1.0 NOTICE TO ALL BIDDERS AND PLANHOLDERS

The Contract Documents for the above-referenced Project are modified as set forth in this Addendum. The original Contract Documents and any previously issued addenda remain in full force and effect, except as modified by this Addendum, which is hereby made part of the Contract Documents. Bidder shall take this Addendum into consideration when preparing and submitting a bid, and shall acknowledge receipt of this Addendum in the space provided on the Bid Form.

2.0 BID SUBMITTAL DEADLINE

The bid submittal deadline has been changed as noted here and modifies the deadline in Section 00 11 00 of the Specifications. The new bid submittal deadline is December 15, 2020 at 2:00 p.m. for Part I of the Bid Form and is December 15, 2020 at 3:00 p.m. for Part II of the Bid Form.

3.0 SPECIFICATIONS

<table>
<thead>
<tr>
<th>Item</th>
<th>Section No.</th>
<th>Description of Change</th>
</tr>
</thead>
<tbody>
<tr>
<td>3.1</td>
<td>00 11 00</td>
<td>Replace the third paragraph in the ADVERTISEMENT FOR BIDS in its entirety with the following language:</td>
</tr>
</tbody>
</table>
|       |             | "Part I of the Bid Form will be received up to 2:00 p.m. on December 15, 2020, and Part II of the Bid Form will be received up to 3:00 p.m. on December 10, 2020. Bids received after the date and hour stated above will not receive consideration. Bids will then be publicly opened and read aloud via Zoom Version 5.0 (required) (Join Zoom Meeting: https://link.edgepilot.com/s/05c22c0a/sBtxc8DKE0GVBa2hdxJABQ?u=https://washington.zoom.us/j/99532733425; Meeting ID: 995 3273 3425)
|       |             | One tap mobile +12532158782,,99532733425# US (Tacoma)
|       |             | +12063379723,,99532733425# US (Seattle)" |
| 3.2   | 00 73 04    | Replace section 00 73 04 SUPPLEMENTAL CONDITIONS TO THE GENERAL CONDITIONS in its entirety with the attached section 00 73 04 SUPPLEMENTAL CONDITIONS TO THE GENERAL CONDITIONS, dated December 2, 2020. |
| 3.3   | 07 54 00    | Add the following item to 07 54 00 PVC MEMBRANE ROOFING, section 2.3, paragraph B as an acceptable manufacturer/product: |
|       |             | "3) Duro-Last 80-mil White & Gray Fully Adhered Duro-Tuff PVC Roofing Membrane System" |
| 3.4   | 08 71 00    | Replace section 08 71 00 DOOR HARDWARE in its entirety with the attached section 08 71 00 DOOR HARDWARE, dated December 2, 2020. |
3.0 SPECIFICATIONS

<table>
<thead>
<tr>
<th>Item</th>
<th>Section No.</th>
<th>Description of Change</th>
</tr>
</thead>
<tbody>
<tr>
<td>3.5</td>
<td>12 35 53.13</td>
<td>Add the following item to 12 35 53.13 METAL LABORATORY CASEWORK, section 2.1, paragraph A, as an acceptable manufacturer/product:</td>
</tr>
</tbody>
</table>

"3. H2I Group - Bedcolab Metal Casework with Forte Inset
Brad Johnson, H2I Group
22121 17th Ave SE, Suite E-108
Bothell, WA, 98021
206 379 7963"

| 3.6  | 23 50 00   | Add the following acceptable manufacturer to the list included in 23 50 00 FAN FILTER UNITS, section 2.1, paragraph D, first sentence: |

"Manufacturer: Provide custom fan filter units by Price, Envirco, or Titus."

4.0 DRAWINGS

<table>
<thead>
<tr>
<th>Item</th>
<th>Drawing No.</th>
<th>Description of Change</th>
</tr>
</thead>
<tbody>
<tr>
<td>4.1</td>
<td>A0.21</td>
<td>Replace sheet A0.21 SCHEDULES - DOOR, ROOM in its entirety with the attached sheet A0.21 SCHEDULES, DOOR, ROOM dated 12/02/2020 (changes are clouded)</td>
</tr>
<tr>
<td>4.2</td>
<td>A2.01</td>
<td>Add the following item and language to the GENERAL NOTES on sheet A2.01 LEVEL 1 PLAN:</td>
</tr>
</tbody>
</table>

17. EXISTING FREEZERS TO REMAIN IN USE DURING CONSTRUCTION IN BOTH ROOMS 190 & 198. IN AREAS WHERE CONSTRUCTION ACCESS IS REQUIRED, SPECIFIC FREEZERS CAN BE TAKEN OFFLINE OR SHIFTED TO ALLOW ACCESS OR MAY BE RELOCATED TEMPORARILY ON AN AS-NEEDED BASIS IN COORDINATION WITH THE OWNER. OWNER ACCESS TO OPERATING FREEZERS IS ALSO REQUIRED AT A TIME AND IN A MANNER TO BE NEGOTIATED WITH THE CONTRACTOR AT THE START OF CONSTRUCTION.

| 4.3  | A2.50       | Add the following item and language to the GENERAL NOTES on sheet A2.51 LEVEL 1 RCP: |

"12. THE CONTRACTOR SHALL MODIFY EXISTING WET-PIPE SPRINKLER SYSTEM AS REQUIRED TO ACHIEVE THE MINIMUM REQUIRED COVERAGE AND HEAD LOCATIONS WITHIN THE PRIMARY WORK AREA AND/OR IN ROOMS WHERE CEILING CHANGES ARE INDICATED OR REQUIRED TO COMPLETE THE WORK. REFER TO SECTION 211313 FOR RELEVANT WET-PIPE SPRINKLER SYSTEM PERFORMANCE CRITERIA. "

| 4.4  | A2.51       | Replace sheet A2.51 LEVEL 1 RCP in its entirety with the attached sheet A2.51 LEVEL 1 RCP dated 12/02/2020 (changes are clouded) |
### 4.0 DRAWINGS

