Addendum No. 2  
May 26, 2016

City University of New York  
Baruch College - Information Technology Building (ITB) Student Computer Lab Renovation  
Project No. BA044-12/DASNY 315809999

This Addendum is issued for the purpose of conveying the attached Questions and Answers, which include responses to the questions that were e-mailed to the CUNY Contracts Department. All information provided herein is made in good faith for information purposes only and does not in and of itself change the Solicitation. Changes to the Solicitation may only be made by formal amendment if and when required.

Contact: Christine Yoo, cuny.builds@cuny.edu

By signing in the space provided below, the Responder acknowledges receipt of this Addendum. This Addendum must be signed by an authorized representative of the Responder and submitted with the Response.

Name of Respondent

Name of Authorized Responder Representative  
Title  
Signature  
Date
Addendum No. 2
May 26, 2016

City University of New York
Baruch College - Information Technology Building (ITB) Student Computer Lab
Renovation
Project No. BA044-12/DASNY 315809999

The following Questions and Answers pertain to Project No. BA044-12/DASNY 315809999,
Baruch College - Information Technology Building (ITB) Student Computer Lab
Renovation:

This addendum, whether or not attached hereto, shall hereby be made part of the Bidding Documents, originally
dated February 16, 2016, the same as if originally bound thereto. All requirements of the original Bidding
Documents shall remain applicable except as specifically modified by this addendum.

This addendum consists of the following:

### REVISIONS TO ISSUED DRAWINGS

<table>
<thead>
<tr>
<th>REFERENCED DRAWING NO &amp; DRAWING NAME</th>
<th>DESCRIPTION OF REVISIONS</th>
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<tbody>
<tr>
<td>DM-101.00 SIXTH FLOOR DEMOLITION PLAN</td>
<td>Revised wording of Note 11 for clarification of window shade replacement scope.</td>
</tr>
<tr>
<td>A-801.00 SIXTH FLOOR FINISH PLAN</td>
<td>Revised work boundary on east side of computer lab to clarify scope of tile replacement in Vestibule 6V01. Revised floor finish information in room tag of Information Entrance 629.</td>
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### REVISIONS TO ISSUED SPECIFICATIONS

