ADDENDUM NO. 5

To the Drawings and Project Manual dated 12 July 2018

for

MIDWESTERN STATE UNIVERSITY
MOFFETT LIBRARY RENOVATION
PHASE II
3410 Taft Boulevard     Wichita Falls, Texas   76308

Addendum Date: 7 August 2018

NOTICE TO PROPOSERS:

This addendum is hereby made part of the Project Specifications and Drawings dated July 12, 2018.

The Project Specifications and Drawings shall be supplemented or amended as specified herein.

This Addendum contains changes to the requirement of the Project Specifications. Such changes shall be incorporated into the Contract Documents and shall apply to work with the same meaning and force as if they had been included in the original Documents. Whenever this Addendum modifies a portion of a paragraph of the Project Specifications, the remainder of the paragraph affected shall remain in force. Added information is shown as Bold, deleted information is shown as strikethrough.

This Addendum contains changes to the requirement of the Drawings. Such changes shall be incorporated into the Contract Documents and shall apply to work with the same meaning and force as if they had been included in the original Documents. Whenever this Addendum modifies a portion of any drawing, the remainder of the drawing affected shall remain in force. Added, deleted or revised information is shown as “clouded”.

The conditions and terms of the basic Contract Documents shall govern work unless otherwise described in this Addendum. Whenever the conditions of work, and the quality or quantity of materials, or workmanship are not fully described in this Addendum, the conditions of work included in the basic Contract Documents for similar items of work shall apply to the work described in this Addendum.

If no similar items of work are included in the basic Contract Document, the best quality of material and workmanship shall apply and all work shall be subject to the written acceptance of the Architect.
I. REVISIONS TO PROJECT MANUAL/SPECIFICATIONS

A. SPECIFICATION SECTION 096800 - CARPETING and ADDENDUM #3
   Item: To Part 2.1(C) on page 096800-4 in the Project Manual and Item “M” under Section I of the Addendum.
   Description:
   1. DELETE: The carpet tile and color as indicated in the Specification Section and the Addendum Item.
   2. ADD: As clarification, Carpet “CPT1B” shall be Millikan “Quadrus Identity” walk-off mat carpet tile as indicated in the “Material Finish Legend” on Sheet “I-002” of the Drawings. The carpet tile shall be provided with custom graphics to be selected by the Architect/Owner, and as noted on Sheet “I-101”.

B. SPECIFICATION SECTION 057315 - CABLE RAIL SYSTEMS.
   Item: Page 057315-2, Part 2.1(A)
   Description:
   1. DELETE: The Manufacturer being “Vive TTE”.
   2. ADD: As clarification, the Manufacturer shall be a Viva “Tee” Railing System.

C. SPECIFICATION SECTION 087100 - DOOR HARDWARE and ADDENDUM #3
   Item: The complete Section under Item “K” under Section I of the Addendum.
   Description:
   1. DELETE: The Specification Section in its entirety.
   2. ADD: Specification Section 087100 - DOOR HARDWARE attached with this Addendum. Revisions have been made to Hardware Sets “HW-3” and “HW-11”.

D. SPECIFICATION SECTION 054000 - COLD FORMED METAL FRAMING
   Item: To Parts 1.5(D) & (E) on page 054000-3.
   Description:
   1. ADD: As clarification, the Cold Formed Metal Framing Supplier/Manufacturer will be required to provide the specified Engineering Data and Structural Design Calculations for its use in conjunction with the Curtainwall and Aluminum Storefront Framing Systems at the Bay Windows.

II. REVISIONS TO DRAWINGS

A. ARCHITECTURAL DRAWING - Sheet “I-002”.
   ADD: As clarification, under Material ID “WD1”, “Stikwood” refers to the reclaimed adhered wood product, Stikwood “Sierra Gold”, that is specified in Section 064023, INTERIOR ARCHITECTURAL WOODWORK, on Page 064203-4, under Part 2.5(A).
B. ARCHITECTURAL DRAWING - Sheets “A-851”.
Replace the Drawing with the revised Sheet attached in this Addendum. The Hollow Metal Frames for the existing arched openings in “Reading Room 108L” have been added. Also, clarified that doors “2STRW2”, “2STRW3”, “3STRW2”, and “3STRW3” are new doors in new frames in an existing wall condition. In addition, revisions have been made to openings “113F”, “113G”, “211”, “216A”, “237A”, “238A”, and “251” have been revised.

C. ARCHITECTURAL DRAWING - Sheets “I-110”.
Replace the Drawing with the revised Sheet attached in this Addendum. Clarification has been made regarding the size of the area rugs in “Reading Room 108L”.

D. ARCHITECTURAL DRAWINGS - Sheets “A-803”.
Replace the Drawing with the revised Sheet attached in this Addendum. A “Window/Window Shade Schedule” has been added to clarify the locations of window shades.

ADD: As clarification, under “5/A-803”, all existing and new window frames are to be painted “PT7”. Paint grade wood shall be provided for the new window frames.

E. ARCHITECTURAL DRAWINGS - Sheets “D-103”.
Replace the Drawing with the revised Sheet attached in this Addendum. Clarification has been made regarding the removal of the handrail at the existing Stairs and the provision of new handrailings.

ADD: As clarification, all handrailings at all existing Stairs will be removed and provided with new railing systems as scheduled.

F. ARCHITECTURAL DRAWING - Sheet “A-701”.
Replace the Drawing with the revised Sheet attached in this Addendum. On the Stair Plan “1/A-701”, the indication of a Stainless Steel Pipe Cane Rail being provided below the Stair has been indicated.

ADD: As clarification, Building accessories such as markerboards, projector screens, bulletin boards, etc. are all Owner provided/Owner furnished and shall be installed by the CM@R. The Elevation Drawings are suggesting where these accessories should be installed.

END OF ADDENDUM NO. 5
SECTION 087100

DOOR HARDWARE

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. Mechanical door hardware for the following:
      a. Swinging doors.

