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**Addendum**

<b>Solicitation Name</b>	Alterations at Isabella Towers C20014	<b>Addendum Number</b>	1	<b>Date</b>	11/20/19
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This addendum answers questions raised about this solicitation. To aid in readability, the questions are in black, the answers are in **bolded blue**, and the answers follow immediately below.

Q1	Is there a typo in the paragraph talking about the completion date?
	<b>Yes there is. Completion is by January 31, 2021.</b>
Q2	Is this work covered by the RPP rule?
	<b>Yes. Suppliers performing renovation, repair and painting projects that disturb lead-based paint in homes, childcare facilities and schools built before 1978 must be certified and must follow specific work practices to prevent lead contamination. When work is occurring at a site, the supplier must submit proof of the applicable certification before commencing work. The supplier will keep such certification current throughout the life of the award. Additional information is at HUD's website: <a href="http://portal.hud.gov/hudportal/HUD?src=/program_offices/healthy_homes/training/rrp/rrp_and_the_State_of_Tennessee's_website">http://portal.hud.gov/hudportal/HUD?src=/program_offices/healthy_homes/training/rrp/rrp_and_the_State_of_Tennessee's_website</a>: <a href="http://www.state.tn.us/environment/swm/leadpaint/">http://www.state.tn.us/environment/swm/leadpaint/</a> .</b>
Q3	Are there revisions to Section 08 71 00: Door Hardware?
	<b>Yes-see the attached revised document.</b>
Q4	Has an environmental assessment been performed on either or both of these projects?
	<b>Please see the information now posted to KCDC's webpage.</b>
Q5	If so, will there be an abatement component to each project to be bid?
	<b>Please see the information now posted to KCDC's webpage.</b>
Q6	I would like to bid on the abatement RFP; how would I go about doing that?
	<b>Through a General Contractor.</b>
Q7	Where can I locate the environmental reports that identifies substance to be removed along with their quantities?
	<b>Please see the information now posted to KCDC's webpage.</b>
Q8	What is the start date?
	<b>KCDC's Board will approve the award at its December 12<sup>th</sup> meeting. It is anticipated that the pre-construction meeting and contract signing will occur as soon as possible thereafter. Work will likely be able to commence in mid-January. KCDC staff will work with the successful vendor to set the actual start date.</b>
Q9	What is the timeline for completion?
	<b>Please see question 1.</b>



Q10	Will these units be occupied?
	<b>Yes. However KCDC's plan is to have complete floors ready for you to work on. KCDC has successfully managed several of these projects in the past and has been successful in ceasing lease ups, moving tenants and thus freeing up entire floors or wings of buildings to allow better access to workers.</b>
Q11	What is the sequence of work?
	<b>Currently KCDC anticipates giving the successful vendor a complete floor to start with and then to give the vendor additional complete floors as work progresses. The plumbing work for the ADA units at Isabella is extensive, so much so that the work in the chase necessitates respective "stacks" of units to be renovated simultaneously.</b>
Q12	Will the ADA units be completed first?
	<b>Yes at Isabella. The ADA units are 118, 119, 218, 219, 318, 319, 418, 419, 518, 519, 618, 619, 718, 719.</b>
Q13	When can we visit the units?
	<b>Representative units at Isabella may be visited at 8:00 a.m. on either November 21<sup>st</sup> or the 26<sup>th</sup>.</b>
Q14	Discuss flooring in light of the ceramic tile in the restrooms.
	<b>Prepare existing flooring surfaces to receive new floor surface. Where existing floor surface is ceramic tile, provide specified sub-floor filler so as to eliminate pattern telegraphing through new flooring.</b>
Q15	The project specifications do not appear to include any information pertaining to the EFIS work required. Can this information be provided please?
	<b>Please refer to added specification section: 07 24 00 -Exterior Insulation and Finish Systems.</b>
Q16	Does this site have a freight elevator?
	<b>No but the successful vendor can use the elevators, nonetheless.</b>
Q17	Are you sure there is a key punch machine for the specified locks? I cannot find one.
	<b>Yes. It is a Pro Lok BP201IC.</b>
Q18	Section 08 14 16, the specifications for Flush Wood Doors says "Field Transparent Finish" but in another place it says "Factory Finish." Which is it?
	<b>Please refer to revised specification which clarifies field finishing.</b>
Q19	The door schedule calls for "Hm Door Frames" but I don't see any specifications for HM Frames. Please explain.
	<b>Please refer to added specification section: 08 12 13 Hollow Metal Frames.</b>
Q20	The Isabella Towers project states the 140 PTAC units will be provided by owner. This solicitation does not provide a separate form for suppliers to provide equipment only bid directly to KCDC, it only provides for total project quote. Will there be a separate solicitation issued for KCDC to procure these units? If not will the installing contractor be required to provide these units?
	<b>KCDC intends to purchase these units under an existing contract that it has in place.</b>
Q21	In relation to question 20, if an alternate approved manufacture, General Electric, is quoted, should the "Section 00 43 25 Substitution Request Form" still be submitted for approval as alternate to the Trane PTAC unit listed on schedule?
	<b>Yes.</b>
Q22	For my clarification, there are [2] buildings, one is a HIGH RISE the other is LOW RISE, correct?
	<b>Yes.</b>
Q23	At Isabella, the Door Schedule in Drawing [A6.1]. is it for the HIGH RISE, only, or is part of it for the LOW RISE?

	<b>The door schedule relates only to the high rise. There are no doors scheduled for the low rise.</b>
Q24	At Isabella, If the Door Schedule is for both buildings, which door numbers are for the LOW RISE and which numbers are for the HIGH RISE? If that is not the case where do I find the Door Schedule for the LOW RISE?
	<b>The door schedule relates only to the high rise. There are no doors scheduled for the low rise.</b>
Q25	Can you please confirm the total number of units in Isabella Towers? I want to confirm my unit estimate is correct.
	<b>Isabella has 236 apartments.</b>
Q26	Can prefinished casework in standard colors be used in lieu offield finished custom millwork?
	<b>Yes.</b>
Q27	Can KCDC extend the due date?
	<b>KCDC has changed the due date to 12-05-19 at 2:00 p.m.</b>

## **Revised** SECTION 08 71 00: DOOR HARDWARE

### **PART 1 GENERAL**

#### **1.01 SECTION INCLUDES**

- A. Hardware for wood and hollow metal doors.
- B. Lock cylinders for doors that hardware is specified in other sections.

