From: John Stalder <john@e-corp4u.com>
Sent: Thursday, March 24, 2022 11:17 AM
To: Steve Peterson <<u>stevep@clhae.com</u>>
Cc: Russ Tonks <<u>russ@e-corp4u.com</u>>; Osman Uygun <<u>osman@e-corp4u.com</u>>
Subject: Reconfigure M1 Room ARTCC Project RFI #1

Steve,

Here are some questions

Doors & Hardware

1. The door schedule indicates the hardware groups are in the spec. we cannot find hardware groups in the spec nor does the door schedule list the hardware group for each door. Can you provide this information. – See revised A601 and Spec 08710.

Drywall

- On sheet A1.1 I don't see wall types called out for the offices on the right side of the plan. Are these all type A? Break room walls show type B & D but the other two walls are not called out. See attached revised A1.1.
- 2. Some of the walls are colored RED and some Light BLUE. What is this to indicate? See attached revised A1.1, wall hatch legend

Acoustical Ceiling

 Does the control room get new acoustical ceiling? Where does it stop at grid line K? We do not, unable to access this area of building, We believe it stops at K? E-Corp researching.

Access flooring

- Para 2.1.C.2 of the Access Flooring Spec calls out for an Ultimate Load for the panel of 3,100 lbs/in², however the Ultimate Load for the speced ConCore 1250 panel is always 2 x Concentrated Load of 1,250 lbs/in² or 2,500 lbs/in² by industry standards.
 2,500 lbs/in2 is acceptable.
- 2. Para 2.4.A.6 calls out for a bolted stringer system to gravity-hold the panels in place. This is appropriate for factory-finished tiled panels that shouldn't have screw holes drilled into the tile to secure the panel to the pedestal. However, para 2.7.C calls out for a corner-locked panel system. This is appropriate when field-applied finishes by others are required that will cover the corner-lock screws holding the panels in place. The Finish Plan Sheet A102 is calling out for the finish on top of the Access Floor in the Control Rm to be 24" x 24" Masland Speak T503 Vibrato #50308 "Azores" carpet tile. Please confirm this carpet finish will be field-applied by others on our bare cornerlocked panel system.

We need to match existing raised flooring in Control Room.

3. Para 2.4.A.6 calls out for mechanical anchors to secure our pedestals to the slab. Will our standard pedestal adhesive be acceptable in lieu of anchors if a licensed structural engineer confirms it by calculations? (She would require the weight, dimensions, and method of seismic bracing for any heavy equipment on top of the flooring in order to determine pedestal type and method of attachment.)

4. The Finish Schedule on Sheet A102 calls out for both CPT-1 and VCT-1 in the Control Rm, but we could only locate the location for the carpet tile. Please advise where the VCT-1 goes and confirm both it and the carpet tile will be field-applied by others.

Carpet is shown on raised flooring, and VCT is shown on the concrete floor to both sides. Carpet and VCT installation is means and methods?

Flooring

- The finish schedule calls for CPTO-1 in the mechanical storage room (1051B) but the floor plan shows Vinyl Composition Tile. Which is correct?
 VCT is correct see revised A102
- Control RM 1052 shows vinyl composition tile on each side of the access flooring. Is this flooring to be new? If so, where does it stop?
 Yes on the flooring is new, we think grid K, unable to access this area. E-Corp researching.

John Stalder, Sr. Estimator E-Corp 1598 North Hill Field Rd, Ste. B Layton, UT 84041

O: (801) 771-0933 x 111 | C: (801) 631-6748 john@e-corp4u.com | www.e-corp4u.com US GREEN BUILDING COUNCIL Member

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From: Walt Harriman <<u>wharriman@puglieseinteriors.com</u>>
Sent: Monday, March 21, 2022 5:22 PM
To: John Stalder <<u>john@e-corp4u.com</u>>
Subject: RE: Bid Invite: Reconfigure M1 Room ARTCC Project

John,

Before we can give you a meaningful bid, we have some RFI questions for clarification of the Access Flooring scope:

- Para 2.1.C.2 of the Access Flooring Spec calls out for an Ultimate Load for the panel of 3,100 lbs/in², however the Ultimate Load for the speced ConCore 1250 panel is always 2 x Concentrated Load of 1,250 lbs/in² or 2,500 lbs/in² by industry standards.
- 2. Para 2.4.A.6 calls out for a bolted stringer system to gravity-hold the panels in place. This is appropriate for factory-finished tiled panels that shouldn't have screw holes drilled into the tile to secure the panel to the pedestal. However, para 2.7.C calls out for a corner-locked panel system. This is appropriate when field-applied finishes by others are required that will cover the corner-lock screws holding the panels in place. The

Finish Plan Sheet A102 is calling out for the finish on top of the Access Floor in the Control Rm to be 24" x 24" Masland Speak T503 Vibrato #50308 "Azores" carpet tile. Please confirm this carpet finish will be field-applied by others on our bare corner-locked panel system.