1.3 ACTION SUBMITTALS

A. Product Data: For each type of product indicated. Include construction and installation details, material descriptions, dimensions of individual components and profiles, and finishes.

B. Shop Drawings: Details of electrified door hardware, indicating the following:
   1. Wiring Diagrams: For power, signal, and control wiring and including the following:
      a. Details of interface of electrified door hardware and building safety and security systems.
      b. Schematic diagram of systems that interface with electrified door hardware.
      c. Point-to-point wiring.
      d. Risers.
      e. Elevations doors controlled by electrified door hardware.
   2. Operation Narrative: Describe the operation of doors controlled by electrified door hardware.

C. Other Action Submittals:
   1. Door Hardware Schedule: Prepared by or under the supervision of Installer, detailing fabrication and assembly of door hardware, as well as installation procedures and diagrams. Coordinate final door hardware schedule with doors, frames, and related work to ensure proper size, thickness, hand, function, and finish of door hardware.
      a. Submittal Sequence: Submit door hardware schedule concurrent with submissions of Product Data, Samples, and Shop Drawings. Coordinate submission of door hardware schedule with scheduling requirements of other work to facilitate the fabrication of other work that is critical in Project construction schedule.
      b. Format: Comply with scheduling sequence and vertical format in DHI's "Sequence and Format for the Hardware Schedule." Double space entries, and number and date each page.
c. Format: Use same scheduling sequence and format and use same door numbers as in the Contract Documents.
d. Content: Include the following information:
   1) Identification number, location, hand, fire rating, size, and material of each door and frame.
   2) Locations of each door hardware set, cross-referenced to Drawings on floor plans and to door and frame schedule.
   3) Complete designations, including name and manufacturer, type, style, function, size, quantity, function, and finish of each door hardware product.
   4) Description of electrified door hardware sequences of operation and interfaces with other building control systems.
   5) Fastenings and other pertinent information.
   6) Explanation of abbreviations, symbols, and codes contained in schedule.
   7) Mounting locations for door hardware.
   8) List of related door devices specified in other Sections for each door and frame.

2. Keying Schedule: Prepared by or under the supervision of Installer, detailing Owner's final keying instructions for locks. Include schematic keying diagram and index each key set to unique door designations that are coordinated with the Contract Documents.

1.4 INFORMATIONAL SUBMITTALS

A. Qualification Data: For Installer and Architectural Hardware Consultant.

B. Product Certificates: For electrified door hardware, from the manufacturer.
   1. Certify that door hardware approved for use on types and sizes of labeled fire-rated doors complies with listed fire-rated door assemblies.

C. Product Test Reports: For compliance with accessibility requirements, based on evaluation of comprehensive tests performed by manufacturer and witnessed by a qualified testing agency, for door hardware on doors located in accessible routes.

D. Warranty: Special warranty specified in this Section.

1.5 CLOSEOUT SUBMITTALS

A. Maintenance Data: For each type of door hardware to include in maintenance manuals. Include final hardware and keying schedule.

1.6 QUALITY ASSURANCE

A. Installer Qualifications: Supplier of products and an employer of workers trained and approved by product manufacturers and an Architectural Hardware Consultant who is available during the course of the Work to consult with Contractor, Architect, and Owner about door hardware and keying.
   1. Warehousing Facilities: In Project's vicinity.
   2. Scheduling Responsibility: Preparation of door hardware and keying schedules.
3. Engineering Responsibility: Preparation of data for electrified door hardware, including Shop Drawings, based on testing and engineering analysis of manufacturer's standard units in assemblies similar to those indicated for this Project.

B. Architectural Hardware Consultant Qualifications: A person who is experienced in providing consulting services for door hardware installations that are comparable in material, design, and extent to that indicated for this Project and who is currently certified by DHI as follows:
   1. For door hardware, an Architectural Hardware Consultant (AHC).

C. Source Limitations: Obtain each type of door hardware from a single manufacturer as much as possible.
   1. Provide electrified door hardware from same manufacturer as mechanical door hardware, unless otherwise indicated. Manufacturers that perform electrical modifications and that are listed by a testing and inspecting agency acceptable to authorities having jurisdiction are acceptable.

D. Fire-Rated Door Assemblies: Where fire-rated door assemblies are indicated, provide door hardware rated for use in assemblies complying with NFPA 80 that are listed and labeled by a qualified testing agency, for fire-protection ratings indicated, based on testing at positive pressure according to NFPA 252 or UL 10C, unless otherwise indicated.

E. Smoke- and Draft-Control Door Assemblies: Where smoke- and draft-control door assemblies are required, provide door hardware that meet requirements of assemblies tested according to UL 1784 and installed in compliance with NFPA 105.
   1. Air Leakage Rate: Maximum air leakage of 0.3 cfm/sq. ft. at the tested pressure differential of 0.3-inch wg of water.

F. Means of Egress Doors: Latches do not require more than 15 lbf to release the latch. Locks do not require use of a key, tool, or special knowledge for operation.

G. Accessibility Requirements: For door hardware on doors in an accessible route, comply with the U.S. Architectural & Transportation Barriers Compliance Board's ADA-ABA Accessibility Guidelines and Texas Accessibility Guidelines.
   1. Provide operating devices that do not require tight grasping, pinching, or twisting of the wrist and that operate with a force of not more than 5 lbf.
   2. Comply with the following maximum opening-force requirements:
      a. Interior, Non-Fire-Rated Hinged Doors: 5 lbf applied perpendicular to door.
      b. Fire Doors: Minimum opening force allowable by authorities having jurisdiction.
   3. Bevel raised thresholds with a slope of not more than 1:2. Provide thresholds not more than 1/2 inch high.
   4. Adjust door closer sweep periods so that, from an open position of 70 degrees, the door will take at least 3 seconds to move to a point 3 inches from the latch, measured to the leading edge of the door.