#### **1.02 REFERENCE STANDARDS**

- A. ADA Standards - Americans with Disabilities Act (ADA) Standards for Accessible Design; 2010.
- B. BHMA A156.2 - American National Standard for Bored and Preamsembled Locks & Latches; 2017.
- C. BHMA A156.5 - American National Standard for Cylinders and Input Devices for Locks; 2014.
- D. BHMA A156.18 - American National Standard for Materials and Finishes; 2016.
- E. DHI (KSN) - Keying Systems and Nomenclature; 1989.
- F. ICC A117.1 - Accessible and Usable Buildings and Facilities; 2017.

#### **1.03 SUBMITTALS**

- A. See Section 01 30 00 - Administrative Requirements, for submittal procedures.
- B. Product Data: Manufacturer's catalog literature for each type of hardware, marked to clearly show products to be furnished for this project, and includes construction details, material descriptions, finishes, and dimensions and profiles of individual components.
- C. Manufacturer's Installation Instructions: Indicate special procedures and perimeter conditions requiring special attention.
- D. Warranty: Submit manufacturer's warranty and ensure that forms have been completed in Owner's name and registered with manufacturer.
- E. Maintenance Materials and Tools: Furnish the following for Owner's use in maintenance of project.
  - 1. See Section 01 60 00 - Product Requirements, for additional provisions.

#### **1.04 QUALITY ASSURANCE**

- A. Installer Qualifications: Company specializing in performing work of the type specified for commercial door hardware with at least three years of documented experience.

#### **1.05 DELIVERY, STORAGE, AND HANDLING**

- A. Package hardware items individually; label and identify each package with door opening code to match door hardware schedule.

#### **1.06 WARRANTY**

- A. Warranty against defects in material and workmanship for period indicated, from Date of Substantial Completion.
  - 1. Locksets and Cylinders: Three years, minimum.

## PART 2 PRODUCTS

### 2.01 DOOR LOCKS AND LEVERS

- 1). Manufacturers listed in the hardware specification are as follows:
  1. Locks and Deadbolts:
    - a. Manufacturer: Stanley or Pamex NO SUBSTITUTION
    - b. Substitutions: Model numbers and performance criteria for door hardware manufactured by Stanley and Pamex are listed to establish a standard of quality for design, function, materials, workmanship, and appearance. Specific materials and product manufacturer(s) are specified to maintain standard building finishes and materials across multiple facilities for ease of maintenance. Therefore KCDC will not entertain requests for substitute products for this item.
  - A. Cylindrical Locks: Meet or exceeds ANSI/BHMA A156.2 Series 4000, Grade 2. Locksets shall be capable of receiving 6 or 7 pin, Small Format Interchangeable Cores, (SFIC). Provide lock sets and latch sets with 2-3/4 inch backset unless otherwise determined from existing door preparations. Provide cylindrical lock sets and latch sets model "AL" series "Jupiter" (JUP) design levers manufactured by Stanley or Pamex.
  - B. Deadbolts: Meet or exceeds ANSI/BHMA A156.5. Deadbolts shall be capable of receiving 6 or 7 pin SFIC cores. Provide deadbolt locks with 2-3/4 inch backset unless otherwise indicated or determined from existing door preparations. Provide deadbolt locks, manufactured by Stanley or Pamex.
- 2). Locks shall be master keyed into new SFIC master key system. Supply 4 keys per lock, 4 master keys and 4 Control keys total. Unless otherwise indicated.
- 3). Finish: Lock sets, latch sets and deadbolt locks hardware shall be satin nickel finish (619).
- 4). Provide hardware and finishes used in any individual system from the same manufacturer; no exceptions.
- 5). Provide hardware sets as follows:

**Hardware Set #1:** each to have:

Existing hardware to remain except the following:

1	Lever Passage	Stanley QCL230E or Pamex Cambridge FL363
1	Deadlock	Stanley QDB281 or Pamex FD7PA

**Hardware Set #2:** each to have:

Existing hardware to remain except the following:

1	Lever Privacy	Stanley QCL240E or Pamex FL361C
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### 2.02 FINISHES

- A. Finishes: Provide door hardware of same finish, unless otherwise indicated.
  1. Primary Finish: Satin nickel (619).

**SECTION 08 12 13**  
**HOLLOW METAL FRAMES**

**PART 1 GENERAL**

**1.01 SECTION INCLUDES**

- A. Non-fire-rated hollow metal frames for non-hollow metal doors.
- B. Fire-rated hollow metal frames for non-hollow metal doors.

**1.02 RELATED REQUIREMENTS**

- A. Section 08 14 16 - Flush Wood Doors: Non-hollow metal door for hollow metal frames.
- B. Section 08 71 00 - Door Hardware: Hardware and silencers.

