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ESCAMBIA COUNTY, FLORIDA**

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CLAUDIA SIMMONS
Purchasing Manager



September 7, 2016

To: All Known Prospective Bidders

ADDENDUM NUMBER 3:

Re: Southwest Escambia County Sports Complex Restroom Facilities Specification
Number: PD 15-16.092

Bidders:

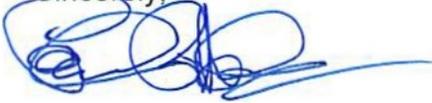
We recently sent you an Invitation to Bid on the above mentioned specification. This Addendum #3 provides for:

Responses to the following RFI's:

1. Confirm that per the ITB the bidder must hold a State of Florida General Contractors license.
Response – General Contractors License required
2. Per Amendment #01, C. responses:
 - Provide specification for access door
Response – Use Nystrom Architectural Access Door (Part # NTC22x30B) or equivalent approved by the Engineer of record.
 - Provide corrected specifications for Section 08100 Metal Doors and Frames and 08710 Finish Hardware to reflect the hurricane requirements.
Response – See Section 08310 Access Doors and Frames attached
See Section 08100 Metal Doors and Frames attached
See Section 08710 Finish Hardware attached, Windspeed requirements are provided in 1.1.E and refer to wind information in structural drawings
 - Advise if and where an extinguisher is required.
Response – Please refer to attached revised specification 10520.

This Addendum Number 3 is furnished to all known prospective Bidders. Please sign and return one copy of this Addendum, with original signature, with your proposal as an acknowledgement of your having received same. You may photo copy for your record.

Sincerely,

A handwritten signature in blue ink, appearing to be 'Paul Nobles', written over a horizontal line.

Paul Nobles, CPPO, CPPB, FCCM, FCN
Senior Purchasing Coordinator

SIGNED: _____

COMPANY: _____

PRN

SECTION 08310 ACCESS DOORS AND FRAMES

PART 1 - GENERAL

1.1 SUMMARY

A. Section includes:

- 1. Non-Rated Architectural wall and ceiling access door. (NTC Series)**
- 2. Related hardware and attachments.**

EDIT NOTE: MODIFY THIS LIST PER PROJECT REQUIREMENTS.

B. Related Sections:

- 1. Section 04810 - Unit Masonry Assemblies.**
- 2. Section 09260 - Gypsum Board Assemblies.**
- 3. Section 09510 - Suspended Acoustical Ceilings.**
- 4. Section 09900 - Paints and Coatings.**
- 5. Division 15 - Mechanical.**
- 6. Division 16 - Electrical.**

1.2 SYSTEM DESCRIPTION

A. Design Requirements:

- 1. Verification: Obtain specific locations and sizes for required access doors and frames from trades, including mechanical and electrical, requiring access to concealed equipment and indicate on submittal schedule.**

1.3 SUBMITTALS

A. Shop Drawings:

- 1. Door and panel units: Show types, elevations, thickness of metals, full size profiles of door members.**
- 2. Hardware: Show materials, finishes, locations of fasteners, types of fasteners, locations and types of operating hardware, and details of installation.**
- 3. General: Show connections of units and hardware to other Work. Include schedules showing location of each type and size of door and panel units.**

B. Product Data: Manufacturer's technical data for each type of access door and panel assembly, including setting drawings, templates, fire-resistive characteristics, finish requirements, and details of anchorage devices.

- 1. Include complete schedule, types, locations, construction details, finishes, latching or locking provisions, and other pertinent data.**

C. Manufacturer's Installation Instructions: Indicate installation requirements and rough-in dimensions.

1.4 QUALITY ASSURANCE

A. Comply with Section 01400 01410 01430.

B. Single Source Responsibility: Obtain access door and panel units, and frames for entire Project from 1 source and 1 single manufacturer.

C. Size Variations: Obtain Architect's acceptance and approval of manufacturer's standard size units that may vary slightly from sizes indicated on Drawings.

