

DOCUMENT 00 90 00
ADDENDUM

ADDENDUM No.: 2

DATE: October 26, 2023

RE: LHA 2023 CAPITAL IMPROVEMENTS
MULTIPLE LOCATIONS – SEE DRAWINGS
LA CROSSE, WI
PROJECT NO. 23037

FROM: HSR Associates, Inc
100 Milwaukee Street
La Crosse, WI 54603
(608) 784-1830

TO: Prospective Bidders

This addendum forms a part of the Contract Documents and modifies the original Bidding Documents dated October 2023. Acknowledge receipt of this Addendum in the space provided on the bid form. Failure to do so may subject the Bidder to disqualification.

This Addendum consists of: 1 page, 0 documents, 2 sections, and 0 drawings.

CHANGES TO SPECIFICATIONS:

1. Section 08 71 00 Finish Hardware
 - a. See the revised section included in this addendum. Disregard the previous version.
 - b. 3.04 Hardware Schedule Hardware Group 1 – Remove “SE” from the model number of the Mortise Lockset. The revised group lists 45H714H 626 instead of 45H7T14H SE 626.
 - c. 3.04 Hardware Schedule Hardware Group 1A - Removed deadbolt from hardware group.
2. Section 12 21 16 Vertical Louver Blinds
 - a. See the new section included in this addendum.

CHANGES TO DRAWINGS

3. Sheet A303 FRAME ELEV., & DOOR SCHEDULE 30"x42"
 - a. See the narrative, immediately below, describing revisions to the sheet.
 - b. In door frame type AA, remove the word “Existing”. Provide a new door slab and frame.

PRIOR APPROVALS

4. Section 06 83 16 Fiberglass Reinforced Paneling
 - a. Add Glasteel FRP Class A (fire retardant) as a listed manufacturer subject to meeting all the requirements of the section.

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SECTION 08 71 00

FINISH HARDWARE

PART 1: GENERAL

1.01 RELATED DOCUMENTS

- A.** Conditions of the Contract and portions of Division One of this Project Manual apply to this Section as though repeated herein.

1.02 WORK INCLUDED

- A.** Furnish all finish hardware specified herein, listed in the hardware schedule, or required by the drawings.
- B.** Where items of hardware are not definitely or correctly specified and are required for the intended service, such omission, error, or other discrepancy should be directed to the Architect prior to the bid date for clarification by addendum. Otherwise, furnish such items in the type and quantity established by this specification for the appropriate service intended.

1.03 RELATED WORK

- A.** Section 08 11 13 – Hollow Metal Doors and Frames.
- C.** Section 08 14 16 – Flush Wood Doors.
- E.** Section 08 43 13 – Aluminum-Framed Storefronts: All hardware including cylinders to be supplied by 08 71 00. Manufacturer's standard weatherstrip and sweeps shall be supplied by aluminum door and frame supplier.
- F.** Section 08 44 13 – Glazed Aluminum Curtain Walls: All hardware including cylinders to be supplied by 08 71 00. Manufacturer's standard weatherstrip and sweeps shall be supplied by curtain wall frame supplier.

1.04 REFERENCES

- A.** A.D.A. - Americans with Disabilities Act.
- B.** ANSI ICC A117.1-2009: Specifications for making facilities accessible.
- C.** NFPA 80 - Standards For Fire Doors and Windows.
- D.** NFPA 101 - Life Safety Code.
- E.** U.L. - Building Material Directory.
- F.** D.H.I. - Recommended Locations for Architectural Hardware.
- G.** Applicable State and Local Building Codes, including IBC 2009.

