

DOCUMENT 000201 - ADDENDUM NUMBER 1

Date: 09 November 2015

PROJECT MANUAL FOR: PEORIA ZOO TAKIN ENCLOSURE
Glen Oak Park Zoo
2218 N. Prospect Road
Peoria, IL 61603

ARCHITECT: **apace**Design Architects + Engineers
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To: PROSPECTIVE BIDDERS

Subject: ADDENDUM NUMBER 1 TO THE BIDDING DOCUMENTS FOR:

PEORIA ZOO TAKIN ENCLOSURE
Glen Oak Park
2218 N. Prospect Road
Peoria, IL 61603

This Addendum forms a part of the Bidding and Contract Documents and modifies the original bidding documents, dated 29 September 2015. Acknowledge receipt of this addendum in space provided on Bid Form. FAILURE TO DO SO MAY SUBJECT BIDDER TO DISQUALIFICATION.

PROJECT MANUAL

A. Section 077253, Snow Guards.

1. Snow guards should be installed on each roof slope of the Building approximately 2'-0" from eave, and be continuous. Total of (4).
2. Reference Paragraph 2.2.A.3: Delete "Clear anodized" and replace with "**Kynar Coated finish to match standing seam metal roof system.**"

B. Section 087000, Door Hardware.

1. Insert attached Section 087000, Door Hardware (9 pages), into Project Manual.

DRAWINGS

A. Sheet E001:

1. Reference Keyed Electrical Notes:
 - a. Modify Keyed Electrical Note #3:
 1. To require contractor to locate all existing underground conductors for the electrical service, feeders, and branch circuits, and to maintain markings throughout the project.
 2. To remove existing treated post, chained to utility pole, and remount remaining service riser, meter, and disconnect on existing utility pole. Adjust associated conduits and conductors, as required for reposition.

B. Sheet E200:

1. Change panel schedule to indicate 100 amp, 2-pole main breaker.
2. Reference Keyed Electrical Notes:
 - a. Modify Keyed Electrical Notes #8 and #9 to indicate remounting of existing riser, meter, and disconnect switch to existing utility pole, after removal of existing treated post.

Except as changed herein, all previous bidding documents remain in full force and effect.

This addendum consists of two (2) typewritten pages and one attached Door Hardware Section 087000 (9 pages) for a total of 11 pages.

SECTION 087000 - DOOR HARDWARE

PART 1 - GENERAL

1.1 WORK INCLUDES:

A. PROVIDE:

1. Standard Builders Hardware
2. Thresholds and Weatherstripping
3. Templates
4. Hardware Schedule
5. Keying System

1.2 RELATED WORK:

A. SPECIFIED ELSEWHERE:

1. 013300 - Submittal Procedures
2. 081113 - Hollow Metal Doors and Frames

1.3 REFERENCES:

A. Reference and Standards: Where cited, and except as modified by Project Specifications, applicable standards of following organizations apply:

1. American National Standards Institute (ANSI)
2. Builders Hardware Manufacturers Association (BHMA)
3. Door Hardware Institute (DHI)
4. National Fire Protection Association (NFPA)
5. Steel Door Institute (SDI)
6. Underwriters Laboratories (UL)

1.4 SYSTEM DESCRIPTION:

A. Performance Requirements:

1. Provide hardware for fire-rated openings in compliance with NFPA 80.
2. Provide hardware tested and listed by Underwriters Laboratories or other approved testing agency.

1.5 SUBMITTALS:

A. Make submittals in accord with Section 01340.

B. Hardware Schedule: Submit six copies of a typed vertical style hardware schedule on 8-1/2 x 11 sheets. Schedule openings by door number and locations. Indicate door and frame material, dimensions, hand, degree of opening, label condition and special information. Hardware items shall include product description and number, finish, hand, size, keying, template and special requirements. The scheduling sequence and format shall be as recommended by DHI.

C. Samples: Upon Architect / Engineer's request, submit samples showing function, finish, and design of proposed hardware items. Samples

remain suppliers property and will be returned to him prior to project completion.

- D. Samples and Templates: Furnish to manufacturer of wood and metal doors and frames as required for proper hardware reinforcement and preparation of their work. If required, furnish physical hardware to the door and frame manufacturer for application.
- E. Catalog Cuts: Submit two sets of each type of hardware item used.