D. Coordination: Provide inserts and anchoring devices that will be built into other Work for installation of access door assemblies. Coordinate delivery with other Work to avoid delay.

1.5 DELIVERY, STORAGE AND HANDLING

- A. Comply with Section 01600.
- B. Package and ship per manufacturer's recommendations.
- C. Store per manufacturer's instructions.
 - 1. Store in dry area out of direct sunlight.

1.6 WARRANTY

- A. Provide manufacturer's written warranty per Section 01795.
- B. Warrant materials and workmanship against defects after completion and final acceptance of Work.
 - 1. Repair defects, or replace with new materials, faulty materials or workmanship developed during the guarantee period at no expense to Owner.
 - 2. Access Panel Warranty: 1 year from date of shipment.

PART 2 - PRODUCTS**2.1 MANUFACTURERS**

- A. Subject to compliance with requirements, provide products from the following manufacturer.
 - 1. Nystrom Building Products
9300 73rd Avenue North
Brooklyn Park, MN 55428
Toll Free Hotline: 800-547-2635
Toll Free Fax: 800-317-8770
Direct Phone: 763-488-9200
E-Mail: info@nystrom.com
Internet: www.nystrom.com
- B. Substitutions: Comply with Section 01600 01630.
- C. Specifications and Drawings are based on manufacturer's proprietary literature from Nystrom Building Products. Other manufacturers shall comply with minimum levels of material, color selection, and detailing indicated in Specifications or on Drawings. Architect will be sole judge of appropriateness of substitutions.

2.2 MATERIALS

- A. Commercial quality, cold steel sheet with white baked on powder coat finish.
- B. Galvanized, bonderized steel with white baked on powder coat finish.

2.3 ACCESS PANELS

- A. Non rated flush access doors, Nystrom N series
 - 1. Door: Fabricate from 14-gauge cold rolled sheet steel, with multiple mounting configurations.
 - 2. Frame: Fabricate from 16-gauge cold rolled sheet steel. Provide 1/4 inch mounting holes and easy install tabs.
 - a. NT - All surfaces - 1 inch flange at perimeter.
 - b. NW - Wallboard surfaces - Integrated 16-gauge drywall bead and frame.
 - c. NP - Plaster surfaces - 22-gauge galvanized plaster bead at perimeter.
 - 3. Hinge:
 - a. NT - Concealed spring button type, to allow for door removal.
 - b. NW and NP - Concealed spring button type, to allow for door removal.
 - 4. Latching/Locking Devices: Screwdriver cam latch - standard.

OPTIONS:

- a. Key operated cylinder cam lock with 2 keys per lock, keyed alike.
- b. Preparation to accept a 1 1/8" mortise cylinder. Cylinder and core specified in Division 8 Section "Door Hardware"
- c. Other options as specified.

SELECT ONE OF THE FOLLOWING FINISHES: WHITE BAKED ON POWDER COAT IS STANDARD

5. Finish:

- a. White baked on powder coat finish.
- b. Galvanized, bonderized steel, with white baked on powder coat finish.
- c. Type: No. 304 stainless steel with No. 4 satin polish finish.

2.4 OPTIONS

- A. Mortise cylinder preparation to receive 1 1/8 inch mortise cylinder lock. Lock specified in Division 8 Section "Door Hardware".

2.5 FABRICATION

- A. Manufacture each access panel assembly as an integral unit ready for installation.
- B. Framing to include integral anti-flexing technology, with 1/4 inch mounting holes, to reduce the twist of frame during installation.
- C. Easy Install Tabs integral to framing for multiple installation methods.
- D. Furnish number of latches required to hold door in flush, smooth plane when closed.

PART 3 - EXECUTION**3.1 EXAMINATION**

- A. Comply with Section 01700.
- B. Verify that rough openings for door and frame are correctly sized and located.
- C. Verify mechanical and electrical requirements for ceiling or wall access panels.

3.2 PREPARATION

- A. Advise installers of work relating to access panel installation including rough opening dimensions, locations of supports, and anchoring methods. Coordinate delivery with other work to avoid delay.