<table>
<thead>
<tr>
<th>Item</th>
<th>Drawing No.</th>
<th>Description of Change</th>
</tr>
</thead>
<tbody>
<tr>
<td>4.5</td>
<td>A2.51</td>
<td>Add the following language to the GENERAL NOTES on sheet A2.51 LEVEL 1 RCP:</td>
</tr>
<tr>
<td></td>
<td></td>
<td>“12. THE CONTRACTOR SHALL MODIFY EXISTING WET-PIPE SPRINKLER SYSTEM AS REQUIRED TO ACHIEVE THE MINIMUM REQUIRED COVERAGE AND HEAD LOCATIONS WITHIN THE PRIMARY WORK AREA AND/OR IN ROOMS WHERE CEILING CHANGES ARE INDICATED OR REQUIRED TO COMPLETE THE WORK. REFER TO SECTION 211313 FOR RELEVANT WET-PIPE SPRINKLER SYSTEM PERFORMANCE CRITERIA. “</td>
</tr>
<tr>
<td>4.6</td>
<td>AD2.01</td>
<td>Replace sheet AD2.01 DEMO LEVEL 1 FLOOR PLAN in its entirety with the attached sheet AD2.01 DEMO LEVEL 1 FLOOR PLAN dated 12/02/2020 (changes are clouded)</td>
</tr>
<tr>
<td>4.7</td>
<td>AD2.51</td>
<td>Replace sheet AD2.51 DEMO LEVEL 1 RCP in its entirety with the attached sheet AD2.51 DEMO LEVEL 1 RCP dated 12/02/2020 (changes are clouded)</td>
</tr>
<tr>
<td>4.8</td>
<td>LF2.01</td>
<td>Replace sheet LF2.01 EQUIPMENT PLANS in its entirety with the attached sheet LF2.01 EQUIPMENT PLANS dated 12/02/2020 (changes are clouded)</td>
</tr>
<tr>
<td>4.9</td>
<td>M0.03</td>
<td>Replace sheet M0.03 SCHEDULES in its entirety with the attached sheet M0.03 SCHEDULES dated 12/01/2020 (changes are clouded)</td>
</tr>
<tr>
<td>4.10</td>
<td>M2.01</td>
<td>Replace sheet M2.01 LEVEL 1 PLAN – MECHANICAL in its entirety with the attached sheet M2.01 LEVEL 1 PLAN – MECHANICAL dated 12/01/2020 (changes are clouded)</td>
</tr>
<tr>
<td>4.11</td>
<td>M2.02</td>
<td>Replace sheet M2.02 LEVEL 2 PLAN - MECHANICAL in its entirety with the attached sheet M2.02 LEVEL 2 PLAN - MECHANICAL dated 12/01/2020 (changes are clouded)</td>
</tr>
<tr>
<td>4.12</td>
<td>M6.01</td>
<td>Replace sheet M6.01 CONTROLS in its entirety with the attached sheet M6.01 CONTROLS dated 12/01/2020 (changes are clouded)</td>
</tr>
<tr>
<td>4.13</td>
<td>E2.01</td>
<td>Replace the language in KEYED NOTES – ITEM #9 on sheet E2.01 LEVEL 1 PLAN – ELECTRICAL in its entirety with the following language:</td>
</tr>
<tr>
<td></td>
<td></td>
<td>9. PROVIDE LEGRAND 2-COMPARTMENT STEEL POWER POLE OR EQUIVALENT TO CENTER ISLAND TO RUN POWER AND DATA.”</td>
</tr>
</tbody>
</table>
## 5.0 QUESTIONS AND ANSWERS

The following questions and answers are provided as a matter of information to clarify issues raised about the Contract Documents. To the extent that changes to the Contract Documents are required based on the questions received, the Contract Documents have been modified as noted above in the Specifications and Drawings sections of this Addendum.

<table>
<thead>
<tr>
<th>Item</th>
<th>Questions and Answers</th>
</tr>
</thead>
</table>
| 5.1  | Question: For the power strip shown in #330 Height Adjustable Tables, please confirm if the power strip comes with tables as OFCI, or electrician supposed to provide this strip. If to be provided by contractor, please provide model/length info for contractor’s bid.  
Answer: Refer to detail 9/A9.01 typical detail for the scope to be included for each in-contract lab table. Refer to LF2.02 for table length. |
| 5.2  | Question: Please provide information on desired power poles. Include manufacturer or other product data if available.  
Answer: Refer to item 4.13 above. |
| 5.3  | Question: Bid Form 00 41 00 shows Part 1 is due no later than 2:00 pm but Advertisement for Bids 00 11 00 shows 3:00 pm. Please verify bid due date and time.  
Answer: This has been corrected. Refer to item 3.1 above. |
| 5.4  | Question: Will the Unistrut Support System at Freezers & Casework systems require a professional engineer to design/approve?  
Answer: The Unistrut seismic restraint system shown on sheets A8.01 & A8.03 has been reviewed by a licensed engineer. |
| 5.5  | Question: No Fire Sprinkler Drawings were found. Please confirm there is no modification to the existing system.  
Answer: There are no available record drawings of the existing sprinkler system. Refer to Addendum 2 item 4.3 & 4.5 above regarding modifications required to the existing system. |
<table>
<thead>
<tr>
<th>Question</th>
<th>Answer</th>
</tr>
</thead>
<tbody>
<tr>
<td>The lab sink and fixtures in Room 193 (Mass Spec Lab) are listed as OFCI on the architectural/lab drawings. Plumbing drawings say to provide and list out all the models. Please confirm these are OFCI and no list if required.</td>
<td>Lab sinks and fixtures in room 193 are OFCI and will be provided by the Owner’s lab vendor. Refer to items 4.1, 4.2 &amp; 4.3 below for additional information on OFCI items.</td>
</tr>
<tr>
<td>Please confirm calendar days to complete Room 198</td>
<td>92 calendar days from NTP per 00 73 01.</td>
</tr>
<tr>
<td>Please provide a specimen Builder’s Risk Policy for review.</td>
<td>Copies of the Builder’s Risk Specimen are not provided. It can be reviewed at the UW’s Builder’s Risk Office by making an appointment with the Builder’s Risk Office.</td>
</tr>
<tr>
<td>Confirm if any structural support required at the 2nd floor slab for reinforcing the new duct penetration. None shown on 6/A7.01.</td>
<td>The vertical ductwork includes a support flange at the penetration to bear on the opening, and horizontal support via the wall bracket per details 1/A7.01, 2/A7/01, 3/A7.01 and 4/A.701. No other structural reinforcing of the slab opening is indicated.</td>
</tr>
<tr>
<td>Who is the existing building fire alarm system provided by?</td>
<td>The existing building fire alarm is Simplex/JCI.</td>
</tr>
<tr>
<td>Will owner furnished items be delivered to site?</td>
<td>Yes. OFCI and OFOI items will be delivered to the project site.</td>
</tr>
</tbody>
</table>
| 5.12 | Question: Which spec of lab casework will be provided for Owner Furnished items?  
Answer: Owner furnished fume hood, polypropylene hood, and lab casework in room 193 (designated as OFCI) will be provided by Thermo Fisher Scientific. Casework to be provided by their casework subcontractor Laboratory Builders INC (LBI). Refer to items 6.1, 6.2 & 6.3 below for additional information on OFCI items. |
| 5.13 | Question: Will existing lab spaces, lab benches, freezers be decommissioned (sanitized) prior to start of construction activities?  
Answer: Yes, existing lab spaces and equipment to remain will be decommissioned and/or sanitized prior to start of construction activities. |
| 5.14 | Question: During the job walk, it was stated that Room 180 was a priority completion room. The plans show a room 180A but not 180. Please confirm that 180A is the priority room.  
Answer: Correct. |
| 5.15 | Question: Will existing freezers in freezer rooms be removed prior to project start?  
Answer: Refer to item 4.2 above. |
| 5.16 | Question: Are existing freezers still in use for other lab users during construction?  
Answer: Refer to item 4.2 above. |
| 5.17 | Question: In room 198, the ceiling space is very congested and in some locations attaching to the top may not be possible. Is there an option for securing to the floor?  
Answer: No. |
| 5.18 | Question: Please confirm the mobile tables are being manufactured with wire mold, receptacles, and 6’ plug strip in room 193.  
Answer: Refer to OFCI shop drawings included below for reference (Item 6.3). |
ADDENDUM #2
Date of Addendum: December 2, 2020
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5.19 Question:
The finish schedule on A0.21 notes all walls within room 191 and 196 being painted, but no painting for the ceiling. Page A2.51 shows there for be no ceiling work within both rooms 191 and 196. Please confirm the intent is to only paint the walls within rooms 191 and 196 and ceilings are to be left in existing condition.