1.05 SUBMITTALS

- A.** Submit five (5) copies of a detailed hardware schedule, vertical format. Prepare under the supervision of an AHC, registered Architectural Hardware Consultant, and under provisions of Division One.
 - 1. Itemize hardware in the sequence and format established by this specification.
 - 2. List and describe each opening separately. Include all doors with identical hardware,

- except hand, in a single heading. Include door number, room designations, degree of swing, and hand.
3. List related details. Include dimensions, door and frame material, and other considerations affecting hardware.
 4. List all hardware items to be supplied. Include manufacturer's name, quantity, product name, catalog number, size, finish, attachments, and related details where applicable.
 5. Resubmit five (5) copies of the corrected schedule when required.
- B. Keying Schedule:** After receipt of approved hardware schedule submit a copy of keying schedule as a result of a keying meeting between the Owner and the hardware supplier.
- C. Samples:** If so directed by the Architect, submit samples of finish hardware items for approval. Properly identify each sample as to make and number, and furnish in the specified finish.
- D. Templates:** Furnish a copy of approved hardware schedule, along with applicable templates for factory-prepared hardware to each door and frame fabricator.
- E. Electrical Hardware:** Submit electrical specifications and applicable information to the electrical contractor after receipt of the approved hardware schedule.
- F. Substitutions:** Submit under provisions of Division One. Provide detailed information and catalog cuts indicating the comparison to the specified hardware. If requested by the Architect, provide a sample accompanied by a sample of the specified item for comparison.

1.06 QUALITY ASSURANCE

- A. Qualifications:**
1. Manufacturer: Except where specified in the hardware schedule, furnish products of only one manufacturer for each type of hardware.
 2. Supplier: A company experienced in the builders' hardware industry for a minimum of two (2) years, and can call upon an AHC, registered Architectural Hardware Consultant, for consultation during the full extent of the project
- B. Regulatory Requirements:**
1. Furnish UL or Warnock Hersey listed hardware for all fire labeled and 20 minute openings in conformance with requirements for class of opening scheduled, whether specifically called for in this specification or not.
 2. Furnish hardware that conforms to all applicable state and local building codes, including IBC 2000 positive pressure testing requirements. Where specified hardware is not in conformance with applicable codes, such omission or error should be directed to the Architect prior to the bid date for clarification by addendum; otherwise furnish hardware as required by code.
- C. Training and Inspection:**
1. Hold pre-installation meeting to coordinate training of installation personnel. Installers shall be trained by manufacturer's representative.
 2. Manufacturer's representative shall inspect installation of hardware as part of substantial completion requirements.

1.07 DELIVERY, STORAGE AND HANDLING

- A. Deliver, store and handle in accordance with Division One. Mark each original container with a door number that corresponds to the approved hardware schedule for the installation location.
- B. Receive, inventory and store hardware in a secure and dry environment; protect against loss and damage.
- C. Report any shortages to the hardware supplier no later than 48 hours after receipt of delivery to the job site.
- D. Stockpile items sufficiently in advance to ensure their availability. Coordinate delivery, handling, and installation of hardware items to ensure orderly progress of total work, and minimize or eliminate losses and damage.

PART 2: PRODUCTS

2.01 ACCEPTABLE MANUFACTURERS

<u>Products</u>	<u>Specified</u>	<u>Acceptable</u>
Hinges	PBB	Stanley, McKinney, Hager
Locks and Latches	BEST	NO SUB
Push/Pull Latches	Rockwood	Trimco, Burns, Hager
Exit Devices	Precision	
Door Closers	Stanley	LCN
Auto Operators	Stanley	No Sub
Protective Plates	Rockwood	Burns, Hager
Overhead Stops/Holders	ABH	Dorma, Glynn Johnson
Wall Stops/Floor Stops	Rockwood	Trimco, Hager, DCI
Thresholds, Sweeps, Weatherstrip	Reese	National Guard Products, Pemko

2.02 HINGES

- A. Acceptable manufacturers and respective catalog numbers:

<u>Description</u>	<u>P.B.B.</u>	<u>Stanley</u>	<u>McKinney</u>	<u>Hager</u>
Std. Wt. Plain Bearing - Steel	PB81	F179	T2714	1279
Std. Wt. Ball Bearing - Steel	BB81	FBB179	TA2714	BB1279
Std. Wt. Ball Bearing -non ferrous	BB21/BB51	FBB191	TB2314	BB1191
Hvy. Wt. Ball Bearing Steel	4B81	FBB168	T4B3786	BB1168
Hvy. Wt. Ball Bearing – non ferrous	4B21/4B51	FBB179	T4B3386	BB1199

- B. Hinges supplied must be tested and comply with ANSI/BHMA standards for consistency, wear and corrosion resistance.
- C. Quantity: Furnish hinges for each door leaf as follows, unless otherwise noted in groups:
 - 1. Doors up to and including 90" high - 3 hinges.
 - 2. Doors over 90" high through 120" high - 4 hinges.
- D. Type: Furnish as follows, unless otherwise noted in groups:
 - 1. Standard weight, plain bearing hinge for interior openings through 36" wide without a door closer.