3.3 INSTALLATION

- A. Install access door and frame units per manufacturer's written instructions.
- B. Install frames plumb and level in opening. Secure rigidly in place.
- C. Position units to provide convenient access to concealed Work requiring access.

3.4 ADJUST AND CLEAN

- A. Adjust panel after installation for proper operation.
- B. Remove and replace panels or frames that are warped, bowed, or damaged.

END OF SECTION

SECTION 08100 METAL DOORS AND FRAMES

1. GENERAL

1.1 DESCRIPTION

- A. Work included: Provide metal doors and metal door frames as specified herein and as needed for a complete and proper installation.**
- B. Fire-rated assemblies: Where fire-rated assemblies are indicated or required, provide fire-rated door and/or frame units that have been tested and comply with NFPA 80 "Standard for Fire Doors and Fire Windows". Items shall be labeled in accordance with NFPA 252, "Standard Methods of Fire Tests of Door Assemblies", and NFPA 257, "Standard on Fire Test for Windows and Glass Block Assemblies". Doors, Frames and Windows shall have a metal label or embossed label (UL or FM) showing compliance. Note: Fire doors must be factory prepared for hardware to maintain fire rating.**
- C. Related work:**
 - 1. Documents affecting work of this Section include, but are not necessarily limited to, General Conditions, Supplementary Conditions and Sections in Division 1 of these Specifications.**
 - 2. Section 07920: Sealants and caulking.**
 - 3. Section 08710: Finish Hardware.**
 - 4. Section 09900: Painting.**

1.2 QUALITY ASSURANCE

- A. Use adequate numbers of skilled workmen who are thoroughly trained and experienced in the necessary crafts and who are completely familiar with the specified requirements and the methods needed for proper performance of the work of this Section.**
- B. Provide products that meet the product approval requirements mandated by the State of Florida, certified by the Florida Building Commission.**
- C. Provide metal door and frame products that comply with the wind load design pressure requirements, as shown on drawings, for this building. Provide wind load design pressure documentation prepared and sealed by a licensed Florida P.E.**
- D. The Finish Hardware supplier shall furnish to the General Contractor all finishing hardware as specified herein or as obviously required to complete the project. Items not specifically mentioned but necessary to complete the work shall be furnished, matching in quality and finish to the items specified or described herein. Should an opening be omitted, this supplier shall**

provide finish hardware equal to that specified for similar or adjacent openings and as approved by the Engineer of Record for function and quality. No extras will be allowed for omitted but required items. Clarify all questions with the Engineer of Record in writing, prior to bid opening.

E. Unless specifically otherwise approved by the Engineer of Record, provide all products of this Section from a single manufacturer.

F. Reference Standards:

1. American National Standard Institute (ANSI) A115 series on doors and frame preparation.
2. ANSI A151 1-1969 Performance Test for Standard Steel Doors, Frames, Anchors, Hinge Reinforcement and Exit Device Reinforcement.
3. Steel Door Institute; SDI-105, "Recommended Erection Instructions for Steel Frames" and SDI-110 "Standard Steel Doors and Frames For Modular Masonry Construction".

1.3 SUBMITTALS

A. Comply with pertinent provisions of Section 01340 and Section 01600.

B. Product data: Within 35 calendar days after the Contractor has received the Owner's Notice to Proceed, submit:

1. Materials list of items proposed to be provided under this Section.
2. Manufacturer's specifications and other data needed to prove compliance with the specified requirements.
3. Shop Drawings showing details of each frame type, elevations of door designs, details of openings, and details of construction, installation, and anchorage.
4. Manufacturer's recommended installation procedures which, when approved by the Engineer of Record, will become the basis for accepting or rejecting actual installation procedures used on the Work.

1.4 PRODUCT HANDLING

A. Comply with pertinent provisions of Section 01600.

B. Provide secure lock-up for hardware delivered to the project, but not yet installed. Control the handling and installation of hardware items that are not immediately replaceable so that the completion of the work will not be delayed by hardware losses, both before and after installation.

