ADDENDUM NO. 1
December 19, 2019

City of Pacific
100 3rd Avenue SE
Pacific, WA 98047

City of Pacific – Public Works Building

To: All Holders of Contract Documents

This addendum forms a part of the Contract Documents and modifies the original Specifications and Drawings, bid date December 23, 2019.

Acknowledge receipt of this addendum on the Bid Proposal. Failure to do so may subject the bidder to disqualification.

This addendum consists of:

Twenty Six (26) pages of text (including this cover sheet).
Two (2) pages of drawing revisions

BID

Notice is hereby given that sealed proposals will be received by the City of Pacific at City Hall, 100 3rd Avenue SE, Pacific, Washington 98047 until 11:00 a.m. local time on January 15, 2020 for the City of Pacific Public Works Shop located at 224 County Line Road SW. Bids received after that date and time, even if mailed earlier, will not be accepted. Any questions may be referred to: Jim Morgan, Public Works Manager, (253) 929-1113.

PROJECT QUESTIONS

1. Is Builders Risk Insurance required?
   The contractor is required to provide Builders Risk Insurance for this project.

2. Who is responsible for relocating the existing generator at the well field to the public works site on County Line Road?
   The City will relocate the generator to the site with coordination from the contractor on the date and time.

3. We were unable to locate specifications related to the overhead doors. Please provide further direction. Please also clarify sizes/dimensions, as the elevations, floor plan, and door schedule differ.
   Specifications for the doors are located below in this Addendum No. 1.

4. Are sewer connections to the street completed?
   The City has extended all utilities (Sewer, storm, water) onto the site with other contractors.

5. What are the working hours?
   Due to the close proximity of the project to neighboring residences, the hours of work are 8:00 am to 6:00 pm. Occasional exception may be granted. Requests for changes require a
minimum of 48 hours notice.

6. What is anticipated turn around time on submittals?
   The design team will review and return complete submittals within 10 working days.

7. What colors and textures are required for the masonry units on the building?
   The color and texture of the masonry units shall match the existing buildings on site.

8. Does the City have office space within the building for the contractor?
   The City will provide a small _x_ office for contractor use.

9. Where is sheet A6.1: Schedules and Details?
   The Sheet Index is revised to:
   
   **ARCHITECTURAL DRAWINGS**
   A0.1 SITE PLAN
   A1.1 FLOOR PLAN
   A2.1 MEZZANINE PLAN
   A3.1 ROOF PLAN
   A4.1 BUILDING ELEVATIONS
   **A4.2 BUILDING ELEVATIONS**
   A5.1 BUILDING SECTIONS
   **A6.1 SCHEDULES AND DETAILS**

10. What is the anticipated schedule for the irrigation and landscaping?
    The irrigation and landscaping schedule are an issue to be determined between the prime and sub-contractors based upon the specifications.

11. Will there be a need for any additional systems other than fire alarm that are not shown on the drawings set? Intrusuiion, Access Control or CCTV systems?
    A conduit from the shop building to the office building is required for the potential future installation of other systems.

12. What is the estimate start date or bidding time line for the project?
    Bid opening has been rescheduled to January 15, 2020. The contract is scheduled for award on January 27, 2020. Notice to proceed will occur within two weeks after award unless otherwise negotiated. Time for construction will be 180 working days after notice to proceed.

13. What is the Liquidated Damages amount?
    The formula for calculating Liquidated Damages can be found in WSDOT Standard Specification 1-08.9.

14. Specification section 133419, paragraph 2.5.A calls for trapezoidal standing seam roof panels and 2.5.B calls for exposed fastener, PBR roof panels. If a weathertightness warrant is required, then the standing seam roof panel is required. Please confirm if the roof panel is standing seam panel or exposed fastener PBR panel.
    A 20 year weathertightness warranty is required. If the manufacturer’s exposed fastener roof system is unable to meet the weathertightness warranty requirements, then a standing seam metal roof would be required.

15. Paragraph 2.5.C calls for Two-Coat Fluropolymer (Kynar) premium colors and silicone-polyester colors. Please confirm if the finish of the roof and wall panels are either standard TWO-coat colors.
Fluropolymer or silicone-polyester

A standard two-coat fluropolymer (Kynar) finish is acceptable for roof and wall panels.

