturers:
   a.  Ives
   b.  Burns
   c.  Rockwood
4.  Requirements:
   a.  Adhesive type
   b.  Color: Clear
   c.  Provide minimum one silencer per 30 inches (762 mm) of height on each single frame, and two for each pair frame, 2 per drawer, or more if required by Drawings or specified Quality Standard.

2.14  WOOD TREATMENT

A.  Fire Retardant Treatment (FR-S Type): Chemically treated and pressure impregnated; capable of providing flame spread index of 25, maximum, and smoke developed index of 450, maximum, when tested in accordance with ASTM E84.
B. Shop pressure treat wood materials requiring fire rating to concealed wood blocking.

C. Provide identification on fire retardant treated material.

D. Deliver fire retardant treated materials cut to required sizes. Minimize field cutting.

2.15 FABRICATION

A. Back out or kerf backs of the following members, except those with ends exposed in finished work:

1. Interior standing and running trim, except shoe and crown molds.
2. Wood-board paneling.

B. Shop assemble work for delivery to site, permitting passage through building openings.

C. Fit exposed sheet material edges with matching veneer edging, unless noted otherwise. Use one piece for full length only.

D. Cap exposed plastic laminate finish edges with material of same finish and pattern.

E. When necessary to cut and fit on site, provide materials with ample allowance for cutting. Provide trim for scribing and site cutting.

F. Apply plastic laminate finish in full uninterrupted sheets consistent with manufactured sizes. Fit corners and joints hairline; secure with concealed fasteners. Slightly bevel arises. Locate counter butt joints minimum 2 feet from sink cut-outs.

G. Wood Moisture Content: Comply with requirements of referenced quality standard for wood moisture content in relation to ambient relative humidity during fabrication and in installation areas.

H. Fabricate woodwork to dimensions, profiles, and details indicated. Ease edges to radius indicated for the following:

1. Corners and edges of solid-wood (lumber) members: 1/16 inch.

I. Complete fabrication, including assembly, finishing, and hardware application, to maximum extent possible, before shipment to Project site. Disassemble components only as necessary for shipment and installation. Where necessary for fitting at site, provide ample allowance for scribing, trimming, and fitting.

1. Trial fit assemblies at fabrication shop that cannot be shipped completely assembled. Install dowels, screws, bolted connectors, and other fastening devices that can be removed after trial fitting. Verify that various parts fit as intended and check measurements of assemblies against field measurements indicated on Shop Drawings before disassembling for shipment.

J. Shop cut openings, to maximum extent possible, to receive hardware, appliances, plumbing fixtures, electrical work, and similar items. Locate openings accurately and use templates or
roughing-in diagrams to produce accurately sized and shaped openings. Sand edges of cutouts to remove splinters and burrs.

1. Seal edges of openings in countertops with a coat of varnish.

2.16 SHOP FINISHING

A. Sand work smooth and set exposed nails and screws.

B. Apply wood filler in exposed nail and screw indentations.

C. On items to receive transparent finishes, use wood filler that matches surrounding surfaces and is of type recommended for the applicable finish.

D. Finish work in accordance with AWI Architectural Woodwork Quality Standards Illustrated, Section 1500, System TR-4 (Transparent).

1. Staining: As selected by Design Professional and to match Design Professional's approved sample.

E. Backpriming: Apply one coat of sealer or primer, compatible with finish coats, to concealed surfaces of woodwork. Apply two coats to back of paneling and to end-grain surfaces. Concealed surfaces of plastic-laminate-clad woodwork do not require backpriming when surfaced with plastic laminate, backing paper, or thermoset decorative overlay.

PART 3 - EXECUTION

3.1 EXAMINATION

A. Verify adequacy of backing and support framing.

B. Verify mechanical, electrical, and building items affecting work of this section are placed and ready to receive this work.

C. See Section 61000 for installation of recessed wood blocking.

3.2 INSTALLATION

A. Prior to delivery of materials on site for installation, the contractor shall provide the proper environmental controls for material storage (i.e. weatherproofing, climate control). These controls shall be maintained for the duration of the project.

B. Set and secure materials and components in place, plumb and level.

C. Carefully scribe work abutting other components, with maximum gaps of 1/32 inch. Do not use additional overlay trim to conceal larger gaps.

D. Install hardware in accordance with manufacturer's written instructions.
E. Quality Standard: Install woodwork to comply with AWI Section 1700 for the same grade specified in Part 2 of this Section for type of woodwork involved.

F. Install woodwork level, plumb, true, and straight. Shim as required with concealed shims. Install level and plumb (including tops) to a tolerance of 1/8 inch in 96 inches.

G. Scribe and cut woodwork to fit adjoining work, and refinish cut surfaces and repair damaged finish at cuts.

H. Anchor woodwork to anchors or blocking built in or directly attached to substrates. Secure with countersunk, concealed fasteners and blind nailing as required for complete installation. Use fine finishing nails or finishing screws for exposed fastening, countersunk and filled flush with woodwork and matching final finish if transparent finish is indicated.

I. Standing and Running Trim: Install with minimum number of joints possible, using full-length pieces (from maximum length of lumber available) to greatest extent possible. Do not use pieces less than 96 inches long, except where shorter single-length pieces are necessary. Scarf running joints and stagger in adjacent and related members.

1. Fill gaps, if any, between top of base and wall with plastic wood filler, sand smooth, and finish same as wood base, if finished.
2. Install wall railings on indicated metal brackets securely fastened to wall framing.
3. Install standing and running trim with no more variation from a straight line than 1/8 inch in 96 inches.
4. Stagger joints in adjacent and related standing and running trim.
5. Miter at returns, miter at outside corners, and cope at inside corners to produce tight-fitting joints with full-surface contact throughout length of joint.
6. Use scarf joints for end-to-end joints.
7. Plane backs of casings to provide uniform thickness across joints where necessary for alignment.
8. At joints between contiguous pieces of standing or running lumber, fill gaps that are allowable within specified tolerances to prove continuous appearance. Fill should approximately match adjacent wood color.
9. Match color and grain pattern of trim for transparent finish (stain or clear finish) across joints.
10. Install trim after gypsum-board joint finishing operations are completed.
11. Install without splitting; drill pilot holes before fastening where necessary to prevent splitting.
12. Fasten to prevent movement or warping.
13. Countersink fastener heads on exposed carpentry work and fill holes with filler that will match adjacent wood after finishing.

J. Paneling: Select and arrange panels on each wall to minimize noticeable variations in grain character and color between adjacent panels.

1. Install with uniform tight joints between panels.
2. Attach panels to supports with manufacturer's recommended panel adhesive and fasteners.
3. Space fasteners and adhesive as recommended by panel manufacturer.
4. Conceal fasteners.
K. Cabinets: Install without distortion so doors and drawers fit openings properly and are accurately aligned. Adjust hardware to center doors and drawers in openings and to provide unencumbered operation. Complete installation of hardware and accessory items as indicated.

1. Install cabinets with no more than 1/8 inch in 96-inch sag, bow, or other variation from a straight line.
2. Maintain veneer sequence matching of cabinets with transparent finish.
3. Fasten wall cabinets through back, near top and bottom, at ends and not more than 16 inches o.c.

L. Countertops: Anchor securely by screwing through corner blocks of base cabinets or other supports into underside of countertop.

1. Align adjacent solid-surfacing-material countertops and form seams to comply with manufacturer's written recommendations using adhesive in color to match countertop. Carefully dress joints smooth, remove surface scratches, and clean entire surface.
2. Install countertops with no more than 1/8 inch in 96-inch sag, bow, or other variation from a straight line.
3. Secure backsplashes to tops with concealed metal brackets at 16 inches.
4. Caulk space between backsplash and wall with sealant specified in Division 7 Section "Joint Sealants."

M. Vertical supports at countertops: Anchor securely to floor and wall utilizing concealed blocking and fasteners as required. Rout edges of vertical supports to receive concealed blocking.

N. Complete the finishing work specified in this Section to extent not completed at shop or before installation of woodwork. Fill nail holes with matching filler where exposed. Apply specified finish coats, including stains and paste fillers if any, to exposed surfaces where only sealer/prime coats were applied in shop.

O. Refer to Division 9 Sections for final finishing of installed architectural woodwork.

P. Clean, lubricate, and adjust hardware.

3.3 PREPARATION FOR SITE FINISHING

A. Set exposed fasteners. Apply wood filler in exposed fastener indentations. Sand work smooth.

B. Before installation, prime paint surfaces of items or assemblies to be in contact with cementitious materials.

3.4 TOLERANCES

A. Maximum Variation from True Position: 1/16 inch.

B. Maximum Offset from True Alignment with Abutting Materials: 1/32 inch.
3.5 ADJUSTING AND CLEANING

A. Repair damaged and defective woodwork, where possible, to eliminate functional and visual defects; where not possible to repair, replace woodwork. Adjust joinery for uniform appearance.

B. Clean, lubricate, and adjust hardware.

C. Clean woodwork on exposed and semi exposed surfaces. Touch up shop-applied finishes to restore damaged or soiled areas.

3.6 SCHEDULE

A. INTERIOR TRIM FOR TRANSPARENT FINISH

1. Quality Standard: Comply with AWI Section 300.
   a. Scope: Includes, but is not limited to:
      1) Wood trim.
      2) Wood edging at shelves.
      3) Window Sills.
      4) As indicated on Drawings.
   b. Thickness:
      1) As indicated on Drawings.
   c. See Additional note under 2.12 Shop Finishing for color of stain and locations of different stains.
   d. Finish per 099000 "Paintings and Coatings".

B. INTERIOR TRIM FOR OPAQUE FINISH

1. Quality Standard: Comply with AWI Section 300.
   a. Scope: Includes, but is not limited to:
      1) Window sills
   b. Thickness:
      1) As detailed on drawings
   c. Miter corners where sill returns to wall.
   d. Finish: painted per Section 09 900.

C. WOOD VENEER FLUSH PANEL WORK FOR TRANSPARENT FINISH

1. Quality Standard: Comply with AWI Section 200.
   a. Scope:
      1) Shelving at coat room
      2) Wood Veneer Paneling.
      3) Shelving.
      4) As indicated in drawings.
   b. Thickness:
      1) As indicated on drawings.
      2) 3/4" typical if not indicated on drawings.
   c. Core: hardwood plywood
   d. Face Veneer: Quarter-sawn white oak. Select boards for similarity of color and grain and arrange boards for optimum match between adjacent boards.
1) Matching: At locations with Flush Veneer Panels matching shall be balance and center match. Refer to drawings for locations.

e. Nosing: Solid wood trim, finish to match veneer of plywood.

D. WOOD CABINETS

1. Quality Standard: Comply with AWI Section 400 requirements for wood cabinets.
2. Scope: Includes, but is not limited to:
   a. cabinets above cubbies
3. AWI Type of Cabinet Construction: Flush overlay, approximately 3/16" between doors.
5. Include clear polyurethane bumpers silencers on all operating doors/drawers.

E. PLASTIC-LAMINATE CABINETS

1. Quality Standard: Comply with AWI Section 400 requirements for laminate cabinets.
2. Scope: Includes, but is not limited to: New cabinetry as indicated on Drawings.
3. AWI Type of Cabinet Construction: Flush overlay, approximately 3/16" between doors.
4. Laminate Cladding for Exposed Surfaces: High-pressure decorative laminate complying with the following requirements:
   a. Horizontal Surfaces Other Than Tops: HGS.
   b. Postformed Surfaces: HGP.
   c. Vertical Surfaces: HGS.
   d. Edges: HGS
5. Materials for Semi exposed Surfaces: Provide surface materials indicated below:
   a. Surfaces Other Than Drawer Bodies: High-pressure decorative laminate, Grade VGS
   b. Drawer Sides and Backs: Solid-hardwood lumber
   c. Drawer Bottoms: Hardwood plywood.
6. Colors, Patterns, and Finishes: As selected by Design Professional from manufacturer's full range of options (including colors, patterns, and finishes from all price groups.)
   a. Provide Design Professional's selections from laminate manufacturer's complete, full range of all colors and finishes in the following categories:
      1) Solid Colors
      2) Wood Grains
      3) Patterns
7. Scope: Include clear polyurethane bumpers silencers on all operating doors/drawers.

F. PLASTIC-LAMINATE COUNTERTOPS & SHELVING

1. Quality Standard: Comply with AWI Section 400 requirements for high-pressure decorative laminate countertops.
2. Scope: Includes, but is not limited to:
   a. Rooms with Counters and vertical supports.
3. High-Pressure Decorative Laminate Grade: HGS
4. Colors, Patterns, and Finishes: Provide materials and products that result in colors and textures of exposed laminate surfaces complying with the following requirements:
   a. Provide Design Professional's selections from laminate manufacturer's complete, full range of all colors and finishes in the following categories:
      1) Solid Colors
      2) Wood Grains
3) Patterns
5. Edge Treatment: Self-edge (finish to match p-lam counter.) and as detailed in drawings.
7. Core Material at Sinks: exterior-grade plywood.
8. Provide 4” high plastic laminate backsplash unless otherwise indicated.
9. Drill for and provide grommets where indicated on drawings.

G. SOLID-SURFACING-MATERIAL COUNTERTOPS

1. Quality Standard: Comply with AWI Section 400 requirements for countertops.
2. Scope: Includes, but is not limited to:
   a. Common bathroom countertops and integral sinks.
   b. Backsplashes.
   c. Vertical Surfaces (Vertical Solid-Surfacing Materials at Countertops).
3. Solid-Surfacing-Material Thickness:
   a. As indicated on drawings;
   b. Horizontal: 3/4 inch if not indicated.
   c. Vertical: 1/2 inch if not indicated.
4. Colors, Patterns, and Finishes: As selected by Design Professional from manufacturer's full range of options (including colors and finishes from all price groups.)
5. Fabricate tops in one piece with shop-applied backslashes and edges, unless otherwise indicated. Comply with solid-surfacing-material manufacturer's written recommendations for adhesives, sealers, fabrication, and finishing.
6. Refer to detail drawings for profiles, dimensions, and layouts.
7. Install integral sink bowls in countertops in shop.
8. Drill holes in countertops for plumbing and accessory fittings in shop.
9. Provide exposed support legs and shelves in solid surface material as indicated and where required.

H. CLOSET SHELVING

1. Quality Standard: Comply with AWI Section 600.
2. Scope: Includes, but is not limited to:
   a. Shelving at closets
   b. Shelving at Storage rooms
3. Materials:
   a. Shelving: Melamine fiber board, white color.
4. Dimensions: Unless otherwise noted
   a. Thickness: 3/4” typical,
   b. Depth: As indicated on the drawings, 18” unless noted otherwise.
5. Support:
   a. Provide continuous end and back cleats.
   b. Shelves between 36” and 48” shall receive a 1-1/2” wood edge.
   c. Shelves greater than 48” shall receive a mid-span support and 1-1/2” wood edge.

END OF SECTION 062000
SECTION 076200 - SHEET METAL FLASHING AND TRIM

PART 1 - GENERAL

1.1 STIPULATIONS

A. The specifications sections "General Conditions of the Construction Contract", "Special Conditions", and "Division 1 - General Requirements" form a part of this Section by this reference thereto, and shall have the same force and effect as if printed herewith in full.

1.2 SUMMARY

A. Section Includes:
   1. Manufactured reglets with counterflashing.
   2. Formed roof-drainage sheet metal fabrications.
   5. Formed wall sheet metal fabrications.
   6. Gutters
   7. Formed decorative metal cornice at building exterior.
   8. Miscellaneous accessories, including insect screen.

B. Related Requirements:
   1. Section 042000 "Unit Masonry" for flashing requirements associated with exterior masonry assemblies.
   2. Section 044313.13 "Anchored Stone masonry Veneer" for flashing requirements associated with masonry veneer.
   3. Section 047200 "Cast Stone Masonry" for flashing requirements associated with cast stone masonry.
   4. Section 061000 "Rough Carpentry" for wood nailers, curbs, and blocking.

1.3 COORDINATION

A. Coordinate sheet metal flashing and trim layout and seams with sizes and locations of penetrations to be flashed, and joints and seams in adjacent materials.

B. Coordinate sheet metal flashing and trim installation with adjoining roofing and wall materials, joints, and seams to provide leakproof, secure, and noncorrosive installation.

1.4 ACTION SUBMITTALS

A. Product Data: For each of the following
   1. Underlayment materials.
2. Elastomeric sealant.
3. Butyl sealant.

B. Shop Drawings: For sheet metal flashing and trim.
1. Include plans, elevations, sections, and attachment details.
2. Detail fabrication and installation layouts, expansion-joint locations, and keyed details. Distinguish between shop- and field-assembled Work.
3. Include identification of material, thickness, weight, and finish for each item and location in Project.
4. Include details for forming, including profiles, shapes, seams, and dimensions.
5. Include details for joining, supporting, and securing, including layout and spacing of fasteners, cleats, clips, and other attachments. Include pattern of seams.
6. Include details of termination points and assemblies.
7. Include details of expansion joints and expansion-joint covers, including showing direction of expansion and contraction from fixed points.
8. Include details of roof-penetration flashing.
9. Include details of edge conditions, including eaves, ridges, valleys, rakes, crickets, flashings, and counterflashings.
10. Include details of special conditions.
11. Include details of connections to adjoining work.
12. Detail formed flashing and trim at scale of not less than 1-1/2 inches per 12 inches.

C. Samples for Verification: For each type of exposed finish.
1. Sheet Metal Flashing: 12 inches long by actual width of unit, including finished seam and in required profile. Include fasteners, cleats, clips, closures, and other attachments.
2. Trim, Metal Closures, Expansion Joints, Joint Intersections, and Miscellaneous Fabrications: 12 inches long and in required profile. Include fasteners and other exposed accessories.

1.5 INFORMATIONAL SUBMITTALS
A. Qualification Data: For fabricator.

1.6 CLOSEOUT SUBMITTALS
A. Maintenance Data: For sheet metal flashing and trim, and its accessories, to include in maintenance manuals.

1.7 QUALITY ASSURANCE
A. Fabricator Qualifications: Employs skilled workers who custom fabricate sheet metal flashing and trim similar to that required for this Project and whose products have a record of successful in-service performance.
1.8 DELIVERY, STORAGE, AND HANDLING

A. Do not store sheet metal flashing and trim materials in contact with other materials that might cause staining, denting, or other surface damage.
   1. Store sheet metal flashing and trim materials away from uncured concrete and masonry.
   2. Protect stored sheet metal flashing and trim from contact with water.

B. Protect strippable protective covering on sheet metal flashing and trim from exposure to sunlight and high humidity, except to extent necessary for period of sheet metal flashing and trim installation.

PART 2 - PRODUCTS

2.1 PERFORMANCE REQUIREMENTS

A. General: Sheet metal flashing and trim assemblies, including cleats, anchors, and fasteners, shall withstand wind loads, structural movement, thermally induced movement, and exposure to weather without failure due to defective manufacture, fabrication, installation, or other defects in construction. Completed sheet metal flashing and trim shall not rattle, leak, or loosen, and shall remain watertight.

B. Sheet Metal Standard for Flashing and Trim: Comply with NRCA's "The NRCA Roofing Manual: Architectural Metal Flashing, Condensation and Air Leakage Control, and Reroofing" and SMACNA's "Architectural Sheet Metal Manual" requirements for dimensions and profiles shown unless more stringent requirements are indicated.

C. Thermal Movements: Allow for thermal movements from ambient and surface temperature changes to prevent buckling, opening of joints, overstressing of components, failure of joint sealants, failure of connections, and other detrimental effects. Base calculations on surface temperatures of materials due to both solar heat gain and nighttime-sky heat loss.
   1. Temperature Change: 120 deg F, ambient; 180 deg F, material surfaces.

2.2 SHEET METALS

A. General: Protect mechanical and other finishes on exposed surfaces from damage by applying strippable, temporary protective film before shipping.

B. Copper Sheet: ASTM B370, cold-rolled copper sheet, H00 or H01.
   1. Source Limitations: Obtain sheet from single source from single manufacturer.

C. Stainless Steel Sheet: ASTM A240/A240M, Type 316, dead soft, fully annealed; with smooth, flat surface.
   1. Finish:
a. Surface Preparation: Remove tool and die marks and stretch lines, or blend into finish.

D. All flashing that will be visible from the ground is to be copper, unless specifically noted otherwise.

2.3 UNDERLAYMENT MATERIALS

A. Self-Adhering, High-Temperature Sheet Underlayment: Minimum 30 mils thick, consisting of a slip-resistant polyethylene- or polypropylene-film top surface laminated to a layer of butyl- or SBS-modified asphalt adhesive, with release-paper backing; specifically designed to withstand high metal temperatures beneath metal roofing. Provide primer in accordance with underlayment manufacturer's written instructions.

1. Manufacturers: Subject to compliance with requirements, provide products by one of the following:
   a. Carlisle WIP Products; a brand of Carlisle Construction Materials.
   b. GCP Applied Technologies Inc.
   c. Henry Company.

2. Source Limitations: Obtain underlayment from single source from single manufacturer.


2.4 MISCELLANEOUS MATERIALS

A. General: Provide materials and types of fasteners, protective coatings, sealants, and other miscellaneous items as required for complete sheet metal flashing and trim installation and as recommended by manufacturer of primary sheet metal or manufactured item unless otherwise indicated.

B. Fasteners: Wood screws, annular threaded nails, self-tapping screws, self-locking rivets and bolts, and other suitable fasteners designed to withstand design loads and recommended by manufacturer of primary sheet metal or manufactured item.

1. General: Blind fasteners or self-drilling screws, gasketed, with hex-washer head.
   a. Exposed Fasteners: Heads matching color of sheet metal using plastic caps or factory-applied coating. Provide metal-backed EPDM or PVC sealing washers under heads of exposed fasteners bearing on weather side of metal.
   b. Blind Fasteners: Stainless steel rivets suitable for metal being fastened.
   c. Spikes and Ferrules: Same material as gutter; with spike with ferrule matching internal gutter width.

2. Fasteners for Copper Zinc-Tin Alloy-Coated Copper or Copper-Clad Stainless Steel Sheet: Copper, hardware bronze or passivated Series 300 stainless steel.

3. Fasteners for Stainless Steel Sheet: Series 300 stainless steel.

C. Solder:

1. For Copper: ASTM B32, Grade Sn50, 50 percent tin and 50 percent lead with maximum lead content of 0.2 percent.
2. For Stainless Steel: ASTM B32, Grade Sn60 Grade Sn96, with acid flux of type recommended by stainless steel sheet manufacturer.