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<th>SPECIFICATION NO &amp; SPECIFICATION NAME</th>
<th>DESCRIPTION OF REVISIONS</th>
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<tr>
<td>SUPPLEMENTAL GENERAL CONDITIONS - SPEC TABLE OF CONTENTS</td>
<td>Added Spec Section 122413 to TOC</td>
</tr>
<tr>
<td>093013 CERAMIC TILING</td>
<td>Revised basis of design product information to match finish schedule.</td>
</tr>
<tr>
<td>122413 ROLLER WINDOW SHADES</td>
<td>Added spec section to describe roller shade’s basis of design product information and match information shown in accessory legend (sheet A-001).</td>
</tr>
<tr>
<td>RFI #</td>
<td>QUESTION (Q) &amp; ANSWER (A)</td>
</tr>
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<td>-------</td>
<td>---------------------------</td>
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</tbody>
</table>
| 1     | Q: How will the lab casework be purchased-by the contractor or by CUNY?  
A: There is no lab casework as this is not a lab project. The millwork shown in the bid documents, including, but not limited to, the information desk and printer alcove cabinets and countertops are to be provided by the contractor awarded this project. Refer to bid documents, including, but not limited to: A-101, A-501, A-502, and the A-70x series interior elevations. |
| 2     | Q: For the Use of Designated Elevators, please clarify, and how much or what will the base cost for the following –  
· Provide maintenance  
· Pay cost of maintenance  
· Pay cost of operation  
· Assume responsibility for injury to person (in relation to incident of malfunction/faulty elevator)  
A:  
· Provide maintenance  
The awarded contractor is not required to provide elevator maintenance. The elevators are maintained by Baruch; however, the contractor is to use the freight elevator only. See phasing plan A-004 for more information.  
· Pay cost of maintenance  
There is no charge to the awarded contractor for maintenance of the elevator equipment, however, the awarded contractor will be responsible for the protection of the cab. See phasing plan A-004 for more information.  
· Pay cost of operation  
There is no charge to the awarded contractor for operation.  
· Assume responsibility for injury to person (in relation to incident of malfunction/faulty elevator)  
See CUNY Project Manual and Contract for insurance requirements. |
| 3     | Q: Carpet #1 Finish Plan shows – 500 yards. Carpet #2 Finish Plan doesn’t show a quantity.  
A: CPT-1 is a custom color carpet tile, requiring a min quantity of 500 SY (not yards) for a custom color order. Assume 600 SY of CPT-1 is required for this project. The remainder of the new carpet tile to be provided, as shown, is CPT-2, a standard (non-custom) carpet tile. Provide sufficient quantity of CPT-2 to cover the remainder of the scope of work area as shown. Refer to bid documents, including, but not limited to: the finish legend and the finish plans. |
| 4     | Q: Please advise who will be furnishing and installing tel/data scope in drawings TT-000 through TT-400.  
A: Tel/data empty conduit raceways and new cabling are to be provided by the contractor awarded this project. Refer to bid documents, including, but not limited to: keynotes in sheets TT-100 & TT-101.  
Drawings A-610 through A-612 also indicate contractor’s scope for tel/data at furniture and other areas. Please refer to the technology drawings TT-000 through TT-400. |
| 5     | Q: Please advise if there are any building required subs that have to be used for this project.  
A: Please refer to related responses below. |
| 6     | Q: Is there BMS and FA vendor for the building?  
A: The FA vendor is Red Hawk, which is still conducting the ongoing FA replacement project in the Information Technology Building. The present BMS system is an Invensys system maintained on an as-needed basis by TBS, however the building is presently being upgraded to a Honeywell System. There is no requirement to use the maintenance vendor for the new work. The FA vendor contact information will be provided the awarded contractor. |
<p>| 7     | Q: Are there any specs for the shades? In DM101 note 11 states that the old shades are to be reuse. Detail on A-511 mentions new shades in the existing window pockets. |</p>
<table>
<thead>
<tr>
<th>Question</th>
<th>Answer</th>
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<tbody>
<tr>
<td>Shade pockets to remain and be reused. Provide new manual roller shades in existing pockets. Please refer to bid documents, including accessory legend in drawing A-001 and RCP in A-102. See new specification section #122413 for additional roller shade information. Wording of note 11 in DM-101 has been revised for clarification; see revised drawing in Addendum 1.</td>
<td>A: Shade pockets to remain and be reused. Provide new manual roller shades in existing pockets. Please refer to bid documents, including accessory legend in drawing A-001 and RCP in A-102. See new specification section #122413 for additional roller shade information. Wording of note 11 in DM-101 has been revised for clarification; see revised drawing in Addendum 1.</td>
</tr>
<tr>
<td>Please clarify if the computer desks are to be prewired by furniture vendor and confirm that all furniture is to be furnished by others. Also, electrical panels seem to be existing and drawing E-003 is asking to add only new surge protection for the existing electrical panels. Are we supposed to furnish and install new electrical panels or new circuitry in existing panels?</td>
<td>A: The bid documents show furniture system wiring and harness to be provided and installed by the furniture manufacturer. The contractor is responsible to connect the furniture system wiring from the “base infeed box” to the closest junction box. All electrical panels are existing to be re-used. All under raised floor circuit homeruns provided are based on existing junction box locations under the raised floor. Provide number of circuits as required based on indicated homerun per junction box. Surge protection is not provided on the panel. Provide surge protected receptacles at each computer location as indicated in the bid documents. All furniture is to be provided by Owner’s vendor. See bid documents, including, but not limited to: spec 011000, drawing A-601 and series A-61x drawings.</td>
</tr>
<tr>
<td>Are we supposed to furnish and install new EM pack for existing fixtures? If we are, please provide the specification for required emergency packs. Also, there are exit signs throughout the space but the drawings don’t indicate whether they are new or not. Please clarify.</td>
<td>A: New EM lighting fixtures indicated on the floor plans are to be connected to the existing emergency lighting panel on floor below via the circuit serving the floor. Battery back-up ballasts or battery back-up packs are not requested for this project. This project does not require new exit signs. The existing exit signs, which are shown in the bid documents, shall remain unless otherwise indicated in the bid documents, including, but not limited to: demolition RCP.</td>
</tr>
<tr>
<td>Can you please provide spec of the existing raised floor?</td>
<td>A: We do not have any as-built information on the existing raised floor. Use Tate Access Floor as a basis of design product as noted in specification #096900. Contractor awarded the project to field verify and alert the Architect and CUNY of any discrepancies.</td>
</tr>
<tr>
<td>Is it possible to have power point presentation during pre-bid meeting for information purposes?</td>
<td>A: The pre-bid meeting presented drawings DM-101, A-601, MD-100, M-100, and A-004 in that order. Please see the bid documents. The meeting also showed the attached renderings.</td>
</tr>
<tr>
<td>What are the working hours for construction?</td>
<td>A: In general, hours are from 7:00 AM to 5:00 PM. However, work restrictions may be imposed for special school activities such as reading/final weeks. The contractor awarded the project shall coordinate the schedule with CUNY and the college as noted in the bid documents.</td>
</tr>
<tr>
<td>Shaw Industries is not clear on the “custom carpet”. The numbers provided are not the custom color numbers.</td>
<td>A: Please contact our rep who was involved in the custom version of CPT-1 carpet tile (custom version of Shaw “Folded” tile), and who already responded to several of your phone calls: Laura Huggins Contract Specialist Shaw Contract Group Subsidiary of Berkshire Hathaway 521 Fifth Avenue New York, NY 10175 <a href="mailto:laura.huggins@shawinc.com">laura.huggins@shawinc.com</a></td>
</tr>
<tr>
<td>Please advise if the project is to be priced with non-union, union or prevailing wage rates.</td>
<td>A: This project is to be priced with prevailing wage rates.</td>
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<tr>
<td>Question</td>
<td>Answer</td>
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</table>
| Q: For low voltage scope, how far will the relocations of all the cables be going? | Further to this, I have some discrepancies for the relocated outlets and cables from Dwg TT-100 to Dwg TT-101. There are more relocated outlets and cables shown on Dwg TT-101 than what is shown on TT-100. Here is a little breakdown:  
1) Dwg TT-100  
   a) Data Outlet with 1 Cable to be relocated – Qty of 27 locations (27 - Cat 6 Cables)  
   b) Data Outlet with 2 Cables to be relocated – Qty of 19 locations (38 - Cat 6 Cables)  
   c) Data Outlet with 4 Cables to be relocated – Qty of 35 locations (140 - Cat 6 Cables)  
   d) Data Outlet with 6 Cables to be relocated – Qty of 17 locations (102 – Cat 6 Cables)  
   e) Total # of Data Outlets to be relocated – Qty of 98  
   f) Total # of Data Cables to be relocated – Qty of 307  
2) Dwg TT-101  
   a) Data Outlet with 1 Cable in new location – Qty of 2 locations (2 – Cat 6 Cables)  
   b) Data Outlet with 2 Cables in new location – Qty of 72 locations (144 – Cat 6 Cables)  
   c) Data Outlet with 4 Cables in new location – Qty of 45 locations (180 – Cat 6 Cables)  
   d) Total # of relocated Data Outlets in new location – Qty of 119  
   e) Total # of relocated Data Cables in new location – Qty of 326  
   21 more outlets & 19 more cables are shown to be relocated to new locations on Dwg TT-101 than what is shown to be relocated on Dwg TT-100. |
<p>| Q: Please provide the tile specifications. | Please refer to bid documents, including finish schedule in drawing A-001 for finish information. Assuming this is referring to porcelain floor tile, not ceiling tile, or carpet tile, also refer to specifications, including revised section #093013. |
| Q: Clarify who is providing the table top boxes in the Group workrooms. If it is EC please provide model number. | Assuming this is referring to the power receptacles in the group room table tops, these will be owner furnished and owner installed. |
| Q: We can’t find signage drawings for the dimensional letters (Height, Width, Thicknesses, Finishes, Wall Conditions, Quantity, etc.) | Please refer to bid documents, including detail 6&amp;7 on A-512 for dimensional letter elevation, section, and proposed installation method. The proposed locations for the dimensional letters are shown in details 4 &amp; 13 on sheet A-701. |
| Q: We can’t find the Wall Covering specs (Type of Wall Covering Required, Locations, Heights &amp; Widths of walls). | Please refer to bid documents, including finish schedule A-001, spec section #097200 “Wall Covering,” drawing A-001, and detail 4 in drawing A-701. |
| Q: Since the drawings are not searchable I did not locate other signs mentioned other than Dimensional cut letters &amp; Wall Covering, i.e. no mention/details on room signage etc. | Please review bid documents. The dimensional letters and the wall covering are the only “signage” elements for this project. The owner will provide room signage. The bid documents show room signage for location and mounting height coordination only. Please refer to bid documents, including interior elevations A-701 &amp; A-702 for owner’s room signage locations. |
| Q: I found the window treatments on detail 7 on A511, but there is no spec, are the window treatments by owner? | Please see response to RFI #7. |</p>
<table>
<thead>
<tr>
<th>Q:</th>
<th>Is the furniture by the GC or by the college?</th>
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</thead>
<tbody>
<tr>
<td>A:</td>
<td>The furniture, including, but not limited to: tables, lounge seats, office chairs, side chairs, etc, will be purchased and installed by the owner. Please see RFI #8 for additional information.</td>
</tr>
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<table>
<thead>
<tr>
<th>Q:</th>
<th>Please provide the specs for flooring finish RP-3, which is indicated as the floor finish at No629 – Information Entrance on A-801.00.</th>
</tr>
</thead>
<tbody>
<tr>
<td>A:</td>
<td>The floor finish should read “RB-1”. See revised A-801.00 drawing in Addendum 1.</td>
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<thead>
<tr>
<th>Q:</th>
<th>How much time after turning over phase 1 can phase 2 begin?</th>
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<tbody>
<tr>
<td>A:</td>
<td>The project assumes no need for demobilization/remobilization between phase 1 and phase 2. The contractor who is awarded the project shall coordinate the schedule of all items necessary for owner occupation of phase 1 prior to starting phase 2, including, but not limited to: punch list items, IT commissioning (by owner), cleaning, and other required sign-offs. It shall be the responsibility of the contractor who is awarded the project to schedule these close out tasks with enough time for them to be completed and signed off by the owner when phase 1 is substantially completed.</td>
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<thead>
<tr>
<th>Q:</th>
<th>Please provide specifications for existing raised floor systems.</th>
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<tr>
<td>A:</td>
<td>Please see response to RFI #10.</td>
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<thead>
<tr>
<th>Q:</th>
<th>Please provide the fire alarm vendor’s contact information.</th>
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<tr>
<td>A:</td>
<td>See RFI #6</td>
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<tr>
<th>Q:</th>
<th>Please provide the contact information for your preferred vendor for sprinkler, HVAC and Electrical trades.</th>
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<tbody>
<tr>
<td>A:</td>
<td>As this is a public bid, we do not recommend specific vendors. Vendors are to be selected by contractor/subcontractors awarded this project.</td>
</tr>
</tbody>
</table>
### SUPPLEMENTAL GENERAL CONDITIONS