Answer:
Confirmed. Refer to sheet A2.51 for ceiling finish scope.

5.20 Question:
The specifications list Thermoplastic membrane roofing and I was wondering if this is a patch job or a fully adhered recover. It appears to be a patch project around the electrical and mechanical outlets but I just wanted to confirm this.

Answer:
Confirmed. Refer to keynotes 514 on sheet A2.04 and 513 on sheet A2.03 for approximate repair/patching extents.

5.21 Question:
I was hoping to get some clarification on some of the existing electrical gear that is already installed. Per the one-line on electrical sheet E4.01 we are to make some modifications to existing panel, the panel schedules on sheets E5.01, E5.02. Can I find out what manufactures these panels are?

Answer:
Existing electrical panels are manufactured by Square D.

5.22 Question:
Please advise on estimated delivery dates or timeline for the OFCI casework and fume hoods.

Answer:
The anticipated completion of the Owner review process is 12/18/2020. Below are estimate lead times provided by the vendor, for reference only, based on this date:
- Metal Laboratory Casework 193: ~8 weeks upon shop drawing approvals
- Labconco Fume Hood: 60 days upon shop drawing approvals
- Polypropylene Nuaire Hood: ~120 Days max upon shop drawing approvals

6.0 INFORMATION
The following item(s) are provided as a matter of information only to all bidders and plan holders and do not modify or become part of the Contract Documents.

<table>
<thead>
<tr>
<th>Item</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>6.1</td>
<td>LABORATORY FUME HOOD (OFCI) - Reference shop drawing of the proposed LABCONCO 6’ Protector XStream Laboratory Hood (for reference only)</td>
</tr>
<tr>
<td>6.2</td>
<td>POLYPROPYLENE FUME HOOD (OFCI) - Reference drawing of the proposed NuAire NU-164-630 polypropylene hood (shop drawings of custom unit to be provided at a future date)</td>
</tr>
</tbody>
</table>
## ADDENDUM #2
Date of Addendum: December 2, 2020
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| 6.3 | ROOM 193 LAB TABLES AND MODULAR STEEL LABORATORY CASEWORK (OFCI) - LBI metal laboratory casework reference submittal for Room 193 including proposed OFCI items (for reference only) |

END OF ADDENDUM
These Supplemental Conditions form a part of, and are incorporated in, the Contract Documents and modify, delete, add, and replace provisions of the General Conditions. Provisions not altered remain in effect. All terms defined elsewhere in the Contract Documents shall have the same meaning in these Supplemental Conditions.

00 73 01 TIME OF COMPLETION AND LIQUIDATED DAMAGES

The Work shall be commenced on the effective date specified in the Notice to Proceed and shall be substantially complete within a period not to exceed:

(162) One Hundred Sixty-Two calendar days from Notice to Proceed for rooms 190, 191, 194, 196, 2295, 2297, 2299

(92) Ninety-Two calendar days from Notice to Proceed for Room 180, and 193.

Failure to achieve Substantial Completion of the Work within the time provided, Contractor shall pay Owner $1,000 for each calendar day from the date when Substantial Completion should have been achieved to the date Substantial Completion is actually achieved. The provisions of the General Conditions section 3.07, for liquidated damages, remain in effect.

00 73 02 CONTRACTOR'S LIABILITY INSURANCE

Delete paragraph 2.01D and replace it with the following language:

“Owner as Additional Insured: All insurance coverages shall name King County and the University of Washington, their boards, their officers, agents and employees, as an additional insured with respect to liability arising out of work performed by Contractor, and an additional insured endorsement to the policy must be provided to the Owner. All insurance coverages shall be endorsed to be primary and non-contributory with any insurance maintained by the University of Washington, provide a waiver of any rights of subrogation against the University of Washington, and contain a severability of interest provision in favor of the University of Washington, and all insurance certificates shall evidence full compliance with the enumerated requirements. If the contract amount, including alternates, is less than $5 million, the primary and non-contributory endorsement is not mandatory.”

Add new item E to Section 2.01 as follows:

Products Completed Operations Additional Insured. The Contractor’s CGL insurance must include the King County, and the University of Washington, their boards, their officers, agents, and employees as an additional insured status on ISO CG 20 10 11 85 or CG 20 37 endorsement, or by an equivalent policy or endorsement provisions. The Product Completed Operations additional insured status for the Owner must remain in effect for not less than 6 years following Final Completion.
00 73 03 COVERAGE LIMITS

Not Used

00 73 04 BUILDER’S RISK

Delete Section 2.06 A and B and replace with the following new Section 2.06 A:

Owner will purchase and maintain Builder’s Risk property insurance in the amount of the Contract Sum including all Change Orders for the entire Work on a replacement cost basis until Substantial Completion. Contractor shall be responsible for all losses up to the policy deductible amount of $5,000 per occurrence for projects valued at $500,000 or less; and $10,000 per occurrence for projects valued at more than $500,000. A specimen policy is available for inspection. Contractor is not required to obtain Builder’s Risk property insurance. All other provisions of the General Conditions Section 2.06, Builder’s Risk, remain in effect except that Architects and Engineers (A/E’s) and A/E’s Subconsultants are deleted from paragraph C.

If the Contractor believes it has a loss that is covered by Builder’s Risk/Property Insurance, and it is likely to exceed the policy deductible, the Contractor shall notify the Owner within 48 hours.

In Section 2.06, delete the following from paragraph C: “A/E, A/E’s subconsultants” and renumber paragraph C as paragraph B.

00 73 05 PARTNERING

A. Not used

00 73 06 CLAIMS AND DISPUTE RESOLUTION

A. Not Used

00 73 07 PERMITS REQUIRED

A. Electrical Permits
B. Sprinkler Permits
C. Street-Use Permits (crane pick)
D. All other permits required to complete the work and obtain Certificate of Occupancy.

00 73 08 ENVIRONMENTAL MITIGATION

A. Not Used.
00 73 09 FINAL PAYMENT

A. Not Used.

00 73 10 APPRENTICESHIP UTILIZATION REQUIREMENTS

10.12 APPRENTICE UTILIZATION REQUIREMENTS

A. The Contractor shall ensure that at least 15% of the total labor hours utilized on the project are performed by apprentices registered with the Washington State Apprenticeship and Training Council.