2. Standard weight, ball bearing hinge for interior openings over 36" through 40" wide with a door closer, and for interior openings through 40" wide with a door closer.
3. Heavy weight, four ball bearing hinge for all exterior openings unless noted in groups.

E. Size: Furnish as follows, unless otherwise noted in groups:

1. 1 3/4" doors: 4-1/2" x 4-1/2"
2. Provide proper hinge width to clear trim and allow full 180° swing.

F. Hinges for all lockable doors opening outward shall have non-removable pin (NRP). All other hinges shall have non-rising pins.

2.03 LOCKS AND LATCHES

A. Acceptable manufacturers and respective catalog numbers:

<u>Description</u>	<u>Best</u>
Cylindrical locks	9K3
Cylinders	Rim and Mortise 1E

B. Furnish lock types and functions as specified in the hardware schedule, and as follows:

1. Provide 2-3/4" backset.
2. Provide 2-3/4" x 1-1/8" "T" strike with a dust box for use in wood doors or frames.
3. Provide 4-7/8" x 1-1/4" ANSI strike for installation in a hollow metal door or frame.
4. Locksets to conform to ANSI A156.2, Series 4000, Grade 1 and be UL listed.

2.04 EXIT DEVICES

A. Acceptable manufacturers and respective catalog numbers:

<u>Description</u>	<u>Precision</u>
Wide Stile Rim	2100
Wide Stile Surf. Vert. Rod	2200
Wide Stile Conc. Vert. Rod	2800
Wide Stile Mortise	2300
Narrow Stile Rim	2400
Narrow Stile Conc. Vert. Rod	2600

B. Furnish exit device types and functions as specified in the hardware schedule.

C. Lever handles supplied with exit devices shall match the design specified for locks and latches.

2.05 PULLS, PUSHBARS, PUSH/PULL PLATES

A. Acceptable manufacturers and respective catalog numbers:

<u>Description</u>	<u>Rockwood</u>	<u>Trimco</u>	<u>Burns</u>
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B. Supply product as listed in groups or equal to acceptable manufacturers..

2.06 DOOR CLOSERS

- A. Acceptable manufacturers and respective catalog numbers:

<u>Description</u>	<u>LCN</u>	<u>STANLEY</u>
Heavy Duty Reg. Arm	4041	4450
Heavy Duty Parallel Arm	4041 EDA	4450 EDA
Heavy Duty Stop Arm	4041 CUSH	4450 CUSH

- B. Furnish complete with mounting brackets, drop plates, spacers, special shoes, and thru bolts as may be required by the door and frame conditions.

2.07 PROTECTIVE PLATES

- A. Acceptable manufacturers: Rockwood, Trimco, Burns, Hager.
- B. All kickplate heights shall be as listed in groups and 2" less door width single doors and 1" less for pairs.
- C. Thickness shall be .050" (16 gauge).

2.08 LOW ENERGY AUTOMATIC OPERATORS

- A. Acceptable manufacturers and respective catalog numbers:

<u>Description</u>	<u>STANLEY</u>
Operator -	D4990
Hard Wired Wall Switch	AS REQ
Wireless Wall Switch	CL4990 KIT
Wireless Receiver	CL4990 KIT

- B. Provide arms, mounting plates, sizes, stops, and any component that may be necessary to interface with electrified hardware that are required for complete and proper operation of the openings affected. Completed installation must meet or exceed requirements of ANSI A159.19.
- C. Provide actuators as detailed in groups.
- D. Conduit, electrical back boxes, wiring, and 120 VAC input power by Division 16 - Electrical.