2. PRODUCTS

2.1 METAL DOORS

A. Type and design:

1. Provide full flush design of 16 gauge for metal doors, properly reinforced for the finish hardware described in Section 08710 of these Specifications.
 - a. Doors shall be fabricated from galvanized steel.
 - b. Exterior doors shall have top of door closed with a channel welded in place "looking down" and filled to yield a "watertight" top.

B. Finish:

1. Pre-clean and shop prime each door for finish painting which will be performed at the job site under Section 09900 of these Specifications.

C. Acceptable manufacturers, provide all items from a single manufacturer, as indicated following or equal products of another manufacturer approved in advance by the Engineer of Record.

1. Curries Company.
2. Ceco Door Products Company.
3. Steelcraft Company.

D. Astragals:

1. Provide "Z" type astragals at all pairs of metal doors, which do not have mullions, unless not required by hardware items such as mulls, etc., as denoted at Section 08710, Hardware Schedule.

2.2 METAL FRAMES**A. Type and design:**

1. Provide frames of 14 gauge galvanized steel, properly reinforced for the finish hardware described in Section 08710 of these Specifications. Furnish floor clips at all mullions.
2. All frames shall be continuously shop welded at face joints and ground smooth. Assembly "ear tabs" shall be ground off and tab-frame joint welded and ground smooth.
3. Interior frames shall be pre-drilled prior to galvanizing for receipt of rubber cone shaped silencers.

B. Finish:

1. Pre-clean and shop prime each frame for finish painting which will be performed at the job site under Section 09900 of these Specifications.

2.3 FINISH HARDWARE

- A. Secure templates from the finish hardware supplier, and accurately install, or make provision for, all hardware at the factory.

3. EXECUTION

- 3.1 Examine the areas and conditions under which work of this Section will be performed. Correct conditions detrimental to timely and proper completion of the Work. Do not proceed until unsatisfactory conditions are corrected.

- 1. Metal door and frame installation procedures shall be as indicated by SDI-105, "Recommended Erection Instructions for Steel Frames" and SDI-110 "Standard Steel Doors and Frames For Modular Masonry Construction".

3.2 INSTALLATION

- A. Placing frames:

- 1. Place frames prior to construction of enclosing walls and ceilings.
- 2. Set frames accurately into position, plumbed, aligned, and braced securely until permanent anchors are set.
- 3. Fill frames in masonry construction with mortar, as masonry walls are laid-up.
- 4. After wall construction is completed, remove temporary braces and spreaders, leaving surfaces smooth and undamaged.
- 5. At in-place construction, set frames and secure to adjacent construction with machine screws and suitable anchorage devices. Provide "Z" fillers at each screw location.

3.3 ADJUST AND CLEAN

- A. Final adjustments:

- 1. Check and readjust operating finish hardware items in hollow metal work just prior to final inspection.
- 2. Leave work in complete and proper operating condition.
- 3. Remove defective work and replace with work complying with the specified requirements.

- B. Immediately after erection, sand smooth all rusted and damaged areas of prime coat, and apply touchup of compatible air-drying primer.

END OF SECTION 08100

SECTION 08710 FINISH HARDWARE

1. GENERAL

1.1 SUMMARY

- A. Section includes items know commercially as Finish Hardware required for swing doors.**
- B. Related Documents: Drawings and general provisions of contract, including general and supplementary conditions and divisions, other specification sections, apply to work of this section.**
- C. Scope: The Finish Hardware Supplier shall furnish to the General Contractor all finish hardware as hereinafter specified or as obviously required to complete the project. Items not specifically mentioned but necessary to complete the work shall be furnished, matching in quality and finish to the items hereinafter specified. Should an opening be omitted this supplier shall provide hardware equal to that specified for similar or adjacent opening and as approved by Engineer of Record for function and quality. No extras will be allowed for omitted but required items. Clarify all questions with the Engineer of Record in writing prior to bid opening.**
- D. Provide products that meet the product approval requirements mandated by the State of Florida, products certified by the Florida Building Commission.**
- E. Provide products that meet the wind speed and Components & Cladding requirements stated in the structural drawings.**