1. Total labor hours include additional hours worked as a result of change orders.

2. Total labor hours exclude hours worked by foremen, superintendents, supervisors, owners, and workers who are not subject to prevailing wage requirements. However, total labor hours shall include the hours worked by supervisors, foremen, and superintendents if it is determined they are subject to prevailing wage requirements pursuant to Washington Administrative Code (WAC) 296-127-015.

3. Total labor hours includes all hours worked by the Contractor and all subcontractors on the Project.

B. The Contractor shall meet or exceed the apprentice utilization requirements of the Contract Documents on all labor hours on the Project. The Owner has determined a monetary incentive of $500 for meeting the goals, and a monetary penalty of $200 for not meeting the goals.

C. The Contractor shall include the apprentice utilization requirements of Paragraph A, above, in all subcontracts executed for the Project.

D. If, during the term of the Contract, the Contractor determines that it will be unable to meet the percentage utilization requirement in Paragraph A, above, the Contractor may make a written request to the Owner to reduce the required percentage. The request shall include documentation of:

1. The demonstrated lack of availability of apprentices in specific geographic areas; and/or

2. A disproportionately high ratio of material costs to labor hours, which does not make feasible the required minimum levels of apprentice participation; and/or

3. Participating contractors have demonstrated a good faith effort to comply with the requirements of RCW 39.04.300 and 39.04.310.

E. The Owner shall evaluate the request, and if appropriate, a change order shall be prepared by the Owner reducing the utilization requirement.

F. With its monthly Application for Payment, the Contractor shall submit the Apprentice and Journey Level Worker Utilization Report on the form in Appendix A.

00 311 BEE REQUIREMENTS
A. Not Used.

END OF SECTION
PART 1 - GENERAL

1.1 SECTION INCLUDES

A. Commercial grade mechanical and electrified door hardware for:
   1. Swinging Doors
   2. Field verification, preparation and modification of existing doors and frames for the installation of new hardware.

B. Exclusions:
   1. Permanent cylinders for door hardware are N.I.C. and shall be provided by Owner.
   2. Unless specifically listed in hardware sets, hardware is not specified in this section for:
      a. Windows
      b. Cabinets (casework), including locks for cabinets.
      c. Signage
      d. Toilet Accessories

1.2 REFERENCES

A. American National Standards Institute – ANSI 156.18 – Materials and Finishes.
B. ANSI A117.1 – Accessible and Usable Buildings and Facilities.
C. ADA – Americans with Disabilities Act of 2010, or most recent version
D. BHMA – Builders Hardware Manufacturers Association
E. NFPA – National Fire Protection Association
F. UL – Underwriters Laboratories
G. WHI – Warnock Hersey Incorporated
I. NFPA 70 - National Electrical Code.
J. NFPA 80 - Fire Doors and Windows.
L. NFPA 105 - Installation of Smoke Door Assemblies.
M. State Building Codes, Local Amendments.

1.3 SUBMITTALS

A. Reference Division 1 section “Submittal Procedures” for Confirmation Notice Submittal requirements, if applicable, in lieu of product literature and samples.
B. Product Data: For each product indicated.
C. Samples: For each exposed finish.
D. Door Hardware Schedule: Organized into door hardware sets indicating type, style, function, size, label, hand, manufacturer, fasteners, location, and finish of each door hardware item. Include description of each electrified door hardware function, including sequence of operation.

E. Product certificates.

1.4 QUALITY ASSURANCE

A. Supplier Qualifications: Person who is or employs a qualified DHI Architectural Hardware Consultant, who is available at all reasonable times during the course of the Work to meet with the Owner, Architect or Contractor for project hardware consultation. Door Hardware shall be supplied by a recognized builder's hardware supplier who has been furnishing hardware in the same area as the project for a period of not less than five (5) years. The supplier shall maintain an inventory of replacement parts for future service to the Owner.

B. Shop Drawings: Details of electrified access control hardware indicating the following:
   1. Wiring Diagrams: Upon receipt of approved schedules, submit detailed system wiring diagrams for power, signaling, monitoring, communication, and control of the access control system electrified hardware. Differentiate between manufacturer-installed and field-installed wiring. Include the following:
      a. Elevation diagram of each unique access controlled opening showing location and interconnection of major system components with respect to their placement in the respective door openings.
      b. Complete (risers, point-to-point) access control system block wiring diagrams.

C. Keying Schedule: Keying schedule by Owner; not required for this project.

D. Templates: Obtain and distribute templates for doors, frames, and other work specified to be factory prepared for installing door hardware.

E. Standards: Comply with BHMA A156 series standards, Grade 1, unless Grade 2 is indicated.

F. Certified Products: Provide door hardware that is listed in BHMA directory of certified products.

1.5 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 warranty period.
   1. Warranty Period for locksets and panic devices: 3 years from date of Substantial Completion.
   2. Warranty Period for Manual Closers: 30 years from date of Substantial Completion.
PART 2 - PRODUCTS

2.1 MANUFACTURERS

A. Basis-of-Design Products: Except as otherwise indicated, products named for each door hardware item indicated in Door Hardware Groups schedule establish the basis of design. Provide the named product.

2.2 DOOR HARDWARE

A. Scheduled Door Hardware: Provide door hardware according to door hardware groups indicated.
   1. Reference "Hardware Sets" schedule at end of this Section.

2.3 PIVOTS AND HINGES

A. General: Except for hinges and pivots to be installed entirely (both leaves) into wood doors and frames, provide only template-produced units.

B. Hinge Base Metal: Unless otherwise indicated, provide the following:
   1. Exterior Hinges: Stainless steel, with stainless-steel pin.
   2. Interior Hinges: Stainless steel, with stainless-steel pin.

C. Non-removable Pins: Provide set screw in hinge barrel that prevents removal of pin while door is closed.

D. Screws: Phillips flat-head screws; screw heads finished to match surface of hinges.

E. Quantity: Provide hinges as scheduled, or if not scheduled provide as follows:
   1. Provide 1-1/2 pair butts for doors up to 3'-6" wide and 7'-0" tall.
   2. Provide 2 pair butts for doors 3'-6" and wider, and for doors taller than 7'-0".