2.09 OVERHEAD STOPS/HOLDERS

- A. Acceptable manufacturers and respective catalog numbers:

<u>Description</u>	<u>A.B.H.</u>	<u>Dorma</u>	<u>Glynn Johnson</u>
Heavy Duty Surface	9000	900	90
Heavy Duty Concealed	1000	910	100
Standard Duty Surface	4400	700	450
Standard Duty Concealed	4000	710	410

- B. Furnish an overhead stop if a door opens against equipment, casework, sidelights, or other objects that would make wall bumpers inappropriate, and as specified in the

hardware groups.

2.10 WALL STOPS

- A. Acceptable manufacturers and respective catalog numbers:

<u>Description</u>	<u>Rockwood</u>	<u>Hager</u>
Wrought Convex Wall	407	232W
Wrought Concave w/Toggle	409	237W

- B. When "wall stop" is called for in hardware group, provide 407 or 409. When overhead stops are required, they will be specified by product number in the group.
- C. Wall stops shall not be mounted to casework, cabinet work, sidelights, or equipment.

2.11 THRESHOLDS, SWEEPS, WEATHERSTRIP, DRIP CAPS, GASKET, ASTRAGALS

- A. Acceptable manufacturers and respective catalog numbers:

<u>Description</u>	<u>Reese</u>	<u>Pemko</u>	<u>National Guard</u>
Threshold	S205	171A	425A
Sweep	323	315N	200N
Sweep	967	18133CP	OV633
Weatherstrip	970	45100CP	603
Weatherstrip	DS78	315CR	130N
Gasket	797B	S88	1010

- B. Where specified in groups, furnish the above products unless otherwise detailed.

2.12 DOOR HARDWARE FINISHES

- A. Unless indicated otherwise in the groups provide finishes as follows:

1. Hinges, exterior:	US32D
2. Hinges, interior:	US26D
3. Flush Bolts:	US26D
4. Exit Devices:	US32D
5. Locks and Latches:	US26D
6. Pulls, Pushbars, Push/Pull:	US32D
7. Door Closers:	Painted Aluminum
8. Low Energy Automatic Operators:	Painted Aluminum
9. Protective Plates:	US32D
10. Overhead Stops:	Painted Aluminum
11. Wall Stops:	US32D
12. Gasket:	Black
13. Thresholds:	Mill Aluminum
14. Weatherstrip, Sweeps:	Clear Anodized Aluminum

2.12 KEYING

- A. The Hardware Supplier, in consultation with the Owner's authorized representative, shall prepare a detailed keying schedule. A copy of the final approved keying schedule bearing the signature of approval of the Owner's Representative shall be filed with the Architect. All locks shall be keyed into the same system as is used on the existing

building.

- B. Key locks in sets or subsets, master key and grand master key as directed by Owner.
- C. Furnish the required number of keys for each keyed group in quantity as directed by the Owner.
- D. Grand master and master keys shall be delivered by registered mail direct from the manufacturer to the Owner.

PART 3: EXECUTION

3.01 EXAMINATION

- A. Examine doors, frames, and related items for conditions that would prevent the proper application of finish hardware. Do not proceed until defects are corrected.

3.02 INSTALLATION

- A. Install each hardware item in strict compliance with the manufacturer's printed instructions and recommendations, using only fasteners supplied by, or called for by the manufacturer.
- B. Set units level, plumb and true to the line and location. Prepare and reinforce the attachment substrate as necessary for proper installation and operation.
- C. Mortise and cut to close tolerance and conceal evidence of cutting in the finished work. Drill and countersink units which are not factory prepared for anchorage fasteners.
- D. If manufacturer's instructions do not call out a mounting location, refer to the Door and Hardware Institute's publication *Recommended Locations for Architectural Hardware*.
- E. Deliver to the Owner one (1) complete set of installation and adjustment instructions, as well as all tools that were furnished with the hardware.