D. Sealant Tape: Pressure-sensitive, 100 percent solids, polyisobutylene compound sealant tape with release-paper backing. Provide permanently elastic, nonsag, nontoxic, nonstaining tape 1/2 inch wide and 1/8 inch thick.

E. Sealant to be exposed in Completed Work: Elastomeric Sealant: ASTM C920, elastomeric oxime-cure silicone polymer sealant; of type, grade, class, and use classifications required to seal joints in sheet metal flashing and trim and remain watertight.

F. Sealant to be concealed in Completed Work: Butyl Sealant: ASTM C1311, single-component, solvent-release butyl rubber sealant; polyisobutylene plasticized; heavy bodied for hooked-type expansion joints with limited movement.

G. Bituminous Coating: Cold-applied asphalt emulsion in accordance with ASTM D1187/D1187M.


I. Reglets: Units of type, material, and profile required, formed to provide secure interlocking of separate reglet and counterflashing pieces, and compatible with flashing indicated with factory-mitered and -welded corners and junctions and with interlocking counterflashing on exterior face, of same metal as reglet.

1. Refer to Drawings for locations of different installations. Mach reglet materials for compatibility with associated flashing materials.

2. Manufacturers: Subject to compliance with requirements, provide products by one of the following:
   a. Cheney Flashing Company.
   b. Heckmann Building Products, Inc.
   c. Hohmann & Barnard, Inc.

3. Material: Stainless steel, 0.019 inch thick Copper, 16 oz./sq. ft.

4. Surface-Mounted Type: Provide with slotted holes for fastening to substrate, with neoprene or other suitable weatherproofing washers, and with channel for sealant at top edge.

5. Stucco Type: Provide with upturned fastening flange and extension leg of length to match thickness of applied finish materials.

6. Concrete Type: Provide temporary closure tape to keep reglet free of concrete materials, special fasteners for attaching reglet to concrete forms, and guides to ensure alignment of reglet section ends.

7. Masonry Type: Provide with offset top flange for embedment in masonry mortar joint.

8. Accessories:
   a. Flexible-Flashing Retainer: Provide resilient plastic or rubber accessory to secure flexible flashing in reglet where clearance does not permit use of standard metal counterflashing or where Drawings show reglet without metal counterflashing.
   b. Counterflashing Wind-Restraint Clips: Provide clips to be installed before counterflashing to prevent wind uplift of counterflashing's lower edge.

J. Insect Screen:

1. Location: Joint between top of dome and underside of glazing of dome's skylight.
2. Products:
   b. Alternate acceptable manufacturers, subject to compliance with requirements:
      1) GAF.
      2) Owens Corning
3. Base Material: Polypropylene
4. Color: Black
5. Attachment Type: Friction/Compression plus adhesive/sealant.

2.5 FABRICATION, GENERAL

A. Custom fabricate sheet metal flashing and trim to comply with details indicated and recommendations in cited sheet metal standard that apply to design, dimensions, geometry, metal thickness, and other characteristics of item required.

1. Fabricate sheet metal flashing and trim in shop to greatest extent possible.
2. Fabricate sheet metal flashing and trim in thickness or weight needed to comply with performance requirements, but not less than that specified for each application and metal.
3. Verify shapes and dimensions of surfaces to be covered and obtain field measurements for accurate fit before shop fabrication.
4. Form sheet metal flashing and trim to fit substrates without excessive oil-canning, buckling, and tool marks; true to line, levels, and slopes; and with exposed edges folded back to form hems.
5. Conceal fasteners and expansion provisions where possible. Do not use exposed fasteners on faces exposed to view.

B. Fabrication Tolerances:

1. Fabricate sheet metal flashing and trim that is capable of installation to a tolerance of 1/4 inch in 20 feet on slope and location lines indicated on Drawings and within 1/8-inch offset of adjoining faces and of alignment of matching profiles.
2. Fabricate sheet metal flashing and trim that is capable of installation to tolerances specified.

C. Expansion Provisions: Form metal for thermal expansion of exposed flashing and trim.

1. Form expansion joints of intermeshing hooked flanges, not less than 1 inch deep, filled with butyl sealant concealed within joints.

D. Sealant Joints: Where movable, nonexpansion-type joints are required, form metal in accordance with cited sheet metal standard to provide for proper installation of elastomeric sealant.

E. Fabricate cleats and attachment devices from same material as accessory being anchored or from compatible, noncorrosive metal.
F. Fabricate cleats and attachment devices of sizes as recommended by cited sheet metal standard and by FM Global Property Loss Prevention Data Sheet 1-49 for application, but not less than thickness of metal being secured.

G. Seams:
   1. Fabricate nonmoving seams with flat-lock seams. Tin edges to be seamed, form seams, and solder.

2.6 ROOF-DRAINAGE SHEET METAL FABRICATIONS

A. Hanging Gutters:
   1. Fabricate to cross section required, complete with end pieces, outlet tubes, and other accessories as required.
   2. Fabricate in minimum 96-inch- long sections.
   3. Furnish flat-stock gutter brackets and flat-stock gutter spacers and straps fabricated from same metal as gutters, of size recommended by cited sheet metal standard, but with thickness not less than twice the gutter thickness.
   4. Fabricate expansion joints, expansion-joint covers, gutter bead reinforcing bars, and gutter accessories from same metal as gutters. Shop fabricate interior and exterior corners.
   5. Gutter Profile: 6 inch half-round, unless otherwise indicated, in accordance with cited sheet metal standard.
   8. Gutters with Girth up to 15 Inches: Fabricate from the following materials:
      a. Copper: 16 oz./sq. ft.

B. Built-in Gutters:
   1. Fabricate to cross section required, with riveted and soldered joints, complete with end pieces, outlet tubes, and other special accessories as required.
   2. Fabricate in minimum 96-inch- long sections. Fabricate expansion joints and accessories from same metal as gutters unless otherwise indicated.
   3. Fabricate gutters with built-in expansion joints.
   4. Accessories: Continuous, removable leaf screen with sheet metal frame and hardware cloth screen Bronze wire-ball downspout strainer.
   5. Fabricate from the following materials:
      a. Copper: 20 oz./sq. ft.

C. Downspouts: Fabricate round downspouts to dimensions indicated on Drawings, complete with mitered elbows. Furnish with metal hangers from same material as downspouts and anchors. Shop fabricate elbows.
   1. Fabricated Hanger Style: Fig. 1-35J, or as indicated in Drawing details., and in accordance with SMACNA's "Architectural Sheet Metal Manual."
   2. Fabricate from the following materials:
      a. Copper: 16 oz./sq. ft.
D. Parapet Scuppers: Fabricate scuppers to dimensions required, with closure flange trim to exterior, 4-inch-wide wall flanges to interior, and base extending 4 inches beyond cant or tapered strip into field of roof. Fabricate from the following materials:

1. Copper: 16 oz./sq. ft.

E. Conductor Heads: Fabricate conductor heads with flanged back and stiffened top edge and of dimensions and shape required, complete with outlet tubes, exterior flange trim. Fabricate from the following materials:

1. Copper: 16 oz./sq. ft.

F. Splash Pans: Fabricate to dimensions and shape required and from the following materials:

1. Copper: 16 oz./sq. ft.

2.7 LOW-SLOPE ROOF SHEET METAL FABRICATIONS

A. Roof Edge Flashing (Gravel Stop): Fabricate in minimum 96-inch-long, but not exceeding 12-foot-long sections. Furnish with 6-inch-wide, joint cover plates. Shop fabricate interior and exterior corners.

1. Joint Style: Butted with expansion space and 6-inch-wide, concealed backup plate.
2. Fabricate with drainage elements as indicated in Drawings, to dimensions required with 4-inch-wide flanges and base extending 4 inches beyond cant or tapered strip into field of roof. Fasten gravel guard angles to base of scupper.
3. Fabricate from the following materials:
   a. Copper: 20 oz./sq. ft. or lead-coated copper 20 oz/sq. ft., as indicated on Drawings.

B. Copings / caps: Fabricate in minimum 96-inch-long, but not exceeding 12-foot-long, sections. Fabricate joint plates of same thickness as copings. Furnish with continuous cleats to support edge of external leg and interior leg. Miter corners, fasten and seal watertight. Shop fabricate interior and exterior corners.

1. Coping Profile: As indicated on the drawings.
3. Fabricate from the following materials:
   a. Copper: 24 oz./sq. ft.

C. Roof and Roof-to-Wall Transition Expansion-Joint Cover: Fabricate from the following materials:

1. Copper: 16 oz./sq. ft.

D. Base Flashing: Shop fabricate interior and exterior corners. Fabricate from the following materials:

1. Copper: 20 oz./sq. ft.
E. Counterflashing: Shop fabricate interior and exterior corners. Fabricate from the following materials:
   1. Copper: 16 oz./sq. ft.

F. Flashing Receivers: Fabricate from the following materials:
   1. Copper: 16 oz./sq. ft.

G. Roof-Penetration Flashing: Fabricate from the following materials:
   1. Copper: 16 oz./sq. ft. or
   2. Copper-Clad Stainless Steel: 0.018 inch thick.

H. Roof-Drain Flashing: Fabricate from the following materials:
   1. Copper: 12 oz./sq. ft.

2.8 STEEP-SLOPE ROOF SHEET METAL FABRICATIONS

A. General: Use flashing materials as indicated in Drawings, and in accordance with the paragraphs below:

B. Sloped copings / caps. such as at gable ends and at balustrade:
   2. Copper: 24 oz./sq. ft.

C. Apron, Step, Cricket, and Backer Flashing: Fabricate from the following materials:
   1. Copper: 16 oz./sq. ft.
   2. Stainless Steel: 0.016 inch thick.

D. Valley Flashing: Fabricate from the following materials:
   1. Copper: 20 oz./sq. ft.

E. Drip Edges: Fabricate from the following materials:
   1. Copper: 16 oz./sq. ft.

F. Eave, Rake, Ridge, and Hip Flashing: Fabricate from the following materials:
   1. Copper: 16 oz./sq. ft.

G. Counterflashing: Shop fabricate interior and exterior corners. Fabricate from the following materials:
   1. Copper: 16 oz./sq. ft.
   2. Stainless Steel: 0.019 inch thick.
H. Flashing Receivers: Fabricate from the following materials:

1. Copper: 16 oz./sq. ft.

I. Roof-Penetration Flashing: Fabricate from the following materials:

1. Copper: 16 oz./sq. ft.

2.9 WALL SHEET METAL FABRICATIONS

A. Through-Wall Flashing: Fabricate continuous flashings in minimum 96-inch-long, but not exceeding 12-foot-long, sections, under copings, and at shelf angles. Fabricate discontinuous lintel, sill, and similar flashings to extend 6 inches beyond each side of wall openings; and form with 2-inch-high, end dams. Fabricate from the following materials, unless otherwise indicated in Drawings:

1. Copper: 16 oz./sq. ft.
2. Stainless Steel: 0.016 inch thick.

B. Wall Expansion-Joint Cover: Fabricate from the following materials:

1. Copper: 16 oz./sq. ft.

2.10 MISCELLANEOUS SHEET METAL FABRICATIONS

A. Equipment Support Flashing: Fabricate from the following materials:

1. Stainless Steel: 0.019 inch thick.

B. Formed Decorative Metal Cornice

1. Location: At roof perimeters, as indicated on Drawings.
2. Material: Copper: 16 oz./sq. ft.
3. Size and configuration: As indicated on Drawings.
4. Additive elements:
   a. Decorative elements indicated on Drawings, such as cornice dentils, should be formed in 12 or 16 oz. copper, and soldered.
5. Include provisions for expansion, as described in 2.3, "Fabrication, General".

PART 3 - EXECUTION

3.1 EXAMINATION

A. Examine substrates, areas, and conditions, with installer present, for compliance with requirements for installation tolerances, substrate, and other conditions affecting performance of the Work.

1. Verify compliance with requirements for installation tolerances of substrates.
2. Verify that substrate is sound, dry, smooth, clean, sloped for drainage, and securely anchored.
3. Verify that air- or water-resistant barriers have been installed over sheathing or backing substrate to prevent air infiltration or water penetration.

B. Proceed with installation only after unsatisfactory conditions have been corrected.

3.2 INSTALLATION OF UNDERLAYMENT

A. Self-Adhering, High-Temperature Sheet Underlayment:

1. Install self-adhering, high-temperature sheet underlayment; wrinkle free.
2. Prime substrate if recommended by underlayment manufacturer.
3. Comply with temperature restrictions of underlayment manufacturer for installation; use primer for installing underlayment at low temperatures.
4. Apply in shingle fashion to shed water, with end laps of not less than 6 inches staggered 24 inches between courses.
5. Overlap side edges not less than 3-1/2 inches. Roll laps and edges with roller.
6. Roll laps and edges with roller.
7. Cover underlayment within 14 days.

3.3 INSTALLATION, GENERAL

A. Install sheet metal flashing and trim to comply with details indicated and recommendations of cited sheet metal standard that apply to installation characteristics required unless otherwise indicated on Drawings.

1. Install fasteners, solder, protective coatings, separators, sealants, and other miscellaneous items as required to complete sheet metal flashing and trim system.
2. Install sheet metal flashing and trim true to line, levels, and slopes. Provide uniform, neat seams with minimum exposure of solder welds sealant.
3. Anchor sheet metal flashing and trim and other components of the Work securely in place, with provisions for thermal and structural movement.
4. Install sheet metal flashing and trim to fit substrates and to result in watertight performance.
5. Install continuous cleats with fasteners spaced not more than 12 inches o.c.
6. Space individual cleats not more than 12 inches apart. Attach each cleat with at least two fasteners. Bend tabs over fasteners.
7. Install exposed sheet metal flashing and trim with limited oil-canning, and free of buckling and tool marks.
8. Do not field cut sheet metal flashing and trim by torch.
9. Do not use graphite pencils to mark metal surfaces.

B. Metal Protection: Where dissimilar metals contact each other, or where metal contacts pressure-treated wood or other corrosive substrates, protect against galvanic action or corrosion by painting contact surfaces with bituminous coating or by other permanent separation as recommended by sheet metal manufacturer or cited sheet metal standard.
1. Coat concealed side of uncoated-aluminum and stainless steel sheet metal flashing and trim with bituminous coating where flashing and trim contact wood, ferrous metal, or cementitious construction.

2. Underlayment: Where installing sheet metal flashing and trim directly on cementitious or wood substrates, install underlayment and cover with slip sheet.

C. Expansion Provisions: Provide for thermal expansion of exposed flashing and trim.

1. Space movement joints at maximum of 10 feet with no joints within 24 inches of corner or intersection.
2. Form expansion joints of intermeshing hooked flanges, not less than 1 inch deep, filled with sealant concealed within joints.

D. Fasteners: Use fastener sizes that penetrate substrate not less than recommended by fastener manufacturer to achieve maximum pull-out resistance.

E. Conceal fasteners and expansion provisions where possible in exposed work and locate to minimize possibility of leakage. Cover and seal fasteners and anchors as required for a tight installation.

F. Seal joints as required for watertight construction.

1. Use sealant-filled joints unless otherwise indicated.
   a. Embed hooked flanges of joint members not less than 1 inch into sealant.
   b. Form joints to completely conceal sealant.
   c. When ambient temperature at time of installation is between 40 and 70 deg F, set joint members for 50 percent movement each way.
   d. Adjust setting proportionately for installation at higher ambient temperatures.
      1) Do not install sealant-type joints at temperatures below 40 deg F.
   2. Prepare joints and apply sealants to comply with requirements in Section 079200 "Joint Sealants."

G. Soldered Joints: Clean surfaces to be soldered, removing oils and foreign matter.

1. Pretin edges of sheets with solder to width of 1-1/2 inches; however, reduce pretinning where pretinned surface would show in completed Work.
2. Do not pretin zinc-tin alloy-coated copper.
3. Do not use torches for soldering.
4. Heat surfaces to receive solder, and flow solder into joint.
   a. Fill joint completely.
   b. Completely remove flux and spatter from exposed surfaces.
5. Stainless Steel Soldering:
   a. Tin edges of uncoated sheets, using solder for stainless steel and acid flux.
   b. Promptly remove acid-flux residue from metal after tinning and soldering.
   c. Comply with solder manufacturer’s recommended methods for cleaning and neutralization.
3.4 INSTALLATION OF ROOF-DRAINAGE SYSTEM

A. Install sheet metal roof-drainage items to produce complete roof-drainage system in accordance with cited sheet metal standard unless otherwise indicated. Coordinate installation of roof perimeter flashing with installation of roof-drainage system.

B. Hanging Gutters:
   1. See Drawings for locations and configurations of gutters.
      a. Gutters shape is drawn schematically on drawings. Fabricate with rolled/formed edges at both sides, for reinforcement, and otherwise as recommended in referenced performance standards.
   2. Join sections with riveted and soldered joints or joints sealed with sealant.
   3. Provide for thermal expansion.
   4. Provide end closures and seal watertight with sealant.
   5. Slope to downspouts.
   6. Fasten gutter spacers to front and back of gutter.
   7. Anchor and loosely lock back edge of gutter to continuous cleat.
   8. Anchor gutter with straps spaced not more than 30 inches apart to roof deck unless otherwise indicated, and loosely lock to front gutter bead.
      a. Gutter straps must extend all the way to outside edge of gutter. Shorter straps/other configurations will be rejected.
   9. Install gutter with expansion joints at locations indicated on Drawings, but not exceeding, 50 feet apart. Install expansion-joint caps.

C. Downspouts:
   1. Join sections with 1-1/2-inch telescoping joints.
   2. Provide hangers with fasteners designed to hold downspouts securely to walls.
   3. Locate hangers at top and bottom and at approximately 60 inches o.c.
   4. Connect downspouts to underground drainage system.
   5. Install downspouts plumb, unless shown otherwise in Drawings.

D. Parapet Scuppers:
   1. Continuously support scupper, set to correct elevation, and seal flanges to interior wall face, over cants or tapered edge strips, and under roofing membrane.
   2. Anchor scupper closure trim flange to exterior wall and seal with elastomeric sealant to scupper.
   3. Loosely lock front edge of scupper with conductor head.
   4. Seal with elastomeric sealant exterior wall scupper flanges into back of conductor head.

E. Conductor Heads: Anchor securely to wall, with elevation of conductor head rim at minimum of 1 inch below scupper or gutter discharge.

F. Expansion-Joint Covers: Install expansion-joint covers at locations and of configuration indicated on Drawings. Lap joints minimum of 4 inches in direction of water flow.
3.5 INSTALLATION OF ROOF FLASHINGS

A. Install sheet metal flashing and trim to comply with performance requirements, sheet metal manufacturer's written installation instructions, and cited sheet metal standard.

1. Provide concealed fasteners where possible, and set units true to line, levels, and slopes.
2. Install work with laps, joints, and seams that are permanently watertight and weather resistant.

B. Roof Edge Flashing:

1. Anchor to resist uplift and outward forces in accordance with recommendations in cited sheet metal standard unless otherwise indicated. Interlock bottom edge of roof edge flashing with continuous cleat anchored to substrate at staggered 3-inch centers.

C. Copings:

1. Anchor to resist uplift and outward forces in accordance with recommendations in cited sheet metal standard unless otherwise indicated.
   a. Interlock exterior bottom edge of coping with continuous cleat anchored to substrate at 16-inch centers.
   b. Anchor interior leg of coping with washers and screw fasteners through slotted holes at 24-inch centers.

D. Pipe or Post Counterflashing: Install counterflashing umbrella with close-fitting collar with top edge flared for elastomeric sealant, extending minimum of 4 inches over base flashing. Install stainless steel draw band and tighten.

E. Counterflashing: Coordinate installation of counterflashing with installation of base flashing.

1. Insert counterflashing in reglets or receivers and fit tightly to base flashing.
2. Extend counterflashing 4 inches over base flashing.
3. Lap counterflashing joints minimum of 4 inches.
4. Secure in waterproof manner by means of interlocking folded seam or blind rivets and sealant unless otherwise indicated.

F. Roof-Penetration Flashing: Coordinate installation of roof-penetration flashing with installation of roofing and other items penetrating roof. Seal with non-curingbutyl sealant and clamp flashing to pipes that penetrate roof.

3.6 INSTALLATION OF WALL FLASHINGS

A. Install sheet metal wall flashing to intercept and exclude penetrating moisture in accordance with cited sheet metal standard unless otherwise indicated. Coordinate installation of wall flashing with installation of wall-opening components such as windows, doors, and louvers.

B. Opening Flashings in Frame Construction: Install continuous head, sill, and similar flashings to extend 4 inches beyond wall openings.
C. Reglets: Installation of reglets is specified in Section 033000 "Cast-in-Place Concrete." Section 042000 "Unit Masonry."

1. Comply with referenced sheet metal standards, Drawings and installation recommendations of reglet manufacturer.

3.7 INSTALLATION OF DECORATIVE COPPER CORNICES

A. Install in accordance with details as indicated on Drawings.

B. Shop prime and paint cornices prior to installation. See section 099000 "Painting and Coating".

C. Seal exposed masonry-to-copper joint with STPE sealant, in accordance with section 079200 "Joint Sealants".

D. Seal concealed copper connections with butyl-type sealant.

E. Provide expansion joints at equal intervals sufficient to allow for longitudinal expansion and contraction.

3.8 INSTALLATION TOLERANCES

A. Installation Tolerances: Shim and align sheet metal flashing and trim within installed tolerance of 1/4 inch in 20 feet on slope and location lines indicated on Drawings and within 1/8-inch offset of adjoining faces and of alignment of matching profiles.

3.9 CLEANING

A. Clean exposed metal surfaces of substances that interfere with uniform oxidation and weathering.

B. Clean off excess sealants.

3.10 PROTECTION

A. Remove temporary protective coverings and strippable films as sheet metal flashing and trim are installed unless otherwise indicated in manufacturer's written installation instructions.

B. On completion of sheet metal flashing and trim installation, remove unused materials and clean finished surfaces as recommended in writing by sheet metal flashing and trim manufacturer.

C. Maintain sheet metal flashing and trim in clean condition during construction.

D. Replace sheet metal flashing and trim that have been damaged or that have deteriorated beyond successful repair by finish touchup or similar minor repair procedures, as determined by Architect.
END OF SECTION 076200
SECTION 096400 - WOOD FLOORING

PART 1 - GENERAL

1.1 STIPULATIONS

A. The specifications sections "General Conditions of the Construction Contract", "Special Conditions", and "Division 1 - General Requirements" form a part of this Section by this reference thereto, and shall have the same force and effect as if printed herewith in full.