**1.03 REFERENCE STANDARDS**

- A. ADA Standards - Americans with Disabilities Act (ADA) Standards for Accessible Design; 2010.
- B. ANSI/SDI A250.4 - Test Procedure and Acceptance Criteria for Physical Endurance for Steel Doors, Frames and Frame Anchors; 2011.
- C. ANSI/SDI A250.6 - Recommended Practice for Hardware Reinforcing on Standard Steel Doors and Frames; 2003 (R2009).
- D. ANSI/SDI A250.8 - Specifications for Standard Steel Doors and Frames (SDI-100); 2017.
- E. ANSI/SDI A250.10 - Test Procedure and Acceptance Criteria for Prime Painted Steel Surfaces for Steel Doors and Frames; 2011.
- F. ASTM A653/A653M - Standard Specification for Steel Sheet, Zinc-Coated (Galvanized) or Zinc-Iron Alloy-Coated (Galvannealed) by the Hot-Dip Process; 2018.
- G. ASTM A1008/A1008M - Standard Specification for Steel, Sheet, Cold-Rolled, Carbon, Structural, High-Strength Low-Alloy, High-Strength Low-Alloy with Improved Formability, Solution Hardened, and Bake Hardenable; 2018.
- H. ASTM A1011/A1011M - Standard Specification for Steel, Sheet and Strip, Hot-Rolled, Carbon, Structural, High-Strength Low-Alloy, High-Strength Low-Alloy with Improved Formability, and Ultra-High Strength; 2018a.
- I. BHMA A156.115 - American National Standard for Hardware Preparation in Steel Doors and Steel Frames; 2016.
- J. ICC A117.1 - Accessible and Usable Buildings and Facilities; 2017.
- K. ITS (DIR) - Directory of Listed Products; current edition.
- L. NAAMM HMMA 805 - Recommended Selection and Usage Guide for Hollow Metal Doors and Frames; 2012.
- M. NAAMM HMMA 830 - Hardware Selection for Hollow Metal Doors and Frames; 2002.
- N. NAAMM HMMA 831 - Hardware Locations for Hollow Metal Doors and Frames; 2011.
- O. NAAMM HMMA 840 - Guide Specifications for Installation and Storage of Hollow Metal Doors and Frames; 2007.
- P. NAAMM HMMA 850 - Fire-Protection and Smoke Control Rated Hollow Metal Door and Frame Products; 2014.
- Q. NAAMM HMMA 860 - Guide Specifications for Hollow Metal Doors and Frames; 2013.

- R. NAAMM HMMA 861 - Guide Specifications for Commercial Hollow Metal Doors and Frames; 2014.
- S. NFPA 80 - Standard for Fire Doors and Other Opening Protectives; 2019.
- T. UL (DIR) - Online Certifications Directory; Current Edition.
- U. UL 10C - Standard for Positive Pressure Fire Tests of Door Assemblies; Current Edition, Including All Revisions.

#### **1.04 SUBMITTALS**

- A. See Section 01 30 00 - Administrative Requirements for submittal procedures.
- B. Product Data: Materials and details of design and construction, hardware locations, reinforcement type and locations, anchorage and fastening methods, and finishes; and one copy of referenced grade standard.
- C. Shop Drawings: Details of each opening, showing elevations, glazing, frame profiles, and identifying location of different finishes, if any.
- D. Manufacturer's Qualification Statement.
- E. Installer's Qualification Statement.

#### **1.05 QUALITY ASSURANCE**

- A. Manufacturer Qualifications: Company specializing in manufacturing products specified in this section, with not less than three years of documented experience.
- B. Installer Qualifications: Company specializing in performing work of the type specified and with at least three years of documented experience.

#### **1.06 DELIVERY, STORAGE, AND HANDLING**

- A. Store in accordance with applicable requirements and in compliance with standards and/or custom guidelines as indicated.
- B. Protect with resilient packaging; avoid humidity build-up under coverings; prevent corrosion.

### **PART 2 PRODUCTS**

#### **2.01 MANUFACTURERS**

- A. Hollow Metal Frames with Integral Casings:
  - 1. Steelcraft, an Allegion brand; 'F' Series: [www.allegion.com/#sle](http://www.allegion.com/#sle).
  - 2. Substitutions: See Section 01 60 00 - Product Requirements.

#### **2.02 PERFORMANCE REQUIREMENTS**

- A. Refer to Door and Frame Schedule on the drawings for frame sizes, fire ratings, sound ratings, finishing, door hardware to be installed, and other variations, if any.
- B. Door Frame Type: Provide hollow metal door frames with integral casings.
- C. Steel Sheet: Comply with one or more of the following requirements; galvanized steel complying with ASTM A653/A653M, cold-rolled steel complying with ASTM A1008/A1008M, or hot-rolled pickled and oiled (HRPO) steel complying with ASTM A1011/A1011M, commercial steel (CS) Type B, for each.
- D. Accessibility: Comply with ICC A117.1 and ADA Standards.
- E. Combined Requirements: If a particular door and frame unit is indicated to comply with more than one type of requirement, comply with the specified requirements for each type; for

instance, an exterior frame that is also indicated as being sound-rated must comply with the requirements specified for exterior frames and for sound-rated frames; where two requirements conflict, comply with the most stringent.

- F. Hardware Preparations, Selections and Locations: Comply with BHMA A156.115, NAAMM HMMA 830, NAAMM HMMA 831 or ANSI/SDI A250.8 (SDI-100) in accordance with specified requirements.

### **2.03 HOLLOW METAL DOOR FRAMES WITH INTEGRAL CASINGS**

- A. Interior Door Frames, Non-Fire Rated: Knock-down type.
  - 1. Based on NAAMM HMMA Custom Guidelines:
    - a. Comply with guidelines of NAAMM HMMA 861 for Commercial Hollow Metal Doors and Frames.
    - b. Performance Level 1 - Light Duty, in accordance with NAAMM HMMA 805.
    - c. Physical Performance Level C, 250,000 cycles; in accordance with ANSI/SDI A250.4.
    - d. Frame Metal Thickness: 16 gage, 0.053 inch (1.3 mm), minimum.
  - 2. Frame Finish: Factory primed and field finished.
- B. Fire-Rated Door Frames: Knock-down type.
  - 1. Based on NAAMM HMMA Custom Guidelines: Comply with NAAMM HMMA 850 requirements for fire-rated frames.
    - a. Comply with guidelines of NAAMM HMMA 861 for Commercial Hollow Metal Doors and Frames.
    - b. Performance Level 1 - Light Duty, in accordance with NAAMM HMMA 805.
    - c. Physical Performance Level C, 250,000 cycles; in accordance with ANSI/SDI A250.4.
    - d. Frame Metal Thickness: 16 gage, 0.053 inch (1.3 mm), minimum.
  - 2. Fire Rating: As indicated on Door and Frame Schedule, tested in accordance with UL 10C or NFPA 252 ("positive pressure fire tests").
  - 3. Provide units listed and labeled by ITS (DIR) or UL (DIR).
    - a. Attach fire rating label to each fire rated unit.
  - 4. Frame Finish: Factory primed and field finished.