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- 4. The Finish Schedule on Sheet A102 calls out for both CPT-1 and VCT-1 in the Control Rm, but we could only locate the location for the carpet tile. Please advise where the VCT-1 goes and confirm both it and the carpet tile will be field-applied by others.

Regards, Walt Harríman, LEED® Green Associate

Pugliese Interior Systems (Tate Access Floors) 30182 Esperanza Rancho Santa Margarita, CA 92688 949-837-9194 949-837-1208 (fax) www.puglieseinteriors.com

From: John Stalder (E Corp) <<u>team@buildingconnected.com</u>>
Sent: Tuesday, March 15, 2022 3:08 PM
To: Walt Harriman <<u>wharriman@puglieseinteriors.com</u>>
Subject: Bid Invite: Reconfigure M1 Room ARTCC Project





John Stalder from E Corp has invited you to bid on

Reconfigure M1 Room ARTCC: Access Flooring



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KEY NOTES:

 \langle A1 angle provide vertical control joints at 30'-0" in New GWB. SEE DETAIL C7/A504, ALIGN JOINTS WITH DOOR JAMBS WHERE POSSIBLE. CONTROL JOINT IS NOT REQUIRED IN SHEAR WALLS- WALL TYPE "B"

A2 > PROVIDE OPERABLE (STACKABLE) PARTITION, MOUNTED TO

 \langle A3 \rangle SEMI-RECESSED FIRE EXTINGUISHER CABINET WITH DRY CHEMICAL FIRE EXTINGUISHER. PROVIDE BLOCKING AS REQUIRED. FIELD VERIFY EXACT LOCATION WITH PROJECT

 \langle A4 \rangle NEW RAISED FLOOR, SEE SPECIFICATION.

 \langle A5 \rangle 2.7" EXP JOINT BETWEEN EXISTING WALL AND NEW

A6 > PROVIDE HORIZONTAL BLOCKING FOR FLAT-SCREEN TV INSTALLATION (TV BY OTHERS). PROVIDE RECEPTACLE AT 48"AFF-SEE ELECTRICAL. COORDINATE EXACT LOCATION

 \langle A7 \rangle NEW RAISED FLOOR SYSTEM GUARD RAILS.

(A8) EXISTING RAISED FLOOR SYSTEM & RAMPS. REMOVE (E) GUARDRAIL AND PROVIDE NEW GUARDRAIL TO MEET ABA.

 \langle A9 \rangle PROVIDE NEW GUARD RAIL AT EXISTING RAISED FLOOR

(A10) BRIDGE GALLERY ABOVE AT COLUMN LINE 'K'.

 $\langle A_{11} \rangle$ location of New Door in Attic along column line 'm' IS APPROXIMATE. COORDINATE EXACT LOCATION WITH THE LOCATION OF EXISTING BEAM HANGERS.

(A12) INSTALL #6 DRYWALL SCREWS @ 12" O.C. ON EXISTING DRYWALL OVER BRIDGE AND 12" O.C. ON HORIZ TRACK.

 \langle A13 \rangle R-13 BATT INSUL ON TOP OF CEILING PANELS- TYP ALL

(A14) TEMP DUST PARTITION

 $\langle A15 \rangle$ INFILL EXISTING KO WALL PANEL WITH METAL PANELS TO MATCH EXISTING COLOR AND PROFILES.

(A16) FOR ENTIRE LENGTH (62 LINEAR FEET): PROVIDE PATCHING COMPOUND ON EXISTING DAMAGED VINYL GYPSUM WALL BETWEEN BRIDGE CEILING AND NEW CEILING TO HIDE ALL SCREWS, TEARS AND OTHER DAMAGE. PATCHING COMPOUND SHALL BE INSTALLED TO MAKE SMOOTH SEAMLESS SURFACE. PAINT ALL EXPOSED SURFACES.

WHERE PERIMETER INSULATION WITH VAPOR BARRIER IS MISSING OR DAMAGED, FURNISH AND INSTALL NEW INSULATION AND VAPOR BARRIER TO MATCH EXISTING.