1.2 SUMMARY

A. Section Includes:

1. Factory-finished wood flooring.

B. Related Requirements:

1. Section 096466 "Wood Athletic Flooring" for wood resilient systems used in sports-activity areas.

1.3 ACTION SUBMITTALS

A. Product Data: For each type of product.

B. Shop Drawings: For each type of floor assembly and accessory. Include plans, sections, and attachment details. Include expansion provisions and trim details.

C. Samples: For each exposed product and for each color and texture specified, approximately 12 inches long and of same thickness and material indicated for the Work and showing the full range of normal color and texture variations expected.

D. Samples for Initial Selection: Manufacturer's color charts showing the full range of colors and finishes available for wood flooring.

1. Include Samples of accessories involving color and finish selection.

E. Samples for Verification: For each type of wood flooring and accessory, with stain color and finish required, approximately 12 inches long and of same thickness and material indicated for the Work and showing the full range of normal color and texture variations expected.

1.4 MAINTENANCE MATERIAL SUBMITTALS

A. Furnish extra materials that match products installed and that are packaged with protective covering for storage and identified with labels describing contents.
1. Wood Flooring: Equal to 1 percent of amount installed for each type, color, and finish of wood flooring indicated.
   a. Where same flooring product is indicated for different subfloor types, provide separate mockup in order to demonstrate different subfloor preparation techniques required to achieve required conditions for installation of finish floor.

1.5 QUALITY ASSURANCE

A. Mockups: Build mockups to verify selections made under Sample submittals, to demonstrate aesthetic effects, and to set quality standards for materials and execution.

1. Approval of mockups does not constitute approval of deviations from the Contract Documents contained in mockups unless Architect specifically approves such deviations in writing.
2. Subject to compliance with requirements, approved mockups may become part of the completed Work if undisturbed at time of Substantial Completion, subject to the approved mockup's being maintained in the approved condition throughout the duration of the construction.

1.6 DELIVERY, STORAGE, AND HANDLING

A. Deliver wood flooring materials in unopened cartons or bundles.
B. Protect wood flooring from exposure to moisture. Do not deliver wood flooring until after concrete, masonry, plaster, ceramic tile, and similar wet-work is complete and dry.
C. Store wood flooring materials in a dry, warm, ventilated, weathertight location.

1.7 FIELD CONDITIONS

A. Conditioning period begins not less than seven days before wood flooring installation, is continuous through installation, and continues not less than seven days after wood flooring installation.

1. Environmental Conditioning: Maintain ambient temperature between 65 and 75 deg F and relative humidity planned for building occupants in spaces to receive wood flooring during the conditioning period.
2. Wood Flooring Conditioning: Move wood flooring into spaces where it will be installed, no later than the beginning of the conditioning period.
   a. Do not install flooring until it adjusts to relative humidity of, and is at same temperature as, space where it is to be installed.
   b. Open sealed packages to allow wood flooring to acclimatize immediately on moving flooring into spaces in which it will be installed.

B. After conditioning period, maintain relative humidity and ambient temperature planned for building occupants.
C. Install factory-finished wood flooring after other finishing operations, including painting, have been completed.

PART 2 - PRODUCTS

2.1 PERFORMANCE REQUIREMENTS

A. Hardwood Flooring: Comply with NWFA A500 for species, grade, and cut.
   1. Certification: Provide flooring that carries NWFA grade stamp on each bundle or piece.

B. Maple Flooring: Comply with applicable MFMA grading rules for species, grade, and cut.
   1. Certification: Provide flooring that carries MFMA mark on each bundle or piece.

C. Softwood Flooring: Comply with WCLIB No. 17 grading rules for species, grade, and cut.

2.2 FACTORY-FINISHED WOOD FLOORING

A. Engineered-Wood Flooring: HPVA EF, complying with requirements for composite wood products.
   1. Basis of Design Manufacturer and Product:
      a. HW-1 and HW-2:
         1) Basis of Design Manufacturer: TerraMai
            a) Product Wide Plank White Oak Engineered F/P
            b) Color: UV Cured, Matte
      2. Alternate acceptable manufacturers and products:
         a. Manufacturer: Resawn Timber
            1) Product: European White Oak.
            2) Color: White Oak, Matte
         b. Manufacturer: Pioneer Millworks.
            1) Product: Modern Farmhouse Rift Clean White Oak
            2) Color: As selected by Design Professional from manufacturer's full range of options within specified collection.
      3. Grade: Live Sawn.
      4. Thickness: 1/2 " or 5/8", depending on manufacturer selected.
      6. Face Widths: or 6" or 7", depending on manufacturer selected.
         a. Length: Manufacturer's longest standard length.
      7. Edge Style: Gently eased.

2.3 ACCESSORY MATERIALS

A. Wood Flooring Adhesive: Mastic recommended by flooring and adhesive manufacturers for application indicated.

C. Fasteners: As recommended by manufacturer, but not less than that recommended in NWFA's "Installation Guidelines."

PART 3 - EXECUTION

3.1 EXAMINATION

A. Examine substrates, areas, and conditions, with Installer present, for compliance with requirements for maximum moisture content, installation tolerances, and other conditions affecting performance of wood flooring.

B. Proceed with installation only after unsatisfactory conditions have been corrected.

C. Concrete Slabs: Verify that concrete substrates are dry and moisture-vapor emissions are within acceptable levels according to manufacturer's written instructions.

   1. Moisture Testing: Perform tests so that each test area does not exceed 1000 sq. ft., and perform no fewer than three tests in each installation area and with test areas evenly spaced in installation areas.
      a. Anhydrous Calcium Chloride Test: ASTM F1869. Proceed with installation only after substrates have maximum moisture-vapor-emission rate of 3 lb of water/1000 sq. ft. or limit recommended by approved flooring manufacturer in 24 hours.
      b. Relative Humidity Test: Using in situ probes, ASTM F2170. Proceed with installation only after substrates have a maximum 75 percent relative humidity level measurement.
      c. Perform additional moisture tests recommended by manufacturer. Proceed with installation only after substrates pass testing.

3.2 PREPARATION

A. Concrete Slabs:

   1. Grind high spots and fill low spots to produce a maximum 1/8-inch deviation in any direction when checked with a 10-foot straight edge.
   2. Use trowelable leveling and patching compounds, according to manufacturer's written instructions, to fill cracks, holes, and depressions in substrates.

B. Broom or vacuum clean substrates to be covered immediately before product installation. After cleaning, examine substrates for moisture, alkaline salts, carbonation, or dust. Proceed with installation only after unsatisfactory conditions have been corrected.
3.3 INSTALLATION

A. Comply with flooring manufacturer's written installation instructions, but not less than applicable recommendations in NWFA's "Installation Guidelines."

B. Provide expansion space at walls and other obstructions and terminations of flooring.

C. Vapor Retarder: Comply with the following for vapor retarder installation:
   1. Wood Flooring Installed Directly on Concrete: Install a layer of polyethylene sheet according to flooring manufacturer's written instructions.

D. Solid-Wood Flooring: Blind nail or staple flooring to substrate.
   1. Plank Flooring: For flooring of face width more than 3 inches:
      a. Hardwood: Install countersunk screws at each end of each piece in addition to blind nailing. Cover screw heads with wood plugs glued flush with flooring.
      b. Softwood: Install no fewer than two countersunk nails at each end of each piece, spaced not more than 16 inches along length of each piece, in addition to blind nailing. Fill holes with matching wood filler.

E. Solid-Wood Parquet Flooring: Set in adhesive in pattern indicated on Drawings.

F. Engineered-Wood Flooring: Set in adhesive, unless approved manufacturer recommends mechanical fastening or combination of adhesive and mechanical fastening.

3.4 PROTECTION

A. Protect installed wood flooring during remainder of construction period with covering of heavy kraft paper or other suitable material. Do not use plastic sheet or film that might cause condensation.
   1. Do not move heavy and sharp objects directly over kraft-paper-covered wood flooring. Protect flooring with plywood or hardboard panels to prevent damage from storing or moving objects over flooring.

END OF SECTION 096400
SECTION 097713 - STRETCHED-FABRIC WALL SYSTEMS

PART 1 - GENERAL

1.1 STIPULATIONS

A. The specifications sections "General Conditions of the Construction Contract", "Special Conditions", and "Division 1 - General Requirements" form a part of this Section by this reference thereto, and shall have the same force and effect as if printed herewith in full.

1.2 SUMMARY

A. Section includes site-upholstered wall systems.
   1. Note: Pre-stretched acoustical panel systems do not conform to the requirements of this section and will be rejected.

B. Related Requirements:
   1. Section 062000 Finish Carpentry

1.3 DEFINITIONS

A. NRC: Noise Reduction Coefficient.

B. SAA: Sound Absorption Average.

1.4 ACTION SUBMITTALS

A. Product Data: For each type of product.
   1. Include fabric facing, frame edge and trim, core material, and mounting indicated.

B. Shop Drawings: For each stretched-fabric system.
   1. Include plans, elevations, sections, and installation and system details.
   2. Include details at head, base, joints, and corners; and details at ceiling, floor base, and wall intersections. Indicate frame-edge profile and core materials.
   3. Include details at cutouts and penetrations for other work.
   4. Include direction of fabric weave and pattern matching.

C. Samples for Verification: For the following products:
   1. Fabric: Full-width by approximately 36-inch long Sample, but not smaller than required to show complete pattern repeat, from dye lot to be used for the Work, and with specified treatments applied. Mark top and face of fabric.
2. Liner Fabric
3. Frame System: 12-inch-square Sample(s) showing each edge profile and corner.
4. Core Material: 12-inch-square Sample at corner.
5. Assembled System: Approximately 36 by 36 inches, including joints in mockup.

1.5 INFORMATIONAL SUBMITTALS
A. Qualification Data: For Installer.

1.6 CLOSEOUT SUBMITTALS
A. Maintenance Data: For stretched-fabric systems to include in maintenance manuals. Include fabric manufacturer's written cleaning, stain-removal, restretching, and reupholstering instructions.

1.7 QUALITY ASSURANCE
A. Installer Qualifications: An authorized representative who is trained and approved by manufacturer.
B. Mockups: Build mockups to verify selections made under Sample submittals, to demonstrate aesthetic effects, and to set quality standards for materials, fabrication, and installation.
1. Build mockup of specific wall area 48 inches wide by full height. Include intersection of wall and ceiling, corners, and perimeters/frames.
2. Locate mockup in location acceptable to Contractor, Owner, and Design Professional.
3. Approval of mockups does not constitute approval of deviations from the Contract Documents contained in mockups unless Design Professional specifically approves such deviations in writing.
4. Subject to compliance with requirements, approved mockups may become part of the completed Work if undisturbed at time of Substantial Completion.
   a. If mockup is accepted, install protective cover over surface of panel for duration of project.

1.8 DELIVERY, STORAGE, AND HANDLING
A. Comply with fabric and stretched-fabric system manufacturers' written instructions for minimum and maximum temperature and humidity requirements for shipment, storage, and handling.
B. Deliver materials in unopened bundles and store in a temperature-controlled dry place with adequate air circulation.

1.9 FIELD CONDITIONS
A. Environmental Limitations: Do not install stretched-fabric systems until spaces are enclosed and weathertight, wet-work in spaces is complete and dry, work at and above ceilings is complete,
and ambient temperature and humidity conditions are maintained at the levels indicated for Project when occupied for its intended use.

B. Lighting: Do not install stretched-fabric systems until a permanent level of lighting is provided on surfaces to receive stretched-fabric systems.

C. Air-Quality Limitations: Protect stretched-fabric systems from exposure to airborne odors such as tobacco smoke, and install systems under conditions free from odor contamination of ambient air.

1.10 WARRANTY

A. Special Warranty: Manufacturer and Installer agree to repair or replace components of stretched-fabric systems that fail in performance, materials, or workmanship within specified warranty period.

1. Failures include, but are not limited to, the following:
   b. Fabric sagging, distorting, or releasing from panel edge.
   c. Warping of core.

2. Warranty Period: Two years from date of Substantial Completion.

PART 2 - PRODUCTS

2.1 MANUFACTURERS

A. Source Limitations: Obtain stretched-fabric wall systems specified in this Section from single source from single manufacturer.

2.2 PERFORMANCE REQUIREMENTS

A. Fire-Test-Response Characteristics: Stretched-fabric wall systems shall comply with "Surface-Burning Characteristics" or "Fire Growth Contribution" Subparagraph below, or both, as determined by testing identical products by UL or another testing and inspecting agency acceptable to authorities having jurisdiction:

1. Surface-Burning Characteristics: Comply with ASTM E 84 or UL 723; testing by a qualified testing agency on systems prepared according to ASTM E 2573. Identify products with appropriate markings of applicable testing agency.
   a. Flame-Spread Index: 25 or less.
   b. Smoke-Developed Index: 450 or less.

2. Fire Growth Contribution: Comply with acceptance criteria of local code and authorities having jurisdiction when tested according to NFPA 286.
2.3 STRETCHED-FABRIC WALL SYSTEMS

A. Stretched-Fabric Wall System: Manufacturer's standard system consisting of facing material stretched tightly over a frame and core material and secured in the frame.

1. Manufacturers: Subject to compliance with requirements, provide products by the following:
   c. Fabric Wall; www.fabric-wall.com

2. Core: Glass-fiber board
   a. Whispertone Wallboard as manufactured by Johns Manville or alternate approved manufacturer:
      1) GLT Products; www.gltproducts.com.
      2) Sound Seal; www.soundseal.com
   b. Nominal Core Thickness: 1 inch.

3. Frame Color: Prepainted color as selected by Design Professional from full range of manufacturer's colors.

4. Reveals between Panels: reveals as selected by Design Professional from manufacturer's full range.

5. Facing Material: As indicated on Drawings.

6. Acoustical Performance: Sound absorption NRC SAA of .75 according to ASTM C 423 for mounting according to ASTM E 795.

7. Nominal Overall System Thickness: 1 inch.

8. Core Color: As selected by Design Professional from manufacturer's range of colors.

2.4 MATERIALS

A. Core Materials:

1. Glass-Fiber Board: ASTM C 612; of type standard with manufacturer; nominal density of 6 to 7 lb/ft^2; unfaced, and dimensionally stable, molded rigid board; and with maximum flame-spread and smoke-developed indexes of 25 and 50, respectively.

B. Frame Construction: Manufacturer's standard, continuous, extruded plastic frame (track).

C. Facing Material: Fabric from same dye lot; color and pattern:

1. Basis of design manufacturer: Knoll.
   a. Product Line/Pattern: Heavy Metal.
   b. Color: Pewter.
   c. Width: As required for panel sizes as indicated in Drawings.

2. Acceptable alternate manufacturers & products:
   a. Carnegie Fabrics
      1) Product Line / Color: Coil / #6215.
   b. Maharam
      1) Product Line / Color: Chalet / #466324.

3. Lining Material: Manufacturer's recommended standard fabric for each use indicated.
a. Liner Color: Dark Neutral or white liner fabric to avoid color of panel core showing through finish fabric.
   1) For dark face-fabric colors: Dark Neutral liner fabric to avoid color of panel core showing through finish fabric.
   2) For light face-fabric colors: white liner fabric to avoid color of panel core showing through finish fabric.
   3) Light-colored liners visible through surface fabric will be rejected.

2.5 INSTALLATION MATERIALS

A. Installation Products: Concealed on back of system, recommended by stretched-fabric system manufacturer to support weight of system, fabric tension, and as follows:
   1. Fasteners: Manufacturer's standard.

B. If surrounding wood frames are indicated on Drawings, fabricate and finish in accordance with Drawing details and Sections 062000 Finish Carpentry and 099000 Painting and Coating.

PART 3 - EXECUTION

3.1 EXAMINATION

A. Examine fabric, materials, substrates, areas, and conditions, with Installer present, for compliance with requirements, installation tolerances, and other conditions affecting performance of stretched-fabric systems.

B. Proceed with installation only after unsatisfactory conditions have been corrected.

3.2 PREPARATION

A. Measure each area and establish layout of panels and joints of uniform size with balanced borders at opposite edges within a given area.

B. Before installation, allow fabric to adjust and become stable in spaces where it will be installed according to stretched-fabric system manufacturer's written instructions. Acclimatize fabric for minimum of 24 hours at ambient temperature and humidity conditions indicated for spaces when occupied for their intended use.

3.3 INSTALLATION

A. Install stretched-fabric systems according to system manufacturer's written instructions.
   1. Provide continuous perimeter frames of each profile indicated, designed to be inconspicuous when covered by fabric facing, with smooth edges, and with surface finish that will not telegraph through fabric facing.
   2. Install framing around penetrations.
   3. Tightly fit framing to adjacent construction and securely attach to substrate.
4. Install core material with full coverage, flush with face of stretched-fabric system frame.
5. Attach frame and core to substrate with adhesive or fasteners or both to support system and prevent deformation of components.
6. Install stretched-fabric systems level and plumb unless otherwise indicated, true in plane, and with fabric square to the grain.
7. Install jointed panels with butt joints and reveals as indicated.
8. Provide wood or plywood nailing strips and blocking as indicated on Drawings.

B. Fabric Installation: Apply fabric monolithically in continuous run over area, without joints or reveals, except where panel joints or midspan frames are indicated.

1. Install fabric liner under finish fabric to ensure that core panel color does not show through finish fabric. Ensure that liner is fully bonded to core so that finish fabric has unified core plus liner to adhere to.
2. Fabric Sequence: Maintain sequence of fabric drops; match and level fabric pattern and grain.
3. Fabric Alignment: Install fabric with patterns or directional weaves so pattern or weave aligns with adjacent panels.
4. Fabric Seams: Sewn seams are not permitted.
5. Core Overlay: Evenly stretch over core face and edges; free from puckers, ripples, wrinkles, and sags.
6. Stretch and secure fabric to frame edges and so frame and frame attachment method are concealed by fabric unless otherwise indicated.
7. Stretch fabric tightly and square without puckers, ripples, or distortions. Acclimatize and restretch if recommended by stretched-fabric system manufacturer. Repair distortions, wrinkles, and sagging.
8. Trim Strip: Back-wrap trim strip fabric from the fabric-insertion point over the exposed part of the frame edge where indicated, resulting in a contrasting fabric along the edge.

3.4 INSTALLATION TOLERANCES

A. Edge Straightness: Plus or minus 1/16 inch in 48 inches.

B. Variation from Level and Plumb: Plus or minus 1/16 inch in 48 inches, noncumulative.

C. Variation of Joint Width: Not more than 1/16 inch in 48 inches from hairline, noncumulative.

3.5 PROTECTION AND CLEANING

A. After installation of panels, protect from dust and damage from ongoing construction activity. Panels that are damaged or cannot be cleaned to original condition must be replaced regardless of responsibility for damage or dust.

B. Clip loose threads; remove pills and extraneous materials.

C. Clean panels on completion of installation to remove dust and other foreign materials according to manufacturer's written instructions.
PART 1 - GENERAL

1.1 STIPULATIONS

A. The specifications sections "General Conditions of the Construction Contract", "Special Conditions", and "Division 1 - General Requirements" form a part of this Section by this reference thereto, and shall have the same force and effect as if printed herewith in full.

1.2 SECTION INCLUDES

A. Surface preparation.
B. Field application of paints, stains, varnishes, and other coatings.
C. See Schedule - Surfaces to be finished, at end of Section.

1.3 RELATED REQUIREMENTS

A. Section 092900 “Gypsum Board” for gypsum board substrate requirements.
B. Section 024100 “Demolition” for additional information relating to lead paint.

1.4 REFERENCES

C. NACE (IMP) -Industrial Maintenance Painting; NACE International.
D. SSPC (PM1) -Steel Structures Painting Manual, Vol. 1, Good Painting Practice; Society for Protective Coatings.
E. NPCA - National Paint and Coatings Association; Gloss Standard.
F. Master Paint Institute (MPI) established paint categories and standards.
G. Ozone Transmission Commission (OTC) established levels of Volatile Organic Compounds.

1.5 DEFINITIONS

A. Conform to ASTM D 16 for interpretation of terms used in this section.
B. The verb "to paint" and the noun "paint", as used in these Contract Documents, refer to liquid coatings which cure to a durable film. Both clear and opaque coatings are included under the definition.

C. DFT as used in this Section refers to the Dry Film Thickness of the coating.

D. Enamel refers to any acrylic or alkyd (oil) base paint which dries leaving an eggshell, pearl, satin, semi-gloss or high gloss enamel finish.

E. Gloss levels as established by the National Paint & Coating Association (NPCA) using ASTM test method #D-523 are as follows:

1.6 SUBMITTALS

A. Product Data: Provide data on all finishing products and special coatings, including manufacturer's instructions for preparation and application.

B. Color Fan Deck: Submit Manufacturer's Fan Deck indicating full range of available colors for color selection by Design Professional. Upon selection of colors, provide samples of only those finishes requested by Design Professional. Provide a sample indicating sheen (gloss levels) for various products specified below.

C. Samples: Submit two painted samples, illustrating selected colors for each color and system selected. Submit on tempered hardboard, 12x12 inch in size.

1.7 QUALITY CONTROL

A. Manufacturer Qualifications: Company specializing in manufacturing the Products specified in this section with minimum three years documented experience.
   1. Inspection of all surfaces to be coated must be done by the manufacturer's representative to insure proper preparation prior to application.
   2. All thinners, fillers, primers and finish coatings must be from the same manufacturer to support a product warranty. Products other than those submitted must be accompanied by a letter stating its fitness for use and compatibility.

B. Installer Qualifications: Company specializing in performing the work of this section with minimum 5 years experience.

1.8 REGULATORY REQUIREMENTS

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

B. Volatile Organic Compound (VOC) Content:
   1. Provide coatings that comply with the most stringent requirements specified in the following:
1.9 PRE-INSTALLATION MEETING

A. A pre-installation meeting, occurring as part of a regularly scheduled project meeting, shall be held one week before starting work for mock-ups. Attendees shall include the Design Professional, Contractor, Client Agency, and applicable sub-contractors. Review of Mock-up procedures shall be reviewed during the pre-installation meeting along with any additional requirements/special procedures. A scheduled date/timeline to review mock-ups will be discussed during the pre-installation meeting with time allowed for additional mock-up reviews as required.