1.2 REFERENCES

- A. Door and Hardware Institute (DHI)**
 - 1. Keying Terminology.**
 - 2. Recommended Locations for Architectural Hardware for Standard Steel Doors and Frames.**
 - 3. Recommended Locations for Architectural Hardware for Flush Wood Doors.**
 - 4. Sequence and Format for Hardware Schedules.**
 - 5. Recommended Procedure for Processing Hardware Schedules and Templates.**
- B. National Fire Protection Association (NFPA)**
 - 1. NFPA 80 Fire Doors and Frames.**
 - 2. NFPA 101 Life Safety Code.**
 - 3. NFPA 105 Smoke and Draft Control Door Assemblies.**

C. American National Standards Institute (ANSI)

1. A117.1 Providing Accessibility and Usability for Physically Handicapped People.
2. A156.18 Materials and Finishes.

1.3 SUBMITTALS

- A. Comply with pertinent provisions of Section 01340 and Section 01600.
- B. Schedules: After the award of a formal contract, eight (8) complete typewritten copies of the proposed finish hardware schedule shall be submitted to the Engineer of Record for Approval. This schedule shall be similar to the Vertical Schedule Format as shown in "Sequence and format for the Hardware Schedule" as approved and recommended by the Door and Hardware Institute (DHI).
- C. Product Data: When submitting schedules for approval, include two (2) manufacturers' cut sheets of each item of hardware proposed.
- D. Samples: As part of this contract provide, if requested by the Engineer of Record, one sample of each item of Finish Hardware shall be sent to the Engineer of Record. Samples can be returned to the supplier at the end of the project, if so requested by the supplier at end of Job.
- E. Templates: Upon receipt of approved schedules, submit the necessary hardware templates to those trades and/or manufactures with which hardware must be coordinated. Comply with procedures established in DHI Handbook, for "Recommended Procedure for Processing Hardware Schedules and Templates". Contractor is to request the Hardware Supplier to prepare and furnish templates to his office for his disbursement to proper fabricators.

1.4 QUALITY ASSURANCE

- A. Substitutions: Manufacturers and model numbers listed are to establish a standard of quality. Similar items by other manufacturers that are equal in design, function and quality will be accepted if proper evidence is received by the Engineer of Record in time for listing of any items approved in addenda, this will allow all bidders to quote on an equal basis.
- B. Suppliers Qualifications: In order to provide the proper service as required by this project, the hardware supplier is required to have his stocking builders' hardware warehouse located within 50 miles of Escambia County, Florida. The consultant shall have experience in the preparation of architectural hardware specifications, detailing, ordering and servicing of all items supplied by these specifications. Those having experience supplying hardware in the project's vicinity for not less than three (3) years shall furnish hardware. A qualified Person from the supplier shall be available at

reasonable times during the course of the project for consultation to the Owner, Engineer of Record and Contractor.

- C. **Approved Supplier:** The supplier must have demonstrated willingness to coordinate field problems, assist Owner in any future problems and all aspects of service operations. He must have a reputation for supplying quality materials. Prebid approval is required. The following are accorded such approval in advance:

Jake J. Krauss, Jr., A.H.C.

Krauss Contract Sales, Inc.

6707 Lillian Highway

Pensacola, FL 32506

1-850-453-6657 Fax 1-850-453-4083

Bill Rogers, A.H.C.

Warren Hollow Metal Doors & Frames, Inc.

911 West Texar Drive

Pensacola, FL 32501

1-850-432-9821 Fax 1-850-432-9823

Rodney Slone

Slone Doors, Inc.

6109 Village Oaks Drive

Pensacola, FL 32504

1-850-494-7992 Fax 1-850-969-1278

- D. **Fire Rated Openings:** Provide hardware for fire rated openings in compliance with NFPA Standard No. 80. Provide only hardware tested and listed by UL for types and sizes of doors required and shall comply with requirements of door and frame labels.