16. Please clarify sizes / dimensions for sectional doors, as the elevations, floor plans, and door schedule differ.

The sectional door sizes shown on the architectural floor plans and elevations (16'-0” x 16'-0”) are correct.

17. Is the pre-engineered building being provided by the owner?

The owner is not providing the pre-engineered building.

18. M2.1, note 1 read: 20/8 drop through mezzanine floor. Provide PVC shielding up to 3’ AFF. Please clarify the design intent for the PVC shielding. Is this in place to “weather barrier” the duct from the emergency shower?

The shielding is to protect the ductwork from being dislodged or damaged.

19. M2.1, note 1 read: 20/8 drop through mezzanine floor. Provide PVC shielding up to 3’ AFF. Please clarify the design intent for the PVC shielding. Is this in place to “weather barrier” the duct from the emergency shower?

The shielding is to protect the ductwork from being dislodged or damaged.
### ACORD CERTIFICATE OF LIABILITY INSURANCE

**Producer:**
Hurley, Atkins & Stewart, Inc.  
1800 Ninth Ave., #1500  
Seattle WA 98101  
Phone: 206-682-5656

**Insurers Affording Coverage:**

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<th>INSURER A:</th>
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<th>INSURER C:</th>
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**CovRages:**

The policies of insurance listed below have been issued to the Insured named above for the policy period indicated. Notwithstanding any requirement, term or condition of any contract or other document with respect to which this certificate may be issued or may pertain, the insurance afforded by the policies described herein is subject to all the terms, exclusions and conditions of such policies. Aggregates limits shown may have been reduced by paid claims.

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**Description of Operations/locations/Vehicles/Exclusions Added by Endorsement/Special Provisions:**

**Certificate Holder:**

Additional Insured: Insurer Letter: 

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**Cancellation:**

Should any of the above described policies be cancelled before the expiration date thereof, the issuing insurer will endeavor to mail _____ days written notice to the certificate holder named to the left. But failure to do so shall impose no obligation or liability of any kind upon the insurer, its agents or representatives.

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### SPECIFICATION ADDITIONS, REVISIONS

**City of Pacific**

**Public Works Shop Project**

**Addendum No. 1**

**December 19, 2019**

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**STATEMENT OF INTENT TO PAY PREVAILING WAGES**

**Public Works Contract**

**$40.00 Filing Fee Required**

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<th>Project Name</th>
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<th>Will all work be subcontracted?</th>
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<th>Responding “Yes” to either of the questions above will then require you to list the subcontractor’s UBI # and Contractor Registration # (if they are required to have one) on Addendum B of the Affidavit of Wages Paid form.</th>
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<th>Number of Owners/Operators that own at least 30% of the company who will perform work on the project</th>
<th>Will employees perform work on this project:</th>
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<td>If “Yes”, please list worker’s craft/trade/occupation below. (If you choose “No” and this changes later, you certify that you will submit a new form listing workers.)</td>
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<th>Craft/trade/occupation. (Do NOT list apprentices.) When using employees in more than one craft, each craft transition must be accurately recorded on the time sheet.</th>
<th>Estimated number of workers</th>
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<th>Rate of hourly fringe benefits</th>
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(White & canary copies must be submitted; canary will be retained by L&I after approval.)

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**City of Pacific**

**Public Works Shop Project**

**Addendum No. 1**

**December 19, 2019**

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SECTION 083613 - SECTIONAL DOORS

SUPPLEMENT with the following:

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. Sectional-door assemblies.

1.3 ACTION SUBMITTALS

B. Product Data: For each type and size of sectional door and accessory.

1. Include construction details, material descriptions, dimensions of individual components, profile door sections, and finishes.
2. For power-operated doors, include rated capacities, operating characteristics, electrical characteristics, and furnished accessories.

C. Shop Drawings: For each installation and for components not dimensioned or detailed in manufacturer's product data.

1. Include plans, elevations, sections, and mounting details.
2. Include details of equipment assemblies. Indicate dimensions, required clearances, method of field assembly, components, and location and size of each field connection.
3. Include points of attachment and their corresponding static and dynamic loads imposed on structure.
4. Include diagrams for power, signal, and control wiring.