1.10 MOCK-UP

A. After selections and color samples are approved, Design Professional will request mock-ups of approved colors to typical parts of building for in situ observation and final approval. If color or mock-up is rejected by Design Professional, recreate mock-up with new color selection as directed by Design Professional. Design Professional may request up to three (3) mock-ups of color at each location. Upon approval of mock-up by Design Professional, Contractor may purchase paint quantities as required to complete the designated areas. Contractor shall not purchase paint color for the rest of the project prior to approval of mock-ups.

B. Mock-up(s) shall be located so that all colors selected for the room may be viewed adjacent to each other. Mock-ups shall be provided on movable panels. The panel substrate for the mock-up shall be the same material as location where paint will be applied. Locate mock-ups where they can be clearly seen in natural light where appropriate, and provide temporary lighting where necessary. Mock-ups shall include the following:

1. Wall color: Min. Size: 4 feet by 4 feet.
2. Trim: Min Size for Trim: 24 inches in length by Full Profile.
3. Doors: Entire Door.
5. Wood Paneled Surfaces: Min Size: 4 feet by 4 feet. Size of panel to be coordinated with Design Professional.

C. If more than one wall or ceiling color is specified for room, provide minimum 4 feet by 4 feet mock-up of each color specified. Ensure that the lighting quality in the space is equal for each color.

D. Upon approval mock-ups may remain as part of the Work as directed by Design Professional.

E. Allow for the following quantity of different color mock-ups:

1. Interior color mock-ups:
   a. Lobby/ Lounge area: Assume 2 wall colors.
   b. Boardroom
   c. Corridor.
   d. Classrooms.
   e. Typical Bathroom
f. Typical Office.

2. If Design Professional selects same colors to be used in Rooms above, Design Professional may reduce quantity of mock-ups required or substitute for a mock-up in another area.

1.11 DELIVERY, STORAGE, AND PROTECTION

A. Deliver products to site in sealed and labeled containers; inspect to verify acceptability.

B. Container Label: 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.

C. Paint Materials: Store 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.

D. Waste Management & Disposal

   1. Disposal containers for recycled materials must be established on site.
   2. Dispose of rags containing solvent, daily.
   3. Dispose of hazardous coatings in accordance with state, county and local regulations for hazardous waste disposal.

1.12 ENVIRONMENTAL REQUIREMENTS

A. Do not apply materials when surface and ambient temperatures are outside the temperature ranges required by the paint product manufacturer.

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: 45 degrees F for interiors; 50 degrees F for exterior; unless required otherwise by manufacturer's instructions.

D. Minimum Application Temperature for Varnish Finishes: 65 degrees F for interior or exterior, unless required otherwise by manufacturer's instructions.

1.13 EXTRA MATERIALS

A. Supply Two gallon(s) of each color, type, and surface texture; store where directed.

B. Label each container with color, type, texture, and room locations in addition to the manufacturer's label.
PART 2 - PRODUCTS

2.1 MANUFACTURERS

A. Paints:
   1. Basis of design Manufacturer: Sherwin-Williams
   2. Other Acceptable Manufacturers:
      a. Benjamin Moore
      b. Pratt & Lambert

B. Transparent Finishes:
   1. Basis of design Manufacturer: Sherwin Williams
   2. Other Acceptable Manufacturers:
      a. Lenmar (subsidiary of Benjamin Moore).
      b. Pratt & Lambert

C. Stains:
   1. Basis of design Manufacturer: Sherwin Williams
   2. Other Acceptable Manufacturers:
      a. Lenmar (subsidiary of Benjamin Moore).
      b. Pratt & Lambert

D. Primer Sealers:
   1. Basis of design Manufacturer: Sherwin-Williams
   2. Other Acceptable Manufacturers:
      a. Benjamin Moore
      b. Pratt & Lambert

E. Block Fillers:
   1. Basis of design Manufacturer: Sherwin-Williams
   2. Other Acceptable Manufacturers:
      a. Benjamin Moore
      b. ICI-Glidden

F. Projection Screen Paints:
   1. Basis of design Manufacturer: Goo Systems Global Inc.; www.goosystemsglobal.com
   2. Other Acceptable Manufacturers:

G. Paint Removal Products:
2. Other Acceptable Manufacturers, subject to compliance with requirements or Work:
3. See para. 2.06 for specific paint remover application / product types.

H. Substitutions: Requests for the Department’s approval of “equal” products/ systems or “substitutions” will not be considered during the bidding period.

2.2 PAINTS AND COATINGS - GENERAL
A. Paints and Coatings: Ready mixed, except field-catalyzed coatings. Prepare pigments:
   1. To a soft paste consistency, capable of being readily and uniformly dispersed to a homogeneous coating.
   2. For good flow and brushing properties.
   3. Capable of drying or curing free of streaks or sags.

B. Locations included for paints and coating products specified below are typical examples of sheens to be used. Contractor to review and coordinate sheens with Design Professional prior to commencement of work for mock-ups.

2.3 PAINT SYSTEMS - EXTERIOR
A. Wood, Clear Finish, 3 Coat, Semi-Gloss:
   1. 2 coats primer/sealer:
      a. Basis of design product: S-W Minwax® Water Based Pre-Stain Wood Conditioner
   2. 1 coat stain:
      a. Sherwin Williams, compatible with prime and finish coats.
   3. 2 coats clear finish:
      a. Basis of design product: S-W Water Based Minwax® Pro Series Spar Urethane
   4. Locations include but are not limited to beaded board ceilings at building entrances.

B. Concrete, Pre-Cast
   1. One coat of primer:
   2. Eggshell: Two coats.

C. Concrete Masonry/ Masonry, Opaque, Latex, 3 Coat:
   1. One coat of block filler.
      a. Basis of design product: S-W PrepRite Block Filler B25W25
   2. Eggshell: Two coats.
D. Ferrous Metals, Primed, Acrylic, 3 Coat:
   1. One coat primer.
      a. Basis of design product: S-W Pro Industrial Pro-Cryl Universal Primer B66-310 Series

E. Galvanized Metals, Acrylic, 3 Coat:
   1. One coat primer.
      a. Basis of design product: S-W Pro Industrial Pro-Cryl Universal Primer B66-310 Series

2.4 PAINT SYSTEMS - INTERIOR

A. Wood, Opaque, Latex, 3 Coat:
   1. One coat of latex primer sealer.
   2. Eggshell: Two coats of latex enamel.
   4. Note: Any interior woods with potential for tanin bleed, such as redwood or cedar, are to use the specification for exterior painted wood.

B. Wood, Transparent, Stain
   1. Filler coat for open grained wood only, if indicated in Drawings.
   2. Stain: One coat.
      a. Basis of design product: S-W / Minwax Performance Series Wood Stain 250 VOC

C. Concrete, Latex, 3 Coat:
   1. One coat of primer:
   2. Eggshell: Two coats.
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D. Concrete Floors: 2-Part Polyamine Epoxy Coating, Satin

1. Epoxy Coating: Two coats:
      1) Base tint: As selected by Design Professional from manufacturer's full range.
   2. Locations include but are not limited to concrete floors in mechanical rooms and other service rooms with concrete floors not indicated for other finish.

E. CMU/Masonry, Opaque, Latex, 3 Coat:

1. One coat of block filler.
   a. Basis of design product: S-W PrepRite Block Filler B25W25
2. Eggshell: Two coats.

F. Ferrous Metals, Acrylic, 3 Coat:

1. One coat of primer.
   a. Basis of design product: S-W Pro Industrial Pro-Cryl Universal Primer B66-310 Series
2. Satin: Two coats of latex enamel.
   a. Basis of design product: S-W Pro Industrial Waterborne Acrylic Dryfall Eg-Shell B42-82 Series
4. Locations include but are not limited to: Door frames, metal doors, interior metal fabrications indicated for painted finish.

G. Galvanized Metal, 3 Coat:

1. One coat primer.
   a. Basis of design product: S-W Pro Industrial Pro-Cryl Universal Primer B66-310 Series
2. Flat: 2 coats of latex enamel
   a. Basis of design product: S-W Pro Industrial Waterborne Acrylic Dryfall Flat B42-181 Series
3. Color: Coordinate Color of Product with Design Professional and Manufacturer for custom color as selected and approved by Design Professional.
4. Locations include but are not limited to: Metal roof deck, structural steel.

H. Galvanized Metal, Copper, 3 Coat:

1. One coat primer.
   a. Basis of design product: S-W Pro Industrial Pro-Cryl Universal Primer B66-310 Series

3. Locations include but are not limited to: Galvanized Hollow Metal Doors and Frames, copper cornices and other exposed copper roofing elements designated for painting.

I. Gypsum Board/Plaster, Latex-Acrylic, 3 Coat:

1. One coat of latex primer sealer.
   a. Basis of design product: S-W Multi-Purpose Water-based Acrylic-Alkyd Primer

2. Semi-gloss: Two coats of latex enamel.
   b. Locations include but are not limited to trim.

3. Eggshell: Two coats of latex enamel.
   b. Locations include but are not limited to Walls

4. Flat: Two coats of latex enamel.
   a. Basis of design product: S-W ProMar 200 Zero VOC Latex Flat, B30-2600 Series
   b. Locations include but are not limited to: Ceilings

2.5 ACCESSORY MATERIALS

A. Accessory Materials: Linseed oil, shellac, turpentine, paint thinners and other materials not specifically indicated but required to achieve the finishes specified; commercial quality and as recommended by Manufacturer.

B. Patching Material: Latex filler.

C. Fastener Head Cover Material: Latex filler.

2.6 PAINT REMOVAL

A. Peel Away 1 for removal of oil or latex paint from substrates that are to receive opaque paint finishes.

B. Peel Away 4 for removal of lime, cementitious, zinc, or other similar coatings from masonry surfaces.

C. Peel Away 6 or 7 for removal of oil or latex paint from wood surfaces that are to receive transparent or stain finishes.

D. Peel Away 8 for removal of oil or latex paint from substrates that are to receive opaque paint finishes and are located in buildings that will continue to be occupied during construction or that have poor ventilation.

E. Neutralizer, when required by manufacturer.
PART 3 - EXECUTION

3.1 EXAMINATION

A. Verify that surfaces are ready to receive Work as instructed by the product manufacturer.

B. Examine surfaces scheduled to be finished prior to commencement of work. Report any condition that may potentially affect proper application.

C. Test shop-applied primer for compatibility with subsequent cover materials.

D. 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. Masonry, Concrete, and Concrete Unit Masonry: 12 percent.
3. Interior Wood: 15 percent, measured in accordance with ASTM D 4442.
4. Exterior Wood: 15 percent, measured in accordance with ASTM D 4442.
5. Concrete Floors: 8 percent.

3.2 PAINT REMOVAL

A. Remove existing paint only where and as indicated in Drawings or Specifications. If existing painted surfaces are indicated to be refinished with clear/transparent finishes, removal of paint shall be assumed to be part of the scope of work.

B. Select paint removal product as appropriate for coatings being removed, substrates, and final finish.

1. Instead of chemical stripping using products listed above, alternate paint removal method may include use of infrared heating tool (such as Speedheater 1100 from Eco-Strip). Obtain written approval from Design Professional for this substitution.
2. Removal using open flame, heat plate, methylene chloride, or any other system other than specified is not permitted, unless all approved removal techniques are determined to be ineffective and alternates are approved in writing by Design Professional.

C. Follow manufacturer's guidelines for preparation, application, removal, and neutralization.

D. Dispose of wastings according to pertinent regulations for lead based paint, unless contractor testing proves that existing paint does not contain lead.

E. Prepare newly exposed surface as per preparation specifications below.

3.3 PREPARATION

A. Surface Appurtenances: Remove electrical plates, hardware, light fixture trim, escutcheons, and fittings prior to preparing surfaces or finishing. Re-install removed items upon completion of finishing.
B. Surfaces: Correct defects and clean surfaces which affect work of this section. Remove or repair existing coatings that exhibit surface defects.

C. Marks: Seal with shellac those which may bleed through surface finishes.

D. Concrete and Unit Masonry Surfaces to be Painted: Remove dirt, loose mortar, scale, salt or alkali powder, and other foreign matter. Remove oil and grease with a solution of tri-sodium phosphate; rinse well and allow to dry. Remove stains caused by weathering of corroding metals with a solution of sodium metasilicate after thoroughly wetting with water. Allow to dry.

E. Gypsum Board Surfaces to be Painted: Fill minor defects with filler compound. Spot prime defects after repair.

F. Plaster Surfaces to be Painted: Fill hairline cracks, small holes, and imperfections with latex patching plaster. Make smooth and flush with adjacent surfaces. Wash and neutralize high alkali surfaces.

G. Insulated Coverings to be Painted: Remove dirt, grease, and oil from canvas and cotton.

H. Concrete Floors to be Painted: Remove contamination, acid etch, and rinse floors with clear water. Verify required acid-alkali balance is achieved. Allow to dry.

I. Aluminum Surfaces to be Painted: Remove surface contamination by steam or high pressure water. Remove oxidation with acid etch and solvent washing. Apply etching primer immediately following cleaning.

J. Galvanized Surfaces to be Painted: Remove surface contamination and oils and wash with solvent. Apply coat of etching primer.

K. Uncoated Steel and Iron Surfaces to be Painted: Remove grease, mill scale, weld splatter, dirt, and rust. Where heavy coatings of scale are evident, remove by hand wire brushing or sandblasting; clean by washing with solvent. Apply a treatment of phosphoric acid solution, ensuring weld joints, bolts, and nuts are similarly cleaned. Prime paint entire surface; spot prime after repairs.

L. Shop-Primed Steel Surfaces to be Finish Painted: Sand and scrape to remove loose primer and rust. Feather edges to make touch-up patches inconspicuous. Clean surfaces with solvent. Prime bare steel surfaces.

M. Interior Wood Items to Receive Opaque Finish: Wipe off dust and grit prior to priming. Seal knots, pitch streaks, and sappy sections with sealer. Fill nail holes and cracks after primer has dried; sand between coats. Back prime concealed surfaces before installation.

N. Interior Wood Items to Receive Transparent 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. Prime concealed surfaces with gloss varnish reduced 25 percent with thinner.

O. Exterior Wood to Receive Opaque Finish: Remove dust, grit, and foreign matter. Seal knots, pitch streaks, and sappy sections. Fill nail holes with tinted exterior calking compound after prime coat has been applied. Back prime concealed surfaces before installation.
P. Exterior Wood to Receive Transparent Finish: Remove dust, grit, and foreign matter; seal knots, pitch streaks, and sappy sections with sealer. Fill nail holes with tinted exterior calking compound after sealer has been applied. Prime concealed surfaces.

Q. Wood Surfaces:
1. Verify wood surfaces free of rot, decay, or other conditions that may effect long-term paint adhesion. Wood that accepts a sharp utility knife blade to a depth of 1/4” or greater will require stabilization prior to painting. See Section 06200 for wood repair specifications.
2. Use primers and sealers as recommended by manufacturer for applicable substrate, especially when painting bleeding or sappy woods (such as douglas fir, mahogany, redwood, cedar, etc) and for sealing knots.
3. Use preconditioner on open pore / wide grained woods prior to staining. Test on a sample prior to apply to finish materials.

R. Metal Doors to be Painted: Prime metal door top and bottom edge surfaces.

S. Intumescent Coatings:
1. Apply primer and fireproofing in accordance with manufacturer’s instructions. Do not apply to surfaces which would prohibit proper adhesion.
2. Apply primer according to primer manufacturer’s recommendations. Provide primer “cut-back” three inches for bolted connections and 12 inches for welded connections.
3. Apply intumescent coating as recommended by manufacturer. Apply fireproofing in sufficient thickness to achieve rating, with as many passes necessary to cover with monolithic blanket of uniform hardness, density and texture. Spray, and roll smooth the finished surface. Prevent building up the thickness too rapidly which will cause mud cracks, sagging and sliding.
   a. The required finish appearance of Intumescent Coating Product is easily and quickly achieved through the use of airless spray equipment. Surface irregularities and especially flange edges, can be smoothed by light rolling with a foam roller or brush immediately after spraying. Keep the roller or brush wet with water to avoid "picking up" the applied material.
   b. Where Intumescent Coating Product has dried hard, leaving globs or other unsightly areas, a surform or grinder can be used to correct or even out these areas as recommended by manufacturer and approved by Design Professional.
   c. Finish product to be relatively smooth and neat as and as approved by Design Professional.

T. Previously Painted Surfaces.
1. Where existing paint is to remain and be painted over, thoroughly remove all loose, alligatored, curled, cracked, or otherwise damaged paint.
   a. At locations adjacent to existing windows/existing glazing: remove any existing paint from glass surfaces prior to painting window trim, frame, sill, etc.
2. Where there are areas of missing paint that create a change in finish plane, patch smooth. If change in plane is minimal (as determined by Design Professional), sand edges to create a smooth transition between planes.
3. Painting over existing oil-based paints.
   a. After proper surface preparation, apply oil based primer.
b. Apply either oil-based or latex paint as specified. If more than 5 coats of existing paint are on the surface, do not use latex paint.

4. Unless proven otherwise by contractor, all surface preparation over existing paint should be performed based on the assumption that the existing paint is lead based. Protect individuals and worksite, and dispose of waste according to pertinent regulations for lead based paint.

3.4 APPLICATION

A. Apply products in accordance with manufacturer's instructions.

B. Where adjacent sealant is to be painted, do not apply finish coats until sealant is applied.

C. Do not apply finishes to surfaces that are not dry. Allow applied coats to dry before next coat is applied.

D. Apply each coat to uniform appearance. Apply each coat of paint slightly darker than preceding coat unless otherwise approved.

E. Apply paint evenly. Produce uniform surfaces. Avoid runs, sags, brush or roller marks, "holidays", differences in sheen or color, and other blemishes.

F. Design Professional has specified number of coats of paint based on the assumption that quality of paint, opacity of pigments, extent of thinning, and quality of workmanship will be good. If Contractor disputes Design Professional's scheduled systems, notify Design Professional in writing before starting work. Otherwise, apply additional coats as required to achieve performance requirements specified in paragraph E above.

G. Force paint into cracks and seams.

H. Cut straight, neat edges. Curved edges shall be uniform and neat.

I. Sand wood and metal surfaces lightly between coats to achieve required finish.

J. Vacuum clean surfaces of loose particles. Use tack cloth to remove dust and particles just prior to applying next coat.

K. Where clear finishes are required, tint fillers to match wood. Work fillers into the grain before set. Wipe excess from surface.

3.5 FINISHING MECHANICAL AND ELECTRICAL EQUIPMENT

A. Refer to Section MEP Specifications for schedule of color coding of equipment, duct work, piping, and conduit.

B. Paint shop-primed equipment, where indicated.

C. Remove unfinished louvers, grilles, covers, and access panels on mechanical and electrical components and paint separately.
D. Finish equipment, piping, conduit, and exposed duct work in utility areas in colors according to the color coding scheme indicated.

E. Reinstall electrical cover plates, hardware, light fixture trim, escutcheons, and fittings removed prior to finishing.

3.6 CLEANING

A. Collect waste material which may constitute a fire hazard, place in closed metal containers, and remove daily from site.

3.7 SCHEDULE - SURFACES TO BE FINISHED

A. Note: It is the intent of the drawings and specifications that all existing surfaces within the work area that are currently painted or stained will be repainted or re-stained as part of the project scope, unless specifically noted otherwise.

B. Do Not Paint or Finish the Following Items:

1. Items fully factory-finished unless specifically noted.
2. Fire rating labels, equipment serial number and capacity labels.
3. Stainless steel items.

C. Paint the surfaces described in Part 2, Paint Systems Articles.

D. Mechanical and Electrical: Use paint systems defined for the substrates to be finished.

1. Paint all insulated and exposed pipes, conduit, brackets, and mechanical equipment occurring in finished areas to match background surfaces, unless otherwise indicated.
2. Paint shop-primed items occurring in finished areas.
3. Paint interior surfaces of air ducts and convector and baseboard heating cabinets that are visible through grilles and louvers with one coat of flat black paint to visible surfaces.
4. Paint dampers exposed behind louvers, grilles, and convector and baseboard cabinets to match face panels.
5. Paint exposed faces of diffusers, registers, and grilles to match adjacent wall or ceiling color.

E. Stair Tower

1. Paint all exposed surfaces in stair tower including but not limited to the following:
   a. Standpipe (where permitted by Code.)
   b. Underside of stairs.
   c. Railings.
   d. Walls
   e. Ceilings.
3.8 SCHEDULE - COLORS

A. Design Professional will issue color choices later. Match colors issued by Design Professional exactly. Assume the following color patterns:

1. One wall color per room, unless noted otherwise.
2. One ceiling color per room, unless noted otherwise.
3. One trim color per room, unless noted otherwise.
4. One door color per room, unless noted otherwise.
5. One transparent finish on wood paneled surfaces per room, unless noted otherwise.
6. Concealed surfaces, such as door bottoms, shall be painted the same as the adjacent exposed surfaces or shall be painted gray, at Contractor's option.
7. Areas requiring matching of historic colors:
   a. All visible exterior sheet copper elements, unless specifically noted otherwise, including cornices, cupolas, gable ends, roof acroterions, skylight drum sheet metal, balustrade:
      1) Color to be matched: Benjamin Moore Cayman Islands 952.
      2) New flat and standing seam copper roofing shall not be painted.
   a. Changes in plain and stair edges in all Mechanical Spaces.

END OF SECTION 099000
SECTION 122413 - ROLLER WINDOW SHADES

PART 1 - GENERAL

1.1 STIPULATIONS

A. The specifications sections "General Conditions of the Construction Contract", "Special Conditions", and "Division 1 - General Requirements" form a part of this Section by this reference thereto, and shall have the same force and effect as if printed herewith in full.

1.2 SUMMARY

A. Section Includes:

1. Manually operated roller shades with single rollers.

B. Related Requirements:

1. Section 061000 "Rough Carpentry" for wood blocking and grounds for mounting roller shades and accessories.

1.3 ACTION SUBMITTALS

A. Product Data: For each type of product.

1. Include construction details, material descriptions, dimensions of individual components and profiles, features, finishes, and operating instructions for roller shades.

B. Shop Drawings: Show fabrication and installation details for roller shades, including shadeband materials, their orientation to rollers, and their seam and batten locations.

C. Samples for Initial Selection: For each type and color of shadeband material.

1. Include Samples of accessories involving color selection.

D. Samples for Verification: For each type of roller shade.

1. Shadeband Material: Not less than 10 inches square. Mark interior face of material if applicable.

E. Product Schedule: For roller shades.

1. Schedule shall indicate shade types and accessories for each space for which shades are indicated in the Drawings.
1.4 INFORMATIONAL SUBMITTALS
   A. Qualification Data: For Installer.