 \langle A18 \rangle provide sign that states "storage for folding" PARTITION SHALL BE ON THIS SIDE ONLY".

 \langle A19 \rangle PROVIDE SIGN THAT STATES "STORAGE OF FOLDING" PARTITION PROHIBITED AT THIS END"

 $\langle A20 \rangle$ provide sign that states "No storage allowed on

 \langle A21 \rangle INSTALL PLYWOOD SHEATHING ON THIS FACE OF WALL

 $\langle A22 \rangle$ PROVIDE RETURN AIR OPENING OVER DOOR SEE MECH TO

\langle A23 \rangle PROVIDE SELF-CLOSING PIPE GATE

(A24) PROVIDE RETURN AIR OPENING IN FIRE WALL STUD SPACE-— SEE MECH AND STRUCTURAL

2

В REDLINE DATE APPROVED DESCRIPTION JCN DATE DEPARTMENT OF TRANSPORTATION FEDERAL AVIATION ADMINISTRATION WESTERN SERVICE AREA **ATO - TECHNICAL OPERATIONS** ARTCC **RECONFIGURE M1 ROOM** MAIN FLOOR PLAN ARCHITECTS LOS ANGELES CTR PALMDALE CA ENGINEERS APPROVED BY SUBMITTED BY REVIEWED BY Α ART GAPASIN DARYL KITCHEN PROJECT ENGINEER MGR. ENGINEERING - LA E-Corp DESIGNED DATE JCN ISSUED BY 02.04.2021 1004394 KDL ENGINEERING SERVICES DRAWN DRAWING NO KDL ZLA-D-ARTCC- A101 ENROUTE/FSS CHECKED SJP

GENERAL NOTES:

- 1. THE CONTRACTOR SHALL FIELD VERIFY ALL CONDITIONS PRIOR TO ANY WORK AND SHALL BE RESPONSIBLE FOR ALL WORK AND MATERIALS INCLUDING THOSE FURNISHED BY SUBCONTRACTORS.
- 2. ALL DIMENSIONS ON THE PLAN ARE FROM STUD SURFACE TO STUD SURFACE UNLESS OTHERWISE INDICATED.
- 3. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO LOCATE ALL EXISTING UTILITIES WHETHER SHOWN HEREIN OR NOT AND TO PROTECT THEM FROM DAMAGE.
- 4. ALL DEBRIS SHALL BE REMOVED FROM THE BUILDING AND ALL AREAS SHALL BE LEFT IN A BROOM CLEAN CONDITION AT THE END OF EACH WORK SHIFT.
- 5. THE CONTRACTOR IS SOLELY RESPONSIBLE FOR ALL CONSTRUCTION MEANS AND METHODS AND SHALL MAINTAIN THE STRUCTURAL INTEGRITY OF ANY CONSTRUCTION UNTIL ALL LOAD CARRYING SYSTEMS ARE COMPLETED.
- 6. REFER TO SHEET A504 FOR PARTITION TYPE 7. DO NOT PROVIDE OR INSTALL GYPSUM BOARD
- MANUFACTURED IN CHINA 8. CONTRACTOR SHALL PATCH ALL WALLS WHERE DEVICES HAVE BEEN REMOVED, INCLUDING BUT NOT LIMITED TO FIRE EXTINGUISHER CABINETS, AED CABINETS, LIGHT SWITCHES AND FIRE ALARM EQUIPMENT
- 9. NEW METAL STUD TO EXTEND TO NEW MEZZANINE DECK. GYPSUM BOARD TO EXTEND **6" ABOVE CEILING TYP EXCEPT AT FIRE** PARTITIONS AND SHEAR WALLS GYPSUM BOARD TO EXTEND TO DECK.
- 10. REFER TO STRUCTURAL DRAWINGS FOR METAL STUD DESIGN.
- 11. EXISTING PAINT ON STEEL BEAMS AND GRATING CONTAINS LEAD AND WILL NEED TO HAVE ABATEMENT PREFORMED, BY LICENSED CONTRACTOR.