1.5 DELIVERY, STORAGE AND HANDLING

- A. Comply with pertinent provisions of Section 01600.
- B. **Marking and Packaging:** Hardware shall be delivered to the project site in the manufacturer's original packages. Each article of hardware shall be

individually packaged in the manufacturer's substantial commercial carton or container, properly marked or labeled to be readily identifiable with the permanent approved hardware schedule.

- C. **Delivery:** All items of finish hardware shall be received at suppliers' warehouse, checked for correctness of product, strikes, brackets, screws and other miscellaneous items. Hardware is to be accumulated at the supplier's warehouse and as far as practical be delivered in one complete delivery by supplier's own personnel. Contractor is to refuse delivery from drop orders or factory shipments. Supplier is to check all items of hardware at the time of delivery with personnel from the Contractor's office.
- D. **Inventory:** Hardware is to be inventoried jointly with representatives of the hardware supplier and the contractor's hardware installer until each is satisfied that the count is correct.
- E. **Storage:** Contractor shall provide secure lockup for hardware delivered to the project, but not yet installed. Control of handling and installation of the hardware items so that the completion of work will not be delayed by hardware losses, both before and after installation.

1.6 WARRANTY

- A. Provide manufacturers' warranties on all items, except overhead closers, against failure due to defective materials and workmanship for a period of two (2) years commencing on the date of final acceptance. In the event of such failure, promptly repair or replace with no additional costs to Owner.
- B. Provide manufacturer's warranties on overhead closers against failure to defective materials and workmanship for a period of five (5) years commencing on the date of final acceptance. In the event of such failure, promptly repair or replace the closer at no additional costs to Owner.

1.7 MAINTENANCE

- A. **Maintenance Service:** Supplier shall have in his employment a qualified technician to be called upon to service all of the hardware items supplied.
- B. **Special Tools:** Provide special tools, such as spanner wrenches, dogging keys and etc. required to service and adjust hardware items.

2. PRODUCTS

2.1 MANUFACTURERS LISTED AND APPROVED EQUALS: Provide products (doors, frames and finish hardware as a component package) that meet the product approval requirements mandated by the State of Florida.

- A. **Hinges/Butts**
McKinney Hager Bommer

TA2314 BB1199 BB5001

TA2714 BB1279 BB5000

T2714 1279 5000

B. Locks

Sargent Schlage Corbin

8200 LNL L9000 06A ML2200 NSA

C. Deadlocks

Sargent Schlage Corbin

4878 L400 DL4000

D. Closers

Sargent LCN Corbin

1431 1400 DC6000

E. Push Pull and Kickplates

Rockwood Hager

70 4" x 16" 30S 4" x 16"

107-70 33G 4" x 16"

.050 190S

F. Door Stops

Rockwood Hager

406 233W

443 243F

G. Thresholds and Weatherstrip

NGP Pemko

896V 1855AT

160V 303AV

C627A 3452CP

16V 346C

2.2 MATERIALS

A. Locks and Latches: Lock trim shall be supplied in compliance with A.D.A. Lever Design.

B. Panic Devices: All exit devices shall be of a brass, bronze or stainless steel base material, plated to the standard architectural finishes to match the

balance of the door hardware. Painted or anodized aluminum finishes will not be considered acceptable for the heavy-duty usage on this project.

- C. Closers: Door closing devices shall be installed and adjusted in accordance with the templates and printed instructions supplied by the manufacturer of the devices. Insofar as practical closers shall be mounted on the side of door that is less visible to people, example "Corridor to Rooms" mount closer in rooms. Closers for out swinging doors shall have parallel arms.
- D. Flush Bolts: Lever extension flush bolts shall be installed at the top and bottom of the inactive leaf of pairs of doors. The bottom bolt shall operate into a dust-proof floor strike or threshold. Bottom bolt shall be approximately 12" off the floor and the top bolt shall be approximately 72" off the floor.