3.03 ADJUSTMENT AND CLEANING

- A. At final completion, adjust and check each operating item of hardware at each door to ensure proper operation and function of every unit. Lubricate any moving parts that do not operate freely, smoothly, and quietly using only lubricant as recommended by the manufacturer of the hardware item. Replace units that cannot be adjusted or lubricated to operate properly.
- B. Instruct the Owner's personnel in the proper adjustments of the hardware as needed.
- C. Clean and restore hardware to the original finish.

3.04 HARDWARE SCHEDULE

STOFFEL COURT

HARDWARE GROUP 1 (Base Bid)

EACH SINGLE DOOR TO HAVE:

DR.101,102,103,104,201,202,203,204,205,206,207,208,301,302,303,304,305,306,307,308,309,401,402,403,404,405,406,407,408,409,501,502,503,504,505,506,507,508,509,601,602,603,604,605,606,607,608,609,701,702,703,704,705,706,707,708,709,801,802,803,804,805,806,807,808,809,901,902,903,904,905,906,907,908,909,

2 EA HINGES	FBB179 4.5 X 4.5 652	STANLEY
1 EA SPRING HINGE	2060R 4.5 X 4.5 652	STANLEY
1 EA MORTISE LOCKSET	45H7T14H 626	BEST
1 EA DR VIEWER	U698 26D	IVES
1 EA WALL STOP	409 US32D	ROCKWOOD
1 EA SOUND GASKET	F797B17	REESE

CONTRACTOR TO REWORK EXISTING FRAMES STRIKES FROM A T STRIKE TO A 4-7/8 ANSI STRIKE TO WORK WITH NEW MORTISE LOCK. SUBJECT TO AHJ APPROVAL.

HARDWARE GROUP 1A (Deduct Alternate)

EACH SINGLE DOOR TO HAVE:

DR.101,102,103,104,201,202,203,204,205,206,207,208,301,302,303,304,305,306,307,308,309,401,402,403,404,405,406,407,408,409,501,502,503,504,505,506,507,508,509,601,602,603,604,605,606,607,608,609,701,702,703,704,705,706,707,708,709,801,802,803,804,805,806,807,808,809,901,902,903,904,905,906,907,908,909,

2 EA HINGES	FBB179 4.5 X 4.5 652	STANLEY
1 EA SPRING HINGE	2060R 4.5 X 4.5 652	STANLEY
1 EA ENTRANCE LOCK	9K37AB15DS3 626	BEST
1 EA DR VIEWER	U698 26D	IVES
1 EA WALL STOP	409 US32D	ROCKWOOD
1 EA SOUND GASKET	F797B17	REESE

BECKER PLAZA

HARDWARE GROUP 2

EACH SINGLE DOOR TO HAVE:

DR.102.1,102.2

3 EA HINGES	FBB168 4.5 X 4.5 652	STANLEY
1 EA PASSAGE LOCK	9K30N15DS3 626	BEST
1 EA CLOSER	HD8016 FH 689	BEST
1 EA KICKPLATE	34 X 34 B4E CS US32D	ROCKWOOD
2 EA EDGE GUARDS	305 34" TALL B4E CS US32D	ROCKWOOD
1 EA WALL STOP	409 US32D	ROCKWOOD
1 EA SOUND GASKET	F797B19	REESE

SOLBERG

HARDWARE GROUP 3

EACH SINGLE ALUM DR/FR TO HAVE:
DR.100

1 EA CONTINUOUS HINGE	BY ALUM FRAME/DR SUPPLIER	
1 EA EXIT DEVICE	2103 X CA03 613	PRECISION
1 EA RIM CYLINDER	12E72 613	BEST
1 EA OFFSET PULL	BF157 US10B	ROCKWOOD
1 EA CLOSER	HD8016 SDS 695	BEST
1 EA DROP PLATE	DP80 695	BEST
1 EA BLADE STOP	BS 695	BEST
1 EA CUSH SHOE SUPPORT	FTHD 695	BEST
1 EA THRESHOLD	S425A36	REESE
1 EA SWEEP AND WEATHERSTRIP	BY ALUM SUPPLIER	

HARDWARE GROUP 4

EACH SINGLE FRP DOOR TO HAVE:
DR.600,601,

2 EA HINGES	FBB199 4.5 X 4.5 630 NRP	STANLEY
1 EA STORERM LOCK	9K37D15DS3 626	BEST
1 EA CLOSER	HD8016 SDST 689	BEST
1 EA WEATHERSTRIP	815A36(2)48(2)	REESE

ENTRY FROM EXTERIOR AT ALL TIMES. ENTRY TO ROOF BY KEY ONLY.