D. Samples: For each exposed product and for each color and texture specified, in manufacturer's standard size.

E. Samples for Initial Selection: For units with factory-applied finishes.

1. Include Samples of accessories involving color selection.
1.4 INFORMATIONAL SUBMITTALS

A. Qualification Data: For Installer.

B. Sample Warranties: For manufacturer's warranty.

1.5 CLOSEOUT SUBMITTALS

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

B. Manufacturer's warranty.

C. Finish warranty.

1.6 QUALITY ASSURANCE

A. Installer Qualifications: An entity that employs installers and supervisors who are trained and approved by manufacturer for both installation and maintenance of units required for this Project.

1.7 WARRANTY

B. Manufacturer's Warranty: Manufacturer agrees to repair or replace components of sectional doors that fail in materials or workmanship within specified warranty period.

1. Failures include, but are not limited to, the following:

   a. Structural failures including, but not limited to, excessive deflection.
   b. Failure of components or operators before reaching required number of operation cycles.
   c. Faulty operation of hardware.
   d. Deterioration of metals, metal finishes, and other materials beyond normal weathering and use; rust through.
   e. Delamination of exterior or interior facing materials.

2. Warranty Period: Five years from date of Substantial Completion.

C. Finish Warranty: Manufacturer agrees to repair or replace components that show evidence of deterioration of factory-applied finishes within specified warranty period.

1. Warranty Period: 10 years from date of Substantial Completion.

PART 2 - PRODUCTS

2.1 MANUFACTURERS, GENERAL

A. Source Limitations: Obtain sectional doors from single source from single manufacturer.
1. Obtain operators and controls from sectional door manufacturer.

2.2 PERFORMANCE REQUIREMENTS

A. General Performance: Provide sectional doors that comply with performance requirements specified without failure from defective manufacture, fabrication, installation, or other defects in construction.

B. Structural Performance, Exterior Doors: Capable of withstanding the design wind loads.

1. Design Wind Load: As indicated on Drawings.
2. Deflection Limits: Design sectional doors to withstand design wind loads without evidencing permanent deformation or disengagement of door components.
   a. Deflection of door sections in horizontal position (open) shall not exceed 1/120 of door width.
   b. Deflection of horizontal track assembly shall not exceed 1/240 of door height.

3. Operability under Wind Load: Design sectional doors to remain operable under design wind load, acting inward and outward.

2.3 SECTIONAL-DOOR ASSEMBLY

A. Steel Sectional Door: Provide sectional door formed with hinged sections and fabricated so that finished door assembly is rigid and aligned with tight hairline joints; free of warp, twist, and deformation; and complies with requirements in DASMA 102.

1. Manufacturers: Subject to compliance with requirements, provide products by one of the following:
   a. Arm-R-Lite.
   b. BP - Glass Garage Doors & Entry Systems, Inc.
   c. C.H.I. Overhead Doors, Inc.
   d. Clopay Building Products.
   e. ENTREMA TIC.
   f. Fimbel Architectural Door Specialties.
   g. Haas Door.
   h. Hörmann LLC.
   i. Martin Door Manufacturing.
   j. Overhead Door Corporation.
   k. Raynor.
   l. Rite-Hite Corporation.
   m. Wayne-Dalton Corp.
   n. Windsor Door.

B. Operation Cycles: Door components and operators capable of operating for not less than 50,000 operation cycles. One operation cycle is complete when door is opened from closed position to the open position and returned to closed position.
C. Steel Door Sections: ASTM A653/A653M, zinc-coated (galvanized), cold-rolled, commercial steel sheet with G60 zinc coating.

1. Door-Section Thickness: 1-3/4 inches minimum.
2. Section Faces:
   a. Thermal-Break Construction: Provide sections with continuous thermal-break construction separating the exterior and interior faces of door.
   b. Exterior Face: Fabricated from single sheets, not more than 24 inches high; with horizontal meeting edges rolled to continuous, interlocking, keyed, rabbeted, shiplap, or tongue-in-groove, weather- and pinch-resistant seals and reinforcing flange return.