H. Keying Conference: Conduct conference at Project site to comply with requirements in Section 013100 "Project Management and Coordination." In addition to Owner, Construction Manager, Contractor, and Architect, conference participants shall also include supplier's Architectural Hardware Consultant and Owner's security consultant. Incorporate keying conference decisions into final keying schedule after reviewing door hardware keying system including, but not limited to, the following:
1. Function of building, flow of traffic, purpose of each area, degree of security required, and plans for future expansion.
2. Preliminary key system schematic diagram.
3. Requirements for key control system.
4. Requirements for access control.
5. Address for delivery of keys.

I. Preinstallation Conference: Conduct conference at Project site.
1. Review and finalize construction schedule and verify availability of materials, Installer's personnel, equipment, and facilities needed to make progress and avoid delays.
2. Inspect and discuss preparatory work performed by other trades.
3. Inspect and discuss electrical roughing-in for electrified door hardware.
4. Review sequence of operation for each type of electrified door hardware.
5. Review required testing, inspecting, and certifying procedures.

1.7 DELIVERY, STORAGE, AND HANDLING
A. Inventory door hardware on receipt and provide secure lock-up for door hardware delivered to Project site.
B. Tag each item or package separately with identification coordinated with the final door hardware schedule, and include installation instructions, templates, and necessary fasteners with each item or package.
C. Deliver keys to manufacturer of key control system for subsequent delivery to Owner.
D. Deliver keys and permanent cores to Owner by registered mail overnight package service, or in person.

1.8 COORDINATION
A. Coordinate layout and installation of floor-recessed door hardware with floor construction. Cast anchoring inserts into concrete.
B. Installation Templates: Distribute for doors, frames, and other work specified to be factory prepared. Check Shop Drawings of other work to confirm that adequate provisions are made for locating and installing door hardware to comply with indicated requirements.
C. Security: Coordinate installation of door hardware, keying, and access control with Owner's security consultant.
D. Electrical System Roughing-In: Coordinate layout and installation of electrified door hardware with connections to power supplies and building safety and security systems.
E. Existing Openings: Where hardware components are scheduled for application to existing construction or where modifications to existing door hardware are required, field verify existing conditions and coordinate installation of door hardware to suit opening conditions and to provide proper door operation.
1.9 WARRANTY

A. Special Warranty: Manufacturer's standard form in which manufacturer agrees to repair or replace components of door hardware that fail in materials or workmanship within specified warranty period.
   1. Failures include, but are not limited to, the following:
      a. Structural failures including excessive deflection, cracking, or breakage.
      b. Faulty operation of doors and door hardware, caused by product defects.
      c. Deterioration of metals, metal finishes, and other materials beyond normal weathering and use.
   2. Warranty Period: One year from date of Substantial Completion, unless otherwise indicated.
      a. Exit Devices: Three years from date of Substantial Completion.
      b. Manual Closers: 10 years from date of Substantial Completion.

1.10 MAINTENANCE SERVICE

A. Maintenance Tools and Instructions: Furnish a complete set of specialized tools and maintenance instructions for Owner's continued adjustment, maintenance, and removal and replacement of door hardware.

B. Maintenance Service: Beginning at Substantial Completion, provide six months' full maintenance by skilled employees of door hardware Installer. Include quarterly preventive maintenance, repair or replacement of worn or defective components, lubrication, cleaning, and adjusting as required for proper door and door hardware operation. Provide parts and supplies that are the same as those used in the manufacture and installation of original products.

PART 2 - PRODUCTS

2.1 SCHEDULED DOOR HARDWARE

A. Provide door hardware for each door as scheduled in Part 3 "Door Hardware Schedule" to comply with requirements in this Section.
   1. Door Hardware Sets: Provide quantity, item, size, finish or color indicated, and named manufacturers' products only.
   2. Sequence of Operation: Provide electrified door hardware function, sequence of operation, and interface with other building control systems indicated.

B. Designations: Requirements for design, grade, function, finish, size, and other distinctive qualities of each type of door hardware are indicated in Part 3 "Door Hardware Schedule" Article. Products are identified by using door hardware designations, as follows:
   1. Named Manufacturers' Products: Manufacturer and product designation are listed for each door hardware type required no substitutions. Manufacturers' names are abbreviated in Part 3 "Door Hardware Schedule" Article.
2.2 HINGES

A. Hinges: BHMA A156.1. Provide template-produced hinges for hinges installed on hollow-metal doors and hollow-metal frames.
   1. Manufacturers: Subject to compliance with requirements, provide products by the following:
      a. McKinney; an ASSA ABLOY Group Company.

2.3 MECHANICAL LOCKS AND LATCHES

A. Lock Functions: As indicated in door hardware schedule.

B. Lock Throw: Comply with testing requirements for length of bolts required for labeled fire doors, and as follows:
   2. Deadbolts: Minimum 1-inch bolt throw.

C. Lock Backset: 2-3/4 inches, unless otherwise indicated.

D. Lock Trim:
   1. Description: As indicated on Drawings.
   2. Levers: Wrought.
   3. Full Plate Escutcheons: Wrought.
   4. Dummy Trim: Match lock trim and escutcheons.
   5. Operating Device: Lever with Full Plate escutcheons.

E. Strikes: Provide manufacturer's standard strike for each lock bolt or latchbolt complying with requirements indicated for applicable lock or latch and with strike box and curved lip extended to protect frame; finished to match lock or latch.

F. Mortise Locks: BHMA A156.13; Operational Grade 1; stamped steel case with steel or brass parts; Series 1000.
   1. Manufacturers: Subject to compliance with requirements, provide products by the following:
      a. Corbin Russwin Architectural Hardware; an ASSA ABLOY Group company.

