ADDENDUM NO. 2

The Architect/ Engineer issues this addendum, applicable to the above named project, to all known Contractors before receipt of proposal.

This addendum includes Item Number 2-1 thru 2-8. This addendum item shall be fully incorporated into the Bidding/Contract Documents and have the same force and effect as though originally included.

The Bidder shall acknowledge receipt of this Addendum No. 2 on the Bid Proposal Form in the place provided.

ARCHITECTURAL

Specifications

Item 2-1: Section 083323 – Overhead Coiling Doors

Replace this section in its entirety within the Project Manual.

Item 2-2: Section 087100 – Finish Hardware

Refer to section 3.3 HARDWARE SCHEDULE

Subject to terms and conditions of the specifications, the following is approved product: Stanley D-4551 Series Door Closers

Item 2-3: Section 102113 – Toilet Compartments

Refer to Subsection 1.2 SUMARY

-Omit Sections: 2. Type: Stainless Steel, 3. Type: Plastic Laminate, 5. Compartment Style: Ceiling Hung

-It is the intent to have: 1. Type: Steel – Color-coated finish,
4. Compartment Style: Overhead braced and floor anchored.
6. Screen Style: Wall hung

MECHANICAL

Specifications

Item 2-4: Section 220519 – Plumbing Meters and Gauges

A domestic water meter is not required as part of this project please remove and reference to this.

Item 2-5: Section 221000 – Plumbing Piping

Add Condensate Piping to this section at 1.1.F, all condensate piping shall be as specified below; insulation is not required on condensate piping for this project:

PVC Pipe: ASTM D2665 schedule 40, DWV
Fittings: ASTM D-2665 DWV PVC.
Joints: Solvent weld with ASTM F656 purple primer and ASTM D-2564 PVC Solvent.

Item 2-6: Section 233113 – Ductwork

Lewis and Lambert is an approved round, oval, and spiral fitting manufacturer.

Drawings

Item 2-7: Sheet M4.1 – Mechanical Schedules – Roof Hood Schedule

The roof hood (OAH-1) shall be listed as "*Manufacturer or Equivalent*".

ELECTRICAL

Item 2-8: Sheet E3.1 – Electrical Schedules, Partial One-Line Diagram, & Details

The following lighting fixtures have been reviewed and are included in the Contract Documents for bidding purposes. All fixtures, lamps, and ballasts are required to meet the specification requirements regardless of prior approval. Prior approval does not waive any requirements indicated on the drawings or the specifications. Some fluorescent fixtures require dimming or multiple levels of switching. The required number and types of ballasts shall be provided to meet the switching requirements shown on the drawings.

Type	Manufacturer and Catalog Number
A	Cooper: NB-SW-2T8-2C-120-AC48-ST-DL8-8'
B	Cooper: NB-SW-2T8-2C-120-AC48-ST-DL8-4'
C	Precision Architectural: ACC01-4-JN-GDBW-F01M-120
D	Precision Architectural: ACC01-4-CT-GDBW-F01M-120
K	Advent: AIW10475-1F28-120V-PT01
M	PMC Lighting: SD-D-4P-6/T5-3'WOA-CA-UNV
N	Cooper: SNF-232-UNV-EB81-U-WG/SNF-4FT-B
P	Atlantic: PH932-P-MS-1/2
N	Cooper: BC-232-UNV-ER81-U
V	Cooper: 715-MH70PAR30-120-CS
W	Tokistar Lighting: GR-75-NW-SP-48" With LED Driver: LDR24-96

END OF ADDENDUM NO. 2

SECTION 083323 – OVERHEAD COILING DOORS

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. Fire-rated doors.

B. Related Requirements:

1. Section 055000 “Metal Fabrications” for miscellaneous steel supports.

1.3 ACTION SUBMITTALS

A. Product Data: For each type and size of overhead coiling door and accessory.

1. Include construction details, material descriptions, dimensions of individual components, profiles for slats, and finishes.
2. Include rated capacities, operating characteristics, electrical characteristics, and furnished accessories.
3. Include description of automatic closing device and testing and resetting instructions.