F. Scheduled Manufacturer and Product: Ives 5BB series.

2.4 MECHANICAL LOCKS AND LATCHES

1. Manufacturers and Products:

2. Requirements:
   a. Provide mortise locks conforming to ANSI/BHMA A156.13 Series 1000, Grade 1, and UL Listed for 3 hour fire doors.
b. Indicators: Where specified, provide indicator window measuring a minimum 2 inch x 1/2 inch with 180 degree visibility. Provide messages color-coded with full text and/or symbols, as scheduled, for easy visibility.

c. Provide indicator above cylinder or emergency release for visibility while operating the lock that identifies the occupied/unoccupied status of the lock or latch.

d. Provide lock case that is multi-function and field reversible for handing without opening case. Cylinders: Refer to “KEYING” article, herein.


f. Provide standard ASA strikes unless extended lip strikes are necessary to protect trim.

g. Provide electrified options as scheduled in the hardware sets. Where scheduled, provide switches and sensors integrated into the locks and latches.

h. Provide motor based electrified locksets with electrified options as scheduled in the hardware sets and comply with the following requirements:
   1) Universal input voltage – single chassis accepts 12 or 24V DC to allow for changes in the field without changing lock chassis.
   2) Universal input voltage – single chassis accepts 12 or 24V DC to allow for changes in the field without changing lock chassis.
   3) Fail Safe/Fail Secure – changing mode between electrically locked (fail safe) and electronically unlocked (fail secure) is field selectable without opening the lock case.
   4) Low maximum current draw – maximum 0.4 amps to allow for multiple locks on a single power supply.
   5) Low holding current – maximum 0.01 amps to produce minimal heat, eliminate “hot levers” in electrically locked applications, and to provide reliable operation in wood doors that provide minimal ventilation and air flow.
   6) Request to Exit Switch (RX) –
      a) Modular Design – Provide electrified locks capable of using, adding or changing a modular RX switch without opening the lock case.
      b) Connections – provide quick-connect Molex system standard.
   7) Lever Trim: Solid brass, bronze, or stainless steel, cast or forged in design specified, with wrought roses and external lever spring cages. Provide thru-bolted levers with 2-piece spindles.
      a) Lever Design: Schlage 17
   8) Tactile Warning (Knurling): Where required by authority having jurisdiction. Provide on levers on exterior (secure side) of doors serving rooms considered to be hazardous.

2.5 EXIT DEVICES

A. Manufacturers:

1. Specified: VON DUPRIN 98 Series
B. Provide exit devices tested to ANSI/BHMA A156.3 Grade 1 and UL listed for Panic Exit or Fire Exit Hardware.

C. Cylinders: Refer to “KEYING” article, herein.

D. Provide touchpad type exit devices, fabricated of brass, bronze, stainless steel, or aluminum, plated to standard architectural finishes to match balance of door hardware.

E. Provide exit devices with deadlatching feature for security and for future addition of alarm kits and/or other electrified requirements.

F. Provide flush end caps for exit devices.

G. Provide exit devices with manufacturer’s approved strikes.

H. Provide exit devices cut to door width and height. Install exit devices at height recommended by exit device manufacturer, allowable by governing building codes, and approved by Architect.

I. Mount mechanism case flush on face of doors, or provide spacers to fill gaps behind devices. Where glass trim or molding projects off face of door, provide glass bead kits.

J. Provide cylinder or hex-key dogging as specified at non fire-rated openings.

K. Removable Mullions: 2 inches (51 mm) x 3 inches (76 mm) steel tube. Where scheduled as keyed removable mullion, provide type that can be removed by use of a keyed cylinder, which is self-locking when re-installed.

L. Provide factory drilled weep holes for exit devices used in full exterior application, highly corrosive areas, and where noted in hardware sets.

M. Provide electrified options as scheduled.

N. Provide exit devices with optional trim designs to match other lever and pull designs used on the project.

O. Tactile Warning (Knurling): Where required by authority having jurisdiction. Provide on levers on exterior (secure side) of doors serving rooms considered to be hazardous.

2.6 CLOSERS

A. Manufacturers: Specified: LCN 4040XP Series

B. Specified closers shall be provided with adjustable latch speed at 15 degrees.

C. Standards: Comply with the following:

D. Closers: BHMA A156.4.

2.7 ARCHITECTURAL TRIM

A. Manufacturers:

   1. Specified: IVES
2. Approved: TRIMCO

B. Door Protective Trim

1. General: Door protective trim units to be of type and design as specified below or in the Hardware Sets.
   a. Size: Fabricate protection plates (kick, armor, or mop) not more than 2" less than door width (LDW) on stop side of single doors and 1" LDW on stop side of pairs of doors, and not more than 1" less than door width on pull side. Coordinate and provide proper width and height as required where conflicting hardware dictates. Height to be as specified in the Hardware Sets.
   b. Metal Protection Plates: ANSI/BHMA A156.6 certified metal protection plates (kick, armor, or mop), beveled on four edges (B4E), fabricated from the following:
      c. Stainless Steel: 300 series, 050-inch thick, with countersunk screw holes (CSK).
   d. Fasteners: Provide manufacturer's designated fastener type as specified in the Hardware Sets.
   e. Metal Door Edging: Door protection edging fabricated from a minimum .050-inch thick metal sheet, formed into an angle or "U" cap shapes, surface or mortised mounted onto edge of door. Provide appropriate leg overlap to account for protection plates as required. Height to be as specified in the Hardware Sets.

C. STOPS AND HOLDERS

1. Stops and Holders: Provide floor stops for doors, unless wall or other type stops are scheduled or indicated. Do not mount floor stops where they will impede traffic. Where floor or wall stops are not appropriate, provide overhead holders.
   a. Specified: IVES
   b. Approved: TRIMCO

D. OVERHEAD STOPS AND HOLDERS

1. Overhead Door Stops and Holders: ANSI/BHMA A156.6, Grade 1 certified overhead stops and holders to be surface or concealed types as indicated in Hardware Sets. Track, slide, arm and jamb bracket to be constructed of extruded bronze and shock absorber spring of heavy tempered steel. Provide non-handed design with mounting brackets as required for proper operation and function.
   a. Specified: GLYNN-JOHNSON
   b. Approved: ROCKWOOD

E. DOOR GASKETING AND THRESHOLDS

1. Door Gasketing: Provide continuous or sound gasketing on interior doors where indicated or scheduled. Provide noncorrosive fasteners for exterior applications and elsewhere as indicated.
   a. Specified: As indicated per hardware groups on the drawings.
   b. Approved: As indicated per hardware groups on the drawings.

2. Air Leakage: Not to exceed 0.50 cfm per foot (0.000774 cu. m/s per m) of crack length for gasketing other than for smoke control, as tested according to ASTM E 283.
4. Sound-Rated Gasketing: Assemblies that are listed and labeled, based on testing according to ASTM E 1408.
6. Thresholds: Of type scheduled or indicated.
7. Manufacturers:
   a. Specified: ZERO
   b. Approved: NATIONAL GUARD PRODUCTS

F. CYLINDERS AND KEYING
1. Cylinders: All locks shall be provided with construction cylinders.
2. All permanent cylinders and keys shall be provided by, and installed by, UW Facilities Services.
3. All construction cylinders to be returned to the Door Hardware supplier.

G. FABRICATION
1. Base Metals: Furnish metals of a quality equal to or greater than that of specified door hardware units and BHMA A156.18 for finishes. Do not furnish manufacturer's standard materials if different from specified standard.
2. Fasteners: Phillips flat-head screws with finished heads to match surface of door hardware, unless otherwise indicated. Provide steel machine or wood screws or steel through bolts for fire-rated applications.
3. Spacers or Sex Bolts: For through bolting of hollow metal doors.
4. Fasteners for Wood Doors: Comply with requirements of DHI WDHS.2, "Recommended Fasteners for Wood Doors."
5. Finishes: Comply with BHMA A156.18.