KEY PLAN

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FINISH SCHEDULE										
ROOM				WALL FINISHES						
NUMBE R	NAME	FLOORNAMENAME	LOOR WALL NAME BASE	NORTH	WEST	SOUTH	EAST	CEILING FINISH	CEILING HEIGHT	COMMENTS
3	STAIR	-	-	-	-	-	-	-		NO WOBK IN THIS ABEA
1051		CPT-1	BB-1	PT-2	PT-2	PT-1	PT-1	ACP-1	9' - 0"	
1051A	BRK BM		RB-1	PT-1	PT-2	PT-3	PT-1	ACP-1	9' - 0"	WD-1 FOR MILLWORK/SS-1 FOR COUNTERTOP
1051B	MECH STOR	VCT-1 1	RB-1	PT-1	PT-3	PT-1	PT-1	ACP-1	9' - 0"	
1051C	(E) MECH		-	-	-	-	-	-		NO WORK IN THIS AREA
1051D	AREA A SUPERVISOR	CPT-1	RB-1	PT-1	PT-1	PT-3	PT-1	ACP-1	9' - 0"	
1051E	AREA B SUPERVISOR	CPT-1	RB-1	PT-1	PT-1	PT-3	PT-1	ACP-1	9' - 0"	
1051F	AREA C SUPERVISOR	CPT-1	RB-1	PT-1	PT-1	PT-3	PT-1	ACP-1	9' - 0"	
1051G	AREA D SUPERVISOR	CPT-1	RB-1	PT-1	PT-1	PT-3	PT-1	ACP-1	9' - 0"	
1051H	TECH OPS OFF	CPT-1	RB-1	PT-1	PT-1	PT-1	PT-3	ACP-1	9' - 0"	
10511	OFFICE	CPT-1	RB-1	PT-1	PT-1	PT-1	PT-3	ACP-1	9' - 0"	
1051J	AREA E SUPERVISOR	CPT-1	RB-1	PT-1	PT-1	PT-1	PT-3	ACP-1	9' - 0"	
1051K	AREA F SUPERVISOR	CPT-1	RB-1	PT-1	PT-1	PT-1	PT-3	ACP-1	9' - 0"	
1051L	STMC	CPT-1	RB-1	PT-3	PT-1	PT-1	PT-1	ACP-1	9' - 0"	
1051M	CONF RM	CPT-1	RB-1	PT-2	PT-1	PT-1		ACP-1	10' - 0"	PROVIDE SLIDER "IN USE / NOT IN USE" 8 ON NORTH END OF ROOM, AND 9 ON SOUTH END
1051N	CONF RM	CPT-1	RB-1	PT-2		PT-1	PT-1	ACP-1	10' - 0"	PROVIDE SLIDER "IN USE / NOT IN USE" 8 ON NORTH END OF ROOM, AND 9 ON SOUTH END
1051O	CORRIDOR	CPT-1	RB-1	PT-1	PT-2	PT-1	PT-2	ACP-1	9' - 0"	
1051P	CORRIDOR	CPT-1	RB-1	PT-2		PT-2		ACP-1	9' - 0"	
1051Q	CORRIDOR	CPT-1	RB-1	PT-2	PT-2	PT-2	PT-2	ACP-1	9' - 0"	
1051R	CORRIDOR	CPT-1	RB-1	PT-2		PT-2	PT-2	ACP-1	9' - 0"	
1052	CONTROL RM	CPT-1/VCT-1	RB-1	PT-1	AWP/PT-1	AWP/PT-1	PT-1	ACP-1	12' - 0"	
MEZZ	Room									PROVIDE (2) ONE AT WEST LADDER AND ONE AT EAST LADDER