1.6 QUALITY ASSURANCE:

A. Qualifications:

- 1. Contractor is responsible for:
 - a. Proper application and fit of door and specialty hardware in locations as indicated on drawings or as specified.
 - b. Items not specifically mentioned, but necessary to complete work are to be furnished matching in quality and finish of specified items in similar locations.
 - c. Coordinate dimensions between hardware items.
 - d. Furnish and install only hardware items listed on approved door hardware submittal.
- 2. Contractor's selection of hardware supplier:
 - a. Select recognized builders hardware supplier who has been furnishing hardware in area of project for a period not less than five years.
 - b. Recognized supplier to have on staff an Architectural Hardware Consultant (AHC) certified by the Door and Hardware Institute.
 - c. Hardware supplier's AHC to be available at all reasonable times during course of work to meet personally with Owner, Architect or Contractor for hardware consultation.

1.7 DELIVERY, STORAGE AND HANDLING:

- A. Delivery: Deliver items in manufacturer's original package. Each item Individually packaged and carefully marked for intended opening and use. Each item complete with necessary screws, bolts, keys, instructions, and where necessary, installation templates.
- B. Storage: Protect materials on the job and during installation. Provide a secure, locked, dry storage area or room in the building. Store off the floor on temporary shelving.
- C. Handling: Handle items in a manner to prevent damage. Marred, defaced, damaged, and defective items will be rejected.

1.8 WARRANTY:

- A. Special Warranties: Submit manufacturer's standard written product warranty signed by manufacturer's authorized official, guaranteeing to repair or replace defective products during following warranty periods.
 - 1. Door Closers - 10 Year Warranty

- 2. Door Closers with Electric Components - 2 Year Warranty
- 3. Exit Devices - 3 Year Warranty

PART 2 - PRODUCTS

2.1 MANUFACTURERS:

- A. Catalog numbers of manufacturers listed in Column 1 have been used in the hardware sets to establish quality required. Manufacturers listed in Columns 2 & 3 are approved substitutes.
- B. It is the intent that approved door hardware be provided for every door on the project. Doors inadvertently omitted from the schedule shall be provided with hardware equal to doors of similar function.

<u>ITEM</u>	<u>1</u>	<u>2</u>	<u>3</u>
Hinges	Hager	Ives	
Locks & Cylinders	Sargent	No Substitute	
Closers	Sargent	No Substitutes	
Stops, Flush Bolts	Hager	Ives	Rockwood
Weatherstrip, Thresholds	Pemko	National	

- C. Designations: Following abbreviations to identify list manufacturers.

Hager	C. Hager & Sons, St. Louis, MO
Ives	Ives, Indianapolis, IN
National	National Guard, Memphis, TN
Pemko	Pemko Mfg., Memphis, TN
Rockwood	Rockwood Mfg., Rockwood, PA
Sargent	Sargent Lock, New Haven, CT.

2.2 MATERIALS:

- A. Screws, Fasteners, and Tools:
 - 1. Finish exposed fasteners to match item fastened. Make fasteners of the same metal as item fastened, except use stainless steel for aluminum items.
- B. Hinges:
 - 1. Interior door hinges: steel, plated .134 minimum thickness except as noted. Provide heavy weight .180 minimum thickness on doors wider than 3'0. Exterior door hinges: heavy weight .180 minimum thickness.
Hinge size 4-1/2 x 4-1/2 unless otherwise noted in this schedule.
 - 2. Provide quantities as follows unless otherwise noted in the schedule:
 - a. For doors up to 60 inches in height, provide 1 pair of hinges; for doors 60 inches to 90 inches in height, provide 1-1/2 pairs of hinges; for doors over 90 inches and up to 120 inches in height, Provide 1 additional hinge for each 30 inches of height.

3. Manufacturers / Series:

<u>Hager</u>	<u>Ives</u>
BB1199	5BB1HW
BB1168	5BB1HW
BB1279	5BB1

C. Locks and Latches:

1. Locks and latches shall be heavy duty mortise type, in accord with ANSI standard A156.13-1994, Series 1000, Grade 1.

2. Design:

a. Lever trim, LNL

3. Manufacturer/Series

Sargent

8200

D. Closers

1. Provide door closers with features, functions and options shown in the hardware sets. Sargent 351 Series.

2. Materials and construction: High strength cast aluminum cylinder with full rack and pinion action. Spring power adjustable to 50%. Provide separate non-critical screw valves for regulation of latch speed, sweep speed, and back check. Hydraulic fluid type requiring no seasonal adjustment for temperatures ranging from 120 degrees F to -30 degrees F.