### **2.04 FINISHES**

- A. Primer: Rust-inhibiting, complying with ANSI/SDI A250.10, door manufacturer's standard.

### **2.05 ACCESSORIES**

- A. Silencers: Resilient rubber, fitted into drilled hole; 3 on strike side of single door, 3 on center mullion of pairs, and 2 on head of pairs without center mullions.

## **PART 3 EXECUTION**

### **3.01 EXAMINATION**

- A. Verify existing conditions before starting work.
- B. Verify that opening sizes and tolerances are acceptable.
- C. Verify that finished walls are in plane to ensure proper door alignment.

### **3.02 INSTALLATION**

- A. Install frames in accordance with manufacturer's instructions and related requirements of specified frame standards or custom guidelines indicated.
- B. Install fire rated units in accordance with NFPA 80.

- C. Coordinate frame anchor placement with wall construction.
- D. Install door hardware as specified in Section 08 71 00.
  - 1. Comply with recommended practice for hardware placement of doors and frames in accordance with ANSI/SDI A250.6 or NAAMM HMMA 861.

### **3.03 TOLERANCES**

- A. Maximum Diagonal Distortion: 1/16 inch (1.6 mm) measured with straight edges, crossed corner to corner.

### **3.04 SCHEDULE**

- A. Refer to Door and Frame Schedule on the drawings.

**END OF SECTION**

### **2.03 KEYING MACHINE**

- A. Provide a Key Punch Pro-Lok by the lock and deadbolt manufacturer.

## **PART 3 EXECUTION**

### **3.01 EXAMINATION**

- A. Verify that doors and frames are ready to receive this work; labeled, fire-rated doors and frames are properly installed, and dimensions are as indicated on shop drawings.

### **3.02 INSTALLATION**

- A. Install hardware in accordance with manufacturer's instructions and applicable codes.

### **3.03 ADJUSTING**

- A. Adjust hardware for smooth operation.

### **3.04 CLEANING**

- A. Clean finished hardware in accordance with manufacturer's written instructions after final adjustments have been made.
- B. Clean adjacent surfaces soiled by hardware installation.

### **3.05 PROTECTION**

- A. Do not permit adjacent work to damage hardware or finish.

**END OF SECTION**

## Revised SECTION 08 14 16: FLUSH WOOD DOORS

### PART 1 GENERAL

#### 1.01 SECTION INCLUDES

- A. Flush wood doors; flush configuration; fire-rated and non-rated.

#### 1.02 RELATED REQUIREMENTS

- A. Section 08 12 13 - Hollow Metal Frames.
- B. Section 08 71 00 - Door Hardware.
- C. Section 09 93 00 - Staining and Transparent Finishing: Field finishing of doors.

#### 1.03 REFERENCE STANDARDS

- A. ANSI A135.4 - American National Standard for Basic Hardboard; 2012.
- B. ANSI A208.1 - American National Standard for Particleboard; 2009.
- C. AWI/AWMAC/WI (AWS) - Architectural Woodwork Standards; 2014, with Errata (2018).
- D. AWMAC/WI (NAAWS) - North American Architectural Woodwork Standards, U.S. Version 3.1; 2016, with Errata (2018).
- E. ICC (IBC) - International Building Code; Most Recent Edition Adopted by Authority Having Jurisdiction, Including All Applicable Amendments and Supplements.
- F. NFPA 80 - Standard for Fire Doors and Other Opening Protectives; 2019.
- G. NFPA 105 - Standard for Smoke Door Assemblies and Other Opening Protectives; 2016.
- H. NFPA 252 - Standard Methods of Fire Tests of Door Assemblies; 2017.
- I. UL (DIR) - Online Certifications Directory; Current Edition.
- J. UL 10B - Standard for Fire Tests of Door Assemblies; Current Edition, Including All Revisions.
- K. UL 10C - Standard for Positive Pressure Fire Tests of Door Assemblies; Current Edition, Including All Revisions.
- L. WDMA I.S. 1A - Interior Architectural Wood Flush Doors; 2013.

#### 1.04 SUBMITTALS

- A. See Section 01 30 00 - Administrative Requirements, for submittal procedures.
- B. Product Data: Indicate door core materials and construction; veneer species, type and characteristics.
- C. Shop Drawings: Show doors and frames, elevations, sizes, types, swings, undercuts, beveling, blocking for hardware, factory machining, cutouts for glazing and other details.
- D. Samples: Submit two samples of door veneer, illustrating wood grain, stain color, and sheen.
- E. Manufacturer's Installation Instructions: Indicate special installation instructions.
- F. Manufacturer's Qualification Statement.
- G. Installer's Qualification Statement.
- H. Specimen warranty.
- I. Warranty, executed in Owner's name.

## **1.05 QUALITY ASSURANCE**

- A. Maintain one copy of the specified door quality standard on site for review during installation and finishing.
- B. Manufacturer Qualifications: Company specializing in manufacturing the products specified in this section, with not less than three years of documented experience.
- C. Installer Qualifications: Company specializing in performing work of the type specified in this section, with not less than three years of documented experience.

## **1.06 DELIVERY, STORAGE, AND HANDLING**

- A. Package, deliver and store doors in accordance with specified quality standard.
- B. Accept doors on site in manufacturer's packaging. Inspect for damage.
- C. Protect doors with resilient packaging sealed with heat shrunk plastic. Do not store in damp or wet areas; or in areas where sunlight might bleach veneer. Seal top and bottom edges with tinted sealer if stored more than one week. Break seal on site to permit ventilation.