   1) Steel Sheet Thickness: 0.022-inch nominal coated thickness.

   c. Interior Face: Enclose insulation completely within steel exterior facing and interior facing material, with no exposed insulation. Provide the following interior-facing material:

   1) Zinc-Coated (Galvanized) Steel Sheet: With minimum nominal coated thickness of 0.019 inch minimum.

3. End Stiles: Enclose open ends of sections with channel end stiles formed from galvanized-steel sheet and welded to door section.
4. Section Reinforcing: Horizontal and diagonal reinforcement as required to stiffen door and for wind loading. Provide galvanized-steel bars, struts, trusses, or strip steel, formed to depth and bolted or welded in place.

   a. Hardware Locations: Provide reinforcement for hardware attachment.

5. Thermal Insulation: Insulate interior of steel sections with door manufacturer's standard insulation of type indicated below:

   a. Board Insulation: Polystyrene or polyurethane, secured to exterior face sheet.
   b. Foamed-in-Place Insulation: Polyurethane, foamed in place to completely fill interior of section and pressure bonded to face sheets to prevent delamination under wind load.
   c. Fire-Resistance Characteristics: Maximum flame-spread and smoke-developed indexes of 75 and 450, respectively, in accordance with ASTM E84.

D. Track: Manufacturer's standard, galvanized-steel, standard-lift track system. Provide complete system including brackets, bracing, and reinforcement to ensure rigid support of ball-bearing roller guides.


E. Weatherseals: Replaceable, adjustable, continuous, compressible weather-stripping gaskets of flexible vinyl, rubber, or neoprene fitted to bottom of door.

F. Hardware: Heavy-duty, corrosion-resistant hardware, with hot-dip galvanized, stainless steel, or other corrosion-resistant fasteners, to suit door type.
1. Hinges: Heavy-duty, galvanized-steel hinges of not less than 0.079-inch nominal coated thickness at each end stile and at each intermediate stile, in accordance with manufacturer's written recommendations for door size.
   a. Attach hinges to door sections through stiles and rails with bolts and lock nuts or lock washers and nuts. Use rivets or self-tapping fasteners where access to nuts is impossible.
   b. Provide double-end hinges where required for doors more than 16 ft. wide unless otherwise recommended by door manufacturer in writing.

2. Rollers: Heavy-duty rollers with steel ball bearings in case-hardened steel races, mounted to suit slope of track. Extend roller shaft through both hinges where double hinges are required. Match roller-tire diameter to track width.

3. Push/Pull Handles: Equip each door with galvanized-steel lifting handles on each side of door, finished to match door.

G. Locking Device:

1. Locking Device Assembly: Fabricate with cylinder lock, spring-loaded deadbolt, operating handle, cam plate, and adjustable locking bars to engage through slots in tracks.
   a. Lock Cylinders: Cylinders standard with manufacturer requirements.
   b. Keying: Keyed to building keying system.

2. Chain Lock Keeper: Suitable for padlock.

3. Safety Interlock Switch: Equip power-operated doors with safety interlock switch to disengage power supply when door is locked.

H. Counterbalance Mechanism:

1. Torsion Spring: Adjustable-tension torsion springs complying with requirements of DASMA 102 for number of operation cycles indicated, mounted on torsion shaft.

2. Cable Drums and Shaft for Doors: Cast-aluminum cable drums mounted on torsion shaft and grooved to receive door-lifting cables as door is raised.
   a. Mount counterbalance mechanism with manufacturer's standard ball-bearing brackets at each end of torsion shaft.
   b. Provide one additional midpoint bracket for shafts up to 16 ft. long and two additional brackets at one-third points to support shafts more than 16 ft. long unless closer spacing is recommended in writing by door manufacturer.

3. Cables: Galvanized-steel, multistrand, lifting cables with cable safety factor of at least 5 to 1.

4. Cable Safety Device: Include a spring-loaded steel or bronze cam mounted to bottom door roller assembly on each side and designed to automatically stop door if lifting cable breaks.

5. Bracket: Provide anchor support bracket as required to connect stationary end of spring to the wall and to level the shaft and prevent sag.