1.5 CLOSEOUT SUBMITTALS
   A. Operation and Maintenance Data: For roller shades to include in maintenance manuals.

1.6 DELIVERY, STORAGE, AND HANDLING
   A. Deliver roller shades in factory packages, marked with manufacturer, product name, and location of installation using same designations indicated on Drawings.

1.7 FIELD CONDITIONS
   A. Environmental Limitations: Do not install roller shades until construction and finish work in spaces, including painting, is complete and dry and ambient temperature and humidity conditions are maintained at the levels indicated for Project when occupied for its intended use.
   B. Field Measurements: Where roller shades are indicated to fit to other construction, verify dimensions of other construction by field measurements before fabrication and indicate measurements on Shop Drawings. Allow clearances for operating hardware of operable glazed units through entire operating range. Notify Architect of installation conditions that vary from Drawings. Coordinate fabrication schedule with construction progress to avoid delaying the Work.

PART 2 - PRODUCTS

2.1 MANUFACTURERS
   A. Source Limitations: Obtain manual roller shades and accessories from single source/manufacturer. Obtain motorized roller shades and accessories from single source/manufacturer.

2.2 MANUALLY OPERATED SHADES WITH SINGLE ROLLERS
   A. Manufacturers & Product: Basis of Design: WT Shade, H100 Slim
   B. Alternate acceptable manufacturers:
      1. Draper, Inc.
      2. Lutron, Inc.
      3. Mecho-Shade Systems, Inc.
   C. Locations: Where indicated on Drawings.
D. **Basis-of-Design Product:** Subject to compliance with requirements, provide MechoShade Systems, Inc; Mecho/5 manual shade or comparable product by one of the following:

1. Draper Inc.; Clutch Operated FlexShade
2. Levolor; Manual Roller Shades.

E. **Chain-and-Clutch Operating Mechanisms:** With continuous-loop bead chain and clutch that stops shade movement when bead chain is released; permanently adjusted and lubricated.

1. **Bead Chains:** Manufacturer's standard Nickel-plated metal or Stainless steel.
   a. **Loop Length:** Full length of roller shade.
   b. **Limit Stops:** Provide upper and lower ball stops.
   c. **Chain-Retainer Type:** Clip, jamb mount.

F. **Rollers:** Corrosion-resistant steel or extruded-aluminum tubes of diameters and wall thicknesses required to accommodate operating mechanisms and weights and widths of shadebands indicated without deflection. Provide with permanently lubricated drive-end assemblies and idle-end assemblies designed to facilitate removal of shadebands for service.

1. **Roller Drive-End Location:** Right side of interior face of shade or as indicated on Drawings.
2. **Direction of Shadeband Roll:** Regular, from back (exterior face) of roller.
3. **Shadeband-to-Roller Attachment:** Manufacturer's standard method.

G. **Mounting Hardware:** Brackets or endcaps, corrosion resistant and compatible with roller assembly, operating mechanism, installation accessories, and mounting location and conditions indicated.

H. **Roller-Coupling Assemblies:** Coordinated with operating mechanism and designed to join up to three inline rollers into a multiband shade that is operated by one roller drive-end assembly.

I. **Shadebands:**

1. **Shadeband Material:** Light-filtering fabric as indicated in Drawings.
2. **Shadeband Bottom (Hem) Bar:** Steel or extruded aluminum.
   a. **Type:** Exposed with endcaps.
   b. **Color and Finish:** As selected by Architect from manufacturer's full range.

2.3 SHADEBAND MATERIALS

A. **Shadeband Material Flame-Resistance Rating:** Comply with NFPA 701. Testing by a qualified testing agency. Identify products with appropriate markings of applicable testing agency.

B. **Light-Filtering Fabric:** Woven fabric, stain and fade resistant.

1. **Source:** Roller shade manufacturer.
2. **Weave:** Basketweave - Mermet EScreen.
3. **Openness Factor:** 3 percent.
4. **Color:** As selected by Architect from manufacturer's full range.
2.4 ROLLER SHADE FABRICATION

A. Product Safety Standard: Fabricate roller shades to comply with WCMA A 100.1, including requirements for flexible, chain-loop devices; lead content of components; and warning labels.

B. Unit Sizes: Fabricate units in sizes to fill window and other openings as follows, measured at 74 deg F:

1. Between (Inside) Jamb Installation: Width equal to jamb-to-jamb dimension of opening in which shade is installed less 1/4 inch per side or 1/2-inch total, plus or minus 1/8 inch. Length equal to head-to-sill or -floor dimension of opening in which shade is installed less 1/4 inch, plus or minus 1/8 inch.

C. Shadeband Fabrication: Fabricate shadebands without battens or seams to extent possible, except as follows:

1. Vertical Shades: Where width-to-length ratio of shadeband is equal to or greater than ratio recommended by shade manufacturer, provide battens and seams at uniform spacings along shadeband length to ensure shadeband tracking and alignment through its full range of movement without distortion of the material.

PART 3 - EXECUTION

3.1 EXAMINATION

A. Examine substrates, areas, and conditions, with Installer present, for compliance with requirements for installation tolerances, operational clearances, and other conditions affecting performance of the Work.

B. Proceed with installation only after unsatisfactory conditions have been corrected.

3.2 ROLLER SHADE INSTALLATION

A. Install roller shades level, plumb, and aligned with adjacent units according to manufacturer's written instructions.

1. Opaque Shadebands: Located so shadeband is not closer than 2 inches to interior face of glass. Allow clearances for window operation hardware.

B. Roller Shade Locations: As indicated on Drawings.

3.3 ADJUSTING

A. Adjust and balance roller shades to operate smoothly, easily, safely, and free from binding or malfunction throughout entire operational range.
3.4 CLEANING AND PROTECTION

A. Clean roller shade surfaces, after installation, according to manufacturer's written instructions.

B. Provide final protection and maintain conditions, in a manner acceptable to manufacturer and Installer, that ensure that roller shades are without damage or deterioration at time of Substantial Completion.

C. Replace damaged roller shades that cannot be repaired, in a manner approved by Architect, before time of Substantial Completion.

3.5 DEMONSTRATION

A. Engage a factory-authorized service representative or other knowledgeable personnel to train Owner's maintenance personnel to adjust, operate, and maintain motor-operated roller shades.

END OF SECTION 122413
ADDENDUM NO. 2

on

PROJECT NO. DGS C-1101-0053 PHASE 1
Vail Hall Renovations – Lincoln University – Oxford Township, Chester County, Pennsylvania

Voith and Mactavish LLC
2401 Walnut Street 6th floor
Philadelphia, PA 19103

ADMINISTRATIVE CHANGES – ALL CONTRACTS

GENERAL CHANGES – ALL CONTRACTS

RFI RESPONSES - CONTRACT DGS C-1101-0053 ALL PHASES

1. Requests for substitutions may not considered during the bidding stage of the project. Once the project moves into construction, the request for substitution/equal can be entertained.

2. A copy of the sign in sheet from the Pre-Proposal Meeting on 02/15/22 has been posted to the DGS website.

3. The contract duration was incorrected noted to be 651 calendar days in specification 010100, section 1.4. The correct duration is 560 days as per the RFP. A revised 010100 is included in the addendum.

4. If awarded the contract, the prime contractor must enter subcontracts with all entities it submitted under Section T-1C of the RFP.

5. The descriptions of unit prices listed in specification section 010250 were incorrect. A revised 010250 is included in the addendum. The listing of unit prices has not changed, only the descriptions.

RFI RESPONSES - CONTRACT DGS C-1101-0053 PHASE 1.1

1. Appendix G of the General Construction for the Designated Critical Work Qualifications Statement should provide two separate listings – one each for both masonry & masonry restoration.

2. No terrazzo base is required. Bid project as drawn. See interior elevations for details.

3. Only one, (1), terrazzo color is desired for BB#2/3. Brass divider strips are to excentuate cased openings. See updated A9.X series.

4. Single piece terrazzo treads & risers are required for Base Bid #2/3 at Stair Hall 101. Base Bid #1 to be slate stair treads and risers at Stair Hall 101.

5. Section 096623, 1.4.A.1 calls for bronze divider strips in Terrazzo. The divider strip should be called out as brass.
6. Slate floor is to be provided at North Vestibule 100. The floor finish does not run continuously under the floor mat, the mat product is to be installed flush with the finished surface of the slate.

7. An updated finish schedule and Base Bid specification section is provided to clarify the intent of solid surface vs. quartz countertops. Base Bid 1 should be solid surface, Base bids 2 and 3 should be quartz.

8. Waterproofing is to be included in all base bids. See revised A1.1 for waterproofing extent.

9. Include the removal and reinstallation of existing site benches in the bid. Coordinate location of reinstallation with owner, architect, and landscape architect in field, or provide a credit to the owner if benches are not re-installed.

10. A window into Room 122A is not shown on the plans or interior elevations, but is should on the exterior elevations. The intent is that this opening be infilled with brick to match the existing adjacent brick, with a 4” recess to maintain the profile of the existing opening. Please see revised exterior elevations.

11. Drapery is an FFE item per DGS guidelines and was shown for reference purposes only. Drapery is not included in the scope of work.

12. Section 122413, Section 2.2 called out WT as the basis of design in section A, and Mecho in section D. Sections A and B were included in the specification in error. Please see the revised 122413, which eliminates the references to WT shades.

13. No accessories (soap or paper-towels) are required in the kitchens.

14. Six fire extinguishers are located on the plans G-2 because of required travel distances, although the required quantity is listed as 4 in the table on sheet G-1. Provide (1) 2-A extinguisher at each of the (6) locations.

RFI RESPONSES - CONTRACT DGS C-1101-0053 PHASE 1.2

RFI RESPONSES - CONTRACT DGS C-1101-0053 PHASE 1.3

RFI RESPONSES - CONTRACT DGS C-1101-0053 PHASE 1.4

1. Lincoln University’s monitoring security system is located, to the best of our knowledge, at the Campus Safety/Police office. The .4 contractor will need to confirm with the university current monitoring location. Refer to Civil/Electrical drawings for underground re-work.

2. Security cameras will have one (1) CAT6A cable to each location.

3. Provide (3) 4” PVC Conduits at the ductbank. Ductbanks to be 3’-0” minimum below grade, with 6” concrete cover as measured from the center line of each conduit and 7-1/2” between conduit centers. Provide (3) #4 rebars top of bottom, and #4 support rods at 48” o.c. Ductbanks shall have 3000 PSI Concrete encasement. Provide reinforcing steel where crossing driveways, walkways, and within 5’-0” of walls or other structural foundations.

SPECIFICATION CHANGES – CONTRACT NO. DGS C-1101-0053 PHASE 1.1

Item 1 – TABLE OF CONTENTS
- Table of Contents replaced to reflect replacement of Section 098433 – SOUND-ABSORBING WALL UNITS with Section 097713 - STRETCHED-FABRIC WALL SYSTEMS.

Item 2 – Section 010100 – SUMMARY OF WORK
- Heading 1.4: Construction schedule modified from 651 days to 560 days.
Item 3 – Section 010250 UNIT PRICES IN LUMP SUM CONTRACTS
- The descriptions of unit prices listed in specification section 010250 were incorrect. A revised 010250 is included in the addendum. The listing of unit prices has not changed, only the descriptions.

Item 4 – Section 010300 – BASE BID DESCRIPTIONS
- Heading 1.3.A.2: Additional Base Bid 2 alternate, for upgrade of solid surface to quartz agglomerate.

Item 5 – Section 050170.61 – DECORATIVE METAL REPAIR
- Heading 1.2: Indicated that spec also covers new decorative metal elements.
- Heading 2.5: Description of new-to-match-existing decorative copper elements.
- Heading 3.2: Clarification that replacement may refer either to a currently missing decorative element, originally present, or to damaged decorative elements designated for removal and replacement rather than restoration.

Item 6 – Section 062000 – FINISH CARPENTRY
- Heading 2.4: Finish for exterior beaded board ceiling changed from painted to stained.

Item 7 – Section 076200 – SHEET METAL FLASHING AND TRIM
- Heading 2.6: Separate provision added for built-in gutters versus hanging gutters.
- Heading 2.7: Expansion joint style changed to slip joint.
- Heading 2.7: Coping provision language adjusted to also cover items described on drawings as “caps”.
- Heading 2.8: Valley flashing copper weight raised to 20 oz./sq. ft. from 16 oz./sq. ft.
- Heading 2.8: Provision added for copings/caps.
- Heading 2.10: Requirement for provision of copper cornice expansion joints called out; option to fabricate cornice dentils in 12 oz or 16 oz copper added.
- Heading 3.4: Note added that hanging gutters are represented schematically on drawings and should be fabricated in accordance with referenced standards.

Item 8 – Section 096400 – WOOD FLOORING
- Heading 3.3: Installation stipulations modified. Wood floor to be installed directly to concrete. Vapor retarder to be installed according to manufacturer’s written instructions.

Item 9 – Section 097713 – STRETCHED FABRIC WALL SYSTEM
- Replaced 098433 Sound absorbing wall units.

Item 10 – Section 098433 – SOUND-ABSORBING WALL UNITS
- This section has been deleted and contents have been moved to Section 097713 STRETCHED-FABRIC WALL SYSTEMS.

Item 11 – Section 099000 – PAINTING AND COATING
- Heading 2.3: Product information added for exterior clear-finish wood.
- Heading 2.4: Product information added for 2-part epoxy coating for concrete floors.
- Heading 3.8: Information about historic paint color for use at exterior copper.

Item 12 – Section 122413 ROLLER WINDOW SHADES
- Removed duplicate product information to clarify the intended product selection.

DRAWING CHANGES – CONTRACT NO. DGS C-1101-0053 ALL CONTRACTS

DRAWING CHANGES – CONTRACT NO. DGS C-1101-0053 PHASE 1.1

Civil Drawings:

Item 1 – Sheet C-200
Item 2 – Sheet C-201
Item 3 – Sheet C-300
Item 4 – Sheet C-301

Architectural Drawings:

Item 1 - Sheet CS-1
- Note to print Sheet A1.1 in color added.

Item 2 - Sheet AD1.2
- Note regarding existing window trim to remain added at President’s Office 101.
- Note regarding wall placement and existing trim added at Lobby 100.

Item 3 - Sheet A1-01
- Cased opening tags & legend added.
- General notes modified. Scope to be included in both base bid 1 & 2 unless otherwise noted.
- Scope of waterproofing at existing building identified on plan and in legend.
- Existing stair identified for reference.
- Door swing at Mechanical Room 132 changed.
- Section mark for drawing 4/A6.2 added.
- Elevation tag added at Corridor 119.
- Interior windows centered on walls at Corridor 119.

Item 4 – Sheet A1.1 DIM
- Title updated.
- General notes modified. Scope to be included in both base bid 1 & 2 unless otherwise noted.
- Scope of waterproofing symbol identified in legend.

Item 5 – Sheet A1.1 SLAB
- General notes modified. Scope to be included in both base bid 1 & 2 unless otherwise noted.

Item 6 – Sheet A1.2
- Title updated.
- Cased opening tags & legend added.
- General notes modified. Scope to be included in both base bid 1 & 2 unless otherwise noted.
- Scope of waterproofing symbol identified in legend.
- Note added for existing window trim to remain at President’s Office.

Item 7 – Sheet A1.2 DIM
- Title updated.
- General notes modified. Scope to be included in both base bid 1 & 2 unless otherwise noted.
- Scope of waterproofing symbol identified in legend.

Item 8 – Sheet A1.2 SLAB
- General notes modified. Scope to be included in both base bid 1 & 2 unless otherwise noted.

Item 9 – Sheet A1.3
- Title updated.
- General notes modified. Scope to be included in both base bid 1 & 2 unless otherwise noted.
- Scope of waterproofing symbol identified in legend.
- Door omitted at attic space.
- Note added at interstitial space for delegated design of mechanical mezzanine.

Item 10 – Sheet A1.3 DIM
- Title updated.
- General notes modified. Scope to be included in both base bid 1 & 2 unless otherwise noted.
- Scope of waterproofing symbol identified in legend.
- Door omitted at attic space.
• Note added at interstitial space for delegated design of mechanical mezzanine.

Item 11 – Sheet A1.3 SLAB
• General notes modified. Scope to be included in both base bid 1 & 2 unless otherwise noted.

Item 12 – Sheet A1.4
• General notes modified. Scope to be included in both base bid 1 & 2 unless otherwise noted.
• Scope of waterproofing symbol identified in legend.
• Note added regarding scope of work at bay roof.

Item 13 – Sheet A2.1
• Bead board finish note added. To be painted or clear stained depending on base bid selected.
• Fixtures that were previously not called out in the lighting legend have been added.

Item 14 – Sheet A2.2
• Bead board finish note added. To be painted or clear stained depending on base bid selected.
• Fixtures that were previously not called out in the lighting legend have been added.

Item 15 – Sheet AD3.1
• Notes added clarifying the scope of demolition at the skylight drum.
• Note added referencing repair scope for skylight drum.
• Title updated

Item 16 – Sheet A3.1
• Note added clarifying that acroterian to be made to match existing.
• Window modified to be infilled with brick to match. Brick to be recessed 4”.

Item 17 – Sheet A4.1
• Detail bubble added referencing scope of repair and demolition at skylight drum.
• Note added showcasing intent of cased openings.

Item 18 – Sheet A4.2
• Drawing modified showing intent of mechanical mezzanine and indicating that the mezzanine will be delegated design.

Item 19 – Sheets A5.1 – A5.42
• General note #9 modified to provide blocking as required to support AV/IT, Mechanical & electrical equipment.
• General note #10 expanded to all elevations to reference A5.X series for receptacle outlet placement.
• General note #11 added to see A8.4 for trim profiles.
• General note #12 added to clarify scope of wood wall base throughout building.
• Clarification of countertop finishes between base bids.

Item 20 – Sheet A5.2 & A5.3
• Note added to ensure trim mouldings align.
• Dimension references added to clarify layout of trim mouldings.

Item 21 – Sheet A5.5
• Door swing change at Mechanical Room 132.
• Door note moved to be visible.

Item 22 – Sheet A5.13
• Note added to reference door schedule and specs for hardware at door into Mechanical Room 132. Door to have panic hardware.
• Dimension line to receptacle modified.
• Viewport corrected to show full extent of room.
• Wall line added where missing.
Item 21 – Sheet A5.15
- Note added clarifying scope of public restroom accessories. Vendor to select and contractor to install public restroom accessories. Public restroom accessories placed in drawings are for desired placement only.

Item 22 – Sheet A5.17
- Windows modified to be centered on wall at Corridor 119.

Item 23 – Sheet A5.18
- Quartz backsplash note modified to not say full height. Reference dimension for backsplash height.
- Windows looking onto Corridor 119 modified to be centered on wall.
- Cabinet door swing symbols added.

Item 24 – Sheet A5.19
- Corridor 119 elevation tag added.
- Corridor 119 enlarged floor plan and elevations added to sheet for clarity. See drawings 6-11.
- Drawing tags updated for drawings 6 – 15.

Item 25 – Sheet A5.23 – A5.25
- Notes indicating areas of plaster repair at dome interior.
- Note added to clarify existing vs. new trim.
- Correct pendant light fixture added.

Item 26 – Sheet A5.27
- Note added to clarify scope of plaster repair.
- Stair tread modified. See A7.4 for details.

Item 27 – Sheet A5.29
- Note to provide blocking for artwork added.

Item 28 – Sheet A5.30
- Note added clarifying scope of restroom accessories. Contractor to coordinate with architect and client agency regarding procurement, selection, and placement of restroom accessories.

Item 29 – Sheet A5.32
- Note added to provide gap between display and edge of wall/trim at recess.
- Note moved to be visible.

Item 30 – Sheet A5.33
- Elevations #3 & #5 modified to show cased openings at Corridor 207.
- Elevation #4 modified to show opening beyond for clarity.

Item 31 – Sheet A5.37
- Note added to clarify construction of south wall at cabinets.
- Note added to clarify finish of cabinetry.

Item 32 – Sheet A6.1
- Order of notes modified.
- Insulation under concrete note added.

Item 33 – Sheet A6.9
- Note at cornice modified. Metal cornice to miter & return at door.

Item 34 – Sheet A6.15
- Note to add batt insulation at all joist bays.

Item 35 – Sheet A6.17
- Lug sill note isometric drawing added at drawing #14.
• Drip edge added at drawing #11.

Item 36 – Sheet A6.23
  • Note added to clarify treatment and installation of brick at jack and semicircular arches.

Item 37 – Sheet A7.2
  • Note modified to assume 100% replacement of subsurface at south portico.
  • Scale corrected at drawing #4.

Item 38 – Sheet A7.3
  • Stair nosing modified to be ADA compliant.
  • Notes added to ensure alignment between flooring materials.
  • General notes modified to ensure alignment of materials and consistent/equal stair treads.

Item 39 – Sheet A7.4
  • General notes modified to ensure alignment of materials and consistent/equal stair treads.
  • Stair nosing modified to be ADA compliant.

Item 40 – Sheet A7.9
  • Glazing location shifted.
  • Note to indicated insulated glass.
  • Ogee trim added at top and bottom of glazing.

Item 41 – Sheet A9.1A – A9.4
  • General note added to clarify that square footages are for general reference only as a basis of design. Verify all quantities in field.
  • Finish tags modified to remove TZ-2. Only one terrazzo formula used.
  • Finish legend updated to clarify that new concrete will be installed at existing building first floor.
  • Finish legend titles updated for clarity.

**DRAWING CHANGES – CONTRACT NO. DGS C-1101-0053 PHASE 1.2**

Item 1 – Sheet H4-01

Item 2 – Sheet H6-01

Item 3 – Sheet H7-01

**DRAWING CHANGES – CONTRACT NO. DGS C-1101-0053 PHASE 1.3**

**DRAWING CHANGES – CONTRACT NO. DGS C-1101-0053 PHASE 1.4**

Item 1 – Sheet E6-01

Item 2 – Sheet E6-02

Item 3 – Sheet FA7-00
NOTE: INTERSTITIAL SPACE 300 IS A NEW MEZZANINE WHICH PROVIDES FURTHER ACCESS TO THE EXG. ATTIC ABOVE. SEE A4.X SERIES FOR CLARIFICATION.