G. Push-Pull Latches: Bored, BHMA A156.2; Series 4000 Mortise, BHMA A156.13; Grade 1; with paddle handles that retract latchbolt; capable of being mounted vertically or horizontally.
   1. Manufacturers: Subject to compliance with requirements, provide products by the following:
      a. Corbin Russwin Architectural Hardware; an ASSA ABLOY Group company.

2.4 LOCK CYLINDERS

A. Provide to all locking devices 6 pin interchangeable core.

B. Lock Cylinders: Tumbler type, constructed from brass or bronze, stainless steel, or nickel silver.
   1. Manufacturer: Same manufacturer as for locking devices.
2. Manufacturers: Subject to compliance with requirements, provide products by one of the:
   a. Corbin Russwin Architectural Hardware; an ASSA ABLOY Group company.

C. Standard Lock Cylinders: BHMA A156.5; Grade 1; permanent cores that are interchangeable; face finished to match lockset.

D. Construction Cores: Provide construction cores that are replaceable by permanent cores. Provide 10 construction master keys.

2.5 KEYING

   1. Great-Grand Master Key System: Change keys, a master key, a grand master key, and a great-grand master key operate cylinders.
   2. Existing System:
      a. Master key or grand master key locks to Owner's existing system. Verify and insure to match existing.

B. Keys: Nickel silver.
   1. Stamping: Permanently inscribe each key with a visual key control number and include the following notation:
      a. Notation: "DO NOT DUPLICATE.
   2. Quantity: In addition to one extra key blank for each lock, provide the following:
      b. Master Keys: Five.

2.6 SURFACE CLOSERS

A. Surface Closers: BHMA A156.4; rack-and-pinion hydraulic type with adjustable sweep and latch speeds controlled by key-operated valves and forged-steel main arm. Comply with manufacturer's written recommendations for size of door closers depending on size of door, exposure to weather, and anticipated frequency of use. Provide factory-sized closers, adjustable to meet field conditions and requirements for opening force.
   1. Manufacturers: Subject to compliance with requirements, provide products by the following:
      a. LCN Closers; an Ingersoll-Rand company.

2.7 MECHANICAL STOPS AND HOLDERS

A. Wall- and Floor-Mounted Stops: BHMA A156.16; Stainless Steel base metal.
   1. Manufacturers: Subject to compliance with requirements, provide products by one of the following:
      a. National Guard Products (NGP).
2.8 OVERHEAD STOPS AND HOLDERS

A. Overhead Stops and Holders: BHMA A156.8.
   1. Manufacturers: Subject to compliance with requirements, provide products by the following:
      a. Glynn-Johnson; an Ingersoll-Rand company.

2.9 DOOR GASKETING

A. Door Gasketing: BHMA A156.22; air leakage not to exceed 0.50 cfm per foot of crack length for gasketing other than for smoke control, as tested according to ASTM E 283; with resilient or flexible seal strips that are easily replaceable and readily available from stocks maintained by manufacturer.
   1. Manufacturers: Subject to compliance with requirements, provide products by the following:
      a. National Guard Products.

2.10 METAL PROTECTIVE TRIM UNITS

A. Metal Protective Trim Units: BHMA A156.6; fabricated from 0.050-inch-thick, finish as indicated; with manufacturer's standard machine or self-tapping screw fasteners.
   1. Manufacturers: Subject to compliance with requirements, provide products by one of the following:
      a. IVES Hardware; an Ingersoll-Rand company.

2.11 FABRICATION

A. Manufacturer's Nameplate: Do not provide products that have manufacturer's name or trade name displayed in a visible location except in conjunction with required fire-rated labels and as otherwise approved by Architect.
   1. Manufacturer's identification is permitted on rim of lock cylinders only.

B. Base Metals: Produce door hardware units of base metal indicated, fabricated by forming method indicated, using manufacturer's standard metal alloy, composition, temper, and hardness. Furnish metals of a quality equal to or greater than that of specified door hardware units and BHMA A156.18.

C. Fasteners: Provide door hardware manufactured to comply with published templates prepared for machine, wood, and sheet metal screws. Provide screws that comply with commercially recognized industry standards for application intended, except aluminum fasteners are not permitted. Provide Phillips flat-head screws with finished heads to match surface of door hardware, unless otherwise indicated.
   1. Concealed Fasteners: For door hardware units that are exposed when door is closed, except for units already specified with concealed fasteners. Do not use through bolts for installation where bolt head or nut on opposite face is exposed unless it is the only means of securely attaching the door hardware. Where through bolts are used on hollow door and frame construction, provide sleeves for each through bolt.
   2. Fire-Rated Applications:
a. Wood or Machine Screws: For the following:
   1) Hinges mortised to doors or frames; use threaded-to-the-head wood screws for wood doors and frames.
   2) Strike plates to frames.
   3) Closers to doors and frames.
b. Steel Through Bolts: For the following unless door blocking is provided:
   1) Surface hinges to doors.
   2) Closers to doors and frames.
   3) Surface-mounted exit devices.
3. Spacers or Sex Bolts: For through bolting of hollow-metal doors.
4. Fasteners for Wood Doors: Comply with requirements in DHI WDHS.2, "Recommended Fasteners for Wood Doors."
5. Gasketing Fasteners: Provide noncorrosive fasteners for exterior applications and elsewhere as indicated.

2.12 FINISHES
A. Provide finishes complying with BHMA A156.18 as indicated in door hardware schedule.
B. Protect mechanical finishes on exposed surfaces from damage by applying a strippable, temporary protective covering before shipping.
C. Appearance of Finished Work: Variations in appearance of abutting or adjacent pieces are acceptable if they are within one-half of the range of approved Samples. Noticeable variations in the same piece are not acceptable. Variations in appearance of other components are acceptable if they are within the range of approved Samples and are assembled or installed to minimize contrast.