PART 3 - EXECUTION

3.1 EXAMINATION
A. Examine doors and frames, with Installer present, for compliance with requirements for installation tolerances, labeled fire door assembly construction, wall and floor construction, and other conditions affecting performance.
B. Proceed with installation only after unsatisfactory conditions have been corrected.

3.2 PREPARATION
A. Steel Doors and Frames: Comply with DHI A115 series.
B. Surface-Applied Door Hardware: Drill and tap doors and frames according to SDI 107.
C. Wood Doors: Comply with DHI A115-W series.
3.3 INSTALLATION

A. Mounting Heights: Mount door hardware units at heights indicated in following applicable publications, unless specifically indicated or required to comply with governing regulations:


2. Wood Doors: DHI WDHS.3, "Recommended Locations for Architectural Hardware for Wood Flush Doors." 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 work specified in Division 9 Sections. Do not install surface-mounted items until finishes have been completed on substrates involved.

3. Set units level, plumb, and true to line and location. Adjust and reinforce attachment substrates as necessary for proper installation and operation.

4. Drill and countersink units that are not factory prepared for anchorage fasteners. Space fasteners and anchors according to industry standards.

5. Thresholds: Set thresholds for exterior and acoustical doors in full bed of sealant.

3.4 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.

B. Door Closers: Adjust sweep period so that, from an open position of 70 degrees, the door will take at least 3 seconds to move to a point 3 inches (75 mm) from the latch, measured to the leading edge of the door.

C. Six-Month Adjustment: Approximately six months after date of Substantial Completion, Installer shall perform the following:

1. Examine and readjust each item of door hardware as necessary to ensure function of doors, door hardware, and electrified door hardware.

2. Consult with and instruct Owner's personnel on recommended maintenance procedures.

3. Replace door hardware items that have deteriorated or failed due to faulty design, materials, or installation of door hardware units.

3.5 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 door hardware is without damage or deterioration at time of Substantial Completion.
3.6 SCHEDULE OF FINISH HARDWARE

A. The hardware sets represent the design intent and direction of the owner and architect. They are should not be considered a detailed hardware schedule. Discrepancies, conflicting hardware and missing items should be brought to the attention of the architect with corrections made prior to the bidding process. Omitted items not included in a hardware set should be scheduled with the appropriate additional hardware required for proper application and functionality.

B. Hardware Sets

Hardware Group No. 1

For use on Door #s:
100F 193

Provide each SGL door(s) with the following:

<table>
<thead>
<tr>
<th>QTY</th>
<th>DESCRIPTION</th>
<th>CATALOG NUMBER</th>
<th>FINISH</th>
<th>MFR</th>
</tr>
</thead>
<tbody>
<tr>
<td>3</td>
<td>HINGE</td>
<td>5BB1HW 4.5 X 4.5 NRP</td>
<td>613</td>
<td>IVE</td>
</tr>
<tr>
<td>1</td>
<td>FIRE EXIT HARDWARE</td>
<td>QM-98-L-F-17</td>
<td>313</td>
<td>VON</td>
</tr>
<tr>
<td>1</td>
<td>SURFACE CLOSER</td>
<td>4040XP EDA</td>
<td>690</td>
<td>LCN</td>
</tr>
<tr>
<td>1</td>
<td>KICK PLATE</td>
<td>8402 10&quot; X 2&quot; LDW B-CS</td>
<td>613</td>
<td>IVE</td>
</tr>
<tr>
<td>1</td>
<td>WALL STOP</td>
<td>WS406/407CVX</td>
<td>613</td>
<td>IVE</td>
</tr>
<tr>
<td>1</td>
<td>GASKET SEAL SET</td>
<td>488S (PROVIDE AT RATED DOORS)</td>
<td>ZER</td>
<td></td>
</tr>
</tbody>
</table>

PERMANENT CYLINDER and CORE (PROVIDED BY UW FACILITIES SERVICES)

Hardware Group No. 2

For use on Door #s:
2299A

Provide each SGL door(s) with the following:

<table>
<thead>
<tr>
<th>QTY</th>
<th>DESCRIPTION</th>
<th>CATALOG NUMBER</th>
<th>FINISH</th>
<th>MFR</th>
</tr>
</thead>
<tbody>
<tr>
<td>3</td>
<td>HINGE</td>
<td>5BB1HW 4.5 X 4.5 NRP</td>
<td>613</td>
<td>IVE</td>
</tr>
<tr>
<td>1</td>
<td>PANIC HARDWARE</td>
<td>LD-QM-98-L-17</td>
<td>313</td>
<td>VON</td>
</tr>
<tr>
<td>1</td>
<td>SURFACE CLOSER</td>
<td>4040XP EDA</td>
<td>690</td>
<td>LCN</td>
</tr>
<tr>
<td>1</td>
<td>KICK PLATE</td>
<td>8400 10&quot; X 2&quot; LDW B-CS</td>
<td>613</td>
<td>IVE</td>
</tr>
<tr>
<td>1</td>
<td>WALL STOP</td>
<td>WS406/407CVX</td>
<td>613</td>
<td>IVE</td>
</tr>
<tr>
<td>3</td>
<td>SILENCER</td>
<td>SR64</td>
<td>GRY</td>
<td>IVE</td>
</tr>
</tbody>
</table>

PERMANENT CYLINDER and CORE (PROVIDED BY UW FACILITIES SERVICES)
Hardware Group No. 3
For use on Door #194:

Provide each SGL door(s) with the following:

<table>
<thead>
<tr>
<th>QTY</th>
<th>DESCRIPTION</th>
<th>CATALOG NUMBER</th>
<th>FINISH</th>
<th>MFR</th>
</tr>
</thead>
<tbody>
<tr>
<td>3</td>
<td>HINGES</td>
<td>PROVIDED BY FRP DOOR</td>
<td></td>
<td>SPE</td>
</tr>
<tr>
<td>1</td>
<td>PANIC HARDWARE</td>
<td>LD-QM-98-L-17</td>
<td>313</td>
<td>VON</td>
</tr>
<tr>
<td>1</td>
<td>SURFACE CLOSER</td>
<td>4040XP EDA</td>
<td>690</td>
<td>LCN</td>
</tr>
<tr>
<td>1</td>
<td>WALL STOP</td>
<td>WS406/407CVX</td>
<td>613</td>
<td>IVE</td>
</tr>
<tr>
<td>3</td>
<td>SILENCER</td>
<td>SR64</td>
<td></td>
<td>GRY</td>
</tr>
<tr>
<td></td>
<td>PERMANENT CYLINDER and CORE</td>
<td>(PROVIDED BY UW FACILITIES SERVICES)</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

Hardware Group No. 4
For use on Door #100E:

Provide each SGL door(s) with the following:

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<thead>
<tr>
<th>QTY</th>
<th>DESCRIPTION</th>
<th>CATALOG NUMBER</th>
<th>FINISH</th>
<th>MFR</th>
</tr>
</thead>
<tbody>
<tr>
<td>3</td>
<td>HINGE</td>
<td>5BB1HW 4.5 X 4.5 NRP</td>
<td>613</td>
<td>IVE</td>
</tr>
<tr>
<td>1</td>
<td>PANIC HARDWARE</td>
<td>LD-QM-98-L-17</td>
<td>313</td>
<td>VON</td>
</tr>
<tr>
<td>1</td>
<td>SURFACE CLOSER</td>
<td>4040XP EDA</td>
<td>690</td>
<td>LCN</td>
</tr>
<tr>
<td>1</td>
<td>WALL STOP</td>
<td>WS406/407CVX</td>
<td>613</td>
<td>IVE</td>
</tr>
<tr>
<td>3</td>
<td>SILENCER</td>
<td>SR64</td>
<td></td>
<td>GRY</td>
</tr>
<tr>
<td></td>
<td>PERMANENT CYLINDER and CORE</td>
<td>(PROVIDED BY UW FACILITIES SERVICES)</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>
**Hardware Group No. 5**

For use on Door #190:

Provide each SGL door(s) with the following:

<table>
<thead>
<tr>
<th>QTY</th>
<th>DESCRIPTION</th>
<th>CATALOG NUMBER</th>
<th>FINISH</th>
<th>MFR</th>
</tr>
</thead>
<tbody>
<tr>
<td>3</td>
<td>HINGE</td>
<td>5BB1HW 4.5 X 4.5 NR</td>
<td>613</td>
<td>IVE</td>
</tr>
<tr>
<td>1</td>
<td>ELECTRIC HINGE</td>
<td>5BB1HW 4.5 X 4.5 CON TW</td>
<td>613</td>
<td>IVE</td>
</tr>
<tr>
<td>1</td>
<td>ELECTRIC HINGE</td>
<td>302-03-03</td>
<td>00</td>
<td>ACS</td>
</tr>
<tr>
<td>1</td>
<td>WIRE HARNESS (TO ELEC LOCK)</td>
<td>CON-___P</td>
<td>00</td>
<td>SCE</td>
</tr>
<tr>
<td>1</td>
<td>WIRE HARNESS (TO POWER SUPPLY)</td>
<td>CON-6W</td>
<td>00</td>
<td>SCE</td>
</tr>
<tr>
<td>1</td>
<td>FIRE EXIT HARDWARE</td>
<td>QM-98-L-E996-17-FSE 24 VDC</td>
<td>313</td>
<td>VON</td>
</tr>
<tr>
<td>1</td>
<td>SURFACE CLOSER</td>
<td>4040XP EDA</td>
<td>690</td>
<td>LCN</td>
</tr>
<tr>
<td>1</td>
<td>KICK PLATE</td>
<td>8402 10&quot; X 2&quot; LDW B-CS</td>
<td>613</td>
<td>IVE</td>
</tr>
<tr>
<td>1</td>
<td>WALL STOP</td>
<td>WS406/407CVX</td>
<td>613</td>
<td>IVE</td>
</tr>
<tr>
<td>1</td>
<td>GASKET SEAL SET</td>
<td>488S</td>
<td></td>
<td>ZER</td>
</tr>
<tr>
<td>1</td>
<td>DOOR POSITION SWITCH</td>
<td>679-05 HM OR 679-05 WD</td>
<td></td>
<td>SCE</td>
</tr>
<tr>
<td>1</td>
<td>POWER SUPPLY</td>
<td>PS902 120/240 VAC</td>
<td></td>
<td>LGR</td>
</tr>
<tr>
<td></td>
<td>CARD READER</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>PERMANENT CYLINDER</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>and CORE</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

**Hardware Group No. 6**

For use on Door #2353:

Provide each SGL door(s) with the following:

<table>
<thead>
<tr>
<th>QTY</th>
<th>DESCRIPTION</th>
<th>CATALOG NUMBER</th>
<th>FINISH</th>
<th>MFR</th>
</tr>
</thead>
<tbody>
<tr>
<td>3</td>
<td>HINGE</td>
<td>5BB1HW 4.5 X 4.5</td>
<td>613</td>
<td>IVE</td>
</tr>
<tr>
<td>1</td>
<td>PUSH PLATE</td>
<td>8200 8&quot; X 16&quot;</td>
<td>613</td>
<td>IVE</td>
</tr>
<tr>
<td>1</td>
<td>PULL PLATE</td>
<td>8302 10&quot; 4&quot; X 16&quot;</td>
<td>613</td>
<td>IVE</td>
</tr>
<tr>
<td>1</td>
<td>SURFACE CLOSER</td>
<td>4040XP EDA</td>
<td>690</td>
<td>LCN</td>
</tr>
<tr>
<td>1</td>
<td>KICK PLATE</td>
<td>8400 10&quot; X 2&quot; LDW B-CS</td>
<td>613</td>
<td>IVE</td>
</tr>
<tr>
<td>1</td>
<td>WALL STOP</td>
<td>WS406/407CVX</td>
<td>613</td>
<td>IVE</td>
</tr>
<tr>
<td>3</td>
<td>SILENCER</td>
<td>SR64</td>
<td></td>
<td>GRY</td>
</tr>
</tbody>
</table>

**Hardware Group No. GATE_1**

For use on Door #187C:

Provide each SGL door(s) with the following:

<table>
<thead>
<tr>
<th>QTY</th>
<th>DESCRIPTION</th>
<th>CATALOG NUMBER</th>
<th>FINISH</th>
<th>MFR</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>NOTE: ALL HARDWARE BY GATE MANUFACTURER</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>
Hardware Group No. GATE_2

For use on Door #(s):
187A 187B

Provide each PR door(s) with the following:

QTY | DESCRIPTION | CATALOG NUMBER
--- |-------------|----------------
    |             | NOTE: ALL HARDWARE BY GATE MANUFACTURER