OPEN TO BELOW

ELEVATED MECHANICAL MEZZANINE
SEE STRUCTURAL & MECHANICAL DRAWINGS FOR LAYOUT OF STRUCTURE & LOCATION OF SYSTEMS

ACCESS TO ATTIC ABOVE
OPEN TO BELOW
CEILING SOFFIT BELOW UP

PROVIDE HANDRAILS AT OPENING AS NECESSARY (DELEGATED DESIGN)

LOWER SLAB
ELEVATED SLAB

NOTE: INTERSTITIAL SPACE 300 IS A NEW MEZZANINE WHICH PROVIDES FURTHER ACCESS TO THE EXG. ATTIC ABOVE. SEE A4.X SERIES FOR CLARIFICATION.

OPEN TO BELOW

ELEVATED MECHANICAL MEZZANINE
SEE STRUCTURAL & MECHANICAL DRAWINGS FOR LAYOUT OF STRUCTURE & LOCATION OF SYSTEMS

ACCESS TO ATTIC ABOVE
OPEN TO BELOW
CEILING SOFFIT BELOW UP

PROVIDE HANDRAILS AT OPENING AS NECESSARY (DELEGATED DESIGN)

LOWER SLAB
ELEVATED SLAB

NOTE: INTERSTITIAL SPACE 300 IS A NEW MEZZANINE WHICH PROVIDES FURTHER ACCESS TO THE EXG. ATTIC ABOVE. SEE A4.X SERIES FOR CLARIFICATION.

OPEN TO BELOW

ELEVATED MECHANICAL MEZZANINE
SEE STRUCTURAL & MECHANICAL DRAWINGS FOR LAYOUT OF STRUCTURE & LOCATION OF SYSTEMS

ACCESS TO ATTIC ABOVE
OPEN TO BELOW
CEILING SOFFIT BELOW UP

PROVIDE HANDRAILS AT OPENING AS NECESSARY (DELEGATED DESIGN)

LOWER SLAB
ELEVATED SLAB
A.3.1

VARIANCE FROM CONTRACT

CONTRACTOR SHALL FIELD VERIFY BUILDING ELEVATIONS

LOWER OXFORD TOWNSHIP, CHESTER COUNTY, PA

SCALE: 3/16"=1'-0"

4

REQUIRED U.N.O.

NEW ADDITION, REMOVAL OF PAINT & REPOINTING OF EXISTING WALLS TO REMAIN.

GRANITE VENEER AT FOUNDATION.

AREA AT NEW LINK NOT WITHIN RESTORATION SCOPE.

GRANITE CAP ON EXG.

LIMESTONE ENTABLATURE, TRANSOM & SIDELITES TO MATCH EXG.

INSTALL NEW LIMESTONE SPANDREL TO MATCH SOUTH FACADE.

INSTALL NEW WINDOWS, TYP. SOUTH ELEVATION.

ACROTERIONS TO MATCH EXG. TYP. FULL REPLACEMENT AT THIS GABLE END.

METALLIC PAINT & PRIMER. CORNER ACROTERIONS. REPAINT USING THIS GABLE END. INSTALL QTY (2) NEW RECESS BRICK 4".

·

REVISIONS

MASONRY IS REQUIRED. ALLOWANCE. VERIFY IN FIELD IF ADDITIONAL BRICK

NOTE: SQUARE FOOTAGES OF BRICK MASONRY REPAIR ONLY

# SCOPE.

PHOTO SEE SHEET INDICATED FOR ADDITIONAL INDICATES LOCATION OF ENLARGED PLAN OR

MIN. OF 15 SF.

1

SOUTH ELEVATION

OUT CRACKS & PIN WHERE APPLICABLE. ASSUME QTY. (2).

INSTALL NEW STONE UNITS IN-KIND WHERE SIGNIFICANTLY DETERIORATED. ASSUME QTY. (2). INSTALL NEW BEAD BOARD PLINTHS WITH NEW STONE TO MATCH EXG.

REPLACE BOTTOM STEP & CHEEK WALL CRACKS IN SANDSTONE.

PROVIDE ALTERNATE LAMINATED OR WOOD HANDRAILS.

REPLACE BRICK TO MATCH EXG. IN PROFILE, PATTERN & COLOR

BRICK IS REQUIRED DUE TO DETERIORATION, DAMAGED STONE MASONRY UNITS IN KIND WHERE

SELECTIVELY REPAIR OR REPLACE DETERIORATED OR DAMAGED STONE MASONRY UNITS IN KIND WHERE

OF EXG. BUILDING.

OF EXG. IN PROFILE, PATTERN & COLOR

AND BELT COURSE.

AND BELT COURSE.

CLEAN & REFINISH EXG. BRONZE PLAQUES QTY. (2).

CLEAN LIMESTONE FRIEZE & ALKALINE-BASED CHEMICAL CLEANING AGENT. REPOINT CRACKS IN SANDSTONE.

LIMESTONE BAND TO MATCH EXG.

REPLACE BRICK TO MATCH EXG.

REPLACE BRICK TO MATCH EXG.

REPAIR AREAS OF LOSS & CORROSION.

INSTALL NEW SEALANT BETWEEN DISSIMILAR MATERIALS SUCH AS BETWEEN MASONRY, WINDOWS OR DOORS.

INSTALL (2) NEW LOUVERS TO MECH.

INSTALL NEW DOME,

BB#1: REFINISH COPPER

WITH METALLIC PRIMER & PAINT.

REPLACE DAMAGED BRICK WITH NEW TO MATCH EXG.

INSTALL NEW BIRD RESTORATION SCOPE.

INSTALL NEW DOOR, REPLACING & PAINT. SEE A7.1 FOR ADDITIONAL DOME RESTORATION SCOPE.

INSTALL NEWLY

RESTORATION SCOPE.

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RESTORATIONSCOPE.
1. See base bids for scope of work.
2. Provide shop drawings for all millwork.
3. Do not install receptacle outlets back to back. STC ratings must be maintained between spaces.
4. Doors & sidelites must maintain the same STC rating as the partition they are penetrating.
5. New partitions between offices, including corridor walls to be floor to underside of slab and have min STC rating of 45.
6. New partitions between offices and toilet rooms, including corridor walls to be floor to underside of slab and have min STC rating of 50.
7. See Sheet A8.3 for partition types.
8. See A-9 series for finish plans.
9. See AV/IT, Mech., & Electrical dwgs for placement of equipment. Provide blocking as required to support equipment.
11. See Sheet A8.4 for trim profiles.
12. New WD base trim throughout building U.N.O.

Contractor shall field verify all dimensions. Variance from contract documents not permitted without professional & bureau of construction approval.

Commonwealth of Pennsylvania
Department of General Services
Harrisburg, Pennsylvania

Voith & Mactavish Architects LLP
2401 Walnut Street, 6th Floor
Philadelphia, PA 19103
Phone 215-545-4544 Fax 215-545-3299
www.voithandmactavish.com

Vail Hall Renovations
Lincoln University
Lower Oxford Township, Chester County, PA

DGS C-1101-0053 Phase 801

08/23/21

08/23/21 - 100% CD Submission
03/02/22 - Addendum #2
CORRIDOR 102 - WEST ELEVATION

LINCOLN UNIVERSITY
VAIL HALL RENOVATIONS

DOOR NOTE MODIFIED.

DOOR SWING CHANGE.

GENERAL NOTES MODIFIED.

OUTLET PLACEMENT.

ROOM NAME
BRAILLE
000

NEW WD BASE TRIM THROUGHOUT BUILDING U.N.O.

SEE SHEET A8.4 FOR TRIM PROFILES.

SEE SHEET A8.3 FOR PARTITION TYPES.

SEE A-9 SERIES FOR FINISH PLANS.

SEE AV/IT, MECH., & ELECTRICAL DWGS FOR PLACEMENT OF EQUIPMENT. PROVIDE BLOCKING AS REQUIRED TO SUPPORT EQUIPMENT.

NEW PARTITIONS BETWEEN OFFICES AND TOILET SPACES.

NEW PARTITIONS BETWEEN OFFICES, INCLUDING CORRIDOR WALLS TO BE FLOOR TO UNDERSIDE OF SLAB AND HAVE MIN STC RATING OF 45 U.NO. OF 50.

DOORS & SIDELITES MUST MAINTAIN THE SAME STC RATING AS THE PARTITION THEY ARE PENETRATING.

BACK. STC RATINGS MUST BE MAINTAINED BETWEEN ROOMS, INCLUDING CORRIDOR WALLS TO BE FLOOR TO UNDERSIDE OF SLAB AND HAVE MIN STC RATING.

PROVIDE SHOP DRAWINGS FOR ALL MILLWORK.

SEE BASE BID.

SEE BASE BIDS FOR SCOPE OF WORK.

1. PROVIDE SHOP DRAWINGS FOR ALL MILLWORK.
2. DO NOT INSTALL RECEPTACLE OUTLETS BACK TO BACK.
3. DO NOT INSTALL RECEPTACLE OUTLETS BACK TO BACK.
4. PROVIDE BLOCKING AS REQUIRED TO SUPPORT EQUIPMENT.
5. DOORS & SIDELITES MUST MAINTAIN THE SAME STC RATING AS THE PARTITION THEY ARE PENETRATING.
6. BACK. STC RATINGS MUST BE MAINTAINED BETWEEN ROOMS, INCLUDING CORRIDOR WALLS TO BE FLOOR TO UNDERSIDE OF SLAB AND HAVE MIN STC RATING.
7. PROVIDE SHOP DRAWINGS FOR ALL MILLWORK.

9. PROVIDE SHOP DRAWINGS FOR ALL MILLWORK.
10. DO NOT INSTALL RECEPTACLE OUTLETS BACK TO BACK.
11. DO NOT INSTALL RECEPTACLE OUTLETS BACK TO BACK.
12. PROVIDE BLOCKING AS REQUIRED TO SUPPORT EQUIPMENT.
13. DOORS & SIDELITES MUST MAINTAIN THE SAME STC RATING AS THE PARTITION THEY ARE PENETRATING.
14. BACK. STC RATINGS MUST BE MAINTAINED BETWEEN ROOMS, INCLUDING CORRIDOR WALLS TO BE FLOOR TO UNDERSIDE OF SLAB AND HAVE MIN STC RATING.
15. PROVIDE SHOP DRAWINGS FOR ALL MILLWORK.

9. PROVIDE SHOP DRAWINGS FOR ALL MILLWORK.
10. DO NOT INSTALL RECEPTACLE OUTLETS BACK TO BACK.
11. DO NOT INSTALL RECEPTACLE OUTLETS BACK TO BACK.
12. PROVIDE BLOCKING AS REQUIRED TO SUPPORT EQUIPMENT.
13. DOORS & SIDELITES MUST MAINTAIN THE SAME STC RATING AS THE PARTITION THEY ARE PENETRATING.
14. BACK. STC RATINGS MUST BE MAINTAINED BETWEEN ROOMS, INCLUDING CORRIDOR WALLS TO BE FLOOR TO UNDERSIDE OF SLAB AND HAVE MIN STC RATING.
15. PROVIDE SHOP DRAWINGS FOR ALL MILLWORK.
1. See Base Bids for Scope of Work.
2. Provide Shop Drawings for All Millwork.
3. Do Not Install Receptacle Outlets Back to Back. STC Ratings Must Be Maintained Between Spaces.
4. Doors & Sidelites Must Maintain the Same STC Rating as the Partition They Are Penetrating.
5. New Partitions Between Offices, Including Corridor Walls to Be Floor to Underside of Slab and Have Min STC Rating of 45.
6. New Partitions Between Offices and Toilet Rooms, Including Corridor Walls to Be Floor to Underside of Slab and Have Min STC Rating of 50.
7. See Sheet A8.3 for Partition Types.
8. See A-9 Series for Finish Plans.
9. See AV/IT, Mech., & Electrical Dwgs for Placement of Equipment. Provide Blocking as Required to Support Equipment.
11. See Sheet A8.4 for Trim Profiles.
12. New WD Base Trim Throughout Building U.N.O.

GENERAL NOTES

1. SEE BASE BIDS FOR SCOPE OF WORK.
2. PROVIDE SHOP DRAWINGS FOR ALL MILLWORK.
3. DO NOT INSTALL RECEPTACLE OUTLETS BACK TO BACK. STC RATINGS MUST BE MAINTAINED BETWEEN SPACES.
4. DOORS & SIDELITES MUST MAINTAIN THE SAME STC RATING AS THE PARTITION THEY ARE PENETRATING.
5. NEW PARTITIONS BETWEEN OFFICES, INCLUDING CORRIDOR WALLS TO BE FLOOR TO UNDERSIDE OF SLAB AND HAVE MIN STC RATING OF 45.
6. NEW PARTITIONS BETWEEN OFFICES AND TOILET ROOMS, INCLUDING CORRIDOR WALLS TO BE FLOOR TO UNDERSIDE OF SLAB AND HAVE MIN STC RATING OF 50.
7. SEE SHEET A8.3 FOR PARTITION TYPES.
8. SEE A-9 SERIES FOR FINISH PLANS.
9. SEE AV/IT, MECH., & ELECTRICAL DWGS FOR PLACEMENT OF EQUIPMENT. PROVIDE BLOCKING AS REQUIRED TO SUPPORT EQUIPMENT.
10. REFERENCE A5.X DRAWING SERIES FOR RECEPTACLE OUTLET PLACEMENT.
11. SEE SHEET A8.4 FOR TRIM PROFILES.
12. NEW WD BASE TRIM THROUGHOUT BUILDING U.N.O.

CONTRACTOR SHALL FIELD VERIFY ALL DIMENSIONS.
VARIANCE FROM CONTRACT DOCUMENTS NOT PERMITTED WITHOUT PROFESSIONAL & BUREAU OF CONSTRUCTION APPROVAL.
GENERAL NOTES

1. SEE BASE BIDS FOR SCOPE OF WORK.
2. PROVIDE SHOP DRAWINGS FOR ALL MILLWORK.
3. DO NOT INSTALL RECEPTACLE OUTLETS BACK TO BACK. STC RATINGS MUST BE MAINTAINED BETWEEN SPACES.
4. DOORS & SIDELITES MUST MAINTAIN THE SAME STC RATING AS THE PARTITION THEY ARE PENETRATING.
5. NEW PARTITIONS BETWEEN OFFICES, INCLUDING CORRIDOR WALLS TO BE FLOOR TO UNDERSIDE OF SLAB AND HAVE MIN STC RATING OF 45.
6. NEW PARTITIONS BETWEEN OFFICES AND TOILET ROOMS, INCLUDING CORRIDOR WALLS TO BE FLOOR TO UNDERSIDE OF SLAB AND HAVE MIN STC RATING OF 50.
7. SEE SHEET A8.3 FOR PARTITION TYPES.
8. SEE A-9 SERIES FOR FINISH PLANS.
9. SEE AV/IT, MECH., & ELECTRICAL DWGS FOR PLACEMENT OF EQUIPMENT. PROVIDE BLOCKING AS REQUIRED TO SUPPORT EQUIPMENT.
10. REFERENCE A5.X DRAWING SERIES FOR RECEPTACLE OUTLET PLACEMENT.
11. SEE SHEET A8.4 FOR TRIM PROFILES.
12. NEW WD BASE TRIM THROUGHOUT BUILDING U.N.O.

CONTRACTOR SHALL FIELD VERIFY ALL DIMENSIONS.

VARIANCE FROM CONTRACT DOCUMENTS NOT PERMITTED WITHOUT PROFESSIONAL & BUREAU OF CONSTRUCTION APPROVAL.
GENERAL NOTES

1. SEE BASE BIDS FOR SCOPE OF WORK.
2. PROVIDE SHOP DRAWINGS FOR ALL MILLWORK.
3. DO NOT INSTALL RECEPTACLE OUTLETS BACK TO BACK. STC RATINGS MUST BE MAINTAINED BETWEEN SPACES.
4. DOORS & SIDELITES MUST MAINTAIN THE SAME STC RATING AS THE PARTITION THEY ARE PENETRATING.
5. NEW PARTITIONS BETWEEN OFFICES, INCLUDING CORRIDOR WALLS TO BE FLOOR TO UNDERSIDE OF SLAB AND HAVE MIN STC RATING OF 45.
6. NEW PARTITIONS BETWEEN OFFICES AND TOILET ROOMS, INCLUDING CORRIDOR WALLS TO BE FLOOR TO UNDERSIDE OF SLAB AND HAVE MIN STC RATING OF 50.
7. SEE SHEET A8.3 FOR PARTITION TYPES.
8. SEE A-9 SERIES FOR FINISH PLANS.
9. SEE AV/IT, MECH., & ELECTRICAL DWGS FOR PLACEMENT OF EQUIPMENT. PROVIDE BLOCKING AS REQUIRED TO SUPPORT EQUIPMENT.
10. REFERENCE A5.X DRAWING SERIES FOR RECEPTACLE OUTLET PLACEMENT.
11. SEE SHEET A8.4 FOR TRIM PROFILES.
12. NEW WD BASE TRIM THROUGHOUT BUILDING U.N.O.

CONTRACTOR SHALL FIELD VERIFY ALL DIMENSIONS.

VARIANCE FROM CONTRACT DOCUMENTS NOT PERMITTED WITHOUT PROFESSIONAL & BUREAU OF CONSTRUCTION APPROVAL.

COMMONWEALTH OF PENNSYLVANIA
DEPARTMENT OF GENERAL SERVICES
HARRISBURG, PENNSYLVANIA

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VAIL HALL RENOVATIONS
Lincoln University
Lower Oxford Township, Chester County, PA

DGS C-1101-0053 PHASE 001

08/23/21 - 100% CD SUBMISSION
03/02/22 - ADDENDUM #2
GENERAL NOTES

1. SEE BASE BIDS FOR SCOPE OF WORK.

2. PROVIDE SHOP DRAWINGS FOR ALL MILLWORK.

3. DO NOT INSTALL RECEPTACLE OUTLETS BACK TO BACK. STC RATINGS MUST BE MAINTAINED BETWEEN SPACES.

4. DOORS & SIDELITES MUST MAINTAIN THE SAME STC RATING AS THE PARTITION THEY ARE PENETRATING.

5. NEW PARTITIONS BETWEEN OFFICES, INCLUDING CORRIDOR WALLS TO BE FLOOR TO UNDERSIDE OF SLAB AND HAVE MIN STC RATING OF 45.

6. NEW PARTITIONS BETWEEN OFFICES AND TOILET ROOMS, INCLUDING CORRIDOR WALLS TO BE FLOOR TO UNDERSIDE OF SLAB AND HAVE MIN STC RATING OF 50.

7. SEE SHEET A8.3 FOR PARTITION TYPES.

8. SEE A-9 SERIES FOR FINISH PLANS.

9. SEE AV/IT, MECH., & ELECTRICAL DWS FOR PLACEMENT OF EQUIPMENT. PROVIDE BLOCKING AS REQUIRED TO SUPPORT EQUIPMENT.

10. REFERENCE A5.X DRAWING SERIES FOR RECEPTACLE OUTLET PLACEMENT.

11. SEE SHEET A8.4 FOR TRIM PROFILES.

12. NEW WD BASE TRIM THROUGHOUT BUILDING UNO.

CONTRACTOR SHALL FIELD VERIFY ALL DIMENSIONS.

VARIANCE FROM CONTRACT DOCUMENTS NOT PERMITTED WITHOUT PROFESSIONAL & BUREAU OF CONSTRUCTION APPROVAL.
1. See base bids for scope of work.
2. Provide shop drawings for all millwork.
3. Do not install receptacle outlets back to back. Stc ratings must be maintained between spaces.
4. Doors & sidelites must maintain the same Stc rating as the partition they are penetrating.
5. New partitions between offices, including corridor walls to be floor to underside of slab and have min Stc rating of 45.
6. New partitions between offices and toilet rooms, including corridor walls to be floor to underside of slab and have min Stc rating of 50.
7. See sheet A8.3 for partition types.
8. See A-9 series for finish plans.
9. See AV/IT, mech., & electrical dwgs for placement of equipment. Provide blocking as required to support equipment.
11. See sheet A8.4 for trim profiles.
12. New WD base trim throughout building U.N.O.

Contractor shall field verify all dimensions. Variance from contract documents not permitted without professional & Bureau of Construction approval.

08/23/21 - 100% CD Submission
03/02/22 - Addendum #2
PTD OR CLR STAINED WD WNDW TRIM. SEE BASE BID. TYP.

PTD OR CLR STAINED WD BASE. SEE BASE BID. TYP.

SLATE WNDW SILL TYP.

8'-0" TYP.

9'-6"

CLR STAINED WD DOOR WITH EITHER PTD OR CLR STAINED TRIM. SEE BASE BID.

1.
SEE BASE BIDS FOR SCOPE OF WORK.

2.
PROVIDE SHOP DRAWINGS FOR ALL MILLWORK.

3.
DO NOT INSTALL RECEPTACLE OUTLETS BACK TO BACK. STC RATINGS MUST BE MAINTAINED BETWEEN SPACES.

4.
DOORS & SIDELITES MUST MAINTAIN THE SAME STC RATING AS THE PARTITION THEY ARE PENETRATING.

5.
NEW PARTITIONS BETWEEN OFFICES, INCLUDING CORRIDOR WALLS TO BE FLOOR TO UNDERSIDE OF SLAB AND HAVE MIN STC RATING OF 45 U.NO.

6.
NEW PARTITIONS BETWEEN OFFICES AND TOILET ROOMS, INCLUDING CORRIDOR WALLS TO BE FLOOR TO UNDERSIDE OF SLAB AND HAVE MIN STC RATING OF 50.