## **1.07 WARRANTY**

- A. See Section 01 78 00 - Closeout Submittals, for additional warranty requirements.
- B. Interior Doors: Provide manufacturer's warranty for 2 years.
- C. Include coverage for delamination of veneer, warping beyond specified installation tolerances, defective materials, and telegraphing core construction.

## **PART 2 PRODUCTS**

### **2.01 DOORS AND PANELS**

- A. Doors: Refer to drawings for locations and additional requirements.
  - 1. Quality Standard: Custom Grade, Standard Duty performance, in accordance with AWI/AWMAC/WI (AWS) or AWMAC/WI (NAAWS), unless noted otherwise.
  - 2. Wood Veneer Faced Doors: 5-ply unless otherwise indicated.
- B. Interior Doors: 1-3/4 inches (44 mm) thick unless otherwise indicated; flush construction.
  - 1. Provide solid core doors at each location.
  - 2. Fire Rated Doors: Tested to ratings indicated on drawings in accordance with UL 10C - Positive Pressure; Underwriters Laboratories Inc (UL) or Intertek/Warnock Hersey (WHI) labeled without any visible seals when door is open.
  - 3. Wood veneer facing for field transparent finish as indicated on drawings.

### **2.02 DOOR AND PANEL CORES**

- A. Non-Rated Solid Core and 20 Minute Rated Doors: Type particleboard core (PC), plies and faces as indicated.
- B. Fire-Rated Doors: Mineral core type, with fire resistant composite core (FD), plies and faces as indicated above; with core blocking as required to provide adequate anchorage of hardware without through-bolting.

## **2.03 DOOR FACINGS**

- A. Veneer Facing for Transparent Finish: Match existing species and finish, veneer grade in accordance with quality standard indicated, plain sliced (flat cut), with book match between leaves of veneer, running match of spliced veneer leaves assembled on door or panel face.

## **2.04 DOOR CONSTRUCTION**

- A. Fabricate doors in accordance with door quality standard specified.
- B. Cores Constructed with stiles and rails:
  - 1. Provide solid blocks at lock edge for hardware reinforcement.
  - 2. Provide solid blocking for other throughbolted hardware.
- C. Factory machine doors for hardware other than surface-mounted hardware, in accordance with hardware requirements and dimensions.
- D. Factory fit doors for frame opening dimensions identified on shop drawings, with edge clearances in accordance with specified quality standard.
  - 1. Exception: Doors to be field finished.
- E. Provide edge clearances in accordance with the quality standard specified.

## **2.05 WOOD VENEER DOORS**

- A. Finish work in accordance with AWI/AWMAC/WI (AWS) or AWMAC/WI (NAAWS), Section 5 - Finishing for grade specified and as follows:
  - 1. Transparent:
    - a. System - 1, Lacquer, Nitrocellulose.
    - b. Stain: As selected by Architect.
    - c. Sheen: Flat.
- B. Not used.

## **2.06 ACCESSORIES**

- A. Hollow Metal Door Frames: As specified in Section 08 12 13.
- B. Door Hardware: As specified in Section 08 71 00.

## **PART 3 EXECUTION**

### **3.01 EXAMINATION**

- A. Verify existing conditions before starting work.
- B. Verify that opening sizes and tolerances are acceptable.
- C. Do not install doors in frame openings that are not plumb or are out-of-tolerance for size or alignment.

### **3.02 INSTALLATION**

- A. Install doors in accordance with manufacturer's instructions and specified quality standard.
  - 1. Install fire-rated doors in accordance with NFPA 80 requirements.
- B. Not used.
- C. Field-Finished Doors: Trimming to fit is acceptable.
  - 1. Adjust width of non-rated doors by cutting equally on both jamb edges.
  - 2. Trim maximum of 3/4 inch (19 mm) off bottom edges.

- 3. Trim fire-rated doors in strict compliance with fire rating limitations.
- D. Use machine tools to cut or drill for hardware.
- E. Coordinate installation of doors with installation of frames and hardware.

### **3.03 TOLERANCES**

- A. Comply with specified quality standard for fit and clearance tolerances.
- B. Comply with specified quality standard for telegraphing, warp, and squareness.

### **3.04 ADJUSTING**

- A. Adjust doors for smooth and balanced door movement.
- B. Adjust closers for full closure.

**END OF SECTION**

## **Revised SECTION 09 65 00: RESILIENT FLOORING**

### **PART 1 GENERAL**

#### **1.01 SECTION INCLUDES**

- A. Resilient sheet flooring.
- B. Resilient tile flooring.
- C. Installation accessories.

#### **1.02 REFERENCE STANDARDS**

- A. ASTM F1700 - Standard Specification for Solid Vinyl Floor Tile; 2013a.
- B. ASTM F1913 - Standard Specification for Vinyl Sheet Floor Covering Without Backing; 2004 (Reapproved 2014).

#### **1.03 SUBMITTALS**

- A. See Section 01 30 00 - Administrative Requirements, for submittal procedures.
- B. Selection Samples: Submit manufacturer's complete set of color samples for Architect's initial selection.
- C. Verification Samples: Submit two samples, illustrating color and pattern for each resilient flooring product specified.
- D. Maintenance Data: Include maintenance procedures, recommended maintenance materials, and suggested schedule for cleaning, stripping, and re-waxing.

#### **1.04 QUALITY ASSURANCE**

- A. Manufacturer Qualifications: Company specializing in manufacturing specified flooring with minimum three years documented experience.
- B. Installer Qualifications: Company specializing in installing specified flooring with minimum three years documented experience.

#### **1.05 DELIVERY, STORAGE, AND HANDLING**

- A. Upon receipt, immediately remove any shrink-wrap and check materials for damage and the correct style, color, quantity and run numbers.
- B. Store all materials off of the floor in an acclimatized, weather-tight space.
- C. Maintain temperature in storage area between 55 degrees F and 90 degrees F.
- D. Protect roll materials from damage by storing on end.