PART 3 - EXECUTION

3.1 EXAMINATION
A. Examine doors and frames, with Installer present, for compliance with requirements for installation tolerances, labeled fire-rated door assembly construction, wall and floor construction, and other conditions affecting performance.
B. Examine roughing-in for electrical power systems to verify actual locations of wiring connections before electrified door hardware installation.
C. Proceed with installation only after unsatisfactory conditions have been corrected.

3.2 PREPARATION
A. Steel Doors and Frames: For surface applied door hardware, drill and tap doors and frames according to ANSI/SDI A250.6.
B. Wood Doors: Comply with DHI WDHS.5 "Recommended Hardware Reinforcement Locations for Mineral Core Wood Flush Doors."
3.3 INSTALLATION

A. Mounting Heights: Mount door hardware units at heights unless otherwise indicated or required to comply with governing regulations.
   2. Wood Doors: DHI WDHS.3, "Recommended Locations for Architectural Hardware for Wood Flush Doors."

B. Install each door hardware item to comply with manufacturer's written instructions. Where cutting and fitting are required to install door hardware onto or into surfaces that are later to be painted or finished in another way, coordinate removal, storage, and reinstallation of surface protective trim units with finishing. Do not install surface-mounted items until finishes have been completed on substrates involved.
   1. Set units level, plumb, and true to line and location. Adjust and reinforce attachment substrates as necessary for proper installation and operation.
   2. Drill and countersink units that are not factory prepared for anchorage fasteners. Space fasteners and anchors according to industry standards.

C. Hinges: Install types and in quantities indicated in door hardware schedule but not fewer than the number recommended by manufacturer for application indicated or one hinge for every 30 inches of door height, whichever is more stringent, unless other equivalent means of support for door, such as spring hinges or pivots, are provided.

D. Lock Cylinders: Install construction cores to secure building and areas during construction period.
   1. Furnish permanent cores to Owner for installation.

E. Key Control System: Tag keys and place them on markers and hooks in key control system cabinet, as determined by final keying schedule.

F. Stops: Provide floor stops for doors unless wall or other type stops are indicated in door hardware schedule. Do not mount floor stops where they will impede traffic.

G. Perimeter Gasketing: Apply to head and jamb, forming seal between door and frame.

3.4 FIELD QUALITY CONTROL

A. Independent Architectural Hardware Consultant: Owner will engage a qualified independent Architectural Hardware Consultant to perform inspections and to prepare inspection reports.
   1. Independent Architectural Hardware Consultant will inspect door hardware and state in each report whether installed work complies with or deviates from requirements, including whether door hardware is properly installed and adjusted.

3.5 ADJUSTING

A. Initial Adjustment: Adjust and check each operating item of door hardware and each door to ensure proper operation or function of every unit. Replace units that cannot be adjusted to
operate as intended. Adjust door control devices to compensate for final operation of heating and ventilating equipment and to comply with referenced accessibility requirements.

1. Spring Hinges: Adjust to achieve positive latching when door is allowed to close freely from an open position of 30 degrees.
2. Door Closers: Adjust sweep period to comply with accessibility requirements and requirements of authorities having jurisdiction.

B. Occupancy Adjustment: Approximately six months after date of Substantial Completion, Installer's Architectural Hardware Consultant shall examine and readjust each item of door hardware, including adjusting operating forces, as necessary to ensure function of doors, door hardware, and electrified door hardware.

3.6 CLEANING AND PROTECTION

A. Clean adjacent surfaces soiled by door hardware installation.
B. Clean operating items as necessary to restore proper function and finish.
C. Provide final protection and maintain conditions that ensure that door hardware is without damage or deterioration at time of Substantial Completion.

3.7 DOOR HARDWARE SCHEDULE: The Hardware Schedule represents the hardware per leaf. Any door not scheduled shall have hardware and similar door and similar function. All doors shall be provided with Hardware as a part of the Basic Bid.

**LEGEND**

ASSA = ASSA ABLOY
CR = CORBIN RUSSWIN
LCN = LCN
MK = MCKINNEY
PE = PEMKO
RO = ROCKWOOD
VO = VON DUPRIN

**HW – 1 (SINGLE DOOR - STORAGE ROOM, CUSTODIAL, MECHANICAL)**

DOORS #102E, 103A, 103B, 113E, 1CUST3, 1MECH1, 207Aa, 207Ab, 2CUST3, 2CUST4, 309, 310A, 310B, 312A, 312B, 315A, 315B, 316, 3MECH10, 3MECH11, 3STO5, 3STRW4

<table>
<thead>
<tr>
<th>Item</th>
<th>Description</th>
<th>Manufacturer</th>
<th>Finish</th>
</tr>
</thead>
<tbody>
<tr>
<td>1 ½</td>
<td>PAIR BUTTS</td>
<td>MPB68 - 4 ½ X 4 ½</td>
<td>MK 26D</td>
</tr>
<tr>
<td>1</td>
<td>MORTISE LOCK</td>
<td>ML2057 x LWM</td>
<td>CR 626</td>
</tr>
<tr>
<td>1</td>
<td>CLOSER</td>
<td>4040 XP REG/PA TBWMS</td>
<td>LCN AL</td>
</tr>
<tr>
<td>1</td>
<td>WALL BUMPER</td>
<td>406</td>
<td>RO US32D</td>
</tr>
<tr>
<td>3</td>
<td>DOOR SILENCERS</td>
<td>608-RKW</td>
<td>RO GREY</td>
</tr>
</tbody>
</table>

NOTE: ALSO PROVIDE A 10" HIGH METAL KICK PLATES FOR OPENINGS #113E, #1CUST3, #2CUST3, #2CUST4, #309, #310A, #310B, #312A, #312B, #315A, #315B, & #316 –
KICK PLATES SHALL BE EQUAL TO ASSA ABLOY “ROCKWOOD” #K1050; .050” THICKNESS, US26D/626 FINISH.

NOTE: ON EXISTING DOORS, ALSO PROVIDE A WRAP-AROUND EQUAL TO DON JO #4U2CW WITH ESCUTCHEON TRIM, FINISH TO MATCH LOCKSET.