7.
SEE SHEET A8.3 FOR PARTITION TYPES.

8.
SEE A-9 SERIES FOR FINISH PLANS.

9.
SEE AV/IT, MECH., & ELECTRICAL DWGS FOR PLACEMENT OF EQUIPMENT. PROVIDE BLOCKING AS REQUIRED TO SUPPORT EQUIPMENT.

10.
REFERENCE A5.X DRAWING SERIES FOR RECEPTACLE OUTLET PLACEMENT.

11.
SEE SHEET A8.4 FOR TRIM PROFILES.

12.
NEW WD BASE TRIM THROUGHOUT BUILDING U.N.O.

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VARIANCE FROM CONTRACT DOCUMENTS NOT PERMITTED WITHOUT PROFESSIONAL & BUREAU OF CONSTRUCTION APPROVAL.
MECHANICAL 132 - NORTH ELEVATION
SCALE: 1/2"=1'-0"

MECHANICAL 132 - EAST ELEVATION
SCALE: 1/2"=1'-0"

MECHANICAL 132 - SOUTH ELEVATION
SCALE: 1/2"=1'-0"

MECHANICAL 132 - WEST ELEVATION
SCALE: 1/2"=1'-0"

GRANTS ACCOUNTING 115 - ENLARGED FLOOR PLAN
SCALE: 1/2"=1'-0"

GRANTS ACCOUNTING 115 - NORTH ELEVATION
SCALE: 1/2"=1'-0"

GRANTS ACCOUNTING 115 - EAST ELEVATION
SCALE: 1/2"=1'-0"

GRANTS ACCOUNTING 115 - SOUTH ELEVATION
SCALE: 1/2"=1'-0"

GRANTS ACCOUNTING 115 - WEST ELEVATION
SCALE: 1/2"=1'-0"

GENERAL NOTES
1. SEE BASE BIDS FOR SCOPE OF WORK.
2. PROVIDE SHOP DRAWINGS FOR ALL MILLWORK.
3. DO NOT INSTALL RECEPTACLE OUTLETS BACK TO BACK. STC RATINGS MUST BE MAINTAINED BETWEEN SPACES.
4. DOORS & SIDELITES MUST MAINTAIN THE SAME STC RATING AS THE PARTITION THEY ARE PENETRATING.
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7. SEE SHEET A8.3 FOR PARTITION TYPES.
8. SEE A-9 SERIES FOR FINISH PLANS.
9. SEE AV/IT, MECH., & ELECTRICAL DWGS FOR PLACEMENT OF EQUIPMENT. PROVIDE BLOCKING AS REQUIRED TO SUPPORT EQUIPMENT.
10. REFERENCE A5.X DRAWING SERIES FOR RECEPTACLE OUTLET PLACEMENT.
11. SEE SHEET A8.4 FOR TRIM PROFILES.
12. NEW WD BASE TRIM THROUGHOUT BUILDING.

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03/02/22 - ADDENDUM #2

COMMONWEALTH OF PENNSYLVANIA
DEPARTMENT OF GENERAL SERVICES
HARRISBURG, PENNSYLVANIA
GENERAL NOTES

1. SEE BASE BIDS FOR SCOPE OF WORK.
2. PROVIDE SHOP DRAWINGS FOR ALL MILLWORK.
3. DO NOT INSTALL RECEPTACLE OUTLETS BACK TO BACK. STC RATINGS MUST BE MAINTAINED BETWEEN SPACES.
4. DOORS & SIDELITES MUST MAINTAIN THE SAME STC RATING AS THE PARTITION THEY ARE PENETRATING.
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6. NEW PARTITIONS BETWEEN OFFICES AND TOILET ROOMS, INCLUDING CORRIDOR WALLS TO BE FLOOR TO UNDERSIDE OF SLAB AND HAVE MIN STC RATING OF 50.
7. SEE SHEET A8.3 FOR PARTITION TYPES.
8. SEE A-9 SERIES FOR FINISH PLANS.
9. SEE AV/IT, MECH., & ELECTRICAL DWGS FOR PLACEMENT OF EQUIPMENT. PROVIDE BLOCKING AS REQUIRED TO SUPPORT EQUIPMENT.
10. REFERENCE A5.X DRAWING SERIES FOR RECEPTACLE OUTLET PLACEMENT.
11. SEE SHEET A8.4 FOR TRIM PROFILES.
12. NEW WD BASE TRIM THROUGHOUT BUILDING U.N.O.

CONTRACTOR SHALL FIELD VERIFY ALL DIMENSIONS.

VARIANCE FROM CONTRACT DOCUMENTS NOT PERMITTED WITHOUT PROFESSIONAL & BUREAU OF CONSTRUCTION APPROVAL.
1. See Base Bids for scope of work.
2. Provide shop drawings for all millwork.
3. Do not install receptacle outlets back to back. STC ratings must be maintained between spaces.
4. Doors & sidelites must maintain the same STC rating as the partition they are penetrating.
5. New partitions between offices, including corridor walls to be floor to underside of slab and have min STC rating of 45 U.N.O.
6. New partitions between offices and toilet rooms, including corridor walls to be floor to underside of slab and have min STC rating of 50.
7. See Sheet A8.3 for partition types.
8. See A-9 Series for finish plans.
9. See AV/IT, MECH., & ELECTRICAL DWGS for placement of equipment. Provide blocking as required to support equipment.
11. See Sheet A8.4 for trim profiles.
12. New WD base trim throughout building U.N.O.

Contractor shall field verify all dimensions. Variance from contract documents not permitted without professional & Bureau of Construction approval.
GENERAL NOTES

1. SEE BASE BIDS FOR SCOPE OF WORK.

2. PROVIDE SHOP DRAWINGS FOR ALL MILLWORK.

3. DO NOT INSTALL RECEPTACLE OUTLETS BACK TO BACK. STC RATINGS MUST BE MAINTAINED BETWEEN SPACES.

4. DOORS & SIDELITES MUST MAINTAIN THE SAME STC RATING AS THE PARTITION THEY ARE PENETRATING.

5. NEW PARTITIONS BETWEEN OFFICES, INCLUDING CORRIDOR WALLS TO BE FLOOR TO UNDERSIDE OF SLAB AND HAVE MIN STC RATING OF 45. NO.

6. NEW PARTITIONS BETWEEN OFFICES AND TOILET ROOMS, INCLUDING CORRIDOR WALLS TO BE FLOOR TO UNDERSIDE OF SLAB AND HAVE MIN STC RATING OF 50.

7. SEE SHEET A8.3 FOR PARTITION TYPES.

8. SEE A-9 SERIES FOR FINISH PLANS.

9. SEE AV/IT, MECH., & ELECTRICAL DWGS FOR PLACEMENT OF EQUIPMENT. PROVIDE BLOCKING AS REQUIRED TO SUPPORT EQUIPMENT.

10. REFERENCE A5.X DRAWING SERIES FOR RECEPTACLE OUTLET PLACEMENT.

11. SEE SHEET A8.4 FOR TRIM PROFILES.

12. NEW WD BASE TRIM THROUGHOUT BUILDING U.N.O.

CONTRACTOR SHALL FIELD VERIFY ALL DIMENSIONS.

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HARRISBURG, PENNSYLVANIA

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03/02/22 - ADDENDUM #2

INTERIOR ELEVATIONS

A5.17
1. See Base Bids for Scope of Work.
2. Provide Shop Drawings for all Millwork.
3. Do not install receptacle outlets back to back. STC ratings must be maintained between spaces.
4. Doors & Sidelites must maintain the same STC rating as the partition they are penetrating.
5. New partitions between offices, including corridor walls to be floor to underside of slab and have min STC rating of 45 U.N.O.
6. New partitions between offices and toilet rooms, including corridor walls to be floor to underside of slab and have min STC rating of 50.
7. See Sheet A8.3 for partition types.
8. See A-9 Series for finish plans.
9. See AV/IT, Mech., & Electrical DWGs for placement of equipment. Provide blocking as required to support equipment.
11. See Sheet A8.4 for trim profiles.
12. New WD base trim throughout building U.N.O.

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CAPITAL PROJECTS MANAGER

123

225 SF

CORRIDOR

A5.21

7

8

9

10

A5.20

2

3

4

5

A5.21

2

3

4

5

PTD OR CLR STAINED WD WNDW TRIM. SEE BASE BID. TYP.

SLATE WNDW SILL W/ FINISHED WOOD TRIM. TYP.

RECESSED GWB CEILING AT WINDOW POCKET

CLR STAINED WD DOOR WITH EITHER PTD OR CLR STAINED TRIM TYP. SEE BASE BID.

OPEN TO BEYOND CLR STAINED WD DOOR WITH EITHER PTD OR CLR STAINED TRIM TYP. SEE BASE BID.

BRAILLE LINCOLN UNIVERSITY ROOM NAME

GENERAL NOTES

1. SEE BASE BIDS FOR SCOPE OF WORK.

2. PROVIDE SHOP DRAWINGS FOR ALL MILLWORK.

3. DO NOT INSTALL RECEPTACLE OUTLETS BACK TO BACK. STC RATINGS MUST BE MAINTAINED BETWEEN SPACES.

4. DOORS & SIDELITES MUST MAINTAIN THE SAME STC RATING AS THE PARTITION THEY ARE PENETRATING.

5. NEW PARTITIONS BETWEEN OFFICES, INCLUDING CORRIDOR WALLS TO BE FLOOR TO UNDERSIDE OF SLAB AND HAVE MIN STC RATING OF 45 U.NO.

6. NEW PARTITIONS BETWEEN OFFICES AND TOILET ROOMS, INCLUDING CORRIDOR WALLS TO BE FLOOR TO UNDERSIDE OF SLAB AND HAVE MIN STC RATING OF 50.

7. SEE SHEET A8.3 FOR PARTITION TYPES.

8. SEE A-9 SERIES FOR FINISH PLANS.

9. SEE AV/IT, MECH., & ELECTRICAL DWGS FOR PLACEMENT OF EQUIPMENT. PROVIDE BLOCKING AS REQUIRED TO SUPPORT EQUIPMENT.

10. REFERENCE A5.X DRAWING SERIES FOR RECEPTACLE OUTLET PLACEMENT.

11. SEE SHEET A8.4 FOR TRIM PROFILES.

12. NEW WD BASE TRIM THROUGHOUT BUILDING U.N.O.

CONTRACTOR SHALL FIELD VERIFY ALL DIMENSIONS.

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GENERAL NOTES

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7. SEE SHEET A8.3 FOR PARTITION TYPES.
8. SEE A-9 SERIES FOR FINISH PLANS.
9. SEE AV/IT, MECH., & ELECTRICAL DWGS FOR PLACEMENT OF EQUIPMENT. PROVIDE BLOCKING AS REQUIRED TO SUPPORT EQUIPMENT.
10. REFERENCE A5.X DRAWING SERIES FOR RECEPTACLE OUTLET PLACEMENT.
11. SEE SHEET A8.4 FOR TRIM PROFILES.
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MOTHER 118

50 SF

A5.6

1. SEE BASE BID. TYP. EQ.

2. PTD OR CLR STAINED WD BASE. SEE BASE BID. TYP.

3. 9'-6" TYP.

4. CLR STAINED WD DOOR WITH EITHER PTD OR CLR STAINED TRIM. SEE BASE BID.

PTD OR CLR STAINED WD BASE CABINETS TYP.

3'-4" TYP.

6" TYP.

1'-0"

FINANCIAL ASSISTANT 103

100 SF

A5.6

7. SEE BASE BID. TYP. EQ.

8. PTD WD BASE CABINETS TYP.

9. UNDER-COUNTER REFRIGERATOR

COUNTERTOP W/4" BACKSPLASH

BB#1 SOLID SURFACE

BB#2 QUARTZ

2'-9'

1'-11"

2'-6"
COPY & STORAGE 113 - NORTH ELEVATION
SCALE: 1/2"=1'-0"

COPY & STORAGE 113 - ENLARGED FLOOR PLAN
SCALE: 1/2"=1'-0"

STORAGE 113A - EAST ELEVATION
SCALE: 1/2"=1'-0"

STORAGE 113A - SOUTH ELEVATION
SCALE: 1/2"=1'-0"

STORAGE 113A - WEST ELEVATION
SCALE: 1/2"=1'-0"

STORAGE 113A - NORTH ELEVATION
SCALE: 1/2"=1'-0"

STORAGE 113A - ENLARGED FLOOR PLAN
SCALE: 1/2"=1'-0"

GENERAL NOTES
1. SEE BASE BIDS FOR SCOPE OF WORK.
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7. SEE SHEET A8.3 FOR PARTITION TYPES.
8. SEE A-9 SERIES FOR FINISH PLANS.
9. SEE AV/IT, MECH., & ELECTRICAL DWGS FOR PLACEMENT OF EQUIPMENT. PROVIDE BLOCKING AS REQUIRED TO SUPPORT EQUIPMENT.
10. REFERENCE A5.X DRAWING SERIES FOR RECEPTACLE OUTLET PLACEMENT.
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08/23/21 - 100% CD SUBMISSION
03/02/22 - ADDENDUM #2
PTD OR CLR STAINED WD BASE. SEE BASE BID. TYP.

KITCHEN 121

ACCOUNTS PAYABLE 120

ACCOUNTS PAYABLE 120 - NORTH ELEVATION

ACCOUNTS PAYABLE 120 - SOUTH ELEVATION

ACCOUNTS PAYABLE 120 - EAST ELEVATION

ACCOUNTS PAYABLE 120 - WEST ELEVATION

KITCHEN 121 - NORTH ELEVATION

KITCHEN 121 - SOUTH ELEVATION

KITCHEN 121 - EAST ELEVATION

KITCHEN 121 - WEST ELEVATION

KITCHEN 121 - ENLARGED FLOOR PLAN

INTERIOR ELEVATIONS

1. SEE BASE BIDS FOR SCOPE OF WORK.
2. PROVIDE SHOP DRAWINGS FOR ALL MILLWORK.
3. DO NOT INSTALL RECEPTACLE OUTLETS BACK TO BACK. STC RATINGS MUST BE MAINTAINED BETWEEN SPACES.
4. DOORS & SIDELITES MUST MAINTAIN THE SAME STC RATING AS THE PARTITION THEY ARE PENETRATING.
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8. SEE A-9 SERIES FOR FINISH PLANS.
9. SEE AV/IT, MECH., & ELECTRICAL DWGS FOR PLACEMENT OF EQUIPMENT. PROVIDE BLOCKING AS REQUIRED TO SUPPORT EQUIPMENT.
10. REFERENCE A5.X DRAWING SERIES FOR RECEPTACLE OUTLET PLACEMENT.
11. SEE SHEET A8.4 FOR TRIM PROFILES.
12. NEW WD BASE TRIM THROUGHOUT BUILDING U.N.O.

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PTD OR CLR STAINED WD PANELING. SEE BASE BID. TYP. RECONSTRUCT TRIM & PLASTER WORK @ NORTH ELEVATION TO MATCH EXG. @ EAST, WEST & SOUTH WALLS. VERIFY TRIM PROFILES IN FIELD.

INSTALL DECORATIVE BRONZE AIR GRILLE. COORDINATE WITH .2 CONTRACTOR.

CLR STAINED WD DOOR WITH EITHER PTD OR CLR STAINED TRIM TYP. SEE BASE BID.

REPAIR PLASTER DAMAGE AT INTERIOR OF SKYLIGHT DOME. ASSUME MIN. 10%. PRIME & PAINT. COLOR TBD.

INSTALL NEW PEDIMENT & DOORWAY TO MATCH OPENING ON OPPOSITE ELEVATION. MATCH TRIM PROFILES EXACTLY. V.I.F. PTD OR CLR STAINED WD HEADER & PEDIMENT. SEE BASE BID.

INSTALL NEW FLOOR GRILLES. COORDINATE WITH .2 CONTRACTOR.

CLR STAINED WD DOOR WITH EITHER PTD OR CLR STAINED TRIM TYP. SEE BASE BID.

EXG. TRIM TO REMAIN
LOBBY 200 - ENLARGED PLAN
SCALE: 1/2"=1'-0"

A5.24

LOBBY 200 - SOUTH ELEVATION
SCALE: 1/2"=1'-0"

A5.24

LOBBY - WEST ELEVATION
SCALE: 1/2"=1'-0"

A5.24

INTERIOR ELEVATIONS

A5.24

09/24/21 - CD RESUBMISSION

· GENERAL NOTES MODIFIED.
· NOTES CLARIFYING SCOPE FOR TRIM & PLASTER WORK.
· EXG. TRIM NOTE ADDED FOR CLARIFICATION.

REVISIONS

2

VAIL HALL RENOVATIONS

COMMONWEALTH OF PENNSYLVANIA
DEPARTMENT OF GENERAL SERVICES
HARRISBURG, PENNSYLVANIA

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08/23/21

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03/02/22 - ADDENDUM #2

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VAIL HALL RENOVATIONS
Lincoln University
Lower Oxford Township, Chester County, PA
DGS C-1101-0053 PHASE 001

A5.24
INTERIOR ELEVATIONS

CONDITIONS

1. PRIVATE RESTROOM 201A - ENLARGED FLOOR PLAN
   SCALE: 1/2"=1'-0"

2. WARDROBE 201B - ENLARGED FLOOR PLAN
   SCALE: 1/2"=1'-0"

3. PRIVATE RESTROOM 201A - NORTH ELEVATION
   SCALE: 1/2"=1'-0"

4. PRIVATE RESTROOM 201A - EAST ELEVATION
   SCALE: 1/2"=1'-0"

5. PRIVATE RESTROOM 201A - SOUTH ELEVATION
   SCALE: 1/2"=1'-0"

6. PRIVATE RESTROOM 201A - WEST ELEVATION
   SCALE: 1/2"=1'-0"

7. WARDROBE 201B - NORTH ELEVATION
   SCALE: 1/2"=1'-0"

8. WARDROBE 201B - EAST ELEVATION
   SCALE: 1/2"=1'-0"

9. WARDROBE 201B - SOUTH ELEVATION
   SCALE: 1/2"=1'-0"

10. WARDROBE 201B - WEST ELEVATION
    SCALE: 1/2"=1'-0"

GENERAL NOTES

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2. PROVIDE SHOP DRAWINGS FOR ALL MILLWORK.
3. DO NOT INSTALL RECEPTACLE OUTLETS BACK TO BACK. STC RATINGS MUST BE MAINTAINED BETWEEN SPACES.
4. DOORS & SIDELITES MUST MAINTAIN THE SAME STC RATING AS THE PARTITION THEY ARE PENETRATING.
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7. SEE SHEET A8.3 FOR PARTITION TYPES.
8. SEE A-9 SERIES FOR FINISH PLANS.
9. SEE AV/IT, MECH., & ELECTRICAL DWGS FOR PLACEMENT OF EQUIPMENT. PROVIDE BLOCKING AS REQUIRED TO SUPPORT EQUIPMENT.
10. REFERENCE A5.X DRAWING SERIES FOR RECEPTACLE OUTLET PLACEMENT.
11. SEE SHEET A8.4 FOR TRIM PROFILES.
12. NEW WD BASE TRIM THROUGHOUT BUILDING U.No.

CONTRACTOR SHALL FIELD VERIFY ALL DIMENSIONS.

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INTERIOR ELEVATIONS
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ASST TO CHIEF OF STAFF 202 - ENLARGED FLOOR PLAN
SCALE: 1/2"=1'-0"

ASST. TO CHIEF OF STAFF 202 - NORTH ELEVATION
SCALE: 1/2"=1'-0"

ASST. TO CHIEF OF STAFF 202 - EAST ELEVATION
SCALE: 1/2"=1'-0"

ASST. TO CHIEF OF STAFF 202 - SOUTH ELEVATION
SCALE: 1/2"=1'-0"

ASST. TO CHIEF OF STAFF 202 - WEST ELEVATION
SCALE: 1/2"=1'-0"

CORRIDOR 203 - ENLARGED FLOOR PLAN
SCALE: 1/2"=1'-0"

CORRIDOR 203 - NORTH ELEVATION
SCALE: 1/2"=1'-0"

CORRIDOR 203 - EAST ELEVATION
SCALE: 1/2"=1'-0"

CORRIDOR 203 - SOUTH ELEVATION
SCALE: 1/2"=1'-0"

CORRIDOR 203 - WEST ELEVATION
SCALE: 1/2"=1'-0"

GENERAL NOTES
1. SEE BASE BIDS FOR SCOPE OF WORK.
2. PROVIDE SHOP DRAWINGS FOR ALL MILLWORK.
3. DO NOT INSTALL RECEPTACLE OUTLETs BACK TO BACK. STC RATINGS MUST BE MAINTAINED BETWEEN SPACES.
4. DOORS & SIDELITES MUST MAINTAIN THE SAME STC RATING AS THE PARTITION THEY ARE PENETRATING.
5. NEW PARTITIONS BETWEEN OFFICES, INCLUDING CORRIDOR WALLS TO BE FLOOR TO UNDERSIDE OF SLAB AND HAVE MIN STC RATING OF 45 U.
6. NEW PARTITIONS BETWEEN OFFICES AND TOILET ROOMS, INCLUDING CORRIDOR WALLS TO BE FLOOR TO UNDERSIDE OF SLAB AND HAVE MIN STC RATING OF 50.
7. SEE SHEET A8.3 FOR PARTITION TYPES.
8. SEE A-9 SERIES FOR FINISH PLANS.
9. SEE AV/IT, MECH., & ELECTRICAL DWGS FOR PLACEMENT OF EQUIPMENT. PROVIDE BLOCKING AS REQUIRED TO SUPPORT EQUIPMENT.
10. REFERENCE A5.X DRAWING SERIES FOR RECEPTACLE OUTLET PLACEMENT.
11. SEE SHEET A8.4 FOR TRIM PROFILES.
12. NEW WD BASE TRIM THROUGHOUT BUILDING U.N.O.

COMMONWEALTH OF PENNSYLVANIA
DEPARTMENT OF GENERAL SERVICES
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VAIL HALL RENOVATIONS
Lincoln University
Lower Oxford Township, Chester County, PA
DGS C-1101-0053 PHASE B01

08/23/21
03/02/22 - ADDENDUM #2

08/23/21 - 100% CD SUBMISSION
GENERAL NOTES

1. SEE BASE BIDS FOR SCOPE OF WORK.
2. PROVIDE SHOP DRAWINGS FOR ALL MILLWORK.
3. DO NOT INSTALL RECEPTACLE OUTLETS BACK TO BACK. STC RATINGS MUST BE MAINTAINED BETWEEN SPACES.
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VARIANCE FROM CONTRACT DOCUMENTS NOT PERMITTED WITHOUT PROFESSIONAL & BUREAU OF CONSTRUCTION APPROVAL.

VAIL HALL RENOVATIONS
Lincoln University
Lower Oxford Township, Chester County, PA

DGS C-1101-0053 PHASE 001
ART PTD OR CLR STAINED WD TRIM. SEE BASE BID. TYP.

PTD OR CLR STAINED WD BASE. SEE BASE BID. TYP.

PTD OR CLR STAINED WD CROWN MOLDING. SEE BASE BID. TYP.

PTD OR CLR STAINED WD CORNICE & FRIEZE. SEE BASE BID. TYP.

PTD OR CLR STAINED WD PANELING. SEE BASE BID. TYP.

CLR STAINED WD DOOR WITH EITHER PTD OR CLR STAINED TRIM TYP. SEE BASE BID.

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PTD OR CLR STAINED WD WALL PANELS, TRIM AND BASE. SEE BASE BID. TYP.