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FINISHES LEGEND		GENERAL NOTES		
		1. SEE ROOM FINISH SCHE	DULE ON THIS SHEET FOR	
EXIST	ING FLOORING	ADDITIONAL INFORMATION 2. WORK ON EAST SIDE OF BETWEEN MIDNIGHT AND 2:00 AM TILL 5:00 AM. COO 3. MATCH NEW VINYL COMF	N DUST BARRIER WALL SHALL BE 5:30 AM PST. NOISY WORK IS FROM PRDINATE WITH COR. POSITION TILE (VCT) IN NORTH	н
		CONTROL ROOM AREA WI ENTRANCE OF CONTROL I	TH EXISTING VCT IN SOUTH ROOM. COORDINATE WITH COR.	
	. COMPOSITION TILE			
RAISE	ED FLOOR			G
CPT-1	CARPET			
TERIAL FINISHE	ES SCHEDULE			F
PAINT SHERWIN WILLIAMS- SW 7(036 ACCCESSIBLE BEIGE. SATIN S	HEEN. WALLS		
SHERWIN WILLIAMS- SW 76 SHERWIN WILLIAMS- SW 76 SHERWIN WILLIAMS- SW 76	643 PUSSY WILLOW, SATIN SHEEN 612 MOUNTAIN STREAM, SATIN SH 032 WARM STONE, SATIN SHEEN,	I, WALLS IEEN, WALLS WALLS		
1 MASLAND SPEAK T503 VIB	RATO #50308 AZORES 24x 24 TILE	1/4 TURN LAY		
ROPPE- #150 DARK GRAY,	4", INCLUDE OUTSIDE PREMOLDE	D CORNERS.		
ACOUSTICORD TRI/KES SC INSTALL HORIZONTALLY	URSE-ONE ACS-32 HEATHER 6'-7"	WIDE		
ACOUSTICAL CEI	LING TILE	ANGLED TEGULAR)		
OR OLYMPIA MICRO CLIMA	PLUS 4221 BY USG			
WOOD	/OOD SATIN		WING	
SOLID SURF	ACE			
COLOR TO BE SELECTED II	N SHOP DRAWINGS			
			AUTOMATION WING	
			KEY PLAN	
				C
	1 RFI 01 REV APPROVED DATE	DESCRIPTION	JCN REDLINE A DATE	
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STEVEN J. 5 PETERSON 6830295-0301 6	ATO - TECHNICAL OPE		WESTERN SERVICE AREA	_
SEDARCHICH	F	RECONFIGURE	M1 ROOM	
02/04/2022		FINISH PL	AN	
ARCHITECTS ENGINEERS	PALMDALE	LOS ANGELES C	TR	СА
Case, Lowe & Hart, Inc. 2484 Washington Blvv Suite 510 Ogden, Utah 84401-2346 801.399.5821 www.clhae.com	rd. REVIEWED BY			A
	ART GAPASIN PROJECT ENG	NEER	DARYL KITCHEN MGR. ENGINEERING - LA	
	DRAWN	KDL ISSUED BY KDL ENGINEERING SERVICES KDL ENROLITE/ESS	DATE 02.04.2021 JUN 10043 DRAWING NO F F F	394 REV
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SECTION 087100 - DOOR HARDWARE

PART 1 - GENERAL

1.1 SUMMARY

- A. Section Includes:
 - 1. Mechanical door hardware for the following:
 - a. Swinging doors.
 - 2. Cylinders for door hardware specified in other Sections.
 - 3. Electrified door hardware.

1.2 PREINSTALLATION MEETINGS

- A. Preinstallation Conference: Conduct conference at Project site.
- B. Keying Conference: Conduct conference at Project site.

1.3 ACTION SUBMITTALS

- A. Product Data: For each type of product.
- B. Door hardware schedule.
- C. Provide samples: For all exposed door hardware.
- D. Keying schedule.

1.4 INFORMATIONAL SUBMITTALS

- A. Sample warranty.
- 1.5 CLOSEOUT SUBMITTALS
 - A. Maintenance data.

1.6 QUALITY ASSURANCE

A. Installer Qualifications: Supplier of products and an employer of workers trained and approved by product manufacturers and of an Architectural Hardware Consultant who is available during

the course of the Work to consult Contractor, Architect, and Owner about door hardware and keying.

- 1. Scheduling Responsibility: Preparation of door hardware and keying schedule.
- B. Architectural Hardware Consultant Qualifications: A person who is experienced in providing consulting services for door hardware installations that are comparable in material, design, and extent to that indicated for this Project and who is currently certified by DHI as an Architectural Hardware Consultant (AHC).

1.7 WARRANTY

- A. Special Warranty: Manufacturer agrees to repair or replace components of door hardware that fail in materials or workmanship within specified warranty period.
 - 1. Warranty Period: Three years from date of Substantial Completion unless otherwise indicated below:
 - a. Manual Closers: 10 years from date of Substantial Completion.

PART 2 - PRODUCTS

2.1 PERFORMANCE REQUIREMENTS

- A. Fire-Rated Door Assemblies: Where fire-rated doors are indicated, provide door hardware complying with NFPA 80 that is listed and labeled by a qualified testing agency, for fire-protection ratings indicated, based on testing at positive pressure according to NFPA 252 or UL 10C.
- B. Means of Egress Doors: Latches do not require more than 15 lbf (67 N) to release the latch. Locks do not require use of a key, tool, or special knowledge for operation.
- C. Accessibility Requirements: For door hardware on doors in an accessible route, comply with the ABA standards of the Federal agency having jurisdiction.