**HW – 2 (SINGLE DOOR – EXIT TO STAIRS)**

<table>
<thead>
<tr>
<th>Item</th>
<th>Specification</th>
<th>Finish</th>
</tr>
</thead>
<tbody>
<tr>
<td>Pair Butts</td>
<td>MPB68 - 4 ½ X 4 ½ FTMS</td>
<td>MK 26D</td>
</tr>
<tr>
<td>Exit Device</td>
<td>98L-BE-F x 996-R/V-BE-425-SNB VO</td>
<td>26D</td>
</tr>
<tr>
<td>Closer</td>
<td>4040 XP REG/PA TBWMS</td>
<td>LCN AL</td>
</tr>
<tr>
<td>Wall Bumper</td>
<td>406</td>
<td>RO US32D</td>
</tr>
<tr>
<td>Smoke Seal</td>
<td>S88 BL 17”</td>
<td>PE BLACK</td>
</tr>
<tr>
<td>Threshold</td>
<td>205AV 36”</td>
<td>PE AL</td>
</tr>
<tr>
<td>Kick Plate</td>
<td>“ROCKWOOD” K1050</td>
<td>ASSA US26D/626</td>
</tr>
</tbody>
</table>

**HW – 3 (OFFICE)**

<table>
<thead>
<tr>
<th>Item</th>
<th>Specification</th>
<th>Finish</th>
</tr>
</thead>
<tbody>
<tr>
<td>Pair Butts</td>
<td>MPB68 - 4 ½ X 4 ½ FTMS</td>
<td>MK 26D</td>
</tr>
<tr>
<td>Mortise Lock</td>
<td>ML2051 x LWM</td>
<td>CR 626</td>
</tr>
<tr>
<td>Permanent Core</td>
<td>8000 KY3 VKC1</td>
<td>CR 626</td>
</tr>
<tr>
<td>Closer</td>
<td>4040 XP REG/PA TBWMS</td>
<td>LCN AL</td>
</tr>
<tr>
<td>Wall Bumper</td>
<td>406</td>
<td>RO US32D</td>
</tr>
<tr>
<td>Door Silencers</td>
<td>608-RKW</td>
<td>RO GREY</td>
</tr>
</tbody>
</table>

NOTE: ALSO PROVIDE A 10” HIGH METAL KICK PLATES FOR OPENINGS #110B, #111, #111A, #111B, #113E, #216, #217, #218, #219, #220, #221, #222, #223, #224, #225, #226, #227, #228, #229, #230, #231, #232, #233, #234, #235, #236, #237, #238, #239, #240, #241, #242, #243, #244, #245, #246, #247, #248, #249, #250, #251, #252, #253, #284A, #284B, & #284C – KICK PLATES SHALL BE EQUAL TO ASSA ABLOY “ROCKWOOD” #K1050; .050” THICKNESS, US26D/626 FINISH.

NOTE: ON EXISTING DOORS, ALSO PROVIDE A WRAP-AROUND EQUAL TO DON JO #4U2CW WITH ESCUTCHEON TRIM, FINISH TO MATCH LOCKSET.
**HW – 4 (TOILET ROOM – PRIVATE)**

DOORS: #102D, 1RR3, 2TOIL2

<table>
<thead>
<tr>
<th>Item</th>
<th>Model</th>
<th>Note</th>
</tr>
</thead>
<tbody>
<tr>
<td>½ PAIR BUTT MPB68 – 4 ½ X 4 ½</td>
<td></td>
<td>MK 26D</td>
</tr>
<tr>
<td>1 MORTISE LOCK ML2060 x LWM x CL6</td>
<td>CR 626</td>
<td></td>
</tr>
<tr>
<td>1 CLOSER 4040 XP x P REG/PA TBWMS</td>
<td>LCN AL</td>
<td></td>
</tr>
<tr>
<td>1 WALL BUMPER 406</td>
<td>RO US32B</td>
<td></td>
</tr>
<tr>
<td>3 DOOR SILENCERS 608-RKW</td>
<td>RO GREY</td>
<td></td>
</tr>
</tbody>
</table>

**NOTE:** ON EXISTING DOORS, ALSO PROVIDE A WRAP-AROUND EQUAL TO DON JO #4U2CW WITH ESCUTCHEON TRIM, FINISH TO MATCH LOCKSET.

**HW – 5 (PAIR DOORS – EXIT TO STAIRS)**

DOORS #1STRW2A, 1STRW3A, 3STRW2, 3STRW3

<table>
<thead>
<tr>
<th>Item</th>
<th>Model</th>
<th>Note</th>
</tr>
</thead>
<tbody>
<tr>
<td>3 PAIR BUTTS MPB68 - 4 ½ X 4 ½ FTMS</td>
<td></td>
<td>MK 26D</td>
</tr>
<tr>
<td>1 FIRE-RATED MULLION 9954 87&quot;</td>
<td>VO SP28</td>
<td></td>
</tr>
<tr>
<td>2 FIRE EXIT DEVICES 98L-BE-F x 996-R/V-BE-425-SNB</td>
<td>VO US26D</td>
<td></td>
</tr>
<tr>
<td>2 CLOSERS 4040 XP REG/PA TBWMS</td>
<td>LCN AL</td>
<td></td>
</tr>
<tr>
<td>2 WALL BUMPERS 406</td>
<td>RO US32D</td>
<td></td>
</tr>
<tr>
<td>1 SMOKE SEAL S88 BL 20’</td>
<td>PE BLACK</td>
<td></td>
</tr>
<tr>
<td>1 MULLION GASKETING 510BL 120</td>
<td>PE</td>
<td></td>
</tr>
</tbody>
</table>