RECESSED VIDEO DISPLAY PTD OR CLR STAINED WD CROWN MOLDING. SEE BASE BID. TYP.

PTD GWB FABRIC WRAPPED ACOUSTIC WALL PANELS TYP.

FURRED OUT WALL FOR DISPLAYS. SEE DETAILS.

WRAP WD PANELING FROM EAST WALL TO NORTH WALL.

WALL-MOUNTED CAMERA. PROVIDE BLOCKING BEHIND ACOUSTICAL PANELS TO PREVENT CRIMPING OF FABRIC.

DROP-DOWN PROJECTOR SCREEN. SEE AV DWGS.

DROP-DOWN PROJECTOR. SEE AV DWGS.

EXIT RECESSED CAMERAS TO BE FLUSH WITH ACOUSTICAL WALL PANELING. BACK SIDE OF CAMERA NICHE TO BE PTD BLACK. WOOD SURROUND TO BE EITHER PTD OR CLR/STAINED TO MATCH WOOD PANELING. SEE BASE BID. TYP.

INSTALL NEW BRONZE AIR GRILLES. COORDINATE WITH .2 CONTRACTOR.

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COMMONWEALTH OF PENNSYLVANIA DEPARTMENT OF GENERAL SERVICES HARRISBURG, PENNSYLVANIA

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DGS C-1101-0053 PHASE 001

08/23/21
08/23/21 - 100% CD SUBMISSION
03/02/22 - ADDENDUM #2
GENERAL NOTES

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EXEC ADMIN TO PROVOST
125 SF
A5.35
7
8
9
10
11'-0"
PTD OR CLR STAINED WD
BASE. SEE BASE BID. TYP.
PTD OR CLR STAINED WD WNDW TRIM & SILL.
SEE BASE BID. TYP.
PTD OR CLR STAINED WD PANELING. SEE BASE BID. TYP.
CLR STAINED WD DOOR WITH EITHER PTD OR CLR STAINED TRIM TYP. SEE BASE BID.
5'-0"
3'-8"
EQ.
CLR STAINED WD DOOR WITH EITHER PTD OR CLR STAINED TRIM TYP. SEE BASE BID.
SLATE WNDW SILL
EQ.
EQ.

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11. SEE SHEET A8.4 FOR TRIM PROFILES.
12. NEW WD BASE TRIM THROUGHOUT BUILDING.
1. See base bid for scope of work.
2. See shop drawings for all millwork.
3. See electrical drawings for all electrical locations.
4. Provide shop drawings for all millwork.
5. New partitions between offices, include corridor to be floor to underside of slab and have a minimum STC rating of 45.
6. New partitions between offices and toilet rooms, include corridor to be floor to underside of slab and have a minimum STC rating of 50.
7. See sheet A8.3 for partition types.
8. See A-9 series for finish plans.
9. See AV/IT, MECH., & ELECTRICAL DWGS for placement of equipment. Provide blocking as required to support equipment.
11. See sheet A8.4 for trim profiles.
12. New WD base trim throughout building U.N.O.

Contractor shall field verify all dimensions. Variance from contract documents not permitted without professional & bureau of construction approval.

---

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Lincoln University
Lower Oxford Township, Chester County, PA
DGS C-1101-0053 PHASE 001

08/23/21 - 100% CD SUBMISSION
03/02/22 - ADDENDUM #2
GENERAL NOTES
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PROVOST 217 - NORTH ELEVATION
SCALE: 1/2"=1'-0"
A5.38

PROVOST 217 - ENLARGED FLOOR PLAN
SCALE: 1/2"=1'-0"
A5.38

PROVOST 217 - EAST ELEVATION
SCALE: 1/2"=1'-0"
A5.38

PROVOST 217 - WEST ELEVATION
SCALE: 1/2"=1'-0"
A5.38

PROVOST 217 - SOUTH ELEVATION
SCALE: 1/2"=1'-0"
A5.38

INTERIOR ELEVATIONS
A5.38
EXEC. ASST. TO PROVOST 218 - ENLARGED FLOOR PLAN
SCALE: 1/2"=1'-0"
A5.39

EXEC. ASST. TO PROVOST 218 - NORTH ELEVATION
SCALE: 1/2"=1'-0"
A5.39

EXEC. ASST. TO PROVOST 218 - EAST ELEVATION
SCALE: 1/2"=1'-0"
A5.39

EXEC. ASST. TO PROVOST 218 - SOUTH ELEVATION
SCALE: 1/2"=1'-0"
A5.39

EXEC. ASST. TO PROVOST 218 - WEST ELEVATION
SCALE: 1/2"=1'-0"
A5.39

INTERIOR ELEVATIONS
A5.39

GENERAL NOTES MODIFIED.
REVISIONS
2

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08/23/21
03/02/22 - ADDENDUM #2
1. See base bids for scope of work.
2. Provide shop drawings for all millwork.
3. Do not install receptacle outlets back to back. STC ratings must be maintained between spaces.
4. Doors & sidelites must maintain the same STC rating as the partition they are penetrating.
5. New partitions between offices, including corridor walls to be floor to underside of slab and have min STC rating of 45.
6. New partitions between offices and toilet rooms, including corridor walls to be floor to underside of slab and have min STC rating of 50.
7. See sheet A8.3 for partition types.
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Commonwealth of Pennsylvania
Department of General Services
Harrisburg, Pennsylvania

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Vail Hall Renovations
Lincoln University
Lower Oxford Township, Chester County, PA

08/23/21
08/23/21 - 100% CD Submission
03/02/22 - Addendum #2
GENERAL NOTES

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NOTE ALL RAISED OR DECORATIVE MASONRY TRANSITIONS ARE TO USE FULL SIZE BRICK. USE RESTRICTED TO Architect'S USE ONLY AS MODELED. MULTIPLE MAXIMUM DEPTH TO BE USED.

TYPICAL FLASHING DETAIL

SCALE: 3" = 1'-0"

A6.23

30# FELT

NEW 16 OZ. COPPER STEP FLASHING BETWEEN SHINGLES. MIN DIM 5"X7"; SECURE ROOF FLANGE INTO WOOD DECK W/ (2) COPPER NAILS

CONTINUOUS ICE AND WATER SHIELD; EXTEND UP BRICK TO REGLET AND 1'-0" TYP MIN ACROSS SHEATHING SLATES, TYP.

NOTE: ALL RAKES AND SIMILAR ROOF/WALL TRANSITIONS ARE TO HAVE CUT-IN REGLETS. COORDINATE WITH ARCHITECT TO DETERMINE WHERE STEP FLASHING OR STRAIGHT RUNS ARE TO BE USED.

NEW CONTINUOUS COPPER RECEIVER

NEW STEPPED SECTIONS OF 16 OZ. COPPER COUNTERFLASHING SECURED TO NEW RECEIVER W/ S.S. POP RIVETS AT 8" O.C; TERMINATE WITH VERTICAL CAULK AT EXPOSED END

DEEP REGLET: FILL JOINT W/ COPPER WOOL

BRICK TO BE GAUGED (FULL WIDTH AT TOP & BOTTOM OF ARCH) TO PROVIDE JOINTS OF CONSISTENT WIDTH, TYP.

ICE & WATER SHIELD

WOOD BLOCKING

#30 FELT

EXG. SHEATHING

CROWN

NOTE: WALL, PIERS, OR ABUTMENTS ADJACENT TO MASONRY MUST BE OF SUFFICIENT STRENGTH TO RESIST HORIZONTAL THRUSTS.

COMMONWEALTH OF PENNSYLVANIA
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08/23/21

08/23/21 - 100% CD SUBMISSION

03/02/22 - ADDENDUM #2

AS NOTED

SLATE ROOF & ARCH DETAILS

JSL

RAD

A6.23
CONTRACTOR SHALL FIELD VERIFY ALL DIMENSIONS. VARIANCE FROM CONTRACT DOCUMENTS NOT PERMITTED WITHOUT PROFESSIONAL & BUREAU OF CONSTRUCTION APPROVAL.

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VAIL HALL RENOVATIONS LINCOLN UNIVERSITY LOWER OXFORD TOWNSHIP, CHESTER COUNTY, PA

DGS C-1101-0053 PHASE 001

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08/23/21

08/23/21 - 100% CD SUBMISSION

03/02/22 - ADDENDUM #2

ENTRY VESTIBULE ELEVATION SCALE: 3/4"=1'-0" A6.9

ENTRY VESTIBULE PLAN SCALE: 3/4"=1'-0" A6.9

WALL SECTIONS/PLAN A6.9

PAINTED METAL CAP
PAINTED AZEK PARAPET
PAINTED METAL CAP
PAINTED AZEK FRIEZE & ARCHITRAVE
BRICK JACK ARCH
CLAD WINDOWS AND TRANSOM
CAST STONE PILASTERS. SEE SHEET A6.20 FOR MORE INFORMATION

GRANITE PAVERS
DOWNSPOUT FROM INTEGRAL GUTTER
MASONRY BACK UP WALLS

SECTION 2/A6.9 LEFT
SECTION 2/A6.9 RIGHT

DOOR TO FLAT ROOF ELEVATION SCALE: 3/4"=1'-0" A6.9

DOOR TO FLAT ROOF SECTION SCALE: 3/4"=1'-0" A6.9

DOOR TO FLAT ROOF PARTIAL PLAN SCALE: 3/4"=1'-0" A6.9

NEW ROOF ORNAMENT
SLATE ROOF
RAKING CORNICE
COPPER FLASHING; SEE ROOF DETAILS SHEET
METAL CORNICE; MITER & RETURN AT DOOR
CAST STONE VENEER & MOLDING
HOLLOW METAL DOOR WITH METAL THRESHOLD
CAST STONE BASE

METAL CORNICE TYPICAL WALL ASSEMBLY. REFER TO 2/A6.4 OR SIM FOR THE INSTALLATION OF WATER & VAPOR MITIGATION MEMBRANES

METAL THRESHOLD ON TOP OF CAST STONE THRESHOLD
METAL THRESHOLD PER SCHEDULE
METAL CORNICE
TYPICAL WALL ASSEMBLY. REFER TO DETAIL 2/A6.4 FOR WATER & VAPOR MITIGATION MEMBRANES FOR THIS AREA

NOTE MODIFIED TO CLARIFY CORNICE TO RETURN.

REVISIONS 2 2 2
INSTALL NEW LOW PROFILE CRICKET TO SHED WATER TO SCUPPERS.

INSTALL NEW FLAT PAN LEAD-COATED COPPER ROOF.

INSTALL NEW THRU-WALL SCUPPER AT EAST & WEST SIDE OF PORTICO TO DRAIN INTO THE GUTTER.

NEW MARINE-GRADE PLYWOOD SHEATHING.

INSTALL NEW THRU-WALL SCUPPER (BEYOND) LEAD-COATED COPPER TO EXTEND UP SLOPE MINIMUM 18".

NOTE:
1. TYPICAL FLAT SEAM INSTALLATION. LONGITUDINAL SEAMS ARE CONTINUOUS, TRANSVERSE SEAMS, WHICH ARE STAGGERED. EACH PAN IS CLEATED TO THE ROOF DECK. EACH PAN SHOULD BE INSTALLED SO THAT THE WATER ALWAYS SHEDS FROM ONE PAN ONTO THE UNDERLYING PAN. THE LOWER PAN IS FOLDED UNDER THE UPPER PAN.

2. PROVIDE MOCK-UP FOR SOLDERING OVER ICE & WATER SHIELD.

NEW LOW-PROFILE CRICKET WITH FLAT PAN LEAD-COATED COPPER ROOF.

EXG. SOUTH PORTICO SUBSTRATE.

EXAMINE FOR SOUND CONDITION.

ASSUME 100% REPLACEMENT.

SEPARATE ICE & WATER UNDERLAYMENT FROM LCC WITH #30 FELT.

INSTALL NEW JULIUS BLUM HANDRAIL.

BRONZE HANDRAIL WITH INTEGRATED LIGHTING.

PAINTED STARTING POSTS. COLOR TO MATCH LIMESTONE COLOR USED AT DOME & METAL CORNICE. SEE SPECS & HISTORIC MATERIAL ANALYSIS.

PAINT HISTORIC RAILING TO MATCH LIMESTONE COLOR USED AT DOME & METAL CORNICE. SEE SPECS & HISTORIC MATERIAL ANALYSIS.

POSTS TO SIT IN SST SLEEVES.

HANDRAIL TO EXTEND MIN. 1'-0" BEYOND TREAD.

3'-0"
SEE STRUCTURAL DWGS FOR STRUCTURE & CONDITIONING UNDER STAIR.

SOLID WOOD TREAD TO MATCH WOOD FLOOR FINISH.

WOOD FLOORING. SEE FINISH PLAN.

PTD OR CLR/STAINED WD BASE MOLDING. SEE BASE BID.

BRONZE HANDRAIL WITH BRONZE WALL BRACKET.

1/2" FURRING CHANNEL WITH 5/8" GWB CURB TO EXTEND NO HIGHER THAN ADJACENT WD WALL BASE.

PTD BLACK METAL STARTING POSTS W/ BRONZE ESCUTCHEON

DECORATIVE BRONZE COLLAR

PTD BLACK METAL SPINDLES

BRONZE GUARD RAIL

PTD BLACK METAL UPPER RAIL

PTD BLACK METAL LOWER RAIL

PTD OR CLR STAINED WD MOLDING APPLIED TO GWB. SEE BASE BID.

CURB WITH SLATE CAP

PTD OR CLR STAINED WD MOLDING TYP. SEE BASE BID.

CURB TO EXTEND NO HIGHER THAN ADJACENT WD WALL BASE.

PTD OR CLR STAINED WD TRIM APPLIED TO GWB.

CONCRETE SLAB AT CORNERS WITH WOOD MOLDING, CUT EDGES AT 45° TO CREATE A MITER JOINT.

PTD GWB OR WD VENEER. SEE BASE BID.

VARIANCE FROM CONTRACT DOCUMENTS NOT PERMITTED WITHOUT PROFESSIONAL & BUREAU OF CONSTRUCTION APPROVAL.

CONTRACTOR SHALL FIELD VERIFY ALL DIMENSIONS.
- See elevations

- 6" MTL STUD W/BLOCKING AS NECESSARY.

- 8"X3 1/2" POLYSHIM II TAPE (TREMCO INCORPORATED), COLOR: BLACK.

- CONTINUOUS BEAD SPECTRUM II SILICONE SEALANT TO FILL CAVITY COMPLETELY. COLOR: CLEAR.

- PTD OR CLR/STAINED WD BASE. SEE BASE BID.

- VERTICAL RAIL 5 1/8" GWB.

- PROVIDE HEADERS & SILLS AS REQUIRED.

- 6" SOUND ATTENUATING BATT TO MATCH PARTITION STC RATING.

- TYP. 8" SOUND ATTENUATING BATT.

- ALL GLAZING TO MAINTAIN PARTITION STC RATING. TYP. 1" INSULATED GLASS.

- PTD OR CLR/STN WD APRON & SILL. SEE BASE BID.

- PTD OR CLR/STAINED WD PANEL. SEE BASE BID.

- Glazing to be placed closer to corridor side (exterior side) of cased entry.

- See base bids for finish details.

- STC RATING OF GLAZING MUST MATCH THE STC RATING OF THE PARTITION IN WHICH IT PENETRATES. 1" GLAZING AT CASED/GLAZED OPENINGS.

- Sizes vary for cased/glazed entries. Reference floor plans & elevations.

- Provide shop drawings for all cased/glazed openings. TYP.
VARIANCE FROM CONTRACT

FIRST FLOOR FINISH PLAN - BASE BID 1
Lower Oxford Township, Chester County, PA
HARRISBURG, PENNSYLVANIA

2

PT-1
N/A
BBT-1
LLP
Mactavish Architects
&
CNCRT
128
MECH.
15
1'X2' SLATE TILE BOARDER
8
14
13
PROJECTS MANAGER
03/02/22 - ADDENDUM #2
CAPITAL
KEY NOTES
PT-1
PWB-1
EXPOSED STRUCTURE WALLS
SEALED CONCRETE FLOORS
123
1
EXG DECORATIVE ENCAUSTIC & HEARTH TILE TO REMAIN
GWB, LEVEL 5 FINISH
PT-1
PWB-1
ALIGN
NEW WOOD FLOOR
6.
ALL FLOOR PATTERNS TO BE CENTERED IN CORRIDORS AND ROOMS UNLESS OTHERWISE NOTED.

APPLY ACRYLIC LATEX PRIMER AND A MINIMUM (2) COATS HIGH PERFORMANCE
INSTALLATION, ETC). AND APPROVE ALL NECESSARY 'TOUCH UP' PAINTING AND OR PATCHING.
FINISH LEGEND UPDATED.

EXAMINE ALL AREAS OF CONSTRUCTION AFTER COMPLETION OF WORK BY ALL TRADES (INCLUDING CABLING, TELEPHONE AND FLOORING
ALIGNMENT & CONSTRUCTION OF STAIRS. TYP.

ALL EXISTING WALLS AND COLUMN ENCLOSURES TO BE PROPERLY PREPARED, SPACKLED AND SANDED, ETC. TO PROVIDE A PERFECTLY
ALL WALLS TO BE PAINTED EGGSHELL FINISH. ALL DRYWALL CEILINGS & SOFFITS TO BE PAINTED FLAT FINISH. ALL DOOR FRAMES &

STORAGE
CB-2
OFFICER
VP FISCAL
A9.1A
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GENERAL NOTES:
- All columns are exclusive of circulation and are intended to be included in the final construction footprint.
- Any exceptions or omissions are noted in the table as follows:
CONTRACTOR SHALL FIELD VERIFY ALL DIMENSIONS. VARIANCE FROM CONTRACT DOCUMENTS NOT PERMITTED WITHOUT PROFESSIONAL & BUREAU OF CONSTRUCTION APPROVAL.

VERIFY SCALE BAR IS ONE (1) INCH LONG ON ORIGINAL DRAWING: IF BAR IS NOT ONE (1) INCH LONG, ADJUST SCALE ACCORDINGLY.

ALL WORK ON THIS DRAWING IS BY THE CONTRACTOR.

12/17/19 - PROGRAMMING SUBMISSION
05/18/20 - SD SUBMISSION
12/14/20 - DD SUBMISSION
06/14/21 - INTERIM CD SUBMISSION
07/02/21 - PERMIT SUBMISSION
08/23/21 - CD SUBMISSION
09/24/21 - CD REVISIONS
03/07/22 - ADDENDUM #2
CONTRACTOR SHALL FIELD VERIFY ALL DIMENSIONS. VARIANCE FROM CONTRACT DOCUMENTS NOT PERMITTED WITHOUT PROFESSIONAL & BUREAU OF CONSTRUCTION APPROVAL.

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07/02/21 - PERMIT SUBMISSION
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09/24/21 - CD REVISIONS
03/07/22 - ADDENDUM #2
## Panel Schedule 'P132'

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## Panel Schedule 'PP'

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**General Sheet Notes**

- **Contractor shall field verify**
- **Provide warning label** "Warning: Potential arc-flash hazards exist while working on this energized equipment" on surface of panel.
- **Provision permanent provisions for lockable breaker."**
GENERAL ELEVATOR POWER SHUNT-TRIP
SUPERVISORY SIGNAL DIAGRAM

EQUIPMENT FOR INSTALLING HEIGHT SCHEDULES

<table>
<thead>
<tr>
<th>EQUIPMENT TYPE</th>
<th>INSTALLATION</th>
<th>HEIGHT LIMIT</th>
<th>ALLOWABLE INSTALLING HEIGHT</th>
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<tr>
<td>FIRE ALARM SPEAKER/STROBE</td>
<td>OVERHEAD</td>
<td>7'-0&quot; TO CEILING</td>
<td>2'-6&quot; TO GROUND</td>
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<td>FIRE ALARM CONTROL</td>
<td>WITHIN 2'-0&quot; OF WALL</td>
<td>2'-6&quot; TO GROUND</td>
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<tr>
<td>FIRE ALARM SYSTEM DUCT DETECTOR</td>
<td>BETWEEN 2'-0&quot; AND 3'-0:&quot;</td>
<td>2'-6&quot; TO GROUND</td>
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<td>FIRE ALARM SYSTEM SMOKE DETECTOR</td>
<td>BETWEEN 2'-0&quot; AND 3'-0:&quot;</td>
<td>2'-6&quot; TO GROUND</td>
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<td>FIRE ALARM SYSTEM HEAT DETECTOR</td>
<td>BETWEEN 2'-0&quot; AND 3'-0:&quot;</td>
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<td>FIRE ALARM SYSTEM PULL STATION</td>
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<td>FIRE ALARM SYSTEM SHUNT-TRIP DISCONNECT SWITCH</td>
<td>BETWEEN 2'-0&quot; AND 3'-0:&quot;</td>
<td>2'-6&quot; TO GROUND</td>
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<td>FIRE ALARM SYSTEM TAMPER/FLOW SWITCH</td>
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ELEVATOR RECALL CONTROL DIAGRAM

HARRISBURG, PENNSYLVANIA
DEPARTMENT OF GENERAL SERVICES
COMMONWEALTH OF PENNSYLVANIA
phone 215-545-4544 fax 215-545-3299
2401 Walnut Street, 6th Floor
Mactavish Architects & Voith
LYNN V. NIEPولد Linden
DAVID E. MACE PROFESSIONAL
COTW
ENGINEER

FIRE ALARM SYSTEM NOTES

1. FIRE ALARM SYSTEM APPLICATIONS FOR WHICH THEY ARE USED.
2. FIRE ALARM SYSTEM NOTES
3. FIRE ALARM SYSTEM CIRCUIT BREAKER
4. FIRE ALARM SYSTEM LEGEND
**GROUND SOURCE HEAT PUMP SCHEDULE**

<table>
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<th>No.</th>
<th>Type</th>
<th>Model</th>
<th>Make</th>
<th>Capacity</th>
<th>Voltage</th>
<th>Phase</th>
<th>Speed</th>
<th>RPM</th>
<th>HP</th>
<th>PM</th>
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**HEATING SCHEDULE**

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**SUPPLEMENTARY INFORMATION**

- Provide ECM motor where indicated.
- Provide propeller fan with ECM motor where indicated.
- Provide supplementary information for all other motors.

**GENERAL NOTES**

- Provide supplementary information for all other motors.
- Provide propeller fan with ECM motor where indicated.
- Provide supplementary information for all other motors.
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- Provide supplementary information for all other motors.