2.2 HINGES

- A. Hinges: BHMA A156.1. Provide template-produced hinges for hinges installed on hollow-metal doors and hollow-metal frames.
- B. Electrified Antifriction-Bearing Hinges: Full-mortise mounting.
 - 1. Bearing Material: Manufacturer's standard antifriction bearing.
 - 2. Grade: 1 (heavy weight).

2.3 MECHANICAL LOCKS AND LATCHES

- A. Lock Functions: As indicated in door hardware schedule.
- B. Lock Throw: Comply with testing requirements for length of bolts required for labeled fire doors, and as follows:
 - 1. Bored Locks: Minimum 1/2-inch (13-mm) latchbolt throw.
 - 2. Mortise Locks: Minimum 3/4-inch (19-mm) latchbolt throw.
 - 3. Deadbolts: Minimum 1-inch (25-mm) bolt throw.
- C. Lock Backset: 2-3/4 inches (70 mm) unless otherwise indicated.
- D. Lock Trim:
 - 1. Description: As indicated on Drawings.
 - 2. Levers: Cast.
 - 3. Escutcheons (Roses): Cast.
 - 4. Dummy Trim: Match lever lock trim and escutcheons.
- E. Strikes: Provide manufacturer's standard strike for each lock bolt or latchbolt complying with requirements indicated for applicable lock or latch and with strike box and curved lip extended to protect frame; finished to match lock or latch.
 - 1. Flat-Lip Strikes: For locks with three-piece antifriction latchbolts, as recommended by manufacturer.
- F. Bored Locks: BHMA A156.2; Grade 1; Series 4000.
- G. Mortise Locks: BHMA A156.13; Operational Grade 1; stamped steel case with steel or brass parts; Series 1000.

2.4 AUXILIARY LOCKS

- A. Bored Auxiliary Locks: BHMA A156.36: Grade 1; with strike that suits frame.
- B. Mortise Auxiliary Locks: BHMA A156.36; Grade 1; with strike that suits frame.
- C. Narrow Stile Auxiliary Locks: BHMA A156.36; Grade 1; with strike that suits frame.

2.5 ELECTRIC STRIKES

A. Electric Strikes: BHMA A156.31; Grade 1; with faceplate to suit lock and frame.

2.6 SURFACE BOLTS

A. Surface Bolts: BHMA A156.16.

2.7 MANUAL FLUSH BOLTS

A. Manual Flush Bolts: BHMA A156.16; minimum 3/4-inch (19-mm) throw; designed for mortising into door edge.

2.8 LOCK CYLINDERS

- A. Provide construction cores and keying during the construction period. Construction, control and operating key and cores shall not be part of the FAA's permanent keying system. Furnish permanent cores and keys for FAA.
- B. Cylinders shall be: Best CoreMax Core to receive type X key: 1CX7XC11626.
- C. Coordinate with FAA installation of interchangeable cores by contractor in locksets at completion of installation deliver keysets back to COR. COR will test locksets and keying to ensure proper installation. Contractor shall perform necessary corrections as directed by COR.
- D. Metals: Construct lock cylinder parts from brass or bronze, stainless steel, or nickel silver.
- E. Construction Cores: Provide construction cores that are replaceable by permanent cores. Provide 10 construction master keys.

2.9 KEYING

- A. Keying System: Factory registered, complying with guidelines in BHMA A156.28, appendix. Incorporate decisions made in keying conference.
 - 1. No Master Key System: Only change keys operate cylinder.
 - 2. Master Key System: Change keys and a master key operate cylinders.
 - 3. Grand Master Key System: Change keys, a master key, and a grand master key operate cylinder.
 - 4. Great-Grand Master Key System: Change keys, a master key, a grand master key, and a great-grand master key operate cylinders.
 - 5. Existing System:
 - a. Master key or grand master key locks to Owner's existing system.
 - b. Re-key Owner's existing master key system into new keying system.
 - 6. Keyed Alike: Key all cylinders to same change key.
- B. Keys: Brass.

- 1. Stamping: Permanently inscribe each key with a visual key control number and include the following notation:
 - a. Notation: Information to be furnished by Owner.
- 2. Stamping: Permanently inscribe each key with a visual key control number and include the following notation:

2.10 ACCESSORIES FOR PAIRS OF DOORS

- A. Coordinators: BHMA A156.3; consisting of active-leaf, hold-open lever and inactive-leaf release trigger; fabricated from steel with nylon-coated strike plates; with built-in, adjustable safety release; and with internal override.
- B. Carry-Open Bars: BHMA A156.3; prevent the inactive leaf from opening before the active leaf; provide polished brass or bronze carry-open bars with strike plate for inactive leaves of pairs of doors unless automatic or self-latching bolts are used.
- C. Astragals: BHMA A156.22.