*Revised Items are indicated in Bold Italic*

#### DIVISION 01 - GENERAL REQUIREMENTS
- 011000 SUMMARY
- 012500 SUBSTITUTION PROCEDURES
- 012600 CONTRACT MODIFICATION PROCEDURES
- 013100 PROJECT MANAGEMENT AND COORDINATION
- 013200 CONSTRUCTION PROGRESS DOCUMENTATION
- 013300 SUBMITTAL PROCEDURES
- 014000 QUALITY REQUIREMENTS
- 014200 REFERENCES
- 015000 TEMPORARY FACILITIES AND CONTROLS
- 016000 PRODUCT REQUIREMENTS
- 017300 EXECUTION
- 017419 CONSTRUCTION WASTE MANAGEMENT
- 017700 CLOSEOUT PROCEDURES
- 017823 OPERATION AND MAINTENANCE DATA
- 017839 PROJECT RECORD DOCUMENTS

#### DIVISION 02 - EXISTING CONDITIONS
- 024119 SELECTIVE DEMOLITION

#### DIVISION 05 - METALS
- 054000 COLD FORMED METAL FRAMING
- 054300 SLOTTED CHANNEL FRAMING
- 055000 METAL FABRICATIONS

#### DIVISION 06 - WOOD, PLASTICS, AND COMPOSITES
- 061053 MISCELLANEOUS ROUGH CARPENTRY
- 062023 INTERIOR FINISH CARPENTRY
- 064116 PLASTIC-LAMINATE-FACED ARCHITECTURAL CABINETS
- 064219 PLASTIC-LAMINATE-FACED WOOD PANELING

#### DIVISION 07 - THERMAL AND MOISTURE PROTECTION
- 072100 THERMAL INSULATION
- 078413 PENETRATION FIRESTOPPING
- 078443 JOINT FIRESTOPPING
- 079200 JOINT SEALANTS
- 079219 ACOUSTICAL JOINT SEALANTS

#### DIVISION 08 - OPENINGS
- 081113 HOLLOW METAL DOORS AND FRAMES
- 083113 ACCESS DOORS AND FRAMES
- 083513 FOLDING GRILLES
- 087100 DOOR HARDWARE
- 086000 GLAZING