END OF SECTION
**DOOR SCHEDULE**

<table>
<thead>
<tr>
<th>ROOM</th>
<th>DOOR NO.</th>
<th>TYPE</th>
<th>WIDTH</th>
<th>HEIGHT</th>
<th>MATERIAL</th>
<th>FINISH</th>
<th>FRAME MATERIAL</th>
<th>FRAME FINISH</th>
<th>HEAD DETAIL</th>
<th>JAMB DETAIL</th>
<th>HINGE DETAIL</th>
<th>CLOSERS</th>
<th>HARDWARE GROUP</th>
<th>PANEL HARDWARE</th>
<th>NOTES</th>
</tr>
</thead>
<tbody>
<tr>
<td>100</td>
<td>D</td>
<td>SOLID CORE</td>
<td>7' - 0&quot;</td>
<td>3' - 0&quot;</td>
<td>STEEL</td>
<td>EPOXY PAINT</td>
<td>8/A8.02</td>
<td>5/A8.02</td>
<td>YES</td>
<td>GROUP 2</td>
<td>PANIC</td>
<td>GL-1</td>
<td>WAIF</td>
<td>90 MIN</td>
<td>EPOXY PAINTED-GWB</td>
</tr>
<tr>
<td>104</td>
<td>D</td>
<td>SOLID CORE</td>
<td>7' - 0&quot;</td>
<td>3' - 0&quot;</td>
<td>STEEL</td>
<td>EPOXY PAINT</td>
<td>8/A8.02</td>
<td>5/A8.02</td>
<td>YES</td>
<td>GROUP 2</td>
<td>PANIC</td>
<td>GL-1</td>
<td>WAIF</td>
<td>90 MIN</td>
<td>EPOXY PAINTED-GWB</td>
</tr>
<tr>
<td>150</td>
<td>A</td>
<td>SOLID CORE</td>
<td>7' - 0&quot;</td>
<td>3' - 0&quot;</td>
<td>STEEL</td>
<td>EPOXY PAINT</td>
<td>8/A8.02</td>
<td>5/A8.02</td>
<td>YES</td>
<td>GROUP 2</td>
<td>PANIC</td>
<td>GL-1</td>
<td>WAIF</td>
<td>90 MIN</td>
<td>EPOXY PAINTED-GWB</td>
</tr>
<tr>
<td>181</td>
<td>A</td>
<td>SOLID CORE</td>
<td>7' - 0&quot;</td>
<td>3' - 0&quot;</td>
<td>STEEL</td>
<td>EPOXY PAINT</td>
<td>8/A8.02</td>
<td>5/A8.02</td>
<td>YES</td>
<td>GROUP 2</td>
<td>PANIC</td>
<td>GL-1</td>
<td>WAIF</td>
<td>90 MIN</td>
<td>EPOXY PAINTED-GWB</td>
</tr>
<tr>
<td>205</td>
<td>C</td>
<td>REFRIGERATION</td>
<td>7' - 0&quot;</td>
<td>3' - 0&quot;</td>
<td>STEEL</td>
<td>EPOXY PAINT</td>
<td>8/A8.02</td>
<td>5/A8.02</td>
<td>YES</td>
<td>GROUP 2</td>
<td>PANIC</td>
<td>GL-1</td>
<td>WAIF</td>
<td>90 MIN</td>
<td>EPOXY PAINTED-GWB</td>
</tr>
</tbody>
</table>

**GENERAL NOTES**

1. Only 1 Door & Entry Stairwell:
   - Must meet the standard for accessibility unless the depth of 2' 6" to
     the interior line of the door is satisfied.
   - Door must meet the standard for accessibility unless the depth of 2' 6"
     to the interior line of the door is satisfied.
   - Door must meet the standard for accessibility unless the depth of 2' 6"
     to the interior line of the door is satisfied.
   - Door must meet the standard for accessibility unless the depth of 2' 6"
     to the interior line of the door is satisfied.

2. Door specifications for the following locations:
   - Only 1 Door & Entry Stairwell:
     - Must meet the standard for accessibility unless the depth of 2' 6"
       to the interior line of the door is satisfied.
   - Door must meet the standard for accessibility unless the depth of 2' 6"
     to the interior line of the door is satisfied.
   - Door must meet the standard for accessibility unless the depth of 2' 6"
     to the interior line of the door is satisfied.
   - Door must meet the standard for accessibility unless the depth of 2' 6"
     to the interior line of the door is satisfied.

**SAFETY GLAZING NOTES**

1. Only 1 Door & Entry Stairwell:
   - Must meet the standard for accessibility unless the depth of 2' 6"
     to the interior line of the door is satisfied.
   - Door must meet the standard for accessibility unless the depth of 2' 6"
     to the interior line of the door is satisfied.
   - Door must meet the standard for accessibility unless the depth of 2' 6"
     to the interior line of the door is satisfied.
   - Door must meet the standard for accessibility unless the depth of 2' 6"
     to the interior line of the door is satisfied.

**GLAZING TYPE SCHEDULE**

Col. 1: Tempered glass as indicated to building standards provided building standards complied with current code.
DEMO PLAN NOTES

1. ITEMS NOTED FOR REMOVAL ARE INDICATED TO ESTABLISH GENERAL SCOPE OF DEMO. CONTRACTOR TO FULLY VERIFY EXISTING CONDITIONS AND SHALL NOTIFY THE ARCHITECT PRIOR TO DEMO OF ANY ITEMS NOT INDICATED ON THE PLANS THAT MAY AFFECT THE WORK.

2. ITEMS NOTED FOR REMOVAL THAT ARE NOT INDICATED AS DEMOLISHED OR ARE INDICATED TO BE REMOVED ARE THE RESPONSIBILITY OF THE CONTRACTOR AND SHALL BE REMOVED OR FINISHED OFF TO THE ARCHITECT'S SATISFACTION AT THE CONTRACTOR’S COST TO THE ARCHITECT.

3. WHERE REMOVING FINISH FLOORING, INCLUDE REMOVAL OF EXISTING RESILIENT BASE.

4. EXISTING CONDITIONS AS COMPILED FROM RECORD DRAWINGS. CONTRACTOR TO FIELD VERIFY EXISTING CONDITIONS AND SHALL NOTIFY THE ARCHITECT PRIOR TO DEMO OF ANY ITEMS NOT INDICATED THAT MAY AFFECT THE WORK.

5. EXISTING CONDITIONS SHALL BE RECORDED TO LOCATE EXISTING PIPING OR ELECTRICAL AT CONTRACTOR’S COST.

6. CONTRACTOR TO REMOVAL TEMPORARY PIPING TO THE GREATEST EXTENT POSSIBLE, AND SHALL COORDINATE WITH THE OWNER REGARDING POTENTIAL IMPACTS TO ADJACENT OCCUPIED SPACES. THIS MAY REQUIRE WORK OUTSIDE OF THE PRIMARY WORK AREA THAT MAY BE AFFECTED BY CONSTRUCTION ACTIVITIES. THIS APPLIES TO ADJACENT LAB AREAS, AND VIVARIUMS.

7. CONTRACTOR TO FIELD VERIFY EXISTING CONDITIONS AND SHALL NOTIFY THE ARCHITECT PRIOR TO DEMO OF ANY ITEMS NOT INDICATED ON THE PLANS THAT MAY AFFECT THE WORK.

DEMO REFLECTED CEILING PLAN LEGEND

2 9/16" CEILING TILES, LIGHTING, GRILLES AND STORE FOR REINSTALLATION
DEMO PLAN KEYNOTE

(S) ELEMENT TO REMOVAL
(e) CEILING AREA TO BE REMOVED
AND STORED FOR REINSTALLATION
(e) ELEMENT TO REMAIN
(e) CEILING AREA TO REMAIN

SHEET KEYNOTES

AB

ORIGINAL SHEET SIZE 24" X 36"
ITEM 4.1: LABORATORY FUME HOOD (OFCI) - Reference shop drawing of the proposed LABCONCO 6’ Protector XStream Laboratory Hood (for reference only)
ITEM 4.2: POLYPROPYLENE FUME HOOD (OFCL) - Reference drawing of the proposed NuAire NU-164-630 polypropylene hood (shop drawings of custom unit to be provided at a future date)
ITEM 4.3: ROOM 193 LAB TABLES AND MODULAR STEEL LABORATORY CASEWORK (OFCI) - LBI metal laboratory casework reference submittal for Room 193 including proposed OFCI items (for reference only)