2.11 SURFACE CLOSERS

A. Surface Closers: BHMA A156.4; rack-and-pinion hydraulic type with adjustable sweep and latch speeds controlled by key-operated valves and forged-steel main arm. Comply with manufacturer's written instructions for size of door closers depending on size of door, exposure to weather, and anticipated frequency of use. Provide factory-sized closers, adjustable to meet field conditions and requirements for opening force.

2.12 MECHANICAL STOPS AND HOLDERS

A. Wall- and Floor-Mounted Stops: BHMA A156.16.

2.13 DOOR GASKETING

- A. Door Gasketing: BHMA A156.22; with resilient or flexible seal strips that are easily replaceable and readily available from stocks maintained by manufacturer.
- B. Maximum Air Leakage: When tested according to ASTM E283 with tested pressure differential of 0.3-inch wg (75 Pa), as follows:
 - 1. Smoke-Rated Gasketing: 0.3 cfm/sq. ft. (3 cu. m per minute/sq. m) of door opening.
 - 2. Gasketing on Single Doors: 0.3 cfm/sq. ft. (3 cu. m per minute/sq. m) of door opening.
 - 3. Gasketing on Double Doors: 0.50 cfm per ft. (0.000774 cu.) m/s per m) of door opening.

2.14 THRESHOLDS

A. Thresholds: BHMA A156.21; fabricated to full width of opening indicated.

2.15 AUXILIARY DOOR HARDWARE

A. Auxiliary Hardware: BHMA A156.16.

2.16 FINISHES

A. Provide finishes complying with BHMA A156.18 as indicated in door hardware schedule.

PART 3 - EXECUTION

3.1 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.
 - 1. Standard Steel Doors and Frames: ANSI/SDI A250.8.
 - 2. Custom Steel Doors and Frames: HMMA 831.
 - 3. Wood Doors: DHI's "Recommended Locations for Architectural Hardware for Wood Flush Doors."
- B. Install each door hardware item to comply with manufacturer's written instructions. Where cutting and fitting are required to install door hardware onto or into surfaces that are later to be painted or finished in another way, coordinate removal, storage, and reinstallation of surface protective trim units with finishing work. Do not install surface-mounted items until finishes have been completed on substrates involved.
- C. Hinges: Install types and in quantities indicated in door hardware schedule, but not fewer than the number recommended by manufacturer for application indicated or one hinge for every 30 inches (750 mm) of door height, whichever is more stringent, unless other equivalent means of support for door, such as spring hinges or pivots, are provided.
- D. Lock Cylinders: Install construction cores to secure building and areas during construction period.
 - 1. Replace construction cores with permanent cores as directed by Owner.
 - 2. Furnish permanent cores to Owner for installation.
- E. 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 will impede traffic.
- F. Perimeter Gasketing: Apply to head and jamb, forming seal between door and frame.
 - 1. Do not notch perimeter gasketing to install other surface-applied hardware.

- G. Meeting Stile Gasketing: Fasten to meeting stiles, forming seal when doors are closed.
- H. Door Bottoms: Apply to bottom of door, forming seal with threshold when door is closed.

3.2 ADJUSTING

A. Adjust and check each operating item of door hardware and each door to ensure proper operation or function of every unit. Replace units that cannot be adjusted to operate as intended. Adjust door control devices to compensate for final operation of heating and ventilating equipment and to comply with referenced accessibility requirements.