**NOTE:** ALSO PROVIDE A 10” HIGH METAL KICK PLATES FOR OPENINGS #1STRW2A & #1STRW3A – KICK PLATES SHALL BE EQUAL TO ASSA ABLOY “ROCKWOOD” #K1050; .050” THICKNESS, US26D/626 FINISH

**HW – 6 (PAIR DOORS – STAIRS TO EXTERIOR)**

DOORS #1STRW2B, 1STRW3B

<table>
<thead>
<tr>
<th>Item</th>
<th>Model</th>
<th>Note</th>
</tr>
</thead>
<tbody>
<tr>
<td>3 PAIR BUTTS MPB99 - 4 ½ X 4 ½ NRP FTMS</td>
<td></td>
<td>MK 26D</td>
</tr>
<tr>
<td>1 FIRE-RATED MULLION 9954 87&quot;</td>
<td>VO SP28</td>
<td></td>
</tr>
<tr>
<td>2 FIRE EXIT DEVICES 98EO-F-425-SNB</td>
<td>VO US26D</td>
<td></td>
</tr>
<tr>
<td>2 CLOSERS 4040 XP REG/PA TBWMS</td>
<td>LCN AL</td>
<td></td>
</tr>
<tr>
<td>2 FLOOR STOP 1258M</td>
<td>TR 626</td>
<td></td>
</tr>
<tr>
<td>2 RISER 1257R</td>
<td>TR 628</td>
<td></td>
</tr>
<tr>
<td>1 RAINDRIP 346C 76”</td>
<td>PE</td>
<td></td>
</tr>
<tr>
<td>2 WEATHERSTRIP 306AV 36”</td>
<td>PE</td>
<td></td>
</tr>
<tr>
<td>2 DORR BOTTOM SWEEP 3452AV 36”</td>
<td>PE</td>
<td></td>
</tr>
<tr>
<td>2 THRESHOLD 2005AV 36”</td>
<td>PE AL</td>
<td></td>
</tr>
</tbody>
</table>
HW – 7 (PAIR DOORS - STORAGE ROOM, MECHANICAL)

DOORS #105A, 208Aa

3 PAIR BUTTS MPB68 - 4 ½ X 4 ½ FTMS MK US26D
2 FLUSH BOLTS 557 RO US26D
1 MORTISE LOCK ML2057 x LWM CR 626
1 CLOSER 4040 XP REG/PA TBRST LCN AL
2 WALL BUMPERS 406 RO US32D
1 DUST PROOF STIKE 570 RO US26D
6 DOOR SILENCERS 608-RKW RO GREY

NOTE: ALSO PROVIDE A 10” HIGH METAL KICK PLATES FOR OPENING #105A – KICK PLATES SHALL BE EQUAL TO ASSA ABLOY “ROCKWOOD” #K1050; .050” THICKNESS, US26D/626 FINISH.

NOTE: ON EXISTING DOORS, ALSO PROVIDE A WRAP-AROUND EQUAL TO DON JO #4U2CW WITH ESCUTCHEON TRIM, FINISH TO MATCH LOCKSET.

HW – 8 (EXTERIOR EXIT)

DOORS #1VEST3B, 1STRW3B

1½ PAIR BUTTS MPB99 - 4 ½ X 4 ½ NRP FTMS MK 26D
1 EXIT DEVICES 98EO-425-SNB VO US26D
1 CLOSERS 4040 XP REG/PA TBWMS LCN AL
1 FLOOR STOP 1258M TR 626
1 RISER 1257R TR 628
1 RAINDRIP 346C 40” PE
1 WEATHERSTRIP 306AV 36” PE
1 DOOR BOTTOM SWEEP 3452AV 36” PE
1 THRESHOLD 2005AV 36” PE AL
3 DOOR SILENCERS 608-RKW RO GREY

HW – 9 (CLASSROOM – INTRUDER)

DOORS #113F, 113G, 208A, 208B

1½ PAIR BUTTS MPB68 - 4 ½ X 4 ½ MK 26D
1 MORTISE LOCK ML2052 x LWM CR 626
1 PERMANENT CORE 8000 KY3 VKC1 CR 626
1 CLOSER 4040 XP REG/PA TBWMS LCN AL
1 WALL BUMPER 406 RO US32D
3 DOOR SILENCERS 608-RKW RO GREY
1 KICK PLATE “ROCKWOOD” K1050 ASSA US26D/626

NOTE: ON EXISTING DOORS, ALSO PROVIDE A WRAP-AROUND EQUAL TO DON JO #4U2CW WITH ESCUTCHEON TRIM, FINISH TO MATCH LOCKSET.
HW – 10 (INTERIOR EXIT)

DOORS #1VEST3A, 1CORR4

<table>
<thead>
<tr>
<th>Item</th>
<th>Description</th>
<th>Quantity</th>
<th>Hardware Specifications</th>
</tr>
</thead>
<tbody>
<tr>
<td>½ PAIR BUTTS</td>
<td>MPB68 - 4 ½ X 4 ½ FTMS</td>
<td>1</td>
<td>MK 26D</td>
</tr>
<tr>
<td>FIRE EXIT DEVICE</td>
<td>98L-BE-F x 996-R/V-BE-425-SNB VO</td>
<td>1</td>
<td>US26D</td>
</tr>
<tr>
<td>CLOSER</td>
<td>4040 XP REG/PA TBWMS LCN AL</td>
<td>1</td>
<td>RO US32D</td>
</tr>
<tr>
<td>WALL BUMPER</td>
<td>406</td>
<td>1</td>
<td>PE BLACK</td>
</tr>
<tr>
<td>SMOKE SEAL</td>
<td>S88 BL 17’</td>
<td>1</td>
<td></td>
</tr>
</tbody>
</table>

HW – 11 (SINGLE ALUMINUM ENTRANCE/EXIT)