#### **1.06 FIELD CONDITIONS**

- A. Store materials for not less than 48 hours prior to installation in area of installation at a temperature of 70 degrees F to achieve temperature stability. Thereafter, maintain conditions above 55 degrees F.

### **PART 2 PRODUCTS**

#### **2.01 TILE FLOORING**

- A. Vinyl Tile: Printed film type, with transparent or translucent wear layer.
  - 1. Manufacturers:
    - a. Gerflor Creation Clic; Luxury Vinyl Tiles:  
<https://www.gerflorusa.com/professionals-products/floor/creation-clic-system.html>

- b. Substitutions: Model numbers and performance criteria for Resilient Flooring manufactured by Gerflor are listed to establish a standard of quality for design, function, materials, workmanship, and appearance. Specific materials and product manufacturer(s) are specified to maintain standard building finishes and materials across multiple facilities for ease of maintenance. Therefore KCDC will not entertain requests for substitute products for this item.
- 2. Minimum Requirements: Comply with ASTM F1700, of Class corresponding to type specified.
- 3. Wear Layer Thickness: 28 mil.
- 4. Total Thickness: 0.25 inch.
- 5. Pattern: Wood.
- 6. Color: Corridors: #0360 – Deep Forest.  
Units: As selected by owner from manufacturer’s standard color selection.

## **2.02 ACCESSORIES**

- A. Adhesive for Vinyl Flooring:
  - 1. Manufacturers:
    - a. Basis-of-Design Product: Gerflor Gerfix LVT Spray.
    - b. Coverage Type: Full-surface application.
    - c. Maximum relative humidity of 95% when tested in accordance with ASTM F 2170.
    - d. Maximum moisture vapor emission rate of 8 pounds per 1000 sq. ft. in 24 hours when tested in accordance with ASTM F1869.
    - e. Substitutions: Model numbers and performance criteria for Resilient Flooring manufactured by Gerflor are listed to establish a standard of quality for design, function, materials, workmanship, and appearance. Specific materials and product manufacturer(s) are specified to maintain standard building finishes and materials across multiple facilities for ease of maintenance. Therefore KCDC will not entertain requests for substitute products for this item.
- B. Moldings, Transition and Edge Strips: Metal.
- c. Sub-Floor Filler: Ardex Engineered Cements
  - 1. Where application thickness is 1/4 inch or less, provide Ardex Feather Finish per manufacturer’s instructions.
  - 2. Where application thickness is greater than ¼ inch, provide Ardex K-15 Self Leveler in conjunction with Ardex P-82 Primer per manufacturer’s instructions.

## **PART 3 EXECUTION**

### **3.01 EXAMINATION**

- A. Verify that surfaces are flat to tolerances acceptable to flooring manufacturer, free of cracks that might telegraph through flooring, clean, dry, and free of curing compounds, surface hardeners, and other chemicals that might interfere with bonding of flooring to substrate.
- B. Cementitious Sub-floor Surfaces: Verify that substrates are dry enough and ready for resilient flooring installation by testing for moisture and pH.
  - 1. Test in accordance with ASTM F710.
  - 2. Obtain instructions if test results are not within limits recommended by resilient flooring manufacturer and adhesive materials manufacturer.

### **3.02 PREPARATION**

- A. Remove existing resilient flooring and flooring adhesives; follow the recommendations of RFCI (RWP).
- B. Prepare floor substrates as recommended by flooring and adhesive manufacturers.
- C. Remove sub-floor ridges and bumps. Fill minor low spots, cracks, joints, holes, and other defects with sub-floor filler to achieve smooth, flat, hard surface.
- D. Prepare exiting flooring surfaces to receive new floor surface. Where existing floor surface is ceramic tile, provide sub-floor filler so as to eliminate pattern telegraphing through new flooring.
- E. Prohibit traffic until filler is fully cured.
- F. Clean substrate.
- G. Apply primer as required to prevent "bleed-through" or interference with adhesion by substances that cannot be removed.

### **3.03 INSTALLATION - GENERAL**

- A. Starting installation constitutes acceptance of sub-floor conditions.
- B. Install in accordance with manufacturer's written instructions.
- C. Adhesive-Applied Installation:
  - 1. Spread only enough adhesive to permit installation of materials before initial set.
  - 2. Fit joints and butt seams tightly.
  - 3. Set flooring in place, press with heavy roller to attain full adhesion.
- D. Where type of floor finish, pattern, or color are different on opposite sides of door, terminate flooring under centerline of door.
- E. Install edge strips at unprotected or exposed edges, where flooring terminates, and where indicated.
  - 1. Metal Strips: Attach to substrate before installation of flooring using stainless steel screws.
- F. Scribe flooring to walls, columns, cabinets, floor outlets, and other appurtenances to produce tight joints.

### **3.04 INSTALLATION - TILE FLOORING**

- A. Mix tile from container to ensure shade variations are consistent when tile is placed, unless otherwise indicated in manufacturer's installation instructions.
- B. Lay flooring with joints and seams parallel to building lines to produce symmetrical pattern.
- C. Install plank tile with a random offset of at least 6 inches from adjacent rows.

### **3.05 CLEANING**

- A. Remove excess adhesive from floor, base, and wall surfaces without damage.
- B. Clean in accordance with manufacturer's written instructions.

### **3.06 PROTECTION**

- A. Prohibit traffic on resilient flooring for 48 hours after installation.

**END OF SECTION**

**SECTION 07 24 00**  
**EXTERIOR INSULATION AND FINISH SYSTEMS**

**PART 1 GENERAL**

**1.01 SECTION INCLUDES**

- A. Composite wall cladding of rigid insulation and reinforced finish coating (Class PB).
- B. Incidental uses of same finish coating applied directly to concrete and masonry.
- C. Scope of EIFS work includes:
  - 1. Replace lamina at all balcony edges.
  - 2. Repair/Replace as required at various locations per quantity allowance.