B. Shop Drawings: For each installation and for special components not dimensioned or detailed in manufacturer’s product data.

1. Include plans, elevations, sections, and mounting details.
2. Include details of equipment assemblies, and indicate dimensions, required clearances, method of field assembly, components and location and size of each field connection.

C. Samples for Initial Selection: Manufacturer’s finish charts showing full range of colors and textures available for units with factory-applied finishes.

1. Include similar samples of accessories involving color selection.

D. Samples for Verification: For each type of exposed finish on the following components, in manufacturer’s standard sizes:

1. Curtain slats.
2. Bottom bar.

3. Guides.
4. Brackets.
5. Hood.
6. Include similar samples of accessories involving color selection.

1.4 CLOSEOUT SUBMITTALS

A. Maintenance Data: For overhead coiling doors to include in maintenance manuals.

1.5 QUALITY ASSURANCE

A. Fire-Rated Door Assemblies: Assemblies complying with NFPA 80 that are listed and labeled by a qualified testing agency, for fire-protection ratings indicated, based on testing at as close to neutral pressure as possible according to NFPA 252.

1. Smoke Control: Provide doors that are listed and labeled with the letter “S” on the fire-rating label by a qualified testing agency for smoke- and draft-control based on testing according to UL 1784; with maximum air-leakage rate of 3.0 cfm/sq. ft. (0.01524 cu. m/s x sq. m) of door opening at 0.10-inch wg (24.9 Pa) for both ambient and elevated temperature tests.

2. PRODUCTS

2.1 FIRE-RATED DOOR ASSEMBLY

A. Fire-Rated Door: Overhead fire-rated coiling door formed with curtain of interlocking metal slats.

B. Fire Rating: 1-1/2 hours with smoke control.

C. Door Curtain Material: Stainless steel.

D. Door Curtain Slats: Flat profile slats of 1-7/8 inch (48-mm) center-to-center height.

E. Curtain Jamb Guides: Stainless steel with exposed finish matching curtain slats.

F. Hood: Match curtain material and finish Stainless Steel.

G. Manual Door Operation: Push-up operation.

2.2 DOOR CURTAIN MATERIALS AND CONSTRUCTION

A. Door Curtains: Fabricate overhead coiling-door curtain of interlocking metal slats, designed to withstand wind loading indicated, in a continuous length for width of door without splices. Unless otherwise indicated, provide slats of thickness and mechanical properties recommended by door manufacturer for performance, size, and type of door indicated, and as follows:

1. Stainless-Steel Door Curtain Slats: ASTM A 666, Type 304; sheet thickness of 0.025 inch (0.64 mm); and as required.
2. Metal Interior Curtain-Slat Facing: Match metal of exterior curtain-slat face, with minimum steel thickness of 0.010 inch (0.25 mm).

B. Curtain Jamb Guides: Manufacturer's standard angles or channels and angles of same material and finish as curtain slats unless otherwise indicated, with sufficient depth and strength to retain curtain, to allow curtain to operate smoothly, and to withstand loading. Slot bolt holes for guide adjustment. Provide removable stops on guides to prevent overtravel of curtain.

2.3 HOODS

A. General: Form sheet metal hood to entirely enclose coiled curtain and operating mechanism at opening head. Contour to fit end brackets to which hood is attached. Roll and reinforce top and bottom edges for stiffness. Form closed ends for surface-mounted hoods and fascia for any portion of between-jamb mounting that projects beyond wall face. Equip hood with intermediate support brackets as required to prevent sagging.

1. Stainless Steel: 0.025-inch (0.64-mm) thick stainless-steel sheet, Type 304, complying with ASTM A 666.

2.4 CURTAIN ACCESSORIES

A. Smoke Seals: Equip each fire-rated door with replaceable smoke-seal perimeter gaskets or brushes for smoke and draft control as required for door listing and labeling by a qualified testing agency.