HUBER

HARDWARE GROUP 5

EACH SINGLE DOOR TO HAVE:
DR.SHED DOORS

SEE PLANS FOR DETAILS

END OF SECTION 08 71 00

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SECTION 12 21 16
VERTICAL LOUVER BLINDS

PART 1 GENERAL

1.01 SECTION INCLUDES

- A. Vertical louver blinds at locations identified on plans.

1.02 RELATED REQUIREMENTS

- A. Applicable provisions of Division 1 shall govern the work of this section.
- B. Section 06 20 00 - Finish Carpentry: New wood trim at window head for mounting of blinds.

1.03 DEFINITIONS

- A. Light and Privacy Scale:
 - 1. Level Four (4): Diffuses the light and reveals no shape or details to the outside. Provides complete privacy and room-darkening options.

1.04 REFERENCE STANDARDS

- A. WCMA A100.1 - Safety of Corded Window Covering Products; Current Edition, Including All Revisions.
- B. NFPA 701 - Standard Methods of Fire Tests for Flame Propagation of Textiles and Films; 2015.

1.05 SUBMITTALS

- A. See Section 01 30 00 - Administrative Requirements, for submittal procedures.
- B. Product Data: Manufacturer's data sheets on each product to be used, including:
 - 1. Preparation instructions and recommendations.
 - 2. Storage and handling requirements and recommendations.
 - 3. Installation methods.
 - 4. Operation and Maintenance Data: Manufacturer's data on repair and replacement of vanes, chains, and other parts.
- C. Certification: Provide certification that product complies with WCMA A100.1.
- D. Selection Samples: For vanes, color chips or material samples representing manufacturer's full range of available colors and patterns.

1.06 DELIVERY, STORAGE, AND HANDLING

- A. If blinds are delivered early and stored at the project, deliver in unopened containers; handle and store in such a manner to protect them from damage.

1.07 PROJECT CONDITIONS

- A. Coordinate the work with window installation and placement of concealed blocking to support blinds where required.
- B. Take field measurements to determine actual sizes required.

1.08 EXTRA MATERIALS

- A. See Section 01 60 00 - Product Requirements, for additional provisions.
- B. Supply 10 extra vanes of each size for Owner's use in maintenance of project.

1.09 WARRANTY

- A. Owner's standard 10 year warranty against original defects in materials and workmanship from substantial completion.

PART 2 PRODUCTS

2.01 MANUFACTURERS

- A. Vertical Louver Blinds: BL-1
 - 1. Hunter Douglas: www.hunterdouglas.com.
 - 2. Levolor Contract: www.levolorcontract.com.
 - 3. Graber, Division of Springs Industries, Inc: www.graberblinds.com.
 - 4. The Blindman Commercial: www.theblindmancommercial.com
 - 5. SWF Contract Shading Systems: www.swfcontract.com
 - 6. Wisconsin Draperies; www.wiscdrapery.com
 - 7. Substitutions: See Section 01 60 00 - Product Requirements.