3. Provide brackets, drop plates, spacer blocks, and accessories to insure proper installation.

4. Parallel arms, extra duty forged steel main arm, forearm and shoe.

E. Kickplates:

1. Kickplates: .050 stainless steel 10 inches high (except reduce height ½ inch less than bottom rail when required) x 2 inches less than door width on singles and 1 inch less on pairs. Fasteners full threaded, countersunk, undercut screws.

F. Stops, Flush Bolts, Dust Proof Strikes:

1. Manufacturers / Series:

<u>Hager</u>	<u>Ives</u>	<u>Rockwood</u>
236W	WS407CVX	400
232W	WS407CCV	403
283D	358	557
243F	438	442
282D	458	555
280X	DP2	570

G. Thresholds:

1. Aluminum fluted ½ x 5 inch. Supply stainless steel machine screws and expansion anchors.

2. Manufacturers / Series:

<u>Pemko</u>	<u>National</u>
171A	425E

H. Door Bottoms and Weatherstripping:

I. Manufacturers / Series:

<u>Pemko</u>	<u>National</u>
315CN	200NA
S88D	5050B

2.3 FINISHES:

	<u>US SYMBOL</u>	<u>ANSI SYMBOL</u>	<u>DESCRIPTION</u>
Hinges, Exterior	US32D	630	Satin Stainless Steel
Locks	US26D	626	Satin Chrome
Stops, Flush Bolts	US26D	626	Satin Chrome

2.4 KEYS AND KEYING:

A. Cylinders: Interchangeable core Sargent. Master key to owner's existing system as required.

B. Keys: Standard bow embossed on one side. Provide cut keys as follows:

1. Master keys - 10 each, maximum
2. Change keys - 4 each per change, maximum

PART 3 - EXECUTION

3.1 EXAMINATION:

A. Verify doors and frames are ready to receive work and dimensions are as indicated on shop drawings or as instructed by manufacturers.

B. Verify power supply is available to electrically operated devices.

C. Beginning of installation means acceptance of existing conditions.

3.2 INSTALLATION:

A. General:

1. Install each hardware item in accordance with each manufacturer's instructions and recommendations.
2. Install no hardware until substrate finishes are complete.
3. Wherever cutting and fitting is required to install hardware onto or into surfaces, which are later to be painted or otherwise finished, install each item completely then remove and stored during application of finishes; Reinstall upon completion of finishing operations.
4. Set items level, plumb and true to line and location.
5. Adjust and reinforce attachment substrate as necessary for a Secure installation.
6. Drill and countersink items not factory prepared for fasteners.
7. Space fasteners and anchors per manufacturer's instructions and in accordance with industry standards.
8. Do not install hardware on doors, which have been improperly prepared.
9. Attach wall mounted hardware to concealed wall blocking. Do not install wall mounted hardware where wall blocking has not been installed and arrange for blocking to be installed before proceeding.

B. Fire-Rated Openings:

1. In addition to previous requirements, conform to NFPA 80 and BOCA covering installations of fire door assemblies.
2. Refer to instructions from door and frame manufacturer's regarding special hardware installation requirements, including function holes, undercutting and minimum clearances between hardware cutouts.

C. Installation Templates, Instruction Sheets and Schedules: Retain copies of templates, instruction sheets, schedules, installation details and similar data regarding hardware, maintenance and servicing. See Part 1 under Contract Closeout Submittals for assembly and distribution of data.

D. Mounting Heights: Heights given are centerline heights ups from finish floor unless stated: Heights given "Number to Number" indicate one height within limits given. Where heights of items are not listed, install in accordance with recommendations of DHI.