#### DIVISION 09 – FINISHES
- 092216 NON-STRUCTURAL METAL FRAMING
- 092900 GYPSUM BOARD
- 093013 CERAMIC TILING
- 095113 ACOUSTICAL PANEL CEILINGS
- 096513 RESILIENT BASE AND ACCESSORIES
- 096519 RESILIENT TILE FLOORING
- 096813 TILE CARPETING
- 096900 ACCESS FLOORING
- 097200 WALL COVERINGS
- 099123 INTERIOR PAINTING
DIVISION 10 – SPECIALTIES
101419 DIMENSIONAL LETTER SIGNAGE

DIVISION 12 - FURNISHINGS
122413 ROLLER WINDOW SHADES
123623 PLASTIC LAMINATED CLAD COUNTERTOPS
123661 SIMULATED STONE COUNTERTOPS

DIVISION 21 – FIRE SUPPRESSION
210517 SLEEVES AND SLEEVE SEALS FOR FIRE SUPPRESSION PIPING
210518 ESCUTCHEONS FOR FIRE SUPPRESSION PIPING
210553 IDENTIFICATION FOR FIRE SUPPRESSION PIPING AND EQUIPMENT
211313 FIRE SUPPRESSION WET-PIPE SPRINKLER SYSTEMS

DIVISION 23 – HEATING VENTILATING AND AIR CONDITIONING
230529 HANGERS AND SUPPORTS FOR HVAC PIPING AND EQUIPMENT
230553 IDENTIFICATION FOR HVAC PIPING AND EQUIPMENT
230713 DUCT INSULATION
230900 BUILDING AUTOMATION SYSTEM
233113 METAL DUCTS
233300 AIR DUCT ACCESSORIES
233600 AIR TERMINAL UNITS
233713 DIFFUSERS, REGISTERS, AND GRILLES

DIVISION 26 - ELECTRICAL
260519 LOW-VOLTAGE ELECTRICAL POWER CONDUCTORS AND CABLES
260523 CONTROL-VOLTAGE ELECTRICAL POWER CABLES
260526 GROUNDING AND BONDING FOR ELECTRICAL SYSTEMS
260529 HANGERS AND SUPPORTS FOR ELECTRICAL SYSTEMS
260553 IDENTIFICATION FOR ELECTRICAL SYSTEMS
260923 LIGHTING CONTROL DEVICES
262726 WIRING DEVICES
262813 FUSES
262816 ENCLOSED SWITCHES AND CIRCUIT BREAKERS
265100 INTERIOR LIGHTING (EXCEPT FOR ARCHITECTURAL LIGHTING)
265101 ARCHITECTURAL LIGHT FIXTURES

DRAWING INDEX

ARCHITECTURAL
T-100 TITLE SHEET & GENERAL NOTES
T-101 SIXTH FLOOR LIFE SAFETY PLAN
T-102 EXISTING DETAILS (FOR INFORMATION ONLY)
T-103 EXISTING DETAILS (FOR INFORMATION ONLY)
A-001 FINISH SCHEDULE & MOUNTING HEIGHTS
A-002 DOOR & FRAME TYPES, DOOR SCHEDULE
A-003 PARTITION TYPES & TYPICAL DETAILS
A-004 PHASING, LOGISTICS & PROTECTION PLAN
DM-101 SIXTH FLOOR DEMOLITION PLAN
DM-102 SIXTH FLOOR DEMOLITION REFLECTED CEILING PLAN
DM-103 DEMOLITION DETAILS
A-101 SIXTH FLOOR CONSTRUCTION PLAN
A-102 SIXTH FLOOR REFLECTED CEILING PLAN
A-501 MILLWORK & MISC. DETAILS
A-502 MILLWORK PLAN DETAILS
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<tr>
<td>A-511</td>
<td>INTERIOR DETAILS &amp; CEILING DETAILS</td>
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<tr>
<td>A-512</td>
<td>INTERIOR DETAILS &amp; CEILING DETAILS</td>
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<td>A-513</td>
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<td>A-601</td>
<td>SIXTH FLOOR FURNITURE &amp; EQUIPMENT PLAN</td>
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<td>FURNITURE DETAILS</td>
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<td>A-702</td>
<td>INTERIOR ELEVATIONS</td>
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<td>A-801</td>
<td>SIXTH FLOOR FINISH FLOOR PLAN</td>
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<td>A-802</td>
<td>SIXTH FLOOR FINISH FLOOR PATTERN PLAN</td>
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**MECHANICAL/ELECTRICAL/PLUMBING**

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<tr>
<td>M-001</td>
<td>HVAC GENERAL NOTES, SYMBOLS, ABBREVIATIONS, SCHEDULES AND DETAILS</td>
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<tr>
<td>MD-100</td>
<td>HVAC SIXTH FLOOR DEMOLITION FLOOR PLAN</td>
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<tr>
<td>M-100</td>
<td>HVAC SIXTH FLOOR NEW CONSTRUCTION PLAN</td>
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<tr>
<td>SP-001</td>
<td>SPRINKLER GENERAL NOTES, SYMBOLS, ABBREVIATIONS, DETAILS, &amp; RISER DIAGRAMS</td>
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<td>SPD-100</td>
<td>SPRINKLER SIXTH FLOOR DEMOLITION PLAN</td>
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<tr>
<td>SP-100</td>
<td>SPRINKLER SIXTH FLOOR NEW CONSTRUCTION PLAN</td>
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<tr>
<td>E-001</td>
<td>ELECTRICAL GENERAL NOTES, SYMBOLS, PANELS, &amp; ABBREVIATIONS</td>
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<tr>
<td>E-002</td>
<td>ELECTRICAL DETAILS</td>
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<td>E-003</td>
<td>ELECTRICAL PANEL SCHEDULES</td>
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<tr>
<td>ED-101</td>
<td>ELECTRICAL SIXTH FLOOR POWER DEMOLITION PLAN</td>
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<tr>
<td>ED-102</td>
<td>ELECTRICAL SIXTH FLOOR LIGHTING DEMOLITION PLAN</td>
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<tr>
<td>E-101</td>
<td>ELECTRICAL SIXTH FLOOR POWER PLAN</td>
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<tr>
<td>E-102</td>
<td>ELECTRICAL SIXTH FLOOR LIGHTING PLAN</td>
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<tr>
<td>FA-001</td>
<td>FIRE ALARM PLAN NOTES, SYMBOLS, RISER DIAGRAM</td>
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<td>FA-101</td>
<td>ELECTRICAL SIXTH FLOOR FIRE ALARM PLAN</td>
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<tr>
<td>TT-000</td>
<td>TELECOM – COVER SHEET</td>
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<td>TT-001</td>
<td>TELECOMMUNICATIONS DESIGN SPECIFICATION</td>
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<tr>
<td>TT-100</td>
<td>TELECOM – SIXTH FLOOR DEMO PLAN</td>
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<td>TT-101</td>
<td>TELECOM – SIXTH FLOOR PLAN</td>
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<td>TT-300</td>
<td>TELECOM – DATA ROOM 610B - ENLARGED PLAN</td>
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<td>TT-400</td>
<td>TELECOM – TYPICAL DETAILS</td>
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</table>
SECTION 093013 - CERAMIC TILING (Revised Items are indicated in Bold Italics)