2.02 BLINDS AND BLIND COMPONENTS

- A. Vertical Louver Blinds: Horizontal travel, vertical vane louver units complete with tracks, pivot and traversing mechanisms, and accessories, as follows:
 - 1. Vanes: Fabric vanes of the size indicated.
 - 2. Operation: Manual.
 - 3. Direction of Travel: Bi-parting at 6 foot wide windows. Draw back left or right to adjacent wall side. Confirm with Owner. See Drawings, field verify all openings prior to fabrication.
 - 4. Mounting: Outside (face of jambs).
 - 5. Cord and Chain Operation: Comply with WCMA A100.1.
- B. Tracks: Channel tracks as required for type of operation, extruded aluminum with baked enamel finish, with end caps.
 - 1. Dimensions: Manufacturer's standard, selected for suitability for installation conditions, span, and weight of vanes.
 - 2. Vane Rotation: Chain driven direct rotation by activating tilt gear within end cap assembly in turn actuating tilt rod and worm-and-spur gears in carrier trucks.
 - 3. Operating Components: Internally mounted heavy-duty extruded aluminum tilt rod, vane carriers, and other components required for proper performance and designed for smooth, quiet, trouble free operation.
 - 4. Pivot Mechanism: Geared for synchronous 180 degrees rotation of vanes and type of operation indicated.
 - 5. Louver Carriers: Metal carriers at fabric vanes, plastic carriers at PVC vanes with stainless steel trucks, equipped with linkages or other devices to ensure positive spacing of louver blades.
 - 6. Tilt Chain: Nickel plated brass beaded ball chain, minimum 1/8 inch diameter; locate at drawback side of units as indicated.
 - 7. Minimum louver overlap: 3/8 inch.
 - 8. Stack release to allow all louvers to be moved for window cleaning.
 - 9. Louver Hooks: Replaceable without disassembling track.
- C. Fabric Vanes: Integrally colored, 55 percent cotton + 45 percent PES; flat, 3-1/2 inches (80mm) wide, washable and dust resistant with steel weight in each vane.
 - 1. Thickness: 0.023 to 0.032 inches, minimum.
 - 2. Flammability: Comply with NFPA 701.
 - 3. Fabric Color and Texture: As selected by Architect from manufacturer's full range of colors.
 - 4. Vane Weight: Steel, all vanes.
 - 5. Light and Privacy: Equivalent to level four as defined herein.
- D. Brackets and Mounting Hardware: Heavy duty brackets for the mounting configuration and span indicated; provide manufacturer's standard L- bracket with clip for outside mounting and clip only for inside mounting.
- E. Valances: To matching fabric, round corner returns, all one piece.
 - 1. Style: As selected by Architect from blind manufacturer's full selection.

2.03 FABRICATION

- A. Field measure finished openings prior to ordering or fabrication.
- B. Fabricate blinds to fit openings within specified tolerances.
 - 1. Vertical Dimensions: Outside fit with 3 inch extension beyond sill.
 - 2. Horizontal Dimensions - Outside Mounting: Cover window frames, trim, and casings completely.
- C. Dimensional Tolerances: Fabricate blinds to within plus/minus 1/8 inch of intended dimensions.

PART 3 EXECUTION

3.01 EXAMINATION

- A. Do not start installation before openings are finished and all finishes have been completed; do not install until painting is completed.
- B. Examine finished openings for deficiencies that may preclude satisfactory installation.
- C. If substrate preparation is the responsibility of another installer, notify Architect of unsatisfactory preparation before proceeding.
- D. Start of installation shall be considered acceptance of substrates.
- E. Field measure finished openings prior to ordering or fabrication.

3.02 PREPARATION

- A. Remove and dispose of existing blinds and hardware. ANY REQUIRED PATCHING WILL BE BY OWNER.
- B. Prepare surfaces using the methods recommended by the manufacturer for achieving the best result for the substrate under the project conditions.
- C. Coordinate the work with window installation and placement of concealed blocking to support blinds.

3.03 INSTALLATION

- A. Install in accordance with manufacturer's instructions using mounting style as indicated.
- B. Installation Tolerances:
 - 1. Maximum Offset From Level: 1/16 inch.
- C. Adjust blinds for smooth operation.
- D. Replace blinds that exceed specified dimensional tolerances at no extra cost to Owner.

3.04 CLEANING

- A. Clean installed work to like-new condition.
- B. TOUCH-UP, REPAIR OR REPLACE DAMAGED PRODUCTS BEFORE DATE OF SUBSTANTIAL COMPLETION.

3.05 PROTECTION

- A. Protect installed products until completion of project.
- B. Touch-up, repair or replace damaged products before Date of Substantial Completion.

END OF SECTION

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