2.3 MANUFACTURER

- A. Obtain each type of hardware (Latch and Locksets, Closers, Panic Devices, etc.) from a single manufacturer, although several may be indicated as offering products complying with requirements.

2.4 FINISHES

- A. Provide matching finishes for hardware units at each door opening, to the greatest extent possible, and except as otherwise indicated. Reduce difference in color and texture as much as commercially possible where the base metal; or metal forming process is different for individual units of hardware exposed at the same door of opening. In general, match items to the manufacturer's standard finish for the latch and lock set (or push-pull units if no latch sets used) for color and texture.
- B. Provide quality of finish, including thickness of plating or coating (if any), composition, hardness and other qualities complying with manufacturer's standards, but in no case less than specified for the applicable units of hardware by referenced standards.
- C. The designations used in schedules and elsewhere to indicate hardware finishes are those listed in ANSI A156.18 "Materials and Finishes Standards", including coordination with the traditional U.S. Finishes shown by certain manufacturers for their products.

2.5 KEYING

- A. Hardware Supplier shall consult with Engineer of Record and Owner to secure written approval of the complete keying layout prior to placing lock order with factory.
- B. All master keys shall be identified for the specific project and be delivered to the Owner.

- C. All locks shall be equipped with 7 pin Falcon Interchangeable Cores, Keyed to the Existing Escambia County Parks and Recreation 6 pin System (no substitutions).
 - 1. Install all Falcon I.C. mortise (threaded) cylinders with proper interchangeable core installation tool (Tool #1407).
- D. Supply temporary cores for use as a construction keying system. Temporary cores to be returned to Hardware Supplier after permanent cores are installed.
- E. Owner's Representative to install permanent cores after the Owners acceptance of this project.
- F. Hardware Supplier shall consult with Engineer of Record and Owner to secure written approval of the complete keying layout prior to placing lock order with factory.

2.6 FASTENINGS:

- A. Fastenings of proper type, size, quality and finish shall be supplied with each article of hardware. Machine screws and expansion shields shall be used for attaching hardware to concrete or masonry.
- B. Fastenings exposed to the weather in the finished work shall be brass, bronze or stainless steel.
- C. Sex bolts, through bolts or machine screws and grommet nuts, where used on reverse-bevel exterior equipped with half-surface or full surface hinges, shall employ one-way screws or other approved tamperproof screws.

3. EXECUTION

3.1 INSTALLATION

- A. Mount hardware units at heights indicated in "Recommended Locations of Architectural Hardware for Standard Steel Doors and Frames" by Door and Hardware Institute (DHI), except as otherwise specifically indicated or to comply with requirements of governing regulations, requirements for the handicapped or if otherwise directed by the Engineer of Record.
- B. All hardware shall be installed by tradesmen skilled in the application of commercial grade hardware.
- C. Install each hardware item in compliance with the manufacturer's instructions and recommendations. Securely fasten all parts to be attached. Fit faces of mortised parts snug and flush. Make sure all operating parts move freely and smoothly without binding, sticking or excessive clearance. Wherever cutting and fitting is required to install hardware onto or into surfaces that are later to be painted or finished in another way, the

hardware shall be removed and stored prior to the painting or finishing. Items shall than be reinstalled only when the finishes have been completed on the surface to which is to be applied.

- D. Set units level, plumb and true to line and location. Adjust and reinforce the attachment substrate as necessary for proper installation and operation.
- E. At exterior doors and elsewhere as indicated, set thresholds in a bed of sealant as specified in Section 07920 to completely fill concealed voids and exclude moisture from every source. Do not plug drain holes or block weeps. Remove excess sealant.

3.2 ADJUSTING AND CLEANING

- A. Wherever hardware installation is made more than one month prior to acceptance or occupancy of a space or area, return to the work during the week prior to acceptance or occupancy, and make final check and adjustment of all hardware items in such space or area. Clean operating items as necessary to restore proper function and finish of hardware and doors. Adjust door control devices to compensate for final operation of and ventilating equipment.