PART 1 - GENERAL

1.1 RELATED DOCUMENTS

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

1.2 SUMMARY

A. Section Includes:

1. Ceramic tile.
2. Crack isolation membrane.
3. Metal edge strips.

B. Related Requirements:

1. Section 079200 "Joint Sealants" for sealing of expansion, contraction, control, and isolation joints in tile surfaces.
2. Section 092900 "Gypsum Board" for glass-mat, water-resistant backer board.

1.3 DEFINITIONS

A. General: Definitions in the ANSI A108 series of tile installation standards and in ANSI A137.1 apply to Work of this Section unless otherwise specified.


C. Module Size: Actual tile size plus joint width indicated.

D. Face Size: Actual tile size, excluding spacer lugs.

1.4 PREINSTALLATION MEETINGS

A. Preinstallation Conference: Conduct conference at Project site.

1. Review requirements in ANSI A108.01 for substrates and for preparation by other trades.

1.5 ACTION SUBMITTALS

A. Product Data: For each type of product.

B. Shop Drawings: Show locations of each type of tile and tile pattern. Show widths, details, and locations of expansion, contraction, control, and isolation joints in tile substrates and finished tile surfaces.

C. Samples for Initial Selection: For tile, grout, and accessories involving color selection.

D. Samples for Verification:

1. Full-size units of each type and composition of tile and for each color and finish required
2. Sample of grout color.
3. Stone thresholds in 6-inch (150-mm) lengths.
4. Metal edge strips in 6-inch (150-mm) lengths.
1.6 INFORMATIONAL SUBMITTALS

A. Qualification Data: For Installer.
B. Master Grade Certificates: For each shipment, type, and composition of tile, signed by tile manufacturer and Installer.
C. Product Certificates: For each type of product.
D. Product Test Reports: For tile-setting and -grouting products.

1.7 QUALITY ASSURANCE

A. Installer Qualifications:
   1. Installer is a five-star member of the National Tile Contractors Association or a Trowel of Excellence member of the Tile Contractors’ Association of America
   2. Installer employs Ceramic Tile Education Foundation Certified Installers.

1.8 DELIVERY, STORAGE, AND HANDLING

A. Deliver and store packaged materials in original containers with seals unbroken and labels intact until time of use. Comply with requirements in ANSI A137.1 for labeling tile packages.
B. Store tile and cementitious materials on elevated platforms, under cover, and in a dry location.
C. Store aggregates where grading and other required characteristics can be maintained and contamination can be avoided.
D. Store liquid materials in unopened containers and protected from freezing.

1.9 FIELD CONDITIONS

A. Environmental Limitations: Do not install tile until construction in spaces is complete and ambient temperature and humidity conditions are maintained at the levels indicated in referenced standards and manufacturer's written instructions.

PART 2 - PRODUCTS

2.1 MANUFACTURERS

A. Source Limitations for Tile: Obtain tile from single source or producer.
   1. Obtain tile of each type and color or finish from same production run and of consistent quality in appearance and physical properties for each contiguous area.
B. Source Limitations for Setting and Grouting Materials: Obtain ingredients of a uniform quality for each mortar, adhesive, and grout component from single manufacturer and each aggregate from single source or producer.
   1. Obtain setting and grouting materials, except for unmodified Portland cement and aggregate, from single manufacturer.
   2. Obtain waterproof membrane and crack isolation membrane, except for sheet products, from manufacturer of setting and grouting materials.
C. Source Limitations for Other Products: Obtain each of the following products specified in this Section from a single manufacturer:
   1. Stone thresholds.
   2. Waterproof membrane.
   3. Crack isolation membrane.
   4. Cementitious backer units.
   5. Metal edge strips.
2.2 PRODUCTS, GENERAL

A. ANSI Ceramic Tile Standard: Provide tile that complies with ANSI A137.1 for types, compositions, and other characteristics indicated.
   1. Provide tile complying with Standard grade requirements.

B. ANSI Standards for Tile Installation Materials: Provide materials complying with ANSI A108.02, ANSI standards referenced in other Part 2 articles, ANSI standards referenced by TCNA installation methods specified in tile installation schedules, and other requirements specified.

C. Factory Blending: For tile exhibiting color variations within ranges, blend tile in factory and package so tile units taken from one package show same range in colors as those taken from other packages and match approved Samples.

D. Mounting: For factory-mounted tile, provide back- or edge-mounted tile assemblies as standard with manufacturer unless otherwise indicated.
   1. Where tile is indicated for installation in wet areas, do not use back- or edge-mounted tile assemblies unless tile manufacturer specifies in writing that this type of mounting is suitable for installation indicated and has a record of successful in-service performance.

2.3 TILE PRODUCTS

A. Porcelain Tile: Unglazed tile.

1. Basis of Design: **Cross-Color Mingles by Crossville**
2. Alternative acceptable manufacturers:
   a. Dal-tile Corporation

5. Module Size: Match Existing; **See finish legend**.
6. Thickness: **Match existing for leveled floor, min 1/8"**.
7. Face: Plain with cushion edges.
8. Surface: Smooth, without abrasive admixture.
9. Dynamic Coefficient of Friction: Not less than 0.42.
10. Finish: Mat, opaque glaze.
11. Tile Color and Pattern: As selected by Architect from manufacturer's full range.
12. Grout Color: As selected by Architect from manufacturer's full range.
13. Trim Units: Coordinated with sizes and coursing of adjoining flat tile where applicable including but not limited to
   a. Cove base
   b. Internal corner with cove base

2.4 CRACK ISOLATION MEMBRANE

A. General: Manufacturer's standard product that complies with ANSI A118.12 for standard performance and is recommended by the manufacturer for the application indicated. Include reinforcement and accessories recommended by manufacturer.

2.5 SETTING MATERIALS

   1. For wall applications, provide mortar that complies with requirements for nonsagging mortar in addition to the other requirements in ANSI A118.1.

B. Latex-Portland Cement Mortar (Thinset): ANSI A118.4.
1. Mixture of Dry-Mortar Mix and Latex Additive: Mixture of prepackaged dry-mortar mix and liquid-latex additive complying with the following requirements:
   a. Latex Additive: Styrene butadiene rubber.
   b. For wall applications, provide nonsagging, latex-portland cement mortar complying with ANSI A118.4 for mortar of this type defined in Section F-2.1.2.

2.6 GROUT MATERIALS

A. Sand-Portland Cement Grout: ANSI A108.10, consisting of white or gray cement and white or colored aggregate as required to produce color indicated.


C. Latex-Portland Cement Grout: ANSI A118.6 for materials described in Section H-2.4, composed as follows:
   1. Factory-Prepared, Dry-Grout Mixture: Factory-prepared mixture of portland cement; dry, redispersible, ethylene vinyl acetate additive; and other ingredients to produce the following:
      a. Unsanded grout mixture for joints 1/8 inch and narrower.
      b. Sanded grout mixture for joints 1/8 inch and wider.

2.7 MISCELLANEOUS MATERIALS

A. Trowelable Underlayments and Patching Compounds: Latex-modified, portland cement-based formulation provided or approved by manufacturer of tile-setting materials for installations indicated.

B. Metal Edge Strips: Angle or L-shaped, height to match tile and setting-bed thickness, metallic or combination of metal and PVC or neoprene base, designed specifically for flooring applications; stainless-steel, ASTM A 666, 300 Series exposed-edge material.
   1. Basis of Design: Ceramic Tool’s ceramic tile to carpet transition strip

C. Tile Cleaner: A neutral cleaner capable of removing soil and residue without harming tile and grout surfaces, specifically approved for materials and installations indicated by tile and grout manufacturers.

D. Grout Sealer: Manufacturer's standard product for sealing grout joints and that does not change color or appearance of grout.
   1. Grout sealers shall comply with requirements of FloorScore certification.
   2. Grout sealers shall comply with the testing and product requirements of the California Department of Public Health's (formerly, the California Department of Health Services') "Standard Method for the Testing and Evaluation of Volatile Organic Chemical Emissions from Indoor Sources Using Small-Scale Environmental Chambers."

2.8 MIXING MORTARS AND GROUT

A. Mix mortars and grouts to comply with referenced standards and mortar and grout manufacturers' written instructions.

B. Add materials, water, and additives in accurate proportions.

C. Obtain and use type of mixing equipment, mixer speeds, mixing containers, mixing time, and other procedures to produce mortars and grouts of uniform quality with optimum performance characteristics for installations indicated.
PART 3 - EXECUTION

3.1 EXAMINATION

A. Examine substrates, areas, and conditions where tile will be installed, with Installer present, for compliance with requirements for installation tolerances and other conditions affecting performance of the Work.

1. Verify that substrates for setting tile are firm; dry; clean; free of coatings that are incompatible with tile-setting materials, including curing compounds and other substances that contain soap, wax, oil, or silicone; and comply with flatness tolerances required by ANSI A108.01 for installations indicated.

2. Verify that concrete substrates for tile floors installed with thinset mortar comply with surface finish requirements in ANSI A108.01 for installations indicated.
   a. Verify that surfaces that received a steel trowel finish have been mechanically scarified.
   b. Verify that protrusions, bumps, and ridges have been removed by sanding or grinding.

3. Verify that installation of grounds, anchors, recessed frames, electrical and mechanical units of work, and similar items located in or behind tile has been completed.

4. Verify that joints and cracks in tile substrates are coordinated with tile joint locations; if not coordinated, adjust joint locations in consultation with Architect.

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

3.2 PREPARATION

A. Fill cracks, holes, and depressions in concrete substrates for tile floors installed with thinset mortar with trowelable leveling and patching compound specifically recommended by tile-setting material manufacturer.

B. Where indicated, prepare substrates to receive waterproofing by applying a reinforced mortar bed that complies with ANSI A108.1A and is sloped 1/4 inch per foot (1:50) toward drains.

C. Blending: For tile exhibiting color variations, verify that tile has been factory blended and packaged so tile units taken from one package show same range of colors as those taken from other packages and match approved Samples. If not factory blended, either return to manufacturer or blend tiles at Project site before installing.

3.3 CERAMIC TILE INSTALLATION

A. Comply with TCNA's "Handbook for Ceramic, Glass, and Stone Tile Installation" for TCNA installation methods specified in tile installation schedules. Comply with parts of the ANSI A108 series "Specifications for Installation of Ceramic Tile" that are referenced in TCNA installation methods, specified in tile installation schedules, and apply to types of setting and grouting materials used.

B. Extend tile work into recesses and under or behind equipment and fixtures to form complete covering without interruptions unless otherwise indicated. Terminate work neatly at obstructions, edges, and corners without disrupting pattern or joint alignments.

C. Accurately form intersections and returns. Perform cutting and drilling of tile without marring visible surfaces. Carefully grind cut edges of tile abutting trim, finish, or built-in items for straight aligned joints. Fit tile closely to electrical outlets, piping, fixtures, and other penetrations so plates, collars, or covers overlap tile.

D. Provide manufacturer's standard trim shapes where necessary to eliminate exposed tile edges.

E. Where accent tile differs in thickness from field tile, vary setting-bed thickness so that tiles are flush.

F. Jointing Pattern: Lay tile in grid pattern unless otherwise indicated. Lay out tile work and center tile fields in both directions in each space or on each wall area. Lay out tile work to minimize the use of pieces that are less than half of a tile. Provide uniform joint widths unless otherwise indicated.
1. For tile mounted in sheets, make joints between tile sheets same width as joints within tile sheets so joints between sheets are not apparent in finished work.

2. Where adjoining tiles on floor, base, walls, or trim are specified or indicated to be same size, align joints.

3. Where tiles are specified or indicated to be whole integer multiples of adjoining tiles on floor, base, walls, or trim, align joints unless otherwise indicated.

G. Joint Widths: Unless otherwise indicated, install tile with the following joint widths:

1. **Porcelain Tile**: 1/8 inch (3.2 mm).

H. Lay out tile wainscots to dimensions indicated or to next full tile beyond dimensions indicated.

I. Expansion Joints: Provide expansion joints and other sealant-filled joints, including control, contraction, and isolation joints, where indicated. Form joints during installation of setting materials, mortar beds, and tile. Do not saw-cut joints after installing tiles.

1. Where joints occur in concrete substrates, locate joints in tile surfaces directly above them.

J. Metal Edge Strips: Install at locations indicated, where exposed edge of tile flooring meets carpet, wood, or other flooring that finishes flush with top of tile, and where exposed edge of tile flooring meets carpet, wood, or other flooring that finishes flush with or below top of tile and no threshold is indicated.

K. Grout Sealer: Apply grout sealer to grout joint in tile floors according to grout-sealer manufacturer's written instructions. As soon as grout sealer has penetrated grout joints, remove excess sealer and sealer from tile faces by wiping with soft cloth.

3.4 TILE BACKING PANEL INSTALLATION

A. Install panels and treat joints according to ANSI A108.11 and manufacturer's written instructions for type of application indicated. Use latex-portland cement mortar for bonding material unless otherwise directed in manufacturer's written instructions.

3.5 CRACK ISOLATION MEMBRANE INSTALLATION

A. Install crack isolation membrane to comply with ANSI A108.17 and manufacturer's written instructions to produce membrane of uniform thickness that is bonded securely to substrate.

B. Allow crack isolation membrane to cure before installing tile or setting materials over it.

3.6 ADJUSTING AND CLEANING

A. Remove and replace tile that is damaged or that does not match adjoining tile. Provide new matching units, installed as specified and in a manner to eliminate evidence of replacement.

B. Cleaning: On completion of placement and grouting, clean all ceramic tile surfaces so they are free of foreign matter.

1. Remove grout residue from tile as soon as possible.

2. Clean grout smears and haze from tile according to tile and grout manufacturer's written instructions but no sooner than 10 days after installation. Use only cleaners recommended by tile and grout manufacturers and only after determining that cleaners are safe to use by testing on samples of tile and other surfaces to be cleaned. Protect metal surfaces and plumbing fixtures from effects of cleaning. Flush surfaces with clean water before and after cleaning.

3.7 PROTECTION

A. Protect installed tile work with kraft paper or other heavy covering during construction period to prevent staining, damage, and wear. If recommended by tile manufacturer, apply coat of neutral protective cleaner to completed tile walls and floors.

B. Prohibit foot and wheel traffic from tiled floors for at least seven days after grouting is completed.
C. Before final inspection, remove protective coverings and rinse neutral protective cleaner from tile surfaces.

3.8 INTERIOR CERAMIC TILE INSTALLATION SCHEDULE

A. Interior Floor Installations, Concrete Subfloor VIF. *Contractor to field verify condition.*

END OF SECTION 093013
SECTION 122413 - ROLLER WINDOW SHADES

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. Manually operated roller shades with single rollers.
   B. Related Requirements:
      1. Section 061053 "Miscellaneous Rough Carpentry" for wood blocking and grounds for mounting roller shades and accessories.
      2. Section 079200 "Joint Sealants" for sealing the perimeters of installation accessories for light-blocking shades with a sealant.

1.3 ACTION SUBMITTALS
   A. Product Data: For each type of product.
      1. Include styles, material descriptions, construction details, dimensions of individual components and profiles, features, finishes, and operating instructions for roller shades.
   B. Shop Drawings: Show fabrication and installation details for roller shades, including shadeband materials, their orientation to rollers, and their seam and batten locations.
   C. Samples: For each exposed product and for each color and texture specified, 10 inches (250 mm) long.
   D. Samples for Initial Selection: For each type and color of shadeband material.
      1. Include Samples of accessories involving color selection.
   E. Samples for Verification: For each type of roller shade.
      1. Shadeband Material: Not less than 10 inches (250 mm) square. Mark inside face of material if applicable.
   F. Roller-Shade Schedule: Use same designations indicated on Drawings.

1.4 INFORMATIONAL SUBMITTALS
   A. Qualification Data: For Installer.
   B. Product Certificates: For each type of shadeband material, signed by product manufacturer.
   C. Product Test Reports: For each type of shadeband material, for tests performed by a qualified testing agency.

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

1.6 QUALITY ASSURANCE
   A. Manufacturer Qualifications: Obtain roller shades system through one source from a single manufacturer with a minimum of ten years’ experience and minimum of five projects of similar scope and size in manufacturing products comparable to those specified in this section. This includes but is not limited to all required extrusions, accessories, controls and fabricated roller shades or else all stated and published warranties may be void.
   B. Installer Qualifications: Engage an installer, which shall assume responsibility for installation of all system components, with the following qualifications.
1. Installer for roller shade system shall be trained and certified by the manufacturer with a minimum of ten years' experience in installing products comparable to those specified in this section.

C. Fire-Test-Response Characteristics: Passes NFPA 701 large-scale vertical burn. Materials tested shall be identical to products proposed for use.

D. Shadecloth Anti-Microbial Characteristics: 'No Growth' per ASTM G 21 results for fungi ATCC9642, ATCC 9644, and ATCC9645.

1.7 DELIVERY, STORAGE, AND HANDLING

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

1.8 FIELD CONDITIONS

A. Environmental Limitations: Do not install roller shades until construction and finish work in spaces, including painting, is complete and dry and ambient temperature and humidity conditions are maintained at the levels indicated for Project when occupied for its intended use.

B. Field Measurements: Where roller shades are indicated to fit to other construction, verify dimensions of other construction by field measurements before fabrication and indicate measurements on Shop Drawings. Allow clearances for operating hardware of operable glazed units through entire operating range. Notify Architect of installation conditions that vary from Drawings. Coordinate fabrication schedule with construction progress to avoid delaying the Work.

PART 2 - PRODUCTS

2.1 MANUFACTURERS

A. Basis of Design: MechoShade System – UrbanShade Manual System by MechoSystems, 42-03 35th Street, Long Island City, NY 11101, T: (718) 729-2020 ext 1901; Mr. Glen Berman. www.mechoshade.com

B. Acceptable Manufacturers
1. Sol–R-Veil, NY’s manual chain shades

C. Source Limitations: Obtain roller shades from single source from single manufacturer.

2.2 MANUALLY OPERATED SHADES WITH SINGLE ROLLERS, Accessory #2

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

1. Bead Chains: Stainless Steel
   a. Loop Length: Full length of roller shade.
   b. Limit Stops: Provide upper and lower ball stops.
   c. Chain-Retainer Type: Clip, jamb mount

   a. Provide for shadebands that weigh more than 10 lb (4.5 kg) or for shades as recommended by manufacturer, whichever criteria are more stringent.

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

1. Roller Drive-End Location: Right side of inside face of shade
2. Direction of Shadeband Roll: Regular, from back of roller
3. Shadeband-to-Roller Attachment: Manufacturer's standard method
C. Mounting Hardware: Brackets or endcaps, corrosion resistant and compatible with roller assembly, operating mechanism, installation accessories, and mounting location and conditions indicated.

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

E. Shadebands:
      a. Type: Enclosed in sealed pocket of shadeband material
      b. Color and Finish: As selected by Architect from manufacturer's full range

2.3 SHADEBAND MATERIALS

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

B. Light-Filtering Fabric, **Accessory #2**: Woven fabric, stain and fade resistant.
   1. Source: EuroTwill Reversible Weave 6000 Series by Mechoshade or equal
   2. Type: woven PVC coated polyester
   3. Roll Width: Verify existing window openings in the field.
   4. Orientation on Shadeband: Up the bolt
   5. Openness Factor: 5 percent.
   6. Color: TBD

2.4 ROLLER-SHADE FABRICATION

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

B. Unit Sizes: Fabricate units in sizes to fill window and other openings as follows, measured at 74 deg F (23 deg C):
   1. Between (Inside) Jamb Installation: Width equal to jamb-to-jamb dimension of opening in which shade is installed less 1/4 inch (6 mm) per side or 1/2-inch (13-mm) total, plus or minus 1/8 inch (3.1 mm). Length equal to head-to-sill or -floor dimension of opening in which shade is installed less 1/4 inch (6 mm), plus or minus 1/8 inch (3.1 mm).
   2. Outside of Jamb Installation: Width and length as indicated, with terminations between shades of end-to-end installations at centerlines of mullion or other defined vertical separations between openings.

C. Shadeband Fabrication: Fabricate shadebands without battens or seams to extent possible except as follows:
   1. Vertical Shades: Where width-to-length ratio of shadeband is equal to or greater than 1:4 provide battens and seams at uniform spacings along shadeband length to ensure shadeband tracking and alignment through its full range of movement without distortion of the material.

PART 3 - EXECUTION

3.1 EXAMINATION

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

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

3.2 ROLLER-SHADE INSTALLATION

A. Install roller shades level, plumb, and aligned with adjacent units according to manufacturer's written instructions.
1. Opaque Shadebands: Located so shadeband is not closer than 2 inches (51 mm) to interior face of glass unless otherwise noted in drawings. Allow clearances for window operation hardware.

3.3 ADJUSTING

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

3.4 CLEANING AND PROTECTION

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

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

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

3.5 DEMONSTRATION

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

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<td>2-Port</td>
<td>6048, 6049</td>
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<tr>
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<td>4-Port</td>
<td>6082D, 6183D</td>
<td>R</td>
<td>4-Port</td>
<td>6082D, 6083D</td>
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<tr>
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<td>4-Port</td>
<td>6173D, 6174D</td>
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<td>4-Port</td>
<td>6186D, 6187D at Column Lines 6B &amp; C</td>
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<td>6210D, 6211D at Column Lines 6B &amp; C</td>
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</table>

**Condition Designations are as follows:**
- **R** = Existing outlet to be relocated
- **E** = Existing outlet to remain
- **D** = Existing outlet to be demolished
- **N** = New outlet

Outlet Configurations:
- 1 port = 1 Cat 6 cable
- 2 ports = 2 Cat 6 cables
- 4 ports = 4 Cat 6 cables
- 6 ports = 6 Cat 6 cables

**Notes:**
1. Correct ID will only be shown in the event that different existing cables are to be relocated than initially shown on TT-101.
2. As noted on TT-000, ID Numbers ending in "D" denote a PAIR (2) of cables.