6. Bumper: Provide spring bumper at each horizontal track to cushion door at end of opening operation.
I. Manual Door Operator:


J. Electric Door Operator: Electric door operator assembly of size and capacity recommended by door manufacturer for door and operation cycles specified, with electric motor and factory-prewired motor controls, starter, gear-reduction unit, solenoid-operated brake, clutch, control stations, control devices, integral gearing for locking door, and accessories required for proper operation.

1. Comply with NFPA 70.
2. Control equipment complying with NEMA ICS 1, NEMA ICS 2, and NEMA ICS 6; with NFPA 70, Class 2 control circuit, maximum 24 V ac or dc.
3. Usage Classification: Standard duty, up to 25 cycles per hour and up to 90 cycles per day.
4. Operator Type: Manufacturer's standard for door requirements.
5. Motor: Reversible-type with controller (disconnect switch) for interior, clean, and dry motor exposure. Use adjustable motor-mounting bases for belt-driven operators.
   a. Motor Size: As required to start, accelerate, and operate door in either direction from any position, at a speed not less than 8 in./sec. and not more than 12 in./sec., without exceeding nameplate ratings or service factor.

6. Limit Switches: Equip motorized door with adjustable switches interlocked with motor controls and set to automatically stop door at fully opened and fully closed positions.
8. Control Station: Surface mounted, three-position (open, close, and stop) control.
   a. Operation: Push button interior and key exterior.
   b. Interior-Mounted Unit: Full-guarded, surface-mounted, standard-duty, weatherproof-type, NEMA ICS 6, Type 4 enclosure.

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

1. Baked-Enamel or Powder-Coat Finish: Manufacturer's standard baked-on finish consisting of prime coat and thermosetting topcoat. Comply with coating manufacturer's
written instructions for cleaning, pretreatment, application, and minimum dry film thickness.

a. Color and Gloss: As selected by Architect from manufacturer's full range.

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

3.2 INSTALLATION

A. Install sectional doors and operating equipment complete with necessary hardware, anchors, inserts, hangers, and equipment supports; in accordance with manufacturer's written instructions.

B. Tracks:

1. Fasten vertical track assembly to opening jambs and framing with fasteners spaced not more than 24 inches apart.

2. Hang horizontal track assembly from structural overhead framing with angles or channel hangers attached to framing by welding or bolting, or both. Provide sway bracing, diagonal bracing, and reinforcement as required for rigid installation of track and door-operating equipment.

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

D. Power-Operated Doors: Install automatic garage doors openers in accordance with UL 325.

3.3 STARTUP SERVICES

A. Engage a factory-authorized service representative to perform startup service.

1. Complete installation and startup checks in accordance with manufacturer's written instructions.

2. Test and adjust controls and safety devices. Replace damaged and malfunctioning controls and equipment.

3.4 ADJUSTING

A. Adjust hardware and moving parts to function smoothly so that doors operate easily, free of warp, twist, or distortion.
B. Lubricate bearings and sliding parts as recommended by manufacturer.

C. Adjust doors and seals to provide weather-resistant fit around entire perimeter.

D. Touchup Painting Galvanized Material: Immediately after welding galvanized materials, clean welds and abraded galvanized surfaces and repair galvanizing to comply with ASTM A780/A780M.

3.5 DEMONSTRATION

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

END OF SECTION
SECTION 087100 DOOR HARDWARE

SUPPLEMENT with the following:

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 REFERENCES
   A. Accessibility
      1. ADA - Americans with Disabilities Act.
   B. DHI - Door and Hardware Institute
      1. Sequence and Format for the Hardware Schedule
      2. Recommended Locations for Builders Hardware
      3. Key Systems and Nomenclature
   C. ANSI - American National Standards Institute
      1. ANSI/BHMA A156.1 - A156.29, and ANSI A156.31 - Standards for Hardware
         and Specialties