- | | |
|-----------------------|----------------------------|
| 1. Bottom Hinge | 10 to 13 inches from floor |
| 2. Top Hinge | 6 to 8 inches from head |
| 3. Intermediate Hinge | Equally spaced |
| 4. Lock Lever | 36 to 40-5/16 inches |
| 5. Deadlocks | 48 inches |
| 6. Push Bar | 42 inches |
| 7. Push Plate | 45 inches |
| 8. Pull | 42 inches |

- E. Installation Requirements: In addition to mounting heights specified above, install hardware as follows:
1. Hinges:
 - a. Hang doors within following tolerances: 1/8" maximum between door and frame, and 1/8" maximum between meeting edges of pairs of doors.
 - b. Provide under door clearance at fire assemblies per NFPA 80.
 - c. Where shimming is necessary for proper door / frame installation, use only metal shims.
 - d. Install electric hinges or pivots as center hinge or second hinge from Bottom where doors have 2 pairs of hinges.
 2. Locks: Install only curved lip strikes and dust box behind each strike.
 3. Exit Devices:
 - a. Center exit device cases on door stiles, and equally spaced from each door edge, unless required otherwise by manufacturer's templates or instructions.
 4. Closers:
 - a. Install closers to permit maximum degree of door swing allowed by job conditions. Follow manufacturer's instructions.
 5. Door Stops:
 - a. Install stops to permit maximum degree of door swing allowed by job conditions.
 - b. Locate floor stops so as not to create a tripping hazard, and to catch door at a point 6 inches in from latch edge, but in no case further than 1/3 door width measured from latch edge.
 - c. Wall stops intended for knobs and levers are to be located centered on spindle.
 6. Doorplates: (Armor, Kick and Mop Plates)
 - a. Armor and kick plates: Install on push side of single acting doors.
 - b. Unless otherwise indicated install 1/4 inch up from door bottom.
 7. Threshold:
 - a. Scribe and cut to fit profiles of door jambs with mitered corners and precision made joints.
 - b. Join units with concealed welds or concealed mechanical devices.
 - c. Cut smooth openings for mullions, bolts and similar items.
 - d. At exterior doors and elsewhere as indicated, set thresholds in bed of butyl rubber sealant, completely fill voids to exclude moisture.
 - e. At exterior doors, install bevel of threshold aligned with exterior face of door, unless indicated otherwise by detail or threshold manufacturer's instructions.
 - f. Install thresholds level.
 - g. Do not install thresholds over carpet. At fire rated doors do not install the thresholds over any finish material, unless material is noncombustible, e.g. ceramic tile, terrazzo or concrete.

F. Miscellaneous Hardware:

1. Push / Pull Sets: Center push / pull sets on doors stiles unless Noted otherwise on plans. Mount push bar centered 42 inches above finished floor.

3.3 ADJUSTING:

A. Adjusting & Cleaning:

1. Adjust and check each item of hardware and each door to insure proper operation and function of each unit.
2. Lubricate moving parts with graphite-type lubricant unless otherwise recommended by manufacturer.
3. Replace hardware, which cannot be lubricated and adjusted to operate freely and smoothly.
4. Final Adjustment:
 - a. Whenever hardware installation is made more than 1 month prior to acceptance of work, make final adjustment and check of hardware during week immediately prior to acceptance, unless otherwise directed by Architect.
 - b. Clean and re-lubricate operation items as necessary to restore proper functioning and finish of hardware and doors.
 - c. Make final adjustment of locksets and closers to compensate for operation of heating and ventilating systems under supervision of manufacturer's representative.

3.4 PROTECTION AND CLEANING:

A. Installed Hardware: Protect door hardware against damage.

B. Installed Doors:

1. Do not prop doors open using any item wedged between hinge jamb and door.
2. Use only rubber stops, cardboard or rope.
3. Do not use unprotected wood wedges under wood doors.
4. Do not use bare wire or other unprotected means of securing doors in open position, which may mar door or hardware.

C. Job Acceptance: Prior to acceptance of job, clean hardware surfaces on both interior and exterior doors of mortar, plaster, paint caulking and other contaminants. Replace hardware damaged after installation where finish cannot be restored after cleaning.

3.5 DEMONSTRATION:

A. Instructions: Provide instruction in operation and maintenance of key control System.

3.6 HARDWARE SCHEDULE:

- A. Provide and install hardware conforming to project specifications in sets according to the following schedule.

HDWE. SET 01

Doors 01, 02

Each Door to Have:

	Hinges BB1199 NRP
1	Lockset 8204 LNL
1	Closer 351-H
1	Kickplate
1	Threshold 171A
1	Door Sweeps 315CN
1	Weatherstrip S88D
1	Wall Stop 232W

End Section 087000

Peoria Zoo Takin Nighthouse Pre-Bid Guest Register**Tuesday, November 3, 2015**

Name	Company	Address	Phone / Fax	Email
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Gary Clark	Ruyle	Bond St., Peo	309-267-0838	gclark@ruylecorp.com
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