**1.02 RELATED REQUIREMENTS**

- A. Section 07 92 00 - Joint Sealants: Sealing joints between EIFS and adjacent construction and penetrations through EIFS.

**1.03 REFERENCE STANDARDS**

- A. ASTM B117 - Standard Practice for Operating Salt Spray (Fog) Apparatus; 2018.
- B. ASTM C1063 - Standard Specification for Installation of Lathing and Furring to Receive Interior and Exterior Portland Cement-Based Plaster; 2019.
- C. ASTM C1397 - Standard Practice for Application of Class PB Exterior Insulation and Finish Systems (EIFS) and EIFS with Drainage; 2013 (Reapproved 2019).
- D. ASTM D968 - Standard Test Methods for Abrasion Resistance of Organic Coatings by Falling Abrasive; 2017.
- E. ASTM D2247 - Standard Practice for Testing Water Resistance of Coatings in 100% Relative Humidity; 2015.
- F. ASTM D3273 - Standard Test Method for Resistance to Growth of Mold on the Surface of Interior Coatings in an Environmental Chamber; 2016.
- G. ASTM E331 - Standard Test Method for Water Penetration of Exterior Windows, Skylights, Doors, and Curtain Walls by Uniform Static Air Pressure Difference; 2000 (Reapproved 2016).
- H. ASTM E2486/E2486M - Standard Test Method for Impact Resistance of Class PB and PI Exterior Insulation and Finish Systems (EIFS); 2013 (Reapproved 2018).
- I. ASTM G153 - Standard Practice for Operating Enclosed Carbon Arc Light Apparatus for Exposure of Nonmetallic Materials; 2013.
- J. ASTM G155 - Standard Practice for Operating Xenon Arc Light Apparatus for Exposure of Nonmetallic Materials; 2013.
- K. ICC-ES AC219 - Acceptance Criteria for Exterior Insulation and Finish Systems; 2009, with Editorial Revision (2014).
- L. ICC-ES AC235 - Acceptance Criteria for EIFS Clad Drainage Wall Assemblies; 2009, with Editorial Revision (2012).
- M. NFPA 259 - Standard Test Method for Potential Heat of Building Materials; 2018.
- N. NFPA 268 - Standard Test Method for Determining Ignitibility of Exterior Wall Assemblies Using a Radiant Heat Energy Source; 2012.

- O. NFPA 285 - Standard Fire Test Method for Evaluation of Fire Propagation Characteristics of Exterior Non-Load-Bearing Wall Assemblies Containing Combustible Components; 2012.

#### **1.04 SUBMITTALS**

- A. See Section 01 30 00 - Administrative Requirements, for submittal procedures.
- B. Product Data: Provide data on system materials, product characteristics, performance criteria, and system limitations.
- C. Manufacturer's Installation Instructions: Indicate preparation required, installation techniques, and jointing requirements.

#### **1.05 QUALITY ASSURANCE**

- A. Maintain copy of specified installation standard and manufacturer's installation instructions at project site during installation.
- B. EIFS Manufacturer Qualifications: Provide EIFS products other than insulation from the same manufacturer with qualifications as follows:
  - 1. Member in good standing of EIMA (EIFS Industry Members Association).
  - 2. Manufacturer of EIFS products for not less than 5 years.
- C. Insulation Manufacturer Qualifications: Approved by manufacturer of EIFS and approved and labeled under third party quality program as required by applicable building code.
- D. Installer Qualifications: Company specializing in the type of work specified and with at least three years of documented experience.

#### **1.06 DELIVERY, STORAGE, AND HANDLING**

- A. Delivery: Deliver materials to project site in manufacturer's original, unopened containers with labels intact. Inspect materials and notify manufacturer of any discrepancies.
- B. Storage: Store materials as directed by manufacturer's written instructions.
  - 1. Protect adhesives and finish materials from freezing, temperatures below 40 degrees F (4 degrees C) and temperatures in excess of 90 degrees F (32 degrees C).
  - 2. Protect Portland cement based materials from moisture and humidity. Store under cover off the ground in a dry location.
  - 3. Protect insulation materials from exposure to sunlight.

#### **1.07 FIELD CONDITIONS**

- A. Do not prepare materials or apply EIFS under conditions other than those described in the manufacturer's written instructions.
- B. Do not prepare materials or apply EIFS during inclement weather unless areas of installation are protected. Protect installed EIFS areas from inclement weather until dry.
- C. Do not install coatings or sealants when ambient temperature is below 40 degrees F (5 degrees C).
- D. Do not leave installed insulation board exposed to sunlight for extended periods of time.

#### **1.08 WARRANTY**

- A. See Section 01 78 00 - Closeout Submittals, for additional warranty requirements.
- B. Provide manufacturer's standard material warranty, covering a period of not less than 5 years.
- C. Provide separate warranty from installer covering labor for repairs or replacement for a period of not less than 5 years.