1.3 SUBMITTALS
   A. General:
      1. Submit in accordance with Conditions of Contract and Division 01 requirements.
      2. Highlight, encircle, or otherwise specifically identify on submittals deviations from
         Contract Documents, issues of incompatibility or other issues which may
         detrimentally affect the Work.
      3. Prior to forwarding submittal, comply with procedures for verifying existing door
         and frame compatibility for new hardware, as specified in PART 3,
         “EXAMINATION” article, herein.
   B. Action Submittals:
      1. Product Data: Product data including manufacturers’ technical product data for each
         item of door hardware, installation instructions, maintenance of operating parts and
         finish, and other information necessary to show compliance with requirements.
      2. Door Hardware Schedule: Submit schedule with hardware sets in vertical format as
         illustrated by Sequence of Format for the Hardware Schedule as published by the
         Door and Hardware Institute. Indicate complete designations of each item required
         for each door or opening, include:
            a. Door Index; include door number, heading number, and Architects hardware
               set number.
b. Door identification and location with room name and number.

c. Hand of door with opening degree.

d. Type, style, function, size, and finish of each hardware item.

e. Name and manufacturer of each item.

f. Fastenings and other pertinent information.

g. Explanation of all abbreviations, symbols, and codes contained in schedule

h. Mounting locations for hardware.

i. Door and frame sizes and materials.

j. Name and phone number for local manufacturer's representative for each product.

k. Submittal Sequence: Submit door hardware schedule concurrent with submissions of Product Data, Samples, and Shop Drawings. Coordinate submission of door hardware schedule with scheduling requirements of other work to facilitate fabrication of other work that is critical in Project construction schedule.

1.4 QUALITY ASSURANCE

A. Product Substitutions: Comply with product requirements stated in Division 01 and as specified herein.

1. Where specific manufacturer’s product is named and accompanied by “No Substitute,” including make or model number or other designation, provide product specified. (Note: Certain products have been selected for their unique characteristics and particular project suitability.)

   a. Where no additional products or manufacturers are listed in product category, requirements for “No Substitute” govern product selection.

2. Where products indicate “acceptable substitute” or “acceptable manufacturer”, provide product from specified manufacturers, subject to compliance with specified requirements and “Single Source Responsibility” requirements stated herein.

B. Supplier Qualifications and Responsibilities: Recognized architectural hardware supplier with record of successful in-service performance for supplying door hardware similar in quantity, type, and quality to that indicated for this Project and that provides certified Architectural Hardware Consultant (AHC) available to Owner, Architect, and Contractor, at reasonable times during the Work for consultation.

1. Warehousing Facilities: In Project's vicinity.

2. Scheduling Responsibility: Preparation of door hardware and keying schedules.

3. Engineering Responsibility: Preparation of data for electrified door hardware, including Shop Drawings, based on testing and engineering analysis of manufacturer's standard units in assemblies similar to those indicated for this Project.

4. Coordination Responsibility: Coordinate installation of electronic security hardware with Architect and electrical engineers and provide installation and technical data to Architect and other related subcontractors.

   a. Upon completion of electronic security hardware installation, inspect and verify that all components are working properly.

C. Installer Qualifications: Qualified tradesmen, skilled in application of commercial grade hardware with record of successful in-service performance for installing door hardware similar in quantity, type, and quality to that indicated for this Project.
D. Accessibility Requirements: For door hardware on doors in an accessible route, comply with governing accessibility regulations cited in “REFERENCES” article, herein.

1. Provide operating devices that do not require tight grasping, pinching, or twisting of wrist and that operate with force of not more than 5 lbf (22.2 N).
2. Maximum opening-force requirements:
   a. Interior, Non-Fire-Rated Hinged Doors: 5 lbf (22.2 N) applied perpendicular to door.

1.5 DELIVERY, STORAGE, AND HANDLING

A. Inventory door hardware on receipt and provide secure lock-up for hardware delivered to Project site.

B. Tag each item or package separately with identification coordinated with final door hardware schedule, and include installation instructions, templates, and necessary fasteners with each item or package.

1. Deliver each article of hardware in manufacturer’s original packaging.

C. Project Conditions:

1. Maintain manufacturer-recommended environmental conditions throughout storage and installation periods.
2. Provide secure lock-up for door hardware delivered to Project, but not yet installed. Control handling and installation of hardware items so that completion of Work will not be delayed by hardware losses both before and after installation.