DOORS #113F, 113G, 108L, 211, 216A, 237A, 238A, 251A

<table>
<thead>
<tr>
<th>Item</th>
<th>Description</th>
<th>Quantity</th>
<th>Hardware Specifications</th>
</tr>
</thead>
<tbody>
<tr>
<td>PERMANENT CORE</td>
<td>8000 KY3 VKC1 CR 626</td>
<td>1</td>
<td></td>
</tr>
</tbody>
</table>

REMAINDER OF HARDWARE BY ALUMINUM ENTRANCE SUPPLIER

HW – 12 (PAIR ALUMINUM ENTRANCE/EXIT)

DOORS #1VESTA, 1VESTB, 1VESTC, 1VESTD

<table>
<thead>
<tr>
<th>Item</th>
<th>Description</th>
<th>Quantity</th>
<th>Hardware Specifications</th>
</tr>
</thead>
<tbody>
<tr>
<td>PERMANENT CORES</td>
<td>8000 KY3 VKC1 CR 626</td>
<td>2</td>
<td></td>
</tr>
</tbody>
</table>

REMAINDER OF HARDWARE BY ALUMINUM ENTRANCE SUPPLIER

END OF SECTION
REMOVE EXISTING WINDOW AND CREATE AN OPENING LARGE ENOUGH TO ALLOW FOR CONTRACTOR TO TRANSPORT MATERIAL INTO THE LIBRARY TYP. ON EACH LEVEL

ALTERNATE #4

ALL STONE CLADDING TO BE REMOVED. CAREFULLY REMOVE AND SAVE AS REQUIRED FULL STONE CLADDING PIECES FOR REINSTALLATION. SEE FLOOR PLANS FOR LOCATIONS WHERE STONE CLADDING IS BEING REUSED.

EXISTING HANDRAILS TO BE REMOVED. NEW COMPLIANT RAILING SYSTEM TO BE INSTALLED.

EXISTING HANDRAILS TO BE REMOVED. NEW COMPLIANT RAILING SYSTEM TO BE INSTALLED.

PROJECTED DATE OF COMPLETION

PHASE I - WORK TO BE COMPLETED IN 2018

PHASE II - WORK TO BE COMPLETED IN 2019

NOT IN SCOPE

FEC FIRE EXTINGUISHER CABINETS - DEMO

MEP ENGINEER:

1300 SUMMIT AVE, SUITE 500
FORT WORTH, TX, 76102
T: 214 - 420 - 9111
SUMMIT CONSULTANTS

STRUCTURAL ENGINEER:

107 N. GOLIAD STREET, SUITE 204
ROCKWALL, TX , 75087
T: 214 - 293 - 2503
RTP STRUCTURAL

IT / AV CONSULTANT:

1300 SUMMIT AVE, SUITE 500
FORT WORTH, TX, 76102
T: 214 - 420 - 9111
SUMMIT CONSULTANTS

ASSOCIATE ARCHITECT

4724 OLD JACKSBORO HWY.
WICHITA FALLS, TX, 76302
T: 940 - 767 - 1421
HARPER PERKINS ARCHITECTS

ARCHITECT OF RECORD:

HOLZMAN MOSS BOTTINO
ARCHITECTURE

WWW.HOLZMANMOSSBOTTINO.COM

ARCHITECT:

8/7/2018 10:28:13 AM

MIDWESTERN STATE UNIVERSITY WICHITA FALLS, TEXAS

100% CD SUBMISSION

THIRD FLOOR DEMOLITION PLAN

THIRD FLOOR DEMOLITION PLAN

SCALE: 1/8" = 1'-0"
**WINDOW TYPES**

G1 1/2 INCH LAMINATED CLEAR GLASS

G2 1/2 INCH DICHROIC LAMINATED GLASS SATIN FINISH, LOW REFLECTIVITY - ALTERNATE #3

G3 SAFETY GLAZING: 1/2 INCH, CLEAR TEMPERED GLASS

G4 SAFETY GLAZING: 1/2 INCH DICHROIC TEMPERED GLASS

G5 INSULATED GLAZING UNIT

G6 INSULATED GLAZING UNIT

**GENERAL GLAZING NOTES:**

1. REFER TO INTERIOR ELEVATION SHEETS FOR MORE INFO.

2. REFER TO FLOOR PLANS FOR QUANTITY OF NEW INTERIOR WINDOWS.

3. REFER TO SPEC SECTION 088000 - GLASS AND GLAZING FOR GLAZING TYPES.

**WINDOW ELEVATIONS**

**SCALE: 3/8" = 1'-0"**

<table>
<thead>
<tr>
<th>FIRST FLOOR</th>
<th>SECOND FLOOR</th>
</tr>
</thead>
</table>

**WINDOW / WINDOW SHADE SCHEDULE**

**SCALE: 3/8" = 1'-0"**

<table>
<thead>
<tr>
<th>STOREFRONT</th>
<th>WINDOW SHADE</th>
</tr>
</thead>
</table>

**SEAL:**

**MEP ENGINEER:**

1300 SUMMIT AVE, SUITE 500
FORT WORTH, TX, 76102
T: 214-420-9111
SUMMIT CONSULTANTS

**STRUCTURAL ENGINEER:**

107 N. GOLIAD STREET, SUITE 204
ROCKWALL, TX, 75087
T: 214-293-2503
RTP STRUCTURAL

**IT / AV CONSULTANT:**

1300 SUMMIT AVE, SUITE 500
FORT WORTH, TX, 76102
T: 214-420-9111
SUMMIT CONSULTANTS

**ARCHITECT OF RECORD:**

HOLZMAN MOSS BOTTINO ARCHITECTURE

WWW.HOLZMANMOSSBOTTINO.COM

90 BROAD STREET, SUITE 1803
NEW YORK, NEW YORK 10004
T: 212-465-0808

**MSU - MOFFETT LIBRARY RENOVATION**

MIDWESTERN STATE UNIVERSITY WICHITA FALLS, TEXAS

100% CD SUBMISSION PHASE II