3.3 Door Hardware Groups

А.	HS-1 I	Doors –51B						
	1.	Hinges	BB1168 4.5 x 4.5 NRP		26D	HA	١G	
	2.	Thru-Wire Hinge	BB1168 4.5 x 4.5 ETW-8	26E)	HAG		
	3.	Flushbolt	282D-12"		626		HAC	í
	4.	Dustproof Strike	280X		626		HAC	í
	5.	Storage Lockset	45H7D 15H		630		BES	
	6.	Electric Strike	6223 FSE 24VDC	630		VC	DN	
	7.	Surface Closer	4111 Del Scush			689		LCN
	8.	Sound Seals	(4) S88,(2) 303AS			PE	М	
	9.	Sound Seals	(2) \$44, (2) \$88, (2) \$773			PE	М	
	10.	Sound Seals	(2) ACP112, (2) S44			PE	М	
	11.	Threshold	2009APK			AL		PEM
B.	HS-1A	A Doors –51A						
	1.	Hinges	BB1168 4.5 x 4.5 NRP		26D	HA	١G	
	2.	Thru-Wire Hinge	BB1168 4.5 x 4.5 ETW-8	26E)	HAG		
	3.	Dustproof Strike	280X		626		HAC	í
	4.	Storage Lockset	45H7D 15H		630		BES	
	5.	Electric Strike	6223 FSE 24VDC	630		VC)N	
	6.	Surface Closer	4111 Del Scush			689		LCN
	7.	Sound Seal	S44/S773/S88				PEM	[
	8.	Sound Seal	2 rows \$771				PEM	[
	9.	Threshold	2009APK			AL		PEM
C	HS_2 I	Doors-51M & 51N	۵					
с.	1	Hinges	BB1168 4 5 x 4 5 NRP		26D	HA	AG	
	2	Entry Lockset	93K7AB-15D	630	200	BE	S	
	3	Wall Stop	232W	050		32D	HAC	Ì
	4	Flushbolt	282D-12"		626	520	HAC	ì
	5	Sound Seal	S44/S773/S88		020		PEM	ſ
	6	Sound Seal	2 rows \$771				PEM	ſ
	0. 7.	Threshold	2009APK			AL	1 1210	PEM
D.	HS-2A	Doors-51M B, 51N	N B					
	1.	Hinges	BB1168 4.5 x 4.5 NRP		26D	HA	١G	

RECONFIGURE M1 ROOM LOS ANGELES ARTCC, PALMDALE, CALIFORNIA

2.	Entry Lockset	93K7AB-15D	630	B	ES
3.	Wall Stop	232W		32D	HAG
4.	Sound Seal	S44/S773/S88			PEM
5.	Sound Seal	2 rows S771			PEM
6.	Threshold	2009APK		AL	PEM

E.	HS-3	Doors- 51A A, 51D	A, 51E A, 51F A, 51G A, 51H A, 5	51J A, 51K A	A, 51L A	<u> </u>
	1.	Hinges	BB1168 4.5 x 4.5 NRP	26	D H	IAG
	2.	Entry Lockset	93K7AB-15D	626	E	BES
	3.	Wall Stop	232W		32D	HAG
	4.	Coat Hook	957P		26D	HAG
	5.	Sound Seal	S44/S773/S88			PEM
	6.	Sound Seal	2 rows S771			PEM
	7.	Threshold	2009APK		AL	PEM
F.	HS-4	Doors- 511 A, 511 E	5			
	1.	Hinges	BB1168 4.5 x 4.5 NRP	26	D H	IAG
	2.	Entry Lockset	93K7AB-15D	630	E	BES
	3.	Wall Stop	232W		32D	HAG
	4.	Flushbolt	282D-12"	62	.6	HAG
	5.	Sound Seal	S44/S773/S88			PEM
	6.	Sound Seal	2 rows S771			PEM
	7.	Threshold	2009APK		AL	PEM
G.	HS-5	Doors- 51B A				
	1.	Hinges	BB1168 4.5 x 4.5 NRP	26	D H	IAG
	2.	Storage Lockset	93K7D-15D	63	0	BES
	3.	Wall Stop	232W		32D	HAG
	4.	Flushbolt	282D-12"	62	6	HAG

END OF SECTION 087100



VANCOUVER, BC CANADA PH 877.535.7888

SEAL INSTALLATION DIAGRAM (SOUND SEAL SYSTEM 6)



Effective Date: MARCH 2020 rev.02 SOUND SEAL SYSTEM 13 - EXIT DEVICE (STC49) SYSTEM DETAIL OF AN ACOUSTICAL SEAL FOR DOOR & FRAME WITH ASTRAGAL VERTICAL ROD S88/S773 303AS/2 S88/2 ACP112 CORNER PAD \$88/2 S44 303AS/2 HEADER/JAMB VIEW VIEW OF FRAME AND DOOR LIST OF MATERIALS PERIMETER INSTALL ORDER ITEMS 2009APK 1 S44 S773 2 303AS MEETING STYLE - BOTH SIDES S88 MEETING STYLE - 4 ROWS 3 S88 4 **S88 JAMBS & HEADER** 5 S773 JAMBS & HEADER S44 FRAME RABBIT CLOSE TO DOOR FACE 6 ACP112 CORNER PADS 7 3/8 2009APK [10] MAX.

DO NOT SCALE

VENTURA, CA USA PH 800.283.9988 \sim