D. Protection and Damage:

1. Promptly replace products damaged during shipping.
2. Handle hardware in manner to avoid damage, marring, or scratching. Correct, replace or repair products damaged during Work.
3. Protect products against malfunction due to paint, solvent, cleanser, or any chemical agent.

1.6 WARRANTY

A. Special Warranty: Manufacturer's standard form in which manufacturer agrees to repair or replace components of door hardware that fail in materials or workmanship within specified warranty period.

1. Warranty Period: Years from date of Substantial Completion, for durations indicated.
   a. Closers:
      1) Mechanical: 10 years.
   b. Locksets:
      1) Mechanical: 10 years.
2. Warranty does not cover damage or faulty operation due to improper installation, improper use or abuse.

PART 2 - PRODUCTS

2.1 MANUFACTURERS

A. Approval of manufacturers other than those listed shall be in accordance with QUALITY ASSURANCE article, herein.

B. Approval of products from manufacturers indicated as “Acceptable Manufacturer” is contingent upon those products providing all functions and features and meeting all requirements of scheduled manufacturer’s product.

<table>
<thead>
<tr>
<th>Item</th>
<th>Scheduled Manufacturer</th>
<th>Acceptable</th>
</tr>
</thead>
<tbody>
<tr>
<td>Hinges</td>
<td>Ives (IVE)</td>
<td>Hager, Bommer, Stanley</td>
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<tr>
<td>Locksets - Passage</td>
<td>Schlage F10ELA625 Satin Chrome</td>
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<tr>
<td>Locksets - Privacy</td>
<td>Schlage F40ELA626 Satin Chrome</td>
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<tr>
<td>Locksets - Exterior</td>
<td>Schlage AD300/301 or 400/401</td>
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<tr>
<td>Door Closers</td>
<td>Falcon (FAL)</td>
<td>Norton, Sargent</td>
</tr>
<tr>
<td>Door Trim</td>
<td>Ives (IVE)</td>
<td>Burns, Rockwood</td>
</tr>
<tr>
<td>Protection Plates</td>
<td>Ives (IVE)</td>
<td>Burns, Rockwood</td>
</tr>
<tr>
<td>Overhead Stops</td>
<td>Glynn-Johnson (GLY)</td>
<td>Rixson, Sargent</td>
</tr>
</tbody>
</table>

A. Hand of Door: Drawings show direction of slide, swing, or hand of each door leaf. Furnish each item of hardware for proper installation and operation of door movement as shown.

B. Where specified hardware is not adaptable to finished shape or size of members requiring hardware, furnish suitable types having same operation and quality as type specified, subject to Architect's approval.

2.2 MATERIALS

A. Fasteners

1. Provide hardware manufactured to conform to published templates, generally prepared for machine screw installation.

2. Furnish screws for installation with each hardware item. Finish exposed (exposed under any condition) screws to match hardware finish.

3. Provide concealed fasteners for hardware units exposed when door is closed.

4. Install hardware with fasteners provided by hardware manufacturer.

B. Provide screws, bolts, expansion shields, drop plates and other devices necessary for hardware installation.

1. Where fasteners are exposed to view: Finish to match adjacent door hardware material.

2.3 HINGES

A. Provide five-knuckle, ball bearing hinges.

1. Manufacturers and Products:
   

B. Requirements:
1. 1-3/4 inch (44 mm) thick doors, up to and including 36 inches (914 mm) wide:
   a. Interior: Standard weight, steel, 4-1/2 inches (114 mm) high

2. Provide three hinges per door leaf for doors 90 inches (2286 mm) or less in height.

3. Hinge Pins: Except as otherwise indicated, provide hinge pins as follows:
   a. Steel Hinges: Steel pins
   b. Non-Ferrous Hinges: Stainless steel pins
   c. Out-Swinging Interior Lockable Doors: Non-removable pins

4. Width of hinges: 4-1/2 inches at 1-3/4 inch thick doors. Adjust hinge width as required for door, frame, and wall conditions to allow proper degree of opening.

1. PART 3 - EXECUTION

3.1 EXAMINATION

A. Prior to installation of hardware, examine doors and frames, with Installer present, for compliance with requirements for installation tolerances, labeled fire-rated door assembly construction, wall and floor construction, and other conditions affecting performance.

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

3.2 PREPARATION

A. Where on-site modification of doors and frames is required:
   1. Remove existing hardware being replaced, tag, and store according to contract documents.
   2. Field modify and prepare existing door and frame for new hardware being installed.
   3. When modifications are exposed to view, use concealed fasteners, when possible.
   4. Prepare hardware locations in accordance with:
      a. Wood Doors: DHI WDHS.5 "Recommended Hardware Reinforcement Locations for Mineral Core Wood Flush Doors."

3.3 INSTALLATION

A. Mounting Heights: Mount door hardware units at heights to comply with the following, unless otherwise indicated or required to comply with governing regulations.

B. Install each hardware item in compliance with manufacturer’s instructions and recommendations, using only fasteners provided by manufacturer.

C. Do not install surface mounted items until finishes have been completed on substrate. Protect all installed hardware during painting.
D. Set units level, plumb and true to line and location. Adjust and reinforce attachment substrate as necessary for proper installation and operation.

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

F. Install operating parts so they move freely and smoothly without binding, sticking, or excessive clearance.

G. Hinges: Install types and in quantities indicated in door hardware schedule but not fewer than quantity recommended by manufacturer for application indicated or one hinge for every 30 inches of door height, whichever is more stringent, unless other equivalent means of support for door, such as spring hinges or pivots, are provided.

H. Stops: Provide floor stops for doors unless wall or other type stops are indicated in door hardware schedule. Do not mount floor stops where they may impede traffic or present tripping hazard.

3.4 CLEANING AND PROTECTION

A. Clean adjacent surfaces soiled by door hardware installation.

B. Clean operating items as necessary to restore proper function and finish.

C. Provide final protection and maintain conditions that ensure door hardware is without damage or deterioration at time of Substantial Completion.

END OF SECTION
SECTION 13 34 19 METAL BUILDING SYSTEMS

REVISE section 2.1 as follows:

2.1 MANUFACTURERS

Manufacturers: Subject to compliance with requirements, available manufacturers offering products that may be incorporated into the Work include, but are not limited to, the following:

A&S Building Systems, Inc.; a division of NCI.
Alliance Steel, Inc.
American Buildings Company; a Nucor Company.
BC Steel Buildings, Inc.
Behlen Mfg. Co.
Butler Manufacturing Company; a division of BlueScope Buildings North America, Inc.
CBC Steel Buildings; a Nucor Company.
Garco Building Systems; a division of NCI.
Varco Pruden Buildings, a division of BlueScope Buildings North America, Inc.
Metallic Building Company; an NCI Building Systems Company
Nucor Building Systems

SECTION 283100 – FIRE ALARM SYSTEM

REVISE section 1.1 as follows:

1.1 GENERAL

A. The Fire Alarm System for this project shall be a Silent Knight / Farenhyt Brand System.

   Alternate Systems allowed:

   1. Gamewell/FCI S3

B. Substitutions of the specified Fire Alarm will be not be allowed.

C. Includes, but not limited to, the following:

   1. Provide all material, labor, equipment, design, and services necessary to perform the modification of a complete, fully operational, intelligent (analog) and addressable (digital), low voltage 24 Volts D.C., point identification, microprocessor-based Silent Knight / Farenhyt Brand Fire Alarm System, in accordance with the required and advisory provisions of the latest edition of N.F.P.A. #72 accepted by the Authority having Jurisdiction and project specifications, except as modified herein.
SECTION 265000 LIGHTING

ADD the following:

Article 1.4.A, Manufacturers, ADD manufacturers listed on the attached Light Fixture Schedule.

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<thead>
<tr>
<th>SYMBOL</th>
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<tr>
<td>PL2</td>
<td>(Specified Product)</td>
<td>Industrial Lighting Products</td>
</tr>
<tr>
<td>SL1</td>
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<td>CONTROLS</td>
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CALL UNDERGROUND UTILITY LOCATE SERVICE: 1-800-424-5555 72 HOURS BEFORE DIGGING.