## **PART 2 PRODUCTS**

### **2.01 EXTERIOR INSULATION AND FINISH SYSTEM**

- A. Exterior Insulation and Finish System: Repairs matching existing adjacent type; reinforced finish coating on insulation board adhesive-applied direct to substrate; provide a complete system that has been tested to show compliance with the following characteristics; include all components of specified system and substrate in tested samples. Maintain existing shapes and profiles, including but not limited to the balcony edge reveal for condensate drainage.
- B. Fire Characteristics:
  - 1. Flammability: Pass, when tested in accordance with NFPA 285.
  - 2. Ignitibility: No sustained flaming when tested in accordance with NFPA 268.
  - 3. Potential Heat of Foam Plastic Insulation Tested Independently of Assembly: No portion of the assembly having potential heat that exceeds that of the insulation sample tested for flammability (above), when tested in accordance with NFPA 259 with results expressed in Btu per square foot (mJ/sq m).
- C. Water Penetration Resistance: No water penetration beyond the plane of the base coat/insulation board interface after 15 minutes, when tested in accordance with ASTM E331 at 6.24 psf (299 Pa) differential pressure with tracer dye in the water spray; include in tested sample at least two vertical joints and one horizontal joint of same type to be used in construction; disassemble sample if necessary to determine extent of water penetration.
- D. Salt Spray Resistance: No cracking, checking, crazing, erosion, blistering, peeling, delamination, or corrosion of finish coating after 300 hours exposure in accordance with ASTM B117, using at least three samples matching intended assembly, at least 4 by 6 inches (100 by 150 mm ) in size.
- E. Freeze-Thaw Resistance: No cracking, checking, crazing, erosion, blistering, peeling, delamination, or corrosion of finish coating when viewed under 5x magnification after 10 cycles, when tested in accordance with ICC-ES AC219 or ICC-ES AC235.
- F. Weathering Resistance: No cracking, checking, crazing, erosion, blistering, peeling, delamination, or corrosion of finish coating when viewed under 5x magnification after 2000 hours of accelerated weathering conducted in accordance with ASTM G153 Cycle 1 or ASTM G155 Cycles 1, 5, or 9.
- G. Water Degradation Resistance: No cracking, checking, crazing, erosion, blistering, peeling, delamination, or corrosion of finish coating after 14 days exposure, when tested in accordance with ASTM D2247.
- H. Mildew Resistance: No growth supported on finish coating during 28 day exposure period, when tested in accordance with ASTM D3273.
- I. Abrasion Resistance Of Finish: No cracking, checking or loss of film integrity when tested in accordance with ASTM D968 with 113.5 gallons (500 liters) of sand.
- J. Impact Resistance: Construct system to provide the following impact resistance without exposure of broken reinforcing mesh, when tested in accordance with ASTM E2486/E2486M:
  - 1. Standard: 25 to 49 in-lb (2.83 to 5.54 J), for areas not indicated as requiring higher impact resistance.

## **2.02 MATERIALS**

- A. Finish Coating Top Coat: Water-based, air curing, acrylic or polymer-based finish with integral color and texture. Color and texture to match existing adjacent.
- B. Base Coat: Fiber-reinforced, acrylic or polymer-based product compatible with insulation board and reinforcing mesh, Class PB.
- C. Reinforcing Mesh: Balanced, open weave glass fiber fabric, treated for compatibility and improved bond with coating, weight, strength, and number of layers as required to meet required system impact rating.

## **2.03 ACCESSORY MATERIALS**

- A. Insulation Adhesive: Type required by EIFS manufacturer for project substrate.
- B. Trim: EIFS manufacturer's standard trim accessories, as required for a complete project.
- C. Sealant Materials: Compatible with EIFS materials and as recommended by EIFS manufacturer.

## **PART 3 EXECUTION**

### **3.01 EXAMINATION**

- A. Verify that substrate is sound and free of oil, dirt, other surface contaminants, efflorescence, loose materials, or protrusions that could interfere with EIFS installation and is of a type and construction that is acceptable to EIFS manufacturer. Do not begin work until substrate and adjacent materials are complete and thoroughly dry.
- B. Verify that substrate surface is flat, with no deviation greater than 1/4 in (6 mm) when tested with a 10 ft (3 m) straightedge.

### **3.02 PREPARATION**

- A. Install self-furring metal lath over solid substrates that are deemed unacceptable to receive adhesively applied insulation. Install in accordance with ASTM C1063, except for butt-lapping instead of overlapping.
  - 1. Attach to concrete and concrete masonry using corrosion-resistant power or powder actuated fasteners or hardened concrete stub nails not less than 3/4 inch (19 mm) long and with heads not less than 3/8 inch (9.5 mm) wide. Ensure that fasteners are securely attached to substrate and spaced at maximum 16 inches (406 mm) on center horizontally and 7 inches (178 mm) vertically.

### **3.03 INSTALLATION - GENERAL**

- A. Install in accordance with EIFS manufacturer's instructions and ASTM C1397.
  - 1. Where different requirements appear in either document, comply with the most stringent.
  - 2. Neither of these documents supercedes provisions of Contract Documents that defines contractual relationships between parties or scope of this work.

### **3.04 INSTALLATION - INSULATION**

- A. Install in accordance with manufacturer's instructions.
- B. Install back wrap reinforcing mesh at all openings and terminations that are not to be protected with trim.
- C. On wall surfaces, install boards horizontally.

- D. Place boards in a method to maximize tight joints. Stagger vertical joints and interlock at corners. Butt edges and ends tight to adjacent board and to protrusions. Achieve a continuous flush insulation surface, with no gaps in excess of 1/16 inch (1.6 mm).
- E. Fill gaps greater than 1/16 inch (1.6 mm) with strips or shims cut from the same insulation material.
- F. Rasp irregularities off surface of installed insulation board.
- G. Adhesive Attachment: Use method recommended by EIFS manufacturer.

### **3.05 INSTALLATION - CLASS PB FINISH**

- A. Base Coat: Apply in thickness as necessary to fully embed reinforcing mesh, wrinkle free, including back-wrap at terminations of EIFS. Install reinforcing fabric as recommended by EIFS manufacturer.
  - 1. Lap reinforcing mesh edges and ends a minimum of 2-1/2 inches (64 mm).
  - 2. Allow base coat to dry a minimum of 24 hours before next coating application.
- B. Apply finish coat after base coat has dried not less than 24 hours, embed finish aggregate, and finish to a uniform texture and color.
- C. Finish Coat Thickness: As recommended by manufacturer.
- D. Seal control and expansion joints within the field of exterior finish and insulation system, using procedures recommended by sealant and finish system manufacturers.

### **3.06 CLEANING**

- A. Clean EIFS surfaces and work areas of foreign materials resulting from EIFS operations.

### **3.07 PROTECTION**

- A. Protect completed work from damage and soiling by subsequent work.

**END OF SECTION**