3.3 PROTECTION

- A. Whenever hardware is located in areas where it may be subject to damage during construction by handling, cleaning, etc., (i.e., painting, cleaning of masonry) it shall be protected and/or removed from its location until hazardous condition is terminated.

NOTE: Provide finish hardware products that comply with the wind load design pressure requirements as shown on drawings for this building. Provide wind load design pressure documentation prepared and sealed by a licensed Florida P.E. Exterior Openings to be wind coded. Items have been tested as a unit with Curries Hollow Metal. Miami-Dade NOA No. 03-0626.01 / Florida Building Code. Equals from Ceco and Steelcraft are approved subject to details submitted to Engineer of Record, hardware items would be the ones of same level and approved by testing by Ceco or Steelcraft.

END OF SECTION 08710

SECTION 10520 FIRE EXTINGUISHERS

1. GENERAL

1.1 DESCRIPTION

- A. Work included: Provide fire extinguishers and wall brackets as specified herein, and as needed for a complete and proper installation.
- B. Related work:
 - 1. Documents affecting work of this Section include, but are not necessarily limited to, General Conditions, Supplementary Conditions and Sections in Division 1 of these Specifications.

1.2 QUALITY ASSURANCE

- A. Use adequate numbers of skilled workmen who are thoroughly trained and experienced in the necessary crafts and who are completely familiar with the specified requirements and the methods needed for proper performance of the work of this Section.
- B. Conform to NFPA 10 requirements for portable fire extinguishers.
- C. Provide fire extinguishers and accessories by a single manufacturer.
- D. Conform to 2010 ADA STANDARDS FOR ACCESSIBLE DESIGN on maximum projection of 4-inches into corridors where necessary.

1.3 SUBMITTALS

- A. Comply with pertinent provisions of Section 01340 and Section 01600.
- B. Product data: Within 35 calendar days after the Contractor has received the Owner's Notice to Proceed, submit:
 - 1. Materials list of items proposed to be provided under this Section.
 - 2. Manufacturer's specifications and other data needed to prove compliance with the specified requirements.
 - 3. Dimensioned Drawings as needed to depict the space required for these items, and their interface with the work of other trades.
 - 4. Manufacturer's recommended installation procedures which, when approved by the Engineer of Record, will become the basis for accepting or rejecting actual installation procedures used on the Work.

1.4 PRODUCT HANDLING

- A. Comply with pertinent provisions of Section 01600.

2. PRODUCTS

2.1 FIRE EXTINGUISHERS

- A. Building: Fire Extinguishers shall be ULINE Model S-9873, Class ABC monoammonium phosphate dry chemical, 5 lb. capacity (UL Rating 2A:10B:C) or equal products of other manufacturers when approved by the Engineer of Record. Submit complete product literature for approval.
- B. Fire extinguishers shall be hung on standard wall mount bracket (ULINE Model H-5932) or equal product of other manufacturer when approved by the Engineering of Record. Submit complete product literature for approval.
- C. Service charge and tag each fire extinguisher not more than five (5) calendar days prior to the Date of Substantial Completion of the Work as that Date is established by the Engineer of Record.
- D. Provide fire extinguishers on wall opposite entrance to men's and women's restrooms.

3. EXECUTION

3.1 SURFACE CONDITIONS

- A. Examine the areas and conditions under which work of this Section will be performed. Correct conditions detrimental to timely and proper completion of the Work. Do not proceed until unsatisfactory conditions are corrected.

3.2 INSTALLATION

- A. Coordinate as required with other trades to assure proper and adequate provision in the work of those trades for interface with the work of this Section.
- B. Install the work of this Section in strict accordance with the original design, the approved Shop Drawings, pertinent requirements of governmental agencies having jurisdiction, and the manufacturer's recommended installation procedures as approved by the Engineer of Record, anchoring all components firmly into position for long life under hard use.

END OF SECTION 10520