B. Push/Pull Handles: Equip each push-up-operated or emergency-operated door with lifting handles on each side of door, finished to match door.

C. Automatic-Closing Device for Fire-Rated Doors: Equip each fire-rated door with an automatic-closing device or holder-release mechanism and governor unit complying with NFPA 80 and an easily tested and reset release mechanism. Testing for manually operated doors shall allow resetting by opening the door without retensioning the counterbalancing mechanism. Automatic-closing device shall be designed for activation by the following:

1. Building fire-detection, smoke-detection, and –alarm systems.

2.5 COUNTERBALANCING MECHANISM

A. General: Counterbalance doors by means of manufacturer's standard mechanism with an adjustable-tension, steel helical torsion spring mounted around a steel shaft and contained in a spring barrel connected to top of curtain with barrel rings. Use grease-sealed bearings or self-lubricating graphite bearings for rotating members.

B. Counterbalance Barrel: Fabricate spring barrel of manufacturer's standard hot-formed, structural-quality, seamless carbon-steel pipe, of sufficient diameter and wall thickness to support rolled-up curtain without distortion of slats and to limit barrel deflection to not more than 0.03 in./ft. (2.5 mm/m) of span under full load.

C. Counterbalance Spring: One or more oil-tempered, heat-treated steel helical torsion springs. Size springs to counterbalance weight of curtain, with uniform adjustment accessible from outside barrel. Secure ends of springs to barrel and shaft with cast-steel barrel plugs.

1. Fire-Rated Doors: Equip with auxiliary counterbalance spring and prevent tension release from main counterbalance spring when automatic closing device operates.

D. Torsion Rod for Counterbalance Shaft: Fabricate of manufacturer's standard cold-rolled steel, sized to hold fixed spring ends and carry torsional load.

E. Brackets: Manufacturer's standard mounting brackets of either cast iron or cold-rolled steel plate.

2.6 GENERAL FINISH REQUIREMENTS

A. Comply with NAAMM/NOMMA's "Metal Finishes Manual for Architectural and Metal Products (AMP 500-06)" for recommendations for applying and designating finishes.

B. Appearance of Finished Work: Noticeable variations in same piece are not acceptable. Variations in appearance of adjoining components are acceptable if they are within the range of approved Samples and are assembled or installed to minimize contrast.

2.7 STAINLESS-STEEL FINISHES

A. Surface Preparation: Remove tool and die marks and stretch lines, or blend into finish.

B. Polished Finishes: Grind and polish surfaces to provide uniform finish, free of cross scratches.

1. Run grain of directional finishes with long dimension of each piece.
2. When polishing is completed, passivate and rinse surfaces. Remove embedded foreign matter and leave surfaces chemically clean.
3. Directional Satin Finish: No. 4.

C. Bright, Cold-Rolled, Unpolished Finish: No. 2B.

3. EXECUTION

3.1 EXAMINATION

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

B. Examine locations of electrical connections.

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

3.2 INSTALLATION

A. Install overhead coiling doors and operating equipment complete with necessary hardware, anchors, inserts, hangers and equipment supports; according to manufacturer's written instructions and as specified.

B. Install overhead coiling doors, hoods, controls, and operators at the mounting locations indicated for each door.

C. Accessibility: Install overhead coiling doors, switches, and controls along accessible routes in compliance with regulatory requirements for accessibility.

D. Fire-Rated Doors: Install according to NFPA 80.

E. Smoke-Control Doors: Install according to NFPA 80 and NFPA 105.

3.3 ADJUSTING

A. Adjust hardware and moving parts to function smoothly so that doors operate easily, free of warp, twist or distortion.

1. Adjust exterior doors and components to be weather-resistant.

B. Lubricate bearings and sliding parts as recommended by manufacturer.

C. Adjust seals to provide tight fit around entire perimeter.

3.4 DEMONSTRATION

A. Engage a factory-authorized service representative to train Owner's maintenance personnel to adjust, operate, and maintain overhead coiling doors.

